# Astrodienst Ephemeris Tables

## from the year 1650 for 50 years

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris

Code D5EPX

Astrodienst AG, Dammstr. 23, CH-8702 Zollikon / Zürich, www.astro.com / order@astro.com

# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## JANUARY 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 42 54 | 10♑51'32 | 20♐31 | 19♐49 | 11♐47 | 3♒25 | 5♏27 | 25°R43 | 15♐16 | 15♐37 | 9°R33 | 26°R 3 | 24♉23 | 1♊59 | 1°R53 | S 1 |
| S 2 | 6 46 50 | 11°52'44 | 5♑28 | 21° 8 | 13° 2 | 4°13 | 5°36 | 25♊38 | 15°19 | 15°39 | 9♊32 | 25♉59 | 24°20 | 2° 5 | 1♍51 | S 2 |
| M 3 | 6 50 47 | 12°53'55 | 20°19 | 22°28 | 14°16 | 5° 0 | 5°44 | 25°34 | 15°23 | 15°41 | 9°31 | 25°52 | 24°17 | 2°12 | 1°49 | M 3 |
| T 4 | 6 54 43 | 13°55'07 | 4♒55 | 23°50 | 15°31 | 5°47 | 5°52 | 25°29 | 15°26 | 15°43 | 9°30 | 25°44 | 24°14 | 2°19 | 1°47 | T 4 |
| W 5 | 6 58 40 | 14°56'17 | 19°10 | 25°12 | 16°45 | 6°35 | 6° 1 | 25°24 | 15°29 | 15°45 | 9°30 | 25°36 | 24°10 | 2°25 | 1°44 | W 5 |
| T 6 | 7 2 37 | 15°57'28 | 2♓57 | 26°36 | 18° 0 | 7°22 | 6° 9 | 25°20 | 15°33 | 15°47 | 9°29 | 25°28 | 24° 7 | 2°32 | 1°42 | T 6 |
| F 7 | 7 6 33 | 16°58'38 | 16°17 | 28° 0 | 19°14 | 8° 9 | 6°17 | 25°16 | 15°36 | 15°49 | 9°28 | 25°22 | 24° 4 | 2°39 | 1°40 | F 7 |
| S 8 | 7 10 30 | 17°59'47 | 29°11 | 29°25 | 20°29 | 8°57 | 6°24 | 25°11 | 15°39 | 15°51 | 9°27 | 25°18 | 24° 1 | 2°45 | 1°37 | S 8 |
| S 9 | 7 14 26 | 19° 0'55 | 11♈41 | 0♑51 | 21°44 | 9°44 | 6°32 | 25° 7 | 15°42 | 15°53 | 9°26 | 25°16 | 23°58 | 2°52 | 1°35 | S 9 |
| M10 | 7 18 23 | 20° 2'02 | 23°52 | 2°18 | 22°58 | 10°31 | 6°39 | 25° 3 | 15°46 | 15°55 | 9°25 | 25°D16 | 23°54 | 2°59 | 1°32 | M10 |
| T 11 | 7 22 19 | 21° 3'09 | 5♉49 | 3°45 | 24°13 | 11°19 | 6°47 | 24°58 | 15°49 | 15°57 | 9°24 | 25°17 | 23°51 | 3° 5 | 1°29 | T 11 |
| W12 | 7 26 16 | 22° 4'15 | 17°38 | 5°14 | 25°28 | 12° 6 | 6°54 | 24°54 | 15°52 | 15°59 | 9°24 | 25°18 | 23°48 | 3°12 | 1°26 | W12 |
| T 13 | 7 30 12 | 23° 5'21 | 29°25 | 6°42 | 26°42 | 12°54 | 7° 1 | 24°50 | 15°55 | 16° 1 | 9°23 | 25°R18 | 23°45 | 3°19 | 1°23 | T 13 |
| F 14 | 7 34 9 | 24° 6'25 | 11♊13 | 8°12 | 27°57 | 13°41 | 7° 8 | 24°46 | 15°58 | 16° 3 | 9°22 | 25°16 | 23°42 | 3°25 | 1°20 | F 14 |
| S 15 | 7 38 6 | 25° 7'29 | 23° 7 | 9°42 | 29°11 | 14°29 | 7°15 | 24°42 | 16° 1 | 16° 5 | 9°21 | 25°12 | 23°39 | 3°32 | 1°17 | S 15 |
| S 16 | 7 42 2 | 26° 8'32 | 5♋10 | 11°12 | 0♑26 | 15°16 | 7°21 | 24°38 | 16° 4 | 16° 7 | 9°20 | 25° 6 | 23°35 | 3°39 | 1°14 | S 16 |
| M17 | 7 45 59 | 27° 9'34 | 17°24 | 12°44 | 1°41 | 16° 3 | 7°28 | 24°34 | 16° 7 | 16° 9 | 9°20 | 24°57 | 23°32 | 3°45 | 1°11 | M17 |
| T 18 | 7 49 55 | 28°10'35 | 29°51 | 14°16 | 2°55 | 16°51 | 7°34 | 24°31 | 16°10 | 16°10 | 9°19 | 24°45 | 23°29 | 3°52 | 1° 7 | T 18 |
| W19 | 7 53 52 | 29°11'36 | 12♌30 | 15°48 | 4°10 | 17°38 | 7°41 | 24°27 | 16°13 | 16°12 | 9°18 | 24°33 | 23°26 | 3°58 | 1° 4 | W19 |
| T 20 | 7 57 48 | 0♒12'36 | 25°23 | 17°21 | 5°25 | 18°26 | 7°47 | 24°24 | 16°16 | 16°14 | 9°18 | 24°21 | 23°23 | 4° 5 | 1° 0 | T 20 |
| F 21 | 8 1 45 | 1°13'35 | 8♍27 | 18°55 | 6°40 | 19°13 | 7°53 | 24°20 | 16°19 | 16°16 | 9°17 | 24°10 | 23°20 | 4°12 | 0°57 | F 21 |
| S 22 | 8 5 41 | 2°14'33 | 21°43 | 20°29 | 7°54 | 20° 0 | 7°58 | 24°17 | 16°22 | 16°17 | 9°16 | 24° 2 | 23°16 | 4°18 | 0°53 | S 22 |
| S 23 | 8 9 38 | 3°15'30 | 5♎ 9 | 22° 4 | 9° 9 | 20°48 | 8° 4 | 24°13 | 16°24 | 16°19 | 9°16 | 23°56 | 23°13 | 4°25 | 0°49 | S 23 |
| M24 | 8 13 35 | 4°16'27 | 18°46 | 23°40 | 10°24 | 21°35 | 8° 9 | 24°10 | 16°27 | 16°21 | 9°15 | 23°53 | 23°10 | 4°32 | 0°45 | M24 |
| T 25 | 8 17 31 | 5°17'23 | 2♏35 | 25°16 | 11°38 | 22°23 | 8°15 | 24° 7 | 16°30 | 16°22 | 9°14 | 23°D52 | 23° 7 | 4°38 | 0°41 | T 25 |
| W26 | 8 21 28 | 6°18'18 | 16°35 | 26°53 | 12°53 | 23°10 | 8°20 | 24° 4 | 16°33 | 16°24 | 9°14 | 23°R52 | 23° 4 | 4°45 | 0°37 | W26 |
| T 27 | 8 25 24 | 7°19'13 | 0♐46 | 28°31 | 14° 8 | 23°58 | 8°25 | 24° 1 | 16°35 | 16°26 | 9°13 | 23°52 | 23° 0 | 4°52 | 0°33 | T 27 |
| F 28 | 8 29 21 | 8°20'07 | 15° 8 | 0♒ 9 | 15°23 | 24°45 | 8°30 | 23°58 | 16°38 | 16°27 | 9°13 | 23°50 | 22°57 | 4°58 | 0°29 | F 28 |
| S 29 | 8 33 17 | 9°21'00 | 29°37 | 1°49 | 16°38 | 25°32 | 8°34 | 23°56 | 16°41 | 16°29 | 9°12 | 23°46 | 22°54 | 5° 5 | 0°25 | S 29 |
| S 30 | 8 37 14 | 10°21'52 | 14♑10 | 3°28 | 17°52 | 26°20 | 8°39 | 23°53 | 16°43 | 16°30 | 9°12 | 23°39 | 22°51 | 5°12 | 0°21 | S 30 |
| M31 | 8 41 11 | 11♒22'44 | 28♑39 | 5♒ 9 | 19♑ 7 | 27♒ 7 | 8♏43 | 23♊50 | 16♐46 | 16♐32 | 9♊11 | 23♉30 | 22♉48 | 5♊18 | 0♍16 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 2 | 25s17 | 2s 8 | 22s14 | 0n52 | 21s 4 | 1n12 | 20s32 | 1s 9 | 12s15 | 1n11 | 22n19 | 1s 6 | 22s42 | 0s 1 | 21s19 | 1n24 | 11n43 | 10s20 | 19n18 | 18n54 | 21n16 | 4n45 | 6s30 |
| S 2 | 22 57 | 26 39 | 3 17 | 22 28 | 0 44 | 21 16 | 1 9 | 20 21 | 1 8 | 12 18 | 1 11 | 22 19 | 1 6 | 22 42 | 0 1 | 21 19 | 1 24 | 11 43 | 10 20 | 19 17 | 18 53 | 21 18 | 4 45 | 6 31 |
| M 3 | 22 52 | 26 5 | 4 11 | 22 41 | 0 35 | 21 27 | 1 7 | 20 10 | 1 8 | 12 21 | 1 11 | 22 19 | 1 6 | 22 42 | 0 1 | 21 19 | 1 24 | 11 43 | 10 19 | 19 16 | 18 53 | 21 20 | 4 45 | 6 31 |
| T 4 | 22 45 | 23 43 | 4 48 | 22 53 | 0 27 | 21 38 | 1 4 | 19 58 | 1 8 | 12 23 | 1 11 | 22 19 | 1 6 | 22 43 | 0 1 | 21 20 | 1 24 | 11 43 | 10 19 | 19 14 | 18 52 | 21 23 | 4 46 | 6 32 |
| W 5 | 22 39 | 19 56 | 5 6 | 23 5 | 0 19 | 21 48 | 1 2 | 19 46 | 1 8 | 12 26 | 1 11 | 22 19 | 1 6 | 22 43 | 0 1 | 21 20 | 1 24 | 11 43 | 10 19 | 19 12 | 18 51 | 21 25 | 4 46 | 6 32 |
| T 6 | 22 32 | 15 10 | 5 5 | 23 16 | 0 11 | 21 57 | 0 59 | 19 34 | 1 8 | 12 28 | 1 11 | 22 19 | 1 6 | 22 43 | 0 1 | 21 20 | 1 24 | 11 43 | 10 19 | 19 10 | 18 50 | 21 27 | 4 46 | 6 32 |
| F 7 | 22 24 | 9 50 | 4 47 | 23 25 | 0 3 | 22 6 | 0 57 | 19 21 | 1 8 | 12 31 | 1 12 | 22 19 | 1 6 | 22 44 | 0 1 | 21 20 | 1 24 | 11 43 | 10 19 | 19 9 | 18 50 | 21 29 | 4 47 | 6 33 |
| S 8 | 22 16 | 4 14 | 4 16 | 23 34 | 0s 5 | 22 14 | 0 54 | 19 9 | 1 8 | 12 33 | 1 12 | 22 19 | 1 5 | 22 44 | 0 1 | 21 20 | 1 24 | 11 43 | 10 18 | 19 8 | 18 49 | 21 31 | 4 47 | 6 33 |
| S 9 | 22 8 | 1n22 | 3 33 | 23 41 | 0 12 | 22 22 | 0 52 | 18 56 | 1 7 | 12 36 | 1 12 | 22 19 | 1 5 | 22 45 | 0 1 | 21 21 | 1 24 | 11 43 | 10 18 | 19 7 | 18 48 | 21 33 | 4 48 | 6 34 |
| M10 | 21 59 | 6 47 | 2 41 | 23 47 | 0 19 | 22 29 | 0 49 | 18 43 | 1 7 | 12 38 | 1 12 | 22 19 | 1 5 | 22 45 | 0 1 | 21 21 | 1 24 | 11 43 | 10 18 | 19 7 | 18 47 | 21 36 | 4 49 | 6 34 |
| T 11 | 21 50 | 11 52 | 1 43 | 23 53 | 0 27 | 22 35 | 0 46 | 18 30 | 1 7 | 12 40 | 1 12 | 22 19 | 1 5 | 22 45 | 0 2 | 21 21 | 1 24 | 11 43 | 10 18 | 19 7 | 18 46 | 21 38 | 4 49 | 6 34 |
| W12 | 21 40 | 16 28 | 0 41 | 23 57 | 0 34 | 22 41 | 0 44 | 18 16 | 1 7 | 12 42 | 1 12 | 22 19 | 1 5 | 22 46 | 0 2 | 21 21 | 1 24 | 11 43 | 10 18 | 19 7 | 18 46 | 21 40 | 4 50 | 6 35 |
| T 13 | 21 30 | 20 25 | 0n22 | 23 59 | 0 40 | 22 46 | 0 41 | 18 3 | 1 7 | 12 44 | 1 12 | 22 19 | 1 5 | 22 46 | 0 2 | 21 21 | 1 24 | 11 43 | 10 18 | 19 7 | 18 45 | 21 42 | 4 51 | 6 35 |
| F 14 | 21 20 | 23 33 | 1 24 | 24 1 | 0 47 | 22 50 | 0 38 | 17 49 | 1 7 | 12 47 | 1 13 | 22 19 | 1 4 | 22 46 | 0 2 | 21 21 | 1 24 | 11 43 | 10 17 | 19 7 | 18 44 | 21 44 | 4 51 | 6 35 |
| S 15 | 21 9 | 25 41 | 2 23 | 24 1 | 0 54 | 22 53 | 0 36 | 17 35 | 1 6 | 12 49 | 1 13 | 22 19 | 1 4 | 22 47 | 0 2 | 21 22 | 1 24 | 11 43 | 10 17 | 19 6 | 18 43 | 21 46 | 4 52 | 6 36 |
| S 16 | 20 58 | 26 39 | 3 16 | 24 0 | 1 0 | 22 56 | 0 33 | 17 21 | 1 6 | 12 51 | 1 13 | 22 19 | 1 4 | 22 47 | 0 2 | 21 22 | 1 24 | 11 43 | 10 17 | 19 5 | 18 42 | 21 48 | 4 53 | 6 36 |
| M17 | 20 46 | 26 20 | 4 1 | 23 58 | 1 6 | 22 58 | 0 30 | 17 6 | 1 6 | 12 53 | 1 13 | 22 19 | 1 4 | 22 47 | 0 2 | 21 22 | 1 24 | 11 44 | 10 17 | 19 2 | 18 42 | 21 50 | 4 54 | 6 36 |
| T 18 | 20 34 | 24 42 | 4 35 | 23 54 | 1 11 | 23 0 | 0 27 | 16 52 | 1 6 | 12 54 | 1 13 | 22 19 | 1 4 | 22 48 | 0 2 | 21 22 | 1 24 | 11 44 | 10 17 | 19 0 | 18 41 | 21 53 | 4 55 | 6 37 |
| W19 | 20 22 | 21 49 | 4 56 | 23 49 | 1 17 | 23 1 | 0 25 | 16 37 | 1 5 | 12 56 | 1 14 | 22 19 | 1 4 | 22 48 | 0 2 | 21 22 | 1 24 | 11 44 | 10 16 | 18 57 | 18 40 | 21 55 | 4 56 | 6 37 |
| T 20 | 20 9 | 17 50 | 5 3 | 23 43 | 1 22 | 23 1 | 0 22 | 16 22 | 1 5 | 12 58 | 1 14 | 22 19 | 1 3 | 22 48 | 0 2 | 21 22 | 1 24 | 11 44 | 10 16 | 18 54 | 18 39 | 21 57 | 4 57 | 6 37 |
| F 21 | 19 56 | 12 57 | 4 53 | 23 35 | 1 27 | 23 0 | 0 19 | 16 7 | 1 5 | 13 0 | 1 14 | 22 19 | 1 3 | 22 48 | 0 2 | 21 23 | 1 24 | 11 44 | 10 16 | 18 51 | 18 38 | 21 59 | 4 58 | 6 37 |
| S 22 | 19 42 | 7 24 | 4 28 | 23 26 | 1 32 | 22 59 | 0 16 | 15 52 | 1 5 | 13 2 | 1 14 | 22 19 | 1 3 | 22 49 | 0 2 | 21 23 | 1 24 | 11 44 | 10 16 | 18 49 | 18 38 | 22 1 | 4 59 | 6 38 |
| S 23 | 19 28 | 1 27 | 3 48 | 23 16 | 1 36 | 22 56 | 0 14 | 15 36 | 1 4 | 13 3 | 1 14 | 22 19 | 1 3 | 22 49 | 0 2 | 21 23 | 1 24 | 11 44 | 10 15 | 18 48 | 18 37 | 22 3 | 5 0 | 6 38 |
| M24 | 19 14 | 4s40 | 2 55 | 23 4 | 1 41 | 22 54 | 0 11 | 15 21 | 1 4 | 13 5 | 1 14 | 22 19 | 1 3 | 22 49 | 0 2 | 21 23 | 1 24 | 11 44 | 10 15 | 18 47 | 18 36 | 22 5 | 5 1 | 6 38 |
| T 25 | 18 59 | 10 40 | 1 51 | 22 50 | 1 44 | 22 50 | 0 8 | 15 5 | 1 4 | 13 6 | 1 15 | 22 19 | 1 3 | 22 50 | 0 2 | 21 23 | 1 25 | 11 45 | 10 15 | 18 47 | 18 35 | 22 7 | 5 2 | 6 38 |
| W26 | 18 44 | 16 13 | 0 39 | 22 35 | 1 48 | 22 46 | 0 6 | 14 49 | 1 4 | 13 8 | 1 15 | 22 19 | 1 2 | 22 50 | 0 2 | 21 23 | 1 25 | 11 45 | 10 15 | 18 47 | 18 34 | 22 9 | 5 3 | 6 38 |
| T 27 | 18 29 | 20 57 | 0s37 | 22 19 | 1 51 | 22 41 | 0 3 | 14 33 | 1 3 | 13 9 | 1 15 | 22 19 | 1 2 | 22 50 | 0 2 | 21 23 | 1 25 | 11 45 | 10 15 | 18 47 | 18 34 | 22 11 | 5 5 | 6 39 |
| F 28 | 18 13 | 24 29 | 1 50 | 22 1 | 1 54 | 22 36 | 0 0 | 14 17 | 1 3 | 13 11 | 1 15 | 22 19 | 1 2 | 22 50 | 0 2 | 21 24 | 1 25 | 11 45 | 10 14 | 18 46 | 18 33 | 22 13 | 5 6 | 6 39 |
| S 29 | 17 57 | 26 26 | 2 57 | 21 42 | 1 57 | 22 29 | 0s 3 | 14 1 | 1 3 | 13 12 | 1 15 | 22 19 | 1 2 | 22 51 | 0 2 | 21 24 | 1 25 | 11 45 | 10 14 | 18 45 | 18 32 | 22 16 | 5 7 | 6 39 |
| S 30 | 17 41 | 26 36 | 3 53 | 21 21 | 1 59 | 22 23 | 0 5 | 13 45 | 1 2 | 13 13 | 1 16 | 22 19 | 1 2 | 22 51 | 0 2 | 21 24 | 1 25 | 11 45 | 10 14 | 18 43 | 18 31 | 22 18 | 5 9 | 6 39 |
| M31 | 17s24 | 24s56 | 4s33 | 20s58 | 2s 1 | 22s15 | 0s 8 | 13s28 | 1s 2 | 13s14 | 1n16 | 22n19 | 1s 1 | 22s51 | 0s 2 | 21s24 | 1n25 | 11n45 | 10s14 | 18n41 | 18n30 | 22n20 | 5n10 | 6s39 |

Julian Day Number = 2323710.5, Delta T = 43.31 sec
Ecliptic obliquity = 23°29'10, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'18, Lahiri = 18°58'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## FEBRUARY 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 45 7 | 12♒23'34 | 12♒59 | 6♒51 | 20♑22 | 27♒55 | 8♏47 | 23°R48 | 16♐48 | 16♐33 | 9°R11 | 23°R18 | 22♉45 | 5♊25 | 0°R12 | T 1 |
| W 2 | 8 49 4 | 13°24'22 | 27° 3 | 8°33 | 21°37 | 28°42 | 8°51 | 23♊46 | 16°50 | 16°35 | 9♊10 | 23♉ 5 | 22°41 | 5°32 | 0♍ 8 | W 2 |
| T 3 | 8 53 0 | 14°25'09 | 10♓46 | 10°16 | 22°51 | 29°29 | 8°55 | 23°43 | 16°53 | 16°36 | 9°10 | 22°53 | 22°38 | 5°38 | 0° 3 | T 3 |
| F 4 | 8 56 57 | 15°25'55 | 24° 5 | 11°59 | 24° 6 | 0♓17 | 8°58 | 23°41 | 16°55 | 16°38 | 9°10 | 22°43 | 22°35 | 5°45 | 29♌59 | F 4 |
| S 5 | 9 0 53 | 16°26'39 | 7♈ 0 | 13°44 | 25°21 | 1° 4 | 9° 2 | 23°39 | 16°57 | 16°39 | 9° 9 | 22°35 | 22°32 | 5°51 | 29°54 | S 5 |
| S 6 | 9 4 50 | 17°27'22 | 19°33 | 15°29 | 26°36 | 1°51 | 9° 5 | 23°37 | 17° 0 | 16°40 | 9° 9 | 22°30 | 22°29 | 5°58 | 29°50 | S 6 |
| M 7 | 9 8 46 | 18°28'03 | 1♉46 | 17°16 | 27°50 | 2°39 | 9° 8 | 23°35 | 17° 2 | 16°42 | 9° 9 | 22°27 | 22°26 | 6° 5 | 29°45 | M 7 |
| T 8 | 9 12 43 | 19°28'42 | 13°45 | 19° 3 | 29° 5 | 3°26 | 9°11 | 23°34 | 17° 4 | 16°43 | 9° 8 | 22°26 | 22°22 | 6°11 | 29°40 | T 8 |
| W 9 | 9 16 39 | 20°29'20 | 25°36 | 20°50 | 0♒20 | 4°13 | 9°14 | 23°32 | 17° 6 | 16°44 | 9° 8 | 22°26 | 22°19 | 6°18 | 29°36 | W 9 |
| T 10 | 9 20 36 | 21°29'56 | 7♊23 | 22°39 | 1°35 | 5° 1 | 9°16 | 23°31 | 17° 8 | 16°45 | 9° 8 | 22°26 | 22°16 | 6°25 | 29°31 | T 10 |
| F 11 | 9 24 33 | 22°30'30 | 19°13 | 24°28 | 2°49 | 5°48 | 9°18 | 23°29 | 17°10 | 16°47 | 9° 8 | 22°24 | 22°13 | 6°31 | 29°26 | F 11 |
| S 12 | 9 28 29 | 23°31'03 | 1♋10 | 26°18 | 4° 4 | 6°35 | 9°21 | 23°28 | 17°12 | 16°48 | 9° 7 | 22°19 | 22°10 | 6°38 | 29°22 | S 12 |
| S 13 | 9 32 26 | 24°31'33 | 13°19 | 28° 9 | 5°19 | 7°22 | 9°23 | 23°27 | 17°14 | 16°49 | 9° 7 | 22°12 | 22° 6 | 6°45 | 29°17 | S 13 |
| M14 | 9 36 22 | 25°32'02 | 25°42 | 0♓ 1 | 6°33 | 8° 9 | 9°24 | 23°26 | 17°16 | 16°50 | 9° 7 | 22° 2 | 22° 3 | 6°51 | 29°12 | M14 |
| T 15 | 9 40 19 | 26°32'30 | 8♌23 | 1°52 | 7°48 | 8°57 | 9°26 | 23°25 | 17°18 | 16°51 | 9° 7 | 21°50 | 22° 0 | 6°58 | 29° 8 | T 15 |
| W16 | 9 44 15 | 27°32'55 | 21°20 | 3°45 | 9° 3 | 9°44 | 9°27 | 23°24 | 17°20 | 16°52 | 9° 7 | 21°37 | 21°57 | 7° 5 | 29° 3 | W16 |
| T 17 | 9 48 12 | 28°33'19 | 4♍35 | 5°37 | 10°18 | 10°31 | 9°29 | 23°23 | 17°22 | 16°53 | 9° 7 | 21°23 | 21°54 | 7°11 | 28°58 | T 17 |
| F 18 | 9 52 9 | 29°33'41 | 18° 3 | 7°30 | 11°32 | 11°18 | 9°30 | 23°23 | 17°23 | 16°54 | 9° 6 | 21°11 | 21°51 | 7°18 | 28°53 | F 18 |
| S 19 | 9 56 5 | 0♓34'01 | 1♎43 | 9°23 | 12°47 | 12° 5 | 9°31 | 23°22 | 17°25 | 16°55 | 9° 6 | 21° 2 | 21°47 | 7°25 | 28°48 | S 19 |
| S 20 | 10 0 2 | 1°34'20 | 15°32 | 11°16 | 14° 2 | 12°52 | 9°31 | 23°22 | 17°26 | 16°56 | 9° 6 | 20°55 | 21°44 | 7°31 | 28°44 | S 20 |
| M21 | 10 3 58 | 2°34'37 | 29°27 | 13° 8 | 15°16 | 13°39 | 9°32 | 23°21 | 17°28 | 16°57 | 9°D 6 | 20°51 | 21°41 | 7°38 | 28°39 | M21 |
| T 22 | 10 7 55 | 3°34'53 | 13♏27 | 15° 0 | 16°31 | 14°26 | 9°32 | 23°21 | 17°30 | 16°58 | 9° 6 | 20°49 | 21°38 | 7°45 | 28°34 | T 22 |
| W23 | 10 11 51 | 4°35'08 | 27°30 | 16°50 | 17°46 | 15°13 | 9°R32 | 23°D21 | 17°31 | 16°59 | 9° 6 | 20°49 | 21°35 | 7°51 | 28°29 | W23 |
| T 24 | 10 15 48 | 5°35'21 | 11♐35 | 18°39 | 19° 1 | 16° 0 | 9°32 | 23°21 | 17°32 | 16°59 | 9° 6 | 20°49 | 21°32 | 7°58 | 28°25 | T 24 |
| F 25 | 10 19 44 | 6°35'33 | 25°42 | 20°26 | 20°15 | 16°47 | 9°32 | 23°22 | 17°34 | 17° 0 | 9° 6 | 20°48 | 21°28 | 8° 4 | 28°20 | F 25 |
| S 26 | 10 23 41 | 7°35'43 | 9♑50 | 22°11 | 21°30 | 17°34 | 9°31 | 23°22 | 17°35 | 17° 1 | 9° 7 | 20°45 | 21°25 | 8°11 | 28°15 | S 26 |
| S 27 | 10 27 38 | 8°35'51 | 23°56 | 23°54 | 22°45 | 18°21 | 9°31 | 23°22 | 17°36 | 17° 1 | 9° 7 | 20°38 | 21°22 | 8°18 | 28°11 | S 27 |
| M28 | 10 31 34 | 9♓35'58 | 7♒58 | 25♓33 | 23♒59 | 19♓ 8 | 9♏30 | 23♊23 | 17♐38 | 17♐ 2 | 9♊ 7 | 20♉29 | 21♉19 | 8♊24 | 28♌ 6 | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s 7 | 21s40 | 4s56 | 20s34 | 2s 3 | 22s 7 | 0s10 | 13s11 | 1s 2 | 13s15 | 1n16 | 22n19 | 1s 1 | 22s52 | 0s 2 | 21s24 | 1n25 | 11n46 | 10s13 | 18n38 | 18n30 | 22n22 | 5n11 | 6s39 |
| W 2 | 16 50 | 17 13 | 5 0 | 20 9 | 2 4 | 21 58 | 0 13 | 12 55 | 1 1 | 13 16 | 1 16 | 22 19 | 1 1 | 22 52 | 0 2 | 21 24 | 1 25 | 11 46 | 10 13 | 18 35 | 18 29 | 22 24 | 5 13 | 6 39 |
| T 3 | 16 32 | 11 57 | 4 46 | 19 42 | 2 4 | 21 48 | 0 16 | 12 38 | 1 1 | 13 17 | 1 16 | 22 19 | 1 1 | 22 52 | 0 2 | 21 24 | 1 25 | 11 46 | 10 13 | 18 32 | 18 28 | 22 26 | 5 14 | 6 39 |
| F 4 | 16 14 | 6 17 | 4 17 | 19 14 | 2 5 | 21 38 | 0 18 | 12 21 | 1 1 | 13 18 | 1 17 | 22 20 | 1 1 | 22 52 | 0 2 | 21 24 | 1 25 | 11 46 | 10 13 | 18 29 | 18 27 | 22 28 | 5 16 | 6 39 |
| S 5 | 15 56 | 0 31 | 3 36 | 18 44 | 2 5 | 21 27 | 0 21 | 12 3 | 1 0 | 13 19 | 1 17 | 22 20 | 1 0 | 22 52 | 0 2 | 21 24 | 1 25 | 11 46 | 10 12 | 18 27 | 18 26 | 22 30 | 5 17 | 6 39 |
| S 6 | 15 38 | 5n 7 | 2 45 | 18 12 | 2 4 | 21 15 | 0 23 | 11 46 | 1 0 | 13 20 | 1 17 | 22 20 | 1 0 | 22 53 | 0 2 | 21 25 | 1 25 | 11 47 | 10 12 | 18 26 | 18 26 | 22 32 | 5 19 | 6 39 |
| M 7 | 15 19 | 10 26 | 1 47 | 17 39 | 2 3 | 21 3 | 0 26 | 11 29 | 1 0 | 13 21 | 1 17 | 22 20 | 1 0 | 22 53 | 0 2 | 21 25 | 1 25 | 11 47 | 10 12 | 18 25 | 18 25 | 22 34 | 5 20 | 6 39 |
| T 8 | 15 0 | 15 16 | 0 46 | 17 4 | 2 2 | 20 50 | 0 28 | 11 11 | 0 59 | 13 22 | 1 17 | 22 20 | 1 0 | 22 53 | 0 2 | 21 25 | 1 25 | 11 47 | 10 12 | 18 25 | 18 24 | 22 36 | 5 22 | 6 39 |
| W 9 | 14 41 | 19 28 | 0n17 | 16 28 | 2 0 | 20 37 | 0 31 | 10 54 | 0 59 | 13 22 | 1 17 | 22 20 | 1 0 | 22 53 | 0 2 | 21 25 | 1 25 | 11 47 | 10 11 | 18 25 | 18 23 | 22 38 | 5 24 | 6 39 |
| T 10 | 14 22 | 22 52 | 1 18 | 15 50 | 1 57 | 20 23 | 0 33 | 10 36 | 0 59 | 13 23 | 1 18 | 22 20 | 1 0 | 22 54 | 0 2 | 21 25 | 1 25 | 11 47 | 10 11 | 18 25 | 18 22 | 22 40 | 5 25 | 6 39 |
| F 11 | 14 2 | 25 19 | 2 17 | 15 11 | 1 54 | 20 8 | 0 35 | 10 18 | 0 58 | 13 24 | 1 18 | 22 20 | 0 59 | 22 54 | 0 2 | 21 25 | 1 25 | 11 48 | 10 11 | 18 24 | 18 22 | 22 42 | 5 27 | 6 39 |
| S 12 | 13 42 | 26 38 | 3 10 | 14 31 | 1 51 | 19 53 | 0 38 | 10 0 | 0 58 | 13 24 | 1 18 | 22 20 | 0 59 | 22 54 | 0 2 | 21 25 | 1 25 | 11 48 | 10 11 | 18 23 | 18 21 | 22 44 | 5 29 | 6 39 |
| S 13 | 13 22 | 26 43 | 3 55 | 13 48 | 1 47 | 19 37 | 0 40 | 9 43 | 0 57 | 13 25 | 1 18 | 22 21 | 0 59 | 22 54 | 0 2 | 21 25 | 1 25 | 11 48 | 10 10 | 18 21 | 18 20 | 22 46 | 5 30 | 6 39 |
| M14 | 13 2 | 25 27 | 4 30 | 13 5 | 1 42 | 19 21 | 0 42 | 9 25 | 0 57 | 13 25 | 1 18 | 22 21 | 0 59 | 22 54 | 0 2 | 21 25 | 1 25 | 11 48 | 10 10 | 18 19 | 18 19 | 22 48 | 5 32 | 6 39 |
| T 15 | 12 42 | 22 54 | 4 52 | 12 20 | 1 37 | 19 4 | 0 44 | 9 6 | 0 57 | 13 25 | 1 19 | 22 21 | 0 59 | 22 55 | 0 2 | 21 25 | 1 25 | 11 49 | 10 10 | 18 16 | 18 18 | 22 50 | 5 34 | 6 39 |
| W16 | 12 21 | 19 9 | 5 0 | 11 34 | 1 31 | 18 47 | 0 46 | 8 48 | 0 56 | 13 25 | 1 19 | 22 21 | 0 58 | 22 55 | 0 2 | 21 25 | 1 25 | 11 49 | 10 10 | 18 12 | 18 17 | 22 52 | 5 36 | 6 39 |
| T 17 | 12 0 | 14 23 | 4 52 | 10 47 | 1 25 | 18 29 | 0 49 | 8 30 | 0 56 | 13 26 | 1 19 | 22 21 | 0 58 | 22 55 | 0 2 | 21 25 | 1 25 | 11 49 | 10 9 | 18 9 | 18 17 | 22 54 | 5 37 | 6 39 |
| F 18 | 11 39 | 8 51 | 4 28 | 9 58 | 1 17 | 18 10 | 0 51 | 8 12 | 0 55 | 13 26 | 1 19 | 22 21 | 0 58 | 22 55 | 0 2 | 21 25 | 1 25 | 11 49 | 10 9 | 18 6 | 18 16 | 22 56 | 5 39 | 6 38 |
| S 19 | 11 18 | 2 49 | 3 49 | 9 9 | 1 10 | 17 51 | 0 53 | 7 53 | 0 55 | 13 26 | 1 19 | 22 22 | 0 58 | 22 55 | 0 2 | 21 26 | 1 25 | 11 49 | 10 9 | 18 3 | 18 15 | 22 58 | 5 41 | 6 38 |
| S 20 | 10 56 | 3s26 | 2 55 | 8 18 | 1 1 | 17 31 | 0 55 | 7 35 | 0 55 | 13 26 | 1 20 | 22 22 | 0 58 | 22 55 | 0 2 | 21 26 | 1 25 | 11 50 | 10 9 | 18 1 | 18 14 | 22 59 | 5 43 | 6 38 |
| M21 | 10 35 | 9 35 | 1 51 | 7 27 | 0 52 | 17 11 | 0 56 | 7 16 | 0 54 | 13 26 | 1 20 | 22 22 | 0 57 | 22 56 | 0 2 | 21 26 | 1 25 | 11 50 | 10 8 | 18 0 | 18 13 | 23 1 | 5 45 | 6 38 |
| T 22 | 10 13 | 15 17 | 0 39 | 6 35 | 0 43 | 16 51 | 0 58 | 6 58 | 0 54 | 13 26 | 1 20 | 22 22 | 0 57 | 22 56 | 0 2 | 21 26 | 1 26 | 11 50 | 10 8 | 18 0 | 18 12 | 23 3 | 5 46 | 6 38 |
| W23 | 9 51 | 20 13 | 0s35 | 5 42 | 0 32 | 16 30 | 1 0 | 6 39 | 0 53 | 13 26 | 1 20 | 22 22 | 0 57 | 22 56 | 0 2 | 21 26 | 1 26 | 11 51 | 10 8 | 18 0 | 18 12 | 23 5 | 5 48 | 6 37 |
| T 24 | 9 29 | 24 0 | 1 48 | 4 50 | 0 22 | 16 8 | 1 2 | 6 21 | 0 53 | 13 25 | 1 20 | 22 23 | 0 57 | 22 56 | 0 2 | 21 26 | 1 26 | 11 51 | 10 8 | 18 0 | 18 11 | 23 7 | 5 50 | 6 37 |
| F 25 | 9 7 | 26 19 | 2 54 | 3 57 | 0 10 | 15 46 | 1 4 | 6 2 | 0 52 | 13 25 | 1 21 | 22 23 | 0 57 | 22 56 | 0 2 | 21 26 | 1 26 | 11 51 | 10 7 | 17 59 | 18 10 | 23 9 | 5 52 | 6 37 |
| S 26 | 8 44 | 26 56 | 3 49 | 3 5 | 0n 2 | 15 24 | 1 5 | 5 43 | 0 52 | 13 25 | 1 21 | 22 23 | 0 56 | 22 56 | 0 2 | 21 26 | 1 26 | 11 51 | 10 7 | 17 58 | 18 9 | 23 11 | 5 54 | 6 37 |
| S 27 | 8 22 | 25 48 | 4 30 | 2 13 | 0 14 | 15 1 | 1 7 | 5 24 | 0 51 | 13 24 | 1 21 | 22 23 | 0 56 | 22 56 | 0 2 | 21 26 | 1 26 | 11 52 | 10 7 | 17 57 | 18 8 | 23 13 | 5 56 | 6 36 |
| M28 | 7s59 | 23s 3 | 4s55 | 1s22 | 0n27 | 14s38 | 1s 8 | 5s 6 | 0s51 | 13s24 | 1n21 | 22n23 | 0s56 | 22s57 | 0s 2 | 21s26 | 1n26 | 11n52 | 10s 6 | 17n54 | 18n 7 | 23n15 | 5n58 | 6s36 |

Julian Day Number = 2323741.5, Delta T = 43.25 sec
Ecliptic obliquity = 23°29'11, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'23, Lahiri = 18°58'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## MARCH 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 35 31 | 10♓36'03 | 21♒51 | 27♓ 8 | 25♒14 | 19♓54 | 9°R29 | 23♊23 | 17♐39 | 17♐ 3 | 9♊ 7 | 20°R18 | 21♉16 | 8♊31 | 28°R 1 | T 1 |
| W 2 | 10 39 27 | 11°36'06 | 5♓32 | 28°39 | 26°29 | 20°41 | 9♏28 | 23°24 | 17°40 | 17° 3 | 9° 7 | 20♉ 6 | 21°12 | 8°38 | 27♌57 | W 2 |
| T 3 | 10 43 24 | 12°36'08 | 18°57 | 0♈ 5 | 27°43 | 21°28 | 9°26 | 23°25 | 17°41 | 17° 4 | 9° 7 | 19°55 | 21° 9 | 8°44 | 27°52 | T 3 |
| F 4 | 10 47 20 | 13°36'07 | 2♈ 3 | 1°25 | 28°58 | 22°15 | 9°25 | 23°26 | 17°42 | 17° 4 | 9° 8 | 19°45 | 21° 6 | 8°51 | 27°48 | F 4 |
| S 5 | 10 51 17 | 14°36'04 | 14°51 | 2°40 | 0♓12 | 23° 1 | 9°23 | 23°27 | 17°43 | 17° 5 | 9° 8 | 19°37 | 21° 3 | 8°58 | 27°43 | S 5 |
| S 6 | 10 55 13 | 15°36'00 | 27°19 | 3°48 | 1°27 | 23°48 | 9°21 | 23°28 | 17°44 | 17° 5 | 9° 8 | 19°32 | 21° 0 | 9° 4 | 27°39 | S 6 |
| M 7 | 10 59 10 | 16°35'53 | 9♉32 | 4°49 | 2°42 | 24°35 | 9°19 | 23°30 | 17°45 | 17° 6 | 9° 8 | 19°30 | 20°57 | 9°11 | 27°34 | M 7 |
| T 8 | 11 3 6 | 17°35'44 | 21°31 | 5°43 | 3°56 | 25°21 | 9°16 | 23°31 | 17°45 | 17° 6 | 9° 9 | 19°D30 | 20°53 | 9°18 | 27°30 | T 8 |
| W 9 | 11 7 3 | 18°35'33 | 3♊23 | 6°30 | 5°11 | 26° 8 | 9°14 | 23°33 | 17°46 | 17° 7 | 9° 9 | 19°30 | 20°50 | 9°24 | 27°26 | W 9 |
| T 10 | 11 11 0 | 19°35'19 | 15°11 | 7° 8 | 6°25 | 26°54 | 9°11 | 23°34 | 17°47 | 17° 7 | 9° 9 | 19°R31 | 20°47 | 9°31 | 27°22 | T 10 |
| F 11 | 11 14 56 | 20°35'04 | 27° 1 | 7°38 | 7°40 | 27°41 | 9° 8 | 23°36 | 17°47 | 17° 7 | 9°10 | 19°31 | 20°44 | 9°38 | 27°17 | F 11 |
| S 12 | 11 18 53 | 21°34'46 | 9♋ 0 | 8° 0 | 8°55 | 28°27 | 9° 5 | 23°38 | 17°48 | 17° 7 | 9°10 | 19°29 | 20°41 | 9°44 | 27°13 | S 12 |
| S 13 | 11 22 49 | 22°34'26 | 21°10 | 8°13 | 10° 9 | 29°14 | 9° 2 | 23°40 | 17°49 | 17° 8 | 9°11 | 19°25 | 20°37 | 9°51 | 27° 9 | S 13 |
| M14 | 11 26 46 | 23°34'03 | 3♌38 | 8°R18 | 11°24 | 0♈ 0 | 8°59 | 23°42 | 17°49 | 17° 8 | 9°11 | 19°19 | 20°34 | 9°58 | 27° 5 | M14 |
| T 15 | 11 30 42 | 24°33'38 | 16°26 | 8°15 | 12°38 | 0°46 | 8°55 | 23°44 | 17°50 | 17° 8 | 9°11 | 19°11 | 20°31 | 10° 4 | 27° 1 | T 15 |
| W16 | 11 34 39 | 25°33'11 | 29°35 | 8° 4 | 13°53 | 1°33 | 8°51 | 23°46 | 17°50 | 17° 8 | 9°12 | 19° 2 | 20°28 | 10°11 | 26°57 | W16 |
| T 17 | 11 38 35 | 26°32'42 | 13♍ 5 | 7°46 | 15° 7 | 2°19 | 8°48 | 23°49 | 17°50 | 17° 8 | 9°12 | 18°52 | 20°25 | 10°18 | 26°54 | T 17 |
| F 18 | 11 42 32 | 27°32'11 | 26°55 | 7°20 | 16°22 | 3° 5 | 8°43 | 23°51 | 17°50 | 17° 8 | 9°13 | 18°44 | 20°22 | 10°24 | 26°50 | F 18 |
| S 19 | 11 46 29 | 28°31'37 | 11♎ 0 | 6°48 | 17°36 | 3°51 | 8°39 | 23°54 | 17°51 | 17°R 8 | 9°13 | 18°37 | 20°18 | 10°31 | 26°46 | S 19 |
| S 20 | 11 50 25 | 29°31'02 | 25°16 | 6°11 | 18°51 | 4°38 | 8°35 | 23°56 | 17°51 | 17° 8 | 9°14 | 18°33 | 20°15 | 10°37 | 26°43 | S 20 |
| M21 | 11 54 22 | 0♈30'25 | 9♏37 | 5°29 | 20° 5 | 5°24 | 8°30 | 23°59 | 17°51 | 17° 8 | 9°15 | 18°31 | 20°12 | 10°44 | 26°39 | M21 |
| T 22 | 11 58 18 | 1°29'46 | 24° 0 | 4°43 | 21°19 | 6°10 | 8°26 | 24° 2 | 17°51 | 17° 8 | 9°15 | 18°D30 | 20° 9 | 10°51 | 26°36 | T 22 |
| W23 | 12 2 15 | 2°29'05 | 8♐19 | 3°54 | 22°34 | 6°56 | 8°21 | 24° 5 | 17°R51 | 17° 8 | 9°16 | 18°31 | 20° 6 | 10°57 | 26°32 | W23 |
| T 24 | 12 6 11 | 3°28'22 | 22°33 | 3° 4 | 23°48 | 7°42 | 8°16 | 24° 8 | 17°51 | 17° 8 | 9°17 | 18°32 | 20° 3 | 11° 4 | 26°29 | T 24 |
| F 25 | 12 10 8 | 4°27'38 | 6♑40 | 2°13 | 25° 3 | 8°28 | 8°11 | 24°11 | 17°51 | 17° 8 | 9°17 | 18°R33 | 19°59 | 11°11 | 26°26 | F 25 |
| S 26 | 12 14 4 | 5°26'52 | 20°38 | 1°22 | 26°17 | 9°14 | 8° 5 | 24°15 | 17°51 | 17° 8 | 9°18 | 18°32 | 19°56 | 11°17 | 26°23 | S 26 |
| S 27 | 12 18 1 | 6°26'04 | 4♒27 | 0°33 | 27°32 | 9°59 | 8° 0 | 24°18 | 17°51 | 17° 7 | 9°19 | 18°29 | 19°53 | 11°24 | 26°20 | S 27 |
| M28 | 12 21 58 | 7°25'15 | 18° 6 | 29♓46 | 28°46 | 10°45 | 7°54 | 24°22 | 17°50 | 17° 7 | 9°19 | 18°24 | 19°50 | 11°31 | 26°17 | M28 |
| T 29 | 12 25 54 | 8°24'23 | 1♓33 | 29° 2 | 0♈ 0 | 11°31 | 7°49 | 24°25 | 17°50 | 17° 7 | 9°20 | 18°18 | 19°47 | 11°37 | 26°14 | T 29 |
| W30 | 12 29 51 | 9°23'30 | 14°48 | 28°22 | 1°15 | 12°17 | 7°43 | 24°29 | 17°50 | 17° 6 | 9°21 | 18°11 | 19°43 | 11°44 | 26°12 | W30 |
| T 31 | 12 33 47 | 10♈22'34 | 27♓49 | 27♓46 | 2♈29 | 13♈ 2 | 7♏37 | 24♊33 | 17♐49 | 17♐ 6 | 9♊22 | 18♉ 5 | 19♉40 | 11♊51 | 26♌ 9 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s36 | 19s 0 | 5s 2 | 0s32 | 0n40 | 14s14 | 1s10 | 4s47 | 0s50 | 13s24 | 1n21 | 22n24 | 0s56 | 22s57 | 0s 2 | 21s26 | 1n26 | 11n52 | 10s 6 | 17n51 | 18n 7 | 23n17 | 5n59 | 6s36 |
| W 2 | 7 14 | 14 1 | 4 51 | 0n17 | 0 54 | 13 50 | 1 11 | 4 28 | 0 50 | 13 23 | 1 22 | 22 24 | 0 56 | 22 57 | 0 2 | 21 26 | 1 26 | 11 52 | 10 6 | 17 48 | 18 6 | 23 19 | 6 1 | 6 35 |
| T 3 | 6 51 | 8 26 | 4 25 | 1 4 | 1 7 | 13 26 | 1 13 | 4 9 | 0 50 | 13 22 | 1 22 | 22 24 | 0 55 | 22 57 | 0 2 | 21 26 | 1 26 | 11 53 | 10 6 | 17 45 | 18 5 | 23 21 | 6 3 | 6 35 |
| F 4 | 6 28 | 2 37 | 3 44 | 1 48 | 1 21 | 13 1 | 1 14 | 3 50 | 0 49 | 13 22 | 1 22 | 22 24 | 0 55 | 22 57 | 0 2 | 21 26 | 1 26 | 11 53 | 10 5 | 17 43 | 18 4 | 23 22 | 6 5 | 6 34 |
| S 5 | 6 4 | 3n12 | 2 54 | 2 31 | 1 35 | 12 36 | 1 15 | 3 31 | 0 49 | 13 21 | 1 22 | 22 25 | 0 55 | 22 57 | 0 2 | 21 26 | 1 26 | 11 53 | 10 5 | 17 40 | 18 3 | 23 24 | 6 7 | 6 34 |
| S 6 | 5 41 | 8 45 | 1 55 | 3 10 | 1 48 | 12 10 | 1 17 | 3 12 | 0 48 | 13 20 | 1 22 | 22 25 | 0 55 | 22 57 | 0 2 | 21 26 | 1 26 | 11 54 | 10 5 | 17 39 | 18 2 | 23 26 | 6 9 | 6 34 |
| M 7 | 5 18 | 13 51 | 0 53 | 3 47 | 2 2 | 11 44 | 1 18 | 2 53 | 0 48 | 13 19 | 1 22 | 22 25 | 0 55 | 22 57 | 0 2 | 21 26 | 1 26 | 11 54 | 10 5 | 17 38 | 18 2 | 23 28 | 6 11 | 6 33 |
| T 8 | 4 55 | 18 21 | 0n11 | 4 20 | 2 15 | 11 18 | 1 19 | 2 34 | 0 47 | 13 18 | 1 23 | 22 25 | 0 54 | 22 57 | 0 2 | 21 26 | 1 26 | 11 54 | 10 4 | 17 38 | 18 1 | 23 30 | 6 13 | 6 33 |
| W 9 | 4 31 | 22 5 | 1 14 | 4 50 | 2 27 | 10 52 | 1 20 | 2 15 | 0 47 | 13 17 | 1 23 | 22 26 | 0 54 | 22 57 | 0 2 | 21 26 | 1 26 | 11 54 | 10 4 | 17 38 | 18 0 | 23 32 | 6 15 | 6 32 |
| T 10 | 4 8 | 24 52 | 2 13 | 5 16 | 2 39 | 10 25 | 1 21 | 1 56 | 0 46 | 13 16 | 1 23 | 22 26 | 0 54 | 22 58 | 0 2 | 21 26 | 1 26 | 11 55 | 10 4 | 17 39 | 17 59 | 23 34 | 6 16 | 6 32 |
| F 11 | 3 44 | 26 34 | 3 7 | 5 38 | 2 49 | 9 58 | 1 22 | 1 37 | 0 46 | 13 15 | 1 23 | 22 26 | 0 54 | 22 58 | 0 2 | 21 26 | 1 26 | 11 55 | 10 4 | 17 39 | 17 58 | 23 35 | 6 18 | 6 31 |
| S 12 | 3 21 | 27 4 | 3 53 | 5 55 | 2 59 | 9 31 | 1 22 | 1 18 | 0 45 | 13 14 | 1 23 | 22 26 | 0 54 | 22 58 | 0 2 | 21 26 | 1 26 | 11 55 | 10 3 | 17 38 | 17 57 | 23 37 | 6 20 | 6 31 |
| S 13 | 2 57 | 26 15 | 4 30 | 6 9 | 3 8 | 9 4 | 1 23 | 0 59 | 0 44 | 13 13 | 1 23 | 22 27 | 0 53 | 22 58 | 0 2 | 21 26 | 1 26 | 11 56 | 10 3 | 17 37 | 17 57 | 23 39 | 6 22 | 6 30 |
| M14 | 2 34 | 24 9 | 4 55 | 6 18 | 3 16 | 8 36 | 1 24 | 0 40 | 0 44 | 13 12 | 1 24 | 22 27 | 0 53 | 22 58 | 0 2 | 21 26 | 1 26 | 11 56 | 10 3 | 17 35 | 17 56 | 23 41 | 6 24 | 6 30 |
| T 15 | 2 10 | 20 48 | 5 5 | 6 22 | 3 22 | 8 8 | 1 25 | 0 21 | 0 43 | 13 11 | 1 24 | 22 27 | 0 53 | 22 58 | 0 2 | 21 26 | 1 26 | 11 56 | 10 3 | 17 33 | 17 55 | 23 43 | 6 26 | 6 29 |
| W16 | 1 46 | 16 20 | 5 1 | 6 22 | 3 26 | 7 40 | 1 25 | 0 2 | 0 43 | 13 9 | 1 24 | 22 28 | 0 53 | 22 58 | 0 2 | 21 26 | 1 26 | 11 57 | 10 2 | 17 31 | 17 54 | 23 44 | 6 28 | 6 29 |
| T 17 | 1 23 | 10 57 | 4 39 | 6 17 | 3 29 | 7 11 | 1 26 | 0n17 | 0 42 | 13 8 | 1 24 | 22 28 | 0 53 | 22 58 | 0 2 | 21 26 | 1 26 | 11 57 | 10 2 | 17 28 | 17 53 | 23 46 | 6 29 | 6 28 |
| F 18 | 0 59 | 4 55 | 4 1 | 6 9 | 3 31 | 6 43 | 1 26 | 0 35 | 0 42 | 13 6 | 1 24 | 22 28 | 0 52 | 22 58 | 0 2 | 21 26 | 1 27 | 11 57 | 10 2 | 17 26 | 17 52 | 23 48 | 6 31 | 6 27 |
| S 19 | 0 35 | 1s29 | 3 8 | 5 56 | 3 30 | 6 14 | 1 26 | 0 54 | 0 41 | 13 5 | 1 24 | 22 29 | 0 52 | 22 58 | 0 2 | 21 26 | 1 27 | 11 58 | 10 2 | 17 24 | 17 51 | 23 50 | 6 33 | 6 27 |
| S 20 | 0 12 | 7 54 | 2 2 | 5 39 | 3 28 | 5 45 | 1 27 | 1 13 | 0 41 | 13 3 | 1 24 | 22 29 | 0 52 | 22 58 | 0 2 | 21 26 | 1 27 | 11 58 | 10 1 | 17 23 | 17 51 | 23 52 | 6 35 | 6 26 |
| M21 | 0n12 | 13 58 | 0 48 | 5 18 | 3 24 | 5 16 | 1 27 | 1 32 | 0 40 | 13 2 | 1 25 | 22 29 | 0 52 | 22 58 | 0 2 | 21 26 | 1 27 | 11 58 | 10 1 | 17 22 | 17 50 | 23 53 | 6 36 | 6 26 |
| T 22 | 0 36 | 19 17 | 0s30 | 4 55 | 3 18 | 4 47 | 1 27 | 1 51 | 0 40 | 13 0 | 1 25 | 22 29 | 0 52 | 22 58 | 0 2 | 21 26 | 1 27 | 11 59 | 10 1 | 17 22 | 17 49 | 23 55 | 6 38 | 6 25 |
| W23 | 0 59 | 23 28 | 1 45 | 4 28 | 3 11 | 4 18 | 1 27 | 2 9 | 0 39 | 12 59 | 1 25 | 22 30 | 0 51 | 22 58 | 0 2 | 21 25 | 1 27 | 11 59 | 10 1 | 17 22 | 17 48 | 23 57 | 6 40 | 6 24 |
| T 24 | 1 23 | 26 10 | 2 54 | 4 0 | 3 2 | 3 48 | 1 27 | 2 28 | 0 38 | 12 57 | 1 25 | 22 30 | 0 51 | 22 58 | 0 2 | 21 25 | 1 27 | 11 59 | 10 0 | 17 23 | 17 47 | 23 59 | 6 42 | 6 24 |
| F 25 | 1 47 | 27 10 | 3 51 | 3 30 | 2 51 | 3 18 | 1 27 | 2 47 | 0 38 | 12 55 | 1 25 | 22 30 | 0 51 | 22 58 | 0 2 | 21 25 | 1 27 | 12 0 | 10 0 | 17 23 | 17 46 | 24 0 | 6 43 | 6 23 |
| S 26 | 2 10 | 26 24 | 4 34 | 2 59 | 2 39 | 2 49 | 1 27 | 3 5 | 0 37 | 12 53 | 1 25 | 22 31 | 0 51 | 22 58 | 0 2 | 21 25 | 1 27 | 12 0 | 10 0 | 17 22 | 17 46 | 24 2 | 6 45 | 6 22 |
| S 27 | 2 34 | 24 3 | 5 0 | 2 27 | 2 26 | 2 19 | 1 27 | 3 24 | 0 37 | 12 51 | 1 25 | 22 31 | 0 51 | 22 58 | 0 2 | 21 25 | 1 27 | 12 0 | 10 0 | 17 22 | 17 45 | 24 4 | 6 47 | 6 22 |
| M28 | 2 57 | 20 20 | 5 10 | 1 55 | 2 12 | 1 49 | 1 27 | 3 43 | 0 36 | 12 49 | 1 25 | 22 31 | 0 51 | 22 58 | 0 2 | 21 25 | 1 27 | 12 1 | 10 0 | 17 20 | 17 44 | 24 6 | 6 48 | 6 21 |
| T 29 | 3 20 | 15 38 | 5 1 | 1 24 | 1 57 | 1 19 | 1 27 | 4 1 | 0 36 | 12 48 | 1 26 | 22 32 | 0 50 | 22 58 | 0 2 | 21 25 | 1 27 | 12 1 | 9 59 | 17 19 | 17 43 | 24 7 | 6 50 | 6 20 |
| W30 | 3 44 | 10 15 | 4 37 | 0 54 | 1 41 | 0 49 | 1 26 | 4 19 | 0 35 | 12 46 | 1 26 | 22 32 | 0 50 | 22 58 | 0 2 | 21 25 | 1 27 | 12 1 | 9 59 | 17 17 | 17 42 | 24 9 | 6 51 | 6 19 |
| T 31 | 4n 7 | 4s31 | 3s59 | 0n25 | 1n25 | 0s19 | 1s26 | 4n38 | 0s34 | 12s44 | 1n26 | 22n32 | 0s50 | 22s58 | 0s 2 | 21s25 | 1n27 | 12n 2 | 9s59 | 17n15 | 17n41 | 24n11 | 6n53 | 6s19 |

Julian Day Number = 2323769.5, Delta T = 43.20 sec
Ecliptic obliquity = 23°29'11, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'26, Lahiri = 18°58'27Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## APRIL 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 37 44 | 11♈21'37 | 10♈35 | 27°R14 | 3♈43 | 13♈48 | 7°R31 | 24♊37 | 17°R49 | 17°R 6 | 9♊22 | 17°R59 | 19♉37 | 11♊57 | 26°R 6 | F 1 |
| S 2 | 12 41 40 | 12°20'38 | 23° 7 | 26♓48 | 4°58 | 14°34 | 7♏24 | 24°41 | 17♐48 | 17♐ 5 | 9°23 | 17♉55 | 19°34 | 12° 4 | 26♌ 4 | S 2 |
| S 3 | 12 45 37 | 13°19'36 | 5♉26 | 26°27 | 6°12 | 15°19 | 7°18 | 24°45 | 17°48 | 17° 5 | 9°24 | 17°52 | 19°31 | 12°11 | 26° 2 | S 3 |
| M 4 | 12 49 33 | 14°18'32 | 17°32 | 26°11 | 7°26 | 16° 5 | 7°12 | 24°49 | 17°47 | 17° 4 | 9°25 | 17°D51 | 19°28 | 12°17 | 25°59 | M 4 |
| T 5 | 12 53 30 | 15°17'27 | 29°29 | 26° 0 | 8°41 | 16°50 | 7° 5 | 24°53 | 17°46 | 17° 4 | 9°26 | 17°52 | 19°24 | 12°24 | 25°57 | T 5 |
| W 6 | 12 57 27 | 16°16'19 | 11♊19 | 25°D55 | 9°55 | 17°35 | 6°58 | 24°57 | 17°46 | 17° 3 | 9°27 | 17°54 | 19°21 | 12°31 | 25°55 | W 6 |
| T 7 | 13 1 23 | 17°15'09 | 23° 8 | 25°56 | 11° 9 | 18°21 | 6°52 | 25° 2 | 17°45 | 17° 3 | 9°27 | 17°55 | 19°18 | 12°37 | 25°53 | T 7 |
| F 8 | 13 5 20 | 18°13'56 | 4♋58 | 26° 1 | 12°23 | 19° 6 | 6°45 | 25° 6 | 17°44 | 17° 2 | 9°28 | 17°57 | 19°15 | 12°44 | 25°52 | F 8 |
| S 9 | 13 9 16 | 19°12'42 | 16°56 | 26°12 | 13°38 | 19°51 | 6°38 | 25°11 | 17°43 | 17° 1 | 9°29 | 17°R58 | 19°12 | 12°51 | 25°50 | S 9 |
| S 10 | 13 13 13 | 20°11'25 | 29° 6 | 26°28 | 14°52 | 20°37 | 6°31 | 25°15 | 17°42 | 17° 1 | 9°30 | 17°57 | 19° 9 | 12°57 | 25°48 | S 10 |
| M11 | 13 17 9 | 21°10'06 | 11♌33 | 26°48 | 16° 6 | 21°22 | 6°24 | 25°20 | 17°41 | 17° 0 | 9°31 | 17°56 | 19° 5 | 13° 4 | 25°47 | M11 |
| T 12 | 13 21 6 | 22° 8'44 | 24°21 | 27°13 | 17°20 | 22° 7 | 6°17 | 25°25 | 17°40 | 16°59 | 9°32 | 17°53 | 19° 2 | 13°11 | 25°45 | T 12 |
| W13 | 13 25 2 | 23° 7'21 | 7♍32 | 27°42 | 18°34 | 22°52 | 6° 9 | 25°30 | 17°39 | 16°58 | 9°33 | 17°50 | 18°59 | 13°17 | 25°44 | W13 |
| T 14 | 13 28 59 | 24° 5'55 | 21° 9 | 28°16 | 19°49 | 23°37 | 6° 2 | 25°35 | 17°38 | 16°58 | 9°34 | 17°46 | 18°56 | 13°24 | 25°43 | T 14 |
| F 15 | 13 32 55 | 25° 4'27 | 5♎ 9 | 28°53 | 21° 3 | 24°22 | 5°55 | 25°40 | 17°37 | 16°57 | 9°35 | 17°43 | 18°53 | 13°31 | 25°42 | F 15 |
| S 16 | 13 36 52 | 26° 2'57 | 19°31 | 29°34 | 22°17 | 25° 7 | 5°47 | 25°45 | 17°36 | 16°56 | 9°36 | 17°40 | 18°49 | 13°37 | 25°41 | S 16 |
| S 17 | 13 40 49 | 27° 1'25 | 4♏ 8 | 0♈19 | 23°31 | 25°52 | 5°40 | 25°50 | 17°35 | 16°55 | 9°37 | 17°39 | 18°46 | 13°44 | 25°40 | S 17 |
| M18 | 13 44 45 | 27°59'51 | 18°55 | 1° 8 | 24°45 | 26°36 | 5°32 | 25°56 | 17°34 | 16°54 | 9°38 | 17°D38 | 18°43 | 13°50 | 25°39 | M18 |
| T 19 | 13 48 42 | 28°58'16 | 3♐43 | 1°59 | 25°59 | 27°21 | 5°25 | 26° 1 | 17°32 | 16°53 | 9°39 | 17°39 | 18°40 | 13°57 | 25°39 | T 19 |
| W20 | 13 52 38 | 29°56'39 | 18°26 | 2°54 | 27°13 | 28° 6 | 5°17 | 26° 6 | 17°31 | 16°52 | 9°41 | 17°40 | 18°37 | 14° 4 | 25°38 | W20 |
| T 21 | 13 56 35 | 0♑55'00 | 2♑59 | 3°52 | 28°27 | 28°51 | 5°10 | 26°12 | 17°29 | 16°51 | 9°42 | 17°41 | 18°34 | 14°10 | 25°38 | T 21 |
| F 22 | 14 0 31 | 1°53'20 | 17°18 | 4°53 | 29°41 | 29°35 | 5° 2 | 26°17 | 17°28 | 16°50 | 9°43 | 17°42 | 18°30 | 14°17 | 25°37 | F 22 |
| S 23 | 14 4 28 | 2°51'38 | 1♒19 | 5°57 | 0♑55 | 0♑20 | 4°54 | 26°23 | 17°27 | 16°49 | 9°44 | 17°R43 | 18°27 | 14°24 | 25°37 | S 23 |
| S 24 | 14 8 25 | 3°49'55 | 15° 3 | 7° 3 | 2° 9 | 1° 4 | 4°47 | 26°29 | 17°25 | 16°48 | 9°45 | 17°42 | 18°24 | 14°30 | 25°D37 | S 24 |
| M25 | 14 12 21 | 4°48'10 | 28°29 | 8°12 | 3°24 | 1°49 | 4°39 | 26°35 | 17°23 | 16°47 | 9°46 | 17°41 | 18°21 | 14°37 | 25°37 | M25 |
| T 26 | 14 16 18 | 5°46'23 | 11♓39 | 9°23 | 4°38 | 2°33 | 4°31 | 26°40 | 17°22 | 16°46 | 9°47 | 17°40 | 18°18 | 14°44 | 25°37 | T 26 |
| W27 | 14 20 14 | 6°44'35 | 24°32 | 10°37 | 5°52 | 3°17 | 4°24 | 26°46 | 17°20 | 16°45 | 9°49 | 17°39 | 18°14 | 14°50 | 25°38 | W27 |
| T 28 | 14 24 11 | 7°42'46 | 7♈12 | 11°54 | 7° 6 | 4° 2 | 4°16 | 26°52 | 17°19 | 16°44 | 9°50 | 17°37 | 18°11 | 14°57 | 25°38 | T 28 |
| F 29 | 14 28 7 | 8°40'55 | 19°39 | 13°12 | 8°20 | 4°46 | 4° 8 | 26°58 | 17°17 | 16°43 | 9°51 | 17°36 | 18° 8 | 15° 4 | 25°38 | F 29 |
| S 30 | 14 32 4 | 9♉39'02 | 1♉55 | 14♈33 | 9♉34 | 5♉30 | 4♏ 1 | 27♊ 5 | 17♐15 | 16♐41 | 9♊52 | 17♉35 | 18♉ 5 | 15♊10 | 25♌39 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n30 | 1n18 | 3s 9 | 0s 3 | 1n 9 | 0n11 | 1s25 | 4n56 | 0s34 | 12s41 | 1n26 | 22n33 | 0s50 | 22s58 | 0s 2 | 21s25 | 1n27 | 12n 2 | 9s59 | 17n13 | 17n40 | 24n13 | 6n54 | 6s18 |
| S 2 | 4 53 | 6 59 | 2 11 | 0 28 | 0 53 | 0 41 | 1 25 | 5 14 | 0 33 | 12 39 | 1 26 | 22 33 | 0 50 | 22 58 | 0 2 | 21 25 | 1 27 | 12 2 | 9 58 | 17 12 | 17 40 | 24 14 | 6 56 | 6 17 |
| S 3 | 5 16 | 12 18 | 1 7 | 0 51 | 0 37 | 1 11 | 1 24 | 5 32 | 0 33 | 12 37 | 1 26 | 22 33 | 0 50 | 22 58 | 0 2 | 21 25 | 1 27 | 12 3 | 9 58 | 17 11 | 17 39 | 24 16 | 6 57 | 6 17 |
| M 4 | 5 39 | 17 4 | 0 2 | 1 12 | 0 21 | 1 41 | 1 24 | 5 51 | 0 32 | 12 35 | 1 26 | 22 34 | 0 49 | 22 58 | 0 2 | 21 25 | 1 27 | 12 3 | 9 58 | 17 11 | 17 38 | 24 18 | 6 59 | 6 16 |
| T 5 | 6 2 | 21 7 | 1n 3 | 1 30 | 0 6 | 2 11 | 1 23 | 6 9 | 0 32 | 12 33 | 1 26 | 22 34 | 0 49 | 22 58 | 0 2 | 21 25 | 1 27 | 12 3 | 9 58 | 17 11 | 17 37 | 24 19 | 7 0 | 6 15 |
| W 6 | 6 25 | 24 15 | 2 5 | 1 46 | 0s 9 | 2 41 | 1 22 | 6 26 | 0 31 | 12 31 | 1 26 | 22 34 | 0 49 | 22 58 | 0 2 | 21 24 | 1 27 | 12 4 | 9 58 | 17 12 | 17 36 | 24 21 | 7 2 | 6 14 |
| T 7 | 6 47 | 26 20 | 3 1 | 1 59 | 0 24 | 3 10 | 1 21 | 6 44 | 0 30 | 12 28 | 1 26 | 22 35 | 0 49 | 22 58 | 0 2 | 21 24 | 1 27 | 12 4 | 9 57 | 17 12 | 17 35 | 24 23 | 7 3 | 6 14 |
| F 8 | 7 10 | 27 14 | 3 50 | 2 10 | 0 38 | 3 40 | 1 20 | 7 2 | 0 30 | 12 26 | 1 26 | 22 35 | 0 49 | 22 58 | 0 2 | 21 24 | 1 27 | 12 4 | 9 57 | 17 13 | 17 34 | 24 24 | 7 4 | 6 13 |
| S 9 | 7 32 | 26 52 | 4 29 | 2 18 | 0 51 | 4 10 | 1 20 | 7 20 | 0 29 | 12 24 | 1 26 | 22 35 | 0 48 | 22 58 | 0 2 | 21 24 | 1 27 | 12 5 | 9 57 | 17 13 | 17 33 | 24 26 | 7 6 | 6 12 |
| S 10 | 7 54 | 25 13 | 4 57 | 2 23 | 1 4 | 4 40 | 1 19 | 7 37 | 0 29 | 12 22 | 1 26 | 22 36 | 0 48 | 22 57 | 0 2 | 21 24 | 1 27 | 12 5 | 9 57 | 17 13 | 17 33 | 24 28 | 7 7 | 6 11 |
| M11 | 8 16 | 22 21 | 5 12 | 2 26 | 1 16 | 5 9 | 1 17 | 7 55 | 0 28 | 12 19 | 1 26 | 22 36 | 0 48 | 22 57 | 0 2 | 21 24 | 1 27 | 12 5 | 9 57 | 17 12 | 17 32 | 24 29 | 7 8 | 6 10 |
| T 12 | 8 38 | 18 20 | 5 12 | 2 27 | 1 27 | 5 39 | 1 16 | 8 12 | 0 27 | 12 17 | 1 26 | 22 36 | 0 48 | 22 57 | 0 3 | 21 24 | 1 27 | 12 6 | 9 56 | 17 12 | 17 31 | 24 31 | 7 9 | 6 10 |
| W13 | 9 0 | 13 20 | 4 56 | 2 25 | 1 38 | 6 8 | 1 15 | 8 30 | 0 27 | 12 14 | 1 26 | 22 37 | 0 48 | 22 57 | 0 3 | 21 24 | 1 28 | 12 6 | 9 56 | 17 11 | 17 30 | 24 33 | 7 11 | 6 9 |
| T 14 | 9 22 | 7 32 | 4 23 | 2 21 | 1 48 | 6 37 | 1 14 | 8 47 | 0 26 | 12 12 | 1 26 | 22 37 | 0 48 | 22 57 | 0 3 | 21 24 | 1 28 | 12 6 | 9 56 | 17 10 | 17 29 | 24 34 | 7 12 | 6 8 |
| F 15 | 9 43 | 1 13 | 3 33 | 2 14 | 1 57 | 7 6 | 1 13 | 9 4 | 0 26 | 12 10 | 1 26 | 22 37 | 0 48 | 22 57 | 0 3 | 21 24 | 1 28 | 12 7 | 9 56 | 17 9 | 17 28 | 24 36 | 7 13 | 6 7 |
| S 16 | 10 5 | 5s21 | 2 29 | 2 5 | 2 6 | 7 35 | 1 11 | 9 21 | 0 25 | 12 7 | 1 26 | 22 38 | 0 47 | 22 57 | 0 3 | 21 23 | 1 28 | 12 7 | 9 56 | 17 8 | 17 27 | 24 38 | 7 14 | 6 6 |
| S 17 | 10 26 | 11 46 | 1 14 | 1 55 | 2 13 | 8 4 | 1 10 | 9 38 | 0 24 | 12 5 | 1 26 | 22 38 | 0 47 | 22 57 | 0 3 | 21 23 | 1 28 | 12 7 | 9 55 | 17 8 | 17 26 | 24 39 | 7 15 | 6 5 |
| M18 | 10 47 | 17 35 | 0s 7 | 1 42 | 2 21 | 8 33 | 1 8 | 9 55 | 0 24 | 12 2 | 1 26 | 22 38 | 0 47 | 22 57 | 0 3 | 21 23 | 1 28 | 12 8 | 9 55 | 17 8 | 17 26 | 24 41 | 7 16 | 6 5 |
| T 19 | 11 8 | 22 22 | 1 28 | 1 27 | 2 27 | 9 1 | 1 7 | 10 12 | 0 23 | 12 0 | 1 26 | 22 39 | 0 47 | 22 57 | 0 3 | 21 23 | 1 28 | 12 8 | 9 55 | 17 8 | 17 25 | 24 42 | 7 17 | 6 4 |
| W20 | 11 28 | 25 40 | 2 42 | 1 11 | 2 33 | 9 29 | 1 5 | 10 28 | 0 22 | 11 57 | 1 26 | 22 39 | 0 47 | 22 57 | 0 3 | 21 23 | 1 28 | 12 8 | 9 55 | 17 8 | 17 24 | 24 44 | 7 18 | 6 3 |
| T 21 | 11 49 | 27 12 | 3 45 | 0 52 | 2 38 | 9 57 | 1 4 | 10 45 | 0 22 | 11 55 | 1 26 | 22 39 | 0 47 | 22 56 | 0 3 | 21 23 | 1 28 | 12 9 | 9 55 | 17 8 | 17 23 | 24 46 | 7 19 | 6 2 |
| F 22 | 12 9 | 26 53 | 4 33 | 0 32 | 2 42 | 10 25 | 1 2 | 11 1 | 0 21 | 11 52 | 1 26 | 22 40 | 0 46 | 22 56 | 0 3 | 21 23 | 1 28 | 12 9 | 9 54 | 17 9 | 17 22 | 24 47 | 7 20 | 6 1 |
| S 23 | 12 29 | 24 50 | 5 4 | 0 10 | 2 46 | 10 52 | 1 1 | 11 17 | 0 21 | 11 50 | 1 26 | 22 40 | 0 46 | 22 56 | 0 3 | 21 23 | 1 28 | 12 9 | 9 54 | 17 9 | 17 21 | 24 49 | 7 21 | 6 0 |
| S 24 | 12 49 | 21 23 | 5 16 | 0n13 | 2 49 | 11 20 | 0 59 | 11 33 | 0 20 | 11 47 | 1 26 | 22 40 | 0 46 | 22 56 | 0 3 | 21 22 | 1 28 | 12 9 | 9 54 | 17 9 | 17 20 | 24 50 | 7 21 | 6 0 |
| M25 | 13 9 | 16 52 | 5 11 | 0 38 | 2 52 | 11 47 | 0 57 | 11 50 | 0 19 | 11 45 | 1 26 | 22 41 | 0 46 | 22 56 | 0 3 | 21 22 | 1 28 | 12 10 | 9 54 | 17 8 | 17 19 | 24 52 | 7 22 | 5 59 |
| T 26 | 13 28 | 11 40 | 4 49 | 1 4 | 2 53 | 12 13 | 0 55 | 12 5 | 0 19 | 11 42 | 1 26 | 22 41 | 0 46 | 22 56 | 0 3 | 21 22 | 1 28 | 12 10 | 9 54 | 17 8 | 17 19 | 24 53 | 7 23 | 5 58 |
| W27 | 13 48 | 6 3 | 4 13 | 1 32 | 2 55 | 12 40 | 0 53 | 12 21 | 0 18 | 11 40 | 1 26 | 22 41 | 0 46 | 22 56 | 0 3 | 21 22 | 1 28 | 12 10 | 9 54 | 17 8 | 17 18 | 24 55 | 7 24 | 5 57 |
| T 28 | 14 7 | 0 17 | 3 26 | 2 2 | 2 55 | 13 6 | 0 52 | 12 37 | 0 17 | 11 37 | 1 26 | 22 41 | 0 46 | 22 55 | 0 3 | 21 22 | 1 28 | 12 11 | 9 53 | 17 7 | 17 17 | 24 57 | 7 24 | 5 56 |
| F 29 | 14 25 | 5n24 | 2 29 | 2 32 | 2 55 | 13 32 | 0 50 | 12 52 | 0 17 | 11 35 | 1 26 | 22 42 | 0 45 | 22 55 | 0 3 | 21 22 | 1 28 | 12 11 | 9 53 | 17 7 | 17 16 | 24 58 | 7 25 | 5 55 |
| S 30 | 14n44 | 10n49 | 1s26 | 3n 4 | 2s54 | 13n57 | 0s48 | 13n 8 | 0s16 | 11s32 | 1n26 | 22n42 | 0s45 | 22s55 | 0s 3 | 21s22 | 1n28 | 12n11 | 9s53 | 17n 7 | 17n15 | 25n 0 | 7n26 | 5s55 |

Julian Day Number = 2323800.5, Delta T = 43.14 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'31, Lahiri = 18°58'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## MAY 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 36 0 | 10♉37'08 | 14♉ 0 | 15♈56 | 10♉48 | 6♉14 | 3°R53 | 27♊11 | 17°R13 | 16°R40 | 9♊53 | 17°D35 | 18♉ 2 | 15♊17 | 25♌40 | S 1 |
| M 2 | 14 39 57 | 11°35'12 | 25°58 | 17°21 | 12° 1 | 6°59 | 3♏46 | 27°17 | 17♐12 | 16♐39 | 9°55 | 17♉35 | 17°59 | 15°24 | 25°41 | M 2 |
| T 3 | 14 43 53 | 12°33'14 | 7♊51 | 18°49 | 13°15 | 7°43 | 3°38 | 27°23 | 17°10 | 16°38 | 9°56 | 17°35 | 17°55 | 15°30 | 25°42 | T 3 |
| W 4 | 14 47 50 | 13°31'15 | 19°39 | 20°18 | 14°29 | 8°27 | 3°31 | 27°30 | 17° 8 | 16°36 | 9°57 | 17°36 | 17°52 | 15°37 | 25°43 | W 4 |
| T 5 | 14 51 47 | 14°29'13 | 1♋28 | 21°50 | 15°43 | 9°11 | 3°23 | 27°36 | 17° 6 | 16°35 | 9°58 | 17°36 | 17°49 | 15°44 | 25°44 | T 5 |
| F 6 | 14 55 43 | 15°27'11 | 13°19 | 23°23 | 16°57 | 9°54 | 3°16 | 27°42 | 17° 4 | 16°34 | 10° 0 | 17°37 | 17°46 | 15°50 | 25°45 | F 6 |
| S 7 | 14 59 40 | 16°25'06 | 25°17 | 24°59 | 18°11 | 10°38 | 3° 9 | 27°49 | 17° 2 | 16°33 | 10° 1 | 17°37 | 17°43 | 15°57 | 25°47 | S 7 |
| S 8 | 15 3 36 | 17°22'59 | 7♌26 | 26°37 | 19°25 | 11°22 | 3° 1 | 27°55 | 17° 0 | 16°31 | 10° 2 | 17°R37 | 17°40 | 16° 4 | 25°48 | S 8 |
| M 9 | 15 7 33 | 18°20'51 | 19°51 | 28°17 | 20°39 | 12° 6 | 2°54 | 28° 2 | 16°58 | 16°30 | 10° 3 | 17°D37 | 17°36 | 16°10 | 25°50 | M 9 |
| T 10 | 15 11 29 | 19°18'41 | 2♍35 | 29°59 | 21°53 | 12°49 | 2°47 | 28° 9 | 16°56 | 16°28 | 10° 5 | 17°37 | 17°33 | 16°17 | 25°51 | T 10 |
| W11 | 15 15 26 | 20°16'29 | 15°42 | 1♉43 | 23° 7 | 13°33 | 2°40 | 28°15 | 16°54 | 16°27 | 10° 6 | 17°37 | 17°30 | 16°24 | 25°53 | W11 |
| T 12 | 15 19 22 | 21°14'16 | 29°15 | 3°29 | 24°20 | 14°17 | 2°33 | 28°22 | 16°52 | 16°26 | 10° 7 | 17°37 | 17°27 | 16°30 | 25°55 | T 12 |
| F 13 | 15 23 19 | 22°12'00 | 13♎14 | 5°17 | 25°34 | 15° 0 | 2°26 | 28°29 | 16°50 | 16°24 | 10° 9 | 17°38 | 17°24 | 16°37 | 25°57 | F 13 |
| S 14 | 15 27 16 | 23° 9'43 | 27°39 | 7° 7 | 26°48 | 15°44 | 2°19 | 28°36 | 16°47 | 16°23 | 10°10 | 17°38 | 17°20 | 16°44 | 25°59 | S 14 |
| S 15 | 15 31 12 | 24° 7'25 | 12♏25 | 8°59 | 28° 2 | 16°27 | 2°13 | 28°43 | 16°45 | 16°21 | 10°11 | 17°R38 | 17°17 | 16°50 | 26° 2 | S 15 |
| M16 | 15 35 9 | 25° 5'05 | 27°26 | 10°53 | 29°16 | 17°10 | 2° 6 | 28°50 | 16°43 | 16°20 | 10°13 | 17°38 | 17°14 | 16°57 | 26° 4 | M16 |
| T 17 | 15 39 5 | 26° 2'45 | 12♐34 | 12°49 | 0♊29 | 17°54 | 2° 0 | 28°57 | 16°41 | 16°18 | 10°14 | 17°38 | 17°11 | 17° 4 | 26° 7 | T 17 |
| W18 | 15 43 2 | 27° 0'22 | 27°39 | 14°47 | 1°43 | 18°37 | 1°53 | 29° 4 | 16°39 | 16°17 | 10°15 | 17°37 | 17° 8 | 17°10 | 26° 9 | W18 |
| T 19 | 15 46 58 | 27°57'59 | 12♑33 | 16°48 | 2°57 | 19°20 | 1°47 | 29°11 | 16°36 | 16°15 | 10°17 | 17°36 | 17° 5 | 17°17 | 26°12 | T 19 |
| F 20 | 15 50 55 | 28°55'35 | 27° 8 | 18°50 | 4°11 | 20° 3 | 1°41 | 29°18 | 16°34 | 16°14 | 10°18 | 17°35 | 17° 1 | 17°24 | 26°15 | F 20 |
| S 21 | 15 54 52 | 29°53'10 | 11♒22 | 20°53 | 5°24 | 20°46 | 1°35 | 29°25 | 16°32 | 16°12 | 10°19 | 17°34 | 16°58 | 17°30 | 26°18 | S 21 |
| S 22 | 15 58 48 | 0♊50'44 | 25°10 | 22°59 | 6°38 | 21°29 | 1°29 | 29°32 | 16°29 | 16°11 | 10°21 | 17°D33 | 16°55 | 17°37 | 26°21 | S 22 |
| M23 | 16 2 45 | 1°48'17 | 8♓34 | 25° 6 | 7°52 | 22°12 | 1°23 | 29°39 | 16°27 | 16° 9 | 10°22 | 17°33 | 16°52 | 17°44 | 26°24 | M23 |
| T 24 | 16 6 41 | 2°45'49 | 21°36 | 27°14 | 9° 6 | 22°55 | 1°17 | 29°47 | 16°25 | 16° 8 | 10°24 | 17°34 | 16°49 | 17°50 | 26°27 | T 24 |
| W25 | 16 10 38 | 3°43'20 | 4♈18 | 29°24 | 10°19 | 23°38 | 1°12 | 29°54 | 16°22 | 16° 6 | 10°25 | 17°35 | 16°46 | 17°57 | 26°30 | W25 |
| T 26 | 16 14 34 | 4°40'50 | 16°43 | 1♊34 | 11°33 | 24°21 | 1° 6 | 0♋ 1 | 16°20 | 16° 5 | 10°26 | 17°36 | 16°42 | 18° 4 | 26°34 | T 26 |
| F 27 | 16 18 31 | 5°38'20 | 28°56 | 3°45 | 12°47 | 25° 4 | 1° 1 | 0° 9 | 16°17 | 16° 3 | 10°28 | 17°38 | 16°39 | 18°10 | 26°37 | F 27 |
| S 28 | 16 22 27 | 6°35'49 | 10♉59 | 5°57 | 14° 1 | 25°46 | 0°56 | 0°16 | 16°15 | 16° 1 | 10°29 | 17°38 | 16°36 | 18°17 | 26°41 | S 28 |
| S 29 | 16 26 24 | 7°33'16 | 22°54 | 8° 9 | 15°14 | 26°29 | 0°51 | 0°23 | 16°13 | 16° 0 | 10°30 | 17°R38 | 16°33 | 18°24 | 26°45 | S 29 |
| M30 | 16 30 21 | 8°30'43 | 4♊45 | 10°21 | 16°28 | 27°12 | 0°46 | 0°31 | 16°10 | 15°58 | 10°32 | 17°37 | 16°30 | 18°30 | 26°48 | M30 |
| T 31 | 16 34 17 | 9♊28'09 | 16♊34 | 12♊33 | 17♊42 | 27♉54 | 0♏42 | 0♋38 | 16♐ 8 | 15♐57 | 10♊33 | 17♉35 | 16♉26 | 18♊37 | 26♌52 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n 2 | 15n46 | 0s20 | 3n37 | 2s53 | 14n22 | 0s46 | 13n23 | 0s16 | 11s30 | 1n26 | 22n42 | 0s45 | 22s55 | 0s 3 | 21s21 | 1n28 | 12n12 | 9s53 | 17n 7 | 17n14 | 25n 1 | 7n26 | 5s54 |
| M 2 | 15 20 | 20 2 | 0n46 | 4 11 | 2 51 | 14 47 | 0 44 | 13 38 | 0 15 | 11 27 | 1 26 | 22 43 | 0 45 | 22 55 | 0 3 | 21 21 | 1 28 | 12 12 | 9 53 | 17 7 | 17 13 | 25 3 | 7 27 | 5 53 |
| T 3 | 15 38 | 23 28 | 1 50 | 4 47 | 2 49 | 15 11 | 0 42 | 13 53 | 0 14 | 11 25 | 1 26 | 22 43 | 0 45 | 22 55 | 0 3 | 21 21 | 1 28 | 12 12 | 9 53 | 17 7 | 17 12 | 25 4 | 7 27 | 5 52 |
| W 4 | 15 56 | 25 53 | 2 49 | 5 23 | 2 46 | 15 35 | 0 39 | 14 8 | 0 14 | 11 22 | 1 25 | 22 43 | 0 45 | 22 54 | 0 3 | 21 21 | 1 28 | 12 13 | 9 53 | 17 7 | 17 11 | 25 6 | 7 28 | 5 51 |
| T 5 | 16 13 | 27 9 | 3 40 | 6 1 | 2 42 | 15 59 | 0 37 | 14 23 | 0 13 | 11 20 | 1 25 | 22 43 | 0 45 | 22 54 | 0 3 | 21 21 | 1 28 | 12 13 | 9 52 | 17 7 | 17 11 | 25 7 | 7 28 | 5 50 |
| F 6 | 16 30 | 27 10 | 4 23 | 6 39 | 2 38 | 16 22 | 0 35 | 14 37 | 0 12 | 11 18 | 1 25 | 22 44 | 0 44 | 22 54 | 0 3 | 21 21 | 1 28 | 12 13 | 9 52 | 17 7 | 17 10 | 25 9 | 7 28 | 5 49 |
| S 7 | 16 47 | 25 56 | 4 54 | 7 18 | 2 34 | 16 45 | 0 33 | 14 52 | 0 12 | 11 15 | 1 25 | 22 44 | 0 44 | 22 54 | 0 3 | 21 21 | 1 28 | 12 14 | 9 52 | 17 7 | 17 9 | 25 10 | 7 29 | 5 49 |
| S 8 | 17 3 | 23 29 | 5 13 | 7 58 | 2 29 | 17 7 | 0 31 | 15 6 | 0 11 | 11 13 | 1 25 | 22 44 | 0 44 | 22 54 | 0 3 | 21 20 | 1 28 | 12 14 | 9 52 | 17 7 | 17 8 | 25 12 | 7 29 | 5 48 |
| M 9 | 17 19 | 19 54 | 5 17 | 8 39 | 2 23 | 17 29 | 0 29 | 15 20 | 0 10 | 11 10 | 1 25 | 22 44 | 0 44 | 22 54 | 0 3 | 21 20 | 1 28 | 12 14 | 9 52 | 17 7 | 17 7 | 25 13 | 7 29 | 5 47 |
| T 10 | 17 35 | 15 20 | 5 7 | 9 21 | 2 17 | 17 51 | 0 26 | 15 34 | 0 10 | 11 8 | 1 25 | 22 45 | 0 44 | 22 53 | 0 3 | 21 20 | 1 28 | 12 14 | 9 52 | 17 7 | 17 6 | 25 15 | 7 30 | 5 46 |
| W11 | 17 51 | 9 57 | 4 40 | 10 3 | 2 10 | 18 12 | 0 24 | 15 48 | 0 9 | 11 6 | 1 25 | 22 45 | 0 44 | 22 53 | 0 3 | 21 20 | 1 28 | 12 15 | 9 52 | 17 7 | 17 5 | 25 16 | 7 30 | 5 45 |
| T 12 | 18 6 | 3 56 | 3 58 | 10 46 | 2 3 | 18 33 | 0 22 | 16 1 | 0 8 | 11 4 | 1 24 | 22 45 | 0 44 | 22 53 | 0 3 | 21 20 | 1 28 | 12 15 | 9 52 | 17 7 | 17 4 | 25 18 | 7 30 | 5 44 |
| F 13 | 18 21 | 2s29 | 3 0 | 11 30 | 1 55 | 18 53 | 0 19 | 16 15 | 0 8 | 11 1 | 1 24 | 22 45 | 0 43 | 22 53 | 0 3 | 21 20 | 1 28 | 12 15 | 9 52 | 17 7 | 17 3 | 25 19 | 7 30 | 5 44 |
| S 14 | 18 36 | 8 58 | 1 49 | 12 13 | 1 47 | 19 12 | 0 17 | 16 28 | 0 7 | 10 59 | 1 24 | 22 45 | 0 43 | 22 53 | 0 3 | 21 19 | 1 28 | 12 16 | 9 51 | 17 8 | 17 3 | 25 20 | 7 30 | 5 43 |
| S 15 | 18 50 | 15 8 | 0 29 | 12 58 | 1 39 | 19 31 | 0 15 | 16 41 | 0 7 | 10 57 | 1 24 | 22 46 | 0 43 | 22 52 | 0 3 | 21 19 | 1 28 | 12 16 | 9 51 | 17 8 | 17 2 | 25 22 | 7 30 | 5 42 |
| M16 | 19 4 | 20 30 | 0s54 | 13 42 | 1 30 | 19 50 | 0 12 | 16 54 | 0 6 | 10 55 | 1 24 | 22 46 | 0 43 | 22 52 | 0 3 | 21 19 | 1 28 | 12 16 | 9 51 | 17 8 | 17 1 | 25 23 | 7 30 | 5 41 |
| T 17 | 19 18 | 24 34 | 2 14 | 14 26 | 1 21 | 20 8 | 0 10 | 17 7 | 0 5 | 10 53 | 1 24 | 22 46 | 0 43 | 22 52 | 0 3 | 21 19 | 1 28 | 12 16 | 9 51 | 17 7 | 17 0 | 25 25 | 7 30 | 5 40 |
| W18 | 19 32 | 26 52 | 3 24 | 15 10 | 1 11 | 20 25 | 0 8 | 17 19 | 0 5 | 10 51 | 1 23 | 22 46 | 0 43 | 22 52 | 0 3 | 21 19 | 1 28 | 12 17 | 9 51 | 17 7 | 16 59 | 25 26 | 7 30 | 5 39 |
| T 19 | 19 45 | 27 12 | 4 20 | 15 55 | 1 1 | 20 42 | 0 5 | 17 32 | 0 4 | 10 49 | 1 23 | 22 46 | 0 43 | 22 52 | 0 3 | 21 19 | 1 28 | 12 17 | 9 51 | 17 7 | 16 58 | 25 28 | 7 30 | 5 39 |
| F 20 | 19 58 | 25 37 | 4 57 | 16 38 | 0 51 | 20 59 | 0 3 | 17 44 | 0 3 | 10 47 | 1 23 | 22 47 | 0 43 | 22 51 | 0 3 | 21 18 | 1 28 | 12 17 | 9 51 | 17 7 | 16 57 | 25 29 | 7 30 | 5 38 |
| S 21 | 20 10 | 22 27 | 5 15 | 17 22 | 0 41 | 21 14 | 0 1 | 17 56 | 0 3 | 10 45 | 1 23 | 22 47 | 0 42 | 22 51 | 0 3 | 21 18 | 1 28 | 12 17 | 9 51 | 17 6 | 16 56 | 25 30 | 7 29 | 5 37 |
| S 22 | 20 22 | 18 5 | 5 14 | 18 4 | 0 30 | 21 29 | 0n 2 | 18 8 | 0 2 | 10 43 | 1 23 | 22 47 | 0 42 | 22 51 | 0 3 | 21 18 | 1 28 | 12 18 | 9 51 | 17 6 | 16 55 | 25 32 | 7 29 | 5 36 |
| M23 | 20 34 | 12 56 | 4 56 | 18 46 | 0 19 | 21 44 | 0 4 | 18 20 | 0 1 | 10 41 | 1 22 | 22 47 | 0 42 | 22 51 | 0 3 | 21 18 | 1 28 | 12 18 | 9 51 | 17 6 | 16 54 | 25 33 | 7 29 | 5 35 |
| T 24 | 20 45 | 7 22 | 4 23 | 19 26 | 0 9 | 21 58 | 0 7 | 18 32 | 0 1 | 10 40 | 1 22 | 22 47 | 0 42 | 22 50 | 0 3 | 21 18 | 1 28 | 12 18 | 9 51 | 17 6 | 16 54 | 25 35 | 7 29 | 5 34 |
| W25 | 20 56 | 1 37 | 3 37 | 20 5 | 0n 2 | 22 11 | 0 9 | 18 43 | 0 0 | 10 38 | 1 22 | 22 47 | 0 42 | 22 50 | 0 3 | 21 18 | 1 28 | 12 19 | 9 51 | 17 7 | 16 53 | 25 36 | 7 28 | 5 34 |
| T 26 | 21 7 | 4n 5 | 2 43 | 20 43 | 0 12 | 22 24 | 0 11 | 18 54 | 0n 1 | 10 36 | 1 22 | 22 47 | 0 42 | 22 50 | 0 3 | 21 17 | 1 28 | 12 19 | 9 50 | 17 7 | 16 52 | 25 37 | 7 28 | 5 33 |
| F 27 | 21 17 | 9 32 | 1 42 | 21 19 | 0 23 | 22 36 | 0 14 | 19 5 | 0 1 | 10 35 | 1 22 | 22 47 | 0 42 | 22 50 | 0 3 | 21 17 | 1 28 | 12 19 | 9 50 | 17 7 | 16 51 | 25 39 | 7 27 | 5 32 |
| S 28 | 21 27 | 14 34 | 0 37 | 21 53 | 0 33 | 22 48 | 0 16 | 19 16 | 0 2 | 10 33 | 1 21 | 22 48 | 0 42 | 22 50 | 0 3 | 21 17 | 1 28 | 12 19 | 9 50 | 17 8 | 16 50 | 25 40 | 7 27 | 5 31 |
| S 29 | 21 37 | 19 0 | 0n29 | 22 25 | 0 43 | 22 59 | 0 19 | 19 27 | 0 2 | 10 32 | 1 21 | 22 48 | 0 42 | 22 49 | 0 3 | 21 17 | 1 28 | 12 19 | 9 50 | 17 8 | 16 49 | 25 41 | 7 27 | 5 30 |
| M30 | 21 46 | 22 39 | 1 33 | 22 55 | 0 52 | 23 9 | 0 21 | 19 37 | 0 3 | 10 30 | 1 21 | 22 48 | 0 41 | 22 49 | 0 3 | 21 17 | 1 28 | 12 20 | 9 50 | 17 7 | 16 48 | 25 43 | 7 26 | 5 30 |
| T 31 | 21n55 | 25n20 | 2n33 | 23n22 | 1n 2 | 23n18 | 0n23 | 19n48 | 0n 4 | 10s29 | 1n21 | 22n48 | 0s41 | 22s49 | 0s 3 | 21s17 | 1n28 | 12n20 | 9s50 | 17n 7 | 16n47 | 25n44 | 7n25 | 5s29 |

Julian Day Number = 2323830.5, Delta T = 43.08 sec
Ecliptic obliquity = 23°29'11, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'35, Lahiri = 18°58'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## JUNE 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 38 14 | 10♊25'35 | 28♊23 | 14♊44 | 18♊55 | 28♉37 | 0°R37 | 0♋46 | 16°R 5 | 15°R55 | 10♊35 | 17°R32 | 16♉23 | 18♊44 | 26♌56 | W 1 |
| T 2 | 16 42 10 | 11°22'59 | 10♋13 | 16°54 | 20° 9 | 29°19 | 0♏33 | 0°53 | 16♐ 3 | 15♐53 | 10°36 | 17♉29 | 16°20 | 18°50 | 27° 0 | T 2 |
| F 3 | 16 46 7 | 12°20'22 | 22° 8 | 19° 4 | 21°23 | 0♊ 2 | 0°29 | 1° 1 | 16° 0 | 15°52 | 10°37 | 17°25 | 16°17 | 18°57 | 27° 5 | F 3 |
| S 4 | 16 50 3 | 13°17'44 | 4♌10 | 21°12 | 22°36 | 0°44 | 0°24 | 1° 9 | 15°58 | 15°50 | 10°39 | 17°21 | 16°14 | 19° 4 | 27° 9 | S 4 |
| S 5 | 16 54 0 | 14°15'06 | 16°21 | 23°18 | 23°50 | 1°26 | 0°21 | 1°16 | 15°56 | 15°48 | 10°40 | 17°17 | 16°11 | 19°10 | 27°13 | S 5 |
| M 6 | 16 57 56 | 15°12'26 | 28°46 | 25°23 | 25° 4 | 2° 9 | 0°17 | 1°24 | 15°53 | 15°47 | 10°42 | 17°15 | 16° 7 | 19°17 | 27°18 | M 6 |
| T 7 | 17 1 53 | 16° 9'45 | 11♍27 | 27°26 | 26°17 | 2°51 | 0°13 | 1°31 | 15°51 | 15°45 | 10°43 | 17°D14 | 16° 4 | 19°24 | 27°22 | T 7 |
| W 8 | 17 5 50 | 17° 7'03 | 24°29 | 29°27 | 27°31 | 3°33 | 0°10 | 1°39 | 15°48 | 15°44 | 10°44 | 17°14 | 16° 1 | 19°30 | 27°27 | W 8 |
| T 9 | 17 9 46 | 18° 4'20 | 7♎54 | 1♋26 | 28°44 | 4°15 | 0° 7 | 1°47 | 15°46 | 15°42 | 10°46 | 17°15 | 15°58 | 19°37 | 27°32 | T 9 |
| F 10 | 17 13 43 | 19° 1'36 | 21°45 | 3°23 | 29°58 | 4°57 | 0° 4 | 1°54 | 15°43 | 15°40 | 10°47 | 17°17 | 15°55 | 19°44 | 27°37 | F 10 |
| S 11 | 17 17 39 | 19°58'52 | 6♏ 2 | 5°17 | 1♋12 | 5°39 | 0° 1 | 2° 2 | 15°41 | 15°39 | 10°48 | 17°18 | 15°52 | 19°50 | 27°42 | S 11 |
| S 12 | 17 21 36 | 20°56'07 | 20°43 | 7° 9 | 2°25 | 6°21 | 29♎58 | 2°10 | 15°38 | 15°37 | 10°50 | 17°R18 | 15°48 | 19°57 | 27°47 | S 12 |
| M13 | 17 25 32 | 21°53'21 | 5♐43 | 9° 0 | 3°39 | 7° 3 | 29°56 | 2°18 | 15°36 | 15°36 | 10°51 | 17°17 | 15°45 | 20° 4 | 27°52 | M13 |
| T 14 | 17 29 29 | 22°50'34 | 20°56 | 10°47 | 4°52 | 7°45 | 29°53 | 2°25 | 15°33 | 15°34 | 10°53 | 17°14 | 15°42 | 20°10 | 27°57 | T 14 |
| W15 | 17 33 25 | 23°47'47 | 6♑11 | 12°33 | 6° 6 | 8°26 | 29°51 | 2°33 | 15°31 | 15°32 | 10°54 | 17°10 | 15°39 | 20°17 | 28° 2 | W15 |
| T 16 | 17 37 22 | 24°45'00 | 21°18 | 14°16 | 7°19 | 9° 8 | 29°49 | 2°41 | 15°29 | 15°31 | 10°55 | 17° 5 | 15°36 | 20°24 | 28° 7 | T 16 |
| F 17 | 17 41 19 | 25°42'12 | 6♒ 7 | 15°57 | 8°33 | 9°50 | 29°47 | 2°49 | 15°26 | 15°29 | 10°57 | 16°59 | 15°32 | 20°30 | 28°13 | F 17 |
| S 18 | 17 45 15 | 26°39'25 | 20°33 | 17°35 | 9°46 | 10°31 | 29°46 | 2°56 | 15°24 | 15°28 | 10°58 | 16°55 | 15°29 | 20°37 | 28°18 | S 18 |
| S 19 | 17 49 12 | 27°36'37 | 4♓30 | 19°11 | 11° 0 | 11°13 | 29°44 | 3° 4 | 15°21 | 15°26 | 10°59 | 16°51 | 15°26 | 20°44 | 28°24 | S 19 |
| M20 | 17 53 8 | 28°33'48 | 17°59 | 20°45 | 12°13 | 11°54 | 29°43 | 3°12 | 15°19 | 15°24 | 11° 1 | 16°49 | 15°23 | 20°50 | 28°30 | M20 |
| T 21 | 17 57 5 | 29°31'00 | 1♈ 1 | 22°16 | 13°27 | 12°36 | 29°42 | 3°20 | 15°17 | 15°23 | 11° 2 | 16°D48 | 15°20 | 20°57 | 28°35 | T 21 |
| W22 | 18 1 1 | 0♋28'12 | 13°39 | 23°45 | 14°40 | 13°17 | 29°41 | 3°28 | 15°14 | 15°21 | 11° 3 | 16°49 | 15°17 | 21° 4 | 28°41 | W22 |
| T 23 | 18 4 58 | 1°25'24 | 25°59 | 25°11 | 15°54 | 13°59 | 29°40 | 3°36 | 15°12 | 15°20 | 11° 5 | 16°50 | 15°13 | 21°10 | 28°47 | T 23 |
| F 24 | 18 8 54 | 2°22'36 | 8♉ 4 | 26°35 | 17° 7 | 14°40 | 29°40 | 3°43 | 15°10 | 15°18 | 11° 6 | 16°51 | 15°10 | 21°17 | 28°53 | F 24 |
| S 25 | 18 12 51 | 3°19'48 | 20° 0 | 27°56 | 18°21 | 15°21 | 29°39 | 3°51 | 15° 7 | 15°17 | 11° 7 | 16°R52 | 15° 7 | 21°24 | 28°59 | S 25 |
| S 26 | 18 16 48 | 4°17'01 | 1♊50 | 29°15 | 19°34 | 16° 2 | 29°39 | 3°59 | 15° 5 | 15°15 | 11° 9 | 16°50 | 15° 4 | 21°30 | 29° 5 | S 26 |
| M27 | 18 20 44 | 5°14'13 | 13°38 | 0♌31 | 20°48 | 16°44 | 29°D39 | 4° 7 | 15° 3 | 15°14 | 11°10 | 16°47 | 15° 1 | 21°37 | 29°11 | M27 |
| T 28 | 18 24 41 | 6°11'25 | 25°26 | 1°45 | 22° 1 | 17°25 | 29°39 | 4°15 | 15° 1 | 15°12 | 11°11 | 16°42 | 14°58 | 21°44 | 29°18 | T 28 |
| W29 | 18 28 37 | 7° 8'38 | 7♋17 | 2°56 | 23°15 | 18° 6 | 29°39 | 4°23 | 14°58 | 15°11 | 11°12 | 16°34 | 14°54 | 21°50 | 29°24 | W29 |
| T 30 | 18 32 34 | 8♋ 5'50 | 19♋13 | 4♌ 4 | 24♋28 | 18♊47 | 29♎40 | 4♋30 | 14♐56 | 15♐ 9 | 11♊14 | 16♉25 | 14♉51 | 21♊57 | 29♌30 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 22n 3 | 26n54 | 3n26 | 23n46 | 1n10 | 23n27 | 0n26 | 19n58 | 0n 4 | 10s27 | 1n20 | 22n48 | 0s41 | 22s49 | 0s 3 | 21s16 | 1n28 | 12n20 | 9s50 | 17n 6 | 16n46 | 25n45 | 7n25 | 5s28 |
| T 2 | 22 11 | 27 15 | 4 10 | 24 8 | 1 18 | 23 35 | 0 28 | 20 8 | 0 5 | 10 26 | 1 20 | 22 48 | 0 41 | 22 48 | 0 3 | 21 16 | 1 28 | 12 20 | 9 50 | 17 5 | 16 45 | 25 47 | 7 24 | 5 27 |
| F 3 | 22 19 | 26 20 | 4 44 | 24 27 | 1 26 | 23 43 | 0 30 | 20 17 | 0 6 | 10 25 | 1 20 | 22 48 | 0 41 | 22 48 | 0 3 | 21 16 | 1 28 | 12 21 | 9 50 | 17 4 | 16 44 | 25 48 | 7 23 | 5 27 |
| S 4 | 22 26 | 24 12 | 5 5 | 24 44 | 1 32 | 23 49 | 0 33 | 20 27 | 0 6 | 10 24 | 1 20 | 22 48 | 0 41 | 22 48 | 0 3 | 21 16 | 1 28 | 12 21 | 9 50 | 17 3 | 16 44 | 25 49 | 7 23 | 5 26 |
| S 5 | 22 33 | 20 57 | 5 13 | 24 57 | 1 38 | 23 55 | 0 35 | 20 36 | 0 7 | 10 22 | 1 19 | 22 48 | 0 41 | 22 48 | 0 3 | 21 16 | 1 28 | 12 21 | 9 50 | 17 2 | 16 43 | 25 51 | 7 22 | 5 25 |
| M 6 | 22 40 | 16 43 | 5 7 | 25 8 | 1 44 | 24 1 | 0 37 | 20 45 | 0 8 | 10 21 | 1 19 | 22 48 | 0 41 | 22 47 | 0 3 | 21 16 | 1 28 | 12 21 | 9 50 | 17 1 | 16 42 | 25 52 | 7 21 | 5 24 |
| T 7 | 22 46 | 11 41 | 4 46 | 25 16 | 1 48 | 24 5 | 0 39 | 20 54 | 0 8 | 10 20 | 1 19 | 22 48 | 0 41 | 22 47 | 0 3 | 21 16 | 1 28 | 12 21 | 9 50 | 17 1 | 16 41 | 25 53 | 7 20 | 5 24 |
| W 8 | 22 52 | 6 1 | 4 10 | 25 21 | 1 52 | 24 9 | 0 42 | 21 3 | 0 9 | 10 19 | 1 19 | 22 48 | 0 40 | 22 47 | 0 3 | 21 15 | 1 28 | 12 22 | 9 50 | 17 1 | 16 40 | 25 54 | 7 19 | 5 23 |
| T 9 | 22 57 | 0s 5 | 3 19 | 25 24 | 1 56 | 24 13 | 0 44 | 21 11 | 0 9 | 10 19 | 1 18 | 22 48 | 0 40 | 22 47 | 0 3 | 21 15 | 1 28 | 12 22 | 9 50 | 17 1 | 16 39 | 25 56 | 7 19 | 5 22 |
| F 10 | 23 2 | 6 24 | 2 15 | 25 25 | 1 58 | 24 15 | 0 46 | 21 20 | 0 10 | 10 18 | 1 18 | 22 48 | 0 40 | 22 46 | 0 3 | 21 15 | 1 28 | 12 22 | 9 50 | 17 1 | 16 38 | 25 57 | 7 18 | 5 21 |
| S 11 | 23 6 | 12 36 | 1 1 | 25 22 | 2 0 | 24 17 | 0 48 | 21 28 | 0 11 | 10 17 | 1 18 | 22 48 | 0 40 | 22 46 | 0 3 | 21 15 | 1 28 | 12 22 | 9 50 | 17 2 | 16 37 | 25 58 | 7 17 | 5 21 |
| S 12 | 23 11 | 18 16 | 0s19 | 25 18 | 2 1 | 24 18 | 0 50 | 21 36 | 0 11 | 10 16 | 1 18 | 22 48 | 0 40 | 22 46 | 0 3 | 21 15 | 1 28 | 12 22 | 9 50 | 17 2 | 16 36 | 25 59 | 7 16 | 5 20 |
| M13 | 23 14 | 22 55 | 1 39 | 25 11 | 2 1 | 24 18 | 0 52 | 21 44 | 0 12 | 10 16 | 1 17 | 22 48 | 0 40 | 22 46 | 0 3 | 21 15 | 1 28 | 12 23 | 9 50 | 17 2 | 16 35 | 26 1 | 7 15 | 5 19 |
| T 14 | 23 18 | 26 3 | 2 53 | 25 3 | 2 0 | 24 18 | 0 54 | 21 51 | 0 13 | 10 15 | 1 17 | 22 48 | 0 40 | 22 45 | 0 3 | 21 14 | 1 28 | 12 23 | 9 50 | 17 1 | 16 34 | 26 2 | 7 13 | 5 18 |
| W15 | 23 20 | 27 15 | 3 55 | 24 52 | 1 59 | 24 17 | 0 56 | 21 58 | 0 13 | 10 15 | 1 17 | 22 48 | 0 40 | 22 45 | 0 3 | 21 14 | 1 28 | 12 23 | 9 50 | 17 0 | 16 33 | 26 3 | 7 12 | 5 18 |
| T 16 | 23 23 | 26 24 | 4 40 | 24 40 | 1 57 | 24 15 | 0 58 | 22 6 | 0 14 | 10 14 | 1 17 | 22 48 | 0 40 | 22 45 | 0 3 | 21 14 | 1 28 | 12 23 | 9 50 | 16 58 | 16 32 | 26 4 | 7 11 | 5 17 |
| F 17 | 23 25 | 23 42 | 5 5 | 24 26 | 1 55 | 24 13 | 1 0 | 22 12 | 0 15 | 10 14 | 1 16 | 22 48 | 0 40 | 22 45 | 0 3 | 21 14 | 1 28 | 12 23 | 9 50 | 16 57 | 16 32 | 26 6 | 7 10 | 5 16 |
| S 18 | 23 27 | 19 34 | 5 10 | 24 10 | 1 51 | 24 9 | 1 2 | 22 19 | 0 15 | 10 13 | 1 16 | 22 48 | 0 39 | 22 44 | 0 3 | 21 14 | 1 28 | 12 23 | 9 50 | 16 55 | 16 31 | 26 7 | 7 9 | 5 16 |
| S 19 | 23 28 | 14 28 | 4 56 | 23 53 | 1 47 | 24 5 | 1 4 | 22 26 | 0 16 | 10 13 | 1 16 | 22 48 | 0 39 | 22 44 | 0 3 | 21 14 | 1 28 | 12 24 | 9 50 | 16 54 | 16 30 | 26 8 | 7 7 | 5 15 |
| M20 | 23 29 | 8 50 | 4 26 | 23 35 | 1 43 | 24 1 | 1 6 | 22 32 | 0 16 | 10 13 | 1 16 | 22 48 | 0 39 | 22 44 | 0 3 | 21 13 | 1 28 | 12 24 | 9 50 | 16 54 | 16 29 | 26 9 | 7 6 | 5 14 |
| T 21 | 23 29 | 3 0 | 3 43 | 23 15 | 1 38 | 23 55 | 1 7 | 22 38 | 0 17 | 10 13 | 1 15 | 22 47 | 0 39 | 22 44 | 0 3 | 21 13 | 1 28 | 12 24 | 9 50 | 16 53 | 16 28 | 26 10 | 7 5 | 5 14 |
| W22 | 23 29 | 2n47 | 2 50 | 22 54 | 1 32 | 23 49 | 1 9 | 22 44 | 0 18 | 10 13 | 1 15 | 22 47 | 0 39 | 22 43 | 0 3 | 21 13 | 1 28 | 12 24 | 9 50 | 16 54 | 16 27 | 26 11 | 7 4 | 5 13 |
| T 23 | 23 29 | 8 20 | 1 51 | 22 32 | 1 25 | 23 42 | 1 11 | 22 50 | 0 18 | 10 13 | 1 15 | 22 47 | 0 39 | 22 43 | 0 3 | 21 13 | 1 28 | 12 24 | 9 50 | 16 54 | 16 26 | 26 13 | 7 2 | 5 12 |
| F 24 | 23 28 | 13 29 | 0 47 | 22 10 | 1 19 | 23 35 | 1 12 | 22 55 | 0 19 | 10 13 | 1 14 | 22 47 | 0 39 | 22 43 | 0 3 | 21 13 | 1 28 | 12 24 | 9 50 | 16 54 | 16 25 | 26 14 | 7 1 | 5 12 |
| S 25 | 23 27 | 18 3 | 0n17 | 21 46 | 1 11 | 23 27 | 1 14 | 23 0 | 0 20 | 10 13 | 1 14 | 22 47 | 0 39 | 22 43 | 0 3 | 21 13 | 1 28 | 12 25 | 9 50 | 16 54 | 16 24 | 26 15 | 6 59 | 5 11 |
| S 26 | 23 25 | 21 53 | 1 20 | 21 22 | 1 3 | 23 18 | 1 15 | 23 5 | 0 20 | 10 13 | 1 14 | 22 47 | 0 39 | 22 42 | 0 3 | 21 13 | 1 28 | 12 25 | 9 50 | 16 54 | 16 23 | 26 16 | 6 58 | 5 10 |
| M27 | 23 23 | 24 47 | 2 19 | 20 58 | 0 54 | 23 8 | 1 17 | 23 10 | 0 21 | 10 13 | 1 14 | 22 47 | 0 39 | 22 42 | 0 3 | 21 12 | 1 28 | 12 25 | 9 50 | 16 53 | 16 22 | 26 17 | 6 56 | 5 10 |
| T 28 | 23 20 | 26 37 | 3 13 | 20 33 | 0 45 | 22 58 | 1 18 | 23 15 | 0 22 | 10 14 | 1 13 | 22 47 | 0 39 | 22 42 | 0 3 | 21 12 | 1 28 | 12 25 | 9 50 | 16 51 | 16 21 | 26 18 | 6 55 | 5 9 |
| W29 | 23 18 | 27 14 | 3 57 | 20 7 | 0 36 | 22 47 | 1 19 | 23 19 | 0 22 | 10 14 | 1 13 | 22 46 | 0 39 | 22 42 | 0 3 | 21 12 | 1 28 | 12 25 | 9 50 | 16 49 | 16 20 | 26 20 | 6 53 | 5 9 |
| T 30 | 23n14 | 26n36 | 4n32 | 19n41 | 0n25 | 22n36 | 1n21 | 23n23 | 0n23 | 10s14 | 1n13 | 22n46 | 0s38 | 22s41 | 0s 3 | 21s12 | 1n28 | 12n25 | 9s50 | 16n47 | 16n19 | 26n21 | 6n51 | 5s 8 |

Julian Day Number = 2323861.5, Delta T = 43.02 sec
Ecliptic obliquity = 23°29'11, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'39, Lahiri = 18°58'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## JULY 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 36 30 | 9♋ 3'03 | 1♌16 | 5♌ 9 | 25♋42 | 19♊28 | 29♎41 | 4♋38 | 14°R54 | 15°R 8 | 11♊15 | 16°R15 | 14♉48 | 22♊ 4 | 29♌37 | F 1 |
| S 2 | 18 40 27 | 10° 0'15 | 13°26 | 6°12 | 26°55 | 20° 9 | 29°42 | 4°46 | 14♐52 | 15♐ 6 | 11°16 | 16♉ 6 | 14°45 | 22°11 | 29°43 | S 2 |
| S 3 | 18 44 24 | 10°57'27 | 25°45 | 7°11 | 28° 9 | 20°49 | 29°43 | 4°54 | 14°50 | 15° 5 | 11°17 | 15°57 | 14°42 | 22°17 | 29°50 | S 3 |
| M 4 | 18 48 20 | 11°54'39 | 8♍16 | 8° 7 | 29°22 | 21°30 | 29°44 | 5° 2 | 14°48 | 15° 4 | 11°19 | 15°50 | 14°38 | 22°24 | 29°57 | M 4 |
| T 5 | 18 52 17 | 12°51'52 | 21° 1 | 9° 0 | 0♌36 | 22°11 | 29°45 | 5° 9 | 14°46 | 15° 2 | 11°20 | 15°46 | 14°35 | 22°31 | 0♍ 3 | T 5 |
| W 6 | 18 56 13 | 13°49'04 | 4♎ 1 | 9°50 | 1°49 | 22°52 | 29°47 | 5°17 | 14°43 | 15° 1 | 11°21 | 15°44 | 14°32 | 22°37 | 0°10 | W 6 |
| T 7 | 19 0 10 | 14°46'16 | 17°22 | 10°36 | 3° 2 | 23°32 | 29°49 | 5°25 | 14°41 | 14°59 | 11°22 | 15°D43 | 14°29 | 22°44 | 0°17 | T 7 |
| F 8 | 19 4 6 | 15°43'28 | 1♏ 3 | 11°19 | 4°16 | 24°13 | 29°51 | 5°33 | 14°39 | 14°58 | 11°23 | 15°44 | 14°26 | 22°51 | 0°24 | F 8 |
| S 9 | 19 8 3 | 16°40'40 | 15° 8 | 11°57 | 5°29 | 24°54 | 29°53 | 5°40 | 14°38 | 14°57 | 11°25 | 15°R44 | 14°23 | 22°57 | 0°31 | S 9 |
| S 10 | 19 11 59 | 17°37'52 | 29°35 | 12°32 | 6°42 | 25°34 | 29°55 | 5°48 | 14°36 | 14°55 | 11°26 | 15°44 | 14°19 | 23° 4 | 0°38 | S 10 |
| M11 | 19 15 56 | 18°35'04 | 14♐23 | 13° 3 | 7°56 | 26°14 | 29°57 | 5°56 | 14°34 | 14°54 | 11°27 | 15°41 | 14°16 | 23°11 | 0°45 | M11 |
| T 12 | 19 19 53 | 19°32'17 | 29°26 | 13°30 | 9° 9 | 26°55 | 0♏ 0 | 6° 4 | 14°32 | 14°53 | 11°28 | 15°36 | 14°13 | 23°17 | 0°52 | T 12 |
| W13 | 19 23 49 | 20°29'30 | 14♑35 | 13°52 | 10°22 | 27°35 | 0° 3 | 6°11 | 14°30 | 14°52 | 11°29 | 15°28 | 14°10 | 23°24 | 0°59 | W13 |
| T 14 | 19 27 46 | 21°26'43 | 29°40 | 14°10 | 11°36 | 28°15 | 0° 6 | 6°19 | 14°28 | 14°50 | 11°30 | 15°19 | 14° 7 | 23°31 | 1° 6 | T 14 |
| F 15 | 19 31 42 | 22°23'57 | 14♒32 | 14°23 | 12°49 | 28°56 | 0° 9 | 6°27 | 14°26 | 14°49 | 11°31 | 15° 9 | 14° 4 | 23°37 | 1°14 | F 15 |
| S 16 | 19 35 39 | 23°21'11 | 29° 2 | 14°31 | 14° 2 | 29°36 | 0°12 | 6°34 | 14°25 | 14°48 | 11°32 | 15° 0 | 14° 0 | 23°44 | 1°21 | S 16 |
| S 17 | 19 39 35 | 24°18'26 | 13♓ 6 | 14°R35 | 15°16 | 0♋16 | 0°16 | 6°42 | 14°23 | 14°47 | 11°33 | 14°53 | 13°57 | 23°51 | 1°28 | S 17 |
| M18 | 19 43 32 | 25°15'42 | 26°39 | 14°33 | 16°29 | 0°56 | 0°20 | 6°49 | 14°21 | 14°46 | 11°35 | 14°47 | 13°54 | 23°57 | 1°36 | M18 |
| T 19 | 19 47 28 | 26°12'59 | 9♈45 | 14°27 | 17°42 | 1°36 | 0°23 | 6°57 | 14°20 | 14°45 | 11°36 | 14°44 | 13°51 | 24° 4 | 1°43 | T 19 |
| W20 | 19 51 25 | 27°10'16 | 22°25 | 14°15 | 18°55 | 2°16 | 0°27 | 7° 4 | 14°18 | 14°44 | 11°37 | 14°D43 | 13°48 | 24°11 | 1°51 | W20 |
| T 21 | 19 55 22 | 28° 7'35 | 4♉45 | 13°59 | 20° 9 | 2°56 | 0°31 | 7°12 | 14°17 | 14°42 | 11°38 | 14°43 | 13°44 | 24°17 | 1°58 | T 21 |
| F 22 | 19 59 18 | 29° 4'54 | 16°49 | 13°38 | 21°22 | 3°36 | 0°36 | 7°19 | 14°15 | 14°41 | 11°39 | 14°R43 | 13°41 | 24°24 | 2° 6 | F 22 |
| S 23 | 20 3 15 | 0♌ 2'15 | 28°43 | 13°12 | 22°35 | 4°16 | 0°40 | 7°27 | 14°14 | 14°40 | 11°40 | 14°42 | 13°38 | 24°31 | 2°14 | S 23 |
| S 24 | 20 7 11 | 0°59'37 | 10♊31 | 12°42 | 23°48 | 4°56 | 0°45 | 7°34 | 14°12 | 14°39 | 11°41 | 14°40 | 13°35 | 24°37 | 2°21 | S 24 |
| M25 | 20 11 8 | 1°57'00 | 22°19 | 12° 8 | 25° 1 | 5°36 | 0°50 | 7°42 | 14°11 | 14°38 | 11°42 | 14°35 | 13°32 | 24°44 | 2°29 | M25 |
| T 26 | 20 15 4 | 2°54'23 | 4♋10 | 11°30 | 26°14 | 6°15 | 0°55 | 7°49 | 14° 9 | 14°37 | 11°42 | 14°27 | 13°29 | 24°51 | 2°37 | T 26 |
| W27 | 20 19 1 | 3°51'48 | 16° 6 | 10°49 | 27°28 | 6°55 | 1° 0 | 7°56 | 14° 8 | 14°36 | 11°43 | 14°16 | 13°25 | 24°57 | 2°45 | W27 |
| T 28 | 20 22 57 | 4°49'14 | 28°11 | 10° 6 | 28°41 | 7°35 | 1° 5 | 8° 4 | 14° 7 | 14°36 | 11°44 | 14° 4 | 13°22 | 25° 4 | 2°53 | T 28 |
| F 29 | 20 26 54 | 5°46'40 | 10♌24 | 9°21 | 29°54 | 8°14 | 1°10 | 8°11 | 14° 6 | 14°35 | 11°45 | 13°50 | 13°19 | 25°11 | 3° 1 | F 29 |
| S 30 | 20 30 51 | 6°44'08 | 22°47 | 8°34 | 1♍ 7 | 8°54 | 1°16 | 8°18 | 14° 4 | 14°34 | 11°46 | 13°37 | 13°16 | 25°17 | 3° 9 | S 30 |
| S 31 | 20 34 47 | 7♌41'36 | 5♍21 | 7♌48 | 2♍20 | 9♋33 | 1♏22 | 8♋25 | 14♐ 3 | 14♐33 | 11♊47 | 13♉25 | 13♉13 | 25♊24 | 3♍17 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n11 | 24n43 | 4n55 | 19n15 | 0n15 | 22n23 | 1n22 | 23n27 | 0n23 | 10s15 | 1n13 | 22n46 | 0s38 | 22s41 | 0s 3 | 21s12 | 1n28 | 12n25 | 9s50 | 16n44 | 16n19 | 26n22 | 6n50 | 5s 7 |
| S 2 | 23 7 | 21 41 | 5 5 | 18 49 | 0 4 | 22 10 | 1 23 | 23 31 | 0 24 | 10 16 | 1 12 | 22 46 | 0 38 | 22 41 | 0 3 | 21 12 | 1 28 | 12 25 | 9 50 | 16 41 | 16 18 | 26 23 | 6 48 | 5 7 |
| S 3 | 23 2 | 17 41 | 5 1 | 18 23 | 0s 7 | 21 57 | 1 24 | 23 35 | 0 25 | 10 16 | 1 12 | 22 46 | 0 38 | 22 41 | 0 3 | 21 12 | 1 28 | 12 25 | 9 51 | 16 39 | 16 17 | 26 24 | 6 46 | 5 6 |
| M 4 | 22 57 | 12 51 | 4 43 | 17 58 | 0 19 | 21 43 | 1 25 | 23 38 | 0 25 | 10 17 | 1 12 | 22 45 | 0 38 | 22 40 | 0 3 | 21 12 | 1 28 | 12 26 | 9 51 | 16 37 | 16 16 | 26 25 | 6 45 | 5 6 |
| T 5 | 22 52 | 7 24 | 4 10 | 17 32 | 0 32 | 21 28 | 1 26 | 23 41 | 0 26 | 10 18 | 1 11 | 22 45 | 0 38 | 22 40 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 35 | 16 15 | 26 26 | 6 43 | 5 5 |
| W 6 | 22 46 | 1 31 | 3 24 | 17 7 | 0 44 | 21 13 | 1 27 | 23 44 | 0 27 | 10 18 | 1 11 | 22 45 | 0 38 | 22 40 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 35 | 16 14 | 26 27 | 6 41 | 5 4 |
| T 7 | 22 40 | 4s35 | 2 26 | 16 42 | 0 57 | 20 57 | 1 28 | 23 47 | 0 27 | 10 19 | 1 11 | 22 45 | 0 38 | 22 40 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 35 | 16 13 | 26 28 | 6 39 | 5 4 |
| F 8 | 22 33 | 10 39 | 1 18 | 16 18 | 1 10 | 20 40 | 1 29 | 23 49 | 0 28 | 10 20 | 1 11 | 22 44 | 0 38 | 22 40 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 35 | 16 12 | 26 29 | 6 37 | 5 3 |
| S 9 | 22 27 | 16 21 | 0 3 | 15 54 | 1 24 | 20 23 | 1 30 | 23 52 | 0 28 | 10 21 | 1 10 | 22 44 | 0 38 | 22 39 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 35 | 16 11 | 26 30 | 6 35 | 5 3 |
| S 10 | 22 19 | 21 18 | 1s13 | 15 31 | 1 37 | 20 5 | 1 30 | 23 54 | 0 29 | 10 22 | 1 10 | 22 44 | 0 38 | 22 39 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 35 | 16 10 | 26 32 | 6 33 | 5 2 |
| M11 | 22 12 | 25 0 | 2 27 | 15 9 | 1 51 | 19 47 | 1 31 | 23 56 | 0 30 | 10 23 | 1 10 | 22 44 | 0 38 | 22 39 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 34 | 16 9 | 26 33 | 6 31 | 5 2 |
| T 12 | 22 4 | 27 0 | 3 31 | 14 48 | 2 5 | 19 28 | 1 31 | 23 57 | 0 30 | 10 25 | 1 10 | 22 43 | 0 38 | 22 39 | 0 3 | 21 11 | 1 28 | 12 26 | 9 51 | 16 33 | 16 8 | 26 34 | 6 30 | 5 1 |
| W13 | 21 55 | 27 0 | 4 21 | 14 29 | 2 19 | 19 9 | 1 32 | 23 59 | 0 31 | 10 26 | 1 9 | 22 43 | 0 37 | 22 38 | 0 3 | 21 10 | 1 28 | 12 26 | 9 51 | 16 30 | 16 7 | 26 35 | 6 27 | 5 1 |
| T 14 | 21 46 | 25 1 | 4 52 | 14 10 | 2 33 | 18 49 | 1 32 | 24 0 | 0 31 | 10 27 | 1 9 | 22 43 | 0 37 | 22 38 | 0 3 | 21 10 | 1 28 | 12 26 | 9 51 | 16 28 | 16 6 | 26 36 | 6 25 | 5 0 |
| F 15 | 21 37 | 21 20 | 5 3 | 13 53 | 2 47 | 18 29 | 1 33 | 24 1 | 0 32 | 10 29 | 1 9 | 22 42 | 0 37 | 22 38 | 0 3 | 21 10 | 1 27 | 12 26 | 9 51 | 16 25 | 16 5 | 26 37 | 6 23 | 5 0 |
| S 16 | 21 28 | 16 25 | 4 54 | 13 37 | 3 1 | 18 8 | 1 33 | 24 2 | 0 33 | 10 30 | 1 8 | 22 42 | 0 37 | 22 38 | 0 3 | 21 10 | 1 27 | 12 26 | 9 52 | 16 22 | 16 4 | 26 38 | 6 21 | 4 59 |
| S 17 | 21 18 | 10 46 | 4 27 | 13 23 | 3 15 | 17 47 | 1 33 | 24 2 | 0 33 | 10 31 | 1 8 | 22 42 | 0 37 | 22 38 | 0 3 | 21 10 | 1 27 | 12 26 | 9 52 | 16 20 | 16 3 | 26 39 | 6 19 | 4 59 |
| M18 | 21 8 | 4 47 | 3 46 | 13 11 | 3 28 | 17 25 | 1 33 | 24 3 | 0 34 | 10 33 | 1 8 | 22 42 | 0 37 | 22 38 | 0 3 | 21 10 | 1 27 | 12 26 | 9 52 | 16 18 | 16 3 | 26 40 | 6 17 | 4 58 |
| T 19 | 20 57 | 1n12 | 2 55 | 13 1 | 3 41 | 17 2 | 1 33 | 24 3 | 0 34 | 10 34 | 1 8 | 22 41 | 0 37 | 22 37 | 0 4 | 21 10 | 1 27 | 12 26 | 9 52 | 16 17 | 16 2 | 26 41 | 6 15 | 4 58 |
| W20 | 20 46 | 6 57 | 1 56 | 12 52 | 3 53 | 16 40 | 1 33 | 24 3 | 0 35 | 10 36 | 1 7 | 22 41 | 0 37 | 22 37 | 0 4 | 21 10 | 1 27 | 12 26 | 9 52 | 16 17 | 16 1 | 26 42 | 6 13 | 4 57 |
| T 21 | 20 35 | 12 18 | 0 53 | 12 46 | 4 4 | 16 16 | 1 33 | 24 3 | 0 36 | 10 38 | 1 7 | 22 41 | 0 37 | 22 37 | 0 4 | 21 10 | 1 27 | 12 26 | 9 52 | 16 17 | 16 0 | 26 43 | 6 10 | 4 57 |
| F 22 | 20 23 | 17 4 | 0n11 | 12 41 | 4 15 | 15 53 | 1 33 | 24 3 | 0 36 | 10 40 | 1 7 | 22 40 | 0 37 | 22 37 | 0 4 | 21 10 | 1 27 | 12 26 | 9 52 | 16 17 | 15 59 | 26 44 | 6 8 | 4 56 |
| S 23 | 20 11 | 21 6 | 1 14 | 12 39 | 4 25 | 15 29 | 1 33 | 24 2 | 0 37 | 10 41 | 1 7 | 22 40 | 0 37 | 22 37 | 0 4 | 21 10 | 1 27 | 12 26 | 9 52 | 16 17 | 15 58 | 26 45 | 6 6 | 4 56 |
| S 24 | 19 59 | 24 15 | 2 12 | 12 40 | 4 33 | 15 4 | 1 33 | 24 1 | 0 38 | 10 43 | 1 6 | 22 39 | 0 37 | 22 36 | 0 4 | 21 10 | 1 27 | 12 26 | 9 52 | 16 16 | 15 57 | 26 45 | 6 4 | 4 55 |
| M25 | 19 46 | 26 21 | 3 5 | 12 42 | 4 41 | 14 39 | 1 32 | 24 0 | 0 38 | 10 45 | 1 6 | 22 39 | 0 37 | 22 36 | 0 4 | 21 9 | 1 27 | 12 26 | 9 53 | 16 15 | 15 56 | 26 46 | 6 1 | 4 55 |
| T 26 | 19 33 | 27 15 | 3 50 | 12 47 | 4 46 | 14 14 | 1 32 | 23 59 | 0 39 | 10 47 | 1 6 | 22 39 | 0 37 | 22 36 | 0 4 | 21 9 | 1 27 | 12 26 | 9 53 | 16 12 | 15 55 | 26 47 | 5 59 | 4 54 |
| W27 | 19 20 | 26 54 | 4 25 | 12 53 | 4 51 | 13 48 | 1 31 | 23 58 | 0 39 | 10 49 | 1 6 | 22 38 | 0 37 | 22 36 | 0 4 | 21 9 | 1 27 | 12 26 | 9 53 | 16 9 | 15 54 | 26 48 | 5 57 | 4 54 |
| T 28 | 19 6 | 25 17 | 4 49 | 13 2 | 4 54 | 13 22 | 1 31 | 23 56 | 0 40 | 10 51 | 1 5 | 22 38 | 0 36 | 22 36 | 0 4 | 21 9 | 1 27 | 12 26 | 9 53 | 16 5 | 15 53 | 26 49 | 5 54 | 4 53 |
| F 29 | 18 52 | 22 28 | 4 59 | 13 13 | 4 55 | 12 56 | 1 30 | 23 54 | 0 41 | 10 53 | 1 5 | 22 38 | 0 36 | 22 36 | 0 4 | 21 9 | 1 27 | 12 26 | 9 53 | 16 1 | 15 52 | 26 50 | 5 52 | 4 53 |
| S 30 | 18 38 | 18 36 | 4 56 | 13 25 | 4 54 | 12 29 | 1 29 | 23 52 | 0 41 | 10 55 | 1 5 | 22 37 | 0 36 | 22 36 | 0 4 | 21 9 | 1 27 | 12 26 | 9 53 | 15 58 | 15 51 | 26 51 | 5 49 | 4 53 |
| S 31 | 18n23 | 13n53 | 4n39 | 13n40 | 4s51 | 12n 2 | 1n28 | 23n50 | 0n42 | 10s58 | 1n 5 | 22n37 | 0s36 | 22s35 | 0s 4 | 21s 9 | 1n27 | 12n26 | 9s53 | 15n54 | 15n50 | 26n52 | 5n47 | 4s52 |

Julian Day Number = 2323891.5, Delta T = 42.97 sec
Ecliptic obliquity = 23°29'11, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'43, Lahiri = 18°58'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## AUGUST 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 38 44 | 8♌39'05 | 18♍ 5 | 7°R 2 | 3♍33 | 10♋13 | 1♏27 | 8♋33 | 14°R 2 | 14°R32 | 11♊48 | 13°R16 | 13♉10 | 25♊31 | 3♍25 | M 1 |
| T 2 | 20 42 40 | 9°36'36 | 1♎ 2 | 6♌18 | 4°46 | 10°52 | 1°33 | 8°40 | 14♐ 1 | 14♐32 | 11°49 | 13♉ 9 | 13° 6 | 25°38 | 3°33 | T 2 |
| W 3 | 20 46 37 | 10°34'06 | 14°10 | 5°37 | 5°59 | 11°32 | 1°40 | 8°47 | 14° 0 | 14°31 | 11°49 | 13° 5 | 13° 3 | 25°44 | 3°41 | W 3 |
| T 4 | 20 50 33 | 11°31'38 | 27°33 | 4°58 | 7°12 | 12°11 | 1°46 | 8°54 | 13°59 | 14°30 | 11°50 | 13° 3 | 13° 0 | 25°51 | 3°49 | T 4 |
| F 5 | 20 54 30 | 12°29'11 | 11♏12 | 4°24 | 8°25 | 12°50 | 1°52 | 9° 1 | 13°58 | 14°29 | 11°51 | 13° 3 | 12°57 | 25°58 | 3°57 | F 5 |
| S 6 | 20 58 26 | 13°26'44 | 25° 8 | 3°54 | 9°38 | 13°29 | 1°59 | 9° 8 | 13°57 | 14°29 | 11°52 | 13° 3 | 12°54 | 26° 4 | 4° 5 | S 6 |
| S 7 | 21 2 23 | 14°24'19 | 9♐22 | 3°29 | 10°51 | 14° 8 | 2° 5 | 9°15 | 13°57 | 14°28 | 11°52 | 13° 2 | 12°50 | 26°11 | 4°13 | S 7 |
| M 8 | 21 6 20 | 15°21'54 | 23°52 | 3°11 | 12° 4 | 14°47 | 2°12 | 9°22 | 13°56 | 14°28 | 11°53 | 12°58 | 12°47 | 26°18 | 4°22 | M 8 |
| T 9 | 21 10 16 | 16°19'31 | 8♑34 | 2°59 | 13°17 | 15°27 | 2°19 | 9°28 | 13°55 | 14°27 | 11°54 | 12°52 | 12°44 | 26°24 | 4°30 | T 9 |
| W10 | 21 14 13 | 17°17'08 | 23°24 | 2°D54 | 14°30 | 16° 6 | 2°26 | 9°35 | 13°54 | 14°26 | 11°55 | 12°44 | 12°41 | 26°31 | 4°38 | W10 |
| T 11 | 21 18 9 | 18°14'47 | 8♒13 | 2°55 | 15°43 | 16°44 | 2°34 | 9°42 | 13°54 | 14°26 | 11°55 | 12°33 | 12°38 | 26°38 | 4°46 | T 11 |
| F 12 | 21 22 6 | 19°12'27 | 22°53 | 3° 4 | 16°56 | 17°23 | 2°41 | 9°49 | 13°53 | 14°25 | 11°56 | 12°22 | 12°35 | 26°44 | 4°55 | F 12 |
| S 13 | 21 26 2 | 20°10'08 | 7♓15 | 3°21 | 18° 8 | 18° 2 | 2°48 | 9°55 | 13°53 | 14°25 | 11°57 | 12°11 | 12°31 | 26°51 | 5° 3 | S 13 |
| S 14 | 21 29 59 | 21° 7'50 | 21°15 | 3°45 | 19°21 | 18°41 | 2°56 | 10° 2 | 13°52 | 14°25 | 11°57 | 12° 2 | 12°28 | 26°58 | 5°12 | S 14 |
| M15 | 21 33 55 | 22° 5'34 | 4♈48 | 4°16 | 20°34 | 19°20 | 3° 4 | 10° 8 | 13°52 | 14°24 | 11°58 | 11°55 | 12°25 | 27° 4 | 5°20 | M15 |
| T 16 | 21 37 52 | 23° 3'20 | 17°55 | 4°55 | 21°47 | 19°59 | 3°12 | 10°15 | 13°51 | 14°24 | 11°58 | 11°51 | 12°22 | 27°11 | 5°28 | T 16 |
| W17 | 21 41 49 | 24° 1'07 | 0♉37 | 5°41 | 22°59 | 20°37 | 3°20 | 10°21 | 13°51 | 14°24 | 11°59 | 11°49 | 12°19 | 27°18 | 5°37 | W17 |
| T 18 | 21 45 45 | 24°58'56 | 12°59 | 6°35 | 24°12 | 21°16 | 3°28 | 10°28 | 13°51 | 14°23 | 11°59 | 11°D48 | 12°16 | 27°24 | 5°45 | T 18 |
| F 19 | 21 49 42 | 25°56'47 | 25° 4 | 7°35 | 25°25 | 21°54 | 3°36 | 10°34 | 13°51 | 14°23 | 12° 0 | 11°R49 | 12°12 | 27°31 | 5°54 | F 19 |
| S 20 | 21 53 38 | 26°54'40 | 6♊59 | 8°42 | 26°38 | 22°33 | 3°44 | 10°40 | 13°50 | 14°23 | 12° 0 | 11°48 | 12° 9 | 27°38 | 6° 2 | S 20 |
| S 21 | 21 57 35 | 27°52'34 | 18°49 | 9°55 | 27°50 | 23°11 | 3°53 | 10°46 | 13°50 | 14°23 | 12° 1 | 11°46 | 12° 6 | 27°45 | 6°11 | S 21 |
| M22 | 22 1 31 | 28°50'31 | 0♋39 | 11°14 | 29° 3 | 23°50 | 4° 1 | 10°52 | 13°50 | 14°22 | 12° 1 | 11°42 | 12° 3 | 27°51 | 6°19 | M22 |
| T 23 | 22 5 28 | 29°48'29 | 12°33 | 12°38 | 0♎15 | 24°28 | 4°10 | 10°58 | 13°D50 | 14°22 | 12° 2 | 11°35 | 12° 0 | 27°58 | 6°28 | T 23 |
| W24 | 22 9 24 | 0♍46'29 | 24°35 | 14° 7 | 1°28 | 25° 7 | 4°19 | 11° 4 | 13°50 | 14°22 | 12° 2 | 11°26 | 11°56 | 28° 5 | 6°36 | W24 |
| T 25 | 22 13 21 | 1°44'30 | 6♌48 | 15°42 | 2°41 | 25°45 | 4°28 | 11°10 | 13°50 | 14°22 | 12° 2 | 11°15 | 11°53 | 28°11 | 6°45 | T 25 |
| F 26 | 22 17 18 | 2°42'34 | 19°14 | 17°20 | 3°53 | 26°23 | 4°37 | 11°16 | 13°50 | 14°D22 | 12° 3 | 11° 3 | 11°50 | 28°18 | 6°53 | F 26 |
| S 27 | 22 21 14 | 3°40'39 | 1♍53 | 19° 2 | 5° 6 | 27° 1 | 4°46 | 11°22 | 13°51 | 14°22 | 12° 3 | 10°51 | 11°47 | 28°25 | 7° 2 | S 27 |
| S 28 | 22 25 11 | 4°38'45 | 14°44 | 20°47 | 6°18 | 27°40 | 4°55 | 11°28 | 13°51 | 14°22 | 12° 3 | 10°40 | 11°44 | 28°31 | 7°10 | S 28 |
| M29 | 22 29 7 | 5°36'54 | 27°49 | 22°34 | 7°30 | 28°18 | 5° 5 | 11°34 | 13°51 | 14°22 | 12° 4 | 10°32 | 11°41 | 28°38 | 7°19 | M29 |
| T 30 | 22 33 4 | 6°35'04 | 11♎ 5 | 24°24 | 8°43 | 28°56 | 5°14 | 11°39 | 13°52 | 14°22 | 12° 4 | 10°26 | 11°37 | 28°45 | 7°28 | T 30 |
| W31 | 22 37 0 | 7♍33'15 | 24♎31 | 26♌16 | 9♎55 | 29♋34 | 5♏24 | 11♋45 | 13♐52 | 14♐22 | 12♊ 4 | 10♉22 | 11♉34 | 28♊51 | 7♍36 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18n 8 | 8n30 | 4n 7 | 13n55 | 4s47 | 11n35 | 1n28 | 23n48 | 0n42 | 11s 0 | 1n 4 | 22n36 | 0s36 | 22s35 | 0s 4 | 21s 9 | 1n27 | 12n26 | 9s53 | 15n51 | 15n49 | 26n53 | 5n44 | 4s52 |
| T 2 | 17 53 | 2 41 | 3 22 | 14 12 | 4 40 | 11 7 | 1 27 | 23 45 | 0 43 | 11 2 | 1 4 | 22 36 | 0 36 | 22 35 | 0 4 | 21 9 | 1 27 | 12 26 | 9 54 | 15 49 | 15 48 | 26 54 | 5 42 | 4 51 |
| W 3 | 17 37 | 3s21 | 2 26 | 14 30 | 4 33 | 10 40 | 1 26 | 23 42 | 0 44 | 11 5 | 1 4 | 22 36 | 0 36 | 22 35 | 0 4 | 21 9 | 1 27 | 12 26 | 9 54 | 15 48 | 15 47 | 26 55 | 5 39 | 4 51 |
| T 4 | 17 22 | 9 22 | 1 21 | 14 48 | 4 23 | 10 11 | 1 25 | 23 40 | 0 44 | 11 7 | 1 4 | 22 35 | 0 36 | 22 35 | 0 4 | 21 9 | 1 27 | 12 26 | 9 54 | 15 47 | 15 46 | 26 55 | 5 37 | 4 51 |
| F 5 | 17 5 | 15 4 | 0 10 | 15 7 | 4 12 | 9 43 | 1 23 | 23 36 | 0 45 | 11 9 | 1 3 | 22 35 | 0 36 | 22 35 | 0 4 | 21 9 | 1 27 | 12 26 | 9 54 | 15 47 | 15 45 | 26 56 | 5 34 | 4 50 |
| S 6 | 16 49 | 20 7 | 1s 3 | 15 26 | 3 59 | 9 14 | 1 22 | 23 33 | 0 45 | 11 12 | 1 3 | 22 34 | 0 36 | 22 35 | 0 4 | 21 9 | 1 27 | 12 26 | 9 54 | 15 47 | 15 44 | 26 57 | 5 32 | 4 50 |
| S 7 | 16 33 | 24 7 | 2 14 | 15 45 | 3 46 | 8 45 | 1 21 | 23 30 | 0 46 | 11 14 | 1 3 | 22 34 | 0 36 | 22 35 | 0 4 | 21 9 | 1 26 | 12 26 | 9 54 | 15 47 | 15 43 | 26 58 | 5 29 | 4 50 |
| M 8 | 16 16 | 26 38 | 3 18 | 16 4 | 3 31 | 8 16 | 1 19 | 23 26 | 0 46 | 11 17 | 1 3 | 22 34 | 0 36 | 22 35 | 0 4 | 21 9 | 1 26 | 12 26 | 9 55 | 15 46 | 15 42 | 26 59 | 5 26 | 4 49 |
| T 9 | 15 58 | 27 21 | 4 9 | 16 22 | 3 15 | 7 47 | 1 18 | 23 22 | 0 47 | 11 20 | 1 2 | 22 33 | 0 36 | 22 35 | 0 4 | 21 9 | 1 26 | 12 26 | 9 55 | 15 44 | 15 41 | 27 0 | 5 24 | 4 49 |
| W10 | 15 41 | 26 7 | 4 44 | 16 39 | 2 59 | 7 17 | 1 16 | 23 18 | 0 48 | 11 22 | 1 2 | 22 33 | 0 36 | 22 35 | 0 4 | 21 9 | 1 26 | 12 26 | 9 55 | 15 41 | 15 40 | 27 0 | 5 21 | 4 49 |
| T 11 | 15 23 | 23 4 | 5 0 | 16 55 | 2 42 | 6 48 | 1 15 | 23 14 | 0 48 | 11 25 | 1 2 | 22 32 | 0 36 | 22 34 | 0 4 | 21 9 | 1 26 | 12 26 | 9 55 | 15 38 | 15 40 | 27 1 | 5 18 | 4 48 |
| F 12 | 15 6 | 18 34 | 4 55 | 17 10 | 2 25 | 6 18 | 1 13 | 23 10 | 0 49 | 11 28 | 1 2 | 22 32 | 0 36 | 22 34 | 0 4 | 21 9 | 1 26 | 12 26 | 9 55 | 15 35 | 15 39 | 27 2 | 5 16 | 4 48 |
| S 13 | 14 47 | 13 5 | 4 33 | 17 23 | 2 7 | 5 48 | 1 11 | 23 5 | 0 49 | 11 30 | 1 2 | 22 31 | 0 36 | 22 34 | 0 4 | 21 9 | 1 26 | 12 26 | 9 55 | 15 31 | 15 38 | 27 3 | 5 13 | 4 48 |
| S 14 | 14 29 | 7 3 | 3 54 | 17 34 | 1 50 | 5 17 | 1 10 | 23 0 | 0 50 | 11 33 | 1 1 | 22 31 | 0 36 | 22 34 | 0 4 | 21 9 | 1 26 | 12 26 | 9 55 | 15 29 | 15 37 | 27 4 | 5 10 | 4 47 |
| M15 | 14 10 | 0 53 | 3 2 | 17 44 | 1 33 | 4 47 | 1 8 | 22 56 | 0 51 | 11 36 | 1 1 | 22 30 | 0 36 | 22 34 | 0 4 | 21 9 | 1 26 | 12 26 | 9 56 | 15 26 | 15 36 | 27 4 | 5 7 | 4 47 |
| T 16 | 13 52 | 5n 9 | 2 3 | 17 51 | 1 16 | 4 16 | 1 6 | 22 50 | 0 51 | 11 39 | 1 1 | 22 30 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 56 | 15 25 | 15 35 | 27 5 | 5 5 | 4 47 |
| W17 | 13 32 | 10 47 | 0 59 | 17 56 | 0 59 | 3 46 | 1 4 | 22 45 | 0 52 | 11 42 | 1 1 | 22 30 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 56 | 15 25 | 15 34 | 27 6 | 5 2 | 4 46 |
| T 18 | 13 13 | 15 52 | 0n 6 | 17 59 | 0 42 | 3 15 | 1 2 | 22 40 | 0 52 | 11 45 | 1 0 | 22 29 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 56 | 15 24 | 15 33 | 27 7 | 4 59 | 4 46 |
| F 19 | 12 54 | 20 12 | 1 10 | 17 59 | 0 27 | 2 44 | 1 0 | 22 34 | 0 53 | 11 48 | 1 0 | 22 29 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 56 | 15 24 | 15 32 | 27 8 | 4 56 | 4 46 |
| S 20 | 12 34 | 23 39 | 2 9 | 17 56 | 0 11 | 2 13 | 0 57 | 22 29 | 0 54 | 11 51 | 1 0 | 22 28 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 56 | 15 24 | 15 31 | 27 8 | 4 53 | 4 46 |
| S 21 | 12 14 | 26 3 | 3 3 | 17 51 | 0n 3 | 1 42 | 0 55 | 22 23 | 0 54 | 11 54 | 1 0 | 22 28 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 57 | 15 24 | 15 30 | 27 9 | 4 50 | 4 45 |
| M22 | 11 54 | 27 18 | 3 49 | 17 42 | 0 17 | 1 11 | 0 53 | 22 17 | 0 55 | 11 57 | 1 0 | 22 27 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 57 | 15 22 | 15 29 | 27 10 | 4 48 | 4 45 |
| T 23 | 11 34 | 27 17 | 4 25 | 17 31 | 0 29 | 0 40 | 0 51 | 22 11 | 0 55 | 12 0 | 0 59 | 22 27 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 57 | 15 20 | 15 28 | 27 10 | 4 45 | 4 45 |
| W24 | 11 13 | 25 59 | 4 49 | 17 17 | 0 41 | 0 9 | 0 48 | 22 4 | 0 56 | 12 3 | 0 59 | 22 26 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 25 | 9 57 | 15 18 | 15 27 | 27 11 | 4 42 | 4 45 |
| T 25 | 10 53 | 23 27 | 5 1 | 16 59 | 0 52 | 0s22 | 0 46 | 21 58 | 0 56 | 12 7 | 0 59 | 22 26 | 0 35 | 22 34 | 0 4 | 21 9 | 1 26 | 12 24 | 9 57 | 15 14 | 15 26 | 27 12 | 4 39 | 4 44 |
| F 26 | 10 32 | 19 49 | 4 59 | 16 39 | 1 2 | 0 53 | 0 43 | 21 51 | 0 57 | 12 10 | 0 59 | 22 26 | 0 35 | 22 34 | 0 4 | 21 9 | 1 25 | 12 24 | 9 57 | 15 10 | 15 25 | 27 13 | 4 36 | 4 44 |
| S 27 | 10 11 | 15 13 | 4 42 | 16 16 | 1 11 | 1 24 | 0 40 | 21 44 | 0 58 | 12 13 | 0 59 | 22 25 | 0 35 | 22 34 | 0 4 | 21 9 | 1 25 | 12 24 | 9 58 | 15 7 | 15 24 | 27 13 | 4 33 | 4 44 |
| S 28 | 9 50 | 9 52 | 4 11 | 15 50 | 1 19 | 1 56 | 0 38 | 21 37 | 0 58 | 12 16 | 0 58 | 22 25 | 0 35 | 22 34 | 0 4 | 21 9 | 1 25 | 12 24 | 9 58 | 15 3 | 15 23 | 27 14 | 4 30 | 4 44 |
| M29 | 9 28 | 4 1 | 3 26 | 15 22 | 1 26 | 2 27 | 0 35 | 21 30 | 0 59 | 12 20 | 0 58 | 22 24 | 0 35 | 22 34 | 0 4 | 21 9 | 1 25 | 12 24 | 9 58 | 15 1 | 15 22 | 27 15 | 4 27 | 4 43 |
| T 30 | 9 7 | 2s 6 | 2 29 | 14 51 | 1 32 | 2 58 | 0 32 | 21 23 | 0 59 | 12 23 | 0 58 | 22 24 | 0 35 | 22 34 | 0 4 | 21 9 | 1 25 | 12 24 | 9 58 | 14 59 | 15 21 | 27 15 | 4 24 | 4 43 |
| W31 | 8n45 | 8s14 | 1n23 | 14n18 | 1n36 | 3s29 | 0n30 | 21n16 | 1n 0 | 12s26 | 0n58 | 22n23 | 0s35 | 22s34 | 0s 4 | 21s10 | 1n25 | 12n24 | 9s58 | 14n58 | 15n20 | 27n16 | 4n21 | 4s43 |

Julian Day Number = 2323922.5, Delta T = 42.91 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'47, Lahiri = 18°58'48Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## SEPTEMBER 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 40 57 | 8♍31'28 | 8♏ 8 | 28♌ 9 | 11♎ 8 | 0♌12 | 5♏34 | 11♋50 | 13♐52 | 14♐23 | 12♊ 5 | 10°D21 | 11♉31 | 28♊58 | 7♍45 | T 1 |
| F 2 | 22 44 53 | 9°29'43 | 21°55 | 0♍ 3 | 12°20 | 0°50 | 5°43 | 11°56 | 13°53 | 14°23 | 12° 5 | 10♉22 | 11°28 | 29° 5 | 7°53 | F 2 |
| S 3 | 22 48 50 | 10°27'59 | 5♐51 | 1°58 | 13°32 | 1°27 | 5°53 | 12° 1 | 13°53 | 14°23 | 12° 5 | 10°R22 | 11°25 | 29°11 | 8° 2 | S 3 |
| S 4 | 22 52 47 | 11°26'17 | 19°58 | 3°53 | 14°44 | 2° 5 | 6° 3 | 12° 6 | 13°54 | 14°23 | 12° 5 | 10°22 | 11°22 | 29°18 | 8°10 | S 4 |
| M 5 | 22 56 43 | 12°24'36 | 4♑14 | 5°48 | 15°57 | 2°43 | 6°13 | 12°11 | 13°55 | 14°24 | 12° 5 | 10°20 | 11°18 | 29°25 | 8°19 | M 5 |
| T 6 | 23 0 40 | 13°22'57 | 18°36 | 7°43 | 17° 9 | 3°21 | 6°23 | 12°16 | 13°55 | 14°24 | 12° 5 | 10°16 | 11°15 | 29°31 | 8°28 | T 6 |
| W 7 | 23 4 36 | 14°21'19 | 3♒ 1 | 9°38 | 18°21 | 3°58 | 6°34 | 12°21 | 13°56 | 14°24 | 12° 6 | 10° 9 | 11°12 | 29°38 | 8°36 | W 7 |
| T 8 | 23 8 33 | 15°19'43 | 17°24 | 11°32 | 19°33 | 4°36 | 6°44 | 12°26 | 13°57 | 14°25 | 12° 6 | 10° 1 | 11° 9 | 29°45 | 8°45 | T 8 |
| F 9 | 23 12 29 | 16°18'09 | 1♓39 | 13°26 | 20°45 | 5°13 | 6°54 | 12°31 | 13°58 | 14°25 | 12° 6 | 9°53 | 11° 6 | 29°52 | 8°53 | F 9 |
| S 10 | 23 16 26 | 17°16'36 | 15°41 | 15°19 | 21°57 | 5°51 | 7° 5 | 12°36 | 13°59 | 14°26 | 12° 6 | 9°44 | 11° 2 | 29°58 | 9° 2 | S 10 |
| S 11 | 23 20 22 | 18°15'06 | 29°26 | 17°11 | 23° 9 | 6°28 | 7°15 | 12°41 | 14° 0 | 14°26 | 12°R 6 | 9°37 | 10°59 | 0♋ 5 | 9°10 | S 11 |
| M12 | 23 24 19 | 19°13'37 | 12♈49 | 19° 3 | 24°21 | 7° 6 | 7°26 | 12°45 | 14° 1 | 14°27 | 12° 6 | 9°32 | 10°56 | 0°12 | 9°19 | M12 |
| T 13 | 23 28 16 | 20°12'10 | 25°50 | 20°53 | 25°33 | 7°43 | 7°37 | 12°50 | 14° 2 | 14°27 | 12° 6 | 9°29 | 10°53 | 0°18 | 9°27 | T 13 |
| W14 | 23 32 12 | 21°10'46 | 8♉30 | 22°43 | 26°45 | 8°20 | 7°48 | 12°54 | 14° 3 | 14°28 | 12° 6 | 9°D28 | 10°50 | 0°25 | 9°36 | W14 |
| T 15 | 23 36 9 | 22° 9'23 | 20°52 | 24°31 | 27°57 | 8°58 | 7°59 | 12°59 | 14° 4 | 14°28 | 12° 6 | 9°28 | 10°47 | 0°32 | 9°44 | T 15 |
| F 16 | 23 40 5 | 23° 8'03 | 2♊59 | 26°19 | 29° 9 | 9°35 | 8°10 | 13° 3 | 14° 5 | 14°29 | 12° 6 | 9°30 | 10°43 | 0°38 | 9°53 | F 16 |
| S 17 | 23 44 2 | 24° 6'46 | 14°55 | 28° 5 | 0♏21 | 10°12 | 8°21 | 13° 7 | 14° 6 | 14°30 | 12° 5 | 9°31 | 10°40 | 0°45 | 10° 1 | S 17 |
| S 18 | 23 47 58 | 25° 5'30 | 26°46 | 29°51 | 1°32 | 10°49 | 8°32 | 13°11 | 14° 8 | 14°30 | 12° 5 | 9°R31 | 10°37 | 0°52 | 10°10 | S 18 |
| M19 | 23 51 55 | 26° 4'17 | 8♋38 | 1♎36 | 2°44 | 11°26 | 8°43 | 13°15 | 14° 9 | 14°31 | 12° 5 | 9°30 | 10°34 | 0°58 | 10°18 | M19 |
| T 20 | 23 55 51 | 27° 3'06 | 20°34 | 3°20 | 3°56 | 12° 3 | 8°55 | 13°19 | 14°10 | 14°32 | 12° 5 | 9°28 | 10°31 | 1° 5 | 10°27 | T 20 |
| W21 | 23 59 48 | 28° 1'57 | 2♌39 | 5° 2 | 5° 7 | 12°40 | 9° 6 | 13°23 | 14°12 | 14°33 | 12° 5 | 9°23 | 10°27 | 1°12 | 10°35 | W21 |
| T 22 | 0 3 45 | 29° 0'51 | 14°58 | 6°44 | 6°19 | 13°17 | 9°17 | 13°27 | 14°13 | 14°34 | 12° 5 | 9°17 | 10°24 | 1°19 | 10°43 | T 22 |
| F 23 | 0 7 41 | 29°59'46 | 27°32 | 8°25 | 7°30 | 13°54 | 9°29 | 13°30 | 14°15 | 14°35 | 12° 4 | 9°10 | 10°21 | 1°25 | 10°52 | F 23 |
| S 24 | 0 11 38 | 0♎58'44 | 10♍24 | 10° 5 | 8°42 | 14°31 | 9°41 | 13°34 | 14°16 | 14°35 | 12° 4 | 9° 4 | 10°18 | 1°32 | 11° 0 | S 24 |
| S 25 | 0 15 34 | 1°57'44 | 23°33 | 11°44 | 9°53 | 15° 7 | 9°52 | 13°37 | 14°18 | 14°36 | 12° 4 | 8°57 | 10°15 | 1°39 | 11° 8 | S 25 |
| M26 | 0 19 31 | 2°56'46 | 6♎59 | 13°23 | 11° 5 | 15°44 | 10° 4 | 13°41 | 14°20 | 14°37 | 12° 3 | 8°53 | 10°12 | 1°45 | 11°16 | M26 |
| T 27 | 0 23 27 | 3°55'50 | 20°39 | 15° 0 | 12°16 | 16°21 | 10°16 | 13°44 | 14°21 | 14°38 | 12° 3 | 8°49 | 10° 8 | 1°52 | 11°25 | T 27 |
| W28 | 0 27 24 | 4°54'56 | 4♏31 | 16°37 | 13°28 | 16°57 | 10°28 | 13°47 | 14°23 | 14°39 | 12° 3 | 8°D48 | 10° 5 | 1°59 | 11°33 | W28 |
| T 29 | 0 31 20 | 5°54'04 | 18°32 | 18°12 | 14°39 | 17°34 | 10°39 | 13°50 | 14°25 | 14°40 | 12° 2 | 8°48 | 10° 2 | 2° 5 | 11°41 | T 29 |
| F 30 | 0 35 17 | 6♎53'14 | 2♐38 | 19♎47 | 15♏50 | 18♌10 | 10♏51 | 13♋53 | 14♐27 | 14♐42 | 12♊ 2 | 8♉50 | 9♉59 | 2♋12 | 11♍49 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n23 | 14s 3 | 0n12 | 13n43 | 1n41 | 4s 0 | 0n27 | 21n 8 | 1n 1 | 12s30 | 0n58 | 22n23 | 0s35 | 22s34 | 0s 4 | 21s10 | 1n25 | 12n24 | 9s58 | 14n57 | 15n19 | 27n17 | 4n18 | 4s43 |
| F 2 | 8 1 | 19 16 | 1s 1 | 13 5 | 1 44 | 4 31 | 0 24 | 21 0 | 1 1 | 12 33 | 0 57 | 22 22 | 0 35 | 22 34 | 0 4 | 21 10 | 1 25 | 12 23 | 9 59 | 14 57 | 15 18 | 27 17 | 4 15 | 4 43 |
| S 3 | 7 39 | 23 29 | 2 12 | 12 27 | 1 46 | 5 2 | 0 21 | 20 53 | 1 2 | 12 37 | 0 57 | 22 22 | 0 35 | 22 35 | 0 4 | 21 10 | 1 25 | 12 23 | 9 59 | 14 58 | 15 17 | 27 18 | 4 12 | 4 43 |
| S 4 | 7 17 | 26 21 | 3 15 | 11 46 | 1 47 | 5 33 | 0 18 | 20 45 | 1 2 | 12 40 | 0 57 | 22 22 | 0 35 | 22 35 | 0 4 | 21 10 | 1 25 | 12 23 | 9 59 | 14 57 | 15 16 | 27 19 | 4 9 | 4 42 |
| M 5 | 6 55 | 27 32 | 4 7 | 11 4 | 1 48 | 6 3 | 0 15 | 20 37 | 1 3 | 12 44 | 0 57 | 22 21 | 0 35 | 22 35 | 0 4 | 21 10 | 1 25 | 12 23 | 9 59 | 14 57 | 15 15 | 27 19 | 4 6 | 4 42 |
| T 6 | 6 33 | 26 53 | 4 44 | 10 22 | 1 48 | 6 34 | 0 12 | 20 28 | 1 3 | 12 47 | 0 57 | 22 21 | 0 35 | 22 35 | 0 4 | 21 10 | 1 25 | 12 23 | 9 59 | 14 56 | 15 14 | 27 20 | 4 3 | 4 42 |
| W 7 | 6 10 | 24 26 | 5 3 | 9 38 | 1 47 | 7 4 | 0 9 | 20 20 | 1 4 | 12 51 | 0 57 | 22 20 | 0 35 | 22 35 | 0 4 | 21 10 | 1 25 | 12 23 | 10 0 | 14 54 | 15 13 | 27 20 | 4 0 | 4 42 |
| T 8 | 5 48 | 20 27 | 5 3 | 8 53 | 1 46 | 7 35 | 0 6 | 20 12 | 1 5 | 12 54 | 0 56 | 22 20 | 0 35 | 22 35 | 0 4 | 21 10 | 1 25 | 12 22 | 10 0 | 14 51 | 15 12 | 27 21 | 3 57 | 4 42 |
| F 9 | 5 25 | 15 19 | 4 44 | 8 7 | 1 44 | 8 5 | 0 2 | 20 3 | 1 5 | 12 58 | 0 56 | 22 19 | 0 35 | 22 35 | 0 4 | 21 10 | 1 25 | 12 22 | 10 0 | 14 48 | 15 11 | 27 22 | 3 54 | 4 42 |
| S 10 | 5 2 | 9 27 | 4 8 | 7 21 | 1 41 | 8 35 | 0s 1 | 19 54 | 1 6 | 13 1 | 0 56 | 22 19 | 0 34 | 22 35 | 0 4 | 21 10 | 1 25 | 12 22 | 10 0 | 14 46 | 15 10 | 27 22 | 3 51 | 4 42 |
| S 11 | 4 39 | 3 15 | 3 18 | 6 35 | 1 39 | 9 5 | 0 4 | 19 46 | 1 6 | 13 5 | 0 56 | 22 19 | 0 34 | 22 35 | 0 4 | 21 11 | 1 25 | 12 22 | 10 0 | 14 43 | 15 9 | 27 23 | 3 48 | 4 41 |
| M12 | 4 16 | 2n57 | 2 18 | 5 48 | 1 35 | 9 34 | 0 7 | 19 37 | 1 7 | 13 9 | 0 56 | 22 18 | 0 34 | 22 35 | 0 4 | 21 11 | 1 25 | 12 22 | 10 0 | 14 42 | 15 8 | 27 23 | 3 45 | 4 41 |
| T 13 | 3 53 | 8 52 | 1 13 | 5 1 | 1 31 | 10 4 | 0 11 | 19 28 | 1 7 | 13 12 | 0 56 | 22 18 | 0 34 | 22 36 | 0 4 | 21 11 | 1 24 | 12 22 | 10 1 | 14 41 | 15 7 | 27 24 | 3 42 | 4 41 |
| W14 | 3 30 | 14 17 | 0 5 | 4 14 | 1 27 | 10 33 | 0 14 | 19 19 | 1 8 | 13 16 | 0 55 | 22 17 | 0 34 | 22 36 | 0 4 | 21 11 | 1 24 | 12 21 | 10 1 | 14 40 | 15 6 | 27 24 | 3 39 | 4 41 |
| T 15 | 3 7 | 18 59 | 1n 1 | 3 26 | 1 22 | 11 2 | 0 17 | 19 9 | 1 9 | 13 20 | 0 55 | 22 17 | 0 34 | 22 36 | 0 4 | 21 11 | 1 24 | 12 21 | 10 1 | 14 41 | 15 5 | 27 25 | 3 36 | 4 41 |
| F 16 | 2 44 | 22 49 | 2 4 | 2 39 | 1 17 | 11 31 | 0 21 | 19 0 | 1 9 | 13 23 | 0 55 | 22 17 | 0 34 | 22 36 | 0 4 | 21 11 | 1 24 | 12 21 | 10 1 | 14 41 | 15 4 | 27 26 | 3 33 | 4 41 |
| S 17 | 2 21 | 25 37 | 3 0 | 1 52 | 1 12 | 11 59 | 0 24 | 18 50 | 1 10 | 13 27 | 0 55 | 22 16 | 0 34 | 22 36 | 0 4 | 21 11 | 1 24 | 12 21 | 10 1 | 14 41 | 15 3 | 27 26 | 3 29 | 4 41 |
| S 18 | 1 57 | 27 15 | 3 48 | 1 5 | 1 7 | 12 28 | 0 27 | 18 41 | 1 10 | 13 31 | 0 55 | 22 16 | 0 34 | 22 36 | 0 4 | 21 11 | 1 24 | 12 21 | 10 1 | 14 42 | 15 2 | 27 27 | 3 26 | 4 41 |
| M19 | 1 34 | 27 38 | 4 26 | 0 18 | 1 1 | 12 56 | 0 31 | 18 31 | 1 11 | 13 34 | 0 55 | 22 16 | 0 34 | 22 36 | 0 4 | 21 12 | 1 24 | 12 20 | 10 2 | 14 41 | 15 1 | 27 27 | 3 23 | 4 41 |
| T 20 | 1 10 | 26 44 | 4 53 | 0s29 | 0 55 | 13 23 | 0 34 | 18 21 | 1 11 | 13 38 | 0 54 | 22 15 | 0 34 | 22 37 | 0 4 | 21 12 | 1 24 | 12 20 | 10 2 | 14 40 | 15 0 | 27 28 | 3 20 | 4 41 |
| W21 | 0 47 | 24 35 | 5 7 | 1 15 | 0 49 | 13 51 | 0 38 | 18 11 | 1 12 | 13 42 | 0 54 | 22 15 | 0 34 | 22 37 | 0 4 | 21 12 | 1 24 | 12 20 | 10 2 | 14 39 | 14 59 | 27 28 | 3 17 | 4 41 |
| T 22 | 0 24 | 21 17 | 5 8 | 2 2 | 0 43 | 14 18 | 0 41 | 18 1 | 1 13 | 13 46 | 0 54 | 22 15 | 0 34 | 22 37 | 0 4 | 21 12 | 1 24 | 12 20 | 10 2 | 14 37 | 14 58 | 27 29 | 3 14 | 4 41 |
| F 23 | 0 0 | 16 57 | 4 54 | 2 47 | 0 36 | 14 45 | 0 45 | 17 51 | 1 13 | 13 50 | 0 54 | 22 14 | 0 34 | 22 37 | 0 4 | 21 12 | 1 24 | 12 20 | 10 2 | 14 35 | 14 57 | 27 29 | 3 11 | 4 40 |
| S 24 | 0s23 | 11 46 | 4 25 | 3 33 | 0 30 | 15 11 | 0 48 | 17 41 | 1 14 | 13 53 | 0 54 | 22 14 | 0 34 | 22 37 | 0 4 | 21 12 | 1 24 | 12 20 | 10 2 | 14 33 | 14 56 | 27 30 | 3 8 | 4 40 |
| S 25 | 0 47 | 5 57 | 3 41 | 4 18 | 0 23 | 15 37 | 0 51 | 17 31 | 1 14 | 13 57 | 0 54 | 22 14 | 0 34 | 22 38 | 0 4 | 21 12 | 1 24 | 12 19 | 10 3 | 14 31 | 14 55 | 27 30 | 3 5 | 4 40 |
| M26 | 1 10 | 0s15 | 2 45 | 5 3 | 0 16 | 16 3 | 0 55 | 17 21 | 1 15 | 14 1 | 0 54 | 22 13 | 0 34 | 22 38 | 0 4 | 21 13 | 1 24 | 12 19 | 10 3 | 14 29 | 14 54 | 27 31 | 3 2 | 4 40 |
| T 27 | 1 34 | 6 35 | 1 37 | 5 47 | 0 9 | 16 29 | 0 58 | 17 10 | 1 15 | 14 5 | 0 53 | 22 13 | 0 34 | 22 38 | 0 4 | 21 13 | 1 24 | 12 19 | 10 3 | 14 28 | 14 53 | 27 31 | 2 58 | 4 40 |
| W28 | 1 57 | 12 41 | 0 23 | 6 30 | 0 2 | 16 54 | 1 2 | 17 0 | 1 16 | 14 9 | 0 53 | 22 13 | 0 34 | 22 38 | 0 4 | 21 13 | 1 24 | 12 19 | 10 3 | 14 28 | 14 52 | 27 31 | 2 55 | 4 40 |
| T 29 | 2 21 | 18 13 | 0s53 | 7 14 | 0s 5 | 17 18 | 1 5 | 16 49 | 1 17 | 14 13 | 0 53 | 22 12 | 0 34 | 22 38 | 0 4 | 21 13 | 1 24 | 12 18 | 10 3 | 14 28 | 14 51 | 27 32 | 2 52 | 4 40 |
| F 30 | 2s44 | 22s48 | 2s 7 | 7s56 | 0s12 | 17s42 | 1s 9 | 16n38 | 1n17 | 14s16 | 0n53 | 22n12 | 0s34 | 22s39 | 0s 4 | 21s13 | 1n24 | 12n18 | 10s 3 | 14n28 | 14n50 | 27n32 | 2n49 | 4s40 |

Julian Day Number = 2323953.5, Delta T = 42.85 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'52, Lahiri = 18°58'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## OCTOBER 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 39 13 | 7♎52'25 | 16♐48 | 21♎22 | 17♏ 1 | 18♌47 | 11♏ 4 | 13♋56 | 14♐29 | 14♐43 | 12°R 2 | 8♉51 | 9♉56 | 2♋19 | 11♍57 | S 1 |
| S 2 | 0 43 10 | 8°51'39 | 1♑ 0 | 22°55 | 18°12 | 19°23 | 11°16 | 13°59 | 14°31 | 14°44 | 12♊ 1 | 8°52 | 9°53 | 2°25 | 12° 5 | S 2 |
| M 3 | 0 47 7 | 9°50'54 | 15°11 | 24°28 | 19°24 | 19°59 | 11°28 | 14° 1 | 14°33 | 14°45 | 12° 1 | 8°R52 | 9°49 | 2°32 | 12°13 | M 3 |
| T 4 | 0 51 3 | 10°50'11 | 29°19 | 25°59 | 20°35 | 20°35 | 11°40 | 14° 4 | 14°35 | 14°46 | 12° 0 | 8°51 | 9°46 | 2°39 | 12°21 | T 4 |
| W 5 | 0 55 0 | 11°49'30 | 13♒23 | 27°30 | 21°46 | 21°11 | 11°52 | 14° 6 | 14°37 | 14°47 | 12° 0 | 8°49 | 9°43 | 2°46 | 12°29 | W 5 |
| T 6 | 0 58 56 | 12°48'50 | 27°19 | 29° 1 | 22°56 | 21°48 | 12° 5 | 14° 9 | 14°39 | 14°49 | 11°59 | 8°45 | 9°40 | 2°52 | 12°37 | T 6 |
| F 7 | 1 2 53 | 13°48'13 | 11♓ 7 | 0♏30 | 24° 7 | 22°24 | 12°17 | 14°11 | 14°41 | 14°50 | 11°59 | 8°42 | 9°37 | 2°59 | 12°45 | F 7 |
| S 8 | 1 6 49 | 14°47'37 | 24°42 | 1°59 | 25°18 | 22°59 | 12°29 | 14°13 | 14°43 | 14°51 | 11°58 | 8°38 | 9°33 | 3° 6 | 12°53 | S 8 |
| S 9 | 1 10 46 | 15°47'03 | 8♈ 2 | 3°27 | 26°29 | 23°35 | 12°42 | 14°15 | 14°46 | 14°53 | 11°58 | 8°35 | 9°30 | 3°12 | 13° 1 | S 9 |
| M10 | 1 14 42 | 16°46'31 | 21° 7 | 4°54 | 27°39 | 24°11 | 12°54 | 14°17 | 14°48 | 14°54 | 11°57 | 8°33 | 9°27 | 3°19 | 13° 9 | M10 |
| T 11 | 1 18 39 | 17°46'01 | 3♉55 | 6°21 | 28°50 | 24°47 | 13° 7 | 14°19 | 14°50 | 14°55 | 11°57 | 8°D32 | 9°24 | 3°26 | 13°16 | T 11 |
| W12 | 1 22 36 | 18°45'34 | 16°27 | 7°47 | 0♐ 0 | 25°23 | 13°19 | 14°20 | 14°53 | 14°57 | 11°56 | 8°32 | 9°21 | 3°32 | 13°24 | W12 |
| T 13 | 1 26 32 | 19°45'08 | 28°44 | 9°11 | 1°11 | 25°58 | 13°32 | 14°22 | 14°55 | 14°58 | 11°55 | 8°33 | 9°18 | 3°39 | 13°32 | T 13 |
| F 14 | 1 30 29 | 20°44'45 | 10♊50 | 10°35 | 2°21 | 26°34 | 13°45 | 14°23 | 14°58 | 15° 0 | 11°55 | 8°34 | 9°14 | 3°46 | 13°39 | F 14 |
| S 15 | 1 34 25 | 21°44'24 | 22°46 | 11°59 | 3°32 | 27° 9 | 13°57 | 14°25 | 15° 0 | 15° 1 | 11°54 | 8°36 | 9°11 | 3°53 | 13°47 | S 15 |
| S 16 | 1 38 22 | 22°44'05 | 4♋38 | 13°21 | 4°42 | 27°45 | 14°10 | 14°26 | 15° 3 | 15° 3 | 11°53 | 8°37 | 9° 8 | 3°59 | 13°54 | S 16 |
| M17 | 1 42 18 | 23°43'49 | 16°29 | 14°42 | 5°52 | 28°20 | 14°23 | 14°27 | 15° 5 | 15° 4 | 11°53 | 8°38 | 9° 5 | 4° 6 | 14° 2 | M17 |
| T 18 | 1 46 15 | 24°43'35 | 28°25 | 16° 2 | 7° 2 | 28°56 | 14°36 | 14°28 | 15° 8 | 15° 6 | 11°52 | 8°R38 | 9° 2 | 4°13 | 14° 9 | T 18 |
| W19 | 1 50 11 | 25°43'23 | 10♌30 | 17°21 | 8°12 | 29°31 | 14°49 | 14°29 | 15°11 | 15° 8 | 11°51 | 8°38 | 8°59 | 4°19 | 14°17 | W19 |
| T 20 | 1 54 8 | 26°43'13 | 22°48 | 18°39 | 9°22 | 0♍ 6 | 15° 2 | 14°30 | 15°13 | 15° 9 | 11°50 | 8°36 | 8°55 | 4°26 | 14°24 | T 20 |
| F 21 | 1 58 5 | 27°43'06 | 5♍25 | 19°56 | 10°32 | 0°41 | 15°15 | 14°31 | 15°16 | 15°11 | 11°50 | 8°35 | 8°52 | 4°33 | 14°31 | F 21 |
| S 22 | 2 2 1 | 28°43'00 | 18°22 | 21°11 | 11°42 | 1°16 | 15°28 | 14°31 | 15°19 | 15°13 | 11°49 | 8°34 | 8°49 | 4°39 | 14°38 | S 22 |
| S 23 | 2 5 58 | 29°42'57 | 1♎41 | 22°25 | 12°51 | 1°51 | 15°40 | 14°32 | 15°21 | 15°14 | 11°48 | 8°32 | 8°46 | 4°46 | 14°45 | S 23 |
| M24 | 2 9 54 | 0♏42'56 | 15°22 | 23°37 | 14° 1 | 2°26 | 15°54 | 14°32 | 15°24 | 15°16 | 11°47 | 8°32 | 8°43 | 4°53 | 14°52 | M24 |
| T 25 | 2 13 51 | 1°42'57 | 29°23 | 24°48 | 15°10 | 3° 1 | 16° 7 | 14°32 | 15°27 | 15°18 | 11°46 | 8°31 | 8°39 | 4°59 | 14°59 | T 25 |
| W26 | 2 17 47 | 2°42'59 | 13♏41 | 25°56 | 16°20 | 3°36 | 16°20 | 14°33 | 15°30 | 15°20 | 11°46 | 8°D31 | 8°36 | 5° 6 | 15° 6 | W26 |
| T 27 | 2 21 44 | 3°43'04 | 28°10 | 27° 2 | 17°29 | 4°10 | 16°33 | 14°R33 | 15°33 | 15°21 | 11°45 | 8°31 | 8°33 | 5°13 | 15°13 | T 27 |
| F 28 | 2 25 40 | 4°43'11 | 12♐45 | 28° 5 | 18°38 | 4°45 | 16°46 | 14°33 | 15°36 | 15°23 | 11°44 | 8°32 | 8°30 | 5°20 | 15°20 | F 28 |
| S 29 | 2 29 37 | 5°43'19 | 27°19 | 29° 6 | 19°47 | 5°19 | 16°59 | 14°32 | 15°39 | 15°25 | 11°43 | 8°32 | 8°27 | 5°26 | 15°27 | S 29 |
| S 30 | 2 33 34 | 6°43'29 | 11♑48 | 0♐ 4 | 20°56 | 5°54 | 17°12 | 14°32 | 15°42 | 15°27 | 11°42 | 8°32 | 8°24 | 5°33 | 15°33 | S 30 |
| M31 | 2 37 30 | 7♏43'40 | 26♑ 7 | 0♐58 | 22♐ 5 | 6♍28 | 17♏25 | 14♋32 | 15♐45 | 15♐29 | 11♊41 | 8♉32 | 8♉20 | 5♋40 | 15♍40 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s 8 | 26s 2 | 3s13 | 8s38 | 0s19 | 18s 6 | 1s12 | 16n27 | 1n18 | 14s20 | 0n53 | 22n12 | 0s34 | 22s39 | 0s 4 | 21s13 | 1n24 | 12n18 | 10s 4 | 14n29 | 14n49 | 27n33 | 2n46 | 4s40 |
| S 2 | 3 31 | 27 37 | 4 8 | 9 20 | 0 26 | 18 30 | 1 16 | 16 17 | 1 18 | 14 24 | 0 53 | 22 12 | 0 34 | 22 39 | 0 4 | 21 14 | 1 24 | 12 18 | 10 4 | 14 29 | 14 48 | 27 33 | 2 43 | 4 40 |
| M 3 | 3 55 | 27 22 | 4 47 | 10 1 | 0 33 | 18 53 | 1 19 | 16 6 | 1 19 | 14 28 | 0 53 | 22 11 | 0 34 | 22 39 | 0 4 | 21 14 | 1 23 | 12 18 | 10 4 | 14 29 | 14 47 | 27 34 | 2 40 | 4 40 |
| T 4 | 4 18 | 25 22 | 5 9 | 10 41 | 0 40 | 19 15 | 1 22 | 15 55 | 1 19 | 14 32 | 0 52 | 22 11 | 0 34 | 22 40 | 0 4 | 21 14 | 1 23 | 12 17 | 10 4 | 14 29 | 14 46 | 27 34 | 2 37 | 4 40 |
| W 5 | 4 41 | 21 49 | 5 12 | 11 20 | 0 47 | 19 37 | 1 26 | 15 44 | 1 20 | 14 36 | 0 52 | 22 11 | 0 34 | 22 40 | 0 4 | 21 14 | 1 23 | 12 17 | 10 4 | 14 28 | 14 45 | 27 34 | 2 34 | 4 41 |
| T 6 | 5 4 | 17 4 | 4 57 | 11 59 | 0 54 | 19 59 | 1 29 | 15 33 | 1 21 | 14 40 | 0 52 | 22 11 | 0 34 | 22 40 | 0 4 | 21 14 | 1 23 | 12 17 | 10 4 | 14 27 | 14 44 | 27 35 | 2 31 | 4 41 |
| F 7 | 5 27 | 11 30 | 4 25 | 12 38 | 1 1 | 20 20 | 1 32 | 15 21 | 1 21 | 14 44 | 0 52 | 22 10 | 0 34 | 22 40 | 0 4 | 21 15 | 1 23 | 12 17 | 10 5 | 14 26 | 14 43 | 27 35 | 2 28 | 4 41 |
| S 8 | 5 50 | 5 27 | 3 38 | 13 15 | 1 8 | 20 40 | 1 36 | 15 10 | 1 22 | 14 47 | 0 52 | 22 10 | 0 34 | 22 41 | 0 4 | 21 15 | 1 23 | 12 17 | 10 5 | 14 24 | 14 42 | 27 35 | 2 25 | 4 41 |
| S 9 | 6 13 | 0n45 | 2 40 | 13 52 | 1 15 | 21 0 | 1 39 | 14 59 | 1 22 | 14 51 | 0 52 | 22 10 | 0 33 | 22 41 | 0 4 | 21 15 | 1 23 | 12 16 | 10 5 | 14 23 | 14 41 | 27 36 | 2 22 | 4 41 |
| M10 | 6 36 | 6 48 | 1 34 | 14 28 | 1 22 | 21 20 | 1 42 | 14 47 | 1 23 | 14 55 | 0 52 | 22 10 | 0 33 | 22 41 | 0 4 | 21 15 | 1 23 | 12 16 | 10 5 | 14 23 | 14 40 | 27 36 | 2 19 | 4 41 |
| T 11 | 6 59 | 12 27 | 0 25 | 15 3 | 1 28 | 21 39 | 1 45 | 14 36 | 1 24 | 14 59 | 0 52 | 22 10 | 0 33 | 22 41 | 0 4 | 21 15 | 1 23 | 12 16 | 10 5 | 14 22 | 14 39 | 27 37 | 2 16 | 4 41 |
| W12 | 7 22 | 17 29 | 0n44 | 15 37 | 1 35 | 21 57 | 1 48 | 14 24 | 1 24 | 15 3 | 0 51 | 22 10 | 0 33 | 22 42 | 0 4 | 21 16 | 1 23 | 12 16 | 10 5 | 14 23 | 14 38 | 27 37 | 2 13 | 4 41 |
| T 13 | 7 44 | 21 42 | 1 49 | 16 11 | 1 41 | 22 15 | 1 52 | 14 13 | 1 25 | 15 7 | 0 51 | 22 9 | 0 33 | 22 42 | 0 4 | 21 16 | 1 23 | 12 16 | 10 5 | 14 23 | 14 37 | 27 37 | 2 10 | 4 41 |
| F 14 | 8 7 | 24 54 | 2 49 | 16 44 | 1 47 | 22 33 | 1 55 | 14 1 | 1 25 | 15 11 | 0 51 | 22 9 | 0 33 | 22 42 | 0 4 | 21 16 | 1 23 | 12 15 | 10 6 | 14 23 | 14 36 | 27 38 | 2 7 | 4 41 |
| S 15 | 8 29 | 26 58 | 3 41 | 17 15 | 1 53 | 22 49 | 1 58 | 13 50 | 1 26 | 15 15 | 0 51 | 22 9 | 0 33 | 22 43 | 0 4 | 21 16 | 1 23 | 12 15 | 10 6 | 14 24 | 14 35 | 27 38 | 2 4 | 4 41 |
| S 16 | 8 52 | 27 47 | 4 22 | 17 46 | 1 59 | 23 6 | 2 1 | 13 38 | 1 26 | 15 19 | 0 51 | 22 9 | 0 33 | 22 43 | 0 4 | 21 16 | 1 23 | 12 15 | 10 6 | 14 24 | 14 34 | 27 38 | 2 1 | 4 41 |
| M17 | 9 14 | 27 19 | 4 53 | 18 16 | 2 5 | 23 21 | 2 3 | 13 26 | 1 27 | 15 22 | 0 51 | 22 9 | 0 33 | 22 43 | 0 4 | 21 17 | 1 23 | 12 15 | 10 6 | 14 24 | 14 33 | 27 38 | 1 58 | 4 41 |
| T 18 | 9 36 | 25 36 | 5 11 | 18 45 | 2 10 | 23 36 | 2 6 | 13 14 | 1 28 | 15 26 | 0 51 | 22 9 | 0 33 | 22 43 | 0 4 | 21 17 | 1 23 | 12 14 | 10 6 | 14 24 | 14 32 | 27 39 | 1 55 | 4 42 |
| W19 | 9 58 | 22 42 | 5 16 | 19 13 | 2 16 | 23 51 | 2 9 | 13 3 | 1 28 | 15 30 | 0 51 | 22 9 | 0 33 | 22 44 | 0 4 | 21 17 | 1 23 | 12 14 | 10 6 | 14 24 | 14 31 | 27 39 | 1 52 | 4 42 |
| T 20 | 10 19 | 18 46 | 5 7 | 19 40 | 2 21 | 24 4 | 2 12 | 12 51 | 1 29 | 15 34 | 0 51 | 22 9 | 0 33 | 22 44 | 0 4 | 21 17 | 1 23 | 12 14 | 10 6 | 14 24 | 14 30 | 27 39 | 1 49 | 4 42 |
| F 21 | 10 41 | 13 55 | 4 43 | 20 5 | 2 25 | 24 17 | 2 15 | 12 39 | 1 29 | 15 38 | 0 51 | 22 9 | 0 33 | 22 44 | 0 4 | 21 18 | 1 23 | 12 14 | 10 6 | 14 24 | 14 29 | 27 40 | 1 46 | 4 42 |
| S 22 | 11 2 | 8 20 | 4 3 | 20 30 | 2 30 | 24 30 | 2 17 | 12 27 | 1 30 | 15 42 | 0 50 | 22 9 | 0 33 | 22 45 | 0 4 | 21 18 | 1 23 | 12 14 | 10 6 | 14 23 | 14 28 | 27 40 | 1 43 | 4 42 |
| S 23 | 11 24 | 2 14 | 3 10 | 20 53 | 2 34 | 24 42 | 2 20 | 12 15 | 1 31 | 15 46 | 0 50 | 22 9 | 0 33 | 22 45 | 0 4 | 21 18 | 1 23 | 12 13 | 10 7 | 14 23 | 14 27 | 27 40 | 1 40 | 4 42 |
| M24 | 11 45 | 4s 9 | 2 5 | 21 15 | 2 38 | 24 53 | 2 22 | 12 3 | 1 31 | 15 50 | 0 50 | 22 9 | 0 33 | 22 45 | 0 4 | 21 18 | 1 23 | 12 13 | 10 7 | 14 22 | 14 26 | 27 40 | 1 38 | 4 42 |
| T 25 | 12 6 | 10 29 | 0 50 | 21 36 | 2 41 | 25 3 | 2 25 | 11 51 | 1 32 | 15 53 | 0 50 | 22 9 | 0 33 | 22 46 | 0 4 | 21 18 | 1 23 | 12 13 | 10 7 | 14 22 | 14 25 | 27 41 | 1 35 | 4 43 |
| W26 | 12 26 | 16 26 | 0s29 | 21 56 | 2 44 | 25 13 | 2 27 | 11 39 | 1 32 | 15 57 | 0 50 | 22 9 | 0 33 | 22 46 | 0 4 | 21 19 | 1 22 | 12 13 | 10 7 | 14 22 | 14 24 | 27 41 | 1 32 | 4 43 |
| T 27 | 12 47 | 21 32 | 1 47 | 22 14 | 2 46 | 25 22 | 2 29 | 11 27 | 1 33 | 16 1 | 0 50 | 22 9 | 0 33 | 22 46 | 0 4 | 21 19 | 1 22 | 12 13 | 10 7 | 14 22 | 14 23 | 27 41 | 1 29 | 4 43 |
| F 28 | 13 7 | 25 19 | 2 59 | 22 30 | 2 48 | 25 31 | 2 32 | 11 14 | 1 34 | 16 5 | 0 50 | 22 9 | 0 33 | 22 47 | 0 4 | 21 19 | 1 22 | 12 12 | 10 7 | 14 22 | 14 22 | 27 41 | 1 26 | 4 43 |
| S 29 | 13 27 | 27 26 | 3 59 | 22 45 | 2 49 | 25 39 | 2 34 | 11 2 | 1 34 | 16 9 | 0 50 | 22 9 | 0 33 | 22 47 | 0 4 | 21 19 | 1 22 | 12 12 | 10 7 | 14 23 | 14 21 | 27 41 | 1 24 | 4 43 |
| S 30 | 13 47 | 27 40 | 4 43 | 22 58 | 2 50 | 25 46 | 2 36 | 10 50 | 1 35 | 16 13 | 0 50 | 22 9 | 0 33 | 22 47 | 0 4 | 21 20 | 1 22 | 12 12 | 10 7 | 14 23 | 14 20 | 27 42 | 1 21 | 4 43 |
| M31 | 14s 7 | 26s 2 | 5s10 | 23s10 | 2s50 | 25s52 | 2s38 | 10n38 | 1n35 | 16s16 | 0n50 | 22n 9 | 0s33 | 22s48 | 0s 4 | 21s20 | 1n22 | 12n12 | 10s 7 | 14n23 | 14n19 | 27n42 | 1n18 | 4s44 |

Julian Day Number = 2323983.5, Delta T = 42.79 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°51'56, Lahiri = 18°58'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## NOVEMBER 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 41 27 | 8♏43'53 | 10♒14 | 1♐49 | 23♐14 | 7♍ 2 | 17♏39 | 14°R31 | 15♐48 | 15♐31 | 11°R40 | 8♉32 | 8♉17 | 5♋46 | 15♍46 | T 1 |
| W 2 | 2 45 23 | 9°44'07 | 24° 7 | 2°35 | 24°23 | 7°36 | 17°52 | 14♋30 | 15°51 | 15°32 | 11♊39 | 8°32 | 8°14 | 5°53 | 15°53 | W 2 |
| T 3 | 2 49 20 | 10°44'23 | 7♓45 | 3°16 | 25°31 | 8°10 | 18° 5 | 14°30 | 15°54 | 15°34 | 11°38 | 8°32 | 8°11 | 6° 0 | 15°59 | T 3 |
| F 4 | 2 53 16 | 11°44'40 | 21° 8 | 3°51 | 26°40 | 8°44 | 18°18 | 14°29 | 15°57 | 15°36 | 11°37 | 8°33 | 8° 8 | 6° 7 | 16° 6 | F 4 |
| S 5 | 2 57 13 | 12°44'59 | 4♈18 | 4°21 | 27°48 | 9°18 | 18°32 | 14°28 | 16° 1 | 15°38 | 11°36 | 8°33 | 8° 4 | 6°13 | 16°12 | S 5 |
| S 6 | 3 1 9 | 13°45'19 | 17°13 | 4°44 | 28°56 | 9°52 | 18°45 | 14°27 | 16° 4 | 15°40 | 11°35 | 8°34 | 8° 1 | 6°20 | 16°18 | S 6 |
| M 7 | 3 5 6 | 14°45'41 | 29°56 | 5° 0 | 0♑ 4 | 10°26 | 18°58 | 14°25 | 16° 7 | 15°42 | 11°34 | 8°34 | 7°58 | 6°27 | 16°24 | M 7 |
| T 8 | 3 9 3 | 15°46'04 | 12♉27 | 5°R 7 | 1°12 | 10°59 | 19°11 | 14°24 | 16°10 | 15°44 | 11°33 | 8°R34 | 7°55 | 6°33 | 16°30 | T 8 |
| W 9 | 3 12 59 | 16°46'29 | 24°46 | 5° 6 | 2°19 | 11°33 | 19°25 | 14°23 | 16°14 | 15°46 | 11°32 | 8°34 | 7°52 | 6°40 | 16°36 | W 9 |
| T 10 | 3 16 56 | 17°46'56 | 6♊55 | 4°55 | 3°27 | 12° 6 | 19°38 | 14°21 | 16°17 | 15°48 | 11°31 | 8°33 | 7°49 | 6°47 | 16°42 | T 10 |
| F 11 | 3 20 52 | 18°47'24 | 18°56 | 4°34 | 4°34 | 12°40 | 19°51 | 14°20 | 16°20 | 15°50 | 11°30 | 8°32 | 7°45 | 6°53 | 16°48 | F 11 |
| S 12 | 3 24 49 | 19°47'55 | 0♋51 | 4° 3 | 5°41 | 13°13 | 20° 5 | 14°18 | 16°24 | 15°52 | 11°29 | 8°30 | 7°42 | 7° 0 | 16°53 | S 12 |
| S 13 | 3 28 45 | 20°48'27 | 12°42 | 3°22 | 6°48 | 13°46 | 20°18 | 14°16 | 16°27 | 15°55 | 11°28 | 8°28 | 7°39 | 7° 7 | 16°59 | S 13 |
| M14 | 3 32 42 | 21°49'00 | 24°33 | 2°30 | 7°55 | 14°19 | 20°31 | 14°14 | 16°30 | 15°57 | 11°27 | 8°26 | 7°36 | 7°14 | 17° 4 | M14 |
| T 15 | 3 36 38 | 22°49'36 | 6♌27 | 1°29 | 9° 2 | 14°52 | 20°45 | 14°12 | 16°34 | 15°59 | 11°26 | 8°25 | 7°33 | 7°20 | 17°10 | T 15 |
| W16 | 3 40 35 | 23°50'13 | 18°30 | 0°20 | 10° 8 | 15°25 | 20°58 | 14°10 | 16°37 | 16° 1 | 11°25 | 8°D24 | 7°30 | 7°27 | 17°15 | W16 |
| T 17 | 3 44 32 | 24°50'52 | 0♍45 | 29♏ 4 | 11°14 | 15°58 | 21°11 | 14° 8 | 16°41 | 16° 3 | 11°24 | 8°24 | 7°26 | 7°34 | 17°20 | T 17 |
| F 18 | 3 48 28 | 25°51'32 | 13°16 | 27°44 | 12°20 | 16°31 | 21°25 | 14° 5 | 16°44 | 16° 5 | 11°23 | 8°25 | 7°23 | 7°40 | 17°25 | F 18 |
| S 19 | 3 52 25 | 26°52'15 | 26°10 | 26°22 | 13°26 | 17° 3 | 21°38 | 14° 3 | 16°47 | 16° 7 | 11°21 | 8°26 | 7°20 | 7°47 | 17°31 | S 19 |
| S 20 | 3 56 21 | 27°52'58 | 9♎27 | 25° 1 | 14°32 | 17°36 | 21°51 | 14° 0 | 16°51 | 16°10 | 11°20 | 8°28 | 7°17 | 7°54 | 17°35 | S 20 |
| M21 | 4 0 18 | 28°53'44 | 23°11 | 23°43 | 15°37 | 18° 8 | 22° 5 | 13°57 | 16°54 | 16°12 | 11°19 | 8°29 | 7°14 | 8° 0 | 17°40 | M21 |
| T 22 | 4 4 14 | 29°54'31 | 7♏21 | 22°32 | 16°42 | 18°40 | 22°18 | 13°55 | 16°58 | 16°14 | 11°18 | 8°R30 | 7°10 | 8° 7 | 17°45 | T 22 |
| W23 | 4 8 11 | 0♐55'19 | 21°55 | 21°29 | 17°47 | 19°12 | 22°31 | 13°52 | 17° 1 | 16°16 | 11°17 | 8°29 | 7° 7 | 8°14 | 17°50 | W23 |
| T 24 | 4 12 7 | 1°56'09 | 6♐46 | 20°36 | 18°52 | 19°44 | 22°44 | 13°49 | 17° 5 | 16°18 | 11°16 | 8°27 | 7° 4 | 8°21 | 17°54 | T 24 |
| F 25 | 4 16 4 | 2°57'00 | 21°47 | 19°54 | 19°56 | 20°16 | 22°58 | 13°46 | 17° 9 | 16°21 | 11°15 | 8°25 | 7° 1 | 8°27 | 17°59 | F 25 |
| S 26 | 4 20 1 | 3°57'52 | 6♑49 | 19°24 | 21° 0 | 20°48 | 23°11 | 13°43 | 17°12 | 16°23 | 11°14 | 8°21 | 6°58 | 8°34 | 18° 3 | S 26 |
| S 27 | 4 23 57 | 4°58'45 | 21°43 | 19° 5 | 22° 4 | 21°19 | 23°24 | 13°39 | 17°16 | 16°25 | 11°12 | 8°17 | 6°55 | 8°41 | 18° 8 | S 27 |
| M28 | 4 27 54 | 5°59'39 | 6♒21 | 18°D57 | 23° 8 | 21°51 | 23°37 | 13°36 | 17°19 | 16°27 | 11°11 | 8°14 | 6°51 | 8°47 | 18°12 | M28 |
| T 29 | 4 31 50 | 7° 0'34 | 20°39 | 19° 0 | 24°11 | 22°22 | 23°50 | 13°33 | 17°23 | 16°29 | 11°10 | 8°12 | 6°48 | 8°54 | 18°16 | T 29 |
| W30 | 4 35 47 | 8♐ 1'29 | 4♓34 | 19♏12 | 25♑14 | 22♍53 | 24♏ 4 | 13♋29 | 17♐27 | 16♐32 | 11♊ 9 | 8°D11 | 6♉45 | 9♋ 1 | 18♍20 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s26 | 22s48 | 5s17 | 23s20 | 2s49 | 25s58 | 2s39 | 10n26 | 1n36 | 16s20 | 0n50 | 22n 9 | 0s33 | 22s48 | 0s 4 | 21s20 | 1n22 | 12n12 | 10s 7 | 14n23 | 14n18 | 27n42 | 1n16 | 4s44 |
| W 2 | 14 46 | 18 19 | 5 6 | 23 28 | 2 48 | 26 3 | 2 41 | 10 14 | 1 37 | 16 24 | 0 50 | 22 9 | 0 33 | 22 48 | 0 4 | 21 20 | 1 22 | 12 11 | 10 8 | 14 23 | 14 17 | 27 42 | 1 13 | 4 44 |
| T 3 | 15 5 | 12 58 | 4 37 | 23 33 | 2 45 | 26 7 | 2 43 | 10 1 | 1 37 | 16 28 | 0 49 | 22 9 | 0 33 | 22 49 | 0 4 | 21 21 | 1 22 | 12 11 | 10 8 | 14 23 | 14 16 | 27 42 | 1 10 | 4 44 |
| F 4 | 15 23 | 7 6 | 3 54 | 23 37 | 2 42 | 26 11 | 2 44 | 9 49 | 1 38 | 16 31 | 0 49 | 22 10 | 0 32 | 22 49 | 0 4 | 21 21 | 1 22 | 12 11 | 10 8 | 14 23 | 14 15 | 27 42 | 1 8 | 4 44 |
| S 5 | 15 42 | 1 2 | 2 59 | 23 38 | 2 37 | 26 14 | 2 46 | 9 37 | 1 38 | 16 35 | 0 49 | 22 10 | 0 32 | 22 49 | 0 4 | 21 21 | 1 22 | 12 11 | 10 8 | 14 23 | 14 14 | 27 43 | 1 5 | 4 45 |
| S 6 | 16 0 | 5n 0 | 1 56 | 23 37 | 2 32 | 26 16 | 2 47 | 9 25 | 1 39 | 16 39 | 0 49 | 22 10 | 0 32 | 22 50 | 0 4 | 21 21 | 1 22 | 12 11 | 10 8 | 14 23 | 14 13 | 27 43 | 1 2 | 4 45 |
| M 7 | 16 18 | 10 44 | 0 48 | 23 33 | 2 25 | 26 18 | 2 49 | 9 12 | 1 40 | 16 42 | 0 49 | 22 10 | 0 32 | 22 50 | 0 4 | 21 21 | 1 22 | 12 10 | 10 8 | 14 23 | 14 12 | 27 43 | 1 0 | 4 45 |
| T 8 | 16 36 | 15 57 | 0n21 | 23 26 | 2 16 | 26 19 | 2 50 | 9 0 | 1 40 | 16 46 | 0 49 | 22 10 | 0 32 | 22 50 | 0 4 | 21 22 | 1 22 | 12 10 | 10 8 | 14 23 | 14 11 | 27 43 | 0 57 | 4 45 |
| W 9 | 16 53 | 20 26 | 1 29 | 23 16 | 2 7 | 26 19 | 2 51 | 8 48 | 1 41 | 16 50 | 0 49 | 22 11 | 0 32 | 22 51 | 0 4 | 21 22 | 1 22 | 12 10 | 10 8 | 14 23 | 14 10 | 27 43 | 0 55 | 4 46 |
| T 10 | 17 10 | 23 59 | 2 31 | 23 3 | 1 55 | 26 18 | 2 52 | 8 36 | 1 41 | 16 54 | 0 49 | 22 11 | 0 32 | 22 51 | 0 4 | 21 22 | 1 22 | 12 10 | 10 8 | 14 23 | 14 9 | 27 43 | 0 52 | 4 46 |
| F 11 | 17 27 | 26 26 | 3 25 | 22 46 | 1 42 | 26 17 | 2 53 | 8 24 | 1 42 | 16 57 | 0 49 | 22 11 | 0 32 | 22 51 | 0 4 | 21 22 | 1 22 | 12 10 | 10 8 | 14 22 | 14 7 | 27 43 | 0 50 | 4 46 |
| S 12 | 17 43 | 27 40 | 4 11 | 22 26 | 1 28 | 26 15 | 2 53 | 8 11 | 1 43 | 17 1 | 0 49 | 22 11 | 0 32 | 22 52 | 0 4 | 21 23 | 1 22 | 12 9 | 10 8 | 14 22 | 14 6 | 27 43 | 0 47 | 4 46 |
| S 13 | 17 59 | 27 36 | 4 45 | 22 2 | 1 12 | 26 12 | 2 54 | 7 59 | 1 43 | 17 4 | 0 49 | 22 11 | 0 32 | 22 52 | 0 4 | 21 23 | 1 22 | 12 9 | 10 8 | 14 21 | 14 5 | 27 43 | 0 45 | 4 47 |
| M14 | 18 15 | 26 17 | 5 7 | 21 35 | 0 54 | 26 9 | 2 54 | 7 47 | 1 44 | 17 8 | 0 49 | 22 12 | 0 32 | 22 52 | 0 4 | 21 23 | 1 22 | 12 9 | 10 8 | 14 21 | 14 4 | 27 43 | 0 43 | 4 47 |
| T 15 | 18 31 | 23 47 | 5 16 | 21 4 | 0 35 | 26 5 | 2 55 | 7 35 | 1 45 | 17 12 | 0 49 | 22 12 | 0 32 | 22 53 | 0 4 | 21 23 | 1 22 | 12 9 | 10 8 | 14 20 | 14 3 | 27 44 | 0 40 | 4 47 |
| W16 | 18 46 | 20 14 | 5 11 | 20 31 | 0 15 | 26 0 | 2 55 | 7 22 | 1 45 | 17 15 | 0 49 | 22 12 | 0 32 | 22 53 | 0 4 | 21 24 | 1 22 | 12 9 | 10 8 | 14 20 | 14 2 | 27 44 | 0 38 | 4 47 |
| T 17 | 19 1 | 15 47 | 4 52 | 19 54 | 0n 5 | 25 55 | 2 55 | 7 10 | 1 46 | 17 19 | 0 49 | 22 13 | 0 32 | 22 53 | 0 4 | 21 24 | 1 22 | 12 9 | 10 8 | 14 20 | 14 1 | 27 44 | 0 36 | 4 48 |
| F 18 | 19 16 | 10 35 | 4 19 | 19 17 | 0 26 | 25 49 | 2 55 | 6 58 | 1 47 | 17 22 | 0 48 | 22 13 | 0 32 | 22 54 | 0 4 | 21 24 | 1 22 | 12 8 | 10 8 | 14 20 | 14 0 | 27 44 | 0 34 | 4 48 |
| S 19 | 19 30 | 4 47 | 3 33 | 18 38 | 0 46 | 25 42 | 2 55 | 6 46 | 1 47 | 17 26 | 0 48 | 22 13 | 0 32 | 22 54 | 0 4 | 21 24 | 1 22 | 12 8 | 10 8 | 14 21 | 13 59 | 27 44 | 0 31 | 4 48 |
| S 20 | 19 44 | 1s24 | 2 33 | 18 0 | 1 5 | 25 35 | 2 54 | 6 34 | 1 48 | 17 29 | 0 48 | 22 13 | 0 32 | 22 54 | 0 4 | 21 25 | 1 22 | 12 8 | 10 8 | 14 21 | 13 58 | 27 44 | 0 29 | 4 48 |
| M21 | 19 57 | 7 44 | 1 23 | 17 23 | 1 24 | 25 27 | 2 54 | 6 22 | 1 48 | 17 33 | 0 48 | 22 14 | 0 32 | 22 55 | 0 4 | 21 25 | 1 22 | 12 8 | 10 8 | 14 22 | 13 57 | 27 44 | 0 27 | 4 49 |
| T 22 | 20 10 | 13 54 | 0 6 | 16 50 | 1 40 | 25 18 | 2 53 | 6 10 | 1 49 | 17 36 | 0 48 | 22 14 | 0 32 | 22 55 | 0 4 | 21 25 | 1 22 | 12 8 | 10 8 | 14 22 | 13 56 | 27 44 | 0 25 | 4 49 |
| W23 | 20 23 | 19 28 | 1s13 | 16 19 | 1 55 | 25 9 | 2 52 | 5 58 | 1 50 | 17 40 | 0 48 | 22 15 | 0 31 | 22 55 | 0 4 | 21 25 | 1 22 | 12 8 | 10 8 | 14 22 | 13 55 | 27 44 | 0 23 | 4 49 |
| T 24 | 20 35 | 23 56 | 2 29 | 15 53 | 2 7 | 24 59 | 2 51 | 5 46 | 1 50 | 17 43 | 0 48 | 22 15 | 0 31 | 22 56 | 0 4 | 21 26 | 1 22 | 12 8 | 10 8 | 14 21 | 13 54 | 27 44 | 0 21 | 4 50 |
| F 25 | 20 47 | 26 49 | 3 36 | 15 32 | 2 18 | 24 49 | 2 50 | 5 34 | 1 51 | 17 46 | 0 48 | 22 15 | 0 31 | 22 56 | 0 4 | 21 26 | 1 22 | 12 7 | 10 8 | 14 20 | 13 53 | 27 44 | 0 19 | 4 50 |
| S 26 | 20 59 | 27 46 | 4 27 | 15 16 | 2 26 | 24 38 | 2 49 | 5 22 | 1 52 | 17 50 | 0 48 | 22 16 | 0 31 | 22 57 | 0 4 | 21 26 | 1 22 | 12 7 | 10 8 | 14 19 | 13 52 | 27 44 | 0 17 | 4 50 |
| S 27 | 21 10 | 26 40 | 5 0 | 15 5 | 2 32 | 24 26 | 2 48 | 5 10 | 1 52 | 17 53 | 0 48 | 22 16 | 0 31 | 22 57 | 0 4 | 21 26 | 1 22 | 12 7 | 10 8 | 14 18 | 13 51 | 27 44 | 0 15 | 4 51 |
| M28 | 21 21 | 23 46 | 5 13 | 14 59 | 2 37 | 24 14 | 2 46 | 4 58 | 1 53 | 17 56 | 0 48 | 22 16 | 0 31 | 22 57 | 0 4 | 21 27 | 1 22 | 12 7 | 10 8 | 14 17 | 13 50 | 27 44 | 0 13 | 4 51 |
| T 29 | 21 31 | 19 28 | 5 6 | 14 57 | 2 39 | 24 1 | 2 45 | 4 46 | 1 54 | 18 0 | 0 48 | 22 17 | 0 31 | 22 58 | 0 4 | 21 27 | 1 22 | 12 7 | 10 8 | 14 16 | 13 49 | 27 44 | 0 11 | 4 51 |
| W30 | 21s41 | 14s12 | 4s41 | 15s 0 | 2n40 | 23s48 | 2s43 | 4n35 | 1n54 | 18s 3 | 0n48 | 22n17 | 0s31 | 22s58 | 0s 4 | 21s27 | 1n22 | 12n 7 | 10s 8 | 14n16 | 13n48 | 27n44 | 0n 9 | 4s52 |

Julian Day Number = 2324014.5, Delta T = 42.73 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'00, Lahiri = 18°59'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1650
# geocentric

## DECEMBER 1650 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 39 43 | 9♐ 2'25 | 18♓ 7 | 19♏34 | 26♑16 | 23♍24 | 24♏17 | 13°R26 | 17♐30 | 16♐34 | 11°R 8 | 8♉11 | 6♉42 | 9♋ 8 | 18♍24 | T 1 |
| F 2 | 4 43 40 | 10° 3'22 | 1♈18 | 20° 5 | 27°19 | 23°55 | 24°30 | 13♋22 | 17°34 | 16°36 | 11♊ 7 | 8°12 | 6°39 | 9°14 | 18°27 | F 2 |
| S 3 | 4 47 37 | 11° 4'20 | 14°10 | 20°42 | 28°20 | 24°26 | 24°43 | 13°18 | 17°37 | 16°38 | 11° 5 | 8°14 | 6°36 | 9°21 | 18°31 | S 3 |
| S 4 | 4 51 33 | 12° 5'18 | 26°47 | 21°27 | 29°22 | 24°57 | 24°56 | 13°14 | 17°41 | 16°41 | 11° 4 | 8°15 | 6°32 | 9°28 | 18°35 | S 4 |
| M 5 | 4 55 30 | 13° 6'17 | 9♉12 | 22°17 | 0♒23 | 25°27 | 25° 9 | 13°10 | 17°45 | 16°43 | 11° 3 | 8°R16 | 6°29 | 9°34 | 18°38 | M 5 |
| T 6 | 4 59 26 | 14° 7'17 | 21°26 | 23°12 | 1°24 | 25°58 | 25°22 | 13° 6 | 17°48 | 16°45 | 11° 2 | 8°15 | 6°26 | 9°41 | 18°42 | T 6 |
| W 7 | 5 3 23 | 15° 8'17 | 3♊32 | 24°12 | 2°24 | 26°28 | 25°35 | 13° 2 | 17°52 | 16°47 | 11° 1 | 8°12 | 6°23 | 9°48 | 18°45 | W 7 |
| T 8 | 5 7 19 | 16° 9'18 | 15°32 | 25°16 | 3°24 | 26°58 | 25°48 | 12°58 | 17°56 | 16°50 | 11° 0 | 8° 7 | 6°20 | 9°55 | 18°48 | T 8 |
| F 9 | 5 11 16 | 17°10'20 | 27°27 | 26°23 | 4°24 | 27°28 | 26° 1 | 12°54 | 17°59 | 16°52 | 10°59 | 8° 1 | 6°16 | 10° 1 | 18°51 | F 9 |
| S 10 | 5 15 12 | 18°11'23 | 9♋20 | 27°33 | 5°23 | 27°57 | 26°14 | 12°50 | 18° 3 | 16°54 | 10°57 | 7°53 | 6°13 | 10° 8 | 18°54 | S 10 |
| S 11 | 5 19 9 | 19°12'27 | 21°11 | 28°46 | 6°21 | 28°27 | 26°27 | 12°46 | 18° 7 | 16°57 | 10°56 | 7°45 | 6°10 | 10°15 | 18°57 | S 11 |
| M12 | 5 23 6 | 20°13'31 | 3♌ 3 | 0♐ 1 | 7°19 | 28°56 | 26°39 | 12°41 | 18°10 | 16°59 | 10°55 | 7°37 | 6° 7 | 10°21 | 18°59 | M12 |
| T 13 | 5 27 2 | 21°14'36 | 14°59 | 1°18 | 8°17 | 29°26 | 26°52 | 12°37 | 18°14 | 17° 1 | 10°54 | 7°30 | 6° 4 | 10°28 | 19° 2 | T 13 |
| W14 | 5 30 59 | 22°15'42 | 27° 0 | 2°37 | 9°14 | 29°55 | 27° 5 | 12°32 | 18°18 | 17° 3 | 10°53 | 7°24 | 6° 1 | 10°35 | 19° 4 | W14 |
| T 15 | 5 34 55 | 23°16'48 | 9♍12 | 3°57 | 10°10 | 0♎24 | 27°18 | 12°28 | 18°21 | 17° 6 | 10°52 | 7°21 | 5°57 | 10°41 | 19° 7 | T 15 |
| F 16 | 5 38 52 | 24°17'56 | 21°39 | 5°19 | 11° 6 | 0°52 | 27°30 | 12°23 | 18°25 | 17° 8 | 10°51 | 7°D20 | 5°54 | 10°48 | 19° 9 | F 16 |
| S 17 | 5 42 48 | 25°19'04 | 4♎24 | 6°41 | 12° 1 | 1°21 | 27°43 | 12°19 | 18°28 | 17°10 | 10°49 | 7°20 | 5°51 | 10°55 | 19°11 | S 17 |
| S 18 | 5 46 45 | 26°20'13 | 17°33 | 8° 5 | 12°56 | 1°49 | 27°55 | 12°14 | 18°32 | 17°12 | 10°48 | 7°21 | 5°48 | 11° 2 | 19°13 | S 18 |
| M19 | 5 50 41 | 27°21'22 | 1♏ 9 | 9°30 | 13°50 | 2°18 | 28° 8 | 12° 9 | 18°36 | 17°15 | 10°47 | 7°R22 | 5°45 | 11° 8 | 19°15 | M19 |
| T 20 | 5 54 38 | 28°22'32 | 15°13 | 10°56 | 14°43 | 2°46 | 28°20 | 12° 5 | 18°39 | 17°17 | 10°46 | 7°22 | 5°42 | 11°15 | 19°17 | T 20 |
| W21 | 5 58 35 | 29°23'43 | 29°45 | 12°22 | 15°36 | 3°13 | 28°33 | 12° 0 | 18°43 | 17°19 | 10°45 | 7°20 | 5°38 | 11°22 | 19°18 | W21 |
| T 22 | 6 2 31 | 0♑24'54 | 14♐41 | 13°49 | 16°28 | 3°41 | 28°45 | 11°55 | 18°46 | 17°21 | 10°44 | 7°16 | 5°35 | 11°28 | 19°20 | T 22 |
| F 23 | 6 6 28 | 1°26'06 | 29°55 | 15°17 | 17°19 | 4° 8 | 28°57 | 11°50 | 18°50 | 17°24 | 10°43 | 7° 9 | 5°32 | 11°35 | 19°21 | F 23 |
| S 24 | 6 10 24 | 2°27'18 | 15♑14 | 16°45 | 18° 9 | 4°35 | 29°10 | 11°45 | 18°54 | 17°26 | 10°42 | 7° 0 | 5°29 | 11°42 | 19°22 | S 24 |
| S 25 | 6 14 21 | 3°28'30 | 0♒29 | 18°13 | 18°59 | 5° 2 | 29°22 | 11°41 | 18°57 | 17°28 | 10°41 | 6°51 | 5°26 | 11°49 | 19°24 | S 25 |
| M26 | 6 18 17 | 4°29'42 | 15°28 | 19°43 | 19°48 | 5°29 | 29°34 | 11°36 | 19° 1 | 17°30 | 10°40 | 6°43 | 5°22 | 11°55 | 19°25 | M26 |
| T 27 | 6 22 14 | 5°30'53 | 0♓ 3 | 21°12 | 20°36 | 5°56 | 29°46 | 11°31 | 19° 4 | 17°32 | 10°39 | 6°36 | 5°19 | 12° 2 | 19°25 | T 27 |
| W28 | 6 26 11 | 6°32'05 | 14°10 | 22°42 | 21°23 | 6°22 | 29°58 | 11°26 | 19° 8 | 17°35 | 10°38 | 6°31 | 5°16 | 12° 9 | 19°26 | W28 |
| T 29 | 6 30 7 | 7°33'16 | 27°49 | 24°13 | 22° 9 | 6°48 | 0♐10 | 11°21 | 19°11 | 17°37 | 10°37 | 6°29 | 5°13 | 12°15 | 19°27 | T 29 |
| F 30 | 6 34 4 | 8°34'27 | 11♈ 0 | 25°44 | 22°54 | 7°14 | 0°22 | 11°16 | 19°15 | 17°39 | 10°36 | 6°D28 | 5°10 | 12°22 | 19°27 | F 30 |
| S 31 | 6 38 0 | 9♑35'37 | 23♈48 | 27♐15 | 23♒38 | 7♎39 | 0♐34 | 11♋11 | 19♐18 | 17♐41 | 10♊35 | 6♉29 | 5♉ 7 | 12♋29 | 19♍28 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s51 | 8s24 | 4s 1 | 15s 6 | 2n40 | 23s34 | 2s41 | 4n23 | 1n55 | 18s 6 | 0n48 | 22n18 | 0s31 | 22s58 | 0s 4 | 21s27 | 1n22 | 12n 7 | 10s 8 | 14n16 | 13n47 | 27n43 | 0n 7 | 4s52 |
| F 2 | 22 0 | 2 22 | 3 8 | 15 16 | 2 38 | 23 20 | 2 38 | 4 11 | 1 56 | 18 9 | 0 48 | 22 18 | 0 31 | 22 59 | 0 4 | 21 28 | 1 22 | 12 7 | 10 8 | 14 16 | 13 46 | 27 43 | 0 6 | 4 52 |
| S 3 | 22 9 | 3n38 | 2 8 | 15 28 | 2 35 | 23 5 | 2 36 | 4 0 | 1 56 | 18 13 | 0 48 | 22 19 | 0 31 | 22 59 | 0 4 | 21 28 | 1 22 | 12 6 | 10 8 | 14 17 | 13 45 | 27 43 | 0 4 | 4 52 |
| S 4 | 22 17 | 9 23 | 1 2 | 15 43 | 2 31 | 22 50 | 2 34 | 3 48 | 1 57 | 18 16 | 0 48 | 22 19 | 0 31 | 22 59 | 0 4 | 21 28 | 1 22 | 12 6 | 10 8 | 14 17 | 13 44 | 27 43 | 0 2 | 4 53 |
| M 5 | 22 25 | 14 40 | 0n 5 | 16 0 | 2 27 | 22 34 | 2 31 | 3 37 | 1 58 | 18 19 | 0 48 | 22 20 | 0 31 | 23 0 | 0 4 | 21 28 | 1 22 | 12 6 | 10 8 | 14 17 | 13 43 | 27 43 | 0 0 | 4 53 |
| T 6 | 22 32 | 19 18 | 1 11 | 16 19 | 2 22 | 22 17 | 2 28 | 3 25 | 1 58 | 18 22 | 0 48 | 22 20 | 0 31 | 23 0 | 0 4 | 21 28 | 1 21 | 12 6 | 10 8 | 14 17 | 13 41 | 27 43 | 0s 1 | 4 53 |
| W 7 | 22 39 | 23 5 | 2 13 | 16 39 | 2 16 | 22 1 | 2 25 | 3 14 | 1 59 | 18 25 | 0 48 | 22 20 | 0 30 | 23 0 | 0 4 | 21 29 | 1 21 | 12 6 | 10 8 | 14 16 | 13 40 | 27 43 | 0 3 | 4 54 |
| T 8 | 22 46 | 25 49 | 3 9 | 17 1 | 2 10 | 21 44 | 2 21 | 3 2 | 2 0 | 18 28 | 0 48 | 22 21 | 0 30 | 23 1 | 0 4 | 21 29 | 1 21 | 12 6 | 10 8 | 14 15 | 13 39 | 27 43 | 0 4 | 4 54 |
| F 9 | 22 52 | 27 23 | 3 55 | 17 23 | 2 3 | 21 26 | 2 18 | 2 51 | 2 0 | 18 31 | 0 48 | 22 21 | 0 30 | 23 1 | 0 4 | 21 29 | 1 21 | 12 6 | 10 8 | 14 12 | 13 38 | 27 43 | 0 6 | 4 54 |
| S 10 | 22 58 | 27 40 | 4 31 | 17 46 | 1 57 | 21 8 | 2 14 | 2 40 | 2 1 | 18 34 | 0 48 | 22 22 | 0 30 | 23 1 | 0 5 | 21 29 | 1 21 | 12 6 | 10 8 | 14 10 | 13 37 | 27 43 | 0 7 | 4 55 |
| S 11 | 23 3 | 26 41 | 4 56 | 18 9 | 1 49 | 20 50 | 2 10 | 2 29 | 2 2 | 18 37 | 0 48 | 22 22 | 0 30 | 23 2 | 0 5 | 21 30 | 1 21 | 12 6 | 10 8 | 14 7 | 13 36 | 27 42 | 0 9 | 4 55 |
| M12 | 23 8 | 24 30 | 5 7 | 18 32 | 1 42 | 20 31 | 2 6 | 2 18 | 2 3 | 18 40 | 0 48 | 22 23 | 0 30 | 23 2 | 0 5 | 21 30 | 1 21 | 12 6 | 10 8 | 14 5 | 13 35 | 27 42 | 0 10 | 4 56 |
| T 13 | 23 12 | 21 14 | 5 6 | 18 55 | 1 35 | 20 12 | 2 2 | 2 7 | 2 3 | 18 43 | 0 48 | 22 23 | 0 30 | 23 2 | 0 5 | 21 30 | 1 21 | 12 6 | 10 8 | 14 2 | 13 34 | 27 42 | 0 11 | 4 56 |
| W14 | 23 16 | 17 5 | 4 51 | 19 18 | 1 27 | 19 52 | 1 58 | 1 56 | 2 4 | 18 46 | 0 48 | 22 24 | 0 30 | 23 3 | 0 5 | 21 30 | 1 21 | 12 5 | 10 7 | 14 1 | 13 33 | 27 42 | 0 13 | 4 56 |
| T 15 | 23 19 | 12 11 | 4 22 | 19 41 | 1 19 | 19 33 | 1 53 | 1 45 | 2 5 | 18 49 | 0 48 | 22 24 | 0 30 | 23 3 | 0 5 | 21 30 | 1 21 | 12 5 | 10 7 | 14 0 | 13 32 | 27 42 | 0 14 | 4 57 |
| F 16 | 23 22 | 6 42 | 3 41 | 20 4 | 1 11 | 19 13 | 1 48 | 1 34 | 2 5 | 18 52 | 0 48 | 22 25 | 0 30 | 23 3 | 0 5 | 21 31 | 1 21 | 12 5 | 10 7 | 13 59 | 13 31 | 27 42 | 0 15 | 4 57 |
| S 17 | 23 24 | 0 49 | 2 48 | 20 26 | 1 4 | 18 52 | 1 43 | 1 23 | 2 6 | 18 55 | 0 48 | 22 25 | 0 30 | 23 4 | 0 5 | 21 31 | 1 21 | 12 5 | 10 7 | 13 59 | 13 30 | 27 41 | 0 16 | 4 57 |
| S 18 | 23 26 | 5s17 | 1 45 | 20 47 | 0 56 | 18 32 | 1 38 | 1 13 | 2 7 | 18 58 | 0 48 | 22 26 | 0 30 | 23 4 | 0 5 | 21 31 | 1 21 | 12 5 | 10 7 | 14 0 | 13 29 | 27 41 | 0 17 | 4 58 |
| M19 | 23 28 | 11 22 | 0 34 | 21 8 | 0 48 | 18 11 | 1 32 | 1 2 | 2 8 | 19 1 | 0 48 | 22 26 | 0 29 | 23 4 | 0 5 | 21 31 | 1 21 | 12 5 | 10 7 | 14 0 | 13 28 | 27 41 | 0 18 | 4 58 |
| T 20 | 23 29 | 17 6 | 0s42 | 21 28 | 0 40 | 17 50 | 1 26 | 0 52 | 2 8 | 19 3 | 0 48 | 22 27 | 0 29 | 23 5 | 0 5 | 21 32 | 1 21 | 12 5 | 10 7 | 14 0 | 13 27 | 27 41 | 0 19 | 4 58 |
| W21 | 23 29 | 22 3 | 1 57 | 21 47 | 0 32 | 17 28 | 1 21 | 0 41 | 2 9 | 19 6 | 0 48 | 22 27 | 0 29 | 23 5 | 0 5 | 21 32 | 1 21 | 12 5 | 10 7 | 13 59 | 13 26 | 27 40 | 0 20 | 4 59 |
| T 22 | 23 29 | 25 41 | 3 6 | 22 6 | 0 25 | 17 7 | 1 14 | 0 31 | 2 10 | 19 9 | 0 48 | 22 28 | 0 29 | 23 5 | 0 5 | 21 32 | 1 21 | 12 5 | 10 7 | 13 58 | 13 25 | 27 40 | 0 21 | 4 59 |
| F 23 | 23 29 | 27 33 | 4 3 | 22 23 | 0 17 | 16 45 | 1 8 | 0 21 | 2 11 | 19 12 | 0 48 | 22 29 | 0 29 | 23 6 | 0 5 | 21 32 | 1 21 | 12 5 | 10 7 | 13 56 | 13 24 | 27 40 | 0 22 | 4 59 |
| S 24 | 23 28 | 27 18 | 4 43 | 22 40 | 0 10 | 16 23 | 1 1 | 0 11 | 2 11 | 19 14 | 0 48 | 22 29 | 0 29 | 23 6 | 0 5 | 21 32 | 1 21 | 12 5 | 10 6 | 13 53 | 13 22 | 27 40 | 0 23 | 5 0 |
| S 25 | 23 26 | 25 1 | 5 3 | 22 56 | 0 2 | 16 1 | 0 54 | 0 1 | 2 12 | 19 17 | 0 48 | 22 30 | 0 29 | 23 6 | 0 5 | 21 33 | 1 21 | 12 5 | 10 6 | 13 50 | 13 21 | 27 39 | 0 24 | 5 0 |
| M26 | 23 25 | 21 1 | 5 1 | 23 10 | 0s 5 | 15 39 | 0 47 | 0s 9 | 2 13 | 19 19 | 0 48 | 22 30 | 0 29 | 23 6 | 0 5 | 21 33 | 1 21 | 12 5 | 10 6 | 13 47 | 13 20 | 27 39 | 0 24 | 5 0 |
| T 27 | 23 22 | 15 50 | 4 40 | 23 24 | 0 12 | 15 17 | 0 40 | 0 19 | 2 14 | 19 22 | 0 48 | 22 31 | 0 29 | 23 7 | 0 5 | 21 33 | 1 21 | 12 5 | 10 6 | 13 45 | 13 19 | 27 39 | 0 25 | 5 1 |
| W28 | 23 20 | 9 57 | 4 2 | 23 36 | 0 19 | 14 55 | 0 32 | 0 29 | 2 14 | 19 25 | 0 48 | 22 31 | 0 29 | 23 7 | 0 5 | 21 33 | 1 21 | 12 5 | 10 6 | 13 43 | 13 18 | 27 39 | 0 26 | 5 1 |
| T 29 | 23 16 | 3 48 | 3 11 | 23 48 | 0 26 | 14 32 | 0 24 | 0 38 | 2 15 | 19 27 | 0 48 | 22 32 | 0 28 | 23 7 | 0 5 | 21 33 | 1 21 | 12 5 | 10 6 | 13 42 | 13 17 | 27 38 | 0 26 | 5 1 |
| F 30 | 23 13 | 2n21 | 2 12 | 23 58 | 0 33 | 14 10 | 0 16 | 0 48 | 2 16 | 19 30 | 0 48 | 22 32 | 0 28 | 23 8 | 0 5 | 21 34 | 1 22 | 12 5 | 10 6 | 13 42 | 13 16 | 27 38 | 0 27 | 5 2 |
| S 31 | 23s 8 | 8n13 | 1s 7 | 24s 7 | 0s40 | 13s48 | 0s 8 | 0s57 | 2n17 | 19s32 | 0n48 | 22n33 | 0s28 | 23s 8 | 0s 5 | 21s34 | 1n22 | 12n 5 | 10s 5 | 13n42 | 13n15 | 27n38 | 0s27 | 5s 2 |

Julian Day Number = 2324044.5, Delta T = 42.67 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'04, Lahiri = 18°59'05Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## JANUARY 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 41 57 | 10♑36'47 | 6♉16 | 28♐47 | 24♒21 | 8♎ 4 | 0♐45 | 11°R 6 | 19♐22 | 17♐43 | 10°R34 | 6°R29 | 5♉ 3 | 12♋36 | 19♍28 | S 1 |
| M 2 | 6 45 53 | 11°37'56 | 18°30 | 0♑19 | 25° 2 | 8°29 | 0°57 | 11♋ 1 | 19°25 | 17°45 | 10♊33 | 6♉29 | 5° 0 | 12°42 | 19°28 | M 2 |
| T 3 | 6 49 50 | 12°39'06 | 0♊34 | 1°51 | 25°43 | 8°54 | 1° 9 | 10°56 | 19°29 | 17°47 | 10°32 | 6°26 | 4°57 | 12°49 | 19°R28 | T 3 |
| W 4 | 6 53 46 | 13°40'15 | 12°31 | 3°24 | 26°22 | 9°19 | 1°20 | 10°51 | 19°32 | 17°49 | 10°31 | 6°20 | 4°54 | 12°56 | 19°28 | W 4 |
| T 5 | 6 57 43 | 14°41'23 | 24°24 | 4°58 | 27° 0 | 9°43 | 1°32 | 10°46 | 19°36 | 17°52 | 10°30 | 6°11 | 4°51 | 13° 2 | 19°28 | T 5 |
| F 6 | 7 1 40 | 15°42'31 | 6♋16 | 6°32 | 27°37 | 10° 7 | 1°43 | 10°41 | 19°39 | 17°54 | 10°29 | 6° 0 | 4°48 | 13° 9 | 19°28 | F 6 |
| S 7 | 7 5 36 | 16°43'39 | 18° 7 | 8° 6 | 28°12 | 10°31 | 1°54 | 10°36 | 19°42 | 17°56 | 10°28 | 5°47 | 4°44 | 13°16 | 19°27 | S 7 |
| S 8 | 7 9 33 | 17°44'46 | 0♌ 1 | 9°40 | 28°46 | 10°54 | 2° 5 | 10°31 | 19°46 | 17°58 | 10°27 | 5°33 | 4°41 | 13°23 | 19°27 | S 8 |
| M 9 | 7 13 29 | 18°45'53 | 11°57 | 11°16 | 29°18 | 11°17 | 2°17 | 10°26 | 19°49 | 18° 0 | 10°26 | 5°19 | 4°38 | 13°29 | 19°26 | M 9 |
| T 10 | 7 17 26 | 19°47'00 | 23°58 | 12°51 | 29°49 | 11°40 | 2°28 | 10°22 | 19°52 | 18° 2 | 10°25 | 5° 6 | 4°35 | 13°36 | 19°26 | T 10 |
| W11 | 7 21 22 | 20°48'06 | 6♍ 5 | 14°27 | 0♓18 | 12° 3 | 2°39 | 10°17 | 19°55 | 18° 4 | 10°24 | 4°56 | 4°32 | 13°43 | 19°25 | W11 |
| T 12 | 7 25 19 | 21°49'12 | 18°20 | 16° 4 | 0°46 | 12°25 | 2°50 | 10°12 | 19°59 | 18° 6 | 10°24 | 4°49 | 4°28 | 13°49 | 19°24 | T 12 |
| F 13 | 7 29 15 | 22°50'18 | 0♎47 | 17°41 | 1°12 | 12°47 | 3° 0 | 10° 7 | 20° 2 | 18° 8 | 10°23 | 4°45 | 4°25 | 13°56 | 19°23 | F 13 |
| S 14 | 7 33 12 | 23°51'23 | 13°29 | 19°19 | 1°36 | 13° 8 | 3°11 | 10° 2 | 20° 5 | 18°10 | 10°22 | 4°43 | 4°22 | 14° 3 | 19°21 | S 14 |
| S 15 | 7 37 9 | 24°52'28 | 26°31 | 20°57 | 1°58 | 13°29 | 3°22 | 9°58 | 20° 8 | 18°11 | 10°21 | 4°42 | 4°19 | 14°10 | 19°20 | S 15 |
| M16 | 7 41 5 | 25°53'32 | 9♏56 | 22°36 | 2°18 | 13°50 | 3°32 | 9°53 | 20°11 | 18°13 | 10°20 | 4°42 | 4°16 | 14°16 | 19°19 | M16 |
| T 17 | 7 45 2 | 26°54'36 | 23°47 | 24°16 | 2°36 | 14°11 | 3°43 | 9°48 | 20°15 | 18°15 | 10°20 | 4°41 | 4°13 | 14°23 | 19°17 | T 17 |
| W18 | 7 48 58 | 27°55'40 | 8♐ 6 | 25°56 | 2°53 | 14°31 | 3°53 | 9°44 | 20°18 | 18°17 | 10°19 | 4°38 | 4° 9 | 14°30 | 19°15 | W18 |
| T 19 | 7 52 55 | 28°56'43 | 22°50 | 27°36 | 3° 7 | 14°51 | 4° 3 | 9°39 | 20°21 | 18°19 | 10°18 | 4°32 | 4° 6 | 14°36 | 19°13 | T 19 |
| F 20 | 7 56 51 | 29°57'46 | 7♑55 | 29°17 | 3°19 | 15°10 | 4°13 | 9°35 | 20°24 | 18°21 | 10°18 | 4°24 | 4° 3 | 14°43 | 19°12 | F 20 |
| S 21 | 8 0 48 | 0♒58'48 | 23°12 | 0♒59 | 3°28 | 15°29 | 4°23 | 9°30 | 20°27 | 18°23 | 10°17 | 4°13 | 4° 0 | 14°50 | 19°10 | S 21 |
| S 22 | 8 4 44 | 1°59'49 | 8♒30 | 2°42 | 3°36 | 15°48 | 4°33 | 9°26 | 20°30 | 18°24 | 10°16 | 4° 1 | 3°57 | 14°57 | 19° 7 | S 22 |
| M23 | 8 8 41 | 3° 0'49 | 23°37 | 4°25 | 3°41 | 16° 6 | 4°43 | 9°21 | 20°33 | 18°26 | 10°16 | 3°49 | 3°54 | 15° 3 | 19° 5 | M23 |
| T 24 | 8 12 38 | 4° 1'48 | 8♓24 | 6° 9 | 3°44 | 16°24 | 4°53 | 9°17 | 20°36 | 18°28 | 10°15 | 3°39 | 3°50 | 15°10 | 19° 3 | T 24 |
| W25 | 8 16 34 | 5° 2'46 | 22°43 | 7°53 | 3°R44 | 16°41 | 5° 3 | 9°13 | 20°38 | 18°30 | 10°14 | 3°32 | 3°47 | 15°17 | 19° 0 | W25 |
| T 26 | 8 20 31 | 6° 3'42 | 6♈32 | 9°38 | 3°42 | 16°58 | 5°12 | 9° 9 | 20°41 | 18°31 | 10°14 | 3°28 | 3°44 | 15°23 | 18°58 | T 26 |
| F 27 | 8 24 27 | 7° 4'37 | 19°51 | 11°24 | 3°37 | 17°15 | 5°22 | 9° 5 | 20°44 | 18°33 | 10°13 | 3°26 | 3°41 | 15°30 | 18°55 | F 27 |
| S 28 | 8 28 24 | 8° 5'31 | 2♉44 | 13°10 | 3°29 | 17°31 | 5°31 | 9° 1 | 20°47 | 18°35 | 10°13 | 3°26 | 3°38 | 15°37 | 18°52 | S 28 |
| S 29 | 8 32 20 | 9° 6'23 | 15°14 | 14°56 | 3°20 | 17°46 | 5°40 | 8°57 | 20°50 | 18°36 | 10°12 | 3°26 | 3°34 | 15°44 | 18°50 | S 29 |
| M30 | 8 36 17 | 10° 7'14 | 27°26 | 16°43 | 3° 7 | 18° 1 | 5°49 | 8°53 | 20°52 | 18°38 | 10°11 | 3°25 | 3°31 | 15°50 | 18°47 | M30 |
| T 31 | 8 40 13 | 11♒ 8'04 | 9♊27 | 18♒31 | 2♓52 | 18♎16 | 5♐58 | 8♋49 | 20♐55 | 18♐39 | 10♊11 | 3♉22 | 3♉28 | 15♋57 | 18♍44 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 4 | 13n37 | 0s 1 | 24s15 | 0s46 | 13s25 | 0n 1 | 1s 6 | 2n17 | 19s34 | 0n48 | 22n33 | 0s28 | 23s 8 | 0s 5 | 21s34 | 1n22 | 12n 5 | 10s 5 | 13n43 | 13n14 | 27n37 | 0s27 | 5s 2 |
| M 2 | 22 59 | 18 23 | 1n 4 | 24 21 | 0 52 | 13 3 | 0 10 | 1 15 | 2 18 | 19 37 | 0 48 | 22 34 | 0 28 | 23 9 | 0 5 | 21 34 | 1 22 | 12 5 | 10 5 | 13 42 | 13 13 | 27 37 | 0 28 | 5 3 |
| T 3 | 22 53 | 22 20 | 2 4 | 24 27 | 0 58 | 12 41 | 0 19 | 1 25 | 2 19 | 19 39 | 0 48 | 22 34 | 0 28 | 23 9 | 0 5 | 21 34 | 1 22 | 12 5 | 10 5 | 13 41 | 13 12 | 27 37 | 0 28 | 5 3 |
| W 4 | 22 47 | 25 18 | 2 59 | 24 31 | 1 4 | 12 18 | 0 28 | 1 33 | 2 20 | 19 41 | 0 48 | 22 35 | 0 28 | 23 9 | 0 5 | 21 34 | 1 22 | 12 5 | 10 5 | 13 40 | 13 11 | 27 36 | 0 28 | 5 3 |
| T 5 | 22 41 | 27 7 | 3 45 | 24 33 | 1 10 | 11 56 | 0 38 | 1 42 | 2 20 | 19 44 | 0 48 | 22 35 | 0 28 | 23 9 | 0 5 | 21 35 | 1 22 | 12 5 | 10 5 | 13 37 | 13 10 | 27 36 | 0 29 | 5 4 |
| F 6 | 22 34 | 27 42 | 4 22 | 24 35 | 1 15 | 11 34 | 0 48 | 1 51 | 2 21 | 19 46 | 0 48 | 22 36 | 0 28 | 23 10 | 0 5 | 21 35 | 1 22 | 12 5 | 10 5 | 13 33 | 13 9 | 27 36 | 0 29 | 5 4 |
| S 7 | 22 26 | 26 59 | 4 47 | 24 34 | 1 20 | 11 13 | 0 58 | 2 0 | 2 22 | 19 48 | 0 48 | 22 36 | 0 27 | 23 10 | 0 5 | 21 35 | 1 22 | 12 5 | 10 4 | 13 29 | 13 8 | 27 35 | 0 29 | 5 4 |
| S 8 | 22 18 | 25 3 | 4 59 | 24 33 | 1 25 | 10 51 | 1 9 | 2 8 | 2 23 | 19 51 | 0 48 | 22 37 | 0 27 | 23 10 | 0 5 | 21 35 | 1 22 | 12 5 | 10 4 | 13 24 | 13 7 | 27 35 | 0 29 | 5 5 |
| M 9 | 22 10 | 22 1 | 4 58 | 24 30 | 1 30 | 10 30 | 1 19 | 2 16 | 2 24 | 19 53 | 0 48 | 22 37 | 0 27 | 23 10 | 0 5 | 21 35 | 1 22 | 12 5 | 10 4 | 13 19 | 13 5 | 27 35 | 0 29 | 5 5 |
| T 10 | 22 2 | 18 2 | 4 45 | 24 26 | 1 34 | 10 9 | 1 30 | 2 24 | 2 24 | 19 55 | 0 48 | 22 38 | 0 27 | 23 11 | 0 5 | 21 35 | 1 22 | 12 5 | 10 4 | 13 15 | 13 4 | 27 34 | 0 29 | 5 5 |
| W11 | 21 52 | 13 17 | 4 18 | 24 20 | 1 39 | 9 48 | 1 42 | 2 32 | 2 25 | 19 57 | 0 48 | 22 38 | 0 27 | 23 11 | 0 5 | 21 36 | 1 22 | 12 5 | 10 4 | 13 12 | 13 3 | 27 34 | 0 29 | 5 5 |
| T 12 | 21 43 | 7 59 | 3 39 | 24 13 | 1 43 | 9 27 | 1 53 | 2 40 | 2 26 | 19 59 | 0 48 | 22 39 | 0 27 | 23 11 | 0 5 | 21 36 | 1 22 | 12 6 | 10 3 | 13 9 | 13 2 | 27 33 | 0 29 | 5 6 |
| F 13 | 21 33 | 2 16 | 2 49 | 24 4 | 1 46 | 9 7 | 2 5 | 2 48 | 2 27 | 20 1 | 0 48 | 22 39 | 0 27 | 23 12 | 0 5 | 21 36 | 1 22 | 12 6 | 10 3 | 13 8 | 13 1 | 27 33 | 0 29 | 5 6 |
| S 14 | 21 23 | 3s39 | 1 50 | 23 54 | 1 50 | 8 47 | 2 17 | 2 56 | 2 28 | 20 3 | 0 48 | 22 40 | 0 27 | 23 12 | 0 5 | 21 36 | 1 22 | 12 6 | 10 3 | 13 7 | 13 0 | 27 33 | 0 28 | 5 6 |
| S 15 | 21 12 | 9 35 | 0 43 | 23 42 | 1 53 | 8 28 | 2 29 | 3 3 | 2 28 | 20 5 | 0 48 | 22 40 | 0 27 | 23 12 | 0 5 | 21 36 | 1 22 | 12 6 | 10 3 | 13 7 | 12 59 | 27 32 | 0 28 | 5 6 |
| M16 | 21 1 | 15 16 | 0s28 | 23 29 | 1 55 | 8 9 | 2 42 | 3 11 | 2 29 | 20 7 | 0 48 | 22 41 | 0 26 | 23 12 | 0 5 | 21 36 | 1 22 | 12 6 | 10 3 | 13 7 | 12 58 | 27 32 | 0 28 | 5 7 |
| T 17 | 20 49 | 20 21 | 1 39 | 23 14 | 1 58 | 7 51 | 2 55 | 3 18 | 2 30 | 20 9 | 0 48 | 22 41 | 0 26 | 23 12 | 0 5 | 21 37 | 1 22 | 12 6 | 10 2 | 13 7 | 12 57 | 27 31 | 0 27 | 5 7 |
| W18 | 20 37 | 24 26 | 2 46 | 22 58 | 2 0 | 7 33 | 3 8 | 3 25 | 2 31 | 20 11 | 0 48 | 22 42 | 0 26 | 23 13 | 0 5 | 21 37 | 1 22 | 12 6 | 10 2 | 13 6 | 12 56 | 27 31 | 0 27 | 5 7 |
| T 19 | 20 25 | 27 2 | 3 45 | 22 40 | 2 2 | 7 16 | 3 21 | 3 32 | 2 32 | 20 13 | 0 48 | 22 42 | 0 26 | 23 13 | 0 5 | 21 37 | 1 22 | 12 6 | 10 2 | 13 4 | 12 55 | 27 30 | 0 27 | 5 8 |
| F 20 | 20 12 | 27 43 | 4 29 | 22 21 | 2 3 | 6 59 | 3 34 | 3 38 | 2 33 | 20 15 | 0 48 | 22 43 | 0 26 | 23 13 | 0 5 | 21 37 | 1 22 | 12 6 | 10 2 | 13 1 | 12 54 | 27 30 | 0 26 | 5 8 |
| S 21 | 19 59 | 26 19 | 4 54 | 22 0 | 2 4 | 6 43 | 3 48 | 3 45 | 2 33 | 20 17 | 0 48 | 22 43 | 0 26 | 23 13 | 0 5 | 21 37 | 1 22 | 12 6 | 10 2 | 12 57 | 12 53 | 27 29 | 0 25 | 5 8 |
| S 22 | 19 45 | 22 59 | 4 59 | 21 37 | 2 4 | 6 27 | 4 2 | 3 51 | 2 34 | 20 18 | 0 48 | 22 43 | 0 26 | 23 14 | 0 5 | 21 37 | 1 22 | 12 7 | 10 1 | 12 53 | 12 52 | 27 29 | 0 25 | 5 8 |
| M23 | 19 31 | 18 7 | 4 42 | 21 13 | 2 5 | 6 12 | 4 16 | 3 58 | 2 35 | 20 20 | 0 48 | 22 44 | 0 26 | 23 14 | 0 5 | 21 37 | 1 22 | 12 7 | 10 1 | 12 49 | 12 50 | 27 28 | 0 24 | 5 8 |
| T 24 | 19 17 | 12 15 | 4 7 | 20 47 | 2 4 | 5 58 | 4 29 | 4 4 | 2 36 | 20 22 | 0 48 | 22 44 | 0 25 | 23 14 | 0 5 | 21 37 | 1 22 | 12 7 | 10 1 | 12 46 | 12 49 | 27 28 | 0 23 | 5 9 |
| W25 | 19 3 | 5 55 | 3 17 | 20 19 | 2 4 | 5 45 | 4 44 | 4 10 | 2 37 | 20 23 | 0 48 | 22 45 | 0 25 | 23 14 | 0 5 | 21 38 | 1 22 | 12 7 | 10 1 | 12 43 | 12 48 | 27 27 | 0 23 | 5 9 |
| T 26 | 18 48 | 0n30 | 2 17 | 19 50 | 2 2 | 5 33 | 4 58 | 4 15 | 2 38 | 20 25 | 0 48 | 22 45 | 0 25 | 23 15 | 0 5 | 21 38 | 1 22 | 12 7 | 10 1 | 12 42 | 12 47 | 27 27 | 0 22 | 5 9 |
| F 27 | 18 32 | 6 41 | 1 11 | 19 20 | 2 1 | 5 21 | 5 12 | 4 21 | 2 38 | 20 27 | 0 48 | 22 46 | 0 25 | 23 15 | 0 5 | 21 38 | 1 22 | 12 7 | 10 0 | 12 41 | 12 46 | 27 26 | 0 21 | 5 9 |
| S 28 | 18 17 | 12 23 | 0 4 | 18 47 | 1 58 | 5 11 | 5 26 | 4 26 | 2 39 | 20 28 | 0 48 | 22 46 | 0 25 | 23 15 | 0 5 | 21 38 | 1 22 | 12 7 | 10 0 | 12 41 | 12 45 | 27 26 | 0 20 | 5 9 |
| S 29 | 18 1 | 17 25 | 1n 2 | 18 14 | 1 55 | 5 1 | 5 40 | 4 31 | 2 40 | 20 30 | 0 48 | 22 46 | 0 25 | 23 15 | 0 5 | 21 38 | 1 22 | 12 8 | 10 0 | 12 41 | 12 44 | 27 25 | 0 19 | 5 10 |
| M30 | 17 45 | 21 38 | 2 3 | 17 38 | 1 52 | 4 53 | 5 54 | 4 36 | 2 41 | 20 31 | 0 48 | 22 47 | 0 25 | 23 15 | 0 5 | 21 38 | 1 22 | 12 8 | 10 0 | 12 41 | 12 43 | 27 25 | 0 18 | 5 10 |
| T 31 | 17s28 | 24n51 | 2n58 | 17s 1 | 1s48 | 4s45 | 6n 7 | 4s41 | 2n42 | 20s33 | 0n48 | 22n47 | 0s24 | 23s16 | 0s 5 | 21s38 | 1n22 | 12n 8 | 9s59 | 12n40 | 12n42 | 27n24 | 0s17 | 5s10 |

Julian Day Number = 2324075.5, Delta T = 42.62 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'08, Lahiri = 18°59'09Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## FEBRUARY 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 44 10 | 12♒ 8'52 | 21♊20 | 20♒18 | 2°R35 | 18♎30 | 6♐ 7 | 8°R45 | 20♐58 | 18♐41 | 10°R11 | 3°R16 | 3♉25 | 16♋ 4 | 18°R41 | W 1 |
| T 2 | 8 48 7 | 13° 9'39 | 3♋11 | 22° 6 | 2♓15 | 18°44 | 6°16 | 8♋42 | 21° 0 | 18°42 | 10♊10 | 3♉ 7 | 3°22 | 16°10 | 18♍37 | T 2 |
| F 3 | 8 52 3 | 14°10'24 | 15° 1 | 23°54 | 1°53 | 18°57 | 6°24 | 8°38 | 21° 3 | 18°44 | 10°10 | 2°56 | 3°19 | 16°17 | 18°34 | F 3 |
| S 4 | 8 56 0 | 15°11'08 | 26°55 | 25°41 | 1°29 | 19°10 | 6°33 | 8°35 | 21° 5 | 18°45 | 10° 9 | 2°43 | 3°15 | 16°24 | 18°31 | S 4 |
| S 5 | 8 59 56 | 16°11'50 | 8♌52 | 27°28 | 1° 2 | 19°22 | 6°41 | 8°31 | 21° 8 | 18°47 | 10° 9 | 2°28 | 3°12 | 16°31 | 18°27 | S 5 |
| M 6 | 9 3 53 | 17°12'31 | 20°56 | 29°15 | 0°33 | 19°33 | 6°49 | 8°28 | 21°10 | 18°48 | 10° 8 | 2°14 | 3° 9 | 16°37 | 18°24 | M 6 |
| T 7 | 9 7 49 | 18°13'10 | 3♍ 7 | 1♈ 1 | 0° 3 | 19°44 | 6°57 | 8°25 | 21°13 | 18°50 | 10° 8 | 2° 2 | 3° 6 | 16°44 | 18°20 | T 7 |
| W 8 | 9 11 46 | 19°13'49 | 15°25 | 2°46 | 29♒31 | 19°55 | 7° 5 | 8°21 | 21°15 | 18°51 | 10° 8 | 1°51 | 3° 3 | 16°51 | 18°16 | W 8 |
| T 9 | 9 15 42 | 20°14'25 | 27°52 | 4°29 | 28°57 | 20° 5 | 7°13 | 8°18 | 21°17 | 18°52 | 10° 7 | 1°44 | 3° 0 | 16°58 | 18°13 | T 9 |
| F 10 | 9 19 39 | 21°15'01 | 10♎29 | 6°10 | 28°23 | 20°14 | 7°21 | 8°15 | 21°19 | 18°54 | 10° 7 | 1°39 | 2°56 | 17° 4 | 18° 9 | F 10 |
| S 11 | 9 23 36 | 22°15'35 | 23°19 | 7°48 | 27°47 | 20°23 | 7°28 | 8°13 | 21°22 | 18°55 | 10° 7 | 1°37 | 2°53 | 17°11 | 18° 5 | S 11 |
| S 12 | 9 27 32 | 23°16'08 | 6♏23 | 9°24 | 27°10 | 20°31 | 7°36 | 8°10 | 21°24 | 18°56 | 10° 7 | 1°D37 | 2°50 | 17°18 | 18° 1 | S 12 |
| M13 | 9 31 29 | 24°16'40 | 19°46 | 10°56 | 26°33 | 20°39 | 7°43 | 8° 7 | 21°26 | 18°57 | 10° 6 | 1°R37 | 2°47 | 17°24 | 17°57 | M13 |
| T 14 | 9 35 25 | 25°17'10 | 3♐29 | 12°25 | 25°56 | 20°46 | 7°50 | 8° 5 | 21°28 | 18°58 | 10° 6 | 1°37 | 2°44 | 17°31 | 17°53 | T 14 |
| W15 | 9 39 22 | 26°17'40 | 17°33 | 13°48 | 25°18 | 20°52 | 7°57 | 8° 2 | 21°30 | 19° 0 | 10° 6 | 1°35 | 2°40 | 17°38 | 17°48 | W15 |
| T 16 | 9 43 18 | 27°18'08 | 1♑59 | 15° 6 | 24°41 | 20°57 | 8° 4 | 8° 0 | 21°32 | 19° 1 | 10° 6 | 1°31 | 2°37 | 17°45 | 17°44 | T 16 |
| F 17 | 9 47 15 | 28°18'35 | 16°43 | 16°18 | 24° 4 | 21° 2 | 8°10 | 7°57 | 21°34 | 19° 2 | 10° 6 | 1°24 | 2°34 | 17°51 | 17°40 | F 17 |
| S 18 | 9 51 11 | 29°19'00 | 1♒40 | 17°24 | 23°28 | 21° 7 | 8°17 | 7°55 | 21°36 | 19° 3 | 10° 6 | 1°15 | 2°31 | 17°58 | 17°36 | S 18 |
| S 19 | 9 55 8 | 0♓19'24 | 16°41 | 18°22 | 22°53 | 21°10 | 8°23 | 7°53 | 21°38 | 19° 4 | 10° 6 | 1° 6 | 2°28 | 18° 5 | 17°31 | S 19 |
| M20 | 9 59 5 | 1°19'45 | 1♓37 | 19°12 | 22°19 | 21°13 | 8°30 | 7°51 | 21°40 | 19° 5 | 10° 5 | 0°56 | 2°25 | 18°11 | 17°27 | M20 |
| T 21 | 10 3 1 | 2°20'06 | 16°18 | 19°54 | 21°47 | 21°15 | 8°36 | 7°49 | 21°41 | 19° 6 | 10° 5 | 0°48 | 2°21 | 18°18 | 17°22 | T 21 |
| W22 | 10 6 58 | 3°20'24 | 0♈38 | 20°26 | 21°16 | 21°17 | 8°42 | 7°48 | 21°43 | 19° 7 | 10° 5 | 0°42 | 2°18 | 18°25 | 17°18 | W22 |
| T 23 | 10 10 54 | 4°20'40 | 14°30 | 20°50 | 20°47 | 21°R17 | 8°47 | 7°46 | 21°45 | 19° 8 | 10°D 5 | 0°38 | 2°15 | 18°32 | 17°13 | T 23 |
| F 24 | 10 14 51 | 5°20'55 | 27°56 | 21° 4 | 20°19 | 21°17 | 8°53 | 7°44 | 21°46 | 19° 9 | 10° 5 | 0°D37 | 2°12 | 18°38 | 17° 8 | F 24 |
| S 25 | 10 18 47 | 6°21'07 | 10♉54 | 21°R 9 | 19°54 | 21°16 | 8°58 | 7°43 | 21°48 | 19° 9 | 10° 5 | 0°37 | 2° 9 | 18°45 | 17° 4 | S 25 |
| S 26 | 10 22 44 | 7°21'18 | 23°30 | 21° 4 | 19°31 | 21°15 | 9° 4 | 7°42 | 21°50 | 19°10 | 10° 6 | 0°38 | 2° 6 | 18°52 | 16°59 | S 26 |
| M27 | 10 26 40 | 8°21'26 | 5♊47 | 20°49 | 19°10 | 21°13 | 9° 9 | 7°40 | 21°51 | 19°11 | 10° 6 | 0°R39 | 2° 2 | 18°58 | 16°54 | M27 |
| T 28 | 10 30 37 | 9♓21'32 | 17♊50 | 20♓26 | 18♒52 | 21♎10 | 9♐14 | 7♋39 | 21♐53 | 19♐12 | 10♊ 6 | 0♉39 | 1♉59 | 19♋ 5 | 16♍50 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 17s11 | 26n56 | 3n44 | 16s23 | 1s44 | 4s39 | 6n21 | 4s46 | 2n42 | 20s34 | 0n49 | 22n48 | 0s24 | 23s16 | 0s 5 | 21s38 | 1n22 | 12n 8 | 9s59 | 12n38 | 12n41 | 27n24 | 0s16 | 5s10 | W 1 |
| T 2 | 16 54 | 27 47 | 4 21 | 15 43 | 1 39 | 4 33 | 6 34 | 4 50 | 2 43 | 20 36 | 0 49 | 22 48 | 0 24 | 23 16 | 0 5 | 21 38 | 1 22 | 12 8 | 9 59 | 12 35 | 12 40 | 27 23 | 0 15 | 5 10 | T 2 |
| F 3 | 16 37 | 27 22 | 4 46 | 15 2 | 1 33 | 4 29 | 6 47 | 4 54 | 2 44 | 20 37 | 0 49 | 22 48 | 0 24 | 23 16 | 0 5 | 21 39 | 1 22 | 12 8 | 9 59 | 12 31 | 12 39 | 27 22 | 0 14 | 5 10 | F 3 |
| S 4 | 16 19 | 25 41 | 4 58 | 14 20 | 1 26 | 4 26 | 6 59 | 4 58 | 2 45 | 20 39 | 0 49 | 22 49 | 0 24 | 23 16 | 0 5 | 21 39 | 1 22 | 12 9 | 9 58 | 12 26 | 12 37 | 27 22 | 0 12 | 5 10 | S 4 |
| S 5 | 16 1 | 22 52 | 4 58 | 13 37 | 1 19 | 4 24 | 7 11 | 5 2 | 2 46 | 20 40 | 0 49 | 22 49 | 0 24 | 23 16 | 0 5 | 21 39 | 1 22 | 12 9 | 9 58 | 12 21 | 12 36 | 27 21 | 0 11 | 5 10 | S 5 |
| M 6 | 15 42 | 19 2 | 4 44 | 12 52 | 1 11 | 4 23 | 7 22 | 5 6 | 2 46 | 20 41 | 0 49 | 22 49 | 0 24 | 23 17 | 0 5 | 21 39 | 1 22 | 12 9 | 9 58 | 12 16 | 12 35 | 27 21 | 0 10 | 5 10 | M 6 |
| T 7 | 15 24 | 14 23 | 4 18 | 12 7 | 1 3 | 4 24 | 7 33 | 5 9 | 2 47 | 20 43 | 0 49 | 22 50 | 0 24 | 23 17 | 0 5 | 21 39 | 1 22 | 12 9 | 9 58 | 12 12 | 12 34 | 27 20 | 0 9 | 5 11 | T 7 |
| W 8 | 15 5 | 9 7 | 3 39 | 11 20 | 0 53 | 4 25 | 7 43 | 5 12 | 2 48 | 20 44 | 0 49 | 22 50 | 0 23 | 23 17 | 0 5 | 21 39 | 1 22 | 12 9 | 9 57 | 12 8 | 12 33 | 27 19 | 0 7 | 5 11 | W 8 |
| T 9 | 14 46 | 3 26 | 2 49 | 10 34 | 0 43 | 4 28 | 7 53 | 5 16 | 2 49 | 20 45 | 0 49 | 22 50 | 0 23 | 23 17 | 0 5 | 21 39 | 1 22 | 12 10 | 9 57 | 12 6 | 12 32 | 27 19 | 0 6 | 5 11 | T 9 |
| F 10 | 14 27 | 2s29 | 1 50 | 9 47 | 0 33 | 4 32 | 8 1 | 5 18 | 2 50 | 20 46 | 0 49 | 22 51 | 0 23 | 23 17 | 0 5 | 21 39 | 1 22 | 12 10 | 9 57 | 12 4 | 12 31 | 27 18 | 0 4 | 5 11 | F 10 |
| S 11 | 14 7 | 8 24 | 0 44 | 8 59 | 0 21 | 4 36 | 8 9 | 5 21 | 2 50 | 20 48 | 0 49 | 22 51 | 0 23 | 23 17 | 0 5 | 21 39 | 1 22 | 12 10 | 9 57 | 12 4 | 12 30 | 27 18 | 0 3 | 5 11 | S 11 |
| S 12 | 13 47 | 14 5 | 0s25 | 8 12 | 0 9 | 4 42 | 8 16 | 5 23 | 2 51 | 20 49 | 0 49 | 22 51 | 0 23 | 23 18 | 0 5 | 21 39 | 1 23 | 12 10 | 9 57 | 12 4 | 12 29 | 27 17 | 0 1 | 5 11 | S 12 |
| M13 | 13 27 | 19 14 | 1 35 | 7 25 | 0n 3 | 4 49 | 8 22 | 5 25 | 2 52 | 20 50 | 0 49 | 22 52 | 0 23 | 23 18 | 0 5 | 21 39 | 1 23 | 12 10 | 9 56 | 12 4 | 12 28 | 27 16 | 0n 0 | 5 11 | M13 |
| T 14 | 13 7 | 23 31 | 2 41 | 6 40 | 0 17 | 4 56 | 8 27 | 5 27 | 2 53 | 20 51 | 0 49 | 22 52 | 0 23 | 23 18 | 0 5 | 21 39 | 1 23 | 12 11 | 9 56 | 12 4 | 12 27 | 27 16 | 0 2 | 5 11 | T 14 |
| W15 | 12 47 | 26 32 | 3 39 | 5 55 | 0 31 | 5 4 | 8 31 | 5 29 | 2 53 | 20 52 | 0 49 | 22 52 | 0 22 | 23 18 | 0 5 | 21 39 | 1 23 | 12 11 | 9 56 | 12 3 | 12 25 | 27 15 | 0 4 | 5 11 | W15 |
| T 16 | 12 26 | 27 53 | 4 24 | 5 11 | 0 45 | 5 14 | 8 34 | 5 30 | 2 54 | 20 53 | 0 49 | 22 52 | 0 22 | 23 18 | 0 5 | 21 39 | 1 23 | 12 11 | 9 55 | 12 1 | 12 24 | 27 14 | 0 5 | 5 11 | T 16 |
| F 17 | 12 5 | 27 17 | 4 54 | 4 30 | 1 0 | 5 23 | 8 37 | 5 32 | 2 55 | 20 54 | 0 49 | 22 53 | 0 22 | 23 18 | 0 5 | 21 40 | 1 23 | 12 11 | 9 55 | 11 59 | 12 23 | 27 14 | 0 7 | 5 11 | F 17 |
| S 18 | 11 44 | 24 45 | 5 3 | 3 51 | 1 15 | 5 34 | 8 38 | 5 33 | 2 55 | 20 55 | 0 49 | 22 53 | 0 22 | 23 18 | 0 5 | 21 40 | 1 23 | 12 11 | 9 55 | 11 56 | 12 22 | 27 13 | 0 9 | 5 11 | S 18 |
| S 19 | 11 23 | 20 30 | 4 52 | 3 14 | 1 30 | 5 45 | 8 38 | 5 33 | 2 56 | 20 56 | 0 50 | 22 53 | 0 22 | 23 19 | 0 5 | 21 40 | 1 23 | 12 12 | 9 55 | 11 53 | 12 21 | 27 12 | 0 10 | 5 11 | S 19 |
| M20 | 11 1 | 14 59 | 4 21 | 2 41 | 1 45 | 5 56 | 8 37 | 5 34 | 2 57 | 20 57 | 0 50 | 22 54 | 0 22 | 23 19 | 0 5 | 21 40 | 1 23 | 12 12 | 9 54 | 11 49 | 12 20 | 27 11 | 0 12 | 5 10 | M20 |
| T 21 | 10 40 | 8 41 | 3 34 | 2 11 | 2 0 | 6 8 | 8 36 | 5 34 | 2 57 | 20 58 | 0 50 | 22 54 | 0 22 | 23 19 | 0 5 | 21 40 | 1 23 | 12 12 | 9 54 | 11 46 | 12 19 | 27 11 | 0 14 | 5 10 | T 21 |
| W22 | 10 18 | 2 5 | 2 33 | 1 44 | 2 14 | 6 19 | 8 33 | 5 34 | 2 58 | 20 59 | 0 50 | 22 54 | 0 21 | 23 19 | 0 5 | 21 40 | 1 23 | 12 12 | 9 54 | 11 44 | 12 18 | 27 10 | 0 16 | 5 10 | W22 |
| T 23 | 9 56 | 4n25 | 1 25 | 1 22 | 2 28 | 6 32 | 8 30 | 5 34 | 2 58 | 20 59 | 0 50 | 22 54 | 0 21 | 23 19 | 0 5 | 21 40 | 1 23 | 12 13 | 9 54 | 11 43 | 12 17 | 27 9 | 0 18 | 5 10 | T 23 |
| F 24 | 9 34 | 10 32 | 0 14 | 1 4 | 2 42 | 6 44 | 8 26 | 5 33 | 2 59 | 21 0 | 0 50 | 22 54 | 0 21 | 23 19 | 0 5 | 21 40 | 1 23 | 12 13 | 9 53 | 11 43 | 12 16 | 27 8 | 0 20 | 5 10 | F 24 |
| S 25 | 9 12 | 16 0 | 0n55 | 0 51 | 2 54 | 6 56 | 8 21 | 5 32 | 2 59 | 21 1 | 0 50 | 22 55 | 0 21 | 23 19 | 0 5 | 21 40 | 1 23 | 12 13 | 9 53 | 11 43 | 12 15 | 27 8 | 0 22 | 5 10 | S 25 |
| S 26 | 8 50 | 20 37 | 2 0 | 0 42 | 3 6 | 7 9 | 8 15 | 5 31 | 3 0 | 21 2 | 0 50 | 22 55 | 0 21 | 23 19 | 0 5 | 21 40 | 1 23 | 12 14 | 9 53 | 11 43 | 12 13 | 27 7 | 0 24 | 5 10 | S 26 |
| M27 | 8 27 | 24 13 | 2 57 | 0 38 | 3 16 | 7 21 | 8 9 | 5 30 | 3 0 | 21 3 | 0 50 | 22 55 | 0 21 | 23 20 | 0 5 | 21 40 | 1 23 | 12 14 | 9 53 | 11 43 | 12 12 | 27 6 | 0 26 | 5 10 | M27 |
| T 28 | 8s 5 | 26n40 | 3n46 | 0s40 | 3n25 | 7s33 | 8n 2 | 5s29 | 3n 1 | 21s 3 | 0n50 | 22n55 | 0s21 | 23s20 | 0s 5 | 21s40 | 1n23 | 12n14 | 9s52 | 11n43 | 12n11 | 27n 5 | 0n28 | 5s 9 | T 28 |

Julian Day Number = 2324106.5, Delta T = 42.56 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'13, Lahiri = 18°59'13Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## MARCH 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 34 34 | 10♓21'36 | 29♊44 | 19°R55 | 18°R35 | 21°R 6 | 9♐19 | 7°R38 | 21♐54 | 19♐12 | 10♊ 6 | 0°R37 | 1♉56 | 19♋12 | 16°R45 | W 1 |
| T 2 | 10 38 30 | 11°21'38 | 11♋35 | 19♓16 | 18♒22 | 21♎ 1 | 9°23 | 7♋37 | 21°55 | 19°13 | 10° 6 | 0♉32 | 1°53 | 19°19 | 16♍40 | T 2 |
| F 3 | 10 42 27 | 12°21'38 | 23°27 | 18°31 | 18°11 | 20°56 | 9°28 | 7°37 | 21°57 | 19°14 | 10° 6 | 0°26 | 1°50 | 19°25 | 16°35 | F 3 |
| S 4 | 10 46 23 | 13°21'36 | 5♌23 | 17°41 | 18° 2 | 20°50 | 9°32 | 7°36 | 21°58 | 19°14 | 10° 6 | 0°18 | 1°46 | 19°32 | 16°31 | S 4 |
| S 5 | 10 50 20 | 14°21'31 | 17°26 | 16°46 | 17°55 | 20°43 | 9°36 | 7°35 | 21°59 | 19°15 | 10° 7 | 0° 9 | 1°43 | 19°39 | 16°26 | S 5 |
| M 6 | 10 54 16 | 15°21'25 | 29°38 | 15°49 | 17°52 | 20°36 | 9°40 | 7°35 | 22° 0 | 19°15 | 10° 7 | 0° 0 | 1°40 | 19°45 | 16°21 | M 6 |
| T 7 | 10 58 13 | 16°21'16 | 12♍ 1 | 14°50 | 17°D50 | 20°27 | 9°44 | 7°35 | 22° 1 | 19°16 | 10° 7 | 29♈52 | 1°37 | 19°52 | 16°16 | T 7 |
| W 8 | 11 2 9 | 17°21'05 | 24°34 | 13°51 | 17°51 | 20°18 | 9°47 | 7°34 | 22° 2 | 19°16 | 10° 7 | 29°46 | 1°34 | 19°59 | 16°11 | W 8 |
| T 9 | 11 6 6 | 18°20'53 | 7♎19 | 12°54 | 17°55 | 20° 8 | 9°51 | 7°D34 | 22° 3 | 19°17 | 10° 8 | 29°42 | 1°31 | 20° 6 | 16° 6 | T 9 |
| F 10 | 11 10 3 | 19°20'38 | 20°15 | 11°59 | 18° 0 | 19°58 | 9°54 | 7°34 | 22° 4 | 19°17 | 10° 8 | 29°39 | 1°27 | 20°12 | 16° 2 | F 10 |
| S 11 | 11 13 59 | 20°20'22 | 3♏23 | 11° 7 | 18° 8 | 19°46 | 9°57 | 7°35 | 22° 5 | 19°18 | 10° 8 | 29°D39 | 1°24 | 20°19 | 15°57 | S 11 |
| S 12 | 11 17 56 | 21°20'04 | 16°43 | 10°20 | 18°19 | 19°34 | 10° 0 | 7°35 | 22° 6 | 19°18 | 10° 9 | 29°40 | 1°21 | 20°26 | 15°52 | S 12 |
| M13 | 11 21 52 | 22°19'45 | 0♐17 | 9°37 | 18°31 | 19°21 | 10° 3 | 7°35 | 22° 7 | 19°18 | 10° 9 | 29°41 | 1°18 | 20°33 | 15°47 | M13 |
| T 14 | 11 25 49 | 23°19'23 | 14° 3 | 9° 0 | 18°46 | 19° 7 | 10° 5 | 7°36 | 22° 7 | 19°19 | 10°10 | 29°43 | 1°15 | 20°39 | 15°43 | T 14 |
| W15 | 11 29 45 | 24°19'00 | 28° 4 | 8°28 | 19° 2 | 18°53 | 10° 8 | 7°36 | 22° 8 | 19°19 | 10°10 | 29°R43 | 1°12 | 20°46 | 15°38 | W15 |
| T 16 | 11 33 42 | 25°18'35 | 12♑17 | 8° 3 | 19°21 | 18°38 | 10°10 | 7°37 | 22° 9 | 19°19 | 10°10 | 29°42 | 1° 8 | 20°53 | 15°33 | T 16 |
| F 17 | 11 37 38 | 26°18'09 | 26°41 | 7°44 | 19°41 | 18°22 | 10°12 | 7°38 | 22° 9 | 19°19 | 10°11 | 29°39 | 1° 5 | 20°59 | 15°28 | F 17 |
| S 18 | 11 41 35 | 27°17'41 | 11♒13 | 7°31 | 20° 3 | 18° 6 | 10°14 | 7°39 | 22°10 | 19°19 | 10°11 | 29°35 | 1° 2 | 21° 6 | 15°24 | S 18 |
| S 19 | 11 45 32 | 28°17'10 | 25°46 | 7°24 | 20°28 | 17°48 | 10°15 | 7°40 | 22°10 | 19°19 | 10°12 | 29°30 | 0°59 | 21°13 | 15°19 | S 19 |
| M20 | 11 49 28 | 29°16'38 | 10♓16 | 7°D23 | 20°53 | 17°31 | 10°17 | 7°41 | 22°11 | 19°20 | 10°12 | 29°26 | 0°56 | 21°20 | 15°14 | M20 |
| T 21 | 11 53 25 | 0♈16'04 | 24°35 | 7°27 | 21°21 | 17°12 | 10°18 | 7°42 | 22°11 | 19°20 | 10°13 | 29°22 | 0°52 | 21°26 | 15°10 | T 21 |
| W22 | 11 57 21 | 1°15'28 | 8♈39 | 7°37 | 21°50 | 16°53 | 10°19 | 7°43 | 22°11 | 19°R20 | 10°14 | 29°19 | 0°49 | 21°33 | 15° 5 | W22 |
| T 23 | 12 1 18 | 2°14'50 | 22°22 | 7°53 | 22°20 | 16°34 | 10°20 | 7°45 | 22°11 | 19°20 | 10°14 | 29°18 | 0°46 | 21°40 | 15° 1 | T 23 |
| F 24 | 12 5 14 | 3°14'09 | 5♉43 | 8°13 | 22°52 | 16°14 | 10°21 | 7°46 | 22°12 | 19°19 | 10°15 | 29°D18 | 0°43 | 21°46 | 14°56 | F 24 |
| S 25 | 12 9 11 | 4°13'27 | 18°42 | 8°39 | 23°25 | 15°54 | 10°21 | 7°48 | 22°12 | 19°19 | 10°15 | 29°19 | 0°40 | 21°53 | 14°52 | S 25 |
| S 26 | 12 13 7 | 5°12'42 | 1♊20 | 9° 8 | 24° 0 | 15°33 | 10°22 | 7°50 | 22°12 | 19°19 | 10°16 | 29°20 | 0°37 | 22° 0 | 14°48 | S 26 |
| M27 | 12 17 4 | 6°11'55 | 13°40 | 9°42 | 24°36 | 15°11 | 10°R22 | 7°52 | 22°R12 | 19°19 | 10°17 | 29°22 | 0°33 | 22° 7 | 14°43 | M27 |
| T 28 | 12 21 1 | 7°11'06 | 25°47 | 10°21 | 25°13 | 14°50 | 10°22 | 7°54 | 22°12 | 19°19 | 10°17 | 29°23 | 0°30 | 22°13 | 14°39 | T 28 |
| W29 | 12 24 57 | 8°10'14 | 7♋44 | 11° 3 | 25°51 | 14°28 | 10°21 | 7°56 | 22°12 | 19°19 | 10°18 | 29°R24 | 0°27 | 22°20 | 14°35 | W29 |
| T 30 | 12 28 54 | 9° 9'20 | 19°37 | 11°48 | 26°31 | 14° 6 | 10°21 | 7°58 | 22°12 | 19°18 | 10°19 | 29°23 | 0°24 | 22°27 | 14°31 | T 30 |
| F 31 | 12 32 50 | 10♈ 8'24 | 1♌30 | 12♓37 | 27♒12 | 13♎43 | 10♐20 | 8♋ 0 | 22♐12 | 19♐18 | 10♊20 | 29♈22 | 0♉21 | 22♋34 | 14♍27 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 7s42 | 27n53 | 4n24 | 0s45 | 3n32 | 7s45 | 7n55 | 5s27 | 3n 1 | 21s 4 | 0n50 | 22n56 | 0s20 | 23s20 | 0s 5 | 21s40 | 1n23 | 12n14 | 9s52 | 11n42 | 12n10 | 27n 5 | 0n30 | 5s 9 |
| T 2 | 7 19 | 27 48 | 4 50 | 0 56 | 3 37 | 7 56 | 7 47 | 5 25 | 3 2 | 21 5 | 0 50 | 22 56 | 0 20 | 23 20 | 0 5 | 21 40 | 1 23 | 12 15 | 9 52 | 11 41 | 12 9 | 27 4 | 0 32 | 5 9 |
| F 3 | 6 56 | 26 27 | 5 5 | 1 10 | 3 40 | 8 8 | 7 39 | 5 23 | 3 2 | 21 5 | 0 50 | 22 56 | 0 20 | 23 20 | 0 5 | 21 40 | 1 23 | 12 15 | 9 52 | 11 39 | 12 8 | 27 3 | 0 34 | 5 9 |
| S 4 | 6 33 | 23 54 | 5 6 | 1 29 | 3 41 | 8 19 | 7 30 | 5 20 | 3 2 | 21 6 | 0 50 | 22 56 | 0 20 | 23 20 | 0 5 | 21 40 | 1 23 | 12 15 | 9 51 | 11 36 | 12 7 | 27 2 | 0 36 | 5 9 |
| S 5 | 6 10 | 20 17 | 4 53 | 1 51 | 3 40 | 8 29 | 7 21 | 5 17 | 3 2 | 21 6 | 0 50 | 22 56 | 0 20 | 23 20 | 0 5 | 21 40 | 1 23 | 12 15 | 9 51 | 11 33 | 12 6 | 27 1 | 0 38 | 5 8 |
| M 6 | 5 47 | 15 47 | 4 27 | 2 16 | 3 37 | 8 39 | 7 11 | 5 14 | 3 3 | 21 7 | 0 50 | 22 56 | 0 20 | 23 20 | 0 6 | 21 40 | 1 23 | 12 16 | 9 51 | 11 30 | 12 5 | 27 1 | 0 40 | 5 8 |
| T 7 | 5 24 | 10 35 | 3 49 | 2 43 | 3 32 | 8 49 | 7 2 | 5 11 | 3 3 | 21 7 | 0 51 | 22 57 | 0 20 | 23 20 | 0 6 | 21 40 | 1 23 | 12 16 | 9 51 | 11 27 | 12 4 | 27 0 | 0 42 | 5 8 |
| W 8 | 5 0 | 4 53 | 2 58 | 3 12 | 3 26 | 8 58 | 6 52 | 5 8 | 3 3 | 21 8 | 0 51 | 22 57 | 0 20 | 23 20 | 0 6 | 21 40 | 1 23 | 12 16 | 9 50 | 11 25 | 12 2 | 26 59 | 0 44 | 5 7 |
| T 9 | 4 37 | 1s 6 | 1 58 | 3 42 | 3 17 | 9 7 | 6 42 | 5 4 | 3 3 | 21 8 | 0 51 | 22 57 | 0 19 | 23 20 | 0 6 | 21 40 | 1 23 | 12 17 | 9 50 | 11 23 | 12 1 | 26 58 | 0 46 | 5 7 |
| F 10 | 4 14 | 7 9 | 0 51 | 4 12 | 3 7 | 9 15 | 6 31 | 5 0 | 3 3 | 21 9 | 0 51 | 22 57 | 0 19 | 23 20 | 0 6 | 21 40 | 1 24 | 12 17 | 9 50 | 11 22 | 12 0 | 26 57 | 0 48 | 5 7 |
| S 11 | 3 50 | 12 59 | 0s20 | 4 42 | 2 56 | 9 23 | 6 21 | 4 56 | 3 3 | 21 9 | 0 51 | 22 57 | 0 19 | 23 21 | 0 6 | 21 40 | 1 24 | 12 17 | 9 50 | 11 22 | 11 59 | 26 56 | 0 51 | 5 7 |
| S 12 | 3 27 | 18 20 | 1 31 | 5 12 | 2 43 | 9 30 | 6 10 | 4 51 | 3 3 | 21 9 | 0 51 | 22 57 | 0 19 | 23 21 | 0 6 | 21 40 | 1 24 | 12 17 | 9 49 | 11 23 | 11 58 | 26 55 | 0 53 | 5 6 |
| M13 | 3 3 | 22 50 | 2 39 | 5 40 | 2 30 | 9 36 | 6 0 | 4 46 | 3 2 | 21 10 | 0 51 | 22 57 | 0 19 | 23 21 | 0 6 | 21 40 | 1 24 | 12 18 | 9 49 | 11 23 | 11 57 | 26 55 | 0 55 | 5 6 |
| T 14 | 2 39 | 26 8 | 3 38 | 6 7 | 2 15 | 9 42 | 5 49 | 4 41 | 3 2 | 21 10 | 0 51 | 22 57 | 0 19 | 23 21 | 0 6 | 21 40 | 1 24 | 12 18 | 9 49 | 11 24 | 11 56 | 26 54 | 0 57 | 5 5 |
| W15 | 2 16 | 27 54 | 4 25 | 6 33 | 2 1 | 9 47 | 5 38 | 4 36 | 3 2 | 21 10 | 0 51 | 22 58 | 0 19 | 23 21 | 0 6 | 21 40 | 1 24 | 12 18 | 9 49 | 11 24 | 11 55 | 26 53 | 0 59 | 5 5 |
| T 16 | 1 52 | 27 51 | 4 57 | 6 56 | 1 46 | 9 51 | 5 28 | 4 31 | 3 2 | 21 10 | 0 51 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 19 | 9 48 | 11 23 | 11 54 | 26 52 | 1 1 | 5 5 |
| F 17 | 1 28 | 25 57 | 5 11 | 7 17 | 1 31 | 9 55 | 5 17 | 4 25 | 3 1 | 21 11 | 0 51 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 19 | 9 48 | 11 22 | 11 52 | 26 51 | 1 4 | 5 4 |
| S 18 | 1 5 | 22 20 | 5 5 | 7 36 | 1 15 | 9 59 | 5 6 | 4 20 | 3 1 | 21 11 | 0 51 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 19 | 9 48 | 11 21 | 11 51 | 26 50 | 1 6 | 5 4 |
| S 19 | 0 41 | 17 20 | 4 40 | 7 53 | 1 0 | 10 1 | 4 56 | 4 14 | 3 0 | 21 11 | 0 51 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 20 | 9 48 | 11 19 | 11 50 | 26 49 | 1 8 | 5 3 |
| M20 | 0 17 | 11 23 | 3 56 | 8 7 | 0 46 | 10 3 | 4 45 | 4 7 | 2 59 | 21 11 | 0 51 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 20 | 9 47 | 11 18 | 11 49 | 26 48 | 1 10 | 5 3 |
| T 21 | 0n 6 | 4 53 | 2 58 | 8 18 | 0 31 | 10 5 | 4 35 | 4 1 | 2 59 | 21 11 | 0 51 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 20 | 9 47 | 11 16 | 11 48 | 26 47 | 1 12 | 5 3 |
| W22 | 0 30 | 1n44 | 1 51 | 8 28 | 0 17 | 10 5 | 4 24 | 3 55 | 2 58 | 21 11 | 0 52 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 21 | 9 47 | 11 15 | 11 47 | 26 46 | 1 14 | 5 2 |
| T 23 | 0 54 | 8 8 | 0 38 | 8 35 | 0 3 | 10 5 | 4 14 | 3 48 | 2 57 | 21 12 | 0 52 | 22 58 | 0 18 | 23 21 | 0 6 | 21 40 | 1 24 | 12 21 | 9 47 | 11 15 | 11 46 | 26 45 | 1 17 | 5 2 |
| F 24 | 1 17 | 14 0 | 0n35 | 8 39 | 0s10 | 10 5 | 4 4 | 3 41 | 2 56 | 21 12 | 0 52 | 22 58 | 0 17 | 23 21 | 0 6 | 21 40 | 1 24 | 12 21 | 9 46 | 11 15 | 11 45 | 26 44 | 1 19 | 5 1 |
| S 25 | 1 41 | 19 6 | 1 45 | 8 42 | 0 23 | 10 4 | 3 53 | 3 34 | 2 55 | 21 12 | 0 52 | 22 58 | 0 17 | 23 21 | 0 6 | 21 40 | 1 24 | 12 22 | 9 46 | 11 15 | 11 44 | 26 43 | 1 21 | 5 1 |
| S 26 | 2 4 | 23 11 | 2 47 | 8 42 | 0 35 | 10 2 | 3 43 | 3 27 | 2 54 | 21 12 | 0 52 | 22 58 | 0 17 | 23 21 | 0 6 | 21 39 | 1 24 | 12 22 | 9 46 | 11 16 | 11 42 | 26 42 | 1 23 | 5 0 |
| M27 | 2 28 | 26 8 | 3 40 | 8 40 | 0 46 | 10 0 | 3 33 | 3 20 | 2 53 | 21 12 | 0 52 | 22 58 | 0 17 | 23 21 | 0 6 | 21 39 | 1 24 | 12 22 | 9 46 | 11 16 | 11 41 | 26 41 | 1 25 | 5 0 |
| T 28 | 2 51 | 27 47 | 4 22 | 8 35 | 0 57 | 9 57 | 3 24 | 3 13 | 2 52 | 21 11 | 0 52 | 22 58 | 0 17 | 23 21 | 0 6 | 21 39 | 1 24 | 12 22 | 9 46 | 11 17 | 11 40 | 26 40 | 1 27 | 4 59 |
| W29 | 3 15 | 28 8 | 4 53 | 8 29 | 1 8 | 9 53 | 3 14 | 3 6 | 2 50 | 21 11 | 0 52 | 22 58 | 0 17 | 23 21 | 0 6 | 21 39 | 1 24 | 12 23 | 9 45 | 11 17 | 11 39 | 26 39 | 1 29 | 4 59 |
| T 30 | 3 38 | 27 10 | 5 10 | 8 21 | 1 18 | 9 49 | 3 4 | 2 58 | 2 49 | 21 11 | 0 52 | 22 58 | 0 17 | 23 21 | 0 6 | 21 39 | 1 24 | 12 23 | 9 45 | 11 17 | 11 38 | 26 38 | 1 31 | 4 58 |
| F 31 | 4n 1 | 24n58 | 5n15 | 8s11 | 1s27 | 9s44 | 2n55 | 2s51 | 2n47 | 21s11 | 0n52 | 22n58 | 0s16 | 23s21 | 0s 6 | 21s39 | 1n24 | 12n23 | 9s45 | 11n16 | 11n37 | 26n37 | 1n33 | 4s58 |

Julian Day Number = 2324134.5, Delta T = 42.50 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'17, Lahiri = 18°59'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## APRIL 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 36 47 | 11♈ 7'25 | 13♌28 | 13♓30 | 27♒53 | 13°R21 | 10°R19 | 8♋ 3 | 22°R11 | 19°R18 | 10♊20 | 29°R20 | 0♉17 | 22♋40 | 14°R23 | S 1 |
| S 2 | 12 40 43 | 12° 6'25 | 25°35 | 14°25 | 28°36 | 12♎58 | 10♐18 | 8° 5 | 22♐11 | 19♐17 | 10°21 | 29♈17 | 0°14 | 22°47 | 14♍19 | S 2 |
| M 3 | 12 44 40 | 13° 5'21 | 7♍53 | 15°23 | 29°20 | 12°35 | 10°17 | 8° 8 | 22°11 | 19°17 | 10°22 | 29°15 | 0°11 | 22°54 | 14°15 | M 3 |
| T 4 | 12 48 36 | 14° 4'16 | 20°25 | 16°24 | 0♓ 4 | 12°12 | 10°16 | 8°11 | 22°10 | 19°17 | 10°23 | 29°12 | 0° 8 | 23° 0 | 14°11 | T 4 |
| W 5 | 12 52 33 | 15° 3'09 | 3♎13 | 17°28 | 0°50 | 11°49 | 10°14 | 8°13 | 22°10 | 19°16 | 10°24 | 29°11 | 0° 5 | 23° 7 | 14° 8 | W 5 |
| T 6 | 12 56 29 | 16° 1'59 | 16°17 | 18°34 | 1°36 | 11°26 | 10°13 | 8°16 | 22° 9 | 19°16 | 10°25 | 29°10 | 0° 2 | 23°14 | 14° 4 | T 6 |
| F 7 | 13 0 26 | 17° 0'47 | 29°36 | 19°43 | 2°23 | 11° 3 | 10°11 | 8°19 | 22° 9 | 19°15 | 10°25 | 29°D 9 | 29♈58 | 23°21 | 14° 1 | F 7 |
| S 8 | 13 4 23 | 17°59'34 | 13♏ 9 | 20°54 | 3°11 | 10°40 | 10° 9 | 8°22 | 22° 8 | 19°15 | 10°26 | 29°10 | 29°55 | 23°27 | 13°57 | S 8 |
| S 9 | 13 8 19 | 18°58'18 | 26°54 | 22° 8 | 4° 0 | 10°17 | 10° 6 | 8°26 | 22° 8 | 19°14 | 10°27 | 29°10 | 29°52 | 23°34 | 13°54 | S 9 |
| M10 | 13 12 16 | 19°57'01 | 10♐50 | 23°23 | 4°50 | 9°55 | 10° 4 | 8°29 | 22° 7 | 19°13 | 10°28 | 29°11 | 29°49 | 23°41 | 13°50 | M10 |
| T 11 | 13 16 12 | 20°55'43 | 24°54 | 24°41 | 5°40 | 9°33 | 10° 1 | 8°32 | 22° 6 | 19°13 | 10°29 | 29°12 | 29°46 | 23°47 | 13°47 | T 11 |
| W12 | 13 20 9 | 21°54'22 | 9♑ 3 | 26° 0 | 6°31 | 9°11 | 9°58 | 8°36 | 22° 6 | 19°12 | 10°30 | 29°12 | 29°43 | 23°54 | 13°44 | W12 |
| T 13 | 13 24 5 | 22°53'00 | 23°16 | 27°22 | 7°23 | 8°49 | 9°55 | 8°40 | 22° 5 | 19°12 | 10°31 | 29°R13 | 29°39 | 24° 1 | 13°41 | T 13 |
| F 14 | 13 28 2 | 23°51'36 | 7♒30 | 28°46 | 8°15 | 8°28 | 9°52 | 8°43 | 22° 4 | 19°11 | 10°32 | 29°12 | 29°36 | 24° 8 | 13°38 | F 14 |
| S 15 | 13 31 58 | 24°50'11 | 21°42 | 0♈11 | 9° 8 | 8° 7 | 9°49 | 8°47 | 22° 3 | 19°10 | 10°33 | 29°12 | 29°33 | 24°14 | 13°35 | S 15 |
| S 16 | 13 35 55 | 25°48'44 | 5♓50 | 1°39 | 10° 2 | 7°46 | 9°45 | 8°51 | 22° 2 | 19° 9 | 10°34 | 29°12 | 29°30 | 24°21 | 13°32 | S 16 |
| M17 | 13 39 52 | 26°47'15 | 19°51 | 3° 8 | 10°56 | 7°27 | 9°42 | 8°55 | 22° 1 | 19° 8 | 10°35 | 29°11 | 29°27 | 24°28 | 13°30 | M17 |
| T 18 | 13 43 48 | 27°45'44 | 3♈41 | 4°39 | 11°50 | 7° 7 | 9°38 | 8°59 | 22° 0 | 19° 8 | 10°36 | 29°11 | 29°23 | 24°35 | 13°27 | T 18 |
| W19 | 13 47 45 | 28°44'12 | 17°19 | 6°12 | 12°45 | 6°48 | 9°34 | 9° 3 | 21°59 | 19° 7 | 10°37 | 29°11 | 29°20 | 24°41 | 13°25 | W19 |
| T 20 | 13 51 41 | 29°42'38 | 0♉42 | 7°46 | 13°41 | 6°30 | 9°29 | 9° 7 | 21°58 | 19° 6 | 10°38 | 29°11 | 29°17 | 24°48 | 13°22 | T 20 |
| F 21 | 13 55 38 | 0♉41'02 | 13°48 | 9°23 | 14°37 | 6°12 | 9°25 | 9°12 | 21°57 | 19° 5 | 10°39 | 29°11 | 29°14 | 24°55 | 13°20 | F 21 |
| S 22 | 13 59 34 | 1°39'24 | 26°38 | 11° 1 | 15°34 | 5°55 | 9°21 | 9°16 | 21°55 | 19° 4 | 10°41 | 29°11 | 29°11 | 25° 1 | 13°18 | S 22 |
| S 23 | 14 3 31 | 2°37'44 | 9♊12 | 12°41 | 16°31 | 5°38 | 9°16 | 9°20 | 21°54 | 19° 3 | 10°42 | 29°11 | 29° 8 | 25° 8 | 13°16 | S 23 |
| M24 | 14 7 27 | 3°36'03 | 21°31 | 14°23 | 17°28 | 5°23 | 9°11 | 9°25 | 21°53 | 19° 2 | 10°43 | 29°10 | 29° 4 | 25°15 | 13°14 | M24 |
| T 25 | 14 11 24 | 4°34'19 | 3♋38 | 16° 6 | 18°26 | 5° 8 | 9° 6 | 9°30 | 21°51 | 19° 1 | 10°44 | 29° 9 | 29° 1 | 25°22 | 13°12 | T 25 |
| W26 | 14 15 21 | 5°32'33 | 15°36 | 17°52 | 19°24 | 4°53 | 9° 1 | 9°34 | 21°50 | 19° 0 | 10°45 | 29° 9 | 28°58 | 25°28 | 13°10 | W26 |
| T 27 | 14 19 17 | 6°30'46 | 27°30 | 19°39 | 20°23 | 4°40 | 8°56 | 9°39 | 21°48 | 18°59 | 10°46 | 29° 8 | 28°55 | 25°35 | 13° 9 | T 27 |
| F 28 | 14 23 14 | 7°28'56 | 9♌23 | 21°28 | 21°22 | 4°27 | 8°50 | 9°44 | 21°47 | 18°58 | 10°47 | 29°D 8 | 28°52 | 25°42 | 13° 7 | F 28 |
| S 29 | 14 27 10 | 8°27'04 | 21°21 | 23°19 | 22°21 | 4°15 | 8°45 | 9°49 | 21°45 | 18°57 | 10°49 | 29° 9 | 28°49 | 25°49 | 13° 6 | S 29 |
| S 30 | 14 31 7 | 9♉25'11 | 3♍28 | 25♈11 | 23♓21 | 4♎ 3 | 8♐39 | 9♋54 | 21♐44 | 18♐56 | 10♊50 | 29♈ 9 | 28♈45 | 25♋55 | 13♍ 5 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n25 | 21n41 | 5n 5 | 7s59 | 1s36 | 9s38 | 2n46 | 2s44 | 2n46 | 21s11 | 0n52 | 22n58 | 0s16 | 23s21 | 0s 6 | 21s39 | 1n24 | 12n24 | 9s45 | 11n15 | 11n36 | 26n36 | 1n35 | 4s57 |
| S 2 | 4 48 | 17 27 | 4 42 | 7 45 | 1 44 | 9 32 | 2 36 | 2 36 | 2 44 | 21 11 | 0 52 | 22 58 | 0 16 | 23 21 | 0 6 | 21 39 | 1 24 | 12 24 | 9 44 | 11 15 | 11 35 | 26 35 | 1 38 | 4 56 |
| M 3 | 5 11 | 12 26 | 4 6 | 7 29 | 1 52 | 9 26 | 2 27 | 2 29 | 2 43 | 21 11 | 0 52 | 22 58 | 0 16 | 23 21 | 0 6 | 21 39 | 1 24 | 12 24 | 9 44 | 11 14 | 11 34 | 26 34 | 1 40 | 4 56 |
| T 4 | 5 34 | 6 50 | 3 18 | 7 12 | 1 59 | 9 19 | 2 18 | 2 22 | 2 41 | 21 10 | 0 52 | 22 58 | 0 16 | 23 21 | 0 6 | 21 39 | 1 25 | 12 25 | 9 44 | 11 13 | 11 32 | 26 33 | 1 42 | 4 55 |
| W 5 | 5 56 | 0 50 | 2 18 | 6 53 | 2 5 | 9 11 | 2 10 | 2 15 | 2 39 | 21 10 | 0 52 | 22 58 | 0 16 | 23 21 | 0 6 | 21 39 | 1 25 | 12 25 | 9 44 | 11 12 | 11 31 | 26 32 | 1 43 | 4 55 |
| T 6 | 6 19 | 5s20 | 1 11 | 6 33 | 2 11 | 9 3 | 2 1 | 2 7 | 2 37 | 21 10 | 0 52 | 22 58 | 0 16 | 23 21 | 0 6 | 21 39 | 1 25 | 12 25 | 9 44 | 11 12 | 11 30 | 26 31 | 1 45 | 4 54 |
| F 7 | 6 42 | 11 23 | 0s 2 | 6 10 | 2 17 | 8 54 | 1 53 | 2 0 | 2 35 | 21 9 | 0 52 | 22 58 | 0 16 | 23 21 | 0 6 | 21 39 | 1 25 | 12 26 | 9 43 | 11 12 | 11 29 | 26 30 | 1 47 | 4 53 |
| S 8 | 7 4 | 17 2 | 1 17 | 5 47 | 2 22 | 8 44 | 1 44 | 1 53 | 2 33 | 21 9 | 0 52 | 22 58 | 0 15 | 23 21 | 0 6 | 21 39 | 1 25 | 12 26 | 9 43 | 11 12 | 11 28 | 26 29 | 1 49 | 4 53 |
| S 9 | 7 27 | 21 54 | 2 28 | 5 22 | 2 26 | 8 34 | 1 36 | 1 46 | 2 31 | 21 9 | 0 52 | 22 58 | 0 15 | 23 21 | 0 6 | 21 39 | 1 25 | 12 26 | 9 43 | 11 12 | 11 27 | 26 28 | 1 51 | 4 52 |
| M10 | 7 49 | 25 35 | 3 31 | 4 55 | 2 29 | 8 24 | 1 28 | 1 39 | 2 29 | 21 8 | 0 52 | 22 58 | 0 15 | 23 21 | 0 6 | 21 38 | 1 25 | 12 27 | 9 43 | 11 12 | 11 26 | 26 27 | 1 53 | 4 51 |
| T 11 | 8 11 | 27 45 | 4 22 | 4 27 | 2 33 | 8 13 | 1 20 | 1 33 | 2 26 | 21 8 | 0 53 | 22 58 | 0 15 | 23 21 | 0 6 | 21 38 | 1 25 | 12 27 | 9 43 | 11 13 | 11 25 | 26 26 | 1 55 | 4 51 |
| W12 | 8 33 | 28 7 | 4 57 | 3 58 | 2 35 | 8 1 | 1 12 | 1 26 | 2 24 | 21 7 | 0 53 | 22 58 | 0 15 | 23 21 | 0 6 | 21 38 | 1 25 | 12 27 | 9 42 | 11 13 | 11 23 | 26 24 | 1 57 | 4 50 |
| T 13 | 8 55 | 26 39 | 5 15 | 3 27 | 2 37 | 7 49 | 1 5 | 1 20 | 2 22 | 21 7 | 0 53 | 22 57 | 0 15 | 23 21 | 0 6 | 21 38 | 1 25 | 12 28 | 9 42 | 11 13 | 11 22 | 26 23 | 1 58 | 4 49 |
| F 14 | 9 17 | 23 29 | 5 13 | 2 55 | 2 39 | 7 36 | 0 57 | 1 14 | 2 19 | 21 6 | 0 53 | 22 57 | 0 15 | 23 21 | 0 6 | 21 38 | 1 25 | 12 28 | 9 42 | 11 13 | 11 21 | 26 22 | 2 0 | 4 49 |
| S 15 | 9 38 | 18 55 | 4 53 | 2 22 | 2 39 | 7 23 | 0 50 | 1 8 | 2 17 | 21 6 | 0 53 | 22 57 | 0 15 | 23 21 | 0 6 | 21 38 | 1 25 | 12 28 | 9 42 | 11 13 | 11 20 | 26 21 | 2 2 | 4 48 |
| S 16 | 10 0 | 13 20 | 4 14 | 1 47 | 2 40 | 7 10 | 0 43 | 1 2 | 2 15 | 21 5 | 0 53 | 22 57 | 0 14 | 23 21 | 0 6 | 21 38 | 1 25 | 12 29 | 9 42 | 11 13 | 11 19 | 26 20 | 2 4 | 4 47 |
| M17 | 10 21 | 7 7 | 3 21 | 1 12 | 2 40 | 6 56 | 0 36 | 0 56 | 2 12 | 21 5 | 0 53 | 22 57 | 0 14 | 23 21 | 0 6 | 21 38 | 1 25 | 12 29 | 9 41 | 11 12 | 11 18 | 26 19 | 2 5 | 4 47 |
| T 18 | 10 42 | 0 37 | 2 17 | 0 35 | 2 39 | 6 42 | 0 29 | 0 51 | 2 10 | 21 4 | 0 53 | 22 57 | 0 14 | 23 21 | 0 6 | 21 38 | 1 25 | 12 29 | 9 41 | 11 12 | 11 17 | 26 18 | 2 7 | 4 46 |
| W19 | 11 3 | 5n48 | 1 5 | 0n 3 | 2 38 | 6 27 | 0 22 | 0 46 | 2 7 | 21 4 | 0 53 | 22 57 | 0 14 | 23 21 | 0 6 | 21 38 | 1 25 | 12 30 | 9 41 | 11 12 | 11 16 | 26 16 | 2 8 | 4 45 |
| T 20 | 11 24 | 11 52 | 0n 8 | 0 42 | 2 36 | 6 11 | 0 16 | 0 41 | 2 4 | 21 3 | 0 53 | 22 56 | 0 14 | 23 21 | 0 6 | 21 38 | 1 25 | 12 30 | 9 41 | 11 12 | 11 15 | 26 15 | 2 10 | 4 45 |
| F 21 | 11 44 | 17 17 | 1 20 | 1 22 | 2 33 | 5 56 | 0 9 | 0 36 | 2 2 | 21 2 | 0 53 | 22 56 | 0 14 | 23 21 | 0 6 | 21 37 | 1 25 | 12 30 | 9 41 | 11 12 | 11 13 | 26 14 | 2 12 | 4 44 |
| S 22 | 12 4 | 21 49 | 2 26 | 2 4 | 2 31 | 5 40 | 0 3 | 0 32 | 1 59 | 21 2 | 0 53 | 22 56 | 0 14 | 23 21 | 0 6 | 21 37 | 1 25 | 12 31 | 9 40 | 11 12 | 11 12 | 26 13 | 2 13 | 4 43 |
| S 23 | 12 25 | 25 14 | 3 24 | 2 46 | 2 27 | 5 23 | 0s 3 | 0 28 | 1 56 | 21 1 | 0 53 | 22 56 | 0 14 | 23 21 | 0 6 | 21 37 | 1 25 | 12 31 | 9 40 | 11 12 | 11 11 | 26 12 | 2 14 | 4 42 |
| M24 | 12 44 | 27 23 | 4 11 | 3 29 | 2 23 | 5 6 | 0 9 | 0 24 | 1 54 | 21 0 | 0 53 | 22 56 | 0 14 | 23 20 | 0 6 | 21 37 | 1 25 | 12 31 | 9 40 | 11 12 | 11 10 | 26 10 | 2 16 | 4 42 |
| T 25 | 13 4 | 28 12 | 4 46 | 4 13 | 2 19 | 4 49 | 0 15 | 0 21 | 1 51 | 20 59 | 0 53 | 22 55 | 0 13 | 23 20 | 0 6 | 21 37 | 1 25 | 12 32 | 9 40 | 11 12 | 11 9 | 26 9 | 2 17 | 4 41 |
| W26 | 13 24 | 27 40 | 5 8 | 4 58 | 2 14 | 4 31 | 0 21 | 0 17 | 1 48 | 20 59 | 0 53 | 22 55 | 0 13 | 23 20 | 0 6 | 21 37 | 1 25 | 12 32 | 9 40 | 11 12 | 11 8 | 26 8 | 2 19 | 4 40 |
| T 27 | 13 43 | 25 52 | 5 16 | 5 43 | 2 8 | 4 13 | 0 26 | 0 14 | 1 46 | 20 58 | 0 53 | 22 55 | 0 13 | 23 20 | 0 6 | 21 37 | 1 25 | 12 32 | 9 40 | 11 11 | 11 7 | 26 7 | 2 20 | 4 39 |
| F 28 | 14 2 | 22 56 | 5 11 | 6 30 | 2 2 | 3 55 | 0 32 | 0 12 | 1 43 | 20 57 | 0 53 | 22 55 | 0 13 | 23 20 | 0 6 | 21 37 | 1 25 | 12 32 | 9 39 | 11 11 | 11 5 | 26 6 | 2 21 | 4 39 |
| S 29 | 14 21 | 19 2 | 4 53 | 7 17 | 1 56 | 3 36 | 0 37 | 0 9 | 1 40 | 20 56 | 0 53 | 22 54 | 0 13 | 23 20 | 0 6 | 21 37 | 1 25 | 12 33 | 9 39 | 11 11 | 11 4 | 26 4 | 2 22 | 4 38 |
| S 30 | 14n40 | 14n19 | 4n22 | 8n 4 | 1s49 | 3s17 | 0s42 | 0s 7 | 1n38 | 20s55 | 0n53 | 22n54 | 0s13 | 23s20 | 0s 6 | 21s36 | 1n25 | 12n33 | 9s39 | 11n12 | 11n 3 | 26n 3 | 2n24 | 4s37 |

Julian Day Number = 2324165.5, Delta T = 42.44 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'21, Lahiri = 18°59'21Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## MAY 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 35 3 | 10♉23'15 | 15♍48 | 27♈ 5 | 24♓21 | 3°R53 | 8°R33 | 9♋59 | 21°R42 | 18°R54 | 10♊51 | 29♈10 | 28♈42 | 26♋ 2 | 13°R 3 | M 1 |
| T 2 | 14 39 0 | 11°21'17 | 28°26 | 29° 2 | 25°22 | 3♎43 | 8♐27 | 10° 5 | 21♐41 | 18♐53 | 10°52 | 29°11 | 28°39 | 26° 9 | 13♍ 2 | T 2 |
| W 3 | 14 42 56 | 12°19'18 | 11♎22 | 0♉59 | 26°22 | 3°34 | 8°21 | 10°10 | 21°39 | 18°52 | 10°53 | 29°12 | 28°36 | 26°15 | 13° 1 | W 3 |
| T 4 | 14 46 53 | 13°17'16 | 24°40 | 2°59 | 27°23 | 3°26 | 8°15 | 10°15 | 21°37 | 18°51 | 10°55 | 29°R13 | 28°33 | 26°22 | 13° 0 | T 4 |
| F 5 | 14 50 50 | 14°15'14 | 8♏19 | 5° 0 | 28°25 | 3°19 | 8° 9 | 10°21 | 21°36 | 18°50 | 10°56 | 29°13 | 28°29 | 26°29 | 13° 0 | F 5 |
| S 6 | 14 54 46 | 15°13'09 | 22°16 | 7° 3 | 29°26 | 3°12 | 8° 2 | 10°26 | 21°34 | 18°48 | 10°57 | 29°12 | 28°26 | 26°36 | 12°59 | S 6 |
| S 7 | 14 58 43 | 16°11'03 | 6♐30 | 9° 8 | 0♈28 | 3° 7 | 7°56 | 10°32 | 21°32 | 18°47 | 10°58 | 29°10 | 28°23 | 26°42 | 12°58 | S 7 |
| M 8 | 15 2 39 | 17° 8'56 | 20°54 | 11°14 | 1°30 | 3° 2 | 7°49 | 10°37 | 21°30 | 18°46 | 11° 0 | 29° 8 | 28°20 | 26°49 | 12°58 | M 8 |
| T 9 | 15 6 36 | 18° 6'47 | 5♑23 | 13°21 | 2°33 | 2°57 | 7°42 | 10°43 | 21°28 | 18°44 | 11° 1 | 29° 5 | 28°17 | 26°56 | 12°58 | T 9 |
| W10 | 15 10 32 | 19° 4'37 | 19°52 | 15°30 | 3°36 | 2°54 | 7°36 | 10°49 | 21°26 | 18°43 | 11° 2 | 29° 3 | 28°14 | 27° 2 | 12°58 | W10 |
| T 11 | 15 14 29 | 20° 2'26 | 4♒16 | 17°39 | 4°38 | 2°52 | 7°29 | 10°55 | 21°24 | 18°42 | 11° 4 | 29° 2 | 28°10 | 27° 9 | 12°D58 | T 11 |
| F 12 | 15 18 25 | 21° 0'14 | 18°32 | 19°49 | 5°42 | 2°50 | 7°22 | 11° 1 | 21°22 | 18°40 | 11° 5 | 29°D 1 | 28° 7 | 27°16 | 12°58 | F 12 |
| S 13 | 15 22 22 | 21°58'01 | 2♓36 | 22° 0 | 6°45 | 2°49 | 7°15 | 11° 6 | 21°20 | 18°39 | 11° 6 | 29° 1 | 28° 4 | 27°23 | 12°58 | S 13 |
| S 14 | 15 26 19 | 22°55'46 | 16°27 | 24°12 | 7°49 | 2°D49 | 7° 8 | 11°12 | 21°18 | 18°38 | 11° 8 | 29° 2 | 28° 1 | 27°29 | 12°58 | S 14 |
| M15 | 15 30 15 | 23°53'30 | 0♈ 5 | 26°23 | 8°53 | 2°49 | 7° 0 | 11°19 | 21°16 | 18°36 | 11° 9 | 29° 4 | 27°58 | 27°36 | 12°58 | M15 |
| T 16 | 15 34 12 | 24°51'13 | 13°30 | 28°34 | 9°57 | 2°50 | 6°53 | 11°25 | 21°14 | 18°35 | 11°10 | 29° 5 | 27°55 | 27°43 | 12°59 | T 16 |
| W17 | 15 38 8 | 25°48'55 | 26°43 | 0♊45 | 11° 1 | 2°52 | 6°46 | 11°31 | 21°12 | 18°33 | 11°12 | 29°R 6 | 27°51 | 27°50 | 13° 0 | W17 |
| T 18 | 15 42 5 | 26°46'36 | 9♉42 | 2°55 | 12° 6 | 2°55 | 6°38 | 11°37 | 21°10 | 18°32 | 11°13 | 29° 6 | 27°48 | 27°56 | 13° 0 | T 18 |
| F 19 | 15 46 1 | 27°44'16 | 22°29 | 5° 4 | 13°10 | 2°59 | 6°31 | 11°44 | 21° 8 | 18°30 | 11°14 | 29° 4 | 27°45 | 28° 3 | 13° 1 | F 19 |
| S 20 | 15 49 58 | 28°41'54 | 5♊ 4 | 7°12 | 14°15 | 3° 3 | 6°23 | 11°50 | 21° 6 | 18°29 | 11°16 | 29° 0 | 27°42 | 28°10 | 13° 2 | S 20 |
| S 21 | 15 53 54 | 29°39'32 | 17°27 | 9°19 | 15°20 | 3° 8 | 6°16 | 11°56 | 21° 3 | 18°27 | 11°17 | 28°56 | 27°39 | 28°16 | 13° 3 | S 21 |
| M22 | 15 57 51 | 0♊37'08 | 29°40 | 11°23 | 16°25 | 3°14 | 6° 8 | 12° 3 | 21° 1 | 18°26 | 11°18 | 28°51 | 27°35 | 28°23 | 13° 4 | M22 |
| T 23 | 16 1 48 | 1°34'43 | 11♋43 | 13°26 | 17°31 | 3°20 | 6° 1 | 12° 9 | 20°59 | 18°24 | 11°20 | 28°45 | 27°32 | 28°30 | 13° 6 | T 23 |
| W24 | 16 5 44 | 2°32'16 | 23°40 | 15°26 | 18°36 | 3°27 | 5°53 | 12°16 | 20°57 | 18°23 | 11°21 | 28°40 | 27°29 | 28°37 | 13° 7 | W24 |
| T 25 | 16 9 41 | 3°29'48 | 5♌33 | 17°25 | 19°42 | 3°35 | 5°46 | 12°23 | 20°54 | 18°21 | 11°22 | 28°35 | 27°26 | 28°43 | 13° 9 | T 25 |
| F 26 | 16 13 37 | 4°27'19 | 17°25 | 19°21 | 20°48 | 3°44 | 5°38 | 12°29 | 20°52 | 18°20 | 11°24 | 28°32 | 27°23 | 28°50 | 13°10 | F 26 |
| S 27 | 16 17 34 | 5°24'48 | 29°21 | 21°14 | 21°54 | 3°53 | 5°30 | 12°36 | 20°50 | 18°18 | 11°25 | 28°31 | 27°20 | 28°57 | 13°12 | S 27 |
| S 28 | 16 21 30 | 6°22'17 | 11♍26 | 23° 5 | 23° 0 | 4° 3 | 5°23 | 12°43 | 20°47 | 18°17 | 11°27 | 28°D31 | 27°16 | 29° 4 | 13°14 | S 28 |
| M29 | 16 25 27 | 7°19'43 | 23°45 | 24°54 | 24° 6 | 4°13 | 5°15 | 12°50 | 20°45 | 18°15 | 11°28 | 28°32 | 27°13 | 29°10 | 13°16 | M29 |
| T 30 | 16 29 23 | 8°17'09 | 6♎21 | 26°39 | 25°13 | 4°24 | 5° 7 | 12°56 | 20°43 | 18°13 | 11°29 | 28°33 | 27°10 | 29°17 | 13°18 | T 30 |
| W31 | 16 33 20 | 9♊14'33 | 19♎20 | 28♊23 | 26♈19 | 4♎36 | 5♐ 0 | 13♋ 3 | 20♐40 | 18♐12 | 11♊31 | 28♈34 | 27♈ 7 | 29♋24 | 13♍20 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 14n58 | 8n57 | 3n38 | 8n53 | 1s42 | 2s58 | 0s47 | 0s 6 | 1n35 | 20s54 | 0n53 | 22n54 | 0s13 | 23s20 | 0s 6 | 21s36 | 1n25 | 12n33 | 9s39 | 11n12 | 11n 2 | 26n 2 | 2n25 | 4s36 |
| T 2 | 15 16 | 3 6 | 2 42 | 9 41 | 1 34 | 2 39 | 0 52 | 0 4 | 1 32 | 20 53 | 0 53 | 22 54 | 0 13 | 23 20 | 0 6 | 21 36 | 1 25 | 12 34 | 9 39 | 11 12 | 11 1 | 26 0 | 2 26 | 4 36 |
| W 3 | 15 34 | 3s 1 | 1 37 | 10 30 | 1 25 | 2 19 | 0 57 | 0 3 | 1 29 | 20 53 | 0 53 | 22 53 | 0 13 | 23 20 | 0 6 | 21 36 | 1 25 | 12 34 | 9 39 | 11 13 | 11 0 | 25 59 | 2 27 | 4 35 |
| T 4 | 15 52 | 9 11 | 0 25 | 11 20 | 1 17 | 1 59 | 1 1 | 0 3 | 1 27 | 20 52 | 0 53 | 22 53 | 0 12 | 23 20 | 0 6 | 21 36 | 1 25 | 12 34 | 9 39 | 11 13 | 10 59 | 25 58 | 2 28 | 4 34 |
| F 5 | 16 9 | 15 6 | 0s50 | 12 9 | 1 8 | 1 38 | 1 6 | 0 2 | 1 24 | 20 51 | 0 53 | 22 53 | 0 12 | 23 20 | 0 6 | 21 36 | 1 25 | 12 35 | 9 38 | 11 13 | 10 58 | 25 57 | 2 29 | 4 33 |
| S 6 | 16 26 | 20 22 | 2 4 | 12 59 | 0 58 | 1 18 | 1 10 | 0 2 | 1 21 | 20 50 | 0 53 | 22 52 | 0 12 | 23 19 | 0 6 | 21 36 | 1 25 | 12 35 | 9 38 | 11 13 | 10 56 | 25 55 | 2 30 | 4 33 |
| S 7 | 16 43 | 24 35 | 3 11 | 13 48 | 0 49 | 0 57 | 1 14 | 0 2 | 1 19 | 20 49 | 0 53 | 22 52 | 0 12 | 23 19 | 0 6 | 21 36 | 1 25 | 12 35 | 9 38 | 11 12 | 10 55 | 25 54 | 2 31 | 4 32 |
| M 8 | 16 59 | 27 17 | 4 8 | 14 37 | 0 39 | 0 36 | 1 18 | 0 2 | 1 16 | 20 48 | 0 53 | 22 52 | 0 12 | 23 19 | 0 6 | 21 35 | 1 25 | 12 35 | 9 38 | 11 11 | 10 54 | 25 53 | 2 32 | 4 31 |
| T 9 | 17 16 | 28 11 | 4 48 | 15 26 | 0 28 | 0 14 | 1 22 | 0 3 | 1 14 | 20 47 | 0 52 | 22 51 | 0 12 | 23 19 | 0 6 | 21 35 | 1 26 | 12 36 | 9 38 | 11 10 | 10 53 | 25 51 | 2 33 | 4 30 |
| W10 | 17 32 | 27 8 | 5 11 | 16 14 | 0 18 | 0n 7 | 1 26 | 0 4 | 1 11 | 20 45 | 0 52 | 22 51 | 0 12 | 23 19 | 0 6 | 21 35 | 1 26 | 12 36 | 9 38 | 11 10 | 10 52 | 25 50 | 2 33 | 4 29 |
| T 11 | 17 47 | 24 18 | 5 13 | 17 1 | 0 7 | 0 29 | 1 29 | 0 6 | 1 8 | 20 44 | 0 52 | 22 51 | 0 12 | 23 19 | 0 6 | 21 35 | 1 26 | 12 36 | 9 38 | 11 9 | 10 51 | 25 49 | 2 34 | 4 29 |
| F 12 | 18 3 | 20 0 | 4 57 | 17 47 | 0n 3 | 0 51 | 1 33 | 0 7 | 1 6 | 20 43 | 0 52 | 22 50 | 0 12 | 23 19 | 0 6 | 21 35 | 1 26 | 12 37 | 9 38 | 11 9 | 10 50 | 25 47 | 2 35 | 4 28 |
| S 13 | 18 18 | 14 39 | 4 22 | 18 32 | 0 14 | 1 13 | 1 36 | 0 9 | 1 3 | 20 42 | 0 52 | 22 50 | 0 11 | 23 19 | 0 6 | 21 35 | 1 26 | 12 37 | 9 38 | 11 9 | 10 48 | 25 46 | 2 36 | 4 27 |
| S 14 | 18 32 | 8 38 | 3 33 | 19 15 | 0 24 | 1 35 | 1 39 | 0 11 | 1 1 | 20 41 | 0 52 | 22 49 | 0 11 | 23 19 | 0 6 | 21 35 | 1 26 | 12 37 | 9 37 | 11 9 | 10 47 | 25 45 | 2 36 | 4 26 |
| M15 | 18 47 | 2 18 | 2 33 | 19 57 | 0 34 | 1 58 | 1 42 | 0 14 | 0 58 | 20 40 | 0 52 | 22 49 | 0 11 | 23 18 | 0 7 | 21 35 | 1 26 | 12 37 | 9 37 | 11 10 | 10 46 | 25 43 | 2 37 | 4 26 |
| T 16 | 19 1 | 4n 3 | 1 25 | 20 36 | 0 44 | 2 20 | 1 45 | 0 17 | 0 56 | 20 39 | 0 52 | 22 49 | 0 11 | 23 18 | 0 7 | 21 34 | 1 26 | 12 38 | 9 37 | 11 10 | 10 45 | 25 42 | 2 37 | 4 25 |
| W17 | 19 15 | 10 7 | 0 13 | 21 14 | 0 54 | 2 43 | 1 48 | 0 20 | 0 54 | 20 38 | 0 52 | 22 48 | 0 11 | 23 18 | 0 7 | 21 34 | 1 26 | 12 38 | 9 37 | 11 11 | 10 44 | 25 41 | 2 38 | 4 24 |
| T 18 | 19 28 | 15 40 | 0n58 | 21 49 | 1 4 | 3 6 | 1 50 | 0 23 | 0 51 | 20 37 | 0 52 | 22 48 | 0 11 | 23 18 | 0 7 | 21 34 | 1 26 | 12 38 | 9 37 | 11 10 | 10 43 | 25 39 | 2 38 | 4 23 |
| F 19 | 19 42 | 20 26 | 2 5 | 22 23 | 1 13 | 3 29 | 1 53 | 0 26 | 0 49 | 20 35 | 0 52 | 22 47 | 0 11 | 23 18 | 0 7 | 21 34 | 1 26 | 12 39 | 9 37 | 11 10 | 10 42 | 25 38 | 2 39 | 4 22 |
| S 20 | 19 55 | 24 12 | 3 4 | 22 53 | 1 21 | 3 51 | 1 55 | 0 30 | 0 46 | 20 34 | 0 52 | 22 47 | 0 11 | 23 18 | 0 7 | 21 34 | 1 26 | 12 39 | 9 37 | 11 9 | 10 40 | 25 36 | 2 39 | 4 22 |
| S 21 | 20 7 | 26 46 | 3 54 | 23 21 | 1 29 | 4 15 | 1 58 | 0 34 | 0 44 | 20 33 | 0 52 | 22 46 | 0 11 | 23 18 | 0 7 | 21 34 | 1 26 | 12 39 | 9 37 | 11 7 | 10 39 | 25 35 | 2 39 | 4 21 |
| M22 | 20 19 | 28 1 | 4 32 | 23 46 | 1 36 | 4 38 | 2 0 | 0 39 | 0 42 | 20 32 | 0 52 | 22 46 | 0 11 | 23 17 | 0 7 | 21 34 | 1 26 | 12 39 | 9 37 | 11 5 | 10 38 | 25 34 | 2 40 | 4 20 |
| T 23 | 20 31 | 27 54 | 4 57 | 24 9 | 1 43 | 5 1 | 2 2 | 0 43 | 0 40 | 20 31 | 0 51 | 22 45 | 0 10 | 23 17 | 0 7 | 21 33 | 1 26 | 12 40 | 9 37 | 11 3 | 10 37 | 25 32 | 2 40 | 4 19 |
| W24 | 20 43 | 26 30 | 5 10 | 24 29 | 1 48 | 5 24 | 2 4 | 0 48 | 0 37 | 20 29 | 0 51 | 22 45 | 0 10 | 23 17 | 0 7 | 21 33 | 1 26 | 12 40 | 9 37 | 11 1 | 10 36 | 25 31 | 2 40 | 4 18 |
| T 25 | 20 54 | 23 54 | 5 9 | 24 46 | 1 54 | 5 47 | 2 5 | 0 53 | 0 35 | 20 28 | 0 51 | 22 44 | 0 10 | 23 17 | 0 7 | 21 33 | 1 26 | 12 40 | 9 36 | 11 0 | 10 35 | 25 29 | 2 40 | 4 18 |
| F 26 | 21 4 | 20 19 | 4 54 | 25 1 | 1 58 | 6 10 | 2 7 | 0 59 | 0 33 | 20 27 | 0 51 | 22 44 | 0 10 | 23 17 | 0 7 | 21 33 | 1 26 | 12 40 | 9 36 | 10 59 | 10 34 | 25 28 | 2 40 | 4 17 |
| S 27 | 21 15 | 15 53 | 4 27 | 25 13 | 2 2 | 6 34 | 2 9 | 1 4 | 0 31 | 20 26 | 0 51 | 22 43 | 0 10 | 23 17 | 0 7 | 21 33 | 1 26 | 12 41 | 9 36 | 10 58 | 10 33 | 25 26 | 2 40 | 4 16 |
| S 28 | 21 25 | 10 48 | 3 48 | 25 23 | 2 5 | 6 57 | 2 10 | 1 10 | 0 29 | 20 24 | 0 51 | 22 43 | 0 10 | 23 17 | 0 7 | 21 33 | 1 26 | 12 41 | 9 36 | 10 58 | 10 31 | 25 25 | 2 40 | 4 15 |
| M29 | 21 35 | 5 12 | 2 58 | 25 30 | 2 7 | 7 20 | 2 11 | 1 16 | 0 27 | 20 23 | 0 51 | 22 42 | 0 10 | 23 16 | 0 7 | 21 33 | 1 26 | 12 41 | 9 36 | 10 58 | 10 30 | 25 23 | 2 40 | 4 15 |
| T 30 | 21 44 | 0s44 | 1 58 | 25 35 | 2 8 | 7 43 | 2 12 | 1 22 | 0 25 | 20 22 | 0 51 | 22 42 | 0 10 | 23 16 | 0 7 | 21 32 | 1 26 | 12 41 | 9 36 | 10 59 | 10 29 | 25 22 | 2 40 | 4 14 |
| W31 | 21n53 | 6s48 | 0n50 | 25n37 | 2n 9 | 8n 6 | 2s13 | 1s29 | 0n23 | 20s21 | 0n51 | 22n41 | 0s10 | 23s16 | 0s 7 | 21s32 | 1n26 | 12n42 | 9s36 | 10n59 | 10n28 | 25n21 | 2n40 | 4s13 |

Julian Day Number = 2324195.5, Delta T = 42.39 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'25, Lahiri = 18°59'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## JUNE 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 37 17 | 10♊11'57 | 2♏43 | 0♋ 3 | 27♈26 | 4♎48 | 4°R52 | 13♋10 | 20°R38 | 18°R10 | 11♊32 | 28°R35 | 27♈ 4 | 29♋30 | 13♍23 | T 1 |
| F 2 | 16 41 13 | 11° 9'19 | 16°32 | 1°41 | 28°33 | 5° 1 | 4♐45 | 13°17 | 20♐35 | 18♐ 9 | 11°34 | 28♈33 | 27° 1 | 29°37 | 13°25 | F 2 |
| S 3 | 16 45 10 | 12° 6'40 | 0♐47 | 3°16 | 29°40 | 5°14 | 4°37 | 13°24 | 20°33 | 18° 7 | 11°35 | 28°30 | 26°57 | 29°44 | 13°28 | S 3 |
| S 4 | 16 49 6 | 13° 4'01 | 15°22 | 4°48 | 0♑47 | 5°28 | 4°30 | 13°31 | 20°31 | 18° 5 | 11°36 | 28°25 | 26°54 | 29°51 | 13°30 | S 4 |
| M 5 | 16 53 3 | 14° 1'20 | 0♑12 | 6°17 | 1°54 | 5°43 | 4°22 | 13°39 | 20°28 | 18° 4 | 11°38 | 28°19 | 26°51 | 29°57 | 13°33 | M 5 |
| T 6 | 16 56 59 | 14°58'39 | 15° 7 | 7°43 | 3° 2 | 5°58 | 4°15 | 13°46 | 20°26 | 18° 2 | 11°39 | 28°12 | 26°48 | 0♌ 4 | 13°36 | T 6 |
| W 7 | 17 0 56 | 15°55'58 | 0♒ 1 | 9° 7 | 4° 9 | 6°13 | 4° 7 | 13°53 | 20°23 | 18° 1 | 11°41 | 28° 5 | 26°45 | 0°11 | 13°39 | W 7 |
| T 8 | 17 4 53 | 16°53'16 | 14°43 | 10°28 | 5°17 | 6°30 | 4° 0 | 14° 0 | 20°21 | 17°59 | 11°42 | 28° 0 | 26°41 | 0°17 | 13°42 | T 8 |
| F 9 | 17 8 49 | 17°50'33 | 29°10 | 11°46 | 6°24 | 6°46 | 3°53 | 14° 7 | 20°19 | 17°57 | 11°43 | 27°57 | 26°38 | 0°24 | 13°45 | F 9 |
| S 10 | 17 12 46 | 18°47'50 | 13♓16 | 13° 0 | 7°32 | 7° 3 | 3°45 | 14°15 | 20°16 | 17°56 | 11°45 | 27°D55 | 26°35 | 0°31 | 13°48 | S 10 |
| S 11 | 17 16 42 | 19°45'07 | 27° 3 | 14°12 | 8°40 | 7°21 | 3°38 | 14°22 | 20°14 | 17°54 | 11°46 | 27°55 | 26°32 | 0°38 | 13°52 | S 11 |
| M12 | 17 20 39 | 20°42'24 | 10♈29 | 15°21 | 9°48 | 7°39 | 3°31 | 14°29 | 20°11 | 17°52 | 11°47 | 27°56 | 26°29 | 0°44 | 13°55 | M12 |
| T 13 | 17 24 35 | 21°39'40 | 23°38 | 16°26 | 10°56 | 7°58 | 3°24 | 14°37 | 20° 9 | 17°51 | 11°49 | 27°R57 | 26°26 | 0°51 | 13°59 | T 13 |
| W14 | 17 28 32 | 22°36'56 | 6♉31 | 17°29 | 12° 5 | 8°17 | 3°17 | 14°44 | 20° 6 | 17°49 | 11°50 | 27°57 | 26°22 | 0°58 | 14° 2 | W14 |
| T 15 | 17 32 28 | 23°34'11 | 19°12 | 18°28 | 13°13 | 8°36 | 3°11 | 14°52 | 20° 4 | 17°48 | 11°52 | 27°55 | 26°19 | 1° 5 | 14° 6 | T 15 |
| F 16 | 17 36 25 | 24°31'27 | 1♊41 | 19°23 | 14°21 | 8°56 | 3° 4 | 14°59 | 20° 1 | 17°46 | 11°53 | 27°50 | 26°16 | 1°11 | 14°10 | F 16 |
| S 17 | 17 40 22 | 25°28'42 | 14° 0 | 20°15 | 15°30 | 9°17 | 2°57 | 15° 7 | 19°59 | 17°44 | 11°54 | 27°43 | 26°13 | 1°18 | 14°14 | S 17 |
| S 18 | 17 44 18 | 26°25'57 | 26°11 | 21° 4 | 16°39 | 9°38 | 2°51 | 15°14 | 19°56 | 17°43 | 11°56 | 27°34 | 26°10 | 1°25 | 14°18 | S 18 |
| M19 | 17 48 15 | 27°23'11 | 8♋15 | 21°49 | 17°47 | 9°59 | 2°44 | 15°22 | 19°54 | 17°41 | 11°57 | 27°23 | 26° 7 | 1°31 | 14°22 | M19 |
| T 20 | 17 52 11 | 28°20'26 | 20°13 | 22°29 | 18°56 | 10°21 | 2°38 | 15°29 | 19°52 | 17°40 | 11°58 | 27°12 | 26° 3 | 1°38 | 14°27 | T 20 |
| W21 | 17 56 8 | 29°17'39 | 2♌ 7 | 23° 7 | 20° 5 | 10°43 | 2°32 | 15°37 | 19°49 | 17°38 | 12° 0 | 27° 1 | 26° 0 | 1°45 | 14°31 | W21 |
| T 22 | 18 0 4 | 0♋14'53 | 13°58 | 23°40 | 21°14 | 11° 6 | 2°26 | 15°44 | 19°47 | 17°36 | 12° 1 | 26°51 | 25°57 | 1°52 | 14°36 | T 22 |
| F 23 | 18 4 1 | 1°12'05 | 25°50 | 24° 8 | 22°23 | 11°29 | 2°20 | 15°52 | 19°44 | 17°35 | 12° 2 | 26°44 | 25°54 | 1°58 | 14°40 | F 23 |
| S 24 | 18 7 57 | 2° 9'18 | 7♍45 | 24°33 | 23°32 | 11°52 | 2°14 | 16° 0 | 19°42 | 17°33 | 12° 4 | 26°39 | 25°51 | 2° 5 | 14°45 | S 24 |
| S 25 | 18 11 54 | 3° 6'30 | 19°48 | 24°53 | 24°42 | 12°16 | 2° 9 | 16° 7 | 19°40 | 17°32 | 12° 5 | 26°36 | 25°47 | 2°12 | 14°50 | S 25 |
| M26 | 18 15 51 | 4° 3'41 | 2♎ 3 | 25° 9 | 25°51 | 12°40 | 2° 3 | 16°15 | 19°37 | 17°30 | 12° 6 | 26°D35 | 25°44 | 2°19 | 14°54 | M26 |
| T 27 | 18 19 47 | 5° 0'52 | 14°36 | 25°20 | 27° 0 | 13° 4 | 1°58 | 16°23 | 19°35 | 17°29 | 12° 8 | 26°35 | 25°41 | 2°25 | 14°59 | T 27 |
| W28 | 18 23 44 | 5°58'03 | 27°31 | 25°26 | 28°10 | 13°29 | 1°52 | 16°30 | 19°33 | 17°27 | 12° 9 | 26°R35 | 25°38 | 2°32 | 15° 4 | W28 |
| T 29 | 18 27 40 | 6°55'14 | 10♏52 | 25°R28 | 29°19 | 13°54 | 1°47 | 16°38 | 19°30 | 17°26 | 12°10 | 26°35 | 25°35 | 2°39 | 15° 9 | T 29 |
| F 30 | 18 31 37 | 7♋52'24 | 24♏42 | 25♋25 | 0♊29 | 14♎20 | 1♐42 | 16♋46 | 19♐28 | 17♐24 | 12♊11 | 26♈32 | 25♈32 | 2♌45 | 15♍15 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 1 | 12s47 | 0s22 | 25n38 | 2n 9 | 8n29 | 2s14 | 1s36 | 0n21 | 20s19 | 0n50 | 22n41 | 0s10 | 23s16 | 0s 7 | 21s32 | 1n26 | 12n42 | 9s36 | 10n59 | 10n27 | 25n19 | 2n40 | 4s12 |
| F 2 | 22 10 | 18 21 | 1 36 | 25 36 | 2 8 | 8 52 | 2 15 | 1 43 | 0 19 | 20 18 | 0 50 | 22 40 | 0 9 | 23 16 | 0 7 | 21 32 | 1 26 | 12 42 | 9 36 | 10 59 | 10 26 | 25 18 | 2 40 | 4 12 |
| S 3 | 22 17 | 23 3 | 2 45 | 25 33 | 2 6 | 9 15 | 2 16 | 1 50 | 0 17 | 20 17 | 0 50 | 22 39 | 0 9 | 23 16 | 0 7 | 21 32 | 1 26 | 12 42 | 9 36 | 10 58 | 10 24 | 25 16 | 2 39 | 4 11 |
| S 4 | 22 25 | 26 25 | 3 45 | 25 27 | 2 3 | 9 38 | 2 17 | 1 57 | 0 15 | 20 16 | 0 50 | 22 39 | 0 9 | 23 16 | 0 7 | 21 32 | 1 26 | 12 42 | 9 36 | 10 56 | 10 23 | 25 15 | 2 39 | 4 10 |
| M 5 | 22 32 | 28 1 | 4 31 | 25 20 | 2 0 | 10 1 | 2 17 | 2 5 | 0 13 | 20 14 | 0 50 | 22 38 | 0 9 | 23 15 | 0 7 | 21 32 | 1 26 | 12 43 | 9 36 | 10 54 | 10 22 | 25 13 | 2 39 | 4 9 |
| T 6 | 22 38 | 27 35 | 4 59 | 25 12 | 1 56 | 10 24 | 2 17 | 2 12 | 0 11 | 20 13 | 0 50 | 22 37 | 0 9 | 23 15 | 0 7 | 21 31 | 1 26 | 12 43 | 9 36 | 10 51 | 10 21 | 25 11 | 2 38 | 4 8 |
| W 7 | 22 45 | 25 11 | 5 7 | 25 2 | 1 52 | 10 46 | 2 18 | 2 20 | 0 9 | 20 12 | 0 50 | 22 37 | 0 9 | 23 15 | 0 7 | 21 31 | 1 26 | 12 43 | 9 36 | 10 49 | 10 20 | 25 10 | 2 38 | 4 8 |
| T 8 | 22 50 | 21 8 | 4 54 | 24 50 | 1 46 | 11 9 | 2 18 | 2 28 | 0 7 | 20 11 | 0 49 | 22 36 | 0 9 | 23 15 | 0 7 | 21 31 | 1 26 | 12 43 | 9 36 | 10 47 | 10 19 | 25 8 | 2 37 | 4 7 |
| F 9 | 22 56 | 15 54 | 4 23 | 24 38 | 1 40 | 11 31 | 2 18 | 2 36 | 0 6 | 20 10 | 0 49 | 22 35 | 0 9 | 23 15 | 0 7 | 21 31 | 1 26 | 12 43 | 9 36 | 10 46 | 10 18 | 25 7 | 2 37 | 4 6 |
| S 10 | 23 1 | 9 55 | 3 36 | 24 24 | 1 33 | 11 53 | 2 18 | 2 45 | 0 4 | 20 8 | 0 49 | 22 35 | 0 9 | 23 15 | 0 7 | 21 31 | 1 26 | 12 44 | 9 36 | 10 45 | 10 16 | 25 5 | 2 36 | 4 5 |
| S 11 | 23 5 | 3 36 | 2 38 | 24 9 | 1 26 | 12 15 | 2 18 | 2 53 | 0 2 | 20 7 | 0 49 | 22 34 | 0 9 | 23 14 | 0 7 | 21 31 | 1 26 | 12 44 | 9 36 | 10 45 | 10 15 | 25 4 | 2 36 | 4 5 |
| M12 | 23 10 | 2n45 | 1 32 | 23 53 | 1 18 | 12 36 | 2 17 | 3 2 | 0 1 | 20 6 | 0 49 | 22 33 | 0 8 | 23 14 | 0 7 | 21 31 | 1 26 | 12 44 | 9 36 | 10 46 | 10 14 | 25 2 | 2 35 | 4 4 |
| T 13 | 23 13 | 8 50 | 0 23 | 23 37 | 1 9 | 12 58 | 2 17 | 3 11 | 0s 1 | 20 5 | 0 49 | 22 33 | 0 8 | 23 14 | 0 7 | 21 30 | 1 26 | 12 44 | 9 36 | 10 46 | 10 13 | 25 1 | 2 34 | 4 3 |
| W14 | 23 17 | 14 26 | 0n46 | 23 19 | 0 59 | 13 19 | 2 17 | 3 20 | 0 3 | 20 4 | 0 48 | 22 32 | 0 8 | 23 14 | 0 7 | 21 30 | 1 26 | 12 44 | 9 36 | 10 46 | 10 12 | 24 59 | 2 34 | 4 3 |
| T 15 | 23 20 | 19 20 | 1 51 | 23 1 | 0 49 | 13 40 | 2 16 | 3 29 | 0 4 | 20 3 | 0 48 | 22 31 | 0 8 | 23 14 | 0 7 | 21 30 | 1 26 | 12 44 | 9 36 | 10 45 | 10 11 | 24 57 | 2 33 | 4 2 |
| F 16 | 23 22 | 23 19 | 2 50 | 22 43 | 0 39 | 14 1 | 2 15 | 3 39 | 0 6 | 20 2 | 0 48 | 22 31 | 0 8 | 23 13 | 0 7 | 21 30 | 1 26 | 12 45 | 9 36 | 10 43 | 10 10 | 24 56 | 2 32 | 4 1 |
| S 17 | 23 25 | 26 10 | 3 40 | 22 24 | 0 27 | 14 22 | 2 15 | 3 48 | 0 8 | 20 0 | 0 48 | 22 30 | 0 8 | 23 13 | 0 7 | 21 30 | 1 26 | 12 45 | 9 36 | 10 41 | 10 8 | 24 54 | 2 31 | 4 0 |
| S 18 | 23 26 | 27 45 | 4 19 | 22 5 | 0 15 | 14 42 | 2 14 | 3 58 | 0 9 | 19 59 | 0 48 | 22 29 | 0 8 | 23 13 | 0 7 | 21 30 | 1 26 | 12 45 | 9 36 | 10 38 | 10 7 | 24 53 | 2 30 | 4 0 |
| M19 | 23 28 | 28 0 | 4 47 | 21 46 | 0 3 | 15 2 | 2 13 | 4 8 | 0 11 | 19 58 | 0 48 | 22 28 | 0 8 | 23 13 | 0 7 | 21 30 | 1 26 | 12 45 | 9 36 | 10 34 | 10 6 | 24 51 | 2 29 | 3 59 |
| T 20 | 23 29 | 26 55 | 5 1 | 21 26 | 0s10 | 15 22 | 2 12 | 4 18 | 0 12 | 19 57 | 0 47 | 22 27 | 0 8 | 23 13 | 0 7 | 21 30 | 1 26 | 12 45 | 9 36 | 10 30 | 10 5 | 24 49 | 2 28 | 3 58 |
| W21 | 23 29 | 24 37 | 5 2 | 21 7 | 0 24 | 15 42 | 2 11 | 4 28 | 0 14 | 19 56 | 0 47 | 22 27 | 0 8 | 23 13 | 0 7 | 21 29 | 1 26 | 12 45 | 9 36 | 10 26 | 10 4 | 24 48 | 2 27 | 3 58 |
| T 22 | 23 29 | 21 17 | 4 50 | 20 48 | 0 37 | 16 1 | 2 10 | 4 38 | 0 15 | 19 55 | 0 47 | 22 26 | 0 8 | 23 12 | 0 7 | 21 29 | 1 26 | 12 46 | 9 36 | 10 22 | 10 3 | 24 46 | 2 26 | 3 57 |
| F 23 | 23 29 | 17 5 | 4 25 | 20 29 | 0 52 | 16 20 | 2 9 | 4 48 | 0 17 | 19 54 | 0 47 | 22 25 | 0 7 | 23 12 | 0 7 | 21 29 | 1 26 | 12 46 | 9 36 | 10 20 | 10 1 | 24 44 | 2 25 | 3 56 |
| S 24 | 23 28 | 12 13 | 3 49 | 20 10 | 1 7 | 16 38 | 2 7 | 4 59 | 0 18 | 19 53 | 0 47 | 22 24 | 0 7 | 23 12 | 0 7 | 21 29 | 1 25 | 12 46 | 9 36 | 10 18 | 10 0 | 24 43 | 2 24 | 3 55 |
| S 25 | 23 27 | 6 51 | 3 2 | 19 51 | 1 22 | 16 57 | 2 6 | 5 9 | 0 20 | 19 52 | 0 46 | 22 23 | 0 7 | 23 12 | 0 7 | 21 29 | 1 25 | 12 46 | 9 36 | 10 17 | 9 59 | 24 41 | 2 23 | 3 55 |
| M26 | 23 25 | 1 7 | 2 7 | 19 34 | 1 37 | 17 14 | 2 4 | 5 20 | 0 21 | 19 51 | 0 46 | 22 23 | 0 7 | 23 12 | 0 7 | 21 29 | 1 25 | 12 46 | 9 36 | 10 16 | 9 58 | 24 40 | 2 21 | 3 54 |
| T 27 | 23 23 | 4s48 | 1 3 | 19 16 | 1 52 | 17 32 | 2 3 | 5 31 | 0 22 | 19 51 | 0 46 | 22 22 | 0 7 | 23 12 | 0 7 | 21 29 | 1 25 | 12 46 | 9 36 | 10 16 | 9 57 | 24 38 | 2 20 | 3 53 |
| W28 | 23 21 | 10 41 | 0s 5 | 19 0 | 2 8 | 17 49 | 2 1 | 5 42 | 0 24 | 19 50 | 0 46 | 22 21 | 0 7 | 23 11 | 0 7 | 21 29 | 1 25 | 12 46 | 9 36 | 10 17 | 9 56 | 24 36 | 2 19 | 3 53 |
| T 29 | 23 18 | 16 18 | 1 15 | 18 44 | 2 23 | 18 6 | 2 0 | 5 53 | 0 25 | 19 49 | 0 46 | 22 20 | 0 7 | 23 11 | 0 7 | 21 28 | 1 25 | 12 46 | 9 36 | 10 16 | 9 54 | 24 34 | 2 18 | 3 52 |
| F 30 | 23n15 | 21s18 | 2s23 | 18n30 | 2s39 | 18n22 | 1s58 | 6s 4 | 0s26 | 19s48 | 0n45 | 22n19 | 0s 7 | 23s11 | 0s 7 | 21s28 | 1n25 | 12n47 | 9s36 | 10n15 | 9n53 | 24n33 | 2n16 | 3s51 |

Julian Day Number = 2324226.5, Delta T = 42.33 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'29, Lahiri = 18°59'30Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## JULY 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 35 33 | 8♋49'34 | 9♐ 1 | 25°R18 | 1♊39 | 14♎46 | 1°R37 | 16♋54 | 19°R26 | 17°R23 | 12♊13 | 26°R27 | 25♈28 | 2♌52 | 15♍20 | S 1 |
| S 2 | 18 39 30 | 9°46'45 | 23°46 | 25♋ 6 | 2°48 | 15°12 | 1♐33 | 17° 1 | 19♐24 | 17♐21 | 12°14 | 26♈19 | 25°25 | 2°59 | 15°25 | S 2 |
| M 3 | 18 43 27 | 10°43'55 | 8♉50 | 24°49 | 3°58 | 15°38 | 1°28 | 17° 9 | 19°21 | 17°20 | 12°15 | 26°10 | 25°22 | 3° 6 | 15°31 | M 3 |
| T 4 | 18 47 23 | 11°41'05 | 24° 4 | 24°28 | 5° 8 | 16° 5 | 1°24 | 17°17 | 19°19 | 17°18 | 12°16 | 26° 0 | 25°19 | 3°12 | 15°36 | T 4 |
| W 5 | 18 51 20 | 12°38'16 | 9♒17 | 24° 4 | 6°18 | 16°32 | 1°20 | 17°25 | 19°17 | 17°17 | 12°18 | 25°50 | 25°16 | 3°19 | 15°42 | W 5 |
| T 6 | 18 55 16 | 13°35'26 | 24°18 | 23°35 | 7°28 | 17° 0 | 1°16 | 17°33 | 19°15 | 17°16 | 12°19 | 25°41 | 25°13 | 3°26 | 15°48 | T 6 |
| F 7 | 18 59 13 | 14°32'38 | 9♓ 0 | 23° 4 | 8°38 | 17°28 | 1°12 | 17°40 | 19°13 | 17°14 | 12°20 | 25°35 | 25° 9 | 3°32 | 15°53 | F 7 |
| S 8 | 19 3 9 | 15°29'49 | 23°17 | 22°29 | 9°49 | 17°56 | 1° 8 | 17°48 | 19°11 | 17°13 | 12°21 | 25°32 | 25° 6 | 3°39 | 15°59 | S 8 |
| S 9 | 19 7 6 | 16°27'01 | 7♈ 7 | 21°52 | 10°59 | 18°24 | 1° 4 | 17°56 | 19° 8 | 17°11 | 12°22 | 25°30 | 25° 3 | 3°46 | 16° 5 | S 9 |
| M10 | 19 11 2 | 17°24'14 | 20°32 | 21°13 | 12° 9 | 18°53 | 1° 1 | 18° 4 | 19° 6 | 17°10 | 12°24 | 25°30 | 25° 0 | 3°53 | 16°11 | M10 |
| T 11 | 19 14 59 | 18°21'28 | 3♉35 | 20°34 | 13°20 | 19°21 | 0°58 | 18°12 | 19° 4 | 17° 9 | 12°25 | 25°30 | 24°57 | 3°59 | 16°17 | T 11 |
| W12 | 19 18 56 | 19°18'42 | 16°19 | 19°54 | 14°30 | 19°51 | 0°55 | 18°19 | 19° 2 | 17° 7 | 12°26 | 25°29 | 24°53 | 4° 6 | 16°24 | W12 |
| T 13 | 19 22 52 | 20°15'57 | 28°47 | 19°14 | 15°41 | 20°20 | 0°52 | 18°27 | 19° 0 | 17° 6 | 12°27 | 25°26 | 24°50 | 4°13 | 16°30 | T 13 |
| F 14 | 19 26 49 | 21°13'12 | 11♊ 4 | 18°35 | 16°51 | 20°50 | 0°49 | 18°35 | 18°58 | 17° 5 | 12°28 | 25°20 | 24°47 | 4°20 | 16°36 | F 14 |
| S 15 | 19 30 45 | 22°10'29 | 23°12 | 17°58 | 18° 2 | 21°20 | 0°47 | 18°43 | 18°56 | 17° 4 | 12°29 | 25°11 | 24°44 | 4°26 | 16°42 | S 15 |
| S 16 | 19 34 42 | 23° 7'46 | 5♋13 | 17°23 | 19°13 | 21°50 | 0°44 | 18°51 | 18°55 | 17° 2 | 12°30 | 24°59 | 24°41 | 4°33 | 16°49 | S 16 |
| M17 | 19 38 38 | 24° 5'03 | 17°10 | 16°51 | 20°24 | 22°21 | 0°42 | 18°58 | 18°53 | 17° 1 | 12°32 | 24°46 | 24°38 | 4°40 | 16°55 | M17 |
| T 18 | 19 42 35 | 25° 2'21 | 29° 4 | 16°22 | 21°35 | 22°51 | 0°40 | 19° 6 | 18°51 | 17° 0 | 12°33 | 24°32 | 24°34 | 4°46 | 17° 2 | T 18 |
| W19 | 19 46 31 | 25°59'40 | 10♌55 | 15°58 | 22°46 | 23°23 | 0°38 | 19°14 | 18°49 | 16°59 | 12°34 | 24°18 | 24°31 | 4°53 | 17° 9 | W19 |
| T 20 | 19 50 28 | 26°56'59 | 22°47 | 15°39 | 23°57 | 23°54 | 0°37 | 19°22 | 18°47 | 16°58 | 12°35 | 24° 6 | 24°28 | 5° 0 | 17°16 | T 20 |
| F 21 | 19 54 25 | 27°54'19 | 4♍40 | 15°24 | 25° 8 | 24°25 | 0°35 | 19°29 | 18°46 | 16°56 | 12°36 | 23°56 | 24°25 | 5° 7 | 17°22 | F 21 |
| S 22 | 19 58 21 | 28°51'39 | 16°37 | 15°15 | 26°19 | 24°57 | 0°34 | 19°37 | 18°44 | 16°55 | 12°37 | 23°49 | 24°22 | 5°13 | 17°29 | S 22 |
| S 23 | 20 2 18 | 29°49'00 | 28°41 | 15°D11 | 27°30 | 25°29 | 0°33 | 19°45 | 18°42 | 16°54 | 12°38 | 23°45 | 24°19 | 5°20 | 17°36 | S 23 |
| M24 | 20 6 14 | 0♌46'21 | 10♎56 | 15°14 | 28°41 | 26° 1 | 0°32 | 19°53 | 18°41 | 16°53 | 12°39 | 23°43 | 24°15 | 5°27 | 17°43 | M24 |
| T 25 | 20 10 11 | 1°43'43 | 23°27 | 15°22 | 29°53 | 26°34 | 0°32 | 20° 0 | 18°39 | 16°52 | 12°40 | 23°D43 | 24°12 | 5°33 | 17°50 | T 25 |
| W26 | 20 14 7 | 2°41'05 | 6♏18 | 15°37 | 1♋ 4 | 27° 7 | 0°31 | 20° 8 | 18°38 | 16°51 | 12°41 | 23°R43 | 24° 9 | 5°40 | 17°57 | W26 |
| T 27 | 20 18 4 | 3°38'28 | 19°34 | 15°58 | 2°16 | 27°39 | 0°31 | 20°16 | 18°36 | 16°50 | 12°42 | 23°42 | 24° 6 | 5°47 | 18° 4 | T 27 |
| F 28 | 20 22 0 | 4°35'52 | 3♐18 | 16°25 | 3°27 | 28°13 | 0°D31 | 20°23 | 18°35 | 16°49 | 12°43 | 23°39 | 24° 3 | 5°54 | 18°12 | F 28 |
| S 29 | 20 25 57 | 5°33'16 | 17°31 | 16°59 | 4°39 | 28°46 | 0°31 | 20°31 | 18°33 | 16°48 | 12°44 | 23°35 | 23°59 | 6° 0 | 18°19 | S 29 |
| S 30 | 20 29 54 | 6°30'41 | 2♑11 | 17°39 | 5°50 | 29°19 | 0°31 | 20°39 | 18°32 | 16°47 | 12°44 | 23°27 | 23°56 | 6° 7 | 18°26 | S 30 |
| M31 | 20 33 50 | 7♌28'07 | 17♑14 | 18♋25 | 7♋ 2 | 29♎53 | 0♐31 | 20♋46 | 18♐30 | 16♐46 | 12♊45 | 23♈18 | 23♈53 | 6♌14 | 18♍34 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n12 | 25s13 | 3s25 | 18n16 | 2s54 | 18n38 | 1s56 | 6s15 | 0s28 | 19s47 | 0n45 | 22n18 | 0s 7 | 23s11 | 0s 7 | 21s28 | 1n25 | 12n47 | 9s36 | 10n13 | 9n52 | 24n31 | 2n15 | 3s51 |
| S 2 | 23 8 | 27 34 | 4 14 | 18 3 | 3 9 | 18 54 | 1 54 | 6 26 | 0 29 | 19 47 | 0 45 | 22 17 | 0 7 | 23 11 | 0 7 | 21 28 | 1 25 | 12 47 | 9 36 | 10 11 | 9 51 | 24 29 | 2 13 | 3 50 |
| M 3 | 23 3 | 27 58 | 4 48 | 17 52 | 3 24 | 19 9 | 1 52 | 6 38 | 0 30 | 19 46 | 0 45 | 22 17 | 0 7 | 23 11 | 0 7 | 21 28 | 1 25 | 12 47 | 9 36 | 10 7 | 9 50 | 24 28 | 2 12 | 3 49 |
| T 4 | 22 58 | 26 16 | 5 1 | 17 42 | 3 38 | 19 23 | 1 50 | 6 49 | 0 31 | 19 45 | 0 45 | 22 16 | 0 6 | 23 10 | 0 7 | 21 28 | 1 25 | 12 47 | 9 36 | 10 4 | 9 49 | 24 26 | 2 10 | 3 49 |
| W 5 | 22 53 | 22 40 | 4 53 | 17 33 | 3 51 | 19 38 | 1 48 | 7 1 | 0 33 | 19 45 | 0 44 | 22 15 | 0 6 | 23 10 | 0 7 | 21 28 | 1 25 | 12 47 | 9 36 | 10 0 | 9 48 | 24 24 | 2 9 | 3 48 |
| T 6 | 22 47 | 17 36 | 4 25 | 17 26 | 4 3 | 19 51 | 1 46 | 7 13 | 0 34 | 19 44 | 0 44 | 22 14 | 0 6 | 23 10 | 0 7 | 21 28 | 1 25 | 12 47 | 9 36 | 9 57 | 9 46 | 24 22 | 2 7 | 3 48 |
| F 7 | 22 41 | 11 36 | 3 39 | 17 20 | 4 14 | 20 5 | 1 44 | 7 24 | 0 35 | 19 43 | 0 44 | 22 13 | 0 6 | 23 10 | 0 7 | 21 28 | 1 25 | 12 47 | 9 36 | 9 55 | 9 45 | 24 21 | 2 5 | 3 47 |
| S 8 | 22 35 | 5 9 | 2 42 | 17 15 | 4 25 | 20 17 | 1 42 | 7 36 | 0 36 | 19 43 | 0 44 | 22 12 | 0 6 | 23 10 | 0 7 | 21 27 | 1 25 | 12 47 | 9 37 | 9 53 | 9 44 | 24 19 | 2 4 | 3 46 |
| S 9 | 22 28 | 1n22 | 1 36 | 17 12 | 4 33 | 20 30 | 1 39 | 7 48 | 0 37 | 19 42 | 0 43 | 22 11 | 0 6 | 23 10 | 0 7 | 21 27 | 1 25 | 12 47 | 9 37 | 9 53 | 9 43 | 24 17 | 2 2 | 3 46 |
| M10 | 22 21 | 7 38 | 0 26 | 17 11 | 4 41 | 20 42 | 1 37 | 8 0 | 0 38 | 19 42 | 0 43 | 22 10 | 0 6 | 23 9 | 0 7 | 21 27 | 1 25 | 12 47 | 9 37 | 9 53 | 9 42 | 24 15 | 2 0 | 3 45 |
| T 11 | 22 14 | 13 24 | 0n43 | 17 11 | 4 47 | 20 53 | 1 35 | 8 12 | 0 40 | 19 41 | 0 43 | 22 9 | 0 6 | 23 9 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 53 | 9 41 | 24 14 | 1 58 | 3 44 |
| W12 | 22 6 | 18 28 | 1 48 | 17 12 | 4 51 | 21 4 | 1 32 | 8 24 | 0 41 | 19 41 | 0 43 | 22 8 | 0 6 | 23 9 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 52 | 9 39 | 24 12 | 1 57 | 3 44 |
| T 13 | 21 57 | 22 38 | 2 46 | 17 15 | 4 54 | 21 14 | 1 30 | 8 36 | 0 42 | 19 41 | 0 43 | 22 7 | 0 6 | 23 9 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 51 | 9 38 | 24 10 | 1 55 | 3 43 |
| F 14 | 21 49 | 25 42 | 3 36 | 17 20 | 4 55 | 21 24 | 1 27 | 8 49 | 0 43 | 19 40 | 0 42 | 22 6 | 0 6 | 23 9 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 49 | 9 37 | 24 8 | 1 53 | 3 43 |
| S 15 | 21 39 | 27 33 | 4 15 | 17 25 | 4 54 | 21 33 | 1 24 | 9 1 | 0 44 | 19 40 | 0 42 | 22 5 | 0 5 | 23 9 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 46 | 9 36 | 24 7 | 1 51 | 3 42 |
| S 16 | 21 30 | 28 5 | 4 42 | 17 32 | 4 51 | 21 41 | 1 22 | 9 13 | 0 45 | 19 40 | 0 42 | 22 4 | 0 5 | 23 8 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 42 | 9 35 | 24 5 | 1 49 | 3 41 |
| M17 | 21 20 | 27 17 | 4 57 | 17 40 | 4 47 | 21 49 | 1 19 | 9 25 | 0 46 | 19 40 | 0 42 | 22 3 | 0 5 | 23 8 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 37 | 9 34 | 24 3 | 1 47 | 3 41 |
| T 18 | 21 10 | 25 15 | 4 58 | 17 49 | 4 42 | 21 57 | 1 17 | 9 38 | 0 47 | 19 39 | 0 41 | 22 2 | 0 5 | 23 8 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 32 | 9 32 | 24 1 | 1 45 | 3 40 |
| W19 | 20 59 | 22 7 | 4 47 | 17 59 | 4 35 | 22 4 | 1 14 | 9 50 | 0 48 | 19 39 | 0 41 | 22 1 | 0 5 | 23 8 | 0 7 | 21 27 | 1 25 | 12 48 | 9 37 | 9 26 | 9 31 | 23 59 | 1 43 | 3 40 |
| T 20 | 20 49 | 18 6 | 4 23 | 18 10 | 4 26 | 22 10 | 1 11 | 10 3 | 0 49 | 19 39 | 0 41 | 22 0 | 0 5 | 23 8 | 0 7 | 21 26 | 1 25 | 12 48 | 9 38 | 9 22 | 9 30 | 23 58 | 1 41 | 3 39 |
| F 21 | 20 37 | 13 21 | 3 48 | 18 21 | 4 16 | 22 15 | 1 8 | 10 15 | 0 50 | 19 39 | 0 41 | 21 59 | 0 5 | 23 8 | 0 7 | 21 26 | 1 25 | 12 48 | 9 38 | 9 18 | 9 29 | 23 56 | 1 39 | 3 39 |
| S 22 | 20 26 | 8 6 | 3 2 | 18 33 | 4 5 | 22 21 | 1 6 | 10 28 | 0 51 | 19 39 | 0 41 | 21 58 | 0 5 | 23 8 | 0 7 | 21 26 | 1 25 | 12 48 | 9 38 | 9 16 | 9 28 | 23 54 | 1 36 | 3 38 |
| S 23 | 20 14 | 2 29 | 2 8 | 18 45 | 3 53 | 22 25 | 1 3 | 10 41 | 0 52 | 19 39 | 0 40 | 21 57 | 0 5 | 23 7 | 0 7 | 21 26 | 1 25 | 12 48 | 9 38 | 9 14 | 9 27 | 23 52 | 1 34 | 3 37 |
| M24 | 20 1 | 3s19 | 1 7 | 18 58 | 3 40 | 22 29 | 1 0 | 10 53 | 0 53 | 19 39 | 0 40 | 21 56 | 0 5 | 23 7 | 0 7 | 21 26 | 1 25 | 12 48 | 9 38 | 9 13 | 9 25 | 23 50 | 1 32 | 3 37 |
| T 25 | 19 49 | 9 6 | 0 1 | 19 11 | 3 27 | 22 32 | 0 57 | 11 6 | 0 54 | 19 39 | 0 40 | 21 55 | 0 5 | 23 7 | 0 7 | 21 26 | 1 25 | 12 48 | 9 38 | 9 13 | 9 24 | 23 48 | 1 30 | 3 36 |
| W26 | 19 36 | 14 41 | 1s 6 | 19 23 | 3 12 | 22 35 | 0 54 | 11 19 | 0 55 | 19 39 | 0 40 | 21 54 | 0 5 | 23 7 | 0 7 | 21 26 | 1 24 | 12 48 | 9 38 | 9 13 | 9 23 | 23 46 | 1 28 | 3 36 |
| T 27 | 19 23 | 19 47 | 2 12 | 19 36 | 2 57 | 22 37 | 0 51 | 11 31 | 0 55 | 19 39 | 0 39 | 21 53 | 0 4 | 23 7 | 0 7 | 21 26 | 1 24 | 12 48 | 9 38 | 9 13 | 9 22 | 23 45 | 1 25 | 3 35 |
| F 28 | 19 9 | 24 1 | 3 13 | 19 48 | 2 42 | 22 38 | 0 48 | 11 44 | 0 56 | 19 40 | 0 39 | 21 52 | 0 4 | 23 7 | 0 7 | 21 26 | 1 24 | 12 48 | 9 38 | 9 12 | 9 21 | 23 43 | 1 23 | 3 35 |
| S 29 | 18 55 | 26 57 | 4 4 | 19 59 | 2 26 | 22 39 | 0 46 | 11 57 | 0 57 | 19 40 | 0 39 | 21 51 | 0 4 | 23 7 | 0 7 | 21 26 | 1 24 | 12 48 | 9 39 | 9 10 | 9 20 | 23 41 | 1 21 | 3 34 |
| S 30 | 18 41 | 28 9 | 4 41 | 20 10 | 2 11 | 22 39 | 0 43 | 12 10 | 0 58 | 19 40 | 0 39 | 21 50 | 0 4 | 23 7 | 0 7 | 21 26 | 1 24 | 12 48 | 9 39 | 9 8 | 9 18 | 23 39 | 1 18 | 3 34 |
| M31 | 18n26 | 27s19 | 4s59 | 20n19 | 1s55 | 22n38 | 0s40 | 12s22 | 0s59 | 19s40 | 0n39 | 21n49 | 0s 4 | 23s 6 | 0s 7 | 21s26 | 1n24 | 12n48 | 9s39 | 9n 4 | 9n17 | 23n37 | 1n16 | 3s33 |

Julian Day Number = 2324256.5, Delta T = 42.27 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'33, Lahiri = 18°59'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## AUGUST 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 37 47 | 8♌25'34 | 2♒31 | 19♋17 | 8♋14 | 0♏27 | 0♐32 | 20♋54 | 18°R29 | 16°R46 | 12♊46 | 23°R 8 | 23♈50 | 6♌21 | 18♍41 | T 1 |
| W 2 | 20 41 43 | 9°23'02 | 17°51 | 20°16 | 9°26 | 1° 1 | 0°33 | 21° 1 | 18♐28 | 16♐45 | 12°47 | 22♈58 | 23°47 | 6°27 | 18°49 | W 2 |
| T 3 | 20 45 40 | 10°20'30 | 3♓ 3 | 21°20 | 10°38 | 1°36 | 0°34 | 21° 9 | 18°27 | 16°44 | 12°48 | 22°49 | 23°44 | 6°34 | 18°56 | T 3 |
| F 4 | 20 49 36 | 11°18'00 | 17°55 | 22°30 | 11°49 | 2°10 | 0°35 | 21°16 | 18°26 | 16°43 | 12°49 | 22°43 | 23°40 | 6°41 | 19° 4 | F 4 |
| S 5 | 20 53 33 | 12°15'31 | 2♈23 | 23°46 | 13° 1 | 2°45 | 0°36 | 21°24 | 18°24 | 16°42 | 12°49 | 22°39 | 23°37 | 6°47 | 19°12 | S 5 |
| S 6 | 20 57 29 | 13°13'04 | 16°22 | 25° 7 | 14°14 | 3°20 | 0°38 | 21°31 | 18°23 | 16°42 | 12°50 | 22°38 | 23°34 | 6°54 | 19°19 | S 6 |
| M 7 | 21 1 26 | 14°10'38 | 29°53 | 26°33 | 15°26 | 3°55 | 0°39 | 21°39 | 18°22 | 16°41 | 12°51 | 22°D38 | 23°31 | 7° 1 | 19°27 | M 7 |
| T 8 | 21 5 23 | 15° 8'13 | 12♉58 | 28° 4 | 16°38 | 4°30 | 0°41 | 21°46 | 18°21 | 16°40 | 12°52 | 22°R38 | 23°28 | 7° 8 | 19°35 | T 8 |
| W 9 | 21 9 19 | 16° 5'50 | 25°41 | 29°40 | 17°50 | 5° 5 | 0°43 | 21°53 | 18°20 | 16°40 | 12°52 | 22°38 | 23°24 | 7°14 | 19°43 | W 9 |
| T 10 | 21 13 16 | 17° 3'29 | 8♊ 6 | 1♌20 | 19° 2 | 5°41 | 0°45 | 22° 1 | 18°19 | 16°39 | 12°53 | 22°36 | 23°21 | 7°21 | 19°51 | T 10 |
| F 11 | 21 17 12 | 18° 1'09 | 20°17 | 3° 3 | 20°15 | 6°17 | 0°48 | 22° 8 | 18°19 | 16°38 | 12°54 | 22°31 | 23°18 | 7°28 | 19°59 | F 11 |
| S 12 | 21 21 9 | 18°58'51 | 2♋19 | 4°50 | 21°27 | 6°53 | 0°50 | 22°15 | 18°18 | 16°38 | 12°55 | 22°25 | 23°15 | 7°34 | 20° 7 | S 12 |
| S 13 | 21 25 5 | 19°56'34 | 14°15 | 6°40 | 22°40 | 7°29 | 0°53 | 22°23 | 18°17 | 16°37 | 12°55 | 22°15 | 23°12 | 7°41 | 20°15 | S 13 |
| M14 | 21 29 2 | 20°54'19 | 26° 7 | 8°32 | 23°52 | 8° 5 | 0°56 | 22°30 | 18°16 | 16°37 | 12°56 | 22° 5 | 23° 9 | 7°48 | 20°23 | M14 |
| T 15 | 21 32 58 | 21°52'05 | 7♌59 | 10°27 | 25° 5 | 8°42 | 0°59 | 22°37 | 18°16 | 16°36 | 12°56 | 21°53 | 23° 5 | 7°55 | 20°31 | T 15 |
| W16 | 21 36 55 | 22°49'52 | 19°51 | 12°23 | 26°18 | 9°19 | 1° 3 | 22°44 | 18°15 | 16°36 | 12°57 | 21°42 | 23° 2 | 8° 1 | 20°39 | W16 |
| T 17 | 21 40 52 | 23°47'41 | 1♍46 | 14°21 | 27°30 | 9°55 | 1° 6 | 22°51 | 18°15 | 16°36 | 12°58 | 21°32 | 22°59 | 8° 8 | 20°47 | T 17 |
| F 18 | 21 44 48 | 24°45'31 | 13°44 | 16°20 | 28°43 | 10°32 | 1°10 | 22°58 | 18°14 | 16°35 | 12°58 | 21°24 | 22°56 | 8°15 | 20°55 | F 18 |
| S 19 | 21 48 45 | 25°43'23 | 25°48 | 18°19 | 29°56 | 11°10 | 1°13 | 23° 5 | 18°14 | 16°35 | 12°59 | 21°18 | 22°53 | 8°21 | 21° 4 | S 19 |
| S 20 | 21 52 41 | 26°41'16 | 8♎ 0 | 20°19 | 1♌ 9 | 11°47 | 1°17 | 23°12 | 18°13 | 16°35 | 12°59 | 21°15 | 22°50 | 8°28 | 21°12 | S 20 |
| M21 | 21 56 38 | 27°39'11 | 20°22 | 22°18 | 2°22 | 12°24 | 1°22 | 23°19 | 18°13 | 16°34 | 13° 0 | 21°D14 | 22°46 | 8°35 | 21°20 | M21 |
| T 22 | 22 0 34 | 28°37'06 | 2♏57 | 24°18 | 3°35 | 13° 2 | 1°26 | 23°26 | 18°12 | 16°34 | 13° 0 | 21°15 | 22°43 | 8°42 | 21°29 | T 22 |
| W23 | 22 4 31 | 29°35'03 | 15°50 | 26°17 | 4°48 | 13°40 | 1°30 | 23°33 | 18°12 | 16°34 | 13° 1 | 21°16 | 22°40 | 8°48 | 21°37 | W23 |
| T 24 | 22 8 27 | 0♍33'02 | 29° 3 | 28°16 | 6° 1 | 14°18 | 1°35 | 23°40 | 18°12 | 16°34 | 13° 1 | 21°R16 | 22°37 | 8°55 | 21°45 | T 24 |
| F 25 | 22 12 24 | 1°31'02 | 12♐40 | 0♍14 | 7°14 | 14°56 | 1°40 | 23°46 | 18°12 | 16°34 | 13° 1 | 21°16 | 22°34 | 9° 2 | 21°54 | F 25 |
| S 26 | 22 16 21 | 2°29'03 | 26°43 | 2°11 | 8°27 | 15°34 | 1°45 | 23°53 | 18°12 | 16°34 | 13° 2 | 21°13 | 22°30 | 9° 9 | 22° 2 | S 26 |
| S 27 | 22 20 17 | 3°27'05 | 11♑10 | 4° 7 | 9°40 | 16°13 | 1°50 | 24° 0 | 18°12 | 16°33 | 13° 2 | 21° 9 | 22°27 | 9°15 | 22°11 | S 27 |
| M28 | 22 24 14 | 4°25'09 | 25°59 | 6° 2 | 10°53 | 16°51 | 1°55 | 24° 6 | 18°D12 | 16°33 | 13° 3 | 21° 3 | 22°24 | 9°22 | 22°19 | M28 |
| T 29 | 22 28 10 | 5°23'15 | 11♒ 3 | 7°56 | 12° 7 | 17°30 | 2° 1 | 24°13 | 18°12 | 16°D33 | 13° 3 | 20°56 | 22°21 | 9°29 | 22°28 | T 29 |
| W30 | 22 32 7 | 6°21'22 | 26°13 | 9°49 | 13°20 | 18° 9 | 2° 6 | 24°19 | 18°12 | 16°33 | 13° 3 | 20°50 | 22°18 | 9°35 | 22°36 | W30 |
| T 31 | 22 36 3 | 7♍19'30 | 11♓19 | 11♍41 | 14♌33 | 18♏48 | 2♐12 | 24♋26 | 18♐12 | 16♐33 | 13♊ 3 | 20♈44 | 22♈15 | 9♌42 | 22♍45 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n12 | 24s27 | 4s57 | 20n28 | 1s39 | 22n37 | 0s37 | 12s35 | 1s 0 | 19s41 | 0n38 | 21n48 | 0s 4 | 23s 6 | 0s 7 | 21s26 | 1n24 | 12n48 | 9s39 | 9n 0 | 9n16 | 23n35 | 1n13 | 3s33 |
| W 2 | 17 56 | 19 51 | 4 34 | 20 35 | 1 23 | 22 35 | 0 34 | 12 48 | 1 0 | 19 41 | 0 38 | 21 47 | 0 4 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 39 | 8 57 | 9 15 | 23 33 | 1 11 | 3 32 |
| T 3 | 17 41 | 13 59 | 3 51 | 20 41 | 1 8 | 22 33 | 0 31 | 13 0 | 1 1 | 19 41 | 0 38 | 21 45 | 0 4 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 39 | 8 54 | 9 14 | 23 31 | 1 8 | 3 32 |
| F 4 | 17 25 | 7 26 | 2 53 | 20 45 | 0 52 | 22 30 | 0 28 | 13 13 | 1 2 | 19 42 | 0 38 | 21 44 | 0 4 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 39 | 8 51 | 9 12 | 23 29 | 1 6 | 3 31 |
| S 5 | 17 9 | 0 40 | 1 45 | 20 47 | 0 37 | 22 26 | 0 25 | 13 26 | 1 3 | 19 42 | 0 37 | 21 43 | 0 4 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 40 | 8 50 | 9 11 | 23 27 | 1 3 | 3 31 |
| S 6 | 16 53 | 5n56 | 0 33 | 20 47 | 0 23 | 22 22 | 0 22 | 13 39 | 1 4 | 19 43 | 0 37 | 21 42 | 0 4 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 40 | 8 49 | 9 10 | 23 25 | 1 1 | 3 30 |
| M 7 | 16 37 | 12 3 | 0n38 | 20 44 | 0 9 | 22 17 | 0 19 | 13 51 | 1 4 | 19 44 | 0 37 | 21 41 | 0 3 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 40 | 8 49 | 9 9 | 23 23 | 0 58 | 3 30 |
| T 8 | 16 20 | 17 27 | 1 46 | 20 40 | 0n 4 | 22 11 | 0 16 | 14 4 | 1 5 | 19 44 | 0 37 | 21 40 | 0 3 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 40 | 8 49 | 9 8 | 23 22 | 0 55 | 3 29 |
| W 9 | 16 3 | 21 54 | 2 46 | 20 32 | 0 17 | 22 5 | 0 13 | 14 17 | 1 6 | 19 45 | 0 37 | 21 39 | 0 3 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 40 | 8 49 | 9 7 | 23 20 | 0 53 | 3 29 |
| T 10 | 15 45 | 25 16 | 3 37 | 20 22 | 0 29 | 21 58 | 0 10 | 14 29 | 1 6 | 19 45 | 0 36 | 21 38 | 0 3 | 23 6 | 0 7 | 21 26 | 1 24 | 12 48 | 9 40 | 8 49 | 9 5 | 23 18 | 0 50 | 3 28 |
| F 11 | 15 28 | 27 24 | 4 17 | 20 10 | 0 40 | 21 50 | 0 7 | 14 42 | 1 7 | 19 46 | 0 36 | 21 37 | 0 3 | 23 5 | 0 7 | 21 26 | 1 24 | 12 47 | 9 40 | 8 47 | 9 4 | 23 16 | 0 47 | 3 28 |
| S 12 | 15 10 | 28 13 | 4 45 | 19 55 | 0 50 | 21 42 | 0 5 | 14 54 | 1 8 | 19 47 | 0 36 | 21 36 | 0 3 | 23 5 | 0 7 | 21 26 | 1 24 | 12 47 | 9 41 | 8 44 | 9 3 | 23 14 | 0 45 | 3 27 |
| S 13 | 14 52 | 27 42 | 5 0 | 19 37 | 1 0 | 21 33 | 0 2 | 15 7 | 1 8 | 19 48 | 0 36 | 21 35 | 0 3 | 23 5 | 0 7 | 21 26 | 1 24 | 12 47 | 9 41 | 8 41 | 9 2 | 23 12 | 0 42 | 3 27 |
| M14 | 14 33 | 25 55 | 5 2 | 19 16 | 1 9 | 21 24 | 0n 1 | 15 19 | 1 9 | 19 48 | 0 35 | 21 33 | 0 3 | 23 5 | 0 7 | 21 26 | 1 24 | 12 47 | 9 41 | 8 37 | 9 1 | 23 10 | 0 39 | 3 27 |
| T 15 | 14 15 | 23 0 | 4 51 | 18 53 | 1 16 | 21 13 | 0 4 | 15 32 | 1 10 | 19 49 | 0 35 | 21 32 | 0 3 | 23 5 | 0 7 | 21 26 | 1 24 | 12 47 | 9 41 | 8 33 | 9 0 | 23 8 | 0 36 | 3 26 |
| W16 | 13 56 | 19 7 | 4 28 | 18 27 | 1 23 | 21 3 | 0 7 | 15 44 | 1 10 | 19 50 | 0 35 | 21 31 | 0 3 | 23 5 | 0 7 | 21 26 | 1 24 | 12 47 | 9 41 | 8 28 | 8 58 | 23 6 | 0 34 | 3 26 |
| T 17 | 13 37 | 14 29 | 3 52 | 17 59 | 1 29 | 20 51 | 0 10 | 15 57 | 1 11 | 19 51 | 0 35 | 21 30 | 0 3 | 23 5 | 0 7 | 21 26 | 1 23 | 12 47 | 9 41 | 8 25 | 8 57 | 23 4 | 0 31 | 3 25 |
| F 18 | 13 18 | 9 17 | 3 7 | 17 28 | 1 34 | 20 40 | 0 12 | 16 9 | 1 12 | 19 52 | 0 35 | 21 29 | 0 3 | 23 5 | 0 7 | 21 26 | 1 23 | 12 47 | 9 41 | 8 22 | 8 56 | 23 2 | 0 28 | 3 25 |
| S 19 | 12 58 | 3 41 | 2 12 | 16 55 | 1 38 | 20 27 | 0 15 | 16 21 | 1 12 | 19 53 | 0 34 | 21 28 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 47 | 9 42 | 8 20 | 8 55 | 23 0 | 0 25 | 3 24 |
| S 20 | 12 39 | 2s 6 | 1 10 | 16 21 | 1 41 | 20 14 | 0 18 | 16 33 | 1 13 | 19 54 | 0 34 | 21 27 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 47 | 9 42 | 8 18 | 8 54 | 22 58 | 0 22 | 3 24 |
| M21 | 12 19 | 7 54 | 0 5 | 15 44 | 1 44 | 20 0 | 0 20 | 16 45 | 1 13 | 19 55 | 0 34 | 21 26 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 47 | 9 42 | 8 18 | 8 52 | 22 56 | 0 19 | 3 24 |
| T 22 | 11 59 | 13 30 | 1s 3 | 15 6 | 1 45 | 19 46 | 0 23 | 16 58 | 1 14 | 19 56 | 0 34 | 21 25 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 47 | 9 42 | 8 18 | 8 51 | 22 54 | 0 16 | 3 23 |
| W23 | 11 38 | 18 39 | 2 8 | 14 27 | 1 46 | 19 31 | 0 26 | 17 10 | 1 15 | 19 57 | 0 34 | 21 24 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 42 | 8 19 | 8 50 | 22 51 | 0 13 | 3 23 |
| T 24 | 11 18 | 23 4 | 3 9 | 13 46 | 1 46 | 19 16 | 0 28 | 17 21 | 1 15 | 19 58 | 0 33 | 21 23 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 42 | 8 19 | 8 49 | 22 49 | 0 10 | 3 22 |
| F 25 | 10 57 | 26 21 | 4 1 | 13 4 | 1 46 | 19 0 | 0 31 | 17 33 | 1 16 | 20 0 | 0 33 | 21 22 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 43 | 8 19 | 8 48 | 22 47 | 0 8 | 3 22 |
| S 26 | 10 37 | 28 7 | 4 40 | 12 21 | 1 45 | 18 43 | 0 33 | 17 45 | 1 16 | 20 1 | 0 33 | 21 20 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 43 | 8 18 | 8 47 | 22 45 | 0 5 | 3 22 |
| S 27 | 10 16 | 28 3 | 5 3 | 11 37 | 1 43 | 18 26 | 0 36 | 17 57 | 1 17 | 20 2 | 0 33 | 21 19 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 43 | 8 16 | 8 45 | 22 43 | 0 2 | 3 21 |
| M28 | 9 55 | 26 1 | 5 7 | 10 53 | 1 41 | 18 9 | 0 38 | 18 8 | 1 17 | 20 3 | 0 33 | 21 18 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 43 | 8 14 | 8 44 | 22 41 | 0s 2 | 3 21 |
| T 29 | 9 33 | 22 7 | 4 49 | 10 8 | 1 38 | 17 51 | 0 40 | 18 20 | 1 18 | 20 5 | 0 32 | 21 17 | 0 2 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 43 | 8 11 | 8 43 | 22 39 | 0 5 | 3 21 |
| W30 | 9 12 | 16 44 | 4 12 | 9 22 | 1 35 | 17 32 | 0 43 | 18 31 | 1 18 | 20 6 | 0 32 | 21 16 | 0 1 | 23 5 | 0 7 | 21 26 | 1 23 | 12 46 | 9 43 | 8 9 | 8 42 | 22 37 | 0 8 | 3 20 |
| T 31 | 8n50 | 10s21 | 3s16 | 8n36 | 1n31 | 17n13 | 0n45 | 18s43 | 1s19 | 20s 7 | 0n32 | 21n15 | 0s 1 | 23s 5 | 0s 7 | 21s26 | 1n23 | 12n45 | 9s44 | 8n 7 | 8n41 | 22n35 | 0s11 | 3s20 |

Julian Day Number = 2324287.5, Delta T = 42.21 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'38, Lahiri = 18°59'38Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## SEPTEMBER 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 40 0 | 8♍17'40 | 26♓12 | 13♍32 | 15♌47 | 19♏27 | 2♐18 | 24♋32 | 18♐12 | 16♐34 | 13♊ 4 | 20°R40 | 22♈11 | 9♌49 | 22♍54 | F 1 |
| S 2 | 22 43 56 | 9°15'52 | 10♈43 | 15°21 | 17° 0 | 20° 6 | 2°24 | 24°39 | 18°12 | 16°34 | 13° 4 | 20♈38 | 22° 8 | 9°56 | 23° 2 | S 2 |
| S 3 | 22 47 53 | 10°14'06 | 24°49 | 17°10 | 18°14 | 20°45 | 2°30 | 24°45 | 18°13 | 16°34 | 13° 4 | 20°D38 | 22° 5 | 10° 2 | 23°11 | S 3 |
| M 4 | 22 51 50 | 11°12'23 | 8♉26 | 18°57 | 19°28 | 21°25 | 2°36 | 24°51 | 18°13 | 16°34 | 13° 4 | 20°39 | 22° 2 | 10° 9 | 23°20 | M 4 |
| T 5 | 22 55 46 | 12°10'41 | 21°37 | 20°43 | 20°41 | 22° 4 | 2°43 | 24°57 | 18°13 | 16°34 | 13° 5 | 20°40 | 21°59 | 10°16 | 23°28 | T 5 |
| W 6 | 22 59 43 | 13° 9'01 | 4♊24 | 22°28 | 21°55 | 22°44 | 2°50 | 25° 3 | 18°14 | 16°34 | 13° 5 | 20°41 | 21°56 | 10°22 | 23°37 | W 6 |
| T 7 | 23 3 39 | 14° 7'24 | 16°51 | 24°11 | 23° 9 | 23°24 | 2°56 | 25° 9 | 18°14 | 16°35 | 13° 5 | 20°R42 | 21°52 | 10°29 | 23°46 | T 7 |
| F 8 | 23 7 36 | 15° 5'48 | 29° 3 | 25°54 | 24°23 | 24° 4 | 3° 3 | 25°15 | 18°15 | 16°35 | 13° 5 | 20°41 | 21°49 | 10°36 | 23°54 | F 8 |
| S 9 | 23 11 32 | 16° 4'15 | 11♋ 4 | 27°36 | 25°36 | 24°44 | 3°10 | 25°21 | 18°16 | 16°35 | 13° 5 | 20°38 | 21°46 | 10°43 | 24° 3 | S 9 |
| S 10 | 23 15 29 | 17° 2'44 | 22°58 | 29°16 | 26°50 | 25°24 | 3°18 | 25°27 | 18°16 | 16°36 | 13° 5 | 20°34 | 21°43 | 10°49 | 24°12 | S 10 |
| M11 | 23 19 25 | 18° 1'15 | 4♌49 | 0♎56 | 28° 4 | 26° 5 | 3°25 | 25°33 | 18°17 | 16°36 | 13° 5 | 20°29 | 21°40 | 10°56 | 24°21 | M11 |
| T 12 | 23 23 22 | 18°59'48 | 16°41 | 2°34 | 29°18 | 26°45 | 3°32 | 25°39 | 18°18 | 16°37 | 13° 5 | 20°23 | 21°36 | 11° 3 | 24°30 | T 12 |
| W13 | 23 27 19 | 19°58'23 | 28°36 | 4°11 | 0♍32 | 27°26 | 3°40 | 25°44 | 18°18 | 16°37 | 13°R 5 | 20°18 | 21°33 | 11° 9 | 24°38 | W13 |
| T 14 | 23 31 15 | 20°57'00 | 10♍37 | 5°48 | 1°46 | 28° 7 | 3°48 | 25°50 | 18°19 | 16°38 | 13° 5 | 20°13 | 21°30 | 11°16 | 24°47 | T 14 |
| F 15 | 23 35 12 | 21°55'39 | 22°44 | 7°23 | 3° 0 | 28°48 | 3°56 | 25°55 | 18°20 | 16°38 | 13° 5 | 20° 9 | 21°27 | 11°23 | 24°56 | F 15 |
| S 16 | 23 39 8 | 22°54'20 | 5♎ 0 | 8°57 | 4°15 | 29°29 | 4° 4 | 26° 1 | 18°21 | 16°39 | 13° 5 | 20° 6 | 21°24 | 11°30 | 25° 5 | S 16 |
| S 17 | 23 43 5 | 23°53'03 | 17°26 | 10°31 | 5°29 | 0♐10 | 4°12 | 26° 6 | 18°22 | 16°39 | 13° 5 | 20°D 6 | 21°21 | 11°36 | 25°14 | S 17 |
| M18 | 23 47 1 | 24°51'48 | 0♏ 3 | 12° 3 | 6°43 | 0°51 | 4°20 | 26°11 | 18°23 | 16°40 | 13° 5 | 20° 6 | 21°17 | 11°43 | 25°22 | M18 |
| T 19 | 23 50 58 | 25°50'34 | 12°52 | 13°34 | 7°57 | 1°32 | 4°29 | 26°17 | 18°24 | 16°41 | 13° 5 | 20° 7 | 21°14 | 11°50 | 25°31 | T 19 |
| W20 | 23 54 54 | 26°49'23 | 25°56 | 15° 5 | 9°12 | 2°14 | 4°37 | 26°22 | 18°26 | 16°41 | 13° 5 | 20° 9 | 21°11 | 11°56 | 25°40 | W20 |
| T 21 | 23 58 51 | 27°48'13 | 9♐16 | 16°34 | 10°26 | 2°55 | 4°46 | 26°27 | 18°27 | 16°42 | 13° 5 | 20°10 | 21° 8 | 12° 3 | 25°49 | T 21 |
| F 22 | 0 2 48 | 28°47'05 | 22°53 | 18° 3 | 11°40 | 3°37 | 4°55 | 26°32 | 18°28 | 16°43 | 13° 4 | 20°R11 | 21° 5 | 12°10 | 25°58 | F 22 |
| S 23 | 0 6 44 | 29°45'59 | 6♑49 | 19°30 | 12°55 | 4°19 | 5° 4 | 26°37 | 18°29 | 16°44 | 13° 4 | 20°11 | 21° 2 | 12°17 | 26° 6 | S 23 |
| S 24 | 0 10 41 | 0♎44'55 | 21° 2 | 20°56 | 14° 9 | 5° 1 | 5°13 | 26°41 | 18°31 | 16°45 | 13° 4 | 20°10 | 20°58 | 12°23 | 26°15 | S 24 |
| M25 | 0 14 37 | 1°43'52 | 5♒32 | 22°22 | 15°24 | 5°43 | 5°22 | 26°46 | 18°32 | 16°45 | 13° 4 | 20° 8 | 20°55 | 12°30 | 26°24 | M25 |
| T 26 | 0 18 34 | 2°42'51 | 20°13 | 23°46 | 16°38 | 6°25 | 5°31 | 26°51 | 18°34 | 16°46 | 13° 3 | 20° 6 | 20°52 | 12°37 | 26°33 | T 26 |
| W27 | 0 22 30 | 3°41'52 | 5♓ 0 | 25°10 | 17°53 | 7° 7 | 5°40 | 26°55 | 18°35 | 16°47 | 13° 3 | 20° 4 | 20°49 | 12°43 | 26°42 | W27 |
| T 28 | 0 26 27 | 4°40'54 | 19°45 | 26°32 | 19° 7 | 7°49 | 5°50 | 27° 0 | 18°37 | 16°48 | 13° 3 | 20° 2 | 20°46 | 12°50 | 26°50 | T 28 |
| F 29 | 0 30 23 | 5°39'59 | 4♈23 | 27°53 | 20°22 | 8°31 | 5°59 | 27° 4 | 18°38 | 16°49 | 13° 2 | 20° 1 | 20°42 | 12°57 | 26°59 | F 29 |
| S 30 | 0 34 20 | 6♎39'05 | 18♈45 | 29♎13 | 21♍36 | 9♐14 | 6♐ 9 | 27♋ 9 | 18♐40 | 16♐50 | 13♊ 2 | 20°D 0 | 20♈39 | 13♌ 4 | 27♍ 8 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8n29 | 3s29 | 2s 8 | 7n50 | 1n27 | 16n53 | 0n47 | 18s54 | 1s19 | 20s 9 | 0n32 | 21n14 | 0s 1 | 23s 5 | 0s 7 | 21s26 | 1n23 | 12n45 | 9s44 | 8n 5 | 8n39 | 22n33 | 0s14 | 3s20 |
| S 2 | 8 7 | 3n26 | 0 53 | 7 3 | 1 23 | 16 33 | 0 49 | 19 5 | 1 20 | 20 10 | 0 32 | 21 13 | 0 1 | 23 5 | 0 7 | 21 26 | 1 23 | 12 45 | 9 44 | 8 4 | 8 38 | 22 31 | 0 17 | 3 19 |
| S 3 | 7 45 | 9 59 | 0n23 | 6 16 | 1 18 | 16 13 | 0 52 | 19 16 | 1 20 | 20 11 | 0 31 | 21 12 | 0 1 | 23 5 | 0 7 | 21 26 | 1 23 | 12 45 | 9 44 | 8 4 | 8 37 | 22 29 | 0 20 | 3 19 |
| M 4 | 7 23 | 15 51 | 1 35 | 5 30 | 1 13 | 15 52 | 0 54 | 19 27 | 1 21 | 20 13 | 0 31 | 21 11 | 0 1 | 23 5 | 0 7 | 21 26 | 1 23 | 12 45 | 9 44 | 8 5 | 8 36 | 22 26 | 0 23 | 3 19 |
| T 5 | 7 0 | 20 47 | 2 40 | 4 43 | 1 7 | 15 30 | 0 56 | 19 38 | 1 21 | 20 14 | 0 31 | 21 10 | 0 1 | 23 5 | 0 7 | 21 26 | 1 22 | 12 45 | 9 44 | 8 5 | 8 35 | 22 24 | 0 26 | 3 18 |
| W 6 | 6 38 | 24 36 | 3 35 | 3 56 | 1 1 | 15 8 | 0 58 | 19 48 | 1 21 | 20 16 | 0 31 | 21 9 | 0 1 | 23 5 | 0 7 | 21 27 | 1 22 | 12 45 | 9 45 | 8 6 | 8 33 | 22 22 | 0 29 | 3 18 |
| T 7 | 6 16 | 27 8 | 4 19 | 3 10 | 0 56 | 14 46 | 1 0 | 19 59 | 1 22 | 20 17 | 0 31 | 21 8 | 0 1 | 23 5 | 0 7 | 21 27 | 1 22 | 12 44 | 9 45 | 8 6 | 8 32 | 22 20 | 0 33 | 3 18 |
| F 8 | 5 53 | 28 18 | 4 49 | 2 23 | 0 49 | 14 23 | 1 1 | 20 9 | 1 22 | 20 19 | 0 30 | 21 7 | 0 1 | 23 5 | 0 7 | 21 27 | 1 22 | 12 44 | 9 45 | 8 5 | 8 31 | 22 18 | 0 36 | 3 17 |
| S 9 | 5 30 | 28 7 | 5 7 | 1 37 | 0 43 | 14 0 | 1 3 | 20 19 | 1 23 | 20 20 | 0 30 | 21 6 | 0 1 | 23 5 | 0 7 | 21 27 | 1 22 | 12 44 | 9 45 | 8 4 | 8 30 | 22 16 | 0 39 | 3 17 |
| S 10 | 5 8 | 26 38 | 5 11 | 0 51 | 0 36 | 13 37 | 1 5 | 20 30 | 1 23 | 20 22 | 0 30 | 21 5 | 0 0 | 23 5 | 0 7 | 21 27 | 1 22 | 12 44 | 9 45 | 8 3 | 8 29 | 22 14 | 0 42 | 3 17 |
| M11 | 4 45 | 23 58 | 5 2 | 0 5 | 0 30 | 13 13 | 1 7 | 20 40 | 1 23 | 20 23 | 0 30 | 21 4 | 0 0 | 23 5 | 0 7 | 21 27 | 1 22 | 12 44 | 9 45 | 8 1 | 8 28 | 22 11 | 0 45 | 3 16 |
| T 12 | 4 22 | 20 18 | 4 39 | 0s40 | 0 23 | 12 48 | 1 8 | 20 50 | 1 24 | 20 25 | 0 30 | 21 3 | 0 0 | 23 6 | 0 7 | 21 27 | 1 22 | 12 44 | 9 46 | 7 59 | 8 26 | 22 9 | 0 48 | 3 16 |
| W13 | 3 59 | 15 48 | 4 5 | 1 26 | 0 16 | 12 24 | 1 10 | 20 59 | 1 24 | 20 27 | 0 30 | 21 2 | 0 0 | 23 6 | 0 7 | 21 27 | 1 22 | 12 43 | 9 46 | 7 57 | 8 25 | 22 7 | 0 52 | 3 16 |
| T 14 | 3 36 | 10 40 | 3 19 | 2 10 | 0 9 | 11 59 | 1 11 | 21 9 | 1 24 | 20 28 | 0 29 | 21 1 | 0 0 | 23 6 | 0 7 | 21 27 | 1 22 | 12 43 | 9 46 | 7 55 | 8 24 | 22 5 | 0 55 | 3 16 |
| F 15 | 3 13 | 5 6 | 2 24 | 2 55 | 0 1 | 11 33 | 1 13 | 21 18 | 1 25 | 20 30 | 0 29 | 21 0 | 0 0 | 23 6 | 0 7 | 21 27 | 1 22 | 12 43 | 9 46 | 7 53 | 8 23 | 22 3 | 0 58 | 3 15 |
| S 16 | 2 49 | 0s44 | 1 22 | 3 39 | 0s 6 | 11 8 | 1 14 | 21 28 | 1 25 | 20 32 | 0 29 | 20 59 | 0n 0 | 23 6 | 0 7 | 21 27 | 1 22 | 12 43 | 9 46 | 7 52 | 8 22 | 22 1 | 1 1 | 3 15 |
| S 17 | 2 26 | 6 38 | 0 15 | 4 22 | 0 13 | 10 42 | 1 16 | 21 37 | 1 25 | 20 33 | 0 29 | 20 58 | 0 0 | 23 6 | 0 7 | 21 28 | 1 22 | 12 43 | 9 46 | 7 52 | 8 20 | 21 58 | 1 5 | 3 15 |
| M18 | 2 3 | 12 22 | 0s54 | 5 5 | 0 21 | 10 15 | 1 17 | 21 46 | 1 26 | 20 35 | 0 29 | 20 58 | 0 0 | 23 6 | 0 7 | 21 28 | 1 22 | 12 43 | 9 47 | 7 52 | 8 19 | 21 56 | 1 8 | 3 14 |
| T 19 | 1 39 | 17 40 | 2 2 | 5 48 | 0 28 | 9 49 | 1 18 | 21 55 | 1 26 | 20 37 | 0 29 | 20 57 | 0 0 | 23 6 | 0 7 | 21 28 | 1 22 | 12 42 | 9 47 | 7 53 | 8 18 | 21 54 | 1 11 | 3 14 |
| W20 | 1 16 | 22 16 | 3 5 | 6 30 | 0 36 | 9 22 | 1 19 | 22 3 | 1 26 | 20 38 | 0 28 | 20 56 | 0 0 | 23 6 | 0 7 | 21 28 | 1 22 | 12 42 | 9 47 | 7 53 | 8 17 | 21 52 | 1 14 | 3 14 |
| T 21 | 0 53 | 25 49 | 3 58 | 7 11 | 0 43 | 8 55 | 1 20 | 22 12 | 1 26 | 20 40 | 0 28 | 20 55 | 0 1 | 23 6 | 0 7 | 21 28 | 1 22 | 12 42 | 9 47 | 7 54 | 8 16 | 21 49 | 1 18 | 3 14 |
| F 22 | 0 29 | 27 58 | 4 40 | 7 52 | 0 51 | 8 27 | 1 21 | 22 20 | 1 27 | 20 42 | 0 28 | 20 54 | 0 1 | 23 6 | 0 7 | 21 28 | 1 22 | 12 42 | 9 47 | 7 54 | 8 14 | 21 47 | 1 21 | 3 13 |
| S 23 | 0 6 | 28 25 | 5 7 | 8 32 | 0 58 | 8 0 | 1 22 | 22 28 | 1 27 | 20 44 | 0 28 | 20 53 | 0 1 | 23 7 | 0 7 | 21 28 | 1 21 | 12 42 | 9 47 | 7 54 | 8 13 | 21 45 | 1 24 | 3 13 |
| S 24 | 0s18 | 27 1 | 5 15 | 9 12 | 1 5 | 7 32 | 1 23 | 22 36 | 1 27 | 20 45 | 0 28 | 20 52 | 0 1 | 23 7 | 0 7 | 21 28 | 1 21 | 12 41 | 9 48 | 7 54 | 8 12 | 21 43 | 1 28 | 3 13 |
| M25 | 0 41 | 23 50 | 5 4 | 9 51 | 1 13 | 7 4 | 1 24 | 22 44 | 1 27 | 20 47 | 0 27 | 20 52 | 0 1 | 23 7 | 0 7 | 21 29 | 1 21 | 12 41 | 9 48 | 7 53 | 8 11 | 21 41 | 1 31 | 3 13 |
| T 26 | 1 5 | 19 5 | 4 33 | 10 29 | 1 20 | 6 35 | 1 25 | 22 52 | 1 28 | 20 49 | 0 27 | 20 51 | 0 1 | 23 7 | 0 7 | 21 29 | 1 21 | 12 41 | 9 48 | 7 52 | 8 10 | 21 38 | 1 34 | 3 13 |
| W27 | 1 28 | 13 10 | 3 44 | 11 7 | 1 27 | 6 7 | 1 25 | 22 59 | 1 28 | 20 51 | 0 27 | 20 50 | 0 1 | 23 7 | 0 7 | 21 29 | 1 21 | 12 41 | 9 48 | 7 51 | 8 8 | 21 36 | 1 37 | 3 12 |
| T 28 | 1 52 | 6 30 | 2 39 | 11 43 | 1 35 | 5 38 | 1 26 | 23 6 | 1 28 | 20 53 | 0 27 | 20 49 | 0 1 | 23 7 | 0 7 | 21 29 | 1 21 | 12 41 | 9 48 | 7 51 | 8 7 | 21 34 | 1 41 | 3 12 |
| F 29 | 2 15 | 0n26 | 1 25 | 12 19 | 1 42 | 5 9 | 1 27 | 23 13 | 1 28 | 20 55 | 0 27 | 20 48 | 0 1 | 23 7 | 0 7 | 21 29 | 1 21 | 12 40 | 9 48 | 7 50 | 8 6 | 21 31 | 1 44 | 3 12 |
| S 30 | 2s39 | 7n15 | 0s 7 | 12s55 | 1s49 | 4n40 | 1n27 | 23s20 | 1s28 | 20s56 | 0n27 | 20n48 | 0n 1 | 23s 7 | 0s 7 | 21s29 | 1n21 | 12n40 | 9s49 | 7n50 | 8n 5 | 21n29 | 1s47 | 3s12 |

Julian Day Number = 2324318.5, Delta T = 42.15 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'42, Lahiri = 18°59'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## OCTOBER 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 38 16 | 7♎38'14 | 2♉46 | 0♏32 | 22♍51 | 9♐57 | 6♐19 | 27♋13 | 18♐42 | 16♐51 | 13°R 2 | 20♈ 1 | 20♈36 | 13♌10 | 27♍17 | S 1 |
| M 2 | 0 42 13 | 8°37'25 | 16°25 | 1°49 | 24° 6 | 10°39 | 6°29 | 27°17 | 18°43 | 16°52 | 13♊ 1 | 20° 1 | 20°33 | 13°17 | 27°25 | M 2 |
| T 3 | 0 46 10 | 9°36'38 | 29°39 | 3° 5 | 25°21 | 11°22 | 6°39 | 27°21 | 18°45 | 16°53 | 13° 1 | 20° 2 | 20°30 | 13°24 | 27°34 | T 3 |
| W 4 | 0 50 6 | 10°35'54 | 12♊31 | 4°20 | 26°35 | 12° 5 | 6°49 | 27°25 | 18°47 | 16°55 | 13° 0 | 20° 3 | 20°27 | 13°30 | 27°43 | W 4 |
| T 5 | 0 54 3 | 11°35'12 | 25° 2 | 5°33 | 27°50 | 12°48 | 6°59 | 27°29 | 18°49 | 16°56 | 13° 0 | 20° 4 | 20°23 | 13°37 | 27°52 | T 5 |
| F 6 | 0 57 59 | 12°34'32 | 7♋16 | 6°45 | 29° 5 | 13°31 | 7° 9 | 27°33 | 18°51 | 16°57 | 12°59 | 20°R 4 | 20°20 | 13°44 | 28° 0 | F 6 |
| S 7 | 1 1 56 | 13°33'55 | 19°19 | 7°55 | 0♎20 | 14°14 | 7°20 | 27°36 | 18°53 | 16°58 | 12°59 | 20° 4 | 20°17 | 13°51 | 28° 9 | S 7 |
| S 8 | 1 5 52 | 14°33'20 | 1♌14 | 9° 3 | 1°35 | 14°57 | 7°30 | 27°40 | 18°55 | 16°59 | 12°58 | 20° 4 | 20°14 | 13°57 | 28°18 | S 8 |
| M 9 | 1 9 49 | 15°32'47 | 13° 5 | 10° 8 | 2°50 | 15°40 | 7°41 | 27°43 | 18°57 | 17° 1 | 12°58 | 20° 3 | 20°11 | 14° 4 | 28°26 | M 9 |
| T 10 | 1 13 45 | 16°32'16 | 24°58 | 11°12 | 4° 5 | 16°24 | 7°52 | 27°47 | 18°59 | 17° 2 | 12°57 | 20° 3 | 20° 7 | 14°11 | 28°35 | T 10 |
| W11 | 1 17 42 | 17°31'48 | 6♍56 | 12°13 | 5°19 | 17° 7 | 8° 2 | 27°50 | 19° 1 | 17° 3 | 12°57 | 20° 3 | 20° 4 | 14°17 | 28°43 | W11 |
| T 12 | 1 21 39 | 18°31'22 | 19° 3 | 13°12 | 6°34 | 17°51 | 8°13 | 27°53 | 19° 3 | 17° 5 | 12°56 | 20° 2 | 20° 1 | 14°24 | 28°52 | T 12 |
| F 13 | 1 25 35 | 19°30'58 | 1♎20 | 14° 7 | 7°49 | 18°35 | 8°24 | 27°56 | 19° 5 | 17° 6 | 12°56 | 20° 2 | 19°58 | 14°31 | 29° 0 | F 13 |
| S 14 | 1 29 32 | 20°30'36 | 13°51 | 14°59 | 9° 5 | 19°18 | 8°35 | 27°59 | 19° 8 | 17° 7 | 12°55 | 20° 2 | 19°55 | 14°37 | 29° 9 | S 14 |
| S 15 | 1 33 28 | 21°30'16 | 26°35 | 15°48 | 10°20 | 20° 2 | 8°47 | 28° 2 | 19°10 | 17° 9 | 12°54 | 20° 2 | 19°52 | 14°44 | 29°17 | S 15 |
| M16 | 1 37 25 | 22°29'58 | 9♏33 | 16°33 | 11°35 | 20°46 | 8°58 | 28° 5 | 19°12 | 17°10 | 12°54 | 20° 2 | 19°48 | 14°51 | 29°26 | M16 |
| T 17 | 1 41 21 | 23°29'42 | 22°45 | 17°13 | 12°50 | 21°30 | 9° 9 | 28° 8 | 19°15 | 17°12 | 12°53 | 20° 2 | 19°45 | 14°58 | 29°34 | T 17 |
| W18 | 1 45 18 | 24°29'28 | 6♐11 | 17°49 | 14° 5 | 22°14 | 9°20 | 28°10 | 19°17 | 17°13 | 12°52 | 20° 1 | 19°42 | 15° 4 | 29°42 | W18 |
| T 19 | 1 49 14 | 25°29'16 | 19°49 | 18°19 | 15°20 | 22°58 | 9°32 | 28°13 | 19°20 | 17°15 | 12°52 | 20° 1 | 19°39 | 15°11 | 29°51 | T 19 |
| F 20 | 1 53 11 | 26°29'06 | 3♑38 | 18°44 | 16°35 | 23°43 | 9°44 | 28°15 | 19°22 | 17°17 | 12°51 | 20° 0 | 19°36 | 15°18 | 29°59 | F 20 |
| S 21 | 1 57 8 | 27°28'57 | 17°37 | 19° 2 | 17°50 | 24°27 | 9°55 | 28°17 | 19°25 | 17°18 | 12°50 | 20° 0 | 19°33 | 15°24 | 0♎ 7 | S 21 |
| S 22 | 2 1 4 | 28°28'51 | 1♒45 | 19°13 | 19° 5 | 25°11 | 10° 7 | 28°19 | 19°27 | 17°20 | 12°49 | 20°D 0 | 19°29 | 15°31 | 0°16 | S 22 |
| M23 | 2 5 1 | 29°28'45 | 15°59 | 19°R16 | 20°21 | 25°56 | 10°19 | 28°22 | 19°30 | 17°21 | 12°48 | 20° 0 | 19°26 | 15°38 | 0°24 | M23 |
| T 24 | 2 8 57 | 0♏28'41 | 0♓17 | 19°11 | 21°36 | 26°40 | 10°30 | 28°23 | 19°32 | 17°23 | 12°48 | 20° 1 | 19°23 | 15°45 | 0°32 | T 24 |
| W25 | 2 12 54 | 1°28'39 | 14°37 | 18°57 | 22°51 | 27°25 | 10°42 | 28°25 | 19°35 | 17°25 | 12°47 | 20° 2 | 19°20 | 15°51 | 0°40 | W25 |
| T 26 | 2 16 50 | 2°28'39 | 28°54 | 18°35 | 24° 6 | 28°10 | 10°54 | 28°27 | 19°38 | 17°27 | 12°46 | 20° 3 | 19°17 | 15°58 | 0°48 | T 26 |
| F 27 | 2 20 47 | 3°28'40 | 13♈ 4 | 18° 2 | 25°22 | 28°54 | 11° 6 | 28°29 | 19°41 | 17°28 | 12°45 | 20°R 3 | 19°13 | 16° 5 | 0°56 | F 27 |
| S 28 | 2 24 43 | 4°28'43 | 27° 5 | 17°21 | 26°37 | 29°39 | 11°19 | 28°30 | 19°43 | 17°30 | 12°44 | 20° 3 | 19°10 | 16°11 | 1° 4 | S 28 |
| S 29 | 2 28 40 | 5°28'48 | 10♉50 | 16°30 | 27°52 | 0♑24 | 11°31 | 28°32 | 19°46 | 17°32 | 12°43 | 20° 2 | 19° 7 | 16°18 | 1°12 | S 29 |
| M30 | 2 32 37 | 6°28'54 | 24°19 | 15°30 | 29° 7 | 1° 9 | 11°43 | 28°33 | 19°49 | 17°34 | 12°43 | 20° 1 | 19° 4 | 16°25 | 1°20 | M30 |
| T 31 | 2 36 33 | 7♏29'03 | 7♊29 | 14♏23 | 0♏23 | 1♑54 | 11♐55 | 28♋34 | 19♐52 | 17♐35 | 12♊42 | 19♈58 | 19♈ 1 | 16♌32 | 1♎28 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3 s 2 | 13n33 | 1n10 | 13 s29 | 1 s56 | 4n11 | 1n27 | 23 s27 | 1 s28 | 20 s58 | 0n27 | 20n47 | 0n 1 | 23 s 8 | 0 s 7 | 21 s29 | 1n21 | 12n40 | 9 s49 | 7n50 | 8n 4 | 21n27 | 1 s51 | 3 s11 |
| M 2 | 3 26 | 19 2 | 2 21 | 14 2 | 2 2 | 3 42 | 1 28 | 23 33 | 1 29 | 21 0 | 0 26 | 20 46 | 0 2 | 23 8 | 0 7 | 21 30 | 1 21 | 12 40 | 9 49 | 7 51 | 8 2 | 21 25 | 1 54 | 3 11 |
| T 3 | 3 49 | 23 24 | 3 22 | 14 35 | 2 9 | 3 12 | 1 28 | 23 39 | 1 29 | 21 2 | 0 26 | 20 46 | 0 2 | 23 8 | 0 7 | 21 30 | 1 21 | 12 40 | 9 49 | 7 51 | 8 1 | 21 22 | 1 57 | 3 11 |
| W 4 | 4 12 | 26 30 | 4 11 | 15 7 | 2 15 | 2 43 | 1 28 | 23 45 | 1 29 | 21 4 | 0 26 | 20 45 | 0 2 | 23 8 | 0 7 | 21 30 | 1 21 | 12 39 | 9 49 | 7 51 | 8 0 | 21 20 | 2 0 | 3 11 |
| T 5 | 4 35 | 28 11 | 4 47 | 15 37 | 2 21 | 2 13 | 1 28 | 23 51 | 1 29 | 21 6 | 0 26 | 20 44 | 0 2 | 23 8 | 0 7 | 21 30 | 1 21 | 12 39 | 9 49 | 7 52 | 7 59 | 21 18 | 2 4 | 3 11 |
| F 6 | 4 59 | 28 26 | 5 9 | 16 7 | 2 27 | 1 43 | 1 28 | 23 57 | 1 29 | 21 7 | 0 26 | 20 44 | 0 2 | 23 8 | 0 7 | 21 30 | 1 21 | 12 39 | 9 50 | 7 52 | 7 58 | 21 15 | 2 7 | 3 11 |
| S 7 | 5 22 | 27 19 | 5 17 | 16 35 | 2 33 | 1 13 | 1 28 | 24 2 | 1 29 | 21 9 | 0 26 | 20 43 | 0 2 | 23 9 | 0 7 | 21 30 | 1 21 | 12 39 | 9 50 | 7 52 | 7 56 | 21 13 | 2 10 | 3 10 |
| S 8 | 5 45 | 24 59 | 5 11 | 17 2 | 2 38 | 0 43 | 1 28 | 24 7 | 1 29 | 21 11 | 0 25 | 20 42 | 0 2 | 23 9 | 0 7 | 21 31 | 1 21 | 12 39 | 9 50 | 7 52 | 7 55 | 21 11 | 2 14 | 3 10 |
| M 9 | 6 8 | 21 35 | 4 52 | 17 28 | 2 43 | 0 13 | 1 28 | 24 12 | 1 29 | 21 13 | 0 25 | 20 42 | 0 2 | 23 9 | 0 7 | 21 31 | 1 21 | 12 38 | 9 50 | 7 51 | 7 54 | 21 8 | 2 17 | 3 10 |
| T 10 | 6 31 | 17 18 | 4 20 | 17 53 | 2 48 | 0 s17 | 1 28 | 24 17 | 1 30 | 21 15 | 0 25 | 20 41 | 0 2 | 23 9 | 0 7 | 21 31 | 1 21 | 12 38 | 9 50 | 7 51 | 7 53 | 21 6 | 2 20 | 3 10 |
| W11 | 6 54 | 12 20 | 3 37 | 18 16 | 2 52 | 0 47 | 1 28 | 24 21 | 1 30 | 21 17 | 0 25 | 20 41 | 0 2 | 23 9 | 0 7 | 21 31 | 1 21 | 12 38 | 9 50 | 7 51 | 7 52 | 21 4 | 2 23 | 3 10 |
| T 12 | 7 16 | 6 51 | 2 44 | 18 37 | 2 56 | 1 17 | 1 27 | 24 25 | 1 30 | 21 19 | 0 25 | 20 40 | 0 3 | 23 9 | 0 7 | 21 31 | 1 21 | 12 38 | 9 50 | 7 51 | 7 50 | 21 1 | 2 27 | 3 10 |
| F 13 | 7 39 | 1 1 | 1 42 | 18 58 | 2 59 | 1 47 | 1 27 | 24 29 | 1 30 | 21 21 | 0 25 | 20 40 | 0 3 | 23 10 | 0 7 | 21 31 | 1 21 | 12 38 | 9 51 | 7 51 | 7 49 | 20 59 | 2 30 | 3 9 |
| S 14 | 8 2 | 4 s57 | 0 34 | 19 16 | 3 2 | 2 17 | 1 27 | 24 33 | 1 30 | 21 23 | 0 25 | 20 39 | 0 3 | 23 10 | 0 7 | 21 32 | 1 20 | 12 37 | 9 51 | 7 51 | 7 48 | 20 57 | 2 33 | 3 9 |
| S 15 | 8 24 | 10 50 | 0 s36 | 19 33 | 3 5 | 2 47 | 1 26 | 24 36 | 1 30 | 21 24 | 0 24 | 20 39 | 0 3 | 23 10 | 0 7 | 21 32 | 1 20 | 12 37 | 9 51 | 7 51 | 7 47 | 20 54 | 2 36 | 3 9 |
| M16 | 8 46 | 16 23 | 1 46 | 19 47 | 3 6 | 3 17 | 1 25 | 24 40 | 1 30 | 21 26 | 0 24 | 20 38 | 0 3 | 23 10 | 0 7 | 21 32 | 1 20 | 12 37 | 9 51 | 7 51 | 7 46 | 20 52 | 2 40 | 3 9 |
| T 17 | 9 9 | 21 16 | 2 52 | 20 0 | 3 7 | 3 47 | 1 25 | 24 43 | 1 30 | 21 28 | 0 24 | 20 38 | 0 3 | 23 10 | 0 7 | 21 32 | 1 20 | 12 37 | 9 51 | 7 51 | 7 44 | 20 50 | 2 43 | 3 9 |
| W18 | 9 31 | 25 8 | 3 49 | 20 10 | 3 7 | 4 16 | 1 24 | 24 45 | 1 30 | 21 30 | 0 24 | 20 37 | 0 3 | 23 11 | 0 7 | 21 32 | 1 20 | 12 37 | 9 51 | 7 51 | 7 43 | 20 47 | 2 46 | 3 9 |
| T 19 | 9 53 | 27 39 | 4 34 | 20 18 | 3 6 | 4 46 | 1 23 | 24 48 | 1 30 | 21 32 | 0 24 | 20 37 | 0 3 | 23 11 | 0 7 | 21 33 | 1 20 | 12 36 | 9 51 | 7 50 | 7 42 | 20 45 | 2 49 | 3 9 |
| F 20 | 10 14 | 28 30 | 5 4 | 20 23 | 3 5 | 5 16 | 1 22 | 24 50 | 1 30 | 21 34 | 0 24 | 20 36 | 0 3 | 23 11 | 0 7 | 21 33 | 1 20 | 12 36 | 9 51 | 7 50 | 7 41 | 20 42 | 2 52 | 3 8 |
| S 21 | 10 36 | 27 33 | 5 16 | 20 26 | 3 2 | 5 45 | 1 21 | 24 52 | 1 30 | 21 36 | 0 24 | 20 36 | 0 3 | 23 11 | 0 7 | 21 33 | 1 20 | 12 36 | 9 51 | 7 50 | 7 40 | 20 40 | 2 56 | 3 8 |
| S 22 | 10 57 | 24 51 | 5 10 | 20 25 | 2 58 | 6 15 | 1 21 | 24 54 | 1 30 | 21 37 | 0 23 | 20 36 | 0 4 | 23 11 | 0 7 | 21 33 | 1 20 | 12 36 | 9 52 | 7 50 | 7 38 | 20 38 | 2 59 | 3 8 |
| M23 | 11 19 | 20 36 | 4 45 | 20 21 | 2 53 | 6 44 | 1 19 | 24 55 | 1 30 | 21 39 | 0 23 | 20 35 | 0 4 | 23 12 | 0 7 | 21 33 | 1 20 | 12 36 | 9 52 | 7 50 | 7 37 | 20 35 | 3 2 | 3 8 |
| T 24 | 11 40 | 15 10 | 4 2 | 20 13 | 2 46 | 7 13 | 1 18 | 24 56 | 1 30 | 21 41 | 0 23 | 20 35 | 0 4 | 23 12 | 0 7 | 21 34 | 1 20 | 12 35 | 9 52 | 7 50 | 7 36 | 20 33 | 3 5 | 3 8 |
| W25 | 12 1 | 8 54 | 3 4 | 20 1 | 2 38 | 7 42 | 1 17 | 24 57 | 1 30 | 21 43 | 0 23 | 20 35 | 0 4 | 23 12 | 0 7 | 21 34 | 1 20 | 12 35 | 9 52 | 7 51 | 7 35 | 20 30 | 3 8 | 3 8 |
| T 26 | 12 21 | 2 11 | 1 54 | 19 45 | 2 28 | 8 11 | 1 16 | 24 58 | 1 30 | 21 45 | 0 23 | 20 35 | 0 4 | 23 12 | 0 7 | 21 34 | 1 20 | 12 35 | 9 52 | 7 51 | 7 34 | 20 28 | 3 11 | 3 8 |
| F 27 | 12 42 | 4n35 | 0 39 | 19 25 | 2 16 | 8 40 | 1 15 | 24 58 | 1 30 | 21 47 | 0 23 | 20 34 | 0 4 | 23 13 | 0 7 | 21 34 | 1 20 | 12 35 | 9 52 | 7 51 | 7 32 | 20 26 | 3 15 | 3 8 |
| S 28 | 13 2 | 11 3 | 0n39 | 19 0 | 2 3 | 9 9 | 1 13 | 24 59 | 1 29 | 21 48 | 0 23 | 20 34 | 0 4 | 23 13 | 0 7 | 21 34 | 1 20 | 12 35 | 9 52 | 7 51 | 7 31 | 20 23 | 3 18 | 3 8 |
| S 29 | 13 22 | 16 53 | 1 52 | 18 31 | 1 48 | 9 37 | 1 12 | 24 59 | 1 29 | 21 50 | 0 23 | 20 34 | 0 4 | 23 13 | 0 7 | 21 35 | 1 20 | 12 34 | 9 52 | 7 51 | 7 30 | 20 21 | 3 21 | 3 8 |
| M30 | 13 42 | 21 46 | 2 58 | 17 58 | 1 31 | 10 5 | 1 11 | 24 58 | 1 29 | 21 52 | 0 22 | 20 34 | 0 4 | 23 13 | 0 7 | 21 35 | 1 20 | 12 34 | 9 52 | 7 50 | 7 29 | 20 18 | 3 24 | 3 7 |
| T 31 | 14 s 2 | 25n25 | 3n53 | 17 s21 | 1 s13 | 10 s33 | 1n 9 | 24 s58 | 1 s29 | 21 s54 | 0n22 | 20n34 | 0n 5 | 23 s13 | 0 s 7 | 21 s35 | 1n20 | 12n34 | 9 s52 | 7n49 | 7n28 | 20n16 | 3 s27 | 3 s 7 |

Julian Day Number = 2324348.5, Delta T = 42.09 sec
Ecliptic obliquity = 23°29'14, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'46, Lahiri = 18°59'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## NOVEMBER 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 40 30 | 8♏29'14 | 20♊19 | 13°R10 | 1♏38 | 2♑39 | 12♐ 8 | 28♋35 | 19♐55 | 17♐37 | 12°R41 | 19°R56 | 18♈58 | 16♌38 | 1♎36 | W 1 |
| T 2 | 2 44 26 | 9°29'27 | 2♋52 | 11♏52 | 2°53 | 3°24 | 12°20 | 28°36 | 19°58 | 17°39 | 12♊40 | 19♈53 | 18°54 | 16°45 | 1°43 | T 2 |
| F 3 | 2 48 23 | 10°29'41 | 15° 8 | 10°33 | 4° 9 | 4°10 | 12°33 | 28°37 | 20° 1 | 17°41 | 12°39 | 19°50 | 18°51 | 16°52 | 1°51 | F 3 |
| S 4 | 2 52 19 | 11°29'58 | 27°12 | 9°14 | 5°24 | 4°55 | 12°45 | 28°38 | 20° 4 | 17°43 | 12°38 | 19°48 | 18°48 | 16°58 | 1°59 | S 4 |
| S 5 | 2 56 16 | 12°30'17 | 9♌ 7 | 7°59 | 6°39 | 5°40 | 12°58 | 28°38 | 20° 7 | 17°45 | 12°37 | 19°D47 | 18°45 | 17° 5 | 2° 6 | S 5 |
| M 6 | 3 0 12 | 13°30'38 | 20°59 | 6°49 | 7°55 | 6°25 | 13°11 | 28°39 | 20°10 | 17°47 | 12°36 | 19°48 | 18°42 | 17°12 | 2°14 | M 6 |
| T 7 | 3 4 9 | 14°31'00 | 2♍52 | 5°47 | 9°10 | 7°11 | 13°23 | 28°39 | 20°13 | 17°49 | 12°35 | 19°49 | 18°39 | 17°18 | 2°21 | T 7 |
| W 8 | 3 8 6 | 15°31'25 | 14°50 | 4°54 | 10°25 | 7°56 | 13°36 | 28°39 | 20°16 | 17°51 | 12°34 | 19°50 | 18°35 | 17°25 | 2°29 | W 8 |
| T 9 | 3 12 2 | 16°31'51 | 27° 0 | 4°12 | 11°41 | 8°42 | 13°49 | 28°40 | 20°19 | 17°53 | 12°33 | 19°52 | 18°32 | 17°32 | 2°36 | T 9 |
| F 10 | 3 15 59 | 17°32'19 | 9♎23 | 3°41 | 12°56 | 9°28 | 14° 2 | 28°R40 | 20°23 | 17°55 | 12°32 | 19°54 | 18°29 | 17°39 | 2°43 | F 10 |
| S 11 | 3 19 55 | 18°32'49 | 22° 5 | 3°22 | 14°12 | 10°13 | 14°15 | 28°40 | 20°26 | 17°57 | 12°31 | 19°R54 | 18°26 | 17°45 | 2°50 | S 11 |
| S 12 | 3 23 52 | 19°33'21 | 5♏ 5 | 3°D15 | 15°27 | 10°59 | 14°28 | 28°39 | 20°29 | 17°59 | 12°30 | 19°53 | 18°23 | 17°52 | 2°58 | S 12 |
| M13 | 3 27 48 | 20°33'55 | 18°25 | 3°19 | 16°43 | 11°45 | 14°41 | 28°39 | 20°32 | 18° 1 | 12°29 | 19°50 | 18°19 | 17°59 | 3° 5 | M13 |
| T 14 | 3 31 45 | 21°34'30 | 2♐ 4 | 3°34 | 17°58 | 12°30 | 14°54 | 28°39 | 20°36 | 18° 3 | 12°28 | 19°46 | 18°16 | 18° 5 | 3°12 | T 14 |
| W15 | 3 35 41 | 22°35'06 | 15°58 | 3°58 | 19°13 | 13°16 | 15° 7 | 28°38 | 20°39 | 18° 5 | 12°27 | 19°41 | 18°13 | 18°12 | 3°19 | W15 |
| T 16 | 3 39 38 | 23°35'44 | 0♑ 4 | 4°31 | 20°29 | 14° 2 | 15°20 | 28°38 | 20°42 | 18° 7 | 12°26 | 19°36 | 18°10 | 18°19 | 3°26 | T 16 |
| F 17 | 3 43 35 | 24°36'24 | 14°17 | 5°12 | 21°44 | 14°48 | 15°33 | 28°37 | 20°45 | 18° 9 | 12°24 | 19°31 | 18° 7 | 18°26 | 3°32 | F 17 |
| S 18 | 3 47 31 | 25°37'04 | 28°33 | 6° 0 | 23° 0 | 15°34 | 15°46 | 28°36 | 20°49 | 18°11 | 12°23 | 19°27 | 18° 4 | 18°32 | 3°39 | S 18 |
| S 19 | 3 51 28 | 26°37'46 | 12♒48 | 6°54 | 24°15 | 16°20 | 16° 0 | 28°35 | 20°52 | 18°13 | 12°22 | 19°24 | 18° 0 | 18°39 | 3°46 | S 19 |
| M20 | 3 55 24 | 27°38'29 | 26°59 | 7°53 | 25°31 | 17° 6 | 16°13 | 28°34 | 20°56 | 18°16 | 12°21 | 19°D23 | 17°57 | 18°46 | 3°53 | M20 |
| T 21 | 3 59 21 | 28°39'12 | 11♓ 5 | 8°58 | 26°46 | 17°53 | 16°26 | 28°33 | 20°59 | 18°18 | 12°20 | 19°24 | 17°54 | 18°52 | 3°59 | T 21 |
| W22 | 4 3 17 | 29°39'57 | 25° 3 | 10° 6 | 28° 2 | 18°39 | 16°40 | 28°32 | 21° 2 | 18°20 | 12°19 | 19°25 | 17°51 | 18°59 | 4° 6 | W22 |
| T 23 | 4 7 14 | 0♐40'42 | 8♈54 | 11°18 | 29°17 | 19°25 | 16°53 | 28°30 | 21° 6 | 18°22 | 12°18 | 19°27 | 17°48 | 19° 6 | 4°12 | T 23 |
| F 24 | 4 11 10 | 1°41'29 | 22°36 | 12°33 | 0♐33 | 20°11 | 17° 6 | 28°29 | 21° 9 | 18°24 | 12°17 | 19°R27 | 17°45 | 19°12 | 4°18 | F 24 |
| S 25 | 4 15 7 | 2°42'17 | 6♉ 9 | 13°51 | 1°48 | 20°57 | 17°20 | 28°27 | 21°13 | 18°26 | 12°15 | 19°26 | 17°41 | 19°19 | 4°24 | S 25 |
| S 26 | 4 19 4 | 3°43'05 | 19°31 | 15°11 | 3° 4 | 21°44 | 17°33 | 28°25 | 21°16 | 18°29 | 12°14 | 19°22 | 17°38 | 19°26 | 4°31 | S 26 |
| M27 | 4 23 0 | 4°43'55 | 2♊40 | 16°32 | 4°19 | 22°30 | 17°47 | 28°23 | 21°20 | 18°31 | 12°13 | 19°16 | 17°35 | 19°33 | 4°37 | M27 |
| T 28 | 4 26 57 | 5°44'47 | 15°37 | 17°56 | 5°35 | 23°17 | 18° 0 | 28°22 | 21°23 | 18°33 | 12°12 | 19° 9 | 17°32 | 19°39 | 4°43 | T 28 |
| W29 | 4 30 53 | 6°45'39 | 28°18 | 19°20 | 6°50 | 24° 3 | 18°14 | 28°19 | 21°27 | 18°35 | 12°11 | 19° 0 | 17°29 | 19°46 | 4°49 | W29 |
| T 30 | 4 34 50 | 7♐46'33 | 10♋46 | 20♏46 | 8♐ 6 | 24♑49 | 18♐27 | 28♋17 | 21♐31 | 18♐38 | 12♊10 | 18♈50 | 17♈25 | 19♌53 | 4♎54 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14 s22 | 27n41 | 4n34 | 16 s41 | 0 s54 | 11 s 0 | 1n 8 | 24 s57 | 1 s29 | 21 s55 | 0n22 | 20n34 | 0n 5 | 23 s14 | 0 s 7 | 21 s35 | 1n20 | 12n34 | 9 s53 | 7n48 | 7n26 | 20n13 | 3 s30 | 3 s 7 |
| T 2 | 14 41 | 28 28 | 5 1 | 15 58 | 0 34 | 11 28 | 1 6 | 24 55 | 1 29 | 21 57 | 0 22 | 20 34 | 0 5 | 23 14 | 0 8 | 21 35 | 1 20 | 12 34 | 9 53 | 7 47 | 7 25 | 20 11 | 3 33 | 3 7 |
| F 3 | 15 0 | 27 49 | 5 14 | 15 13 | 0 13 | 11 55 | 1 4 | 24 54 | 1 29 | 21 59 | 0 22 | 20 33 | 0 5 | 23 14 | 0 8 | 21 36 | 1 20 | 12 33 | 9 53 | 7 46 | 7 24 | 20 8 | 3 36 | 3 7 |
| S 4 | 15 19 | 25 52 | 5 12 | 14 29 | 0n 8 | 12 22 | 1 3 | 24 52 | 1 29 | 22 1 | 0 22 | 20 33 | 0 5 | 23 14 | 0 8 | 21 36 | 1 20 | 12 33 | 9 53 | 7 46 | 7 23 | 20 6 | 3 39 | 3 7 |
| S 5 | 15 37 | 22 47 | 4 57 | 13 46 | 0 28 | 12 48 | 1 1 | 24 50 | 1 28 | 22 2 | 0 22 | 20 33 | 0 5 | 23 15 | 0 8 | 21 36 | 1 20 | 12 33 | 9 53 | 7 45 | 7 22 | 20 4 | 3 42 | 3 7 |
| M 6 | 15 56 | 18 47 | 4 29 | 13 5 | 0 47 | 13 14 | 0 59 | 24 48 | 1 28 | 22 4 | 0 22 | 20 33 | 0 5 | 23 15 | 0 8 | 21 36 | 1 20 | 12 33 | 9 53 | 7 45 | 7 20 | 20 1 | 3 45 | 3 7 |
| T 7 | 16 14 | 14 3 | 3 50 | 12 27 | 1 5 | 13 40 | 0 58 | 24 45 | 1 28 | 22 6 | 0 21 | 20 33 | 0 5 | 23 15 | 0 8 | 21 36 | 1 20 | 12 33 | 9 53 | 7 46 | 7 19 | 19 59 | 3 48 | 3 7 |
| W 8 | 16 31 | 8 46 | 3 1 | 11 54 | 1 22 | 14 6 | 0 56 | 24 43 | 1 28 | 22 7 | 0 21 | 20 34 | 0 5 | 23 15 | 0 8 | 21 37 | 1 20 | 12 32 | 9 53 | 7 46 | 7 18 | 19 56 | 3 51 | 3 7 |
| T 9 | 16 49 | 3 4 | 2 2 | 11 26 | 1 36 | 14 31 | 0 54 | 24 40 | 1 28 | 22 9 | 0 21 | 20 34 | 0 6 | 23 16 | 0 8 | 21 37 | 1 20 | 12 32 | 9 53 | 7 47 | 7 17 | 19 54 | 3 54 | 3 7 |
| F 10 | 17 6 | 2 s51 | 0 57 | 11 4 | 1 49 | 14 56 | 0 52 | 24 36 | 1 28 | 22 11 | 0 21 | 20 34 | 0 6 | 23 16 | 0 8 | 21 37 | 1 19 | 12 32 | 9 53 | 7 48 | 7 16 | 19 51 | 3 56 | 3 7 |
| S 11 | 17 23 | 8 48 | 0 s12 | 10 47 | 1 59 | 15 20 | 0 50 | 24 33 | 1 27 | 22 12 | 0 21 | 20 34 | 0 6 | 23 16 | 0 8 | 21 37 | 1 19 | 12 32 | 9 53 | 7 48 | 7 14 | 19 49 | 3 59 | 3 7 |
| S 12 | 17 39 | 14 32 | 1 22 | 10 37 | 2 8 | 15 44 | 0 48 | 24 29 | 1 27 | 22 14 | 0 21 | 20 34 | 0 6 | 23 16 | 0 8 | 21 37 | 1 19 | 12 32 | 9 53 | 7 47 | 7 13 | 19 46 | 4 2 | 3 7 |
| M13 | 17 56 | 19 44 | 2 30 | 10 32 | 2 15 | 16 8 | 0 46 | 24 25 | 1 27 | 22 16 | 0 21 | 20 34 | 0 6 | 23 16 | 0 8 | 21 38 | 1 19 | 12 32 | 9 53 | 7 46 | 7 12 | 19 44 | 4 5 | 3 7 |
| T 14 | 18 12 | 24 3 | 3 30 | 10 32 | 2 20 | 16 31 | 0 44 | 24 20 | 1 27 | 22 17 | 0 21 | 20 34 | 0 6 | 23 17 | 0 8 | 21 38 | 1 19 | 12 31 | 9 53 | 7 45 | 7 11 | 19 41 | 4 8 | 3 7 |
| W15 | 18 27 | 27 2 | 4 19 | 10 37 | 2 24 | 16 54 | 0 42 | 24 15 | 1 26 | 22 19 | 0 21 | 20 35 | 0 6 | 23 17 | 0 8 | 21 38 | 1 19 | 12 31 | 9 53 | 7 43 | 7 9 | 19 39 | 4 10 | 3 7 |
| T 16 | 18 43 | 28 22 | 4 53 | 10 46 | 2 26 | 17 16 | 0 40 | 24 10 | 1 26 | 22 20 | 0 20 | 20 35 | 0 6 | 23 17 | 0 8 | 21 38 | 1 19 | 12 31 | 9 53 | 7 41 | 7 8 | 19 36 | 4 13 | 3 7 |
| F 17 | 18 58 | 27 51 | 5 10 | 10 59 | 2 26 | 17 38 | 0 37 | 24 5 | 1 26 | 22 22 | 0 20 | 20 35 | 0 6 | 23 17 | 0 8 | 21 38 | 1 19 | 12 31 | 9 53 | 7 39 | 7 7 | 19 33 | 4 16 | 3 7 |
| S 18 | 19 12 | 25 30 | 5 7 | 11 15 | 2 26 | 17 59 | 0 35 | 24 0 | 1 26 | 22 23 | 0 20 | 20 35 | 0 7 | 23 18 | 0 8 | 21 39 | 1 19 | 12 31 | 9 53 | 7 37 | 7 6 | 19 31 | 4 19 | 3 7 |
| S 19 | 19 26 | 21 34 | 4 45 | 11 34 | 2 25 | 18 20 | 0 33 | 23 54 | 1 25 | 22 25 | 0 20 | 20 36 | 0 7 | 23 18 | 0 8 | 21 39 | 1 19 | 12 31 | 9 53 | 7 36 | 7 5 | 19 28 | 4 21 | 3 7 |
| M20 | 19 40 | 16 24 | 4 7 | 11 56 | 2 22 | 18 41 | 0 31 | 23 48 | 1 25 | 22 26 | 0 20 | 20 36 | 0 7 | 23 18 | 0 8 | 21 39 | 1 19 | 12 30 | 9 54 | 7 36 | 7 3 | 19 26 | 4 24 | 3 7 |
| T 21 | 19 54 | 10 24 | 3 13 | 12 19 | 2 19 | 19 1 | 0 29 | 23 41 | 1 25 | 22 28 | 0 20 | 20 36 | 0 7 | 23 18 | 0 8 | 21 39 | 1 19 | 12 30 | 9 54 | 7 36 | 7 2 | 19 23 | 4 26 | 3 7 |
| W22 | 20 7 | 3 56 | 2 8 | 12 44 | 2 15 | 19 20 | 0 26 | 23 35 | 1 25 | 22 29 | 0 20 | 20 37 | 0 7 | 23 19 | 0 8 | 21 40 | 1 19 | 12 30 | 9 54 | 7 37 | 7 1 | 19 21 | 4 29 | 3 7 |
| T 23 | 20 20 | 2n40 | 0 57 | 13 11 | 2 10 | 19 39 | 0 24 | 23 28 | 1 24 | 22 31 | 0 20 | 20 37 | 0 7 | 23 19 | 0 8 | 21 40 | 1 19 | 12 30 | 9 54 | 7 37 | 7 0 | 19 18 | 4 32 | 3 7 |
| F 24 | 20 32 | 9 5 | 0n17 | 13 39 | 2 5 | 19 57 | 0 22 | 23 21 | 1 24 | 22 32 | 0 20 | 20 38 | 0 7 | 23 19 | 0 8 | 21 40 | 1 19 | 12 30 | 9 54 | 7 38 | 6 59 | 19 16 | 4 34 | 3 7 |
| S 25 | 20 45 | 15 0 | 1 29 | 14 7 | 2 0 | 20 15 | 0 19 | 23 14 | 1 24 | 22 34 | 0 19 | 20 38 | 0 7 | 23 19 | 0 8 | 21 40 | 1 19 | 12 30 | 9 54 | 7 37 | 6 57 | 19 13 | 4 37 | 3 7 |
| S 26 | 20 56 | 20 8 | 2 35 | 14 36 | 1 54 | 20 32 | 0 17 | 23 6 | 1 23 | 22 35 | 0 19 | 20 38 | 0 7 | 23 20 | 0 8 | 21 40 | 1 19 | 12 30 | 9 54 | 7 36 | 6 56 | 19 10 | 4 39 | 3 7 |
| M27 | 21 8 | 24 12 | 3 32 | 15 6 | 1 48 | 20 49 | 0 15 | 22 58 | 1 23 | 22 36 | 0 19 | 20 39 | 0 8 | 23 20 | 0 8 | 21 41 | 1 19 | 12 30 | 9 54 | 7 33 | 6 55 | 19 8 | 4 41 | 3 7 |
| T 28 | 21 18 | 26 57 | 4 16 | 15 35 | 1 41 | 21 4 | 0 12 | 22 50 | 1 23 | 22 38 | 0 19 | 20 39 | 0 8 | 23 20 | 0 8 | 21 41 | 1 19 | 12 29 | 9 54 | 7 31 | 6 54 | 19 5 | 4 44 | 3 7 |
| W29 | 21 29 | 28 16 | 4 47 | 16 5 | 1 35 | 21 20 | 0 10 | 22 42 | 1 22 | 22 39 | 0 19 | 20 40 | 0 8 | 23 20 | 0 8 | 21 41 | 1 19 | 12 29 | 9 53 | 7 27 | 6 52 | 19 3 | 4 46 | 3 7 |
| T 30 | 21 s39 | 28n 5 | 5n 3 | 16 s34 | 1n28 | 21 s35 | 0n 8 | 22 s33 | 1 s22 | 22 s40 | 0n19 | 20n40 | 0n 8 | 23 s21 | 0 s 8 | 21 s41 | 1n19 | 12n29 | 9 s53 | 7n24 | 6n51 | 19n 0 | 4 s49 | 3 s 7 |

Julian Day Number = 2324379.5, Delta T = 42.03 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'50, Lahiri = 18°59'51Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1651
# geocentric

## DECEMBER 1651 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 38 46 | 8♐47'27 | 23♋ 0 | 22♏13 | 9♐21 | 25♑36 | 18♐41 | 28°R15 | 21♐34 | 18♐40 | 12°R 9 | 18°R41 | 17♈22 | 19♌59 | 5♎ 0 | F 1 |
| S 2 | 4 42 43 | 9°48'23 | 5♌ 2 | 23°41 | 10°37 | 26°22 | 18°55 | 28♋13 | 21°38 | 18°42 | 12♊ 7 | 18♈34 | 17°19 | 20° 6 | 5° 6 | S 2 |
| S 3 | 4 46 40 | 10°49'20 | 16°57 | 25° 9 | 11°52 | 27° 9 | 19° 8 | 28°10 | 21°41 | 18°44 | 12° 6 | 18°29 | 17°16 | 20°13 | 5°11 | S 3 |
| M 4 | 4 50 36 | 11°50'18 | 28°47 | 26°38 | 13° 7 | 27°56 | 19°22 | 28° 8 | 21°45 | 18°47 | 12° 5 | 18°25 | 17°13 | 20°20 | 5°17 | M 4 |
| T 5 | 4 54 33 | 12°51'18 | 10♍38 | 28° 8 | 14°23 | 28°42 | 19°36 | 28° 5 | 21°48 | 18°49 | 12° 4 | 18°D24 | 17°10 | 20°26 | 5°22 | T 5 |
| W 6 | 4 58 29 | 13°52'18 | 22°35 | 29°38 | 15°38 | 29°29 | 19°49 | 28° 2 | 21°52 | 18°51 | 12° 3 | 18°24 | 17° 6 | 20°33 | 5°27 | W 6 |
| T 7 | 5 2 26 | 14°53'20 | 4♎42 | 1♐ 8 | 16°54 | 0♒15 | 20° 3 | 27°59 | 21°56 | 18°53 | 12° 2 | 18°25 | 17° 3 | 20°40 | 5°33 | T 7 |
| F 8 | 5 6 22 | 15°54'22 | 17° 6 | 2°39 | 18° 9 | 1° 2 | 20°17 | 27°57 | 21°59 | 18°56 | 12° 0 | 18°R26 | 17° 0 | 20°46 | 5°38 | F 8 |
| S 9 | 5 10 19 | 16°55'26 | 29°51 | 4°10 | 19°25 | 1°49 | 20°30 | 27°53 | 22° 3 | 18°58 | 11°59 | 18°25 | 16°57 | 20°53 | 5°43 | S 9 |
| S 10 | 5 14 15 | 17°56'31 | 12♏59 | 5°42 | 20°40 | 2°36 | 20°44 | 27°50 | 22° 7 | 19° 0 | 11°58 | 18°23 | 16°54 | 21° 0 | 5°48 | S 10 |
| M11 | 5 18 12 | 18°57'37 | 26°33 | 7°13 | 21°56 | 3°22 | 20°58 | 27°47 | 22°10 | 19° 2 | 11°57 | 18°17 | 16°51 | 21° 6 | 5°52 | M11 |
| T 12 | 5 22 9 | 19°58'43 | 10♐32 | 8°45 | 23°11 | 4° 9 | 21°11 | 27°44 | 22°14 | 19° 5 | 11°56 | 18° 9 | 16°47 | 21°13 | 5°57 | T 12 |
| W13 | 5 26 5 | 20°59'50 | 24°52 | 10°17 | 24°27 | 4°56 | 21°25 | 27°40 | 22°17 | 19° 7 | 11°55 | 18° 0 | 16°44 | 21°20 | 6° 2 | W13 |
| T 14 | 5 30 2 | 22° 0'58 | 9♑27 | 11°50 | 25°42 | 5°43 | 21°39 | 27°37 | 22°21 | 19° 9 | 11°54 | 17°49 | 16°41 | 21°27 | 6° 6 | T 14 |
| F 15 | 5 33 58 | 23° 2'06 | 24°10 | 13°22 | 26°58 | 6°30 | 21°53 | 27°33 | 22°25 | 19°11 | 11°52 | 17°39 | 16°38 | 21°33 | 6°11 | F 15 |
| S 16 | 5 37 55 | 24° 3'15 | 8♒52 | 14°55 | 28°13 | 7°16 | 22° 6 | 27°30 | 22°28 | 19°14 | 11°51 | 17°30 | 16°35 | 21°40 | 6°15 | S 16 |
| S 17 | 5 41 51 | 25° 4'24 | 23°27 | 16°27 | 29°29 | 8° 3 | 22°20 | 27°26 | 22°32 | 19°16 | 11°50 | 17°24 | 16°31 | 21°47 | 6°19 | S 17 |
| M18 | 5 45 48 | 26° 5'33 | 7♓49 | 18° 0 | 0♑44 | 8°50 | 22°34 | 27°22 | 22°36 | 19°18 | 11°49 | 17°20 | 16°28 | 21°53 | 6°23 | M18 |
| T 19 | 5 49 44 | 27° 6'41 | 21°57 | 19°34 | 2° 0 | 9°37 | 22°47 | 27°18 | 22°39 | 19°20 | 11°48 | 17°D19 | 16°25 | 22° 0 | 6°27 | T 19 |
| W20 | 5 53 41 | 28° 7'50 | 5♈48 | 21° 7 | 3°15 | 10°24 | 23° 1 | 27°14 | 22°43 | 19°23 | 11°47 | 17°19 | 16°22 | 22° 7 | 6°31 | W20 |
| T 21 | 5 57 38 | 29° 8'59 | 19°24 | 22°41 | 4°31 | 11°11 | 23°15 | 27°10 | 22°46 | 19°25 | 11°46 | 17°R19 | 16°19 | 22°13 | 6°35 | T 21 |
| F 22 | 6 1 34 | 0♑10'08 | 2♉46 | 24°15 | 5°46 | 11°58 | 23°29 | 27° 6 | 22°50 | 19°27 | 11°45 | 17°18 | 16°16 | 22°20 | 6°38 | F 22 |
| S 23 | 6 5 31 | 1°11'17 | 15°56 | 25°49 | 7° 2 | 12°45 | 23°42 | 27° 2 | 22°54 | 19°29 | 11°44 | 17°15 | 16°12 | 22°27 | 6°42 | S 23 |
| S 24 | 6 9 27 | 2°12'27 | 28°55 | 27°23 | 8°17 | 13°32 | 23°56 | 26°58 | 22°57 | 19°32 | 11°42 | 17° 9 | 16° 9 | 22°33 | 6°45 | S 24 |
| M25 | 6 13 24 | 3°13'36 | 11♊43 | 28°58 | 9°33 | 14°19 | 24°10 | 26°54 | 23° 1 | 19°34 | 11°41 | 16°59 | 16° 6 | 22°40 | 6°49 | M25 |
| T 26 | 6 17 20 | 4°14'45 | 24°20 | 0♑33 | 10°48 | 15° 6 | 24°23 | 26°49 | 23° 4 | 19°36 | 11°40 | 16°48 | 16° 3 | 22°47 | 6°52 | T 26 |
| W27 | 6 21 17 | 5°15'54 | 6♋47 | 2° 8 | 12° 4 | 15°52 | 24°37 | 26°45 | 23° 8 | 19°38 | 11°39 | 16°34 | 16° 0 | 22°54 | 6°55 | W27 |
| T 28 | 6 25 14 | 6°17'04 | 19° 5 | 3°44 | 13°19 | 16°39 | 24°51 | 26°41 | 23°12 | 19°41 | 11°38 | 16°19 | 15°57 | 23° 0 | 6°58 | T 28 |
| F 29 | 6 29 10 | 7°18'13 | 1♌12 | 5°20 | 14°34 | 17°26 | 25° 4 | 26°36 | 23°15 | 19°43 | 11°37 | 16° 6 | 15°53 | 23° 7 | 7° 1 | F 29 |
| S 30 | 6 33 7 | 8°19'23 | 13°11 | 6°56 | 15°50 | 18°13 | 25°18 | 26°32 | 23°19 | 19°45 | 11°36 | 15°53 | 15°50 | 23°14 | 7° 4 | S 30 |
| S 31 | 6 37 3 | 9♑20'32 | 25♌ 3 | 8♑33 | 17♑ 5 | 19♒ 0 | 25♐31 | 26♋27 | 23♐22 | 19♐47 | 11♊35 | 15♈44 | 15♈47 | 23♌20 | 7♎ 6 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s49 | 26n33 | 5n 6 | 17s 3 | 1n21 | 21s49 | 0n 5 | 22s24 | 1s22 | 22s41 | 0n19 | 20n41 | 0n 8 | 23s21 | 0s 8 | 21s41 | 1n19 | 12n29 | 9s53 | 7n20 | 6n50 | 18n57 | 4s51 | 3s 7 |
| S 2 | 21 58 | 23 48 | 4 54 | 17 32 | 1 14 | 22 2 | 0 3 | 22 15 | 1 21 | 22 43 | 0 19 | 20 42 | 0 8 | 23 21 | 0 8 | 21 42 | 1 19 | 12 29 | 9 53 | 7 17 | 6 49 | 18 55 | 4 53 | 3 7 |
| S 3 | 22 7 | 20 4 | 4 30 | 18 1 | 1 6 | 22 15 | 0 0 | 22 5 | 1 21 | 22 44 | 0 19 | 20 42 | 0 8 | 23 21 | 0 8 | 21 42 | 1 19 | 12 29 | 9 53 | 7 15 | 6 48 | 18 52 | 4 55 | 3 7 |
| M 4 | 22 15 | 15 34 | 3 54 | 18 29 | 0 59 | 22 27 | 0s 2 | 21 56 | 1 20 | 22 45 | 0 19 | 20 43 | 0 8 | 23 21 | 0 8 | 21 42 | 1 19 | 12 29 | 9 53 | 7 14 | 6 46 | 18 50 | 4 58 | 3 7 |
| T 5 | 22 23 | 10 30 | 3 8 | 18 56 | 0 52 | 22 39 | 0 4 | 21 46 | 1 20 | 22 46 | 0 18 | 20 44 | 0 9 | 23 22 | 0 8 | 21 42 | 1 19 | 12 29 | 9 53 | 7 14 | 6 45 | 18 47 | 5 0 | 3 7 |
| W 6 | 22 31 | 5 0 | 2 14 | 19 23 | 0 45 | 22 49 | 0 7 | 21 36 | 1 20 | 22 47 | 0 18 | 20 44 | 0 9 | 23 22 | 0 8 | 21 42 | 1 19 | 12 29 | 9 53 | 7 14 | 6 44 | 18 44 | 5 2 | 3 7 |
| T 7 | 22 38 | 0s45 | 1 13 | 19 49 | 0 37 | 23 0 | 0 9 | 21 25 | 1 19 | 22 49 | 0 18 | 20 45 | 0 9 | 23 22 | 0 8 | 21 43 | 1 19 | 12 28 | 9 53 | 7 14 | 6 43 | 18 42 | 5 4 | 3 7 |
| F 8 | 22 44 | 6 37 | 0 7 | 20 15 | 0 30 | 23 9 | 0 12 | 21 15 | 1 19 | 22 50 | 0 18 | 20 46 | 0 9 | 23 22 | 0 8 | 21 43 | 1 19 | 12 28 | 9 53 | 7 14 | 6 42 | 18 39 | 5 6 | 3 7 |
| S 9 | 22 51 | 12 23 | 1s 1 | 20 39 | 0 23 | 23 18 | 0 14 | 21 4 | 1 18 | 22 51 | 0 18 | 20 46 | 0 9 | 23 23 | 0 8 | 21 43 | 1 19 | 12 28 | 9 53 | 7 14 | 6 40 | 18 36 | 5 8 | 3 7 |
| S 10 | 22 56 | 17 47 | 2 7 | 21 3 | 0 15 | 23 26 | 0 16 | 20 53 | 1 18 | 22 52 | 0 18 | 20 47 | 0 9 | 23 23 | 0 8 | 21 43 | 1 19 | 12 28 | 9 53 | 7 13 | 6 39 | 18 34 | 5 10 | 3 7 |
| M11 | 23 2 | 22 29 | 3 9 | 21 25 | 0 8 | 23 33 | 0 19 | 20 42 | 1 18 | 22 53 | 0 18 | 20 48 | 0 9 | 23 23 | 0 8 | 21 43 | 1 19 | 12 28 | 9 53 | 7 11 | 6 38 | 18 31 | 5 12 | 3 7 |
| T 12 | 23 6 | 26 2 | 4 1 | 21 47 | 0 1 | 23 40 | 0 21 | 20 30 | 1 17 | 22 54 | 0 18 | 20 49 | 0 9 | 23 23 | 0 8 | 21 44 | 1 19 | 12 28 | 9 53 | 7 8 | 6 37 | 18 28 | 5 14 | 3 7 |
| W13 | 23 11 | 28 2 | 4 39 | 22 8 | 0s 6 | 23 46 | 0 23 | 20 19 | 1 17 | 22 55 | 0 18 | 20 49 | 0 9 | 23 23 | 0 8 | 21 44 | 1 19 | 12 28 | 9 53 | 7 4 | 6 35 | 18 26 | 5 16 | 3 7 |
| T 14 | 23 15 | 28 8 | 4 59 | 22 28 | 0 13 | 23 51 | 0 26 | 20 7 | 1 16 | 22 56 | 0 18 | 20 50 | 0 10 | 23 24 | 0 8 | 21 44 | 1 19 | 12 28 | 9 53 | 7 0 | 6 34 | 18 23 | 5 18 | 3 7 |
| F 15 | 23 18 | 26 15 | 5 1 | 22 46 | 0 20 | 23 55 | 0 28 | 19 54 | 1 16 | 22 57 | 0 18 | 20 51 | 0 10 | 23 24 | 0 8 | 21 44 | 1 19 | 12 28 | 9 53 | 6 56 | 6 33 | 18 20 | 5 19 | 3 7 |
| S 16 | 23 21 | 22 37 | 4 42 | 23 4 | 0 26 | 23 59 | 0 30 | 19 42 | 1 15 | 22 58 | 0 17 | 20 52 | 0 10 | 23 24 | 0 8 | 21 44 | 1 19 | 12 28 | 9 53 | 6 53 | 6 32 | 18 18 | 5 21 | 3 7 |
| S 17 | 23 24 | 17 35 | 4 5 | 23 20 | 0 33 | 24 2 | 0 32 | 19 30 | 1 15 | 22 59 | 0 17 | 20 53 | 0 10 | 23 24 | 0 8 | 21 44 | 1 19 | 12 28 | 9 52 | 6 51 | 6 31 | 18 15 | 5 23 | 3 7 |
| M18 | 23 26 | 11 38 | 3 13 | 23 36 | 0 39 | 24 4 | 0 35 | 19 17 | 1 14 | 22 59 | 0 17 | 20 54 | 0 10 | 23 25 | 0 8 | 21 45 | 1 19 | 12 28 | 9 52 | 6 49 | 6 29 | 18 12 | 5 25 | 3 8 |
| T 19 | 23 27 | 5 12 | 2 10 | 23 50 | 0 45 | 24 5 | 0 37 | 19 4 | 1 14 | 23 0 | 0 17 | 20 54 | 0 10 | 23 25 | 0 8 | 21 45 | 1 19 | 12 28 | 9 52 | 6 49 | 6 28 | 18 10 | 5 26 | 3 8 |
| W20 | 23 28 | 1n23 | 1 1 | 24 3 | 0 52 | 24 6 | 0 39 | 18 51 | 1 13 | 23 1 | 0 17 | 20 55 | 0 10 | 23 25 | 0 8 | 21 45 | 1 19 | 12 28 | 9 52 | 6 49 | 6 27 | 18 7 | 5 28 | 3 8 |
| T 21 | 23 29 | 7 47 | 0n11 | 24 14 | 0 58 | 24 6 | 0 41 | 18 37 | 1 13 | 23 2 | 0 17 | 20 56 | 0 10 | 23 25 | 0 8 | 21 45 | 1 19 | 12 28 | 9 52 | 6 49 | 6 26 | 18 4 | 5 29 | 3 8 |
| F 22 | 23 29 | 13 44 | 1 21 | 24 25 | 1 3 | 24 5 | 0 43 | 18 24 | 1 12 | 23 3 | 0 17 | 20 57 | 0 11 | 23 25 | 0 8 | 21 45 | 1 19 | 12 28 | 9 52 | 6 48 | 6 24 | 18 2 | 5 31 | 3 8 |
| S 23 | 23 29 | 18 58 | 2 25 | 24 34 | 1 9 | 24 3 | 0 45 | 18 10 | 1 12 | 23 3 | 0 17 | 20 58 | 0 11 | 23 26 | 0 8 | 21 46 | 1 19 | 12 27 | 9 52 | 6 47 | 6 23 | 17 59 | 5 32 | 3 8 |
| S 24 | 23 28 | 23 13 | 3 21 | 24 42 | 1 14 | 24 1 | 0 48 | 17 56 | 1 11 | 23 4 | 0 17 | 20 59 | 0 11 | 23 26 | 0 8 | 21 46 | 1 19 | 12 27 | 9 52 | 6 45 | 6 22 | 17 56 | 5 34 | 3 8 |
| M25 | 23 27 | 26 17 | 4 6 | 24 48 | 1 19 | 23 58 | 0 50 | 17 42 | 1 11 | 23 5 | 0 17 | 21 0 | 0 11 | 23 26 | 0 8 | 21 46 | 1 19 | 12 27 | 9 52 | 6 41 | 6 21 | 17 53 | 5 35 | 3 8 |
| T 26 | 23 25 | 27 59 | 4 37 | 24 54 | 1 24 | 23 54 | 0 52 | 17 28 | 1 10 | 23 5 | 0 17 | 21 1 | 0 11 | 23 26 | 0 8 | 21 46 | 1 19 | 12 27 | 9 51 | 6 37 | 6 20 | 17 51 | 5 36 | 3 8 |
| W27 | 23 23 | 28 14 | 4 55 | 24 57 | 1 29 | 23 50 | 0 54 | 17 13 | 1 10 | 23 6 | 0 17 | 21 2 | 0 11 | 23 26 | 0 8 | 21 46 | 1 19 | 12 27 | 9 51 | 6 31 | 6 18 | 17 48 | 5 38 | 3 8 |
| T 28 | 23 20 | 27 4 | 4 59 | 25 0 | 1 34 | 23 44 | 0 55 | 16 58 | 1 9 | 23 7 | 0 16 | 21 3 | 0 11 | 23 27 | 0 8 | 21 46 | 1 19 | 12 27 | 9 51 | 6 26 | 6 17 | 17 45 | 5 39 | 3 8 |
| F 29 | 23 17 | 24 38 | 4 50 | 25 1 | 1 38 | 23 38 | 0 57 | 16 44 | 1 9 | 23 7 | 0 16 | 21 4 | 0 11 | 23 27 | 0 8 | 21 47 | 1 19 | 12 27 | 9 51 | 6 21 | 6 16 | 17 43 | 5 40 | 3 8 |
| S 30 | 23 13 | 21 9 | 4 27 | 25 0 | 1 42 | 23 32 | 0 59 | 16 29 | 1 8 | 23 8 | 0 16 | 21 5 | 0 11 | 23 27 | 0 8 | 21 47 | 1 19 | 12 27 | 9 51 | 6 16 | 6 15 | 17 40 | 5 41 | 3 8 |
| S 31 | 23s 9 | 16n51 | 3n53 | 24s58 | 1s46 | 23s24 | 1s 1 | 16s14 | 1s 8 | 23s 8 | 0n16 | 21n 6 | 0n12 | 23s27 | 0s 8 | 21s47 | 1n19 | 12n27 | 9s51 | 6n12 | 6n13 | 17n37 | 5s42 | 3s 8 |

Julian Day Number = 2324409.5, Delta T = 41.98 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'54, Lahiri = 18°59'55Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## JANUARY 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 41 0 | 10♑21'42 | 6♍52 | 10♑10 | 18♑21 | 19♒47 | 25♐45 | 26°R22 | 23♐26 | 19♐49 | 11°R34 | 15°R37 | 15♈44 | 23♌27 | 7♎ 9 | M 1 |
| T 2 | 6 44 56 | 11°22'51 | 18°41 | 11°48 | 19°36 | 20°34 | 25°58 | 26♋18 | 23°29 | 19°51 | 11♊33 | 15♈33 | 15°41 | 23°34 | 7°11 | T 2 |
| W 3 | 6 48 53 | 12°24'01 | 0♎35 | 13°26 | 20°51 | 21°21 | 26°12 | 26°13 | 23°33 | 19°54 | 11°32 | 15°31 | 15°37 | 23°40 | 7°14 | W 3 |
| T 4 | 6 52 49 | 13°25'11 | 12°39 | 15° 4 | 22° 7 | 22° 8 | 26°25 | 26° 8 | 23°36 | 19°56 | 11°31 | 15°31 | 15°34 | 23°47 | 7°16 | T 4 |
| F 5 | 6 56 46 | 14°26'21 | 24°58 | 16°43 | 23°22 | 22°55 | 26°39 | 26° 4 | 23°40 | 19°58 | 11°30 | 15°31 | 15°31 | 23°54 | 7°18 | F 5 |
| S 6 | 7 0 43 | 15°27'31 | 7♏39 | 18°22 | 24°37 | 23°42 | 26°52 | 25°59 | 23°43 | 20° 0 | 11°29 | 15°29 | 15°28 | 24° 1 | 7°20 | S 6 |
| S 7 | 7 4 39 | 16°28'40 | 20°46 | 20° 1 | 25°53 | 24°29 | 27° 6 | 25°54 | 23°47 | 20° 2 | 11°28 | 15°26 | 15°25 | 24° 7 | 7°22 | S 7 |
| M 8 | 7 8 36 | 17°29'50 | 4♐21 | 21°41 | 27° 8 | 25°16 | 27°19 | 25°49 | 23°50 | 20° 4 | 11°27 | 15°20 | 15°22 | 24°14 | 7°23 | M 8 |
| T 9 | 7 12 32 | 18°31'00 | 18°26 | 23°22 | 28°24 | 26° 3 | 27°32 | 25°44 | 23°53 | 20° 6 | 11°27 | 15°12 | 15°18 | 24°21 | 7°25 | T 9 |
| W10 | 7 16 29 | 19°32'09 | 2♑57 | 25° 3 | 29°39 | 26°50 | 27°45 | 25°39 | 23°57 | 20° 8 | 11°26 | 15° 1 | 15°15 | 24°27 | 7°26 | W10 |
| T 11 | 7 20 25 | 20°33'18 | 17°50 | 26°44 | 0♒54 | 27°37 | 27°59 | 25°34 | 24° 0 | 20°10 | 11°25 | 14°49 | 15°12 | 24°34 | 7°28 | T 11 |
| F 12 | 7 24 22 | 21°34'27 | 2♒56 | 28°26 | 2°10 | 28°23 | 28°12 | 25°29 | 24° 4 | 20°12 | 11°24 | 14°37 | 15° 9 | 24°41 | 7°29 | F 12 |
| S 13 | 7 28 18 | 22°35'35 | 18° 3 | 0♒ 8 | 3°25 | 29°10 | 28°25 | 25°24 | 24° 7 | 20°14 | 11°23 | 14°27 | 15° 6 | 24°47 | 7°30 | S 13 |
| S 14 | 7 32 15 | 23°36'42 | 3♓ 2 | 1°50 | 4°40 | 29°57 | 28°38 | 25°20 | 24°10 | 20°16 | 11°22 | 14°19 | 15° 3 | 24°54 | 7°31 | S 14 |
| M15 | 7 36 12 | 24°37'48 | 17°46 | 3°32 | 5°56 | 0♓44 | 28°51 | 25°15 | 24°13 | 20°18 | 11°22 | 14°14 | 14°59 | 25° 1 | 7°32 | M15 |
| T 16 | 7 40 8 | 25°38'53 | 2♈ 8 | 5°15 | 7°11 | 1°31 | 29° 4 | 25°10 | 24°17 | 20°20 | 11°21 | 14°12 | 14°56 | 25° 7 | 7°32 | T 16 |
| W17 | 7 44 5 | 26°39'57 | 16° 6 | 6°57 | 8°26 | 2°18 | 29°17 | 25° 5 | 24°20 | 20°22 | 11°20 | 14°D12 | 14°53 | 25°14 | 7°33 | W17 |
| T 18 | 7 48 1 | 27°41'01 | 29°43 | 8°40 | 9°41 | 3° 5 | 29°30 | 25° 0 | 24°23 | 20°24 | 11°19 | 14°R12 | 14°50 | 25°21 | 7°34 | T 18 |
| F 19 | 7 51 58 | 28°42'03 | 12♉59 | 10°22 | 10°57 | 3°51 | 29°43 | 24°55 | 24°26 | 20°26 | 11°18 | 14°11 | 14°47 | 25°28 | 7°34 | F 19 |
| S 20 | 7 55 54 | 29°43'04 | 25°57 | 12° 4 | 12°12 | 4°38 | 29°56 | 24°50 | 24°29 | 20°28 | 11°18 | 14° 8 | 14°43 | 25°34 | 7°34 | S 20 |
| S 21 | 7 59 51 | 0♒44'04 | 8♊40 | 13°46 | 13°27 | 5°25 | 0♑ 9 | 24°45 | 24°33 | 20°30 | 11°17 | 14° 3 | 14°40 | 25°41 | 7°R34 | S 21 |
| M22 | 8 3 47 | 1°45'03 | 21°12 | 15°27 | 14°42 | 6°12 | 0°22 | 24°40 | 24°36 | 20°31 | 11°16 | 13°54 | 14°37 | 25°48 | 7°34 | M22 |
| T 23 | 8 7 44 | 2°46'01 | 3♋33 | 17° 6 | 15°57 | 6°58 | 0°34 | 24°35 | 24°39 | 20°33 | 11°16 | 13°43 | 14°34 | 25°54 | 7°34 | T 23 |
| W24 | 8 11 41 | 3°46'58 | 15°46 | 18°44 | 17°12 | 7°45 | 0°47 | 24°30 | 24°42 | 20°35 | 11°15 | 13°30 | 14°31 | 26° 1 | 7°34 | W24 |
| T 25 | 8 15 37 | 4°47'54 | 27°51 | 20°21 | 18°28 | 8°32 | 1° 0 | 24°25 | 24°45 | 20°37 | 11°14 | 13°17 | 14°28 | 26° 8 | 7°34 | T 25 |
| F 26 | 8 19 34 | 5°48'48 | 9♌50 | 21°55 | 19°43 | 9°19 | 1°12 | 24°21 | 24°48 | 20°38 | 11°14 | 13° 4 | 14°24 | 26°14 | 7°33 | F 26 |
| S 27 | 8 23 30 | 6°49'42 | 21°44 | 23°27 | 20°58 | 10° 5 | 1°25 | 24°16 | 24°51 | 20°40 | 11°13 | 12°52 | 14°21 | 26°21 | 7°32 | S 27 |
| S 28 | 8 27 27 | 7°50'35 | 3♍34 | 24°56 | 22°13 | 10°52 | 1°37 | 24°11 | 24°54 | 20°42 | 11°13 | 12°43 | 14°18 | 26°28 | 7°32 | S 28 |
| M29 | 8 31 23 | 8°51'26 | 15°23 | 26°20 | 23°28 | 11°38 | 1°49 | 24° 6 | 24°56 | 20°44 | 11°12 | 12°36 | 14°15 | 26°34 | 7°31 | M29 |
| T 30 | 8 35 20 | 9°52'17 | 27°12 | 27°41 | 24°43 | 12°25 | 2° 2 | 24° 2 | 24°59 | 20°45 | 11°11 | 12°33 | 14°12 | 26°41 | 7°30 | T 30 |
| W31 | 8 39 16 | 10♒53'06 | 9♎ 7 | 28♒56 | 25♒58 | 13♓11 | 2♑14 | 23♋57 | 25♐ 2 | 20♐47 | 11♊11 | 12°D31 | 14♈ 9 | 26♌48 | 7♎29 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat |
| M 1 | 23s 5 | 11n56 | 3n 9 | 24s55 | 1s49 | 23s16 | 1s 3 | 15s58 | 1s 7 | 23s 9 | 0n16 | 21n 7 | 0n12 | 23s27 | 0s 8 | 21s47 | 1n19 | 12n27 | 9s51 | 6n 9 | 6n12 | 17n34 | 5s44 | 3s 8 |
| T 2 | 23 0 | 6 35 | 2 17 | 24 50 | 1 53 | 23 7 | 1 4 | 15 43 | 1 6 | 23 10 | 0 16 | 21 8 | 0 12 | 23 28 | 0 8 | 21 47 | 1 19 | 12 27 | 9 51 | 6 8 | 6 11 | 17 32 | 5 45 | 3 8 |
| W 3 | 22 54 | 0 58 | 1 18 | 24 43 | 1 55 | 22 57 | 1 6 | 15 27 | 1 6 | 23 10 | 0 16 | 21 9 | 0 12 | 23 28 | 0 8 | 21 47 | 1 19 | 12 28 | 9 50 | 6 7 | 6 10 | 17 29 | 5 46 | 3 9 |
| T 4 | 22 49 | 4s46 | 0 15 | 24 35 | 1 58 | 22 47 | 1 8 | 15 11 | 1 5 | 23 10 | 0 16 | 21 10 | 0 12 | 23 28 | 0 8 | 21 47 | 1 19 | 12 28 | 9 50 | 6 7 | 6 8 | 17 26 | 5 46 | 3 9 |
| F 5 | 22 42 | 10 28 | 0s50 | 24 26 | 2 0 | 22 36 | 1 9 | 14 55 | 1 5 | 23 11 | 0 16 | 21 11 | 0 12 | 23 28 | 0 8 | 21 48 | 1 19 | 12 28 | 9 50 | 6 7 | 6 7 | 17 23 | 5 47 | 3 9 |
| S 6 | 22 35 | 15 53 | 1 54 | 24 15 | 2 2 | 22 24 | 1 11 | 14 39 | 1 4 | 23 11 | 0 16 | 21 12 | 0 12 | 23 28 | 0 8 | 21 48 | 1 19 | 12 28 | 9 50 | 6 7 | 6 6 | 17 20 | 5 48 | 3 9 |
| S 7 | 22 28 | 20 47 | 2 55 | 24 2 | 2 4 | 22 12 | 1 12 | 14 23 | 1 4 | 23 12 | 0 16 | 21 13 | 0 12 | 23 28 | 0 8 | 21 48 | 1 19 | 12 28 | 9 50 | 6 5 | 6 5 | 17 18 | 5 49 | 3 9 |
| M 8 | 22 20 | 24 47 | 3 47 | 23 47 | 2 5 | 21 59 | 1 14 | 14 7 | 1 3 | 23 12 | 0 16 | 21 14 | 0 12 | 23 29 | 0 8 | 21 48 | 1 19 | 12 28 | 9 50 | 6 3 | 6 4 | 17 15 | 5 50 | 3 9 |
| T 9 | 22 12 | 27 26 | 4 28 | 23 31 | 2 6 | 21 45 | 1 15 | 13 50 | 1 2 | 23 12 | 0 15 | 21 15 | 0 13 | 23 29 | 0 8 | 21 48 | 1 19 | 12 28 | 9 49 | 6 0 | 6 2 | 17 12 | 5 50 | 3 9 |
| W10 | 22 4 | 28 21 | 4 54 | 23 14 | 2 6 | 21 31 | 1 16 | 13 34 | 1 2 | 23 13 | 0 15 | 21 16 | 0 13 | 23 29 | 0 8 | 21 48 | 1 19 | 12 28 | 9 49 | 5 56 | 6 1 | 17 9 | 5 51 | 3 9 |
| T 11 | 21 55 | 27 15 | 5 0 | 22 55 | 2 6 | 21 16 | 1 18 | 13 17 | 1 1 | 23 13 | 0 15 | 21 17 | 0 13 | 23 29 | 0 8 | 21 48 | 1 19 | 12 28 | 9 49 | 5 51 | 6 0 | 17 7 | 5 52 | 3 9 |
| F 12 | 21 45 | 24 10 | 4 45 | 22 34 | 2 5 | 21 0 | 1 19 | 13 0 | 1 1 | 23 13 | 0 15 | 21 18 | 0 13 | 23 29 | 0 8 | 21 49 | 1 19 | 12 28 | 9 49 | 5 46 | 5 59 | 17 4 | 5 52 | 3 9 |
| S 13 | 21 35 | 19 25 | 4 11 | 22 11 | 2 4 | 20 44 | 1 20 | 12 43 | 1 0 | 23 14 | 0 15 | 21 19 | 0 13 | 23 29 | 0 8 | 21 49 | 1 19 | 12 28 | 9 49 | 5 42 | 5 57 | 17 1 | 5 53 | 3 9 |
| S 14 | 21 25 | 13 30 | 3 19 | 21 47 | 2 3 | 20 27 | 1 21 | 12 26 | 0 59 | 23 14 | 0 15 | 21 20 | 0 13 | 23 30 | 0 8 | 21 49 | 1 19 | 12 28 | 9 48 | 5 39 | 5 56 | 16 58 | 5 53 | 3 9 |
| M15 | 21 14 | 6 55 | 2 15 | 21 21 | 2 1 | 20 9 | 1 22 | 12 9 | 0 59 | 23 14 | 0 15 | 21 21 | 0 13 | 23 30 | 0 8 | 21 49 | 1 19 | 12 28 | 9 48 | 5 37 | 5 55 | 16 55 | 5 53 | 3 9 |
| T 16 | 21 3 | 0 7 | 1 3 | 20 54 | 1 58 | 19 51 | 1 23 | 11 52 | 0 58 | 23 14 | 0 15 | 21 22 | 0 13 | 23 30 | 0 8 | 21 49 | 1 19 | 12 28 | 9 48 | 5 37 | 5 54 | 16 53 | 5 54 | 3 9 |
| W17 | 20 52 | 6n30 | 0n10 | 20 25 | 1 55 | 19 33 | 1 24 | 11 34 | 0 58 | 23 14 | 0 15 | 21 23 | 0 13 | 23 30 | 0 8 | 21 49 | 1 19 | 12 28 | 9 48 | 5 36 | 5 53 | 16 50 | 5 54 | 3 9 |
| T 18 | 20 40 | 12 40 | 1 21 | 19 55 | 1 51 | 19 14 | 1 25 | 11 17 | 0 57 | 23 14 | 0 15 | 21 24 | 0 14 | 23 30 | 0 8 | 21 49 | 1 19 | 12 28 | 9 48 | 5 37 | 5 51 | 16 47 | 5 54 | 3 9 |
| F 19 | 20 28 | 18 5 | 2 26 | 19 23 | 1 47 | 18 54 | 1 26 | 10 59 | 0 56 | 23 15 | 0 15 | 21 25 | 0 14 | 23 30 | 0 8 | 21 49 | 1 19 | 12 29 | 9 48 | 5 36 | 5 50 | 16 44 | 5 54 | 3 9 |
| S 20 | 20 15 | 22 33 | 3 22 | 18 50 | 1 41 | 18 33 | 1 27 | 10 42 | 0 56 | 23 15 | 0 15 | 21 26 | 0 14 | 23 30 | 0 8 | 21 50 | 1 19 | 12 29 | 9 47 | 5 35 | 5 49 | 16 41 | 5 55 | 3 9 |
| S 21 | 20 2 | 25 51 | 4 6 | 18 15 | 1 36 | 18 13 | 1 27 | 10 24 | 0 55 | 23 15 | 0 15 | 21 27 | 0 14 | 23 31 | 0 8 | 21 50 | 1 19 | 12 29 | 9 47 | 5 33 | 5 48 | 16 38 | 5 55 | 3 10 |
| M22 | 19 49 | 27 49 | 4 38 | 17 39 | 1 29 | 17 51 | 1 28 | 10 6 | 0 54 | 23 15 | 0 14 | 21 28 | 0 14 | 23 31 | 0 8 | 21 50 | 1 19 | 12 29 | 9 47 | 5 30 | 5 46 | 16 36 | 5 55 | 3 10 |
| T 23 | 19 35 | 28 23 | 4 56 | 17 2 | 1 22 | 17 30 | 1 28 | 9 48 | 0 54 | 23 15 | 0 14 | 21 29 | 0 14 | 23 31 | 0 8 | 21 50 | 1 19 | 12 29 | 9 47 | 5 25 | 5 45 | 16 33 | 5 55 | 3 10 |
| W24 | 19 21 | 27 32 | 5 1 | 16 24 | 1 14 | 17 7 | 1 29 | 9 30 | 0 53 | 23 15 | 0 14 | 21 30 | 0 14 | 23 31 | 0 8 | 21 50 | 1 19 | 12 29 | 9 46 | 5 20 | 5 44 | 16 30 | 5 55 | 3 10 |
| T 25 | 19 6 | 25 24 | 4 52 | 15 45 | 1 5 | 16 44 | 1 29 | 9 12 | 0 52 | 23 15 | 0 14 | 21 31 | 0 14 | 23 31 | 0 8 | 21 50 | 1 19 | 12 29 | 9 46 | 5 15 | 5 43 | 16 27 | 5 54 | 3 10 |
| F 26 | 18 51 | 22 9 | 4 30 | 15 6 | 0 55 | 16 21 | 1 30 | 8 54 | 0 52 | 23 15 | 0 14 | 21 32 | 0 14 | 23 31 | 0 8 | 21 50 | 1 19 | 12 29 | 9 46 | 5 10 | 5 41 | 16 24 | 5 54 | 3 10 |
| S 27 | 18 36 | 18 0 | 3 56 | 14 26 | 0 45 | 15 57 | 1 30 | 8 35 | 0 51 | 23 15 | 0 14 | 21 33 | 0 15 | 23 31 | 0 8 | 21 50 | 1 19 | 12 30 | 9 46 | 5 6 | 5 40 | 16 21 | 5 54 | 3 10 |
| S 28 | 18 21 | 13 12 | 3 12 | 13 46 | 0 33 | 15 33 | 1 30 | 8 17 | 0 51 | 23 15 | 0 14 | 21 34 | 0 15 | 23 32 | 0 8 | 21 50 | 1 19 | 12 30 | 9 46 | 5 2 | 5 39 | 16 18 | 5 54 | 3 10 |
| M29 | 18 5 | 7 55 | 2 19 | 13 6 | 0 21 | 15 9 | 1 30 | 7 59 | 0 50 | 23 15 | 0 14 | 21 34 | 0 15 | 23 32 | 0 8 | 21 50 | 1 19 | 12 30 | 9 45 | 4 59 | 5 38 | 16 16 | 5 53 | 3 10 |
| T 30 | 17 49 | 2 21 | 1 21 | 12 26 | 0 8 | 14 44 | 1 30 | 7 40 | 0 49 | 23 14 | 0 14 | 21 35 | 0 15 | 23 32 | 0 8 | 21 51 | 1 19 | 12 30 | 9 45 | 4 58 | 5 37 | 16 13 | 5 53 | 3 10 |
| W31 | 17s32 | 3s21 | 0n18 | 11s47 | 0n 5 | 14s18 | 1s31 | 7s22 | 0s49 | 23s14 | 0n14 | 21n36 | 0n15 | 23s32 | 0s 8 | 21s51 | 1n19 | 12n30 | 9s45 | 4n57 | 5n35 | 16n10 | 5s53 | 3s10 |

Julian Day Number = 2324440.5, Delta T = 41.92 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°52'59, Lahiri = 18°59'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## FEBRUARY 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 43 13 | 11♒53'55 | 21♎11 | 0♓ 6 | 27♒13 | 13♓58 | 2♑26 | 23°R52 | 25♐ 5 | 20♐48 | 11°R10 | 12♈32 | 14♈ 5 | 26♌54 | 7°R28 | T 1 |
| F 2 | 8 47 10 | 12°54'43 | 3♏28 | 1° 8 | 28°28 | 14°44 | 2°38 | 23♋48 | 25° 8 | 20°50 | 11♊10 | 12°32 | 14° 2 | 27° 1 | 7♎26 | F 2 |
| S 3 | 8 51 6 | 13°55'29 | 16° 4 | 2° 4 | 29°43 | 15°31 | 2°50 | 23°43 | 25°10 | 20°52 | 11° 9 | 12°R33 | 13°59 | 27° 8 | 7°25 | S 3 |
| S 4 | 8 55 3 | 14°56'15 | 29° 4 | 2°51 | 0♓58 | 16°17 | 3° 2 | 23°39 | 25°13 | 20°53 | 11° 9 | 12°32 | 13°56 | 27°15 | 7°23 | S 4 |
| M 5 | 8 58 59 | 15°57'00 | 12♐32 | 3°30 | 2°13 | 17° 4 | 3°14 | 23°35 | 25°16 | 20°55 | 11° 9 | 12°28 | 13°53 | 27°21 | 7°22 | M 5 |
| T 6 | 9 2 56 | 16°57'44 | 26°29 | 3°59 | 3°28 | 17°50 | 3°26 | 23°30 | 25°18 | 20°56 | 11° 8 | 12°23 | 13°49 | 27°28 | 7°20 | T 6 |
| W 7 | 9 6 52 | 17°58'27 | 10♑56 | 4°18 | 4°43 | 18°37 | 3°37 | 23°26 | 25°21 | 20°58 | 11° 8 | 12°16 | 13°46 | 27°35 | 7°18 | W 7 |
| T 8 | 9 10 49 | 18°59'08 | 25°48 | 4°R27 | 5°57 | 19°23 | 3°49 | 23°22 | 25°23 | 20°59 | 11° 7 | 12° 7 | 13°43 | 27°41 | 7°16 | T 8 |
| F 9 | 9 14 46 | 19°59'48 | 10♒59 | 4°25 | 7°12 | 20° 9 | 4° 1 | 23°18 | 25°26 | 21° 0 | 11° 7 | 11°59 | 13°40 | 27°48 | 7°14 | F 9 |
| S 10 | 9 18 42 | 21° 0'27 | 26°17 | 4°12 | 8°27 | 20°55 | 4°12 | 23°13 | 25°28 | 21° 2 | 11° 7 | 11°51 | 13°37 | 27°55 | 7°12 | S 10 |
| S 11 | 9 22 39 | 22° 1'04 | 11♓31 | 3°50 | 9°42 | 21°42 | 4°24 | 23° 9 | 25°31 | 21° 3 | 11° 7 | 11°46 | 13°34 | 28° 1 | 7°10 | S 11 |
| M12 | 9 26 35 | 23° 1'39 | 26°32 | 3°17 | 10°57 | 22°28 | 4°35 | 23° 6 | 25°33 | 21° 4 | 11° 6 | 11°43 | 13°30 | 28° 8 | 7° 7 | M12 |
| T 13 | 9 30 32 | 24° 2'13 | 11♈12 | 2°36 | 12°11 | 23°14 | 4°46 | 23° 2 | 25°35 | 21° 6 | 11° 6 | 11°D42 | 13°27 | 28°15 | 7° 5 | T 13 |
| W14 | 9 34 28 | 25° 2'45 | 25°26 | 1°46 | 13°26 | 24° 0 | 4°57 | 22°58 | 25°38 | 21° 7 | 11° 6 | 11°42 | 13°24 | 28°21 | 7° 2 | W14 |
| T 15 | 9 38 25 | 26° 3'15 | 9♉14 | 0°50 | 14°41 | 24°46 | 5° 8 | 22°54 | 25°40 | 21° 8 | 11° 6 | 11°44 | 13°21 | 28°28 | 6°59 | T 15 |
| F 16 | 9 42 21 | 27° 3'43 | 22°35 | 29♒50 | 15°56 | 25°32 | 5°19 | 22°50 | 25°42 | 21° 9 | 11° 5 | 11°R45 | 13°18 | 28°35 | 6°56 | F 16 |
| S 17 | 9 46 18 | 28° 4'09 | 5♊34 | 28°45 | 17°10 | 26°18 | 5°30 | 22°47 | 25°44 | 21°10 | 11° 5 | 11°44 | 13°15 | 28°41 | 6°54 | S 17 |
| S 18 | 9 50 14 | 29° 4'33 | 18°14 | 27°39 | 18°25 | 27° 4 | 5°41 | 22°43 | 25°46 | 21°12 | 11° 5 | 11°42 | 13°11 | 28°48 | 6°51 | S 18 |
| M19 | 9 54 11 | 0♓ 4'56 | 0♋37 | 26°33 | 19°39 | 27°50 | 5°52 | 22°40 | 25°48 | 21°13 | 11° 5 | 11°38 | 13° 8 | 28°55 | 6°47 | M19 |
| T 20 | 9 58 8 | 1° 5'16 | 12°49 | 25°29 | 20°54 | 28°36 | 6° 2 | 22°37 | 25°50 | 21°14 | 11° 5 | 11°33 | 13° 5 | 29° 2 | 6°44 | T 20 |
| W21 | 10 2 4 | 2° 5'35 | 24°52 | 24°27 | 22° 8 | 29°22 | 6°13 | 22°33 | 25°52 | 21°15 | 11° 5 | 11°26 | 13° 2 | 29° 8 | 6°41 | W21 |
| T 22 | 10 6 1 | 3° 5'52 | 6♌49 | 23°30 | 23°23 | 0♈ 8 | 6°23 | 22°30 | 25°54 | 21°16 | 11° 5 | 11°18 | 12°59 | 29°15 | 6°38 | T 22 |
| F 23 | 10 9 57 | 4° 6'06 | 18°41 | 22°38 | 24°37 | 0°54 | 6°33 | 22°27 | 25°56 | 21°17 | 11° 5 | 11°11 | 12°55 | 29°22 | 6°34 | F 23 |
| S 24 | 10 13 54 | 5° 6'19 | 0♍31 | 21°52 | 25°52 | 1°40 | 6°44 | 22°24 | 25°58 | 21°18 | 11°D 5 | 11° 5 | 12°52 | 29°28 | 6°31 | S 24 |
| S 25 | 10 17 50 | 6° 6'30 | 12°21 | 21°12 | 27° 6 | 2°25 | 6°54 | 22°21 | 26° 0 | 21°19 | 11° 5 | 11° 0 | 12°49 | 29°35 | 6°27 | S 25 |
| M26 | 10 21 47 | 7° 6'39 | 24°13 | 20°39 | 28°20 | 3°11 | 7° 4 | 22°18 | 26° 1 | 21°19 | 11° 5 | 10°56 | 12°46 | 29°42 | 6°23 | M26 |
| T 27 | 10 25 43 | 8° 6'47 | 6♎ 8 | 20°14 | 29°35 | 3°57 | 7°13 | 22°16 | 26° 3 | 21°20 | 11° 5 | 10°D55 | 12°43 | 29°48 | 6°20 | T 27 |
| W28 | 10 29 40 | 9° 6'52 | 18° 8 | 19°55 | 0♈49 | 4°42 | 7°23 | 22°13 | 26° 5 | 21°21 | 11° 5 | 10°55 | 12°40 | 29°55 | 6°16 | W28 |
| T 29 | 10 33 37 | 10♓ 6'56 | 0♏18 | 19♒43 | 2♈ 3 | 5♈28 | 7♑33 | 22♋11 | 26♐ 6 | 21♐22 | 11♊ 5 | 10♈56 | 12♈36 | 0♍ 2 | 6♎12 | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s15 | 8s59 | 0s46 | 11s 9 | 0n20 | 13s53 | 1s30 | 7s 3 | 0s48 | 23s14 | 0n14 | 21n37 | 0n15 | 23s32 | 0s 8 | 21s51 | 1n19 | 12n30 | 9s45 | 4n58 | 5n34 | 16n 7 | 5s52 | 3s10 |
| F 2 | 16 58 | 14 25 | 1 50 | 10 33 | 0 35 | 13 27 | 1 30 | 6 45 | 0 47 | 23 14 | 0 14 | 21 38 | 0 15 | 23 32 | 0 8 | 21 51 | 1 20 | 12 30 | 9 44 | 4 58 | 5 33 | 16 4 | 5 52 | 3 10 |
| S 3 | 16 41 | 19 23 | 2 50 | 9 58 | 0 51 | 13 0 | 1 30 | 6 26 | 0 47 | 23 14 | 0 14 | 21 39 | 0 15 | 23 32 | 0 8 | 21 51 | 1 20 | 12 31 | 9 44 | 4 58 | 5 32 | 16 1 | 5 51 | 3 10 |
| S 4 | 16 23 | 23 37 | 3 43 | 9 26 | 1 7 | 12 33 | 1 30 | 6 8 | 0 46 | 23 14 | 0 13 | 21 40 | 0 15 | 23 32 | 0 8 | 21 51 | 1 20 | 12 31 | 9 44 | 4 58 | 5 30 | 15 58 | 5 50 | 3 10 |
| M 5 | 16 5 | 26 44 | 4 25 | 8 57 | 1 23 | 12 6 | 1 30 | 5 49 | 0 45 | 23 13 | 0 13 | 21 41 | 0 15 | 23 33 | 0 8 | 21 51 | 1 20 | 12 31 | 9 44 | 4 56 | 5 29 | 15 55 | 5 50 | 3 10 |
| T 6 | 15 47 | 28 21 | 4 54 | 8 31 | 1 40 | 11 39 | 1 29 | 5 30 | 0 45 | 23 13 | 0 13 | 21 42 | 0 16 | 23 33 | 0 8 | 21 51 | 1 20 | 12 31 | 9 44 | 4 54 | 5 28 | 15 52 | 5 49 | 3 10 |
| W 7 | 15 28 | 28 7 | 5 6 | 8 9 | 1 56 | 11 11 | 1 29 | 5 11 | 0 44 | 23 13 | 0 13 | 21 42 | 0 16 | 23 33 | 0 8 | 21 51 | 1 20 | 12 31 | 9 43 | 4 51 | 5 27 | 15 50 | 5 48 | 3 10 |
| T 8 | 15 10 | 25 54 | 4 57 | 7 51 | 2 12 | 10 43 | 1 28 | 4 52 | 0 43 | 23 13 | 0 13 | 21 43 | 0 16 | 23 33 | 0 8 | 21 51 | 1 20 | 12 32 | 9 43 | 4 48 | 5 25 | 15 47 | 5 47 | 3 10 |
| F 9 | 14 51 | 21 48 | 4 28 | 7 37 | 2 28 | 10 14 | 1 28 | 4 34 | 0 43 | 23 12 | 0 13 | 21 44 | 0 16 | 23 33 | 0 8 | 21 51 | 1 20 | 12 32 | 9 43 | 4 45 | 5 24 | 15 44 | 5 47 | 3 10 |
| S 10 | 14 31 | 16 13 | 3 39 | 7 27 | 2 43 | 9 46 | 1 27 | 4 15 | 0 42 | 23 12 | 0 13 | 21 45 | 0 16 | 23 33 | 0 8 | 21 51 | 1 20 | 12 32 | 9 43 | 4 42 | 5 23 | 15 41 | 5 46 | 3 10 |
| S 11 | 14 12 | 9 39 | 2 35 | 7 23 | 2 57 | 9 17 | 1 26 | 3 56 | 0 41 | 23 12 | 0 13 | 21 46 | 0 16 | 23 33 | 0 8 | 21 51 | 1 20 | 12 32 | 9 42 | 4 40 | 5 22 | 15 38 | 5 45 | 3 9 |
| M12 | 13 52 | 2 37 | 1 21 | 7 23 | 3 9 | 8 48 | 1 26 | 3 37 | 0 40 | 23 12 | 0 13 | 21 46 | 0 16 | 23 33 | 0 9 | 21 52 | 1 20 | 12 32 | 9 42 | 4 38 | 5 20 | 15 35 | 5 44 | 3 9 |
| T 13 | 13 32 | 4n24 | 0 3 | 7 27 | 3 20 | 8 18 | 1 25 | 3 18 | 0 40 | 23 11 | 0 13 | 21 47 | 0 16 | 23 33 | 0 9 | 21 52 | 1 20 | 12 33 | 9 42 | 4 38 | 5 19 | 15 32 | 5 43 | 3 9 |
| W14 | 13 12 | 11 0 | 1n14 | 7 36 | 3 30 | 7 49 | 1 24 | 2 59 | 0 39 | 23 11 | 0 13 | 21 48 | 0 16 | 23 33 | 0 9 | 21 52 | 1 20 | 12 33 | 9 42 | 4 38 | 5 18 | 15 29 | 5 42 | 3 9 |
| T 15 | 12 52 | 16 51 | 2 23 | 7 49 | 3 37 | 7 19 | 1 23 | 2 40 | 0 38 | 23 11 | 0 13 | 21 48 | 0 16 | 23 33 | 0 9 | 21 52 | 1 20 | 12 33 | 9 41 | 4 39 | 5 17 | 15 26 | 5 40 | 3 9 |
| F 16 | 12 31 | 21 43 | 3 23 | 8 6 | 3 42 | 6 49 | 1 22 | 2 21 | 0 38 | 23 10 | 0 13 | 21 49 | 0 16 | 23 34 | 0 9 | 21 52 | 1 20 | 12 33 | 9 41 | 4 39 | 5 16 | 15 23 | 5 39 | 3 9 |
| S 17 | 12 10 | 25 23 | 4 10 | 8 25 | 3 44 | 6 19 | 1 21 | 2 2 | 0 37 | 23 10 | 0 12 | 21 50 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 33 | 9 41 | 4 39 | 5 14 | 15 20 | 5 38 | 3 9 |
| S 18 | 11 49 | 27 41 | 4 44 | 8 48 | 3 45 | 5 49 | 1 19 | 1 43 | 0 36 | 23 9 | 0 12 | 21 50 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 34 | 9 41 | 4 38 | 5 13 | 15 17 | 5 37 | 3 9 |
| M19 | 11 28 | 28 33 | 5 4 | 9 12 | 3 43 | 5 18 | 1 18 | 1 24 | 0 36 | 23 9 | 0 12 | 21 51 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 34 | 9 40 | 4 37 | 5 12 | 15 14 | 5 35 | 3 9 |
| T 20 | 11 7 | 28 0 | 5 9 | 9 37 | 3 39 | 4 47 | 1 17 | 1 5 | 0 35 | 23 9 | 0 12 | 21 52 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 34 | 9 40 | 4 35 | 5 11 | 15 11 | 5 34 | 3 9 |
| W21 | 10 45 | 26 8 | 5 1 | 10 3 | 3 33 | 4 17 | 1 15 | 0 47 | 0 34 | 23 8 | 0 12 | 21 52 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 34 | 9 40 | 4 32 | 5 9 | 15 8 | 5 33 | 3 9 |
| T 22 | 10 23 | 23 7 | 4 40 | 10 29 | 3 25 | 3 46 | 1 14 | 0 28 | 0 34 | 23 8 | 0 12 | 21 53 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 35 | 9 40 | 4 29 | 5 8 | 15 6 | 5 31 | 3 9 |
| F 23 | 10 1 | 19 9 | 4 6 | 10 55 | 3 16 | 3 15 | 1 13 | 0 9 | 0 33 | 23 7 | 0 12 | 21 54 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 35 | 9 39 | 4 26 | 5 7 | 15 3 | 5 30 | 3 8 |
| S 24 | 9 39 | 14 28 | 3 22 | 11 19 | 3 5 | 2 44 | 1 11 | 0n10 | 0 32 | 23 7 | 0 12 | 21 54 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 35 | 9 39 | 4 23 | 5 6 | 15 0 | 5 28 | 3 8 |
| S 25 | 9 17 | 9 14 | 2 29 | 11 43 | 2 54 | 2 13 | 1 9 | 0 29 | 0 32 | 23 7 | 0 12 | 21 55 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 35 | 9 39 | 4 22 | 5 4 | 14 57 | 5 27 | 3 8 |
| M26 | 8 55 | 3 41 | 1 30 | 12 5 | 2 41 | 1 42 | 1 8 | 0 48 | 0 31 | 23 6 | 0 12 | 21 55 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 36 | 9 39 | 4 20 | 5 3 | 14 54 | 5 25 | 3 8 |
| T 27 | 8 33 | 2s 2 | 0 26 | 12 26 | 2 28 | 1 11 | 1 6 | 1 7 | 0 30 | 23 6 | 0 12 | 21 56 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 36 | 9 38 | 4 20 | 5 2 | 14 51 | 5 24 | 3 8 |
| W28 | 8 10 | 7 44 | 0s39 | 12 45 | 2 15 | 0 39 | 1 4 | 1 25 | 0 29 | 23 5 | 0 12 | 21 56 | 0 17 | 23 34 | 0 9 | 21 52 | 1 20 | 12 36 | 9 38 | 4 20 | 5 1 | 14 48 | 5 22 | 3 8 |
| T 29 | 7s47 | 13s14 | 1s44 | 13s 1 | 2n 1 | 0s 8 | 1s 2 | 1n44 | 0s29 | 23s 5 | 0n12 | 21n57 | 0n18 | 23s35 | 0s 9 | 21s52 | 1n20 | 12n36 | 9s38 | 4n20 | 4n59 | 14n45 | 5s20 | 3s 8 |

Julian Day Number = 2324471.5, Delta T = 41.86 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'03, Lahiri = 19°00'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## MARCH 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 37 33 | 11♓ 6'59 | 12♏40 | 19°D37 | 3♈17 | 6♈13 | 7♉42 | 22°R 8 | 26♐ 8 | 21♐23 | 11♊ 5 | 10♈58 | 12♈33 | 0♍ 8 | 6°R 8 | F 1 |
| S 2 | 10 41 30 | 12° 6'59 | 25°18 | 19♒39 | 4°31 | 6°59 | 7°52 | 22♋ 6 | 26° 9 | 21°23 | 11° 5 | 11° 0 | 12°30 | 0°15 | 6♎ 4 | S 2 |
| S 3 | 10 45 26 | 13° 6'58 | 8♐16 | 19°46 | 5°46 | 7°44 | 8° 1 | 22° 4 | 26°11 | 21°24 | 11° 5 | 11°R 1 | 12°27 | 0°22 | 6° 0 | S 3 |
| M 4 | 10 49 23 | 14° 6'56 | 21°37 | 19°59 | 7° 0 | 8°29 | 8°10 | 22° 2 | 26°12 | 21°25 | 11° 6 | 11° 1 | 12°24 | 0°28 | 5°56 | M 4 |
| T 5 | 10 53 19 | 15° 6'52 | 5♑24 | 20°18 | 8°14 | 9°15 | 8°19 | 22° 0 | 26°14 | 21°25 | 11° 6 | 10°59 | 12°21 | 0°35 | 5°52 | T 5 |
| W 6 | 10 57 16 | 16° 6'46 | 19°37 | 20°42 | 9°28 | 10° 0 | 8°28 | 21°58 | 26°15 | 21°26 | 11° 6 | 10°57 | 12°17 | 0°42 | 5°47 | W 6 |
| T 7 | 11 1 12 | 17° 6'39 | 4♒14 | 21°10 | 10°42 | 10°45 | 8°37 | 21°56 | 26°16 | 21°27 | 11° 6 | 10°54 | 12°14 | 0°48 | 5°43 | T 7 |
| F 8 | 11 5 9 | 18° 6'30 | 19°11 | 21°44 | 11°56 | 11°31 | 8°46 | 21°54 | 26°17 | 21°27 | 11° 7 | 10°50 | 12°11 | 0°55 | 5°39 | F 8 |
| S 9 | 11 9 6 | 19° 6'19 | 4♓20 | 22°21 | 13°10 | 12°16 | 8°54 | 21°53 | 26°19 | 21°28 | 11° 7 | 10°48 | 12° 8 | 1° 2 | 5°34 | S 9 |
| S 10 | 11 13 2 | 20° 6'06 | 19°31 | 23° 3 | 14°23 | 13° 1 | 9° 3 | 21°51 | 26°20 | 21°28 | 11° 7 | 10°46 | 12° 5 | 1° 8 | 5°30 | S 10 |
| M11 | 11 16 59 | 21° 5'51 | 4♈35 | 23°48 | 15°37 | 13°46 | 9°11 | 21°50 | 26°21 | 21°28 | 11° 8 | 10°D45 | 12° 1 | 1°15 | 5°25 | M11 |
| T 12 | 11 20 55 | 22° 5'33 | 19°23 | 24°37 | 16°51 | 14°31 | 9°19 | 21°49 | 26°22 | 21°29 | 11° 8 | 10°45 | 11°58 | 1°22 | 5°21 | T 12 |
| W13 | 11 24 52 | 23° 5'14 | 3♉48 | 25°29 | 18° 5 | 15°16 | 9°27 | 21°47 | 26°23 | 21°29 | 11° 8 | 10°46 | 11°55 | 1°28 | 5°16 | W13 |
| T 14 | 11 28 48 | 24° 4'53 | 17°48 | 26°24 | 19°18 | 16° 1 | 9°35 | 21°46 | 26°24 | 21°30 | 11° 9 | 10°47 | 11°52 | 1°35 | 5°11 | T 14 |
| F 15 | 11 32 45 | 25° 4'29 | 1♊20 | 27°22 | 20°32 | 16°46 | 9°43 | 21°45 | 26°24 | 21°30 | 11° 9 | 10°48 | 11°49 | 1°42 | 5° 7 | F 15 |
| S 16 | 11 36 41 | 26° 4'03 | 14°26 | 28°23 | 21°46 | 17°31 | 9°51 | 21°45 | 26°25 | 21°30 | 11°10 | 10°49 | 11°46 | 1°49 | 5° 2 | S 16 |
| S 17 | 11 40 38 | 27° 3'35 | 27°10 | 29°26 | 22°59 | 18°16 | 9°58 | 21°44 | 26°26 | 21°30 | 11°10 | 10°R49 | 11°42 | 1°55 | 4°57 | S 17 |
| M18 | 11 44 35 | 28° 3'04 | 9♋34 | 0♓32 | 24°13 | 19° 0 | 10° 5 | 21°43 | 26°27 | 21°30 | 11°11 | 10°49 | 11°39 | 2° 2 | 4°53 | M18 |
| T 19 | 11 48 31 | 29° 2'31 | 21°44 | 1°40 | 25°26 | 19°45 | 10°13 | 21°43 | 26°27 | 21°31 | 11°11 | 10°48 | 11°36 | 2° 9 | 4°48 | T 19 |
| W20 | 11 52 28 | 0♈ 1'56 | 3♌43 | 2°50 | 26°40 | 20°30 | 10°20 | 21°42 | 26°28 | 21°31 | 11°12 | 10°47 | 11°33 | 2°15 | 4°43 | W20 |
| T 21 | 11 56 24 | 1° 1'18 | 15°35 | 4° 2 | 27°53 | 21°14 | 10°27 | 21°42 | 26°29 | 21°31 | 11°12 | 10°45 | 11°30 | 2°22 | 4°38 | T 21 |
| F 22 | 12 0 21 | 2° 0'38 | 27°25 | 5°17 | 29° 6 | 21°59 | 10°33 | 21°42 | 26°29 | 21°31 | 11°13 | 10°44 | 11°26 | 2°29 | 4°34 | F 22 |
| S 23 | 12 4 17 | 2°59'56 | 9♍14 | 6°33 | 0♉19 | 22°43 | 10°40 | 21°D42 | 26°29 | 21°R31 | 11°13 | 10°43 | 11°23 | 2°35 | 4°29 | S 23 |
| S 24 | 12 8 14 | 3°59'12 | 21° 6 | 7°52 | 1°33 | 23°28 | 10°47 | 21°42 | 26°30 | 21°31 | 11°14 | 10°42 | 11°20 | 2°42 | 4°24 | S 24 |
| M25 | 12 12 10 | 4°58'25 | 3♎ 3 | 9°12 | 2°46 | 24°12 | 10°53 | 21°42 | 26°30 | 21°31 | 11°15 | 10°42 | 11°17 | 2°49 | 4°19 | M25 |
| T 26 | 12 16 7 | 5°57'37 | 15° 8 | 10°34 | 3°59 | 24°57 | 10°59 | 21°43 | 26°30 | 21°31 | 11°15 | 10°D42 | 11°14 | 2°55 | 4°14 | T 26 |
| W27 | 12 20 4 | 6°56'46 | 27°20 | 11°57 | 5°12 | 25°41 | 11° 5 | 21°43 | 26°31 | 21°31 | 11°16 | 10°42 | 11°11 | 3° 2 | 4°10 | W27 |
| T 28 | 12 24 0 | 7°55'54 | 9♏44 | 13°23 | 6°25 | 26°25 | 11°11 | 21°43 | 26°31 | 21°31 | 11°17 | 10°42 | 11° 7 | 3° 9 | 4° 5 | T 28 |
| F 29 | 12 27 57 | 8°55'00 | 22°20 | 14°49 | 7°38 | 27°10 | 11°17 | 21°44 | 26°31 | 21°30 | 11°17 | 10°42 | 11° 4 | 3°15 | 4° 0 | F 29 |
| S 30 | 12 31 53 | 9°54'04 | 5♐ 9 | 16°18 | 8°51 | 27°54 | 11°22 | 21°45 | 26°31 | 21°30 | 11°18 | 10°43 | 11° 1 | 3°22 | 3°55 | S 30 |
| S 31 | 12 35 50 | 10♈53'06 | 18♐15 | 17♓48 | 10♉ 3 | 28♈38 | 11♉27 | 21♋46 | 26°R31 | 21♐30 | 11♊19 | 10°R43 | 10♈58 | 3♍29 | 3♎50 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 7s25 | 18s18 | 2s45 | 13s16 | 1n47 | 0n23 | 1s 0 | 2n 3 | 0s28 | 23s 4 | 0n12 | 21n57 | 0n18 | 23s35 | 0s 9 | 21s52 | 1n20 | 12n37 | 9s38 | 4n21 | 4n58 | 14n42 | 5s18 | 3s 7 |
| S 2 | 7 2 | 22 41 | 3 40 | 13 29 | 1 33 | 0 55 | 0 58 | 2 21 | 0 27 | 23 4 | 0 11 | 21 58 | 0 18 | 23 35 | 0 9 | 21 52 | 1 20 | 12 37 | 9 37 | 4 22 | 4 57 | 14 39 | 5 17 | 3 7 |
| S 3 | 6 39 | 26 5 | 4 25 | 13 40 | 1 19 | 1 26 | 0 56 | 2 40 | 0 27 | 23 3 | 0 11 | 21 58 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 37 | 9 37 | 4 22 | 4 56 | 14 36 | 5 15 | 3 7 |
| M 4 | 6 16 | 28 9 | 4 57 | 13 49 | 1 5 | 1 57 | 0 54 | 2 59 | 0 26 | 23 3 | 0 11 | 21 59 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 38 | 9 37 | 4 22 | 4 54 | 14 33 | 5 13 | 3 7 |
| T 5 | 5 53 | 28 35 | 5 13 | 13 56 | 0 52 | 2 28 | 0 52 | 3 17 | 0 25 | 23 2 | 0 11 | 21 59 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 38 | 9 37 | 4 21 | 4 53 | 14 30 | 5 11 | 3 7 |
| W 6 | 5 29 | 27 10 | 5 11 | 14 1 | 0 39 | 2 59 | 0 50 | 3 36 | 0 25 | 23 2 | 0 11 | 21 59 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 38 | 9 36 | 4 20 | 4 52 | 14 27 | 5 9 | 3 6 |
| T 7 | 5 6 | 23 54 | 4 49 | 14 4 | 0 26 | 3 31 | 0 48 | 3 54 | 0 24 | 23 1 | 0 11 | 22 0 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 38 | 9 36 | 4 19 | 4 51 | 14 24 | 5 7 | 3 6 |
| F 8 | 4 43 | 19 0 | 4 7 | 14 5 | 0 14 | 4 2 | 0 46 | 4 12 | 0 23 | 23 1 | 0 11 | 22 0 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 39 | 9 36 | 4 18 | 4 49 | 14 21 | 5 5 | 3 6 |
| S 9 | 4 19 | 12 51 | 3 7 | 14 4 | 0 2 | 4 33 | 0 43 | 4 31 | 0 22 | 23 0 | 0 11 | 22 0 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 39 | 9 36 | 4 17 | 4 48 | 14 18 | 5 3 | 3 6 |
| S 10 | 3 56 | 5 55 | 1 54 | 14 1 | 0s10 | 5 3 | 0 41 | 4 49 | 0 22 | 23 0 | 0 11 | 22 1 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 39 | 9 35 | 4 16 | 4 47 | 14 15 | 5 1 | 3 6 |
| M11 | 3 32 | 1n18 | 0 34 | 13 57 | 0 21 | 5 34 | 0 38 | 5 7 | 0 21 | 22 59 | 0 11 | 22 1 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 40 | 9 35 | 4 16 | 4 46 | 14 12 | 4 59 | 3 5 |
| T 12 | 3 9 | 8 20 | 0n48 | 13 51 | 0 32 | 6 5 | 0 36 | 5 25 | 0 20 | 22 59 | 0 11 | 22 1 | 0 18 | 23 35 | 0 9 | 21 52 | 1 21 | 12 40 | 9 35 | 4 16 | 4 45 | 14 9 | 4 57 | 3 5 |
| W13 | 2 45 | 14 45 | 2 4 | 13 43 | 0 42 | 6 35 | 0 33 | 5 43 | 0 20 | 22 58 | 0 11 | 22 1 | 0 19 | 23 35 | 0 9 | 21 52 | 1 21 | 12 40 | 9 35 | 4 16 | 4 43 | 14 6 | 4 55 | 3 5 |
| T 14 | 2 21 | 20 13 | 3 11 | 13 33 | 0 52 | 7 6 | 0 31 | 6 1 | 0 19 | 22 58 | 0 11 | 22 2 | 0 19 | 23 35 | 0 9 | 21 52 | 1 21 | 12 40 | 9 34 | 4 17 | 4 42 | 14 2 | 4 53 | 3 5 |
| F 15 | 1 58 | 24 27 | 4 5 | 13 22 | 1 1 | 7 36 | 0 28 | 6 19 | 0 18 | 22 57 | 0 10 | 22 2 | 0 19 | 23 35 | 0 9 | 21 52 | 1 21 | 12 41 | 9 34 | 4 17 | 4 41 | 13 59 | 4 51 | 3 4 |
| S 16 | 1 34 | 27 16 | 4 44 | 13 10 | 1 10 | 8 6 | 0 26 | 6 37 | 0 18 | 22 57 | 0 10 | 22 2 | 0 19 | 23 35 | 0 9 | 21 52 | 1 21 | 12 41 | 9 34 | 4 17 | 4 40 | 13 56 | 4 49 | 3 4 |
| S 17 | 1 10 | 28 35 | 5 8 | 12 55 | 1 19 | 8 36 | 0 23 | 6 55 | 0 17 | 22 56 | 0 10 | 22 2 | 0 19 | 23 35 | 0 9 | 21 52 | 1 21 | 12 41 | 9 34 | 4 17 | 4 38 | 13 53 | 4 47 | 3 4 |
| M18 | 0 47 | 28 24 | 5 16 | 12 39 | 1 27 | 9 5 | 0 20 | 7 12 | 0 16 | 22 56 | 0 10 | 22 2 | 0 19 | 23 35 | 0 9 | 21 52 | 1 21 | 12 42 | 9 33 | 4 17 | 4 37 | 13 50 | 4 45 | 3 3 |
| T 19 | 0 23 | 26 50 | 5 11 | 12 22 | 1 34 | 9 35 | 0 18 | 7 30 | 0 16 | 22 56 | 0 10 | 22 3 | 0 19 | 23 35 | 0 9 | 21 52 | 1 21 | 12 42 | 9 33 | 4 17 | 4 36 | 13 47 | 4 43 | 3 3 |
| W20 | 0n 1 | 24 5 | 4 52 | 12 3 | 1 41 | 10 4 | 0 15 | 7 48 | 0 15 | 22 55 | 0 10 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 42 | 9 33 | 4 16 | 4 35 | 13 44 | 4 40 | 3 3 |
| T 21 | 0 24 | 20 20 | 4 20 | 11 43 | 1 47 | 10 33 | 0 12 | 8 5 | 0 14 | 22 55 | 0 10 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 43 | 9 33 | 4 16 | 4 33 | 13 41 | 4 38 | 3 2 |
| F 22 | 0 48 | 15 48 | 3 38 | 11 21 | 1 53 | 11 2 | 0 9 | 8 22 | 0 14 | 22 54 | 0 10 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 43 | 9 32 | 4 15 | 4 32 | 13 38 | 4 36 | 3 2 |
| S 23 | 1 12 | 10 41 | 2 46 | 10 58 | 1 59 | 11 30 | 0 7 | 8 39 | 0 13 | 22 54 | 0 10 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 43 | 9 32 | 4 15 | 4 31 | 13 35 | 4 34 | 3 2 |
| S 24 | 1 35 | 5 10 | 1 47 | 10 33 | 2 4 | 11 59 | 0 4 | 8 57 | 0 12 | 22 53 | 0 10 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 43 | 9 32 | 4 15 | 4 30 | 13 32 | 4 31 | 3 1 |
| M25 | 1 59 | 0s34 | 0 42 | 10 7 | 2 9 | 12 26 | 0 1 | 9 14 | 0 11 | 22 53 | 0 10 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 44 | 9 32 | 4 14 | 4 28 | 13 29 | 4 29 | 3 1 |
| T 26 | 2 22 | 6 21 | 0s25 | 9 40 | 2 13 | 12 54 | 0n 2 | 9 31 | 0 11 | 22 52 | 0 10 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 44 | 9 32 | 4 14 | 4 27 | 13 26 | 4 27 | 3 1 |
| W27 | 2 46 | 11 58 | 1 31 | 9 12 | 2 16 | 13 21 | 0 5 | 9 47 | 0 10 | 22 52 | 0 9 | 22 3 | 0 19 | 23 36 | 0 9 | 21 52 | 1 21 | 12 44 | 9 31 | 4 15 | 4 26 | 13 23 | 4 25 | 3 0 |
| T 28 | 3 9 | 17 12 | 2 34 | 8 42 | 2 20 | 13 48 | 0 8 | 10 4 | 0 9 | 22 52 | 0 9 | 22 3 | 0 20 | 23 36 | 0 9 | 21 52 | 1 21 | 12 45 | 9 31 | 4 15 | 4 25 | 13 20 | 4 22 | 3 0 |
| F 29 | 3 32 | 21 47 | 3 31 | 8 10 | 2 22 | 14 15 | 0 11 | 10 21 | 0 9 | 22 51 | 0 9 | 22 3 | 0 20 | 23 36 | 0 9 | 21 52 | 1 22 | 12 45 | 9 31 | 4 15 | 4 23 | 13 17 | 4 20 | 3 0 |
| S 30 | 3 56 | 25 26 | 4 19 | 7 38 | 2 24 | 14 42 | 0 14 | 10 37 | 0 8 | 22 51 | 0 9 | 22 3 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 45 | 9 31 | 4 15 | 4 22 | 13 13 | 4 18 | 2 59 |
| S 31 | 4n19 | 27s50 | 4s53 | 7s 4 | 2s26 | 15n 8 | 0n17 | 10n54 | 0s 7 | 22s50 | 0n 9 | 22n 3 | 0n20 | 23s36 | 0s 9 | 21s51 | 1n22 | 12n46 | 9s30 | 4n15 | 4n21 | 13n10 | 4s16 | 2s59 |

Julian Day Number = 2324500.5, Delta T = 41.80 sec
Ecliptic obliquity = 23°29'14, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'07, Lahiri = 19°00'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## APRIL 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 39 46 | 11♈52'06 | 1♉38 | 19♓20 | 11♉16 | 29♈22 | 11♉33 | 21♋47 | 26°R31 | 21°R30 | 11♊20 | 10°R43 | 10♈55 | 3♍35 | 3°R46 | M 1 |
| T 2 | 12 43 43 | 12°51'05 | 15°20 | 20°53 | 12°29 | 0♉ 6 | 11°38 | 21°48 | 26♐31 | 21♐29 | 11°20 | 10°D42 | 10°52 | 3°42 | 3♎41 | T 2 |
| W 3 | 12 47 39 | 13°50'02 | 29°22 | 22°28 | 13°42 | 0°50 | 11°43 | 21°49 | 26°31 | 21°29 | 11°21 | 10♈43 | 10°48 | 3°49 | 3°36 | W 3 |
| T 4 | 12 51 36 | 14°48'57 | 13♒41 | 24° 4 | 14°54 | 1°34 | 11°47 | 21°50 | 26°31 | 21°29 | 11°22 | 10°43 | 10°45 | 3°55 | 3°32 | T 4 |
| F 5 | 12 55 33 | 15°47'50 | 28°17 | 25°42 | 16° 7 | 2°18 | 11°52 | 21°51 | 26°30 | 21°28 | 11°23 | 10°43 | 10°42 | 4° 2 | 3°27 | F 5 |
| S 6 | 12 59 29 | 16°46'41 | 13♓ 3 | 27°22 | 17°19 | 3° 2 | 11°56 | 21°53 | 26°30 | 21°28 | 11°24 | 10°44 | 10°39 | 4° 9 | 3°22 | S 6 |
| S 7 | 13 3 26 | 17°45'31 | 27°54 | 29° 3 | 18°32 | 3°45 | 12° 0 | 21°55 | 26°30 | 21°27 | 11°25 | 10°44 | 10°36 | 4°15 | 3°18 | S 7 |
| M 8 | 13 7 22 | 18°44'19 | 12♈44 | 0♈46 | 19°44 | 4°29 | 12° 4 | 21°56 | 26°29 | 21°27 | 11°25 | 10°R44 | 10°32 | 4°22 | 3°13 | M 8 |
| T 9 | 13 11 19 | 19°43'05 | 27°23 | 2°30 | 20°56 | 5°13 | 12° 8 | 21°58 | 26°29 | 21°26 | 11°26 | 10°44 | 10°29 | 4°29 | 3° 9 | T 9 |
| W10 | 13 15 15 | 20°41'48 | 11♉47 | 4°15 | 22° 9 | 5°57 | 12°12 | 22° 0 | 26°28 | 21°26 | 11°27 | 10°43 | 10°26 | 4°35 | 3° 4 | W10 |
| T 11 | 13 19 12 | 21°40'30 | 25°48 | 6° 3 | 23°21 | 6°40 | 12°16 | 22° 2 | 26°28 | 21°25 | 11°28 | 10°42 | 10°23 | 4°42 | 3° 0 | T 11 |
| F 12 | 13 23 8 | 22°39'10 | 9♊26 | 7°52 | 24°33 | 7°24 | 12°19 | 22° 4 | 26°27 | 21°25 | 11°29 | 10°41 | 10°20 | 4°49 | 2°56 | F 12 |
| S 13 | 13 27 5 | 23°37'47 | 22°38 | 9°42 | 25°45 | 8° 7 | 12°22 | 22° 6 | 26°27 | 21°24 | 11°30 | 10°39 | 10°17 | 4°55 | 2°51 | S 13 |
| S 14 | 13 31 2 | 24°36'23 | 5♋27 | 11°34 | 26°57 | 8°51 | 12°25 | 22° 9 | 26°26 | 21°23 | 11°31 | 10°38 | 10°13 | 5° 2 | 2°47 | S 14 |
| M15 | 13 34 58 | 25°34'56 | 17°56 | 13°28 | 28° 9 | 9°34 | 12°28 | 22°11 | 26°25 | 21°22 | 11°32 | 10°37 | 10°10 | 5° 9 | 2°43 | M15 |
| T 16 | 13 38 55 | 26°33'27 | 0♌ 7 | 15°23 | 29°21 | 10°17 | 12°30 | 22°14 | 26°24 | 21°22 | 11°33 | 10°D37 | 10° 7 | 5°15 | 2°39 | T 16 |
| W17 | 13 42 51 | 27°31'55 | 12° 7 | 17°20 | 0♊33 | 11° 1 | 12°33 | 22°16 | 26°24 | 21°21 | 11°34 | 10°37 | 10° 4 | 5°22 | 2°35 | W17 |
| T 18 | 13 46 48 | 28°30'22 | 23°59 | 19°18 | 1°44 | 11°44 | 12°35 | 22°19 | 26°23 | 21°20 | 11°35 | 10°39 | 10° 1 | 5°29 | 2°31 | T 18 |
| F 19 | 13 50 44 | 29°28'46 | 5♍48 | 21°18 | 2°56 | 12°27 | 12°37 | 22°22 | 26°22 | 21°19 | 11°36 | 10°40 | 9°58 | 5°35 | 2°27 | F 19 |
| S 20 | 13 54 41 | 0♉27'09 | 17°38 | 23°20 | 4° 8 | 13°10 | 12°39 | 22°25 | 26°21 | 21°19 | 11°37 | 10°42 | 9°54 | 5°42 | 2°23 | S 20 |
| S 21 | 13 58 37 | 1°25'29 | 29°34 | 25°23 | 5°19 | 13°53 | 12°41 | 22°28 | 26°20 | 21°18 | 11°39 | 10°43 | 9°51 | 5°49 | 2°19 | S 21 |
| M22 | 14 2 34 | 2°23'47 | 11♎38 | 27°27 | 6°30 | 14°36 | 12°42 | 22°31 | 26°19 | 21°17 | 11°40 | 10°R43 | 9°48 | 5°55 | 2°16 | M22 |
| T 23 | 14 6 30 | 3°22'03 | 23°54 | 29°32 | 7°42 | 15°19 | 12°43 | 22°34 | 26°18 | 21°16 | 11°41 | 10°42 | 9°45 | 6° 2 | 2°12 | T 23 |
| W24 | 14 10 27 | 4°20'18 | 6♏22 | 1♉39 | 8°53 | 16° 2 | 12°44 | 22°38 | 26°16 | 21°15 | 11°42 | 10°41 | 9°42 | 6° 9 | 2° 8 | W24 |
| T 25 | 14 14 24 | 5°18'31 | 19° 4 | 3°47 | 10° 4 | 16°45 | 12°45 | 22°41 | 26°15 | 21°14 | 11°43 | 10°38 | 9°38 | 6°15 | 2° 5 | T 25 |
| F 26 | 14 18 20 | 6°16'42 | 2♐ 0 | 5°55 | 11°15 | 17°28 | 12°46 | 22°44 | 26°14 | 21°13 | 11°44 | 10°34 | 9°35 | 6°22 | 2° 2 | F 26 |
| S 27 | 14 22 17 | 7°14'51 | 15°11 | 8° 5 | 12°26 | 18°11 | 12°47 | 22°48 | 26°13 | 21°12 | 11°45 | 10°30 | 9°32 | 6°29 | 1°58 | S 27 |
| S 28 | 14 26 13 | 8°12'59 | 28°35 | 10°14 | 13°37 | 18°54 | 12°47 | 22°52 | 26°11 | 21°11 | 11°47 | 10°26 | 9°29 | 6°35 | 1°55 | S 28 |
| M29 | 14 30 10 | 9°11'06 | 12♑11 | 12°24 | 14°48 | 19°36 | 12°R47 | 22°56 | 26°10 | 21°10 | 11°48 | 10°23 | 9°26 | 6°42 | 1°52 | M29 |
| T 30 | 14 34 6 | 10♉ 9'11 | 25♑59 | 14♉34 | 15♊59 | 20♉19 | 12♑47 | 22♋59 | 26♐ 9 | 21♐ 9 | 11♊49 | 10♈21 | 9♈23 | 6♍49 | 1♎49 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 4n42 | 28s42 | 5s14 | 6s29 | 2s27 | 15n33 | 0n20 | 11n10 | 0s 7 | 22s50 | 0n 9 | 22n 3 | 0n20 | 23s36 | 0s 9 | 21s51 | 1n22 | 12n46 | 9s30 | 4n15 | 4n20 | 13n 7 | 4s13 | 2s58 |
| T 2 | 5 5 | 27 50 | 5 16 | 5 53 | 2 28 | 15 58 | 0 23 | 11 26 | 0 6 | 22 50 | 0 9 | 22 3 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 46 | 9 30 | 4 15 | 4 18 | 13 4 | 4 11 | 2 58 |
| W 3 | 5 28 | 25 14 | 5 1 | 5 16 | 2 28 | 16 23 | 0 26 | 11 42 | 0 5 | 22 49 | 0 9 | 22 3 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 47 | 9 30 | 4 15 | 4 17 | 13 1 | 4 9 | 2 57 |
| T 4 | 5 51 | 21 0 | 4 27 | 4 37 | 2 28 | 16 48 | 0 29 | 11 58 | 0 5 | 22 49 | 0 9 | 22 2 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 47 | 9 30 | 4 15 | 4 16 | 12 58 | 4 7 | 2 57 |
| F 5 | 6 14 | 15 27 | 3 35 | 3 57 | 2 27 | 17 12 | 0 32 | 12 14 | 0 4 | 22 49 | 0 9 | 22 2 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 47 | 9 29 | 4 15 | 4 15 | 12 55 | 4 4 | 2 57 |
| S 6 | 6 36 | 8 57 | 2 28 | 3 16 | 2 26 | 17 35 | 0 35 | 12 30 | 0 3 | 22 48 | 0 9 | 22 2 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 48 | 9 29 | 4 15 | 4 13 | 12 52 | 4 2 | 2 56 |
| S 7 | 6 59 | 1 55 | 1 11 | 2 35 | 2 24 | 17 59 | 0 38 | 12 45 | 0 3 | 22 48 | 0 8 | 22 2 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 48 | 9 29 | 4 15 | 4 12 | 12 49 | 4 0 | 2 56 |
| M 8 | 7 21 | 5n12 | 0n11 | 1 51 | 2 21 | 18 21 | 0 41 | 13 1 | 0 2 | 22 48 | 0 8 | 22 2 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 48 | 9 29 | 4 16 | 4 11 | 12 46 | 3 58 | 2 55 |
| T 9 | 7 44 | 11 59 | 1 31 | 1 7 | 2 18 | 18 44 | 0 44 | 13 16 | 0 1 | 22 48 | 0 8 | 22 1 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 49 | 9 28 | 4 15 | 4 10 | 12 42 | 3 56 | 2 55 |
| W10 | 8 6 | 18 0 | 2 44 | 0 22 | 2 15 | 19 5 | 0 47 | 13 31 | 0 1 | 22 47 | 0 8 | 22 1 | 0 20 | 23 36 | 0 9 | 21 51 | 1 22 | 12 49 | 9 28 | 4 15 | 4 8 | 12 39 | 3 53 | 2 54 |
| T 11 | 8 28 | 22 53 | 3 45 | 0n24 | 2 11 | 19 27 | 0 49 | 13 46 | 0 0 | 22 47 | 0 8 | 22 1 | 0 20 | 23 36 | 0 10 | 21 51 | 1 22 | 12 49 | 9 28 | 4 15 | 4 7 | 12 36 | 3 51 | 2 54 |
| F 12 | 8 50 | 26 22 | 4 31 | 1 11 | 2 7 | 19 48 | 0 52 | 14 1 | 0n 1 | 22 47 | 0 8 | 22 1 | 0 20 | 23 36 | 0 10 | 21 51 | 1 22 | 12 49 | 9 28 | 4 14 | 4 6 | 12 33 | 3 49 | 2 53 |
| S 13 | 9 12 | 28 17 | 5 1 | 1 59 | 2 2 | 20 8 | 0 55 | 14 16 | 0 1 | 22 47 | 0 8 | 22 0 | 0 20 | 23 36 | 0 10 | 21 51 | 1 22 | 12 50 | 9 28 | 4 13 | 4 5 | 12 30 | 3 47 | 2 53 |
| S 14 | 9 33 | 28 37 | 5 15 | 2 48 | 1 57 | 20 28 | 0 58 | 14 30 | 0 2 | 22 47 | 0 8 | 22 0 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 50 | 9 27 | 4 13 | 4 3 | 12 27 | 3 45 | 2 52 |
| M15 | 9 55 | 27 28 | 5 14 | 3 38 | 1 51 | 20 47 | 1 1 | 14 45 | 0 2 | 22 46 | 0 8 | 22 0 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 50 | 9 27 | 4 13 | 4 2 | 12 24 | 3 43 | 2 52 |
| T 16 | 10 16 | 25 1 | 4 58 | 4 28 | 1 44 | 21 6 | 1 4 | 14 59 | 0 3 | 22 46 | 0 8 | 21 59 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 51 | 9 27 | 4 13 | 4 1 | 12 20 | 3 41 | 2 51 |
| W17 | 10 37 | 21 31 | 4 30 | 5 19 | 1 37 | 21 24 | 1 7 | 15 13 | 0 4 | 22 46 | 0 8 | 21 59 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 51 | 9 27 | 4 13 | 4 0 | 12 17 | 3 38 | 2 51 |
| T 18 | 10 58 | 17 10 | 3 50 | 6 11 | 1 30 | 21 41 | 1 10 | 15 27 | 0 4 | 22 46 | 0 7 | 21 59 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 51 | 9 27 | 4 13 | 3 58 | 12 14 | 3 36 | 2 50 |
| F 19 | 11 19 | 12 13 | 3 1 | 7 3 | 1 22 | 21 58 | 1 13 | 15 41 | 0 5 | 22 46 | 0 7 | 21 58 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 52 | 9 27 | 4 14 | 3 57 | 12 11 | 3 34 | 2 50 |
| S 20 | 11 39 | 6 48 | 2 4 | 7 56 | 1 14 | 22 15 | 1 15 | 15 55 | 0 6 | 22 46 | 0 7 | 21 58 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 52 | 9 26 | 4 14 | 3 56 | 12 8 | 3 32 | 2 49 |
| S 21 | 12 0 | 1 6 | 1 1 | 8 49 | 1 5 | 22 31 | 1 18 | 16 8 | 0 6 | 22 46 | 0 7 | 21 57 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 52 | 9 26 | 4 15 | 3 55 | 12 5 | 3 30 | 2 49 |
| M22 | 12 20 | 4s41 | 0s 5 | 9 43 | 0 56 | 22 46 | 1 21 | 16 22 | 0 7 | 22 46 | 0 7 | 21 57 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 53 | 9 26 | 4 15 | 3 53 | 12 2 | 3 28 | 2 48 |
| T 23 | 12 40 | 10 24 | 1 12 | 10 36 | 0 47 | 23 1 | 1 23 | 16 35 | 0 8 | 22 46 | 0 7 | 21 56 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 53 | 9 26 | 4 15 | 3 52 | 11 58 | 3 26 | 2 48 |
| W24 | 12 59 | 15 49 | 2 17 | 11 30 | 0 37 | 23 15 | 1 26 | 16 48 | 0 8 | 22 46 | 0 7 | 21 56 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 53 | 9 26 | 4 14 | 3 51 | 11 55 | 3 24 | 2 47 |
| T 25 | 13 19 | 20 39 | 3 15 | 12 23 | 0 27 | 23 28 | 1 29 | 17 1 | 0 9 | 22 46 | 0 7 | 21 55 | 0 21 | 23 36 | 0 10 | 21 50 | 1 22 | 12 54 | 9 26 | 4 13 | 3 50 | 11 52 | 3 23 | 2 47 |
| F 26 | 13 38 | 24 37 | 4 5 | 13 16 | 0 17 | 23 41 | 1 31 | 17 14 | 0 9 | 22 46 | 0 7 | 21 55 | 0 21 | 23 36 | 0 10 | 21 49 | 1 22 | 12 54 | 9 25 | 4 12 | 3 48 | 11 49 | 3 21 | 2 46 |
| S 27 | 13 58 | 27 21 | 4 43 | 14 8 | 0 6 | 23 53 | 1 34 | 17 26 | 0 10 | 22 46 | 0 6 | 21 54 | 0 21 | 23 36 | 0 10 | 21 49 | 1 22 | 12 54 | 9 25 | 4 10 | 3 47 | 11 46 | 3 19 | 2 45 |
| S 28 | 14 16 | 28 35 | 5 6 | 14 59 | 0n 4 | 24 4 | 1 36 | 17 39 | 0 11 | 22 46 | 0 6 | 21 54 | 0 21 | 23 36 | 0 10 | 21 49 | 1 22 | 12 54 | 9 25 | 4 8 | 3 46 | 11 43 | 3 17 | 2 45 |
| M29 | 14 35 | 28 7 | 5 13 | 15 50 | 0 15 | 24 15 | 1 39 | 17 51 | 0 11 | 22 46 | 0 6 | 21 53 | 0 21 | 23 36 | 0 10 | 21 49 | 1 23 | 12 55 | 9 25 | 4 7 | 3 45 | 11 39 | 3 15 | 2 44 |
| T 30 | 14n53 | 25s56 | 5s 2 | 16n39 | 0n26 | 24n25 | 1n41 | 18n 3 | 0n12 | 22s46 | 0n 6 | 21n53 | 0n21 | 23s36 | 0s10 | 21s49 | 1n23 | 12n55 | 9s25 | 4n 6 | 3n43 | 11n36 | 3s14 | 2s44 |

Julian Day Number = 2324531.5, Delta T = 41.74 sec
Ecliptic obliquity = 23°29'14, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'11, Lahiri = 19°00'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## MAY 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 38 3 | 11♉ 7'15 | 9♒59 | 16♉43 | 17♊10 | 21♉ 2 | 12°R47 | 23♋ 3 | 26°R 7 | 21°R 8 | 11♊50 | 10°D20 | 9♈19 | 6♍55 | 1°R46 | W 1 |
| T 2 | 14 42 0 | 12° 5'17 | 24° 8 | 18°52 | 18°20 | 21°44 | 12♏47 | 23° 7 | 26♐ 6 | 21♐ 6 | 11°51 | 10♈20 | 9°16 | 7° 2 | 1♎43 | T 2 |
| F 3 | 14 45 56 | 13° 3'18 | 8♓25 | 21° 0 | 19°31 | 22°27 | 12°46 | 23°12 | 26° 4 | 21° 5 | 11°53 | 10°22 | 9°13 | 7° 9 | 1°40 | F 3 |
| S 4 | 14 49 53 | 14° 1'18 | 22°48 | 23° 7 | 20°41 | 23° 9 | 12°45 | 23°16 | 26° 3 | 21° 4 | 11°54 | 10°23 | 9°10 | 7°15 | 1°38 | S 4 |
| S 5 | 14 53 49 | 14°59'16 | 7♈13 | 25°12 | 21°52 | 23°52 | 12°44 | 23°20 | 26° 1 | 21° 3 | 11°55 | 10°R24 | 9° 7 | 7°22 | 1°35 | S 5 |
| M 6 | 14 57 46 | 15°57'13 | 21°38 | 27°15 | 23° 2 | 24°34 | 12°43 | 23°24 | 25°59 | 21° 2 | 11°56 | 10°24 | 9° 3 | 7°29 | 1°32 | M 6 |
| T 7 | 15 1 42 | 16°55'08 | 5♉56 | 29°17 | 24°12 | 25°16 | 12°42 | 23°29 | 25°58 | 21° 0 | 11°58 | 10°21 | 9° 0 | 7°35 | 1°30 | T 7 |
| W 8 | 15 5 39 | 17°53'02 | 20° 2 | 1♊16 | 25°22 | 25°58 | 12°40 | 23°33 | 25°56 | 20°59 | 11°59 | 10°18 | 8°57 | 7°42 | 1°28 | W 8 |
| T 9 | 15 9 35 | 18°50'55 | 3♊53 | 3°13 | 26°32 | 26°41 | 12°39 | 23°38 | 25°54 | 20°58 | 12° 0 | 10°12 | 8°54 | 7°49 | 1°26 | T 9 |
| F 10 | 15 13 32 | 19°48'46 | 17°25 | 5° 7 | 27°42 | 27°23 | 12°37 | 23°43 | 25°52 | 20°56 | 12° 1 | 10° 6 | 8°51 | 7°55 | 1°24 | F 10 |
| S 11 | 15 17 29 | 20°46'36 | 0♋36 | 6°58 | 28°52 | 28° 5 | 12°35 | 23°48 | 25°51 | 20°55 | 12° 3 | 9°59 | 8°48 | 8° 2 | 1°22 | S 11 |
| S 12 | 15 21 25 | 21°44'24 | 13°25 | 8°47 | 0♋ 2 | 28°47 | 12°33 | 23°53 | 25°49 | 20°54 | 12° 4 | 9°53 | 8°44 | 8° 9 | 1°20 | S 12 |
| M13 | 15 25 22 | 22°42'10 | 25°55 | 10°32 | 1°11 | 29°29 | 12°30 | 23°57 | 25°47 | 20°52 | 12° 5 | 9°48 | 8°41 | 8°15 | 1°18 | M13 |
| T 14 | 15 29 18 | 23°39'54 | 8♌ 8 | 12°15 | 2°21 | 0♊11 | 12°27 | 24° 3 | 25°45 | 20°51 | 12° 7 | 9°45 | 8°38 | 8°22 | 1°16 | T 14 |
| W15 | 15 33 15 | 24°37'37 | 20° 8 | 13°54 | 3°30 | 0°53 | 12°25 | 24° 8 | 25°43 | 20°50 | 12° 8 | 9°D44 | 8°35 | 8°29 | 1°15 | W15 |
| T 16 | 15 37 11 | 25°35'19 | 2♍ 0 | 15°30 | 4°39 | 1°35 | 12°22 | 24°13 | 25°41 | 20°48 | 12° 9 | 9°44 | 8°32 | 8°35 | 1°13 | T 16 |
| F 17 | 15 41 8 | 26°32'58 | 13°50 | 17° 3 | 5°49 | 2°17 | 12°18 | 24°18 | 25°39 | 20°47 | 12°11 | 9°45 | 8°29 | 8°42 | 1°12 | F 17 |
| S 18 | 15 45 4 | 27°30'37 | 25°41 | 18°33 | 6°58 | 2°59 | 12°15 | 24°23 | 25°37 | 20°45 | 12°12 | 9°46 | 8°25 | 8°49 | 1°11 | S 18 |
| S 19 | 15 49 1 | 28°28'13 | 7♎40 | 19°59 | 8° 7 | 3°40 | 12°12 | 24°29 | 25°35 | 20°44 | 12°13 | 9°R47 | 8°22 | 8°55 | 1° 9 | S 19 |
| M20 | 15 52 58 | 29°25'48 | 19°51 | 21°22 | 9°15 | 4°22 | 12° 8 | 24°34 | 25°33 | 20°42 | 12°15 | 9°46 | 8°19 | 9° 2 | 1° 8 | M20 |
| T 21 | 15 56 54 | 0♊23'22 | 2♏16 | 22°41 | 10°24 | 5° 4 | 12° 4 | 24°40 | 25°31 | 20°41 | 12°16 | 9°44 | 8°16 | 9° 9 | 1° 8 | T 21 |
| W22 | 16 0 51 | 1°20'55 | 14°59 | 23°58 | 11°33 | 5°45 | 12° 0 | 24°45 | 25°29 | 20°39 | 12°18 | 9°39 | 8°13 | 9°15 | 1° 7 | W22 |
| T 23 | 16 4 47 | 2°18'26 | 28° 1 | 25°10 | 12°41 | 6°27 | 11°56 | 24°51 | 25°26 | 20°38 | 12°19 | 9°33 | 8° 9 | 9°22 | 1° 6 | T 23 |
| F 24 | 16 8 44 | 3°15'57 | 11♐20 | 26°19 | 13°49 | 7° 8 | 11°52 | 24°57 | 25°24 | 20°36 | 12°20 | 9°25 | 8° 6 | 9°29 | 1° 6 | F 24 |
| S 25 | 16 12 40 | 4°13'26 | 24°55 | 27°24 | 14°57 | 7°50 | 11°47 | 25° 3 | 25°22 | 20°35 | 12°22 | 9°16 | 8° 3 | 9°35 | 1° 5 | S 25 |
| S 26 | 16 16 37 | 5°10'54 | 8♑44 | 28°26 | 16° 5 | 8°31 | 11°42 | 25° 8 | 25°20 | 20°33 | 12°23 | 9° 7 | 8° 0 | 9°42 | 1° 5 | S 26 |
| M27 | 16 20 33 | 6° 8'22 | 22°43 | 29°24 | 17°13 | 9°13 | 11°38 | 25°14 | 25°18 | 20°32 | 12°24 | 8°59 | 7°57 | 9°49 | 1° 4 | M27 |
| T 28 | 16 24 30 | 7° 5'49 | 6♒48 | 0♋18 | 18°21 | 9°54 | 11°33 | 25°20 | 25°15 | 20°30 | 12°26 | 8°54 | 7°54 | 9°55 | 1° 4 | T 28 |
| W29 | 16 28 27 | 8° 3'15 | 20°57 | 1° 8 | 19°29 | 10°35 | 11°28 | 25°26 | 25°13 | 20°29 | 12°27 | 8°50 | 7°50 | 10° 2 | 1°D 4 | W29 |
| T 30 | 16 32 23 | 9° 0'40 | 5♓ 6 | 1°55 | 20°36 | 11°16 | 11°22 | 25°33 | 25°11 | 20°27 | 12°29 | 8°D49 | 7°47 | 10° 9 | 1° 4 | T 30 |
| F 31 | 16 36 20 | 9♊58'04 | 19♓15 | 2♋37 | 21♋44 | 11♊58 | 11♑17 | 25♋39 | 25♐ 8 | 20♐26 | 12♊30 | 8♈49 | 7♈44 | 10♍15 | 1♎ 5 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 15n12 | 22s 9 | 4s32 | 17n27 | 0n36 | 24n35 | 1n43 | 18n15 | 0n13 | 22s46 | 0n 6 | 21n52 | 0n22 | 23s36 | 0s10 | 21s49 | 1n23 | 12n55 | 9s25 | 4n 6 | 3n42 | 11n33 | 3s12 | 2s43 |
| T 2 | 15 30 | 17 4 | 3 46 | 18 13 | 0 47 | 24 44 | 1 46 | 18 27 | 0 13 | 22 46 | 0 6 | 21 51 | 0 22 | 23 36 | 0 10 | 21 49 | 1 23 | 12 56 | 9 24 | 4 6 | 3 41 | 11 30 | 3 10 | 2 43 |
| F 3 | 15 47 | 11 0 | 2 46 | 18 57 | 0 57 | 24 52 | 1 48 | 18 38 | 0 14 | 22 47 | 0 6 | 21 51 | 0 22 | 23 36 | 0 10 | 21 49 | 1 23 | 12 56 | 9 24 | 4 7 | 3 40 | 11 27 | 3 9 | 2 42 |
| S 4 | 16 5 | 4 19 | 1 35 | 19 40 | 1 6 | 24 59 | 1 50 | 18 50 | 0 14 | 22 47 | 0 6 | 21 50 | 0 22 | 23 36 | 0 10 | 21 49 | 1 23 | 12 56 | 9 24 | 4 7 | 3 38 | 11 23 | 3 7 | 2 41 |
| S 5 | 16 22 | 2n36 | 0 17 | 20 20 | 1 16 | 25 6 | 1 52 | 19 1 | 0 15 | 22 47 | 0 6 | 21 49 | 0 22 | 23 36 | 0 10 | 21 49 | 1 23 | 12 56 | 9 24 | 4 8 | 3 37 | 11 20 | 3 5 | 2 41 |
| M 6 | 16 39 | 9 23 | 1n 1 | 20 58 | 1 25 | 25 12 | 1 54 | 19 12 | 0 16 | 22 47 | 0 6 | 21 49 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 57 | 9 24 | 4 7 | 3 36 | 11 17 | 3 4 | 2 40 |
| T 7 | 16 55 | 15 38 | 2 15 | 21 33 | 1 33 | 25 17 | 1 56 | 19 23 | 0 16 | 22 47 | 0 5 | 21 48 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 57 | 9 24 | 4 7 | 3 35 | 11 14 | 3 2 | 2 40 |
| W 8 | 17 12 | 20 59 | 3 19 | 22 6 | 1 41 | 25 22 | 1 58 | 19 34 | 0 17 | 22 48 | 0 5 | 21 47 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 57 | 9 24 | 4 5 | 3 33 | 11 11 | 3 1 | 2 39 |
| T 9 | 17 28 | 25 4 | 4 10 | 22 36 | 1 48 | 25 26 | 2 0 | 19 44 | 0 17 | 22 48 | 0 5 | 21 47 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 58 | 9 24 | 4 3 | 3 32 | 11 7 | 2 59 | 2 39 |
| F 10 | 17 44 | 27 38 | 4 46 | 23 4 | 1 55 | 25 29 | 2 1 | 19 54 | 0 18 | 22 48 | 0 5 | 21 46 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 58 | 9 23 | 4 0 | 3 31 | 11 4 | 2 58 | 2 38 |
| S 11 | 17 59 | 28 35 | 5 6 | 23 30 | 2 0 | 25 32 | 2 3 | 20 4 | 0 19 | 22 49 | 0 5 | 21 45 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 58 | 9 23 | 3 58 | 3 30 | 11 1 | 2 57 | 2 37 |
| S 12 | 18 14 | 27 56 | 5 9 | 23 52 | 2 5 | 25 34 | 2 5 | 20 14 | 0 19 | 22 49 | 0 5 | 21 44 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 58 | 9 23 | 3 55 | 3 28 | 10 58 | 2 55 | 2 37 |
| M13 | 18 29 | 25 53 | 4 58 | 24 13 | 2 10 | 25 35 | 2 6 | 20 24 | 0 20 | 22 49 | 0 5 | 21 43 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 59 | 9 23 | 3 53 | 3 27 | 10 55 | 2 54 | 2 36 |
| T 14 | 18 44 | 22 39 | 4 33 | 24 30 | 2 13 | 25 36 | 2 8 | 20 34 | 0 20 | 22 50 | 0 5 | 21 43 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 59 | 9 23 | 3 52 | 3 26 | 10 51 | 2 53 | 2 36 |
| W15 | 18 58 | 18 32 | 3 56 | 24 46 | 2 16 | 25 35 | 2 9 | 20 43 | 0 21 | 22 50 | 0 4 | 21 42 | 0 22 | 23 35 | 0 10 | 21 48 | 1 23 | 12 59 | 9 23 | 3 52 | 3 25 | 10 48 | 2 52 | 2 35 |
| T 16 | 19 12 | 13 44 | 3 10 | 24 59 | 2 18 | 25 35 | 2 10 | 20 52 | 0 21 | 22 50 | 0 4 | 21 41 | 0 22 | 23 35 | 0 10 | 21 47 | 1 23 | 13 0 | 9 23 | 3 52 | 3 23 | 10 45 | 2 51 | 2 34 |
| F 17 | 19 25 | 8 28 | 2 16 | 25 9 | 2 19 | 25 33 | 2 12 | 21 1 | 0 22 | 22 51 | 0 4 | 21 40 | 0 22 | 23 35 | 0 10 | 21 47 | 1 23 | 13 0 | 9 23 | 3 52 | 3 22 | 10 42 | 2 50 | 2 34 |
| S 18 | 19 39 | 2 52 | 1 15 | 25 18 | 2 19 | 25 31 | 2 13 | 21 10 | 0 23 | 22 51 | 0 4 | 21 39 | 0 23 | 23 35 | 0 10 | 21 47 | 1 23 | 13 0 | 9 23 | 3 53 | 3 21 | 10 38 | 2 49 | 2 33 |
| S 19 | 19 52 | 2s53 | 0 11 | 25 24 | 2 18 | 25 28 | 2 14 | 21 18 | 0 23 | 22 52 | 0 4 | 21 38 | 0 23 | 23 35 | 0 10 | 21 47 | 1 23 | 13 0 | 9 22 | 3 53 | 3 20 | 10 35 | 2 48 | 2 32 |
| M20 | 20 4 | 8 37 | 0s54 | 25 29 | 2 17 | 25 24 | 2 15 | 21 27 | 0 24 | 22 52 | 0 4 | 21 37 | 0 23 | 23 35 | 0 10 | 21 47 | 1 23 | 13 1 | 9 22 | 3 53 | 3 18 | 10 32 | 2 47 | 2 32 |
| T 21 | 20 16 | 14 8 | 1 58 | 25 31 | 2 15 | 25 20 | 2 16 | 21 35 | 0 24 | 22 53 | 0 4 | 21 36 | 0 23 | 23 35 | 0 10 | 21 47 | 1 23 | 13 1 | 9 22 | 3 52 | 3 17 | 10 29 | 2 46 | 2 31 |
| W22 | 20 28 | 19 12 | 2 58 | 25 32 | 2 11 | 25 15 | 2 16 | 21 43 | 0 25 | 22 53 | 0 4 | 21 35 | 0 23 | 23 35 | 0 10 | 21 47 | 1 23 | 13 1 | 9 22 | 3 50 | 3 16 | 10 26 | 2 45 | 2 31 |
| T 23 | 20 40 | 23 29 | 3 49 | 25 31 | 2 7 | 25 9 | 2 17 | 21 51 | 0 25 | 22 54 | 0 3 | 21 34 | 0 23 | 23 35 | 0 10 | 21 47 | 1 23 | 13 1 | 9 22 | 3 47 | 3 15 | 10 22 | 2 44 | 2 30 |
| F 24 | 20 51 | 26 38 | 4 30 | 25 29 | 2 3 | 25 3 | 2 18 | 21 58 | 0 26 | 22 54 | 0 3 | 21 33 | 0 23 | 23 35 | 0 10 | 21 47 | 1 23 | 13 2 | 9 22 | 3 44 | 3 13 | 10 19 | 2 43 | 2 29 |
| S 25 | 21 2 | 28 19 | 4 56 | 25 25 | 1 57 | 24 56 | 2 18 | 22 6 | 0 27 | 22 55 | 0 3 | 21 32 | 0 23 | 23 35 | 0 10 | 21 46 | 1 23 | 13 2 | 9 22 | 3 41 | 3 12 | 10 16 | 2 42 | 2 29 |
| S 26 | 21 12 | 28 16 | 5 5 | 25 19 | 1 50 | 24 48 | 2 18 | 22 13 | 0 27 | 22 55 | 0 3 | 21 31 | 0 23 | 23 34 | 0 10 | 21 46 | 1 23 | 13 2 | 9 22 | 3 37 | 3 11 | 10 13 | 2 42 | 2 28 |
| M27 | 21 23 | 26 27 | 4 57 | 25 12 | 1 43 | 24 40 | 2 19 | 22 20 | 0 28 | 22 56 | 0 3 | 21 30 | 0 23 | 23 34 | 0 10 | 21 46 | 1 23 | 13 2 | 9 22 | 3 34 | 3 10 | 10 9 | 2 41 | 2 28 |
| T 28 | 21 32 | 22 58 | 4 30 | 25 4 | 1 35 | 24 31 | 2 19 | 22 27 | 0 28 | 22 56 | 0 3 | 21 29 | 0 23 | 23 34 | 0 10 | 21 46 | 1 23 | 13 3 | 9 22 | 3 32 | 3 8 | 10 6 | 2 40 | 2 27 |
| W29 | 21 42 | 18 8 | 3 47 | 24 55 | 1 26 | 24 22 | 2 19 | 22 33 | 0 29 | 22 57 | 0 3 | 21 28 | 0 23 | 23 34 | 0 10 | 21 46 | 1 23 | 13 3 | 9 22 | 3 31 | 3 7 | 10 3 | 2 40 | 2 26 |
| T 30 | 21 51 | 12 18 | 2 50 | 24 44 | 1 16 | 24 11 | 2 19 | 22 40 | 0 29 | 22 57 | 0 3 | 21 27 | 0 23 | 23 34 | 0 10 | 21 46 | 1 23 | 13 3 | 9 22 | 3 30 | 3 6 | 10 0 | 2 39 | 2 26 |
| F 31 | 21n59 | 5s50 | 1s43 | 24n33 | 1n 5 | 24n 1 | 2n19 | 22n46 | 0n30 | 22s58 | 0n 2 | 21n26 | 0n23 | 23s34 | 0s10 | 21s46 | 1n23 | 13n 3 | 9s22 | 3n30 | 3n 4 | 9n56 | 2s39 | 2s25 |

Julian Day Number = 2324561.5, Delta T = 41.69 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'15, Lahiri = 19°00'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## JUNE 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 40 16 | 10♊55'28 | 3♈22 | 3♋15 | 22♋51 | 12♊39 | 11°R11 | 25♋45 | 25°R 6 | 20°R24 | 12♊31 | 8°R50 | 7♈41 | 10♍22 | 1♎ 5 | S 1 |
| S 2 | 16 44 13 | 11°52'52 | 17°25 | 3°49 | 23°58 | 13°20 | 11♉ 6 | 25°51 | 25♐ 4 | 20♐22 | 12°33 | 8♈50 | 7°38 | 10°29 | 1° 5 | S 2 |
| M 3 | 16 48 9 | 12°50'14 | 1♉24 | 4°18 | 25° 5 | 14° 1 | 11° 0 | 25°58 | 25° 1 | 20°21 | 12°34 | 8°48 | 7°35 | 10°35 | 1° 6 | M 3 |
| T 4 | 16 52 6 | 13°47'37 | 15°17 | 4°43 | 26°11 | 14°42 | 10°54 | 26° 4 | 24°59 | 20°19 | 12°36 | 8°43 | 7°31 | 10°42 | 1° 7 | T 4 |
| W 5 | 16 56 2 | 14°44'58 | 29° 0 | 5° 4 | 27°18 | 15°23 | 10°48 | 26°10 | 24°57 | 20°18 | 12°37 | 8°36 | 7°28 | 10°49 | 1° 7 | W 5 |
| T 6 | 16 59 59 | 15°42'20 | 12♊31 | 5°20 | 28°24 | 16° 4 | 10°42 | 26°17 | 24°54 | 20°16 | 12°38 | 8°27 | 7°25 | 10°55 | 1° 8 | T 6 |
| F 7 | 17 3 56 | 16°39'40 | 25°47 | 5°32 | 29°30 | 16°45 | 10°35 | 26°23 | 24°52 | 20°14 | 12°40 | 8°16 | 7°22 | 11° 2 | 1° 9 | F 7 |
| S 8 | 17 7 52 | 17°37'00 | 8♋46 | 5°39 | 0♌37 | 17°26 | 10°29 | 26°30 | 24°49 | 20°13 | 12°41 | 8° 4 | 7°19 | 11° 9 | 1°11 | S 8 |
| S 9 | 17 11 49 | 18°34'19 | 21°28 | 5°R41 | 1°42 | 18° 7 | 10°22 | 26°37 | 24°47 | 20°11 | 12°42 | 7°53 | 7°15 | 11°15 | 1°12 | S 9 |
| M10 | 17 15 45 | 19°31'37 | 3♌54 | 5°39 | 2°48 | 18°47 | 10°16 | 26°43 | 24°44 | 20° 9 | 12°44 | 7°44 | 7°12 | 11°22 | 1°13 | M10 |
| T 11 | 17 19 42 | 20°28'54 | 16° 4 | 5°33 | 3°54 | 19°28 | 10° 9 | 26°50 | 24°42 | 20° 8 | 12°45 | 7°37 | 7° 9 | 11°29 | 1°15 | T 11 |
| W12 | 17 23 38 | 21°26'11 | 28° 3 | 5°22 | 4°59 | 20° 9 | 10° 2 | 26°57 | 24°40 | 20° 6 | 12°47 | 7°32 | 7° 6 | 11°35 | 1°16 | W12 |
| T 13 | 17 27 35 | 22°23'26 | 9♍54 | 5° 7 | 6° 4 | 20°49 | 9°55 | 27° 4 | 24°37 | 20° 5 | 12°48 | 7°30 | 7° 3 | 11°42 | 1°18 | T 13 |
| F 14 | 17 31 31 | 23°20'41 | 21°43 | 4°48 | 7° 9 | 21°30 | 9°48 | 27°11 | 24°35 | 20° 3 | 12°49 | 7°D29 | 7° 0 | 11°49 | 1°20 | F 14 |
| S 15 | 17 35 28 | 24°17'55 | 3♎35 | 4°26 | 8°13 | 22°11 | 9°41 | 27°17 | 24°32 | 20° 1 | 12°51 | 7°R29 | 6°56 | 11°55 | 1°22 | S 15 |
| S 16 | 17 39 25 | 25°15'09 | 15°35 | 4° 0 | 9°18 | 22°51 | 9°34 | 27°24 | 24°30 | 20° 0 | 12°52 | 7°29 | 6°53 | 12° 2 | 1°24 | S 16 |
| M17 | 17 43 21 | 26°12'22 | 27°48 | 3°32 | 10°22 | 23°32 | 9°27 | 27°31 | 24°27 | 19°58 | 12°53 | 7°28 | 6°50 | 12° 9 | 1°26 | M17 |
| T 18 | 17 47 18 | 27° 9'34 | 10♏19 | 3° 0 | 11°26 | 24°12 | 9°19 | 27°38 | 24°25 | 19°57 | 12°55 | 7°24 | 6°47 | 12°15 | 1°28 | T 18 |
| W19 | 17 51 14 | 28° 6'46 | 23°12 | 2°27 | 12°30 | 24°52 | 9°12 | 27°46 | 24°23 | 19°55 | 12°56 | 7°18 | 6°44 | 12°22 | 1°31 | W19 |
| T 20 | 17 55 11 | 29° 3'57 | 6♐28 | 1°53 | 13°33 | 25°33 | 9° 4 | 27°53 | 24°20 | 19°53 | 12°58 | 7°10 | 6°41 | 12°29 | 1°33 | T 20 |
| F 21 | 17 59 7 | 0♋ 1'08 | 20° 6 | 1°18 | 14°36 | 26°13 | 8°57 | 28° 0 | 24°18 | 19°52 | 12°59 | 6°59 | 6°37 | 12°35 | 1°36 | F 21 |
| S 22 | 18 3 4 | 0°58'19 | 4♑ 5 | 0°42 | 15°39 | 26°53 | 8°49 | 28° 7 | 24°15 | 19°50 | 13° 0 | 6°48 | 6°34 | 12°42 | 1°38 | S 22 |
| S 23 | 18 7 1 | 1°55'30 | 18°20 | 0° 7 | 16°42 | 27°34 | 8°42 | 28°14 | 24°13 | 19°49 | 13° 2 | 6°36 | 6°31 | 12°49 | 1°41 | S 23 |
| M24 | 18 10 57 | 2°52'40 | 2♒45 | 29♊33 | 17°44 | 28°14 | 8°34 | 28°21 | 24°10 | 19°47 | 13° 3 | 6°26 | 6°28 | 12°55 | 1°44 | M24 |
| T 25 | 18 14 54 | 3°49'51 | 17°13 | 29° 0 | 18°47 | 28°54 | 8°27 | 28°29 | 24° 8 | 19°45 | 13° 4 | 6°19 | 6°25 | 13° 2 | 1°47 | T 25 |
| W26 | 18 18 50 | 4°47'01 | 1♓40 | 28°30 | 19°48 | 29°34 | 8°19 | 28°36 | 24° 6 | 19°44 | 13° 5 | 6°14 | 6°21 | 13° 9 | 1°50 | W26 |
| T 27 | 18 22 47 | 5°44'12 | 16° 1 | 28° 2 | 20°50 | 0♋14 | 8°11 | 28°43 | 24° 3 | 19°42 | 13° 7 | 6°11 | 6°18 | 13°15 | 1°53 | T 27 |
| F 28 | 18 26 43 | 6°41'23 | 0♈13 | 27°37 | 21°51 | 0°54 | 8° 4 | 28°51 | 24° 1 | 19°41 | 13° 8 | 6°11 | 6°15 | 13°22 | 1°57 | F 28 |
| S 29 | 18 30 40 | 7°38'34 | 14°15 | 27°16 | 22°52 | 1°34 | 7°56 | 28°58 | 23°59 | 19°39 | 13° 9 | 6°11 | 6°12 | 13°29 | 2° 0 | S 29 |
| S 30 | 18 34 36 | 8♋35'45 | 28♈ 6 | 26♊59 | 23♌53 | 2♋14 | 7♑48 | 29♋ 6 | 23♐56 | 19♐38 | 13♊11 | 6♈10 | 6♈ 9 | 13♍35 | 2♎ 4 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 8 | 0n54 | 0s29 | 24n21 | 0n54 | 23n49 | 2n18 | 22n52 | 0n30 | 22s59 | 0n 2 | 21n25 | 0n23 | 23s34 | 0s10 | 21s46 | 1n23 | 13n 3 | 9s22 | 3n30 | 3n 3 | 9n53 | 2s38 | 2s24 |
| S 2 | 22 15 | 7 33 | 0n46 | 24 8 | 0 42 | 23 37 | 2 18 | 22 57 | 0 31 | 22 59 | 0 2 | 21 24 | 0 23 | 23 34 | 0 10 | 21 45 | 1 23 | 13 4 | 9 22 | 3 30 | 3 2 | 9 50 | 2 38 | 2 24 |
| M 3 | 22 23 | 13 49 | 1 57 | 23 54 | 0 29 | 23 25 | 2 18 | 23 3 | 0 31 | 23 0 | 0 2 | 21 23 | 0 23 | 23 34 | 0 10 | 21 45 | 1 23 | 13 4 | 9 22 | 3 30 | 3 1 | 9 47 | 2 38 | 2 23 |
| T 4 | 22 30 | 19 20 | 3 1 | 23 40 | 0 16 | 23 12 | 2 17 | 23 8 | 0 32 | 23 0 | 0 2 | 21 22 | 0 24 | 23 34 | 0 10 | 21 45 | 1 23 | 13 4 | 9 21 | 3 28 | 2 59 | 9 43 | 2 37 | 2 23 |
| W 5 | 22 37 | 23 46 | 3 54 | 23 25 | 0 1 | 22 58 | 2 16 | 23 13 | 0 32 | 23 1 | 0 2 | 21 21 | 0 24 | 23 34 | 0 10 | 21 45 | 1 23 | 13 4 | 9 21 | 3 25 | 2 58 | 9 40 | 2 37 | 2 22 |
| T 6 | 22 43 | 26 50 | 4 32 | 23 9 | 0s13 | 22 44 | 2 15 | 23 18 | 0 33 | 23 2 | 0 2 | 21 19 | 0 24 | 23 34 | 0 10 | 21 45 | 1 23 | 13 4 | 9 21 | 3 21 | 2 57 | 9 37 | 2 37 | 2 21 |
| F 7 | 22 49 | 28 20 | 4 55 | 22 54 | 0 29 | 22 29 | 2 15 | 23 23 | 0 34 | 23 2 | 0 1 | 21 18 | 0 24 | 23 34 | 0 10 | 21 45 | 1 23 | 13 5 | 9 21 | 3 17 | 2 56 | 9 33 | 2 37 | 2 21 |
| S 8 | 22 55 | 28 13 | 5 2 | 22 38 | 0 44 | 22 14 | 2 13 | 23 27 | 0 34 | 23 3 | 0 1 | 21 17 | 0 24 | 23 33 | 0 10 | 21 45 | 1 23 | 13 5 | 9 21 | 3 12 | 2 54 | 9 30 | 2 37 | 2 20 |
| S 9 | 23 0 | 26 36 | 4 54 | 22 21 | 1 0 | 21 58 | 2 12 | 23 32 | 0 35 | 23 4 | 0 1 | 21 16 | 0 24 | 23 33 | 0 10 | 21 45 | 1 23 | 13 5 | 9 21 | 3 8 | 2 53 | 9 27 | 2 37 | 2 20 |
| M10 | 23 4 | 23 43 | 4 32 | 22 5 | 1 17 | 21 42 | 2 11 | 23 36 | 0 35 | 23 4 | 0 1 | 21 15 | 0 24 | 23 33 | 0 10 | 21 45 | 1 23 | 13 5 | 9 21 | 3 4 | 2 52 | 9 24 | 2 37 | 2 19 |
| T 11 | 23 9 | 19 50 | 3 57 | 21 49 | 1 34 | 21 25 | 2 10 | 23 40 | 0 36 | 23 5 | 0 1 | 21 13 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 5 | 9 21 | 3 2 | 2 51 | 9 20 | 2 37 | 2 18 |
| W12 | 23 13 | 15 12 | 3 13 | 21 32 | 1 50 | 21 8 | 2 8 | 23 43 | 0 36 | 23 6 | 0 1 | 21 12 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 6 | 9 21 | 3 0 | 2 49 | 9 17 | 2 37 | 2 18 |
| T 13 | 23 16 | 10 3 | 2 21 | 21 16 | 2 7 | 20 50 | 2 6 | 23 47 | 0 37 | 23 6 | 0 1 | 21 11 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 6 | 9 21 | 2 59 | 2 48 | 9 14 | 2 37 | 2 17 |
| F 14 | 23 19 | 4 33 | 1 23 | 21 0 | 2 24 | 20 32 | 2 5 | 23 50 | 0 37 | 23 7 | 0 0 | 21 10 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 6 | 9 21 | 2 59 | 2 47 | 9 10 | 2 37 | 2 17 |
| S 15 | 23 22 | 1s 7 | 0 21 | 20 45 | 2 40 | 20 13 | 2 3 | 23 53 | 0 38 | 23 8 | 0 0 | 21 8 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 6 | 9 21 | 2 59 | 2 46 | 9 7 | 2 37 | 2 16 |
| S 16 | 23 24 | 6 48 | 0s43 | 20 30 | 2 56 | 19 54 | 2 1 | 23 56 | 0 38 | 23 8 | 0 0 | 21 7 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 6 | 9 21 | 2 59 | 2 44 | 9 4 | 2 38 | 2 15 |
| M17 | 23 26 | 12 21 | 1 46 | 20 16 | 3 11 | 19 34 | 1 58 | 23 58 | 0 39 | 23 9 | 0 0 | 21 6 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 6 | 9 21 | 2 58 | 2 43 | 9 1 | 2 38 | 2 15 |
| T 18 | 23 27 | 17 33 | 2 45 | 20 2 | 3 25 | 19 15 | 1 56 | 24 1 | 0 39 | 23 10 | 0s 0 | 21 4 | 0 24 | 23 33 | 0 10 | 21 44 | 1 23 | 13 7 | 9 21 | 2 57 | 2 42 | 8 57 | 2 38 | 2 14 |
| W19 | 23 28 | 22 6 | 3 37 | 19 49 | 3 39 | 18 54 | 1 53 | 24 3 | 0 40 | 23 10 | 0 0 | 21 3 | 0 24 | 23 32 | 0 10 | 21 44 | 1 23 | 13 7 | 9 21 | 2 54 | 2 41 | 8 54 | 2 39 | 2 14 |
| T 20 | 23 29 | 25 41 | 4 19 | 19 37 | 3 51 | 18 33 | 1 51 | 24 5 | 0 40 | 23 11 | 0 0 | 21 2 | 0 25 | 23 32 | 0 10 | 21 43 | 1 23 | 13 7 | 9 21 | 2 51 | 2 39 | 8 51 | 2 39 | 2 13 |
| F 21 | 23 29 | 27 54 | 4 48 | 19 26 | 4 3 | 18 12 | 1 48 | 24 6 | 0 41 | 23 12 | 0 1 | 21 0 | 0 25 | 23 32 | 0 10 | 21 43 | 1 23 | 13 7 | 9 21 | 2 47 | 2 38 | 8 47 | 2 40 | 2 12 |
| S 22 | 23 29 | 28 25 | 5 0 | 19 16 | 4 13 | 17 51 | 1 45 | 24 8 | 0 41 | 23 12 | 0 1 | 20 59 | 0 25 | 23 32 | 0 10 | 21 43 | 1 23 | 13 7 | 9 21 | 2 42 | 2 37 | 8 44 | 2 40 | 2 12 |
| S 23 | 23 28 | 27 5 | 4 54 | 19 8 | 4 22 | 17 29 | 1 42 | 24 9 | 0 42 | 23 13 | 0 1 | 20 58 | 0 25 | 23 32 | 0 11 | 21 43 | 1 23 | 13 7 | 9 21 | 2 38 | 2 36 | 8 41 | 2 41 | 2 11 |
| M24 | 23 27 | 23 58 | 4 30 | 19 0 | 4 29 | 17 7 | 1 39 | 24 10 | 0 42 | 23 14 | 0 1 | 20 56 | 0 25 | 23 32 | 0 11 | 21 43 | 1 23 | 13 7 | 9 21 | 2 34 | 2 34 | 8 37 | 2 41 | 2 11 |
| T 25 | 23 26 | 19 19 | 3 48 | 18 54 | 4 35 | 16 45 | 1 36 | 24 11 | 0 42 | 23 14 | 0 1 | 20 55 | 0 25 | 23 32 | 0 11 | 21 43 | 1 23 | 13 8 | 9 21 | 2 31 | 2 33 | 8 34 | 2 42 | 2 10 |
| W26 | 23 24 | 13 34 | 2 51 | 18 50 | 4 39 | 16 22 | 1 32 | 24 12 | 0 43 | 23 15 | 0 1 | 20 53 | 0 25 | 23 32 | 0 11 | 21 43 | 1 23 | 13 8 | 9 21 | 2 29 | 2 32 | 8 31 | 2 43 | 2 9 |
| T 27 | 23 22 | 7 8 | 1 44 | 18 47 | 4 42 | 15 59 | 1 29 | 24 13 | 0 43 | 23 15 | 0 1 | 20 52 | 0 25 | 23 32 | 0 11 | 21 43 | 1 23 | 13 8 | 9 21 | 2 28 | 2 31 | 8 27 | 2 43 | 2 9 |
| F 28 | 23 19 | 0 24 | 0 31 | 18 45 | 4 43 | 15 36 | 1 25 | 24 13 | 0 44 | 23 16 | 0 2 | 20 50 | 0 25 | 23 32 | 0 11 | 21 43 | 1 23 | 13 8 | 9 21 | 2 28 | 2 29 | 8 24 | 2 44 | 2 8 |
| S 29 | 23 16 | 6n17 | 0n43 | 18 45 | 4 42 | 15 12 | 1 21 | 24 13 | 0 44 | 23 17 | 0 2 | 20 49 | 0 25 | 23 32 | 0 11 | 21 43 | 1 23 | 13 8 | 9 22 | 2 28 | 2 28 | 8 21 | 2 45 | 2 8 |
| S 30 | 23n12 | 12n35 | 1n53 | 18n47 | 4s41 | 14n48 | 1n17 | 24n13 | 0n45 | 23s17 | 0s 2 | 20n48 | 0n25 | 23s31 | 0s11 | 21s42 | 1n23 | 13n 8 | 9s22 | 2n27 | 2n27 | 8n18 | 2s46 | 2s 7 |

Julian Day Number = 2324592.5, Delta T = 41.63 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'19, Lahiri = 19°00'20Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## JULY 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 38 33 | 9♋32'57 | 11♉47 | 26°R46 | 24♌53 | 2♋54 | 7°R40 | 29♋13 | 23°R54 | 19°R36 | 13♊12 | 6°R 7 | 6♈ 6 | 13♍42 | 2♎ 7 | M 1 |
| T 2 | 18 42 30 | 10°30'10 | 25°18 | 26♊38 | 25°53 | 3°34 | 7♑33 | 29°20 | 23♐52 | 19♐35 | 13°13 | 6♈ 2 | 6° 2 | 13°48 | 2°11 | T 2 |
| W 3 | 18 46 26 | 11°27'22 | 8♊37 | 26°D35 | 26°53 | 4°14 | 7°25 | 29°28 | 23°49 | 19°33 | 13°14 | 5°54 | 5°59 | 13°55 | 2°15 | W 3 |
| T 4 | 18 50 23 | 12°24'35 | 21°45 | 26°37 | 27°52 | 4°54 | 7°17 | 29°36 | 23°47 | 19°32 | 13°16 | 5°44 | 5°56 | 14° 2 | 2°19 | T 4 |
| F 5 | 18 54 19 | 13°21'49 | 4♋41 | 26°44 | 28°51 | 5°34 | 7°10 | 29°43 | 23°45 | 19°30 | 13°17 | 5°31 | 5°53 | 14° 8 | 2°23 | F 5 |
| S 6 | 18 58 16 | 14°19'02 | 17°24 | 26°56 | 29°49 | 6°13 | 7° 2 | 29°51 | 23°42 | 19°29 | 13°18 | 5°19 | 5°50 | 14°15 | 2°27 | S 6 |
| S 7 | 19 2 12 | 15°16'16 | 29°53 | 27°13 | 0♍47 | 6°53 | 6°55 | 29°58 | 23°40 | 19°28 | 13°19 | 5° 6 | 5°47 | 14°22 | 2°31 | S 7 |
| M 8 | 19 6 9 | 16°13'30 | 12♌ 9 | 27°36 | 1°45 | 7°33 | 6°47 | 0♌ 6 | 23°38 | 19°26 | 13°21 | 4°55 | 5°43 | 14°28 | 2°35 | M 8 |
| T 9 | 19 10 5 | 17°10'44 | 24°13 | 28° 4 | 2°42 | 8°12 | 6°40 | 0°13 | 23°36 | 19°25 | 13°22 | 4°47 | 5°40 | 14°35 | 2°40 | T 9 |
| W10 | 19 14 2 | 18° 7'58 | 6♍ 8 | 28°38 | 3°39 | 8°52 | 6°32 | 0°21 | 23°34 | 19°23 | 13°23 | 4°41 | 5°37 | 14°42 | 2°44 | W10 |
| T 11 | 19 17 59 | 19° 5'12 | 17°57 | 29°17 | 4°35 | 9°32 | 6°25 | 0°29 | 23°32 | 19°22 | 13°24 | 4°38 | 5°34 | 14°48 | 2°49 | T 11 |
| F 12 | 19 21 55 | 20° 2'27 | 29°45 | 0♎ 1 | 5°31 | 10°11 | 6°17 | 0°36 | 23°29 | 19°21 | 13°25 | 4°D37 | 5°31 | 14°55 | 2°54 | F 12 |
| S 13 | 19 25 52 | 20°59'42 | 11♎35 | 0°50 | 6°26 | 10°51 | 6°10 | 0°44 | 23°27 | 19°19 | 13°26 | 4°37 | 5°27 | 15° 2 | 2°59 | S 13 |
| S 14 | 19 29 48 | 21°56'57 | 23°34 | 1°45 | 7°21 | 11°30 | 6° 3 | 0°52 | 23°25 | 19°18 | 13°28 | 4°R37 | 5°24 | 15° 8 | 3° 3 | S 14 |
| M15 | 19 33 45 | 22°54'12 | 5♏47 | 2°44 | 8°16 | 12°10 | 5°56 | 0°59 | 23°23 | 19°17 | 13°29 | 4°37 | 5°21 | 15°15 | 3° 8 | M15 |
| T 16 | 19 37 41 | 23°51'27 | 18°19 | 3°49 | 9° 9 | 12°49 | 5°49 | 1° 7 | 23°21 | 19°15 | 13°30 | 4°34 | 5°18 | 15°22 | 3°13 | T 16 |
| W17 | 19 41 38 | 24°48'43 | 1♐14 | 4°58 | 10° 3 | 13°28 | 5°42 | 1°15 | 23°19 | 19°14 | 13°31 | 4°29 | 5°15 | 15°28 | 3°19 | W17 |
| T 18 | 19 45 34 | 25°46'00 | 14°36 | 6°13 | 10°55 | 14° 8 | 5°35 | 1°23 | 23°17 | 19°13 | 13°32 | 4°22 | 5°12 | 15°35 | 3°24 | T 18 |
| F 19 | 19 49 31 | 26°43'16 | 28°24 | 7°32 | 11°47 | 14°47 | 5°28 | 1°30 | 23°15 | 19°12 | 13°33 | 4°13 | 5° 8 | 15°42 | 3°29 | F 19 |
| S 20 | 19 53 28 | 27°40'34 | 12♑38 | 8°56 | 12°39 | 15°26 | 5°22 | 1°38 | 23°14 | 19°11 | 13°34 | 4° 3 | 5° 5 | 15°48 | 3°35 | S 20 |
| S 21 | 19 57 24 | 28°37'52 | 27°12 | 10°24 | 13°29 | 16° 6 | 5°15 | 1°46 | 23°12 | 19° 9 | 13°35 | 3°54 | 5° 2 | 15°55 | 3°40 | S 21 |
| M22 | 20 1 21 | 29°35'10 | 11♒59 | 11°57 | 14°19 | 16°45 | 5° 9 | 1°54 | 23°10 | 19° 8 | 13°36 | 3°45 | 4°59 | 16° 2 | 3°46 | M22 |
| T 23 | 20 5 17 | 0♌32'29 | 26°52 | 13°34 | 15° 9 | 17°24 | 5° 2 | 2° 1 | 23° 8 | 19° 7 | 13°37 | 3°38 | 4°56 | 16° 8 | 3°51 | T 23 |
| W24 | 20 9 14 | 1°29'50 | 11♓41 | 15°15 | 15°57 | 18° 3 | 4°56 | 2° 9 | 23° 6 | 19° 6 | 13°38 | 3°34 | 4°53 | 16°15 | 3°57 | W24 |
| T 25 | 20 13 10 | 2°27'11 | 26°20 | 16°59 | 16°45 | 18°42 | 4°50 | 2°17 | 23° 5 | 19° 5 | 13°39 | 3°33 | 4°49 | 16°22 | 4° 3 | T 25 |
| F 26 | 20 17 7 | 3°24'33 | 10♈45 | 18°47 | 17°32 | 19°21 | 4°44 | 2°25 | 23° 3 | 19° 4 | 13°40 | 3°D33 | 4°46 | 16°28 | 4° 9 | F 26 |
| S 27 | 20 21 3 | 4°21'56 | 24°53 | 20°38 | 18°19 | 20° 0 | 4°38 | 2°32 | 23° 1 | 19° 3 | 13°41 | 3°33 | 4°43 | 16°35 | 4°15 | S 27 |
| S 28 | 20 25 0 | 5°19'21 | 8♉43 | 22°32 | 19° 4 | 20°39 | 4°33 | 2°40 | 23° 0 | 19° 2 | 13°42 | 3°R33 | 4°40 | 16°42 | 4°21 | S 28 |
| M29 | 20 28 57 | 6°16'47 | 22°16 | 24°28 | 19°49 | 21°18 | 4°27 | 2°48 | 22°58 | 19° 1 | 13°43 | 3°32 | 4°37 | 16°48 | 4°27 | M29 |
| T 30 | 20 32 53 | 7°14'14 | 5♊33 | 26°27 | 20°32 | 21°57 | 4°22 | 2°56 | 22°57 | 19° 0 | 13°44 | 3°29 | 4°33 | 16°55 | 4°33 | T 30 |
| W31 | 20 36 50 | 8♌11'43 | 18♊36 | 28♋27 | 21♍15 | 22♋36 | 4♑16 | 3♌ 3 | 22♐55 | 18♐59 | 13♊45 | 3♈23 | 4♈30 | 17♍ 1 | 4♎39 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23n 9 | 18n12 | 2n56 | 18n50 | 4s37 | 14n24 | 1n13 | 24n13 | 0n45 | 23s18 | 0s 2 | 20n46 | 0n25 | 23s31 | 0s11 | 21s42 | 1n23 | 13n 8 | 9s22 | 2n26 | 2n25 | 8n14 | 2s47 | 2s 7 |
| T 2 | 23 4 | 22 49 | 3 49 | 18 54 | 4 33 | 14 0 | 1 9 | 24 12 | 0 46 | 23 18 | 0 2 | 20 45 | 0 25 | 23 31 | 0 11 | 21 42 | 1 23 | 13 8 | 9 22 | 2 24 | 2 24 | 8 11 | 2 48 | 2 6 |
| W 3 | 23 0 | 26 11 | 4 27 | 19 0 | 4 27 | 13 35 | 1 4 | 24 11 | 0 46 | 23 19 | 0 2 | 20 43 | 0 25 | 23 31 | 0 11 | 21 42 | 1 23 | 13 8 | 9 22 | 2 21 | 2 23 | 8 8 | 2 49 | 2 6 |
| T 4 | 22 54 | 28 5 | 4 52 | 19 7 | 4 20 | 13 10 | 1 0 | 24 10 | 0 47 | 23 20 | 0 2 | 20 42 | 0 26 | 23 31 | 0 11 | 21 42 | 1 23 | 13 8 | 9 22 | 2 17 | 2 22 | 8 4 | 2 50 | 2 5 |
| F 5 | 22 49 | 28 24 | 5 0 | 19 15 | 4 12 | 12 46 | 0 55 | 24 9 | 0 47 | 23 20 | 0 3 | 20 40 | 0 26 | 23 31 | 0 11 | 21 42 | 1 22 | 13 9 | 9 22 | 2 12 | 2 20 | 8 1 | 2 51 | 2 4 |
| S 6 | 22 43 | 27 12 | 4 54 | 19 24 | 4 3 | 12 20 | 0 50 | 24 8 | 0 48 | 23 21 | 0 3 | 20 39 | 0 26 | 23 31 | 0 11 | 21 42 | 1 22 | 13 9 | 9 22 | 2 7 | 2 19 | 7 58 | 2 52 | 2 4 |
| S 7 | 22 37 | 24 40 | 4 33 | 19 34 | 3 53 | 11 55 | 0 45 | 24 6 | 0 48 | 23 21 | 0 3 | 20 37 | 0 26 | 23 31 | 0 11 | 21 42 | 1 22 | 13 9 | 9 22 | 2 2 | 2 18 | 7 54 | 2 53 | 2 3 |
| M 8 | 22 30 | 21 2 | 4 0 | 19 45 | 3 42 | 11 30 | 0 40 | 24 5 | 0 48 | 23 22 | 0 3 | 20 35 | 0 26 | 23 31 | 0 11 | 21 42 | 1 22 | 13 9 | 9 22 | 1 58 | 2 17 | 7 51 | 2 55 | 2 3 |
| T 9 | 22 23 | 16 34 | 3 17 | 19 57 | 3 31 | 11 4 | 0 34 | 24 3 | 0 49 | 23 22 | 0 3 | 20 34 | 0 26 | 23 31 | 0 11 | 21 42 | 1 22 | 13 9 | 9 22 | 1 54 | 2 15 | 7 48 | 2 56 | 2 2 |
| W10 | 22 15 | 11 31 | 2 25 | 20 10 | 3 19 | 10 38 | 0 29 | 24 1 | 0 49 | 23 23 | 0 3 | 20 32 | 0 26 | 23 30 | 0 11 | 21 42 | 1 22 | 13 9 | 9 22 | 1 52 | 2 14 | 7 44 | 2 57 | 2 2 |
| T 11 | 22 8 | 6 7 | 1 27 | 20 23 | 3 6 | 10 13 | 0 23 | 23 58 | 0 50 | 23 23 | 0 3 | 20 31 | 0 26 | 23 30 | 0 11 | 21 42 | 1 22 | 13 9 | 9 22 | 1 51 | 2 13 | 7 41 | 2 58 | 2 1 |
| F 12 | 21 59 | 0 30 | 0 26 | 20 36 | 2 53 | 9 47 | 0 17 | 23 56 | 0 50 | 23 24 | 0 4 | 20 29 | 0 26 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 22 | 1 50 | 2 12 | 7 37 | 3 0 | 2 1 |
| S 13 | 21 51 | 5s10 | 0s37 | 20 49 | 2 40 | 9 21 | 0 12 | 23 53 | 0 51 | 23 24 | 0 4 | 20 28 | 0 26 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 22 | 1 50 | 2 10 | 7 34 | 3 1 | 2 0 |
| S 14 | 21 42 | 10 42 | 1 39 | 21 3 | 2 26 | 8 55 | 0 5 | 23 50 | 0 51 | 23 25 | 0 4 | 20 26 | 0 26 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 22 | 1 50 | 2 9 | 7 31 | 3 3 | 2 0 |
| M15 | 21 32 | 15 57 | 2 38 | 21 16 | 2 12 | 8 28 | 0s 1 | 23 47 | 0 51 | 23 25 | 0 4 | 20 24 | 0 26 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 50 | 2 8 | 7 27 | 3 4 | 1 59 |
| T 16 | 21 23 | 20 41 | 3 30 | 21 28 | 1 58 | 8 2 | 0 7 | 23 44 | 0 52 | 23 26 | 0 4 | 20 23 | 0 26 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 49 | 2 7 | 7 24 | 3 6 | 1 58 |
| W17 | 21 12 | 24 35 | 4 14 | 21 40 | 1 43 | 7 36 | 0 14 | 23 40 | 0 52 | 23 26 | 0 4 | 20 21 | 0 27 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 47 | 2 5 | 7 21 | 3 7 | 1 58 |
| T 18 | 21 2 | 27 19 | 4 45 | 21 51 | 1 29 | 7 10 | 0 21 | 23 37 | 0 53 | 23 26 | 0 4 | 20 20 | 0 27 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 44 | 2 4 | 7 17 | 3 9 | 1 57 |
| F 19 | 20 51 | 28 30 | 5 2 | 22 2 | 1 15 | 6 44 | 0 28 | 23 33 | 0 53 | 23 27 | 0 5 | 20 18 | 0 27 | 23 30 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 41 | 2 3 | 7 14 | 3 11 | 1 57 |
| S 20 | 20 40 | 27 52 | 5 0 | 22 10 | 1 1 | 6 18 | 0 35 | 23 29 | 0 54 | 23 27 | 0 5 | 20 16 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 37 | 2 2 | 7 11 | 3 12 | 1 56 |
| S 21 | 20 29 | 25 19 | 4 39 | 22 18 | 0 47 | 5 51 | 0 42 | 23 24 | 0 54 | 23 28 | 0 5 | 20 15 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 33 | 2 0 | 7 7 | 3 14 | 1 56 |
| M22 | 20 17 | 21 3 | 3 59 | 22 24 | 0 33 | 5 25 | 0 49 | 23 20 | 0 54 | 23 28 | 0 5 | 20 13 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 30 | 1 59 | 7 4 | 3 16 | 1 55 |
| T 23 | 20 4 | 15 27 | 3 3 | 22 28 | 0 20 | 4 59 | 0 57 | 23 15 | 0 55 | 23 28 | 0 5 | 20 11 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 27 | 1 58 | 7 1 | 3 18 | 1 55 |
| W24 | 19 52 | 8 57 | 1 54 | 22 30 | 0 7 | 4 33 | 1 5 | 23 11 | 0 55 | 23 29 | 0 5 | 20 10 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 23 | 1 25 | 1 56 | 6 57 | 3 19 | 1 54 |
| T 25 | 19 39 | 2 3 | 0 38 | 22 30 | 0n 6 | 4 7 | 1 13 | 23 6 | 0 56 | 23 29 | 0 5 | 20 8 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 24 | 1 25 | 1 55 | 6 54 | 3 21 | 1 54 |
| F 26 | 19 26 | 4n51 | 0n39 | 22 27 | 0 18 | 3 42 | 1 21 | 23 1 | 0 56 | 23 30 | 0 5 | 20 6 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 24 | 1 25 | 1 54 | 6 50 | 3 23 | 1 53 |
| S 27 | 19 12 | 11 23 | 1 52 | 22 22 | 0 29 | 3 16 | 1 29 | 22 55 | 0 56 | 23 30 | 0 6 | 20 5 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 24 | 1 25 | 1 53 | 6 47 | 3 25 | 1 53 |
| S 28 | 18 59 | 17 13 | 2 57 | 22 15 | 0 39 | 2 51 | 1 37 | 22 50 | 0 57 | 23 30 | 0 6 | 20 3 | 0 27 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 24 | 1 25 | 1 51 | 6 44 | 3 27 | 1 52 |
| M29 | 18 44 | 22 5 | 3 50 | 22 5 | 0 49 | 2 25 | 1 46 | 22 44 | 0 57 | 23 31 | 0 6 | 20 1 | 0 28 | 23 29 | 0 11 | 21 41 | 1 22 | 13 9 | 9 24 | 1 25 | 1 50 | 6 40 | 3 29 | 1 52 |
| T 30 | 18 30 | 25 43 | 4 31 | 21 52 | 0 59 | 2 0 | 1 54 | 22 38 | 0 58 | 23 31 | 0 6 | 19 59 | 0 28 | 23 29 | 0 11 | 21 40 | 1 22 | 13 9 | 9 24 | 1 23 | 1 49 | 6 37 | 3 31 | 1 51 |
| W31 | 18n15 | 27n54 | 4n56 | 21n36 | 1n 7 | 1n35 | 2s 3 | 22n32 | 0n58 | 23s31 | 0s 6 | 19n58 | 0n28 | 23s29 | 0s11 | 21s40 | 1n22 | 13n 9 | 9s24 | 1n21 | 1n48 | 6n34 | 3s33 | 1s51 |

Julian Day Number = 2324622.5, Delta T = 41.57 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'24, Lahiri = 19°00'24Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## AUGUST 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 40 46 | 9♌ 9'12 | 1♋25 | 0♌28 | 21♍57 | 23♋15 | 4°R11 | 3♌11 | 22°R54 | 18°R58 | 13♊46 | 3°R16 | 4♈27 | 17♍ 8 | 4♎46 | T 1 |
| F 2 | 20 44 43 | 10° 6'43 | 14° 1 | 2°31 | 22°38 | 23°54 | 4♑ 6 | 3°19 | 22♐52 | 18♐57 | 13°46 | 3♈ 7 | 4°24 | 17°15 | 4°52 | F 2 |
| S 3 | 20 48 39 | 11° 4'16 | 26°27 | 4°34 | 23°17 | 24°33 | 4° 2 | 3°27 | 22°51 | 18°56 | 13°47 | 2°57 | 4°21 | 17°21 | 4°59 | S 3 |
| S 4 | 20 52 36 | 12° 1'49 | 8♌41 | 6°38 | 23°56 | 25°12 | 3°57 | 3°34 | 22°50 | 18°56 | 13°48 | 2°48 | 4°18 | 17°28 | 5° 5 | S 4 |
| M 5 | 20 56 33 | 12°59'23 | 20°46 | 8°42 | 24°34 | 25°50 | 3°52 | 3°42 | 22°48 | 18°55 | 13°49 | 2°40 | 4°14 | 17°35 | 5°12 | M 5 |
| T 6 | 21 0 29 | 13°56'59 | 2♍43 | 10°45 | 25°10 | 26°29 | 3°48 | 3°50 | 22°47 | 18°54 | 13°50 | 2°34 | 4°11 | 17°41 | 5°18 | T 6 |
| W 7 | 21 4 26 | 14°54'35 | 14°34 | 12°48 | 25°45 | 27° 8 | 3°44 | 3°57 | 22°46 | 18°53 | 13°51 | 2°30 | 4° 8 | 17°48 | 5°25 | W 7 |
| T 8 | 21 8 22 | 15°52'13 | 26°20 | 14°51 | 26°19 | 27°47 | 3°40 | 4° 5 | 22°45 | 18°53 | 13°51 | 2°28 | 4° 5 | 17°55 | 5°32 | T 8 |
| F 9 | 21 12 19 | 16°49'51 | 8♎ 7 | 16°53 | 26°51 | 28°25 | 3°36 | 4°13 | 22°44 | 18°52 | 13°52 | 2°D28 | 4° 2 | 18° 1 | 5°39 | F 9 |
| S 10 | 21 16 15 | 17°47'31 | 19°57 | 18°54 | 27°23 | 29° 4 | 3°32 | 4°20 | 22°43 | 18°51 | 13°53 | 2°29 | 3°59 | 18° 8 | 5°46 | S 10 |
| S 11 | 21 20 12 | 18°45'12 | 1♏55 | 20°54 | 27°52 | 29°42 | 3°29 | 4°28 | 22°42 | 18°51 | 13°53 | 2°31 | 3°55 | 18°15 | 5°53 | S 11 |
| M12 | 21 24 8 | 19°42'54 | 14° 7 | 22°52 | 28°21 | 0♌21 | 3°26 | 4°35 | 22°41 | 18°50 | 13°54 | 2°R32 | 3°52 | 18°21 | 6° 0 | M12 |
| T 13 | 21 28 5 | 20°40'37 | 26°37 | 24°50 | 28°47 | 1° 0 | 3°22 | 4°43 | 22°40 | 18°50 | 13°55 | 2°32 | 3°49 | 18°28 | 6° 7 | T 13 |
| W14 | 21 32 1 | 21°38'21 | 9♐29 | 26°46 | 29°12 | 1°38 | 3°19 | 4°51 | 22°39 | 18°49 | 13°55 | 2°30 | 3°46 | 18°35 | 6°14 | W14 |
| T 15 | 21 35 58 | 22°36'06 | 22°48 | 28°41 | 29°36 | 2°17 | 3°17 | 4°58 | 22°38 | 18°49 | 13°56 | 2°27 | 3°43 | 18°41 | 6°22 | T 15 |
| F 16 | 21 39 55 | 23°33'53 | 6♑35 | 0♍35 | 29°57 | 2°55 | 3°14 | 5° 6 | 22°37 | 18°48 | 13°57 | 2°22 | 3°39 | 18°48 | 6°29 | F 16 |
| S 17 | 21 43 51 | 24°31'40 | 20°51 | 2°27 | 0♎17 | 3°33 | 3°12 | 5°13 | 22°37 | 18°48 | 13°57 | 2°17 | 3°36 | 18°55 | 6°36 | S 17 |
| S 18 | 21 47 48 | 25°29'29 | 5♒31 | 4°18 | 0°35 | 4°12 | 3° 9 | 5°21 | 22°36 | 18°47 | 13°58 | 2°11 | 3°33 | 19° 1 | 6°44 | S 18 |
| M19 | 21 51 44 | 26°27'20 | 20°29 | 6° 8 | 0°51 | 4°50 | 3° 7 | 5°28 | 22°35 | 18°47 | 13°58 | 2° 6 | 3°30 | 19° 8 | 6°51 | M19 |
| T 20 | 21 55 41 | 27°25'11 | 5♓37 | 7°56 | 1° 6 | 5°29 | 3° 6 | 5°35 | 22°35 | 18°46 | 13°59 | 2° 3 | 3°27 | 19°14 | 6°59 | T 20 |
| W21 | 21 59 37 | 28°23'04 | 20°45 | 9°43 | 1°18 | 6° 7 | 3° 4 | 5°43 | 22°34 | 18°46 | 13°59 | 2° 1 | 3°24 | 19°21 | 7° 6 | W21 |
| T 22 | 22 3 34 | 29°20'59 | 5♈43 | 11°29 | 1°28 | 6°45 | 3° 2 | 5°50 | 22°34 | 18°46 | 14° 0 | 2°D 1 | 3°20 | 19°28 | 7°14 | T 22 |
| F 23 | 22 7 30 | 0♍18'56 | 20°26 | 13°13 | 1°36 | 7°23 | 3° 1 | 5°57 | 22°33 | 18°46 | 14° 0 | 2° 1 | 3°17 | 19°34 | 7°22 | F 23 |
| S 24 | 22 11 27 | 1°16'54 | 4♉48 | 14°56 | 1°42 | 8° 2 | 3° 0 | 6° 5 | 22°33 | 18°45 | 14° 1 | 2° 3 | 3°14 | 19°41 | 7°29 | S 24 |
| S 25 | 22 15 24 | 2°14'55 | 18°46 | 16°38 | 1°45 | 8°40 | 2°59 | 6°12 | 22°32 | 18°45 | 14° 1 | 2° 4 | 3°11 | 19°48 | 7°37 | S 25 |
| M26 | 22 19 20 | 3°12'57 | 2♊21 | 18°18 | 1°R46 | 9°18 | 2°58 | 6°19 | 22°32 | 18°45 | 14° 1 | 2°R 5 | 3° 8 | 19°54 | 7°45 | M26 |
| T 27 | 22 23 17 | 4°11'02 | 15°35 | 19°57 | 1°45 | 9°56 | 2°58 | 6°26 | 22°32 | 18°45 | 14° 2 | 2° 4 | 3° 5 | 20° 1 | 7°53 | T 27 |
| W28 | 22 27 13 | 5° 9'08 | 28°29 | 21°35 | 1°42 | 10°34 | 2°57 | 6°33 | 22°32 | 18°45 | 14° 2 | 2° 2 | 3° 1 | 20° 8 | 8° 1 | W28 |
| T 29 | 22 31 10 | 6° 7'17 | 11♋ 6 | 23°12 | 1°36 | 11°12 | 2°D57 | 6°41 | 22°31 | 18°45 | 14° 3 | 2° 0 | 2°58 | 20°14 | 8° 9 | T 29 |
| F 30 | 22 35 6 | 7° 5'27 | 23°29 | 24°48 | 1°28 | 11°51 | 2°57 | 6°48 | 22°31 | 18°D45 | 14° 3 | 1°56 | 2°55 | 20°21 | 8°17 | F 30 |
| S 31 | 22 39 3 | 8♍ 3'39 | 5♌41 | 26♍22 | 1♎18 | 12♌29 | 2♑58 | 6♌55 | 22°D31 | 18♐45 | 14♊ 3 | 1♈52 | 2♈52 | 20♍28 | 8♎25 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n 0 | 28n34 | 5n 6 | 21n18 | 1n15 | 1n10 | 2s12 | 22n26 | 0n58 | 23s31 | 0s 6 | 19n56 | 0n28 | 23s28 | 0s11 | 21s40 | 1n22 | 13n 9 | 9s24 | 1n18 | 1n46 | 6n30 | 3s35 | 1s51 |
| F 2 | 17 45 | 27 43 | 5 0 | 20 57 | 1 21 | 0 46 | 2 22 | 22 20 | 0 59 | 23 32 | 0 6 | 19 54 | 0 28 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 24 | 1 14 | 1 45 | 6 27 | 3 37 | 1 50 |
| S 3 | 17 29 | 25 30 | 4 41 | 20 34 | 1 27 | 0 22 | 2 31 | 22 13 | 0 59 | 23 32 | 0 6 | 19 53 | 0 28 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 25 | 1 11 | 1 44 | 6 23 | 3 39 | 1 50 |
| S 4 | 17 13 | 22 7 | 4 9 | 20 8 | 1 32 | 0s 2 | 2 40 | 22 7 | 0 59 | 23 32 | 0 7 | 19 51 | 0 28 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 25 | 1 7 | 1 43 | 6 20 | 3 42 | 1 49 |
| M 5 | 16 57 | 17 50 | 3 25 | 19 40 | 1 37 | 0 26 | 2 50 | 22 0 | 1 0 | 23 33 | 0 7 | 19 49 | 0 28 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 25 | 1 4 | 1 41 | 6 17 | 3 44 | 1 49 |
| T 6 | 16 40 | 12 55 | 2 34 | 19 10 | 1 40 | 0 49 | 3 0 | 21 53 | 1 0 | 23 33 | 0 7 | 19 48 | 0 28 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 25 | 1 1 | 1 40 | 6 13 | 3 46 | 1 48 |
| W 7 | 16 24 | 7 33 | 1 35 | 18 38 | 1 43 | 1 13 | 3 10 | 21 46 | 1 1 | 23 33 | 0 7 | 19 46 | 0 28 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 25 | 1 0 | 1 39 | 6 10 | 3 48 | 1 48 |
| T 8 | 16 7 | 1 58 | 0 33 | 18 5 | 1 44 | 1 35 | 3 20 | 21 39 | 1 1 | 23 33 | 0 7 | 19 44 | 0 28 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 25 | 0 59 | 1 38 | 6 7 | 3 51 | 1 47 |
| F 9 | 15 49 | 3s42 | 0s31 | 17 29 | 1 46 | 1 58 | 3 30 | 21 31 | 1 1 | 23 33 | 0 7 | 19 42 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 25 | 0 59 | 1 36 | 6 3 | 3 53 | 1 47 |
| S 10 | 15 32 | 9 15 | 1 33 | 16 52 | 1 46 | 2 19 | 3 40 | 21 24 | 1 2 | 23 34 | 0 7 | 19 41 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 26 | 0 59 | 1 35 | 6 0 | 3 55 | 1 46 |
| S 11 | 15 14 | 14 33 | 2 33 | 16 14 | 1 46 | 2 41 | 3 51 | 21 16 | 1 2 | 23 34 | 0 7 | 19 39 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 26 | 1 0 | 1 34 | 5 56 | 3 58 | 1 46 |
| M12 | 14 56 | 19 24 | 3 27 | 15 34 | 1 45 | 3 2 | 4 1 | 21 8 | 1 2 | 23 34 | 0 8 | 19 37 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 26 | 1 0 | 1 32 | 5 53 | 4 0 | 1 45 |
| T 13 | 14 38 | 23 31 | 4 12 | 14 54 | 1 43 | 3 22 | 4 12 | 21 0 | 1 3 | 23 34 | 0 8 | 19 35 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 26 | 1 0 | 1 31 | 5 50 | 4 3 | 1 45 |
| W14 | 14 19 | 26 38 | 4 46 | 14 12 | 1 41 | 3 42 | 4 23 | 20 52 | 1 3 | 23 34 | 0 8 | 19 34 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 26 | 1 0 | 1 30 | 5 46 | 4 5 | 1 45 |
| T 15 | 14 0 | 28 23 | 5 7 | 13 30 | 1 39 | 4 1 | 4 34 | 20 43 | 1 3 | 23 35 | 0 8 | 19 32 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 26 | 0 59 | 1 29 | 5 43 | 4 7 | 1 44 |
| F 16 | 13 42 | 28 29 | 5 10 | 12 47 | 1 36 | 4 20 | 4 45 | 20 35 | 1 4 | 23 35 | 0 8 | 19 30 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 9 | 9 26 | 0 57 | 1 27 | 5 39 | 4 10 | 1 44 |
| S 17 | 13 22 | 26 43 | 4 55 | 12 3 | 1 32 | 4 38 | 4 56 | 20 26 | 1 4 | 23 35 | 0 8 | 19 29 | 0 29 | 23 28 | 0 11 | 21 40 | 1 21 | 13 8 | 9 27 | 0 55 | 1 26 | 5 36 | 4 13 | 1 43 |
| S 18 | 13 3 | 23 8 | 4 20 | 11 19 | 1 28 | 4 56 | 5 7 | 20 17 | 1 4 | 23 35 | 0 8 | 19 27 | 0 29 | 23 27 | 0 11 | 21 40 | 1 21 | 13 8 | 9 27 | 0 52 | 1 25 | 5 33 | 4 15 | 1 43 |
| M19 | 12 43 | 17 58 | 3 27 | 10 35 | 1 24 | 5 12 | 5 18 | 20 9 | 1 5 | 23 35 | 0 8 | 19 25 | 0 30 | 23 27 | 0 11 | 21 40 | 1 21 | 13 8 | 9 27 | 0 50 | 1 24 | 5 29 | 4 18 | 1 42 |
| T 20 | 12 24 | 11 38 | 2 19 | 9 50 | 1 19 | 5 28 | 5 29 | 20 0 | 1 5 | 23 35 | 0 8 | 19 23 | 0 30 | 23 27 | 0 11 | 21 40 | 1 21 | 13 8 | 9 27 | 0 49 | 1 22 | 5 26 | 4 20 | 1 42 |
| W21 | 12 4 | 4 37 | 1 1 | 9 5 | 1 14 | 5 43 | 5 40 | 19 50 | 1 6 | 23 36 | 0 9 | 19 22 | 0 30 | 23 27 | 0 11 | 21 40 | 1 21 | 13 8 | 9 27 | 0 48 | 1 21 | 5 22 | 4 23 | 1 42 |
| T 22 | 11 43 | 2n35 | 0n20 | 8 20 | 1 8 | 5 57 | 5 52 | 19 41 | 1 6 | 23 36 | 0 9 | 19 20 | 0 30 | 23 27 | 0 11 | 21 40 | 1 21 | 13 8 | 9 27 | 0 48 | 1 20 | 5 19 | 4 26 | 1 41 |
| F 23 | 11 23 | 9 32 | 1 39 | 7 34 | 1 3 | 6 11 | 6 3 | 19 32 | 1 6 | 23 36 | 0 9 | 19 18 | 0 30 | 23 27 | 0 11 | 21 40 | 1 20 | 13 8 | 9 28 | 0 48 | 1 19 | 5 16 | 4 28 | 1 41 |
| S 24 | 11 2 | 15 49 | 2 50 | 6 49 | 0 57 | 6 23 | 6 14 | 19 22 | 1 7 | 23 36 | 0 9 | 19 17 | 0 30 | 23 27 | 0 11 | 21 40 | 1 20 | 13 8 | 9 28 | 0 49 | 1 17 | 5 12 | 4 31 | 1 40 |
| S 25 | 10 42 | 21 6 | 3 49 | 6 4 | 0 50 | 6 35 | 6 25 | 19 12 | 1 7 | 23 36 | 0 9 | 19 15 | 0 30 | 23 27 | 0 11 | 21 41 | 1 20 | 13 8 | 9 28 | 0 49 | 1 16 | 5 9 | 4 34 | 1 40 |
| M26 | 10 21 | 25 8 | 4 33 | 5 18 | 0 44 | 6 45 | 6 35 | 19 3 | 1 7 | 23 36 | 0 9 | 19 13 | 0 30 | 23 27 | 0 11 | 21 41 | 1 20 | 13 8 | 9 28 | 0 50 | 1 15 | 5 5 | 4 36 | 1 40 |
| T 27 | 10 0 | 27 42 | 5 1 | 4 33 | 0 37 | 6 54 | 6 46 | 18 53 | 1 8 | 23 36 | 0 9 | 19 11 | 0 30 | 23 27 | 0 11 | 21 41 | 1 20 | 13 7 | 9 28 | 0 50 | 1 14 | 5 2 | 4 39 | 1 39 |
| W28 | 9 38 | 28 42 | 5 13 | 3 48 | 0 30 | 7 3 | 6 57 | 18 43 | 1 8 | 23 37 | 0 9 | 19 10 | 0 31 | 23 27 | 0 11 | 21 41 | 1 20 | 13 7 | 9 28 | 0 49 | 1 12 | 4 59 | 4 42 | 1 39 |
| T 29 | 9 17 | 28 10 | 5 10 | 3 3 | 0 23 | 7 10 | 7 7 | 18 32 | 1 8 | 23 37 | 0 9 | 19 8 | 0 31 | 23 27 | 0 11 | 21 41 | 1 20 | 13 7 | 9 28 | 0 48 | 1 11 | 4 55 | 4 45 | 1 38 |
| F 30 | 8 56 | 26 14 | 4 52 | 2 19 | 0 16 | 7 16 | 7 17 | 18 22 | 1 9 | 23 37 | 0 9 | 19 6 | 0 31 | 23 27 | 0 11 | 21 41 | 1 20 | 13 7 | 9 29 | 0 46 | 1 10 | 4 52 | 4 47 | 1 38 |
| S 31 | 8n34 | 23n 6 | 4n21 | 1n34 | 0n 8 | 7s20 | 7s27 | 18n12 | 1n 9 | 23s37 | 0s10 | 19n 5 | 0n31 | 23s27 | 0s11 | 21s41 | 1n20 | 13n 7 | 9s29 | 0n45 | 1n 8 | 4n48 | 4s50 | 1s38 |

Julian Day Number = 2324653.5, Delta T = 41.51 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'28, Lahiri = 19°00'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## SEPTEMBER 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 42 59 | 9♍ 1'53 | 17♌43 | 27♍55 | 1°R 5 | 13♌ 7 | 2♑58 | 7♌ 2 | 22♐31 | 18♐45 | 14♊ 3 | 1°R48 | 2♈49 | 20♍34 | 8♎33 | S 1 |
| M 2 | 22 46 56 | 10° 0'09 | 29°39 | 29°27 | 0♎50 | 13°45 | 2°59 | 7° 9 | 22°31 | 18°45 | 14° 4 | 1♈45 | 2°45 | 20°41 | 8°41 | M 2 |
| T 3 | 22 50 53 | 10°58'27 | 11♍29 | 0♎58 | 0°32 | 14°23 | 2°59 | 7°16 | 22°31 | 18°45 | 14° 4 | 1°42 | 2°42 | 20°48 | 8°49 | T 3 |
| W 4 | 22 54 49 | 11°56'46 | 23°17 | 2°28 | 0°13 | 15° 1 | 3° 0 | 7°22 | 22°32 | 18°45 | 14° 4 | 1°41 | 2°39 | 20°54 | 8°57 | W 4 |
| T 5 | 22 58 46 | 12°55'07 | 5♎ 4 | 3°56 | 29♍51 | 15°38 | 3° 2 | 7°29 | 22°32 | 18°45 | 14° 4 | 1°D41 | 2°36 | 21° 1 | 9° 6 | T 5 |
| F 6 | 23 2 42 | 13°53'30 | 16°52 | 5°23 | 29°27 | 16°16 | 3° 3 | 7°36 | 22°32 | 18°45 | 14° 4 | 1°42 | 2°33 | 21° 7 | 9°14 | F 6 |
| S 7 | 23 6 39 | 14°51'55 | 28°45 | 6°49 | 29° 1 | 16°54 | 3° 5 | 7°43 | 22°32 | 18°46 | 14° 5 | 1°43 | 2°30 | 21°14 | 9°22 | S 7 |
| S 8 | 23 10 35 | 15°50'22 | 10♏47 | 8°14 | 28°33 | 17°32 | 3° 6 | 7°50 | 22°33 | 18°46 | 14° 5 | 1°44 | 2°26 | 21°21 | 9°31 | S 8 |
| M 9 | 23 14 32 | 16°48'50 | 23° 0 | 9°37 | 28° 3 | 18°10 | 3° 8 | 7°56 | 22°33 | 18°46 | 14° 5 | 1°46 | 2°23 | 21°27 | 9°39 | M 9 |
| T 10 | 23 18 28 | 17°47'19 | 5♐29 | 10°59 | 27°31 | 18°48 | 3°10 | 8° 3 | 22°34 | 18°47 | 14° 5 | 1°46 | 2°20 | 21°34 | 9°47 | T 10 |
| W11 | 23 22 25 | 18°45'51 | 18°19 | 12°20 | 26°59 | 19°25 | 3°13 | 8° 9 | 22°34 | 18°47 | 14° 5 | 1°R47 | 2°17 | 21°41 | 9°56 | W11 |
| T 12 | 23 26 22 | 19°44'24 | 1♑31 | 13°39 | 26°24 | 20° 3 | 3°15 | 8°16 | 22°35 | 18°47 | 14° 5 | 1°47 | 2°14 | 21°47 | 10° 4 | T 12 |
| F 13 | 23 30 18 | 20°42'59 | 15°10 | 14°58 | 25°49 | 20°41 | 3°18 | 8°22 | 22°35 | 18°48 | 14°R 5 | 1°46 | 2°11 | 21°54 | 10°13 | F 13 |
| S 14 | 23 34 15 | 21°41'35 | 29°16 | 16°14 | 25°13 | 21°19 | 3°21 | 8°29 | 22°36 | 18°48 | 14° 5 | 1°45 | 2° 7 | 22° 1 | 10°21 | S 14 |
| S 15 | 23 38 11 | 22°40'14 | 13♒48 | 17°29 | 24°37 | 21°56 | 3°24 | 8°35 | 22°37 | 18°49 | 14° 5 | 1°44 | 2° 4 | 22° 7 | 10°30 | S 15 |
| M16 | 23 42 8 | 23°38'53 | 28°41 | 18°42 | 24° 0 | 22°34 | 3°27 | 8°41 | 22°37 | 18°49 | 14° 5 | 1°43 | 2° 1 | 22°14 | 10°38 | M16 |
| T 17 | 23 46 4 | 24°37'35 | 13♓49 | 19°54 | 23°23 | 23°11 | 3°30 | 8°47 | 22°38 | 18°50 | 14° 5 | 1°42 | 1°58 | 22°21 | 10°47 | T 17 |
| W18 | 23 50 1 | 25°36'19 | 29° 2 | 21° 4 | 22°46 | 23°49 | 3°34 | 8°54 | 22°39 | 18°50 | 14° 5 | 1°D42 | 1°55 | 22°27 | 10°55 | W18 |
| T 19 | 23 53 57 | 26°35'04 | 14♈12 | 22°12 | 22° 9 | 24°27 | 3°38 | 9° 0 | 22°40 | 18°51 | 14° 5 | 1°42 | 1°51 | 22°34 | 11° 4 | T 19 |
| F 20 | 23 57 54 | 27°33'52 | 29° 8 | 23°18 | 21°33 | 25° 4 | 3°42 | 9° 6 | 22°41 | 18°52 | 14° 4 | 1°42 | 1°48 | 22°41 | 11°13 | F 20 |
| S 21 | 0 1 51 | 28°32'42 | 13♉45 | 24°22 | 20°58 | 25°42 | 3°46 | 9°12 | 22°42 | 18°52 | 14° 4 | 1°42 | 1°45 | 22°47 | 11°21 | S 21 |
| S 22 | 0 5 47 | 29°31'34 | 27°56 | 25°23 | 20°24 | 26°19 | 3°50 | 9°18 | 22°43 | 18°53 | 14° 4 | 1°43 | 1°42 | 22°54 | 11°30 | S 22 |
| M23 | 0 9 44 | 0♎30'28 | 11♊40 | 26°22 | 19°52 | 26°56 | 3°55 | 9°23 | 22°44 | 18°54 | 14° 4 | 1°43 | 1°39 | 23° 0 | 11°39 | M23 |
| T 24 | 0 13 40 | 1°29'25 | 24°58 | 27°18 | 19°20 | 27°34 | 3°59 | 9°29 | 22°45 | 18°55 | 14° 4 | 1°43 | 1°36 | 23° 7 | 11°47 | T 24 |
| W25 | 0 17 37 | 2°28'24 | 7♋53 | 28°12 | 18°51 | 28°11 | 4° 4 | 9°35 | 22°47 | 18°55 | 14° 3 | 1°43 | 1°32 | 23°14 | 11°56 | W25 |
| T 26 | 0 21 33 | 3°27'26 | 20°26 | 29° 2 | 18°23 | 28°49 | 4° 9 | 9°40 | 22°48 | 18°56 | 14° 3 | 1°43 | 1°29 | 23°20 | 12° 5 | T 26 |
| F 27 | 0 25 30 | 4°26'30 | 2♌43 | 29°49 | 17°58 | 29°26 | 4°14 | 9°46 | 22°49 | 18°57 | 14° 3 | 1°43 | 1°26 | 23°27 | 12°14 | F 27 |
| S 28 | 0 29 26 | 5°25'36 | 14°46 | 0♏32 | 17°34 | 0♍ 3 | 4°20 | 9°52 | 22°51 | 18°58 | 14° 3 | 1°44 | 1°23 | 23°34 | 12°22 | S 28 |
| S 29 | 0 33 23 | 6°24'44 | 26°41 | 1°11 | 17°13 | 0°41 | 4°25 | 9°57 | 22°52 | 18°59 | 14° 2 | 1°44 | 1°20 | 23°40 | 12°31 | S 29 |
| M30 | 0 37 20 | 7♎23'55 | 8♍31 | 1♏45 | 16♍53 | 1♍18 | 4♑31 | 10♌ 2 | 22♐54 | 19♐ 0 | 14♊ 2 | 1♈45 | 1♈16 | 23♍47 | 12♎40 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n12 | 19n 1 | 3n39 | 0n50 | 0n 1 | 7s24 | 7s36 | 18n 1 | 1n 9 | 23s37 | 0s10 | 19n 3 | 0n31 | 23s27 | 0s11 | 21s41 | 1n20 | 13n 7 | 9s29 | 0n43 | 1n 7 | 4n45 | 4s53 | 1s37 |
| M 2 | 7 50 | 14 14 | 2 48 | 0 7 | 0s 7 | 7 26 | 7 45 | 17 51 | 1 9 | 23 37 | 0 10 | 19 1 | 0 31 | 23 27 | 0 11 | 21 41 | 1 20 | 13 7 | 9 29 | 0 42 | 1 6 | 4 41 | 4 56 | 1 37 |
| T 3 | 7 28 | 8 57 | 1 49 | 0s37 | 0 15 | 7 27 | 7 53 | 17 40 | 1 10 | 23 37 | 0 10 | 19 0 | 0 31 | 23 27 | 0 11 | 21 41 | 1 20 | 13 7 | 9 29 | 0 41 | 1 5 | 4 38 | 4 59 | 1 37 |
| W 4 | 7 6 | 3 23 | 0 46 | 1 20 | 0 23 | 7 26 | 8 1 | 17 29 | 1 10 | 23 37 | 0 10 | 18 58 | 0 31 | 23 27 | 0 11 | 21 41 | 1 20 | 13 6 | 9 29 | 0 40 | 1 3 | 4 35 | 5 2 | 1 36 |
| T 5 | 6 43 | 2s18 | 0s19 | 2 2 | 0 31 | 7 24 | 8 8 | 17 18 | 1 10 | 23 37 | 0 10 | 18 56 | 0 31 | 23 27 | 0 11 | 21 41 | 1 20 | 13 6 | 9 30 | 0 40 | 1 2 | 4 31 | 5 5 | 1 36 |
| F 6 | 6 21 | 7 55 | 1 23 | 2 44 | 0 39 | 7 21 | 8 15 | 17 7 | 1 11 | 23 37 | 0 10 | 18 55 | 0 32 | 23 27 | 0 11 | 21 41 | 1 20 | 13 6 | 9 30 | 0 41 | 1 1 | 4 28 | 5 8 | 1 35 |
| S 7 | 5 58 | 13 18 | 2 24 | 3 26 | 0 47 | 7 16 | 8 21 | 16 56 | 1 11 | 23 37 | 0 10 | 18 53 | 0 32 | 23 27 | 0 11 | 21 41 | 1 20 | 13 6 | 9 30 | 0 41 | 1 0 | 4 24 | 5 11 | 1 35 |
| S 8 | 5 36 | 18 15 | 3 20 | 4 7 | 0 55 | 7 10 | 8 27 | 16 44 | 1 11 | 23 37 | 0 10 | 18 52 | 0 32 | 23 27 | 0 11 | 21 41 | 1 20 | 13 6 | 9 30 | 0 42 | 0 58 | 4 21 | 5 14 | 1 35 |
| M 9 | 5 13 | 22 33 | 4 8 | 4 47 | 1 3 | 7 2 | 8 31 | 16 33 | 1 12 | 23 37 | 0 10 | 18 50 | 0 32 | 23 27 | 0 11 | 21 41 | 1 20 | 13 6 | 9 30 | 0 42 | 0 57 | 4 18 | 5 16 | 1 34 |
| T 10 | 4 50 | 25 56 | 4 45 | 5 27 | 1 11 | 6 53 | 8 35 | 16 22 | 1 12 | 23 37 | 0 11 | 18 48 | 0 32 | 23 27 | 0 11 | 21 41 | 1 20 | 13 5 | 9 30 | 0 42 | 0 56 | 4 14 | 5 19 | 1 34 |
| W11 | 4 27 | 28 6 | 5 9 | 6 6 | 1 19 | 6 43 | 8 38 | 16 10 | 1 12 | 23 38 | 0 11 | 18 47 | 0 32 | 23 27 | 0 11 | 21 42 | 1 19 | 13 5 | 9 31 | 0 43 | 0 55 | 4 11 | 5 22 | 1 34 |
| T 12 | 4 4 | 28 46 | 5 17 | 6 44 | 1 27 | 6 31 | 8 40 | 15 58 | 1 13 | 23 38 | 0 11 | 18 45 | 0 32 | 23 27 | 0 11 | 21 42 | 1 19 | 13 5 | 9 31 | 0 42 | 0 53 | 4 7 | 5 25 | 1 33 |
| F 13 | 3 41 | 27 44 | 5 9 | 7 22 | 1 35 | 6 18 | 8 41 | 15 47 | 1 13 | 23 38 | 0 11 | 18 44 | 0 32 | 23 27 | 0 11 | 21 42 | 1 19 | 13 5 | 9 31 | 0 42 | 0 52 | 4 4 | 5 28 | 1 33 |
| S 14 | 3 18 | 24 56 | 4 41 | 7 59 | 1 43 | 6 5 | 8 42 | 15 35 | 1 13 | 23 38 | 0 11 | 18 42 | 0 33 | 23 28 | 0 11 | 21 42 | 1 19 | 13 5 | 9 31 | 0 42 | 0 51 | 4 0 | 5 32 | 1 33 |
| S 15 | 2 55 | 20 29 | 3 56 | 8 35 | 1 51 | 5 49 | 8 41 | 15 23 | 1 13 | 23 38 | 0 11 | 18 41 | 0 33 | 23 28 | 0 11 | 21 42 | 1 19 | 13 5 | 9 31 | 0 41 | 0 49 | 3 57 | 5 35 | 1 32 |
| M16 | 2 32 | 14 40 | 2 53 | 9 10 | 1 59 | 5 33 | 8 39 | 15 11 | 1 14 | 23 38 | 0 11 | 18 39 | 0 33 | 23 28 | 0 11 | 21 42 | 1 19 | 13 4 | 9 31 | 0 41 | 0 48 | 3 54 | 5 38 | 1 32 |
| T 17 | 2 8 | 7 53 | 1 38 | 9 45 | 2 6 | 5 16 | 8 37 | 14 59 | 1 14 | 23 38 | 0 11 | 18 38 | 0 33 | 23 28 | 0 11 | 21 42 | 1 19 | 13 4 | 9 32 | 0 41 | 0 47 | 3 50 | 5 41 | 1 32 |
| W18 | 1 45 | 0 37 | 0 15 | 10 18 | 2 14 | 4 59 | 8 33 | 14 47 | 1 14 | 23 38 | 0 11 | 18 36 | 0 33 | 23 28 | 0 11 | 21 42 | 1 19 | 13 4 | 9 32 | 0 41 | 0 46 | 3 47 | 5 44 | 1 31 |
| T 19 | 1 22 | 6n40 | 1n 9 | 10 50 | 2 21 | 4 40 | 8 29 | 14 34 | 1 15 | 23 38 | 0 11 | 18 35 | 0 33 | 23 28 | 0 11 | 21 42 | 1 19 | 13 4 | 9 32 | 0 41 | 0 44 | 3 43 | 5 47 | 1 31 |
| F 20 | 0 58 | 13 29 | 2 27 | 11 22 | 2 28 | 4 21 | 8 24 | 14 22 | 1 15 | 23 38 | 0 11 | 18 33 | 0 33 | 23 28 | 0 11 | 21 42 | 1 19 | 13 4 | 9 32 | 0 41 | 0 43 | 3 40 | 5 50 | 1 31 |
| S 21 | 0 35 | 19 23 | 3 33 | 11 52 | 2 35 | 4 2 | 8 17 | 14 10 | 1 15 | 23 37 | 0 11 | 18 32 | 0 33 | 23 28 | 0 11 | 21 43 | 1 19 | 13 4 | 9 32 | 0 41 | 0 42 | 3 36 | 5 53 | 1 30 |
| S 22 | 0 11 | 24 2 | 4 24 | 12 21 | 2 42 | 3 42 | 8 10 | 13 57 | 1 15 | 23 37 | 0 12 | 18 30 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 3 | 9 32 | 0 41 | 0 41 | 3 33 | 5 56 | 1 30 |
| M23 | 0s12 | 27 10 | 4 59 | 12 48 | 2 48 | 3 22 | 8 3 | 13 45 | 1 16 | 23 37 | 0 12 | 18 29 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 3 | 9 33 | 0 41 | 0 39 | 3 30 | 5 59 | 1 30 |
| T 24 | 0 36 | 28 39 | 5 16 | 13 15 | 2 54 | 3 2 | 7 54 | 13 32 | 1 16 | 23 37 | 0 12 | 18 27 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 3 | 9 33 | 0 41 | 0 38 | 3 26 | 6 2 | 1 29 |
| W25 | 0 59 | 28 31 | 5 16 | 13 39 | 3 0 | 2 43 | 7 45 | 13 19 | 1 16 | 23 37 | 0 12 | 18 26 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 3 | 9 33 | 0 41 | 0 37 | 3 23 | 6 5 | 1 29 |
| T 26 | 1 23 | 26 53 | 5 1 | 14 2 | 3 5 | 2 23 | 7 35 | 13 6 | 1 17 | 23 37 | 0 12 | 18 25 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 3 | 9 33 | 0 41 | 0 36 | 3 19 | 6 9 | 1 29 |
| F 27 | 1 46 | 24 1 | 4 33 | 14 24 | 3 10 | 2 3 | 7 25 | 12 54 | 1 17 | 23 37 | 0 12 | 18 23 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 3 | 9 33 | 0 41 | 0 34 | 3 16 | 6 12 | 1 28 |
| S 28 | 2 10 | 20 8 | 3 53 | 14 43 | 3 15 | 1 44 | 7 14 | 12 41 | 1 17 | 23 37 | 0 12 | 18 22 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 2 | 9 33 | 0 41 | 0 33 | 3 12 | 6 15 | 1 28 |
| S 29 | 2 33 | 15 30 | 3 3 | 15 1 | 3 19 | 1 25 | 7 2 | 12 28 | 1 17 | 23 37 | 0 12 | 18 21 | 0 34 | 23 28 | 0 11 | 21 43 | 1 19 | 13 2 | 9 34 | 0 41 | 0 32 | 3 9 | 6 18 | 1 28 |
| M30 | 2s56 | 10n20 | 2n 6 | 15s16 | 3s22 | 1s 7 | 6s51 | 12n15 | 1n18 | 23s37 | 0s12 | 18n19 | 0n35 | 23s28 | 0s11 | 21s44 | 1n19 | 13n 2 | 9s34 | 0n42 | 0n30 | 3n 5 | 6s21 | 1s27 |

Julian Day Number = 2324684.5, Delta T = 41.45 sec
Ecliptic obliquity = 23°29'14, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'32, Lahiri = 19°00'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## OCTOBER 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 41 16 | 8♎23'07 | 20♍18 | 2♏15 | 16°R37 | 1♍55 | 4♑37 | 10♌ 8 | 22♐55 | 19♐ 1 | 14°R 2 | 1♈45 | 1♈13 | 23♍54 | 12♎49 | T 1 |
| W 2 | 0 45 13 | 9°22'22 | 2♎ 5 | 2°39 | 16♍22 | 2°32 | 4°43 | 10°13 | 22°57 | 19° 2 | 14♊ 1 | 1°R45 | 1°10 | 24° 0 | 12°57 | W 2 |
| T 3 | 0 49 9 | 10°21'39 | 13°56 | 2°57 | 16°10 | 3°10 | 4°49 | 10°18 | 22°58 | 19° 3 | 14° 1 | 1°45 | 1° 7 | 24° 7 | 13° 6 | T 3 |
| F 4 | 0 53 6 | 11°20'58 | 25°51 | 3°10 | 16° 1 | 3°47 | 4°55 | 10°23 | 23° 0 | 19° 4 | 14° 0 | 1°44 | 1° 4 | 24°14 | 13°15 | F 4 |
| S 5 | 0 57 2 | 12°20'19 | 7♏53 | 3°R15 | 15°53 | 4°24 | 5° 2 | 10°28 | 23° 2 | 19° 5 | 14° 0 | 1°43 | 1° 1 | 24°20 | 13°24 | S 5 |
| S 6 | 1 0 59 | 13°19'42 | 20° 3 | 3°13 | 15°49 | 5° 1 | 5° 8 | 10°33 | 23° 3 | 19° 7 | 13°59 | 1°41 | 0°57 | 24°27 | 13°33 | S 6 |
| M 7 | 1 4 55 | 14°19'07 | 2♐26 | 3° 4 | 15°D46 | 5°38 | 5°15 | 10°38 | 23° 5 | 19° 8 | 13°59 | 1°40 | 0°54 | 24°34 | 13°41 | M 7 |
| T 8 | 1 8 52 | 15°18'33 | 15° 1 | 2°47 | 15°47 | 6°15 | 5°22 | 10°42 | 23° 7 | 19° 9 | 13°58 | 1°38 | 0°51 | 24°40 | 13°50 | T 8 |
| W 9 | 1 12 49 | 16°18'02 | 27°53 | 2°21 | 15°49 | 6°52 | 5°29 | 10°47 | 23° 9 | 19°10 | 13°58 | 1°37 | 0°48 | 24°47 | 13°59 | W 9 |
| T 10 | 1 16 45 | 17°17'32 | 11♑ 3 | 1°47 | 15°54 | 7°29 | 5°36 | 10°52 | 23°11 | 19°11 | 13°57 | 1°D36 | 0°45 | 24°53 | 14° 8 | T 10 |
| F 11 | 1 20 42 | 18°17'05 | 24°34 | 1° 4 | 16° 1 | 8° 6 | 5°44 | 10°56 | 23°13 | 19°13 | 13°57 | 1°36 | 0°42 | 25° 0 | 14°17 | F 11 |
| S 12 | 1 24 38 | 19°16'39 | 8♒26 | 0°13 | 16°10 | 8°43 | 5°51 | 11° 0 | 23°15 | 19°14 | 13°56 | 1°36 | 0°38 | 25° 7 | 14°25 | S 12 |
| S 13 | 1 28 35 | 20°16'14 | 22°41 | 29♎15 | 16°22 | 9°20 | 5°59 | 11° 5 | 23°17 | 19°15 | 13°56 | 1°38 | 0°35 | 25°13 | 14°34 | S 13 |
| M14 | 1 32 31 | 21°15'51 | 7♓17 | 28°10 | 16°35 | 9°57 | 6° 7 | 11° 9 | 23°19 | 19°17 | 13°55 | 1°39 | 0°32 | 25°20 | 14°43 | M14 |
| T 15 | 1 36 28 | 22°15'30 | 22° 9 | 27° 0 | 16°51 | 10°34 | 6°15 | 11°13 | 23°21 | 19°18 | 13°54 | 1°40 | 0°29 | 25°27 | 14°52 | T 15 |
| W16 | 1 40 24 | 23°15'11 | 7♈11 | 25°46 | 17° 8 | 11°10 | 6°23 | 11°17 | 23°23 | 19°20 | 13°54 | 1°R40 | 0°26 | 25°33 | 15° 0 | W16 |
| T 17 | 1 44 21 | 24°14'54 | 22°15 | 24°31 | 17°28 | 11°47 | 6°31 | 11°21 | 23°26 | 19°21 | 13°53 | 1°39 | 0°22 | 25°40 | 15° 9 | T 17 |
| F 18 | 1 48 17 | 25°14'39 | 7♉12 | 23°16 | 17°50 | 12°24 | 6°39 | 11°25 | 23°28 | 19°23 | 13°52 | 1°37 | 0°19 | 25°47 | 15°18 | F 18 |
| S 19 | 1 52 14 | 26°14'26 | 21°54 | 22° 4 | 18°13 | 13° 1 | 6°48 | 11°29 | 23°30 | 19°24 | 13°51 | 1°34 | 0°16 | 25°53 | 15°27 | S 19 |
| S 20 | 1 56 11 | 27°14'15 | 6♊14 | 20°58 | 18°38 | 13°37 | 6°56 | 11°32 | 23°32 | 19°26 | 13°51 | 1°30 | 0°13 | 26° 0 | 15°35 | S 20 |
| M21 | 2 0 7 | 28°14'06 | 20° 7 | 19°58 | 19° 5 | 14°14 | 7° 5 | 11°36 | 23°35 | 19°27 | 13°50 | 1°26 | 0°10 | 26° 7 | 15°44 | M21 |
| T 22 | 2 4 4 | 29°14'00 | 3♋33 | 19° 7 | 19°34 | 14°51 | 7°14 | 11°39 | 23°37 | 19°29 | 13°49 | 1°23 | 0° 7 | 26°13 | 15°53 | T 22 |
| W23 | 2 8 0 | 0♏13'56 | 16°33 | 18°27 | 20° 4 | 15°27 | 7°23 | 11°43 | 23°40 | 19°30 | 13°48 | 1°21 | 0° 3 | 26°20 | 16° 1 | W23 |
| T 24 | 2 11 57 | 1°13'54 | 29° 8 | 17°57 | 20°36 | 16° 4 | 7°32 | 11°46 | 23°42 | 19°32 | 13°48 | 1°D20 | 0° 0 | 26°27 | 16°10 | T 24 |
| F 25 | 2 15 53 | 2°13'54 | 11♌25 | 17°39 | 21° 9 | 16°40 | 7°41 | 11°49 | 23°45 | 19°34 | 13°47 | 1°20 | 29♓57 | 26°33 | 16°18 | F 25 |
| S 26 | 2 19 50 | 3°13'56 | 23°26 | 17°D32 | 21°44 | 17°17 | 7°51 | 11°52 | 23°47 | 19°35 | 13°46 | 1°22 | 29°54 | 26°40 | 16°27 | S 26 |
| S 27 | 2 23 47 | 4°14'00 | 5♍18 | 17°37 | 22°20 | 17°53 | 8° 0 | 11°55 | 23°50 | 19°37 | 13°45 | 1°24 | 29°51 | 26°46 | 16°36 | S 27 |
| M28 | 2 27 43 | 5°14'07 | 17° 5 | 17°53 | 22°57 | 18°30 | 8°10 | 11°58 | 23°53 | 19°39 | 13°44 | 1°25 | 29°48 | 26°53 | 16°44 | M28 |
| T 29 | 2 31 40 | 6°14'15 | 28°52 | 18°18 | 23°36 | 19° 6 | 8°20 | 12° 1 | 23°55 | 19°41 | 13°43 | 1°R26 | 29°44 | 27° 0 | 16°53 | T 29 |
| W30 | 2 35 36 | 7°14'25 | 10♎42 | 18°53 | 24°15 | 19°43 | 8°29 | 12° 4 | 23°58 | 19°42 | 13°43 | 1°26 | 29°41 | 27° 6 | 17° 1 | W30 |
| T 31 | 2 39 33 | 8♏14'38 | 22♎38 | 19♎36 | 24♍57 | 20♍19 | 8♑39 | 12♌ 6 | 24♐ 1 | 19♐44 | 13♊42 | 1♈23 | 29♓38 | 27♍13 | 17♎10 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s20 | 4n49 | 1n 3 | 15s28 | 3s25 | 0s49 | 6s38 | 12n 1 | 1n18 | 23s37 | 0s12 | 18n18 | 0n35 | 23s29 | 0s11 | 21s44 | 1n18 | 13n 2 | 9s34 | 0n42 | 0n29 | 3n 2 | 6s24 | 1s27 |
| W 2 | 3 43 | 0s52 | 0s 2 | 15 39 | 3 26 | 0 32 | 6 26 | 11 48 | 1 18 | 23 37 | 0 12 | 18 17 | 0 35 | 23 29 | 0 11 | 21 44 | 1 18 | 13 2 | 9 34 | 0 42 | 0 28 | 2 59 | 6 27 | 1 27 |
| T 3 | 4 7 | 6 32 | 1 7 | 15 46 | 3 27 | 0 16 | 6 13 | 11 35 | 1 18 | 23 36 | 0 12 | 18 15 | 0 35 | 23 29 | 0 11 | 21 44 | 1 18 | 13 1 | 9 34 | 0 42 | 0 27 | 2 55 | 6 31 | 1 26 |
| F 4 | 4 30 | 12 1 | 2 10 | 15 50 | 3 27 | 0 1 | 6 0 | 11 22 | 1 19 | 23 36 | 0 13 | 18 14 | 0 35 | 23 29 | 0 11 | 21 44 | 1 18 | 13 1 | 9 34 | 0 42 | 0 25 | 2 52 | 6 34 | 1 26 |
| S 5 | 4 53 | 17 7 | 3 7 | 15 51 | 3 26 | 0n14 | 5 48 | 11 8 | 1 19 | 23 36 | 0 13 | 18 13 | 0 35 | 23 29 | 0 11 | 21 44 | 1 18 | 13 1 | 9 34 | 0 41 | 0 24 | 2 48 | 6 37 | 1 26 |
| S 6 | 5 16 | 21 36 | 3 57 | 15 48 | 3 24 | 0 28 | 5 34 | 10 55 | 1 19 | 23 36 | 0 13 | 18 12 | 0 35 | 23 29 | 0 11 | 21 44 | 1 18 | 13 1 | 9 35 | 0 40 | 0 23 | 2 45 | 6 40 | 1 25 |
| M 7 | 5 39 | 25 12 | 4 36 | 15 41 | 3 20 | 0 41 | 5 21 | 10 42 | 1 19 | 23 36 | 0 13 | 18 11 | 0 36 | 23 29 | 0 11 | 21 45 | 1 18 | 13 1 | 9 35 | 0 40 | 0 22 | 2 41 | 6 43 | 1 25 |
| T 8 | 6 2 | 27 40 | 5 3 | 15 30 | 3 15 | 0 53 | 5 8 | 10 28 | 1 20 | 23 36 | 0 13 | 18 10 | 0 36 | 23 29 | 0 11 | 21 45 | 1 18 | 13 0 | 9 35 | 0 39 | 0 20 | 2 38 | 6 46 | 1 25 |
| W 9 | 6 25 | 28 44 | 5 16 | 15 15 | 3 8 | 1 4 | 4 55 | 10 15 | 1 20 | 23 35 | 0 13 | 18 8 | 0 36 | 23 29 | 0 11 | 21 45 | 1 18 | 13 0 | 9 35 | 0 38 | 0 19 | 2 34 | 6 50 | 1 25 |
| T 10 | 6 48 | 28 13 | 5 12 | 14 55 | 3 0 | 1 15 | 4 42 | 10 1 | 1 20 | 23 35 | 0 13 | 18 7 | 0 36 | 23 29 | 0 11 | 21 45 | 1 18 | 13 0 | 9 35 | 0 38 | 0 18 | 2 31 | 6 53 | 1 24 |
| F 11 | 7 11 | 26 2 | 4 51 | 14 31 | 2 49 | 1 24 | 4 29 | 9 47 | 1 20 | 23 35 | 0 13 | 18 6 | 0 36 | 23 29 | 0 11 | 21 45 | 1 18 | 13 0 | 9 35 | 0 38 | 0 17 | 2 28 | 6 56 | 1 24 |
| S 12 | 7 34 | 22 16 | 4 14 | 14 1 | 2 37 | 1 32 | 4 16 | 9 34 | 1 21 | 23 35 | 0 13 | 18 5 | 0 36 | 23 30 | 0 11 | 21 45 | 1 18 | 13 0 | 9 35 | 0 38 | 0 15 | 2 24 | 6 59 | 1 24 |
| S 13 | 7 56 | 17 7 | 3 19 | 13 28 | 2 23 | 1 40 | 4 3 | 9 20 | 1 21 | 23 34 | 0 13 | 18 4 | 0 37 | 23 30 | 0 11 | 21 45 | 1 18 | 12 59 | 9 36 | 0 39 | 0 14 | 2 21 | 7 2 | 1 23 |
| M14 | 8 19 | 10 53 | 2 11 | 12 50 | 2 8 | 1 46 | 3 50 | 9 6 | 1 21 | 23 34 | 0 13 | 18 3 | 0 37 | 23 30 | 0 11 | 21 46 | 1 18 | 12 59 | 9 36 | 0 39 | 0 13 | 2 17 | 7 5 | 1 23 |
| T 15 | 8 41 | 3 55 | 0 52 | 12 8 | 1 50 | 1 52 | 3 37 | 8 53 | 1 21 | 23 34 | 0 13 | 18 2 | 0 37 | 23 30 | 0 11 | 21 46 | 1 18 | 12 59 | 9 36 | 0 40 | 0 11 | 2 14 | 7 8 | 1 23 |
| W16 | 9 3 | 3n19 | 0n30 | 11 24 | 1 32 | 1 57 | 3 25 | 8 39 | 1 22 | 23 33 | 0 13 | 18 1 | 0 37 | 23 30 | 0 11 | 21 46 | 1 18 | 12 59 | 9 36 | 0 40 | 0 10 | 2 10 | 7 12 | 1 23 |
| T 17 | 9 25 | 10 24 | 1 51 | 10 38 | 1 12 | 2 0 | 3 13 | 8 25 | 1 22 | 23 33 | 0 14 | 18 0 | 0 37 | 23 30 | 0 11 | 21 46 | 1 18 | 12 59 | 9 36 | 0 39 | 0 9 | 2 7 | 7 15 | 1 22 |
| F 18 | 9 47 | 16 50 | 3 3 | 9 51 | 0 52 | 2 3 | 3 1 | 8 11 | 1 22 | 23 33 | 0 14 | 17 59 | 0 37 | 23 30 | 0 11 | 21 46 | 1 18 | 12 58 | 9 36 | 0 39 | 0 8 | 2 3 | 7 18 | 1 22 |
| S 19 | 10 9 | 22 10 | 4 2 | 9 5 | 0 31 | 2 5 | 2 49 | 7 57 | 1 22 | 23 32 | 0 14 | 17 58 | 0 37 | 23 30 | 0 11 | 21 46 | 1 18 | 12 58 | 9 36 | 0 37 | 0 6 | 2 0 | 7 21 | 1 22 |
| S 20 | 10 31 | 26 3 | 4 44 | 8 21 | 0 10 | 2 6 | 2 37 | 7 43 | 1 23 | 23 32 | 0 14 | 17 57 | 0 38 | 23 30 | 0 11 | 21 47 | 1 18 | 12 58 | 9 36 | 0 36 | 0 5 | 1 57 | 7 24 | 1 22 |
| M21 | 10 52 | 28 14 | 5 8 | 7 40 | 0n10 | 2 6 | 2 25 | 7 29 | 1 23 | 23 32 | 0 14 | 17 57 | 0 38 | 23 31 | 0 11 | 21 47 | 1 18 | 12 58 | 9 36 | 0 34 | 0 4 | 1 53 | 7 27 | 1 21 |
| T 22 | 11 13 | 28 40 | 5 14 | 7 3 | 0 29 | 2 5 | 2 14 | 7 15 | 1 23 | 23 31 | 0 14 | 17 56 | 0 38 | 23 31 | 0 11 | 21 47 | 1 18 | 12 58 | 9 37 | 0 33 | 0 3 | 1 50 | 7 30 | 1 21 |
| W23 | 11 35 | 27 28 | 5 3 | 6 32 | 0 47 | 2 3 | 2 3 | 7 1 | 1 23 | 23 31 | 0 14 | 17 55 | 0 38 | 23 31 | 0 11 | 21 47 | 1 17 | 12 57 | 9 37 | 0 32 | 0 1 | 1 46 | 7 33 | 1 21 |
| T 24 | 11 56 | 24 54 | 4 38 | 6 5 | 1 3 | 2 1 | 1 52 | 6 47 | 1 24 | 23 30 | 0 14 | 17 54 | 0 38 | 23 31 | 0 11 | 21 47 | 1 17 | 12 57 | 9 37 | 0 32 | 0 0 | 1 43 | 7 36 | 1 20 |
| F 25 | 12 16 | 21 15 | 4 1 | 5 45 | 1 18 | 1 58 | 1 42 | 6 33 | 1 24 | 23 30 | 0 14 | 17 54 | 0 38 | 23 31 | 0 11 | 21 47 | 1 17 | 12 57 | 9 37 | 0 32 | 0s 1 | 1 39 | 7 40 | 1 20 |
| S 26 | 12 37 | 16 46 | 3 13 | 5 30 | 1 30 | 1 53 | 1 31 | 6 19 | 1 24 | 23 29 | 0 14 | 17 53 | 0 39 | 23 31 | 0 11 | 21 48 | 1 17 | 12 57 | 9 37 | 0 33 | 0 2 | 1 36 | 7 43 | 1 20 |
| S 27 | 12 57 | 11 44 | 2 18 | 5 22 | 1 42 | 1 49 | 1 21 | 6 5 | 1 24 | 23 29 | 0 14 | 17 52 | 0 39 | 23 31 | 0 11 | 21 48 | 1 17 | 12 57 | 9 37 | 0 33 | 0 4 | 1 32 | 7 46 | 1 20 |
| M28 | 13 18 | 6 18 | 1 18 | 5 19 | 1 51 | 1 43 | 1 11 | 5 51 | 1 24 | 23 28 | 0 14 | 17 51 | 0 39 | 23 31 | 0 11 | 21 48 | 1 17 | 12 56 | 9 37 | 0 34 | 0 5 | 1 29 | 7 49 | 1 19 |
| T 29 | 13 38 | 0 40 | 0 14 | 5 22 | 1 59 | 1 37 | 1 1 | 5 37 | 1 25 | 23 28 | 0 14 | 17 51 | 0 39 | 23 32 | 0 11 | 21 48 | 1 17 | 12 56 | 9 37 | 0 34 | 0 6 | 1 25 | 7 52 | 1 19 |
| W30 | 13 57 | 5s 1 | 0s50 | 5 29 | 2 5 | 1 29 | 0 52 | 5 23 | 1 25 | 23 27 | 0 14 | 17 50 | 0 39 | 23 32 | 0 11 | 21 48 | 1 17 | 12 56 | 9 37 | 0 34 | 0 8 | 1 22 | 7 55 | 1 19 |
| T 31 | 14s17 | 10s34 | 1s53 | 5s41 | 2n 9 | 1n22 | 0s43 | 5n 9 | 1n25 | 23s27 | 0s15 | 17n50 | 0n39 | 23s32 | 0s11 | 21s48 | 1n17 | 12n56 | 9s37 | 0n33 | 0s 9 | 1n19 | 7s58 | 1s19 |

Julian Day Number = 2324714.5, Delta T = 41.40 sec
Ecliptic obliquity = 23°29'14, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'36, Lahiri = 19°00'37Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## NOVEMBER 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 43 29 | 9♏14'52 | 4♏43 | 20♎27 | 25♍39 | 20♍55 | 8♑50 | 12♌ 9 | 24♐ 4 | 19♐46 | 13°R41 | 1°R19 | 29♓35 | 27♍20 | 17♎18 | F 1 |
| S 2 | 2 47 26 | 10°15'08 | 16°59 | 21°25 | 26°22 | 21°32 | 9° 0 | 12°11 | 24° 7 | 19°48 | 13♊40 | 1♈14 | 29°32 | 27°26 | 17°26 | S 2 |
| S 3 | 2 51 22 | 11°15'26 | 29°26 | 22°28 | 27° 6 | 22° 8 | 9°10 | 12°13 | 24° 9 | 19°50 | 13°39 | 1° 6 | 29°28 | 27°33 | 17°35 | S 3 |
| M 4 | 2 55 19 | 12°15'46 | 12♐ 4 | 23°37 | 27°52 | 22°44 | 9°20 | 12°16 | 24°12 | 19°52 | 13°38 | 0°59 | 29°25 | 27°40 | 17°43 | M 4 |
| T 5 | 2 59 15 | 13°16'08 | 24°56 | 24°49 | 28°38 | 23°20 | 9°31 | 12°18 | 24°15 | 19°53 | 13°37 | 0°51 | 29°22 | 27°46 | 17°51 | T 5 |
| W 6 | 3 3 12 | 14°16'30 | 8♑ 0 | 26° 6 | 29°25 | 23°56 | 9°42 | 12°20 | 24°18 | 19°55 | 13°36 | 0°45 | 29°19 | 27°53 | 18° 0 | W 6 |
| T 7 | 3 7 9 | 15°16'55 | 21°17 | 27°26 | 0♎13 | 24°32 | 9°52 | 12°21 | 24°21 | 19°57 | 13°35 | 0°40 | 29°16 | 28° 0 | 18° 8 | T 7 |
| F 8 | 3 11 5 | 16°17'21 | 4♒48 | 28°48 | 1° 2 | 25° 8 | 10° 3 | 12°23 | 24°24 | 19°59 | 13°34 | 0°38 | 29°13 | 28° 6 | 18°16 | F 8 |
| S 9 | 3 15 2 | 17°17'48 | 18°34 | 0♏13 | 1°52 | 25°44 | 10°14 | 12°25 | 24°27 | 20° 1 | 13°33 | 0°D37 | 29° 9 | 28°13 | 18°24 | S 9 |
| S 10 | 3 18 58 | 18°18'16 | 2♓34 | 1°40 | 2°43 | 26°20 | 10°25 | 12°26 | 24°30 | 20° 3 | 13°32 | 0°38 | 29° 6 | 28°19 | 18°32 | S 10 |
| M11 | 3 22 55 | 19°18'45 | 16°50 | 3° 8 | 3°34 | 26°56 | 10°36 | 12°28 | 24°33 | 20° 5 | 13°31 | 0°39 | 29° 3 | 28°26 | 18°40 | M11 |
| T 12 | 3 26 51 | 20°19'16 | 1♈18 | 4°37 | 4°26 | 27°32 | 10°47 | 12°29 | 24°37 | 20° 7 | 13°30 | 0°R40 | 29° 0 | 28°33 | 18°48 | T 12 |
| W13 | 3 30 48 | 21°19'48 | 15°56 | 6° 8 | 5°19 | 28° 8 | 10°59 | 12°30 | 24°40 | 20° 9 | 13°29 | 0°39 | 28°57 | 28°39 | 18°56 | W13 |
| T 14 | 3 34 45 | 22°20'22 | 0♉39 | 7°39 | 6°13 | 28°44 | 11°10 | 12°31 | 24°43 | 20°11 | 13°28 | 0°35 | 28°54 | 28°46 | 19° 4 | T 14 |
| F 15 | 3 38 41 | 23°20'57 | 15°20 | 9°11 | 7° 7 | 29°20 | 11°22 | 12°32 | 24°46 | 20°13 | 13°27 | 0°30 | 28°50 | 28°53 | 19°12 | F 15 |
| S 16 | 3 42 38 | 24°21'33 | 29°52 | 10°44 | 8° 2 | 29°55 | 11°33 | 12°33 | 24°49 | 20°15 | 13°25 | 0°22 | 28°47 | 28°59 | 19°20 | S 16 |
| S 17 | 3 46 34 | 25°22'11 | 14♊ 8 | 12°17 | 8°58 | 0♎31 | 11°45 | 12°34 | 24°53 | 20°17 | 13°24 | 0°13 | 28°44 | 29° 6 | 19°28 | S 17 |
| M18 | 3 50 31 | 26°22'51 | 28° 1 | 13°50 | 9°54 | 1° 7 | 11°57 | 12°34 | 24°56 | 20°20 | 13°23 | 0° 3 | 28°41 | 29°13 | 19°35 | M18 |
| T 19 | 3 54 27 | 27°23'32 | 11♋30 | 15°24 | 10°51 | 1°42 | 12° 9 | 12°35 | 24°59 | 20°22 | 13°22 | 29♓54 | 28°38 | 29°19 | 19°43 | T 19 |
| W20 | 3 58 24 | 28°24'14 | 24°34 | 16°57 | 11°48 | 2°18 | 12°20 | 12°35 | 25° 2 | 20°24 | 13°21 | 29°47 | 28°34 | 29°26 | 19°51 | W20 |
| T 21 | 4 2 20 | 29°24'58 | 7♌13 | 18°31 | 12°46 | 2°53 | 12°32 | 12°36 | 25° 6 | 20°26 | 13°20 | 29°42 | 28°31 | 29°33 | 19°58 | T 21 |
| F 22 | 4 6 17 | 0♐25'44 | 19°32 | 20° 5 | 13°44 | 3°29 | 12°45 | 12°36 | 25° 9 | 20°28 | 13°19 | 29°39 | 28°28 | 29°39 | 20° 6 | F 22 |
| S 23 | 4 10 14 | 1°26'31 | 1♍35 | 21°39 | 14°43 | 4° 4 | 12°57 | 12°R36 | 25°13 | 20°30 | 13°18 | 29°D39 | 28°25 | 29°46 | 20°13 | S 23 |
| S 24 | 4 14 10 | 2°27'20 | 13°27 | 23°14 | 15°43 | 4°39 | 13° 9 | 12°36 | 25°16 | 20°32 | 13°17 | 29°39 | 28°22 | 29°52 | 20°21 | S 24 |
| M25 | 4 18 7 | 3°28'10 | 25°14 | 24°48 | 16°43 | 5°15 | 13°21 | 12°36 | 25°19 | 20°35 | 13°15 | 29°R40 | 28°19 | 29°59 | 20°28 | M25 |
| T 26 | 4 22 3 | 4°29'02 | 7♎ 2 | 26°22 | 17°43 | 5°50 | 13°34 | 12°35 | 25°23 | 20°37 | 13°14 | 29°40 | 28°15 | 0♎ 6 | 20°35 | T 26 |
| W27 | 4 26 0 | 5°29'55 | 18°54 | 27°56 | 18°44 | 6°25 | 13°46 | 12°35 | 25°26 | 20°39 | 13°13 | 29°38 | 28°12 | 0°12 | 20°43 | W27 |
| T 28 | 4 29 56 | 6°30'49 | 0♏57 | 29°30 | 19°45 | 7° 0 | 13°59 | 12°34 | 25°30 | 20°41 | 13°12 | 29°33 | 28° 9 | 0°19 | 20°50 | T 28 |
| F 29 | 4 33 53 | 7°31'45 | 13°12 | 1♐ 4 | 20°47 | 7°36 | 14°11 | 12°34 | 25°33 | 20°43 | 13°11 | 29°26 | 28° 6 | 0°26 | 20°57 | F 29 |
| S 30 | 4 37 49 | 8♐32'42 | 25♏41 | 2♐38 | 21♎49 | 8♎11 | 14♑24 | 12♌33 | 25♐37 | 20♐46 | 13♊10 | 29♓16 | 28♓ 3 | 0♎32 | 21♎ 4 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14s36 | 15s48 | 2s51 | 5s58 | 2n12 | 1n13 | 0s34 | 4n55 | 1n25 | 23s26 | 0s15 | 17n49 | 0n40 | 23s32 | 0s11 | 21s49 | 1n17 | 12n56 | 9s38 | 0n32 | 0s10 | 1n15 | 8s 1 | 1s18 |
| S 2 | 14 55 | 20 29 | 3 42 | 6 17 | 2 14 | 1 4 | 0 25 | 4 41 | 1 25 | 23 25 | 0 15 | 17 49 | 0 40 | 23 32 | 0 11 | 21 49 | 1 17 | 12 56 | 9 38 | 0 29 | 0 11 | 1 12 | 8 4 | 1 18 |
| S 3 | 15 14 | 24 21 | 4 24 | 6 40 | 2 15 | 0 54 | 0 16 | 4 26 | 1 26 | 23 25 | 0 15 | 17 48 | 0 40 | 23 32 | 0 11 | 21 49 | 1 17 | 12 55 | 9 38 | 0 26 | 0 13 | 1 8 | 8 7 | 1 18 |
| M 4 | 15 33 | 27 7 | 4 53 | 7 6 | 2 15 | 0 44 | 0 8 | 4 12 | 1 26 | 23 24 | 0 15 | 17 48 | 0 40 | 23 32 | 0 11 | 21 49 | 1 17 | 12 55 | 9 38 | 0 23 | 0 14 | 1 5 | 8 10 | 1 18 |
| T 5 | 15 51 | 28 30 | 5 7 | 7 34 | 2 14 | 0 33 | 0 0 | 3 58 | 1 26 | 23 24 | 0 15 | 17 47 | 0 40 | 23 32 | 0 11 | 21 49 | 1 17 | 12 55 | 9 38 | 0 20 | 0 15 | 1 1 | 8 13 | 1 17 |
| W 6 | 16 9 | 28 21 | 5 7 | 8 3 | 2 12 | 0 21 | 0n 8 | 3 44 | 1 26 | 23 23 | 0 15 | 17 47 | 0 40 | 23 33 | 0 11 | 21 49 | 1 17 | 12 55 | 9 38 | 0 18 | 0 16 | 0 58 | 8 16 | 1 17 |
| T 7 | 16 27 | 26 34 | 4 49 | 8 35 | 2 9 | 0 9 | 0 16 | 3 30 | 1 27 | 23 22 | 0 15 | 17 47 | 0 41 | 23 33 | 0 11 | 21 50 | 1 17 | 12 55 | 9 38 | 0 16 | 0 18 | 0 54 | 8 19 | 1 17 |
| F 8 | 16 45 | 23 14 | 4 16 | 9 7 | 2 5 | 0s 4 | 0 23 | 3 16 | 1 27 | 23 21 | 0 15 | 17 46 | 0 41 | 23 33 | 0 11 | 21 50 | 1 17 | 12 54 | 9 38 | 0 15 | 0 19 | 0 51 | 8 22 | 1 17 |
| S 9 | 17 2 | 18 35 | 3 27 | 9 41 | 2 1 | 0 17 | 0 30 | 3 2 | 1 27 | 23 21 | 0 15 | 17 46 | 0 41 | 23 33 | 0 11 | 21 50 | 1 17 | 12 54 | 9 38 | 0 15 | 0 20 | 0 47 | 8 24 | 1 17 |
| S 10 | 17 19 | 12 51 | 2 26 | 10 15 | 1 57 | 0 31 | 0 37 | 2 47 | 1 27 | 23 20 | 0 15 | 17 46 | 0 41 | 23 33 | 0 11 | 21 50 | 1 17 | 12 54 | 9 38 | 0 15 | 0 21 | 0 44 | 8 27 | 1 16 |
| M11 | 17 35 | 6 21 | 1 14 | 10 50 | 1 52 | 0 45 | 0 44 | 2 33 | 1 27 | 23 19 | 0 15 | 17 45 | 0 41 | 23 33 | 0 11 | 21 50 | 1 17 | 12 54 | 9 38 | 0 16 | 0 23 | 0 40 | 8 30 | 1 16 |
| T 12 | 17 52 | 0n34 | 0n 3 | 11 25 | 1 47 | 1 0 | 0 51 | 2 19 | 1 27 | 23 18 | 0 15 | 17 45 | 0 41 | 23 33 | 0 11 | 21 51 | 1 17 | 12 54 | 9 38 | 0 16 | 0 24 | 0 37 | 8 33 | 1 16 |
| W13 | 18 8 | 7 32 | 1 21 | 12 0 | 1 41 | 1 15 | 0 57 | 2 5 | 1 28 | 23 17 | 0 15 | 17 45 | 0 42 | 23 34 | 0 11 | 21 51 | 1 17 | 12 54 | 9 38 | 0 15 | 0 25 | 0 34 | 8 36 | 1 16 |
| T 14 | 18 23 | 14 8 | 2 34 | 12 35 | 1 35 | 1 30 | 1 3 | 1 51 | 1 28 | 23 16 | 0 16 | 17 45 | 0 42 | 23 34 | 0 11 | 21 51 | 1 17 | 12 54 | 9 38 | 0 14 | 0 26 | 0 30 | 8 39 | 1 15 |
| F 15 | 18 39 | 19 55 | 3 36 | 13 11 | 1 29 | 1 46 | 1 9 | 1 37 | 1 28 | 23 16 | 0 16 | 17 45 | 0 42 | 23 34 | 0 11 | 21 51 | 1 17 | 12 53 | 9 38 | 0 12 | 0 28 | 0 27 | 8 41 | 1 15 |
| S 16 | 18 54 | 24 27 | 4 24 | 13 46 | 1 23 | 2 3 | 1 15 | 1 23 | 1 28 | 23 15 | 0 16 | 17 45 | 0 42 | 23 34 | 0 11 | 21 51 | 1 17 | 12 53 | 9 38 | 0 9 | 0 29 | 0 23 | 8 44 | 1 15 |
| S 17 | 19 9 | 27 24 | 4 54 | 14 21 | 1 16 | 2 20 | 1 20 | 1 9 | 1 28 | 23 14 | 0 16 | 17 45 | 0 42 | 23 34 | 0 11 | 21 51 | 1 17 | 12 53 | 9 38 | 0 5 | 0 30 | 0 20 | 8 47 | 1 15 |
| M18 | 19 23 | 28 34 | 5 5 | 14 55 | 1 9 | 2 37 | 1 26 | 0 55 | 1 29 | 23 13 | 0 16 | 17 45 | 0 42 | 23 34 | 0 11 | 21 52 | 1 17 | 12 53 | 9 38 | 0 1 | 0 32 | 0 16 | 8 50 | 1 14 |
| T 19 | 19 37 | 27 57 | 4 59 | 15 29 | 1 3 | 2 54 | 1 31 | 0 41 | 1 29 | 23 12 | 0 16 | 17 45 | 0 43 | 23 34 | 0 11 | 21 52 | 1 17 | 12 53 | 9 38 | 0s 2 | 0 33 | 0 13 | 8 52 | 1 14 |
| W20 | 19 51 | 25 48 | 4 38 | 16 2 | 0 56 | 3 12 | 1 36 | 0 27 | 1 29 | 23 11 | 0 16 | 17 45 | 0 43 | 23 34 | 0 11 | 21 52 | 1 17 | 12 53 | 9 38 | 0 5 | 0 34 | 0 9 | 8 55 | 1 14 |
| T 21 | 20 4 | 22 25 | 4 3 | 16 35 | 0 49 | 3 31 | 1 41 | 0 13 | 1 29 | 23 10 | 0 16 | 17 45 | 0 43 | 23 35 | 0 11 | 21 52 | 1 17 | 12 52 | 9 38 | 0 7 | 0 35 | 0 6 | 8 58 | 1 14 |
| F 22 | 20 17 | 18 7 | 3 18 | 17 8 | 0 42 | 3 49 | 1 45 | 0s 1 | 1 29 | 23 9 | 0 16 | 17 45 | 0 43 | 23 35 | 0 11 | 21 52 | 1 17 | 12 52 | 9 38 | 0 8 | 0 37 | 0 2 | 9 0 | 1 14 |
| S 23 | 20 29 | 13 11 | 2 24 | 17 39 | 0 35 | 4 8 | 1 49 | 0 15 | 1 29 | 23 7 | 0 16 | 17 45 | 0 43 | 23 35 | 0 11 | 21 52 | 1 17 | 12 52 | 9 38 | 0 8 | 0 38 | 0s 1 | 9 3 | 1 13 |
| S 24 | 20 42 | 7 50 | 1 26 | 18 10 | 0 28 | 4 27 | 1 54 | 0 29 | 1 30 | 23 6 | 0 16 | 17 45 | 0 43 | 23 35 | 0 11 | 21 53 | 1 17 | 12 52 | 9 38 | 0 8 | 0 39 | 0 5 | 9 6 | 1 13 |
| M25 | 20 53 | 2 16 | 0 24 | 18 40 | 0 21 | 4 46 | 1 58 | 0 43 | 1 30 | 23 5 | 0 16 | 17 46 | 0 44 | 23 35 | 0 11 | 21 53 | 1 16 | 12 52 | 9 38 | 0 8 | 0 40 | 0 8 | 9 8 | 1 13 |
| T 26 | 21 5 | 3s24 | 0s39 | 19 9 | 0 14 | 5 6 | 2 1 | 0 57 | 1 30 | 23 4 | 0 16 | 17 46 | 0 44 | 23 35 | 0 11 | 21 53 | 1 16 | 12 52 | 9 38 | 0 8 | 0 42 | 0 11 | 9 11 | 1 13 |
| W27 | 21 16 | 8 58 | 1 41 | 19 37 | 0 7 | 5 25 | 2 5 | 1 11 | 1 30 | 23 3 | 0 16 | 17 46 | 0 44 | 23 35 | 0 11 | 21 53 | 1 16 | 12 52 | 9 38 | 0 9 | 0 43 | 0 15 | 9 13 | 1 12 |
| T 28 | 21 26 | 14 18 | 2 38 | 20 5 | 0 0 | 5 45 | 2 9 | 1 24 | 1 30 | 23 2 | 0 17 | 17 46 | 0 44 | 23 35 | 0 11 | 21 53 | 1 16 | 12 52 | 9 38 | 0 11 | 0 44 | 0 18 | 9 16 | 1 12 |
| F 29 | 21 37 | 19 10 | 3 30 | 20 31 | 0s 7 | 6 5 | 2 12 | 1 38 | 1 30 | 23 0 | 0 17 | 17 47 | 0 44 | 23 36 | 0 11 | 21 53 | 1 16 | 12 51 | 9 38 | 0 14 | 0 45 | 0 22 | 9 18 | 1 12 |
| S 30 | 21s46 | 23s18 | 4s12 | 20s57 | 0s13 | 6s26 | 2n15 | 1s52 | 1n31 | 22s59 | 0s17 | 17n47 | 0n45 | 23s36 | 0s11 | 21s54 | 1n16 | 12n51 | 9s38 | 0s18 | 0s47 | 0s25 | 9s21 | 1s12 |

Julian Day Number = 2324745.5, Delta T = 41.34 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'41, Lahiri = 19°00'41Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1652
# geocentric

## DECEMBER 1652 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 41 46 | 9♐33'40 | 8♐26 | 4♐12 | 22♎51 | 8♎46 | 14♑37 | 12°R32 | 25♐40 | 20♐48 | 13°R 9 | 29°R 4 | 28♓ 0 | 0♎39 | 21♎11 | S 1 |
| M 2 | 4 45 43 | 10°34'39 | 21°27 | 5°46 | 23°54 | 9°21 | 14°49 | 12♌31 | 25°44 | 20°50 | 13♊ 7 | 28♓51 | 27°56 | 0°46 | 21°18 | M 2 |
| T 3 | 4 49 39 | 11°35'39 | 4♑41 | 7°20 | 24°57 | 9°55 | 15° 2 | 12°30 | 25°47 | 20°52 | 13° 6 | 28°38 | 27°53 | 0°52 | 21°25 | T 3 |
| W 4 | 4 53 36 | 12°36'39 | 18° 8 | 8°54 | 26° 0 | 10°30 | 15°15 | 12°29 | 25°51 | 20°55 | 13° 5 | 28°27 | 27°50 | 0°59 | 21°31 | W 4 |
| T 5 | 4 57 32 | 13°37'41 | 1♒44 | 10°28 | 27° 4 | 11° 5 | 15°28 | 12°28 | 25°54 | 20°57 | 13° 4 | 28°19 | 27°47 | 1° 6 | 21°38 | T 5 |
| F 6 | 5 1 29 | 14°38'43 | 15°29 | 12° 3 | 28° 8 | 11°40 | 15°41 | 12°26 | 25°58 | 20°59 | 13° 3 | 28°13 | 27°44 | 1°12 | 21°45 | F 6 |
| S 7 | 5 5 25 | 15°39'45 | 29°20 | 13°37 | 29°13 | 12°14 | 15°54 | 12°25 | 26° 1 | 21° 1 | 13° 2 | 28°10 | 27°40 | 1°19 | 21°51 | S 7 |
| S 8 | 5 9 22 | 16°40'48 | 13♓18 | 15°11 | 0♏17 | 12°49 | 16° 7 | 12°23 | 26° 5 | 21° 4 | 13° 0 | 28°D 9 | 27°37 | 1°26 | 21°58 | S 8 |
| M 9 | 5 13 18 | 17°41'52 | 27°22 | 16°45 | 1°22 | 13°24 | 16°20 | 12°21 | 26° 9 | 21° 6 | 12°59 | 28°R 9 | 27°34 | 1°32 | 22° 4 | M 9 |
| T 10 | 5 17 15 | 18°42'56 | 11♈32 | 18°20 | 2°28 | 13°58 | 16°34 | 12°20 | 26°12 | 21° 8 | 12°58 | 28° 9 | 27°31 | 1°39 | 22°10 | T 10 |
| W11 | 5 21 12 | 19°44'00 | 25°46 | 19°54 | 3°33 | 14°32 | 16°47 | 12°18 | 26°16 | 21°10 | 12°57 | 28° 7 | 27°28 | 1°45 | 22°17 | W11 |
| T 12 | 5 25 8 | 20°45'05 | 10♉ 1 | 21°29 | 4°39 | 15° 7 | 17° 0 | 12°16 | 26°19 | 21°13 | 12°56 | 28° 2 | 27°25 | 1°52 | 22°23 | T 12 |
| F 13 | 5 29 5 | 21°46'10 | 24°15 | 23° 4 | 5°45 | 15°41 | 17°14 | 12°13 | 26°23 | 21°15 | 12°55 | 27°54 | 27°21 | 1°59 | 22°29 | F 13 |
| S 14 | 5 33 1 | 22°47'15 | 8♊23 | 24°39 | 6°52 | 16°15 | 17°27 | 12°11 | 26°27 | 21°17 | 12°54 | 27°43 | 27°18 | 2° 5 | 22°35 | S 14 |
| S 15 | 5 36 58 | 23°48'21 | 22°20 | 26°14 | 7°58 | 16°49 | 17°41 | 12° 9 | 26°30 | 21°20 | 12°52 | 27°30 | 27°15 | 2°12 | 22°41 | S 15 |
| M16 | 5 40 54 | 24°49'28 | 6♋ 0 | 27°50 | 9° 5 | 17°23 | 17°54 | 12° 6 | 26°34 | 21°22 | 12°51 | 27°17 | 27°12 | 2°19 | 22°47 | M16 |
| T 17 | 5 44 51 | 25°50'35 | 19°21 | 29°25 | 10°12 | 17°58 | 18° 8 | 12° 4 | 26°38 | 21°24 | 12°50 | 27° 4 | 27° 9 | 2°25 | 22°52 | T 17 |
| W18 | 5 48 48 | 26°51'43 | 2♌20 | 1♑ 1 | 11°19 | 18°31 | 18°21 | 12° 1 | 26°41 | 21°26 | 12°49 | 26°54 | 27° 6 | 2°32 | 22°58 | W18 |
| T 19 | 5 52 44 | 27°52'51 | 14°58 | 2°37 | 12°27 | 19° 5 | 18°35 | 11°58 | 26°45 | 21°29 | 12°48 | 26°46 | 27° 2 | 2°39 | 23° 4 | T 19 |
| F 20 | 5 56 41 | 28°53'59 | 27°18 | 4°14 | 13°34 | 19°39 | 18°49 | 11°56 | 26°48 | 21°31 | 12°47 | 26°40 | 26°59 | 2°45 | 23° 9 | F 20 |
| S 21 | 6 0 37 | 29°55'08 | 9♍22 | 5°50 | 14°42 | 20°13 | 19° 2 | 11°53 | 26°52 | 21°33 | 12°46 | 26°38 | 26°56 | 2°52 | 23°14 | S 21 |
| S 22 | 6 4 34 | 0♑56'18 | 21°15 | 7°27 | 15°50 | 20°46 | 19°16 | 11°50 | 26°56 | 21°35 | 12°45 | 26°37 | 26°53 | 2°59 | 23°20 | S 22 |
| M23 | 6 8 30 | 1°57'28 | 3♎ 3 | 9° 4 | 16°59 | 21°20 | 19°30 | 11°47 | 26°59 | 21°38 | 12°43 | 26°37 | 26°50 | 3° 5 | 23°25 | M23 |
| T 24 | 6 12 27 | 2°58'39 | 14°51 | 10°41 | 18° 7 | 21°54 | 19°44 | 11°43 | 27° 3 | 21°40 | 12°42 | 26°36 | 26°46 | 3°12 | 23°30 | T 24 |
| W25 | 6 16 23 | 3°59'49 | 26°45 | 12°18 | 19°16 | 22°27 | 19°57 | 11°40 | 27° 6 | 21°42 | 12°41 | 26°35 | 26°43 | 3°19 | 23°35 | W25 |
| T 26 | 6 20 20 | 5° 1'01 | 8♏50 | 13°56 | 20°25 | 23° 0 | 20°11 | 11°37 | 27°10 | 21°44 | 12°40 | 26°30 | 26°40 | 3°25 | 23°40 | T 26 |
| F 27 | 6 24 17 | 6° 2'13 | 21°10 | 15°33 | 21°34 | 23°34 | 20°25 | 11°33 | 27°14 | 21°47 | 12°39 | 26°23 | 26°37 | 3°32 | 23°45 | F 27 |
| S 28 | 6 28 13 | 7° 3'25 | 3♐49 | 17°11 | 22°43 | 24° 7 | 20°39 | 11°30 | 27°17 | 21°49 | 12°38 | 26°14 | 26°34 | 3°38 | 23°49 | S 28 |
| S 29 | 6 32 10 | 8° 4'37 | 16°49 | 18°49 | 23°52 | 24°40 | 20°53 | 11°26 | 27°21 | 21°51 | 12°37 | 26° 2 | 26°31 | 3°45 | 23°54 | S 29 |
| M30 | 6 36 6 | 9° 5'49 | 0♑ 8 | 20°27 | 25° 2 | 25°13 | 21° 7 | 11°22 | 27°24 | 21°53 | 12°36 | 25°49 | 26°27 | 3°52 | 23°59 | M30 |
| T 31 | 6 40 3 | 10♑ 7'01 | 13♑46 | 22♑ 4 | 26♏11 | 25♎46 | 21♑21 | 11♌19 | 27♐28 | 21♐55 | 12♊35 | 25♓36 | 26♓24 | 3♎58 | 24♎ 3 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s56 | 26s24 | 4s42 | 21s21 | 0s20 | 6s46 | 2n18 | 2s 5 | 1n31 | 22s58 | 0s17 | 17n48 | 0n45 | 23s36 | 0s11 | 21s54 | 1n16 | 12n51 | 9s38 | 0s22 | 0s48 | 0s29 | 9s23 | 1s12 |
| M 2 | 22 5 | 28 11 | 4 59 | 21 45 | 0 26 | 7 7 | 2 21 | 2 19 | 1 31 | 22 56 | 0 17 | 17 48 | 0 45 | 23 36 | 0 11 | 21 54 | 1 16 | 12 51 | 9 38 | 0 27 | 0 49 | 0 32 | 9 26 | 1 11 |
| T 3 | 22 13 | 28 24 | 5 0 | 22 7 | 0 33 | 7 27 | 2 23 | 2 33 | 1 31 | 22 55 | 0 17 | 17 48 | 0 45 | 23 36 | 0 11 | 21 54 | 1 16 | 12 51 | 9 38 | 0 32 | 0 51 | 0 36 | 9 28 | 1 11 |
| W 4 | 22 21 | 26 57 | 4 44 | 22 29 | 0 39 | 7 48 | 2 26 | 2 46 | 1 31 | 22 54 | 0 17 | 17 49 | 0 45 | 23 36 | 0 11 | 21 54 | 1 16 | 12 51 | 9 38 | 0 37 | 0 52 | 0 39 | 9 30 | 1 11 |
| T 5 | 22 29 | 23 54 | 4 12 | 22 49 | 0 46 | 8 9 | 2 28 | 3 0 | 1 31 | 22 52 | 0 17 | 17 49 | 0 45 | 23 36 | 0 11 | 21 54 | 1 16 | 12 51 | 9 38 | 0 40 | 0 53 | 0 43 | 9 33 | 1 11 |
| F 6 | 22 36 | 19 30 | 3 25 | 23 8 | 0 52 | 8 30 | 2 30 | 3 13 | 1 31 | 22 51 | 0 17 | 17 50 | 0 46 | 23 36 | 0 11 | 21 55 | 1 16 | 12 51 | 9 38 | 0 43 | 0 54 | 0 46 | 9 35 | 1 11 |
| S 7 | 22 43 | 14 0 | 2 26 | 23 26 | 0 58 | 8 51 | 2 32 | 3 26 | 1 32 | 22 49 | 0 17 | 17 51 | 0 46 | 23 37 | 0 11 | 21 55 | 1 16 | 12 51 | 9 38 | 0 44 | 0 56 | 0 49 | 9 37 | 1 10 |
| S 8 | 22 49 | 7 46 | 1 18 | 23 43 | 1 3 | 9 12 | 2 34 | 3 40 | 1 32 | 22 48 | 0 17 | 17 51 | 0 46 | 23 37 | 0 11 | 21 55 | 1 16 | 12 51 | 9 38 | 0 44 | 0 57 | 0 53 | 9 39 | 1 10 |
| M 9 | 22 55 | 1 7 | 0 4 | 23 58 | 1 9 | 9 33 | 2 35 | 3 53 | 1 32 | 22 46 | 0 17 | 17 52 | 0 46 | 23 37 | 0 11 | 21 55 | 1 16 | 12 50 | 9 38 | 0 44 | 0 58 | 0 56 | 9 42 | 1 10 |
| T 10 | 23 0 | 5n39 | 1n10 | 24 12 | 1 14 | 9 54 | 2 37 | 4 6 | 1 32 | 22 45 | 0 17 | 17 53 | 0 46 | 23 37 | 0 11 | 21 55 | 1 16 | 12 50 | 9 38 | 0 44 | 0 59 | 1 0 | 9 44 | 1 10 |
| W11 | 23 5 | 12 9 | 2 20 | 24 26 | 1 20 | 10 15 | 2 38 | 4 20 | 1 32 | 22 43 | 0 17 | 17 53 | 0 46 | 23 37 | 0 11 | 21 55 | 1 16 | 12 50 | 9 38 | 0 45 | 1 1 | 1 3 | 9 46 | 1 10 |
| T 12 | 23 10 | 18 2 | 3 22 | 24 37 | 1 25 | 10 36 | 2 39 | 4 33 | 1 32 | 22 42 | 0 18 | 17 54 | 0 47 | 23 37 | 0 11 | 21 56 | 1 16 | 12 50 | 9 38 | 0 47 | 1 2 | 1 7 | 9 48 | 1 9 |
| F 13 | 23 14 | 22 55 | 4 11 | 24 48 | 1 30 | 10 56 | 2 41 | 4 46 | 1 32 | 22 40 | 0 18 | 17 55 | 0 47 | 23 37 | 0 11 | 21 56 | 1 16 | 12 50 | 9 38 | 0 50 | 1 3 | 1 10 | 9 50 | 1 9 |
| S 14 | 23 17 | 26 25 | 4 43 | 24 57 | 1 34 | 11 17 | 2 41 | 4 59 | 1 33 | 22 38 | 0 18 | 17 56 | 0 47 | 23 37 | 0 11 | 21 56 | 1 16 | 12 50 | 9 38 | 0 55 | 1 4 | 1 14 | 9 52 | 1 9 |
| S 15 | 23 20 | 28 14 | 4 59 | 25 5 | 1 39 | 11 38 | 2 42 | 5 12 | 1 33 | 22 37 | 0 18 | 17 56 | 0 47 | 23 37 | 0 11 | 21 56 | 1 16 | 12 50 | 9 38 | 1 0 | 1 6 | 1 17 | 9 54 | 1 9 |
| M16 | 23 23 | 28 17 | 4 57 | 25 11 | 1 43 | 11 59 | 2 43 | 5 25 | 1 33 | 22 35 | 0 18 | 17 57 | 0 47 | 23 38 | 0 11 | 21 56 | 1 16 | 12 50 | 9 37 | 1 5 | 1 7 | 1 21 | 9 56 | 1 9 |
| T 17 | 23 25 | 26 40 | 4 38 | 25 16 | 1 47 | 12 19 | 2 43 | 5 38 | 1 33 | 22 33 | 0 18 | 17 58 | 0 47 | 23 38 | 0 11 | 21 56 | 1 16 | 12 50 | 9 37 | 1 10 | 1 8 | 1 24 | 9 58 | 1 8 |
| W18 | 23 27 | 23 40 | 4 5 | 25 19 | 1 50 | 12 40 | 2 44 | 5 50 | 1 33 | 22 31 | 0 18 | 17 59 | 0 48 | 23 38 | 0 11 | 21 57 | 1 16 | 12 50 | 9 37 | 1 14 | 1 10 | 1 27 | 10 0 | 1 8 |
| T 19 | 23 28 | 19 35 | 3 21 | 25 21 | 1 54 | 13 0 | 2 44 | 6 3 | 1 33 | 22 30 | 0 18 | 18 0 | 0 48 | 23 38 | 0 11 | 21 57 | 1 16 | 12 50 | 9 37 | 1 17 | 1 11 | 1 31 | 10 2 | 1 8 |
| F 20 | 23 29 | 14 46 | 2 29 | 25 22 | 1 57 | 13 20 | 2 44 | 6 16 | 1 33 | 22 28 | 0 18 | 18 1 | 0 48 | 23 38 | 0 11 | 21 57 | 1 16 | 12 50 | 9 37 | 1 20 | 1 12 | 1 34 | 10 4 | 1 8 |
| S 21 | 23 29 | 9 28 | 1 30 | 25 21 | 2 0 | 13 40 | 2 44 | 6 29 | 1 33 | 22 26 | 0 18 | 18 2 | 0 48 | 23 38 | 0 11 | 21 57 | 1 16 | 12 50 | 9 37 | 1 21 | 1 13 | 1 38 | 10 6 | 1 8 |
| S 22 | 23 29 | 3 55 | 0 28 | 25 19 | 2 2 | 14 0 | 2 44 | 6 41 | 1 33 | 22 24 | 0 18 | 18 3 | 0 48 | 23 38 | 0 11 | 21 57 | 1 16 | 12 50 | 9 37 | 1 21 | 1 15 | 1 41 | 10 7 | 1 7 |
| M23 | 23 28 | 1s44 | 0s34 | 25 15 | 2 4 | 14 20 | 2 43 | 6 54 | 1 33 | 22 22 | 0 18 | 18 4 | 0 48 | 23 38 | 0 11 | 21 57 | 1 16 | 12 50 | 9 37 | 1 21 | 1 16 | 1 45 | 10 9 | 1 7 |
| T 24 | 23 27 | 7 19 | 1 35 | 25 9 | 2 6 | 14 39 | 2 43 | 7 6 | 1 34 | 22 20 | 0 19 | 18 5 | 0 49 | 23 38 | 0 11 | 21 57 | 1 16 | 12 50 | 9 37 | 1 21 | 1 17 | 1 48 | 10 11 | 1 7 |
| W25 | 23 26 | 12 42 | 2 32 | 25 2 | 2 7 | 14 58 | 2 42 | 7 18 | 1 34 | 22 18 | 0 19 | 18 6 | 0 49 | 23 38 | 0 11 | 21 58 | 1 16 | 12 50 | 9 37 | 1 22 | 1 18 | 1 52 | 10 12 | 1 7 |
| T 26 | 23 23 | 17 41 | 3 24 | 24 53 | 2 8 | 15 17 | 2 42 | 7 31 | 1 34 | 22 16 | 0 19 | 18 7 | 0 49 | 23 38 | 0 11 | 21 58 | 1 16 | 12 50 | 9 36 | 1 24 | 1 20 | 1 55 | 10 14 | 1 6 |
| F 27 | 23 21 | 22 3 | 4 7 | 24 43 | 2 9 | 15 36 | 2 41 | 7 43 | 1 34 | 22 14 | 0 19 | 18 8 | 0 49 | 23 39 | 0 11 | 21 58 | 1 16 | 12 50 | 9 36 | 1 26 | 1 21 | 1 59 | 10 16 | 1 6 |
| S 28 | 23 18 | 25 31 | 4 39 | 24 31 | 2 9 | 15 54 | 2 40 | 7 55 | 1 34 | 22 12 | 0 19 | 18 9 | 0 49 | 23 39 | 0 11 | 21 58 | 1 16 | 12 50 | 9 36 | 1 30 | 1 22 | 2 2 | 10 17 | 1 6 |
| S 29 | 23 14 | 27 45 | 4 57 | 24 17 | 2 9 | 16 12 | 2 39 | 8 7 | 1 34 | 22 10 | 0 19 | 18 11 | 0 49 | 23 39 | 0 11 | 21 58 | 1 16 | 12 50 | 9 36 | 1 35 | 1 23 | 2 5 | 10 19 | 1 6 |
| M30 | 23 10 | 28 29 | 5 0 | 24 2 | 2 8 | 16 30 | 2 38 | 8 19 | 1 34 | 22 8 | 0 19 | 18 12 | 0 50 | 23 39 | 0 11 | 21 58 | 1 16 | 12 50 | 9 36 | 1 40 | 1 25 | 2 9 | 10 20 | 1 6 |
| T 31 | 23s 6 | 27s31 | 4s46 | 23s45 | 2s 6 | 16s48 | 2n37 | 8s31 | 1n34 | 22s 6 | 0s19 | 18n13 | 0n50 | 23s39 | 0s11 | 21s58 | 1n16 | 12n50 | 9s36 | 1s45 | 1s26 | 2s12 | 10s22 | 1s 5 |

Julian Day Number = 2324775.5, Delta T = 41.28 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'45, Lahiri = 19°00'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## JANUARY 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 43 59 | 11♑ 8'14 | 27♑39 | 23♑42 | 27♏21 | 26♎18 | 21♑35 | 11°R15 | 27♐32 | 21♐58 | 12°R34 | 25°R24 | 26♓21 | 4♎ 5 | 24♎ 7 | W 1 |
| T 2 | 6 47 56 | 12° 9'25 | 11♒42 | 25°19 | 28°31 | 26°51 | 21°49 | 11♌11 | 27°35 | 22° 0 | 12♊33 | 25♓15 | 26°18 | 4°12 | 24°12 | T 2 |
| F 3 | 6 51 52 | 13°10'37 | 25°52 | 26°56 | 29°41 | 27°24 | 22° 3 | 11° 7 | 27°39 | 22° 2 | 12°32 | 25°10 | 26°15 | 4°18 | 24°16 | F 3 |
| S 4 | 6 55 49 | 14°11'48 | 10♓ 3 | 28°32 | 0♐51 | 27°56 | 22°17 | 11° 3 | 27°42 | 22° 4 | 12°31 | 25° 6 | 26°12 | 4°25 | 24°20 | S 4 |
| S 5 | 6 59 46 | 15°12'58 | 24°14 | 0♒ 8 | 2° 1 | 28°29 | 22°31 | 10°59 | 27°46 | 22° 6 | 12°30 | 25°D 6 | 26° 8 | 4°32 | 24°24 | S 5 |
| M 6 | 7 3 42 | 16°14'08 | 8♈22 | 1°42 | 3°11 | 29° 1 | 22°46 | 10°54 | 27°49 | 22° 8 | 12°29 | 25° 6 | 26° 5 | 4°38 | 24°27 | M 6 |
| T 7 | 7 7 39 | 17°15'17 | 22°26 | 3°15 | 4°22 | 29°33 | 23° 0 | 10°50 | 27°53 | 22°10 | 12°28 | 25°R 6 | 26° 2 | 4°45 | 24°31 | T 7 |
| W 8 | 7 11 35 | 18°16'25 | 6♉26 | 4°46 | 5°32 | 0♏ 5 | 23°14 | 10°46 | 27°56 | 22°12 | 12°27 | 25° 5 | 25°59 | 4°52 | 24°35 | W 8 |
| T 9 | 7 15 32 | 19°17'33 | 20°20 | 6°16 | 6°43 | 0°37 | 23°28 | 10°42 | 27°59 | 22°15 | 12°26 | 25° 1 | 25°56 | 4°58 | 24°38 | T 9 |
| F 10 | 7 19 28 | 20°18'40 | 4♊ 8 | 7°43 | 7°53 | 1° 9 | 23°42 | 10°37 | 28° 3 | 22°17 | 12°26 | 24°54 | 25°52 | 5° 5 | 24°41 | F 10 |
| S 11 | 7 23 25 | 21°19'47 | 17°48 | 9° 7 | 9° 4 | 1°41 | 23°56 | 10°33 | 28° 6 | 22°19 | 12°25 | 24°45 | 25°49 | 5°12 | 24°45 | S 11 |
| S 12 | 7 27 21 | 22°20'52 | 1♋18 | 10°28 | 10°15 | 2°12 | 24°10 | 10°28 | 28°10 | 22°21 | 12°24 | 24°35 | 25°46 | 5°18 | 24°48 | S 12 |
| M13 | 7 31 18 | 23°21'57 | 14°35 | 11°45 | 11°26 | 2°44 | 24°24 | 10°24 | 28°13 | 22°23 | 12°23 | 24°23 | 25°43 | 5°25 | 24°51 | M13 |
| T 14 | 7 35 15 | 24°23'02 | 27°37 | 12°57 | 12°37 | 3°15 | 24°39 | 10°19 | 28°16 | 22°25 | 12°22 | 24°12 | 25°40 | 5°31 | 24°54 | T 14 |
| W15 | 7 39 11 | 25°24'05 | 10♌23 | 14° 3 | 13°49 | 3°46 | 24°53 | 10°14 | 28°20 | 22°27 | 12°21 | 24° 3 | 25°37 | 5°38 | 24°56 | W15 |
| T 16 | 7 43 8 | 26°25'08 | 22°52 | 15° 3 | 15° 0 | 4°18 | 25° 7 | 10°10 | 28°23 | 22°29 | 12°20 | 23°56 | 25°33 | 5°45 | 24°59 | T 16 |
| F 17 | 7 47 4 | 27°26'11 | 5♍ 7 | 15°56 | 16°11 | 4°49 | 25°21 | 10° 5 | 28°26 | 22°31 | 12°20 | 23°52 | 25°30 | 5°51 | 25° 2 | F 17 |
| S 18 | 7 51 1 | 28°27'12 | 17° 9 | 16°41 | 17°23 | 5°20 | 25°35 | 10° 0 | 28°30 | 22°33 | 12°19 | 23°50 | 25°27 | 5°58 | 25° 4 | S 18 |
| S 19 | 7 54 57 | 29°28'14 | 29° 2 | 17°18 | 18°34 | 5°50 | 25°49 | 9°56 | 28°33 | 22°34 | 12°18 | 23°D50 | 25°24 | 6° 5 | 25° 7 | S 19 |
| M20 | 7 58 54 | 0♒29'14 | 10♎50 | 17°44 | 19°46 | 6°21 | 26° 4 | 9°51 | 28°36 | 22°36 | 12°17 | 23°51 | 25°21 | 6°11 | 25° 9 | M20 |
| T 21 | 8 2 50 | 1°30'14 | 22°38 | 18° 1 | 20°57 | 6°51 | 26°18 | 9°46 | 28°39 | 22°38 | 12°17 | 23°52 | 25°18 | 6°18 | 25°11 | T 21 |
| W22 | 8 6 47 | 2°31'13 | 4♏32 | 18°R 6 | 22° 9 | 7°22 | 26°32 | 9°41 | 28°42 | 22°40 | 12°16 | 23°R52 | 25°14 | 6°25 | 25°13 | W22 |
| T 23 | 8 10 44 | 3°32'12 | 16°36 | 18° 0 | 23°21 | 7°52 | 26°46 | 9°36 | 28°46 | 22°42 | 12°15 | 23°51 | 25°11 | 6°31 | 25°15 | T 23 |
| F 24 | 8 14 40 | 4°33'10 | 28°57 | 17°43 | 24°33 | 8°22 | 27° 0 | 9°31 | 28°49 | 22°44 | 12°15 | 23°48 | 25° 8 | 6°38 | 25°16 | F 24 |
| S 25 | 8 18 37 | 5°34'08 | 11♐37 | 17°15 | 25°45 | 8°52 | 27°14 | 9°26 | 28°52 | 22°46 | 12°14 | 23°43 | 25° 5 | 6°45 | 25°18 | S 25 |
| S 26 | 8 22 33 | 6°35'04 | 24°41 | 16°36 | 26°57 | 9°22 | 27°28 | 9°21 | 28°55 | 22°47 | 12°13 | 23°36 | 25° 2 | 6°51 | 25°20 | S 26 |
| M27 | 8 26 30 | 7°36'00 | 8♑10 | 15°47 | 28° 9 | 9°51 | 27°42 | 9°17 | 28°58 | 22°49 | 12°13 | 23°28 | 24°58 | 6°58 | 25°21 | M27 |
| T 28 | 8 30 26 | 8°36'55 | 22° 2 | 14°50 | 29°21 | 10°21 | 27°56 | 9°12 | 29° 1 | 22°51 | 12°12 | 23°20 | 24°55 | 7° 5 | 25°22 | T 28 |
| W29 | 8 34 23 | 9°37'48 | 6♒15 | 13°46 | 0♑33 | 10°50 | 28°11 | 9° 7 | 29° 4 | 22°53 | 12°12 | 23°13 | 24°52 | 7°11 | 25°23 | W29 |
| T 30 | 8 38 20 | 10°38'41 | 20°43 | 12°37 | 1°46 | 11°19 | 28°25 | 9° 2 | 29° 7 | 22°54 | 12°11 | 23° 7 | 24°49 | 7°18 | 25°24 | T 30 |
| F 31 | 8 42 16 | 11♒39'32 | 5♓20 | 11♒26 | 2♑58 | 11♏48 | 28♑39 | 8♌57 | 29♐10 | 22♐56 | 12♊11 | 23♓ 4 | 24♓46 | 7♎24 | 25♎25 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s 1 | 24s50 | 4s15 | 23s27 | 2s 5 | 17s 5 | 2n35 | 8s43 | 1n34 | 22s 4 | 0s19 | 18n14 | 0n50 | 23s39 | 0s11 | 21s58 | 1n16 | 12n50 | 9s36 | 1s50 | 1s27 | 2s16 | 10s23 | 1s 5 |
| T 2 | 22 56 | 20 39 | 3 28 | 23 7 | 2 2 | 17 22 | 2 34 | 8 54 | 1 34 | 22 2 | 0 19 | 18 15 | 0 50 | 23 39 | 0 11 | 21 59 | 1 16 | 12 50 | 9 35 | 1 53 | 1 28 | 2 19 | 10 24 | 1 5 |
| F 3 | 22 50 | 15 15 | 2 28 | 22 45 | 1 59 | 17 38 | 2 33 | 9 6 | 1 34 | 22 0 | 0 19 | 18 17 | 0 50 | 23 39 | 0 11 | 21 59 | 1 16 | 12 50 | 9 35 | 1 56 | 1 30 | 2 23 | 10 26 | 1 5 |
| S 4 | 22 44 | 9 2 | 1 19 | 22 22 | 1 55 | 17 54 | 2 31 | 9 18 | 1 34 | 21 58 | 0 19 | 18 18 | 0 50 | 23 39 | 0 11 | 21 59 | 1 16 | 12 50 | 9 35 | 1 57 | 1 31 | 2 26 | 10 27 | 1 5 |
| S 5 | 22 37 | 2 22 | 0 5 | 21 58 | 1 51 | 18 10 | 2 29 | 9 29 | 1 34 | 21 55 | 0 20 | 18 19 | 0 50 | 23 39 | 0 11 | 21 59 | 1 16 | 12 50 | 9 35 | 1 57 | 1 32 | 2 30 | 10 28 | 1 4 |
| M 6 | 22 30 | 4n24 | 1n10 | 21 32 | 1 46 | 18 25 | 2 27 | 9 41 | 1 34 | 21 53 | 0 20 | 18 20 | 0 51 | 23 39 | 0 11 | 21 59 | 1 16 | 12 50 | 9 35 | 1 57 | 1 34 | 2 33 | 10 30 | 1 4 |
| T 7 | 22 22 | 10 55 | 2 20 | 21 5 | 1 40 | 18 40 | 2 26 | 9 52 | 1 34 | 21 51 | 0 20 | 18 22 | 0 51 | 23 39 | 0 11 | 21 59 | 1 16 | 12 50 | 9 35 | 1 57 | 1 35 | 2 36 | 10 31 | 1 4 |
| W 8 | 22 14 | 16 51 | 3 21 | 20 37 | 1 33 | 18 55 | 2 24 | 10 3 | 1 34 | 21 49 | 0 20 | 18 23 | 0 51 | 23 39 | 0 11 | 21 59 | 1 16 | 12 50 | 9 35 | 1 58 | 1 36 | 2 40 | 10 32 | 1 4 |
| T 9 | 22 6 | 21 53 | 4 10 | 20 7 | 1 25 | 19 9 | 2 22 | 10 14 | 1 34 | 21 46 | 0 20 | 18 24 | 0 51 | 23 40 | 0 11 | 21 59 | 1 16 | 12 50 | 9 34 | 1 59 | 1 37 | 2 43 | 10 33 | 1 4 |
| F 10 | 21 57 | 25 40 | 4 44 | 19 37 | 1 17 | 19 22 | 2 19 | 10 25 | 1 34 | 21 44 | 0 20 | 18 26 | 0 51 | 23 40 | 0 11 | 21 59 | 1 16 | 12 50 | 9 34 | 2 2 | 1 39 | 2 47 | 10 34 | 1 3 |
| S 11 | 21 48 | 27 55 | 5 1 | 19 6 | 1 8 | 19 36 | 2 17 | 10 36 | 1 34 | 21 41 | 0 20 | 18 27 | 0 51 | 23 40 | 0 11 | 22 0 | 1 16 | 12 50 | 9 34 | 2 5 | 1 40 | 2 50 | 10 35 | 1 3 |
| S 12 | 21 38 | 28 30 | 5 1 | 18 34 | 0 57 | 19 48 | 2 15 | 10 47 | 1 34 | 21 39 | 0 20 | 18 28 | 0 51 | 23 40 | 0 11 | 22 0 | 1 16 | 12 50 | 9 34 | 2 10 | 1 41 | 2 54 | 10 36 | 1 3 |
| M13 | 21 28 | 27 24 | 4 45 | 18 2 | 0 46 | 20 0 | 2 13 | 10 58 | 1 34 | 21 37 | 0 20 | 18 30 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 50 | 9 34 | 2 14 | 1 42 | 2 57 | 10 37 | 1 3 |
| T 14 | 21 17 | 24 50 | 4 14 | 17 30 | 0 34 | 20 12 | 2 10 | 11 9 | 1 34 | 21 34 | 0 20 | 18 31 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 51 | 9 33 | 2 18 | 1 44 | 3 1 | 10 38 | 1 3 |
| W15 | 21 6 | 21 3 | 3 31 | 16 59 | 0 21 | 20 23 | 2 8 | 11 19 | 1 34 | 21 32 | 0 20 | 18 33 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 51 | 9 33 | 2 22 | 1 45 | 3 4 | 10 38 | 1 2 |
| T 16 | 20 55 | 16 24 | 2 38 | 16 28 | 0 7 | 20 34 | 2 5 | 11 30 | 1 34 | 21 29 | 0 21 | 18 34 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 51 | 9 33 | 2 25 | 1 46 | 3 7 | 10 39 | 1 2 |
| F 17 | 20 43 | 11 11 | 1 39 | 15 58 | 0n 8 | 20 44 | 2 3 | 11 40 | 1 34 | 21 27 | 0 21 | 18 35 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 51 | 9 33 | 2 27 | 1 47 | 3 11 | 10 40 | 1 2 |
| S 18 | 20 31 | 5 38 | 0 36 | 15 29 | 0 24 | 20 54 | 2 0 | 11 50 | 1 34 | 21 24 | 0 21 | 18 37 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 51 | 9 33 | 2 27 | 1 49 | 3 14 | 10 41 | 1 2 |
| S 19 | 20 18 | 0s 3 | 0s28 | 15 3 | 0 40 | 21 3 | 1 57 | 12 1 | 1 34 | 21 22 | 0 21 | 18 38 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 51 | 9 32 | 2 27 | 1 50 | 3 18 | 10 41 | 1 1 |
| M20 | 20 5 | 5 41 | 1 30 | 14 38 | 0 57 | 21 11 | 1 54 | 12 11 | 1 34 | 21 19 | 0 21 | 18 40 | 0 52 | 23 40 | 0 11 | 22 0 | 1 16 | 12 51 | 9 32 | 2 27 | 1 51 | 3 21 | 10 42 | 1 1 |
| T 21 | 19 52 | 11 7 | 2 29 | 14 17 | 1 15 | 21 19 | 1 52 | 12 21 | 1 34 | 21 17 | 0 21 | 18 41 | 0 53 | 23 40 | 0 11 | 22 1 | 1 16 | 12 51 | 9 32 | 2 27 | 1 52 | 3 25 | 10 43 | 1 1 |
| W22 | 19 38 | 16 13 | 3 21 | 13 58 | 1 32 | 21 27 | 1 49 | 12 31 | 1 34 | 21 14 | 0 21 | 18 42 | 0 53 | 23 40 | 0 11 | 22 1 | 1 17 | 12 51 | 9 32 | 2 26 | 1 54 | 3 28 | 10 43 | 1 1 |
| T 23 | 19 24 | 20 45 | 4 6 | 13 43 | 1 50 | 21 33 | 1 46 | 12 41 | 1 34 | 21 12 | 0 21 | 18 44 | 0 53 | 23 40 | 0 11 | 22 1 | 1 17 | 12 51 | 9 32 | 2 27 | 1 55 | 3 32 | 10 44 | 1 1 |
| F 24 | 19 10 | 24 31 | 4 40 | 13 31 | 2 8 | 21 40 | 1 43 | 12 50 | 1 34 | 21 9 | 0 21 | 18 45 | 0 53 | 23 40 | 0 11 | 22 1 | 1 17 | 12 52 | 9 31 | 2 28 | 1 56 | 3 35 | 10 44 | 1 0 |
| S 25 | 18 55 | 27 12 | 5 1 | 13 24 | 2 25 | 21 45 | 1 40 | 13 0 | 1 34 | 21 6 | 0 21 | 18 47 | 0 53 | 23 40 | 0 11 | 22 1 | 1 17 | 12 52 | 9 31 | 2 30 | 1 58 | 3 38 | 10 44 | 1 0 |
| S 26 | 18 40 | 28 31 | 5 8 | 13 20 | 2 41 | 21 50 | 1 37 | 13 9 | 1 34 | 21 4 | 0 22 | 18 48 | 0 53 | 23 40 | 0 11 | 22 1 | 1 17 | 12 52 | 9 31 | 2 33 | 1 59 | 3 42 | 10 45 | 1 0 |
| M27 | 18 24 | 28 12 | 4 58 | 13 20 | 2 56 | 21 55 | 1 34 | 13 19 | 1 34 | 21 1 | 0 22 | 18 50 | 0 53 | 23 40 | 0 11 | 22 1 | 1 17 | 12 52 | 9 31 | 2 36 | 2 0 | 3 45 | 10 45 | 1 0 |
| T 28 | 18 9 | 26 8 | 4 31 | 13 24 | 3 9 | 21 59 | 1 31 | 13 28 | 1 34 | 20 58 | 0 22 | 18 51 | 0 53 | 23 40 | 0 12 | 22 1 | 1 17 | 12 52 | 9 31 | 2 39 | 2 1 | 3 49 | 10 45 | 0 59 |
| W29 | 17 53 | 22 24 | 3 46 | 13 32 | 3 20 | 22 2 | 1 27 | 13 37 | 1 34 | 20 55 | 0 22 | 18 52 | 0 53 | 23 41 | 0 12 | 22 1 | 1 17 | 12 52 | 9 30 | 2 42 | 2 3 | 3 52 | 10 45 | 0 59 |
| T 30 | 17 36 | 17 14 | 2 46 | 13 43 | 3 29 | 22 4 | 1 24 | 13 47 | 1 33 | 20 53 | 0 22 | 18 54 | 0 54 | 23 41 | 0 12 | 22 1 | 1 17 | 12 52 | 9 30 | 2 44 | 2 4 | 3 56 | 10 46 | 0 59 |
| F 31 | 17s19 | 11s 3 | 1s35 | 13s56 | 3n35 | 22s 6 | 1n21 | 13s56 | 1n33 | 20s50 | 0s22 | 18n55 | 0n54 | 23s41 | 0s12 | 22s 1 | 1n17 | 12n53 | 9s30 | 2s45 | 2s 5 | 3s59 | 10s46 | 0s59 |

Julian Day Number = 2324806.5, Delta T = 41.22 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'49, Lahiri = 19°00'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## FEBRUARY 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 46 13 | 12♒40'22 | 19♓59 | 10°R13 | 4♑10 | 12♏17 | 28♑53 | 8°R52 | 29♐13 | 22♐58 | 12°R10 | 23°D 3 | 24♓43 | 7♎31 | 25♎26 | S 1 |
| S 2 | 8 50 9 | 13°41'10 | 4♈33 | 9♒ 2 | 5°23 | 12°46 | 29° 7 | 8♌47 | 29°15 | 22°59 | 12♊10 | 23♓ 3 | 24°39 | 7°38 | 25°27 | S 2 |
| M 3 | 8 54 6 | 14°41'57 | 18°59 | 7°53 | 6°35 | 13°14 | 29°20 | 8°42 | 29°18 | 23° 1 | 12° 9 | 23° 4 | 24°36 | 7°44 | 25°27 | M 3 |
| T 4 | 8 58 2 | 15°42'42 | 3♉14 | 6°49 | 7°47 | 13°42 | 29°34 | 8°37 | 29°21 | 23° 2 | 12° 9 | 23° 6 | 24°33 | 7°51 | 25°28 | T 4 |
| W 5 | 9 1 59 | 16°43'26 | 17°15 | 5°51 | 9° 0 | 14°10 | 29°48 | 8°32 | 29°24 | 23° 4 | 12° 8 | 23°R 6 | 24°30 | 7°58 | 25°28 | W 5 |
| T 6 | 9 5 55 | 17°44'08 | 1♊ 1 | 5° 0 | 10°13 | 14°38 | 0♒ 2 | 8°28 | 29°27 | 23° 5 | 12° 8 | 23° 5 | 24°27 | 8° 4 | 25°28 | T 6 |
| F 7 | 9 9 52 | 18°44'48 | 14°34 | 4°16 | 11°25 | 15° 6 | 0°16 | 8°23 | 29°29 | 23° 7 | 12° 7 | 23° 3 | 24°24 | 8°11 | 25°R28 | F 7 |
| S 8 | 9 13 49 | 19°45'27 | 27°53 | 3°39 | 12°38 | 15°33 | 0°30 | 8°18 | 29°32 | 23° 8 | 12° 7 | 22°59 | 24°20 | 8°18 | 25°28 | S 8 |
| S 9 | 9 17 45 | 20°46'04 | 10♋59 | 3°11 | 13°50 | 16° 0 | 0°44 | 8°13 | 29°34 | 23°10 | 12° 7 | 22°54 | 24°17 | 8°24 | 25°28 | S 9 |
| M10 | 9 21 42 | 21°46'39 | 23°51 | 2°50 | 15° 3 | 16°27 | 0°57 | 8° 9 | 29°37 | 23°11 | 12° 6 | 22°48 | 24°14 | 8°31 | 25°28 | M10 |
| T 11 | 9 25 38 | 22°47'13 | 6♌31 | 2°38 | 16°16 | 16°54 | 1°11 | 8° 4 | 29°40 | 23°12 | 12° 6 | 22°43 | 24°11 | 8°38 | 25°27 | T 11 |
| W12 | 9 29 35 | 23°47'45 | 18°59 | 2°D32 | 17°29 | 17°21 | 1°25 | 7°59 | 29°42 | 23°14 | 12° 6 | 22°39 | 24° 8 | 8°44 | 25°27 | W12 |
| T 13 | 9 33 31 | 24°48'15 | 1♍15 | 2°34 | 18°41 | 17°47 | 1°38 | 7°55 | 29°44 | 23°15 | 12° 6 | 22°35 | 24° 4 | 8°51 | 25°26 | T 13 |
| F 14 | 9 37 28 | 25°48'44 | 13°20 | 2°43 | 19°54 | 18°13 | 1°52 | 7°50 | 29°47 | 23°16 | 12° 5 | 22°34 | 24° 1 | 8°58 | 25°25 | F 14 |
| S 15 | 9 41 24 | 26°49'11 | 25°17 | 2°57 | 21° 7 | 18°39 | 2° 5 | 7°46 | 29°49 | 23°18 | 12° 5 | 22°D33 | 23°58 | 9° 4 | 25°25 | S 15 |
| S 16 | 9 45 21 | 27°49'37 | 7♎ 8 | 3°18 | 22°20 | 19° 5 | 2°19 | 7°41 | 29°52 | 23°19 | 12° 5 | 22°34 | 23°55 | 9°11 | 25°24 | S 16 |
| M17 | 9 49 18 | 28°50'01 | 18°56 | 3°44 | 23°33 | 19°30 | 2°32 | 7°37 | 29°54 | 23°20 | 12° 5 | 22°36 | 23°52 | 9°18 | 25°23 | M17 |
| T 18 | 9 53 14 | 29°50'23 | 0♏44 | 4°15 | 24°46 | 19°56 | 2°46 | 7°32 | 29°56 | 23°21 | 12° 5 | 22°37 | 23°49 | 9°24 | 25°21 | T 18 |
| W19 | 9 57 11 | 0♓50'45 | 12°38 | 4°51 | 25°59 | 20°20 | 2°59 | 7°28 | 29°58 | 23°22 | 12° 5 | 22°39 | 23°45 | 9°31 | 25°20 | W19 |
| T 20 | 10 1 7 | 1°51'05 | 24°41 | 5°31 | 27°12 | 20°45 | 3°12 | 7°24 | 0♑ 1 | 23°24 | 12° 4 | 22°40 | 23°42 | 9°37 | 25°19 | T 20 |
| F 21 | 10 5 4 | 2°51'23 | 6♐59 | 6°15 | 28°25 | 21°10 | 3°26 | 7°20 | 0° 3 | 23°25 | 12° 4 | 22°R40 | 23°39 | 9°44 | 25°17 | F 21 |
| S 22 | 10 9 0 | 3°51'40 | 19°36 | 7° 2 | 29°38 | 21°34 | 3°39 | 7°15 | 0° 5 | 23°26 | 12° 4 | 22°39 | 23°36 | 9°51 | 25°15 | S 22 |
| S 23 | 10 12 57 | 4°51'56 | 2♑36 | 7°53 | 0♒51 | 21°58 | 3°52 | 7°11 | 0° 7 | 23°27 | 12° 4 | 22°38 | 23°33 | 9°57 | 25°14 | S 23 |
| M24 | 10 16 53 | 5°52'10 | 16° 2 | 8°48 | 2° 4 | 22°21 | 4° 5 | 7° 7 | 0° 9 | 23°28 | 12°D 4 | 22°36 | 23°29 | 10° 4 | 25°12 | M24 |
| T 25 | 10 20 50 | 6°52'22 | 29°55 | 9°45 | 3°17 | 22°44 | 4°18 | 7° 3 | 0°11 | 23°29 | 12° 4 | 22°33 | 23°26 | 10°11 | 25°10 | T 25 |
| W26 | 10 24 47 | 7°52'33 | 14♒13 | 10°45 | 4°30 | 23° 7 | 4°31 | 7° 0 | 0°13 | 23°30 | 12° 4 | 22°31 | 23°23 | 10°17 | 25° 8 | W26 |
| T 27 | 10 28 43 | 8°52'42 | 28°53 | 11°48 | 5°43 | 23°30 | 4°44 | 6°56 | 0°14 | 23°31 | 12° 4 | 22°30 | 23°20 | 10°24 | 25° 6 | T 27 |
| F 28 | 10 32 40 | 9♓52'49 | 13♓48 | 12♒53 | 6♒57 | 23♏52 | 4♒57 | 6♌52 | 0♑16 | 23♐31 | 12♊ 4 | 22♓29 | 23♓17 | 10♎31 | 25♎ 3 | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 2 | 4s14 | 0s17 | 14s11 | 3n40 | 22s 8 | 1n18 | 14s 4 | 1n33 | 20s47 | 0s22 | 18n57 | 0n54 | 23s41 | 0s12 | 22s 1 | 1n17 | 12n53 | 9s30 | 2s46 | 2s 6 | 4s 2 | 10s46 | 0s59 |
| S 2 | 16 45 | 2n46 | 1n 2 | 14 28 | 3 41 | 22 8 | 1 15 | 14 13 | 1 33 | 20 44 | 0 22 | 18 58 | 0 54 | 23 41 | 0 12 | 22 1 | 1 17 | 12 53 | 9 30 | 2 46 | 2 8 | 4 6 | 10 46 | 0 58 |
| M 3 | 16 27 | 9 33 | 2 17 | 14 46 | 3 41 | 22 8 | 1 11 | 14 22 | 1 33 | 20 42 | 0 22 | 18 59 | 0 54 | 23 41 | 0 12 | 22 1 | 1 17 | 12 53 | 9 29 | 2 45 | 2 9 | 4 9 | 10 46 | 0 58 |
| T 4 | 16 9 | 15 46 | 3 21 | 15 5 | 3 38 | 22 8 | 1 8 | 14 30 | 1 33 | 20 39 | 0 22 | 19 1 | 0 54 | 23 41 | 0 12 | 22 2 | 1 17 | 12 53 | 9 29 | 2 45 | 2 10 | 4 13 | 10 46 | 0 58 |
| W 5 | 15 51 | 21 3 | 4 13 | 15 24 | 3 33 | 22 6 | 1 5 | 14 39 | 1 33 | 20 36 | 0 23 | 19 2 | 0 54 | 23 41 | 0 12 | 22 2 | 1 17 | 12 53 | 9 29 | 2 45 | 2 11 | 4 16 | 10 46 | 0 58 |
| T 6 | 15 33 | 25 7 | 4 49 | 15 43 | 3 27 | 22 4 | 1 1 | 14 47 | 1 32 | 20 33 | 0 23 | 19 3 | 0 54 | 23 41 | 0 12 | 22 2 | 1 17 | 12 54 | 9 29 | 2 45 | 2 13 | 4 19 | 10 46 | 0 57 |
| F 7 | 15 14 | 27 42 | 5 8 | 16 1 | 3 19 | 22 2 | 0 58 | 14 56 | 1 32 | 20 30 | 0 23 | 19 5 | 0 54 | 23 41 | 0 12 | 22 2 | 1 17 | 12 54 | 9 28 | 2 46 | 2 14 | 4 23 | 10 45 | 0 57 |
| S 8 | 14 55 | 28 39 | 5 11 | 16 18 | 3 9 | 21 59 | 0 55 | 15 4 | 1 32 | 20 27 | 0 23 | 19 6 | 0 54 | 23 41 | 0 12 | 22 2 | 1 17 | 12 54 | 9 28 | 2 47 | 2 15 | 4 26 | 10 45 | 0 57 |
| S 9 | 14 36 | 27 57 | 4 57 | 16 35 | 2 59 | 21 55 | 0 51 | 15 12 | 1 32 | 20 25 | 0 23 | 19 7 | 0 54 | 23 41 | 0 12 | 22 2 | 1 17 | 12 54 | 9 28 | 2 49 | 2 16 | 4 30 | 10 45 | 0 57 |
| M10 | 14 17 | 25 46 | 4 28 | 16 50 | 2 48 | 21 51 | 0 48 | 15 20 | 1 32 | 20 22 | 0 23 | 19 9 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 54 | 9 28 | 2 52 | 2 18 | 4 33 | 10 44 | 0 56 |
| T 11 | 13 57 | 22 19 | 3 46 | 17 5 | 2 36 | 21 45 | 0 45 | 15 27 | 1 31 | 20 19 | 0 23 | 19 10 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 55 | 9 27 | 2 54 | 2 19 | 4 37 | 10 44 | 0 56 |
| W12 | 13 37 | 17 55 | 2 54 | 17 18 | 2 24 | 21 40 | 0 41 | 15 35 | 1 31 | 20 16 | 0 23 | 19 11 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 55 | 9 27 | 2 56 | 2 20 | 4 40 | 10 44 | 0 56 |
| T 13 | 13 17 | 12 50 | 1 54 | 17 30 | 2 11 | 21 33 | 0 38 | 15 43 | 1 31 | 20 13 | 0 24 | 19 12 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 55 | 9 27 | 2 57 | 2 21 | 4 43 | 10 43 | 0 56 |
| F 14 | 12 56 | 7 20 | 0 50 | 17 40 | 1 59 | 21 26 | 0 34 | 15 50 | 1 31 | 20 10 | 0 24 | 19 14 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 55 | 9 27 | 2 57 | 2 23 | 4 47 | 10 43 | 0 55 |
| S 15 | 12 36 | 1 39 | 0s15 | 17 49 | 1 46 | 21 19 | 0 31 | 15 58 | 1 30 | 20 7 | 0 24 | 19 15 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 55 | 9 26 | 2 58 | 2 24 | 4 50 | 10 42 | 0 55 |
| S 16 | 12 15 | 4s 3 | 1 19 | 17 57 | 1 33 | 21 11 | 0 28 | 16 5 | 1 30 | 20 4 | 0 24 | 19 16 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 56 | 9 26 | 2 57 | 2 25 | 4 54 | 10 42 | 0 55 |
| M17 | 11 54 | 9 35 | 2 20 | 18 3 | 1 21 | 21 2 | 0 24 | 16 12 | 1 30 | 20 1 | 0 24 | 19 17 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 56 | 9 26 | 2 57 | 2 27 | 4 57 | 10 41 | 0 55 |
| T 18 | 11 33 | 14 48 | 3 15 | 18 7 | 1 9 | 20 52 | 0 21 | 16 19 | 1 29 | 19 58 | 0 24 | 19 19 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 56 | 9 26 | 2 56 | 2 28 | 5 0 | 10 40 | 0 54 |
| W19 | 11 12 | 19 30 | 4 2 | 18 11 | 0 56 | 20 42 | 0 18 | 16 26 | 1 29 | 19 55 | 0 24 | 19 20 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 56 | 9 25 | 2 55 | 2 29 | 5 4 | 10 39 | 0 54 |
| T 20 | 10 50 | 23 29 | 4 39 | 18 13 | 0 45 | 20 31 | 0 15 | 16 33 | 1 29 | 19 52 | 0 24 | 19 21 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 57 | 9 25 | 2 55 | 2 30 | 5 7 | 10 39 | 0 54 |
| F 21 | 10 29 | 26 31 | 5 4 | 18 13 | 0 33 | 20 20 | 0 11 | 16 40 | 1 28 | 19 49 | 0 24 | 19 22 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 57 | 9 25 | 2 55 | 2 32 | 5 11 | 10 38 | 0 54 |
| S 22 | 10 7 | 28 19 | 5 16 | 18 12 | 0 22 | 20 8 | 0 8 | 16 46 | 1 28 | 19 46 | 0 25 | 19 23 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 57 | 9 25 | 2 55 | 2 33 | 5 14 | 10 37 | 0 53 |
| S 23 | 9 45 | 28 39 | 5 11 | 18 10 | 0 11 | 19 56 | 0 5 | 16 53 | 1 28 | 19 43 | 0 25 | 19 24 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 57 | 9 24 | 2 56 | 2 34 | 5 17 | 10 36 | 0 53 |
| M24 | 9 23 | 27 19 | 4 50 | 18 6 | 0 0 | 19 43 | 0 2 | 16 59 | 1 27 | 19 41 | 0 25 | 19 25 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 57 | 9 24 | 2 57 | 2 35 | 5 21 | 10 35 | 0 53 |
| T 25 | 9 0 | 24 18 | 4 12 | 18 0 | 0s10 | 19 29 | 0s 1 | 17 6 | 1 27 | 19 38 | 0 25 | 19 26 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 58 | 9 24 | 2 58 | 2 37 | 5 24 | 10 34 | 0 52 |
| W26 | 8 38 | 19 44 | 3 16 | 17 54 | 0 20 | 19 15 | 0 5 | 17 12 | 1 26 | 19 35 | 0 25 | 19 27 | 0 55 | 23 41 | 0 12 | 22 2 | 1 17 | 12 58 | 9 24 | 2 58 | 2 38 | 5 28 | 10 33 | 0 52 |
| T 27 | 8 15 | 13 52 | 2 7 | 17 46 | 0 30 | 19 0 | 0 8 | 17 18 | 1 26 | 19 32 | 0 25 | 19 28 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 12 58 | 9 23 | 2 59 | 2 39 | 5 31 | 10 32 | 0 52 |
| F 28 | 7s53 | 7s 7 | 0s48 | 17s36 | 0s39 | 18s45 | 0s11 | 17s24 | 1n26 | 19s29 | 0s25 | 19n29 | 0n56 | 23s41 | 0s12 | 22s 2 | 1n18 | 12n58 | 9s23 | 2s59 | 2s40 | 5s34 | 10s31 | 0s52 |

Julian Day Number = 2324837.5, Delta T = 41.16 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'53, Lahiri = 19°00'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## MARCH 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 36 36 | 10♓52'54 | 28♓49 | 14♒ 0 | 8♒10 | 24♏14 | 5♒10 | 6°R48 | 0♑18 | 23♐32 | 12♊ 5 | 22°D29 | 23♓14 | 10♎37 | 25°R 1 | S 1 |
| S 2 | 10 40 33 | 11°52'57 | 13♈49 | 15°10 | 9°23 | 24°36 | 5°23 | 6♌45 | 0°20 | 23°33 | 12° 5 | 22♓30 | 23°10 | 10°44 | 24♎58 | S 2 |
| M 3 | 10 44 29 | 12°52'58 | 28°39 | 16°21 | 10°36 | 24°57 | 5°36 | 6°41 | 0°21 | 23°34 | 12° 5 | 22°30 | 23° 7 | 10°51 | 24°56 | M 3 |
| T 4 | 10 48 26 | 13°52'57 | 13♉14 | 17°35 | 11°49 | 25°18 | 5°48 | 6°38 | 0°23 | 23°35 | 12° 5 | 22°31 | 23° 4 | 10°57 | 24°53 | T 4 |
| W 5 | 10 52 22 | 14°52'54 | 27°28 | 18°50 | 13° 3 | 25°39 | 6° 1 | 6°35 | 0°25 | 23°35 | 12° 5 | 22°32 | 23° 1 | 11° 4 | 24°50 | W 5 |
| T 6 | 10 56 19 | 15°52'48 | 11♊20 | 20° 7 | 14°16 | 25°59 | 6°13 | 6°31 | 0°26 | 23°36 | 12° 5 | 22°R32 | 22°58 | 11°11 | 24°47 | T 6 |
| F 7 | 11 0 16 | 16°52'41 | 24°51 | 21°25 | 15°29 | 26°19 | 6°26 | 6°28 | 0°28 | 23°37 | 12° 6 | 22°32 | 22°55 | 11°17 | 24°44 | F 7 |
| S 8 | 11 4 12 | 17°52'31 | 8♋ 0 | 22°46 | 16°42 | 26°39 | 6°38 | 6°25 | 0°29 | 23°37 | 12° 6 | 22°32 | 22°51 | 11°24 | 24°41 | S 8 |
| S 9 | 11 8 9 | 18°52'18 | 20°52 | 24° 8 | 17°56 | 26°58 | 6°51 | 6°22 | 0°30 | 23°38 | 12° 6 | 22°31 | 22°48 | 11°31 | 24°38 | S 9 |
| M10 | 11 12 5 | 19°52'04 | 3♌28 | 25°31 | 19° 9 | 27°16 | 7° 3 | 6°19 | 0°32 | 23°38 | 12° 6 | 22°31 | 22°45 | 11°37 | 24°35 | M10 |
| T 11 | 11 16 2 | 20°51'47 | 15°50 | 26°56 | 20°22 | 27°35 | 7°15 | 6°16 | 0°33 | 23°39 | 12° 7 | 22°31 | 22°42 | 11°44 | 24°32 | T 11 |
| W12 | 11 19 58 | 21°51'28 | 28° 1 | 28°22 | 21°36 | 27°53 | 7°27 | 6°14 | 0°34 | 23°39 | 12° 7 | 22°31 | 22°39 | 11°51 | 24°28 | W12 |
| T 13 | 11 23 55 | 22°51'07 | 10♍ 3 | 29°50 | 22°49 | 28°10 | 7°39 | 6°11 | 0°35 | 23°40 | 12° 7 | 22°D31 | 22°35 | 11°57 | 24°25 | T 13 |
| F 14 | 11 27 51 | 23°50'44 | 21°59 | 1♓19 | 24° 2 | 28°27 | 7°51 | 6° 9 | 0°37 | 23°40 | 12° 8 | 22°R31 | 22°32 | 12° 4 | 24°21 | F 14 |
| S 15 | 11 31 48 | 24°50'19 | 3♎51 | 2°49 | 25°16 | 28°44 | 8° 3 | 6° 6 | 0°38 | 23°40 | 12° 8 | 22°31 | 22°29 | 12°10 | 24°18 | S 15 |
| S 16 | 11 35 44 | 25°49'51 | 15°39 | 4°21 | 26°29 | 29° 0 | 8°15 | 6° 4 | 0°39 | 23°41 | 12° 9 | 22°30 | 22°26 | 12°17 | 24°14 | S 16 |
| M17 | 11 39 41 | 26°49'22 | 27°28 | 5°54 | 27°42 | 29°16 | 8°26 | 6° 2 | 0°40 | 23°41 | 12° 9 | 22°30 | 22°23 | 12°24 | 24°10 | M17 |
| T 18 | 11 43 38 | 27°48'51 | 9♏19 | 7°29 | 28°56 | 29°31 | 8°38 | 6° 0 | 0°41 | 23°41 | 12°10 | 22°29 | 22°20 | 12°30 | 24° 6 | T 18 |
| W19 | 11 47 34 | 28°48'18 | 21°15 | 9° 5 | 0♓ 9 | 29°46 | 8°50 | 5°58 | 0°41 | 23°42 | 12°10 | 22°28 | 22°16 | 12°37 | 24° 2 | W19 |
| T 20 | 11 51 31 | 29°47'43 | 3♐20 | 10°42 | 1°23 | 0♐ 0 | 9° 1 | 5°56 | 0°42 | 23°42 | 12°11 | 22°28 | 22°13 | 12°44 | 23°58 | T 20 |
| F 21 | 11 55 27 | 0♈47'07 | 15°38 | 12°20 | 2°36 | 0°14 | 9°12 | 5°54 | 0°43 | 23°42 | 12°11 | 22°27 | 22°10 | 12°50 | 23°54 | F 21 |
| S 22 | 11 59 24 | 1°46'29 | 28°12 | 14° 0 | 3°49 | 0°28 | 9°24 | 5°52 | 0°44 | 23°42 | 12°12 | 22°D27 | 22° 7 | 12°57 | 23°50 | S 22 |
| S 23 | 12 3 20 | 2°45'49 | 11♑ 6 | 15°41 | 5° 3 | 0°40 | 9°35 | 5°51 | 0°44 | 23°42 | 12°12 | 22°27 | 22° 4 | 13° 4 | 23°46 | S 23 |
| M24 | 12 7 17 | 3°45'07 | 24°24 | 17°24 | 6°16 | 0°53 | 9°46 | 5°49 | 0°45 | 23°42 | 12°13 | 22°27 | 22° 1 | 13°10 | 23°42 | M24 |
| T 25 | 12 11 13 | 4°44'23 | 8♒ 8 | 19° 8 | 7°30 | 1° 4 | 9°57 | 5°48 | 0°46 | 23°42 | 12°13 | 22°28 | 21°57 | 13°17 | 23°38 | T 25 |
| W26 | 12 15 10 | 5°43'37 | 22°19 | 20°53 | 8°43 | 1°15 | 10° 8 | 5°46 | 0°46 | 23°R42 | 12°14 | 22°29 | 21°54 | 13°24 | 23°33 | W26 |
| T 27 | 12 19 7 | 6°42'50 | 6♓54 | 22°40 | 9°57 | 1°26 | 10°18 | 5°45 | 0°47 | 23°42 | 12°15 | 22°30 | 21°51 | 13°30 | 23°29 | T 27 |
| F 28 | 12 23 3 | 7°42'01 | 21°50 | 24°28 | 11°10 | 1°36 | 10°29 | 5°44 | 0°47 | 23°42 | 12°15 | 22°R30 | 21°48 | 13°37 | 23°25 | F 28 |
| S 29 | 12 27 0 | 8°41'09 | 6♈59 | 26°18 | 12°23 | 1°45 | 10°40 | 5°43 | 0°47 | 23°42 | 12°16 | 22°30 | 21°45 | 13°44 | 23°20 | S 29 |
| S 30 | 12 30 56 | 9°40'16 | 22°13 | 28° 8 | 13°37 | 1°54 | 10°50 | 5°42 | 0°48 | 23°42 | 12°17 | 22°29 | 21°41 | 13°50 | 23°16 | S 30 |
| M31 | 12 34 53 | 10♈39'20 | 7♉20 | 0♈ 1 | 14♓50 | 2♐ 2 | 11♒ 1 | 5♌41 | 0♑48 | 23♐42 | 12♊18 | 22♓27 | 21♓38 | 13♎57 | 23♎11 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s30 | 0n 4 | 0n35 | 17s25 | 0s48 | 18s29 | 0s14 | 17s30 | 1n25 | 19s26 | 0s26 | 19n30 | 0n56 | 23s41 | 0s12 | 22s 2 | 1n18 | 12n59 | 9s23 | 2s59 | 2s42 | 5s38 | 10s30 | 0s51 |
| S 2 | 7 7 | 7 14 | 1 56 | 17 13 | 0 56 | 18 13 | 0 17 | 17 35 | 1 25 | 19 23 | 0 26 | 19 31 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 12 59 | 9 23 | 2 59 | 2 43 | 5 41 | 10 29 | 0 51 |
| M 3 | 6 44 | 13 56 | 3 8 | 16 59 | 1 4 | 17 56 | 0 20 | 17 41 | 1 24 | 19 20 | 0 26 | 19 32 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 12 59 | 9 22 | 2 59 | 2 44 | 5 45 | 10 27 | 0 51 |
| T 4 | 6 21 | 19 45 | 4 6 | 16 44 | 1 12 | 17 38 | 0 23 | 17 47 | 1 23 | 19 17 | 0 26 | 19 33 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 0 | 9 22 | 2 58 | 2 45 | 5 48 | 10 26 | 0 50 |
| W 5 | 5 58 | 24 18 | 4 48 | 16 28 | 1 19 | 17 20 | 0 25 | 17 52 | 1 23 | 19 14 | 0 26 | 19 34 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 0 | 9 22 | 2 58 | 2 47 | 5 51 | 10 25 | 0 50 |
| T 6 | 5 35 | 27 19 | 5 12 | 16 10 | 1 26 | 17 2 | 0 28 | 17 57 | 1 22 | 19 11 | 0 26 | 19 35 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 0 | 9 22 | 2 58 | 2 48 | 5 55 | 10 24 | 0 50 |
| F 7 | 5 11 | 28 40 | 5 17 | 15 51 | 1 32 | 16 43 | 0 31 | 18 3 | 1 22 | 19 8 | 0 26 | 19 36 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 0 | 9 22 | 2 58 | 2 49 | 5 58 | 10 22 | 0 50 |
| S 8 | 4 48 | 28 20 | 5 6 | 15 30 | 1 39 | 16 24 | 0 34 | 18 8 | 1 21 | 19 5 | 0 27 | 19 36 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 1 | 9 21 | 2 58 | 2 50 | 6 2 | 10 21 | 0 49 |
| S 9 | 4 25 | 26 28 | 4 40 | 15 9 | 1 44 | 16 4 | 0 36 | 18 13 | 1 20 | 19 2 | 0 27 | 19 37 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 1 | 9 21 | 2 58 | 2 52 | 6 5 | 10 19 | 0 49 |
| M10 | 4 1 | 23 19 | 4 0 | 14 45 | 1 49 | 15 44 | 0 39 | 18 18 | 1 20 | 18 59 | 0 27 | 19 38 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 1 | 9 21 | 2 59 | 2 53 | 6 8 | 10 18 | 0 49 |
| T 11 | 3 38 | 19 9 | 3 10 | 14 21 | 1 54 | 15 23 | 0 42 | 18 23 | 1 19 | 18 56 | 0 27 | 19 39 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 1 | 9 21 | 2 59 | 2 54 | 6 12 | 10 16 | 0 48 |
| W12 | 3 14 | 14 15 | 2 12 | 13 55 | 1 59 | 15 2 | 0 44 | 18 27 | 1 18 | 18 53 | 0 27 | 19 39 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 2 | 9 20 | 2 59 | 2 55 | 6 15 | 10 15 | 0 48 |
| T 13 | 2 51 | 8 52 | 1 9 | 13 28 | 2 3 | 14 40 | 0 47 | 18 32 | 1 18 | 18 50 | 0 27 | 19 40 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 2 | 9 20 | 2 59 | 2 57 | 6 18 | 10 13 | 0 48 |
| F 14 | 2 27 | 3 14 | 0 3 | 13 0 | 2 6 | 14 18 | 0 49 | 18 36 | 1 17 | 18 47 | 0 27 | 19 41 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 2 | 9 20 | 2 59 | 2 58 | 6 22 | 10 12 | 0 47 |
| S 15 | 2 3 | 2s29 | 1s 3 | 12 30 | 2 9 | 13 56 | 0 52 | 18 41 | 1 16 | 18 44 | 0 28 | 19 41 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 3 | 9 20 | 2 59 | 2 59 | 6 25 | 10 10 | 0 47 |
| S 16 | 1 40 | 8 6 | 2 5 | 11 59 | 2 12 | 13 33 | 0 54 | 18 45 | 1 15 | 18 41 | 0 28 | 19 42 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 3 | 9 19 | 2 59 | 3 1 | 6 29 | 10 8 | 0 47 |
| M17 | 1 16 | 13 25 | 3 2 | 11 27 | 2 14 | 13 10 | 0 56 | 18 49 | 1 14 | 18 38 | 0 28 | 19 42 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 3 | 9 19 | 2 59 | 3 2 | 6 32 | 10 7 | 0 46 |
| T 18 | 0 52 | 18 17 | 3 52 | 10 53 | 2 16 | 12 47 | 0 58 | 18 54 | 1 13 | 18 35 | 0 28 | 19 43 | 0 56 | 23 41 | 0 12 | 22 2 | 1 18 | 13 3 | 9 19 | 2 59 | 3 3 | 6 35 | 10 5 | 0 46 |
| W19 | 0 29 | 22 28 | 4 32 | 10 18 | 2 18 | 12 23 | 1 0 | 18 58 | 1 13 | 18 32 | 0 28 | 19 43 | 0 56 | 23 42 | 0 12 | 22 2 | 1 18 | 13 4 | 9 19 | 3 0 | 3 4 | 6 39 | 10 3 | 0 46 |
| T 20 | 0 5 | 25 46 | 5 0 | 9 42 | 2 19 | 11 59 | 1 3 | 19 2 | 1 12 | 18 30 | 0 28 | 19 44 | 0 56 | 23 42 | 0 12 | 22 2 | 1 18 | 13 4 | 9 18 | 3 0 | 3 6 | 6 42 | 10 1 | 0 45 |
| F 21 | 0n19 | 27 56 | 5 15 | 9 5 | 2 19 | 11 34 | 1 5 | 19 5 | 1 11 | 18 27 | 0 28 | 19 44 | 0 56 | 23 42 | 0 12 | 22 2 | 1 18 | 13 4 | 9 18 | 3 0 | 3 7 | 6 45 | 10 0 | 0 45 |
| S 22 | 0 42 | 28 44 | 5 16 | 8 27 | 2 19 | 11 10 | 1 7 | 19 9 | 1 10 | 18 24 | 0 29 | 19 45 | 0 56 | 23 42 | 0 12 | 22 2 | 1 18 | 13 5 | 9 18 | 3 0 | 3 8 | 6 49 | 9 58 | 0 45 |
| S 23 | 1 6 | 28 1 | 5 1 | 7 47 | 2 19 | 10 44 | 1 8 | 19 13 | 1 9 | 18 21 | 0 29 | 19 45 | 0 56 | 23 42 | 0 12 | 22 2 | 1 18 | 13 5 | 9 18 | 3 0 | 3 9 | 6 52 | 9 56 | 0 44 |
| M24 | 1 30 | 25 42 | 4 29 | 7 6 | 2 18 | 10 19 | 1 10 | 19 16 | 1 8 | 18 18 | 0 29 | 19 46 | 0 56 | 23 42 | 0 12 | 22 2 | 1 18 | 13 5 | 9 17 | 3 0 | 3 11 | 6 56 | 9 54 | 0 44 |
| T 25 | 1 53 | 21 50 | 3 42 | 6 24 | 2 16 | 9 53 | 1 12 | 19 20 | 1 6 | 18 15 | 0 29 | 19 46 | 0 56 | 23 42 | 0 13 | 22 2 | 1 18 | 13 6 | 9 17 | 3 0 | 3 12 | 6 59 | 9 52 | 0 44 |
| W26 | 2 17 | 16 37 | 2 40 | 5 41 | 2 14 | 9 27 | 1 14 | 19 23 | 1 5 | 18 13 | 0 29 | 19 46 | 0 56 | 23 42 | 0 13 | 22 2 | 1 18 | 13 6 | 9 17 | 2 59 | 3 13 | 7 2 | 9 50 | 0 43 |
| T 27 | 2 40 | 10 19 | 1 25 | 4 56 | 2 12 | 9 1 | 1 15 | 19 27 | 1 4 | 18 10 | 0 29 | 19 47 | 0 56 | 23 42 | 0 13 | 22 2 | 1 19 | 13 6 | 9 17 | 2 59 | 3 14 | 7 6 | 9 48 | 0 43 |
| F 28 | 3 4 | 3 18 | 0 4 | 4 11 | 2 9 | 8 35 | 1 17 | 19 30 | 1 3 | 18 7 | 0 30 | 19 47 | 0 56 | 23 42 | 0 13 | 22 2 | 1 19 | 13 7 | 9 17 | 2 59 | 3 16 | 7 9 | 9 46 | 0 43 |
| S 29 | 3 27 | 4n 0 | 1n19 | 3 24 | 2 6 | 8 8 | 1 18 | 19 33 | 1 2 | 18 4 | 0 30 | 19 47 | 0 56 | 23 42 | 0 13 | 22 2 | 1 19 | 13 7 | 9 16 | 2 59 | 3 17 | 7 12 | 9 44 | 0 42 |
| S 30 | 3 50 | 11 6 | 2 37 | 2 36 | 2 2 | 7 41 | 1 20 | 19 36 | 1 0 | 18 2 | 0 30 | 19 47 | 0 56 | 23 42 | 0 13 | 22 2 | 1 19 | 13 7 | 9 16 | 2 59 | 3 18 | 7 16 | 9 42 | 0 42 |
| M31 | 4n14 | 17n30 | 3n43 | 1s47 | 1s57 | 7s14 | 1s21 | 19s39 | 0n59 | 17s59 | 0s30 | 19n47 | 0n56 | 23s42 | 0s13 | 22s 2 | 1n19 | 13n 7 | 9s16 | 3s 0 | 3s19 | 7s19 | 9s40 | 0s42 |

Julian Day Number = 2324865.5, Delta T = 41.11 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'57, Lahiri = 19°00'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## APRIL 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 38 49 | 11♈38'23 | 22♉13 | 1♈55 | 16♓ 4 | 2♐10 | 11♒11 | 5°R41 | 0♑48 | 23°R42 | 12♊18 | 22°R24 | 21♓35 | 14♎ 4 | 23°R 7 | T 1 |
| W 2 | 12 42 46 | 12°37'23 | 6♊44 | 3°50 | 17°17 | 2°16 | 11°21 | 5♌40 | 0°48 | 23♐41 | 12°19 | 22♓22 | 21°32 | 14°10 | 23♎ 2 | W 2 |
| T 3 | 12 46 42 | 13°36'21 | 20°49 | 5°46 | 18°31 | 2°23 | 11°31 | 5°40 | 0°48 | 23°41 | 12°20 | 22°20 | 21°29 | 14°17 | 22°57 | T 3 |
| F 4 | 12 50 39 | 14°35'16 | 4♋26 | 7°44 | 19°44 | 2°28 | 11°41 | 5°40 | 0°R48 | 23°41 | 12°21 | 22°18 | 21°26 | 14°24 | 22°53 | F 4 |
| S 5 | 12 54 36 | 15°34'10 | 17°37 | 9°44 | 20°58 | 2°33 | 11°51 | 5°39 | 0°48 | 23°41 | 12°21 | 22°D18 | 21°22 | 14°30 | 22°48 | S 5 |
| S 6 | 12 58 32 | 16°33'00 | 0♌25 | 11°44 | 22°11 | 2°37 | 12° 1 | 5°D39 | 0°48 | 23°40 | 12°22 | 22°19 | 21°19 | 14°37 | 22°44 | S 6 |
| M 7 | 13 2 29 | 17°31'49 | 12°53 | 13°46 | 23°25 | 2°41 | 12°10 | 5°39 | 0°48 | 23°40 | 12°23 | 22°20 | 21°16 | 14°44 | 22°39 | M 7 |
| T 8 | 13 6 25 | 18°30'35 | 25° 6 | 15°49 | 24°38 | 2°44 | 12°20 | 5°39 | 0°48 | 23°39 | 12°24 | 22°22 | 21°13 | 14°50 | 22°34 | T 8 |
| W 9 | 13 10 22 | 19°29'19 | 7♍ 7 | 17°54 | 25°51 | 2°46 | 12°29 | 5°40 | 0°48 | 23°39 | 12°25 | 22°23 | 21°10 | 14°57 | 22°29 | W 9 |
| T 10 | 13 14 18 | 20°28'01 | 19° 1 | 19°59 | 27° 5 | 2°47 | 12°38 | 5°40 | 0°48 | 23°38 | 12°26 | 22°R24 | 21° 7 | 15° 3 | 22°25 | T 10 |
| F 11 | 13 18 15 | 21°26'41 | 0♎50 | 22° 5 | 28°18 | 2°R48 | 12°47 | 5°40 | 0°47 | 23°38 | 12°27 | 22°24 | 21° 3 | 15°10 | 22°20 | F 11 |
| S 12 | 13 22 11 | 22°25'18 | 12°38 | 24°11 | 29°32 | 2°48 | 12°56 | 5°41 | 0°47 | 23°37 | 12°28 | 22°22 | 21° 0 | 15°17 | 22°15 | S 12 |
| S 13 | 13 26 8 | 23°23'54 | 24°27 | 26°19 | 0♈45 | 2°47 | 13° 5 | 5°42 | 0°46 | 23°37 | 12°29 | 22°19 | 20°57 | 15°23 | 22°11 | S 13 |
| M14 | 13 30 5 | 24°22'27 | 6♏19 | 28°26 | 1°59 | 2°46 | 13°14 | 5°42 | 0°46 | 23°36 | 12°30 | 22°14 | 20°54 | 15°30 | 22° 6 | M14 |
| T 15 | 13 34 1 | 25°20'59 | 18°16 | 0♉33 | 3°12 | 2°44 | 13°23 | 5°43 | 0°46 | 23°36 | 12°31 | 22° 9 | 20°51 | 15°37 | 22° 1 | T 15 |
| W16 | 13 37 58 | 26°19'29 | 0♐19 | 2°41 | 4°26 | 2°41 | 13°31 | 5°44 | 0°45 | 23°35 | 12°32 | 22° 3 | 20°47 | 15°43 | 21°56 | W16 |
| T 17 | 13 41 54 | 27°17'58 | 12°32 | 4°47 | 5°39 | 2°37 | 13°39 | 5°45 | 0°44 | 23°34 | 12°33 | 21°57 | 20°44 | 15°50 | 21°52 | T 17 |
| F 18 | 13 45 51 | 28°16'24 | 24°55 | 6°53 | 6°52 | 2°32 | 13°48 | 5°47 | 0°44 | 23°34 | 12°34 | 21°52 | 20°41 | 15°57 | 21°47 | F 18 |
| S 19 | 13 49 47 | 29°14'49 | 7♑32 | 8°57 | 8° 6 | 2°27 | 13°56 | 5°48 | 0°43 | 23°33 | 12°35 | 21°48 | 20°38 | 16° 3 | 21°42 | S 19 |
| S 20 | 13 53 44 | 0♉13'13 | 20°25 | 11° 1 | 9°19 | 2°21 | 14° 4 | 5°49 | 0°42 | 23°32 | 12°36 | 21°46 | 20°35 | 16°10 | 21°38 | S 20 |
| M21 | 13 57 40 | 1°11'34 | 3♒38 | 13° 2 | 10°33 | 2°14 | 14°11 | 5°51 | 0°41 | 23°31 | 12°37 | 21°D45 | 20°32 | 16°17 | 21°33 | M21 |
| T 22 | 14 1 37 | 2° 9'55 | 17°12 | 15° 1 | 11°46 | 2° 7 | 14°19 | 5°53 | 0°41 | 23°30 | 12°38 | 21°46 | 20°28 | 16°23 | 21°29 | T 22 |
| W23 | 14 5 34 | 3° 8'13 | 1♓10 | 16°58 | 13° 0 | 1°58 | 14°27 | 5°54 | 0°40 | 23°29 | 12°39 | 21°47 | 20°25 | 16°30 | 21°24 | W23 |
| T 24 | 14 9 30 | 4° 6'30 | 15°32 | 18°52 | 14°13 | 1°49 | 14°34 | 5°56 | 0°39 | 23°29 | 12°40 | 21°R48 | 20°22 | 16°37 | 21°19 | T 24 |
| F 25 | 14 13 27 | 5° 4'46 | 0♈16 | 20°43 | 15°27 | 1°39 | 14°41 | 5°58 | 0°38 | 23°28 | 12°41 | 21°48 | 20°19 | 16°43 | 21°15 | F 25 |
| S 26 | 14 17 23 | 6° 2'59 | 15°16 | 22°31 | 16°40 | 1°29 | 14°48 | 6° 0 | 0°37 | 23°27 | 12°42 | 21°46 | 20°16 | 16°50 | 21°10 | S 26 |
| S 27 | 14 21 20 | 7° 1'12 | 0♉25 | 24°16 | 17°54 | 1°18 | 14°55 | 6° 2 | 0°36 | 23°26 | 12°44 | 21°42 | 20°12 | 16°57 | 21° 6 | S 27 |
| M28 | 14 25 16 | 7°59'22 | 15°34 | 25°57 | 19° 7 | 1° 5 | 15° 2 | 6° 4 | 0°35 | 23°25 | 12°45 | 21°37 | 20° 9 | 17° 3 | 21° 2 | M28 |
| T 29 | 14 29 13 | 8°57'31 | 0♊33 | 27°35 | 20°21 | 0°53 | 15° 9 | 6° 7 | 0°33 | 23°24 | 12°46 | 21°29 | 20° 6 | 17°10 | 20°57 | T 29 |
| W30 | 14 33 9 | 9♉55'38 | 15♊13 | 29♉ 9 | 21♈34 | 0♐39 | 15♒15 | 6♌ 9 | 0♑32 | 23♐23 | 12♊47 | 21♓22 | 20♓ 3 | 17♎17 | 20♎53 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n37 | 22n45 | 4n33 | 0s57 | 1s52 | 6s47 | 1s23 | 19s42 | 0n58 | 17s56 | 0s30 | 19n48 | 0n56 | 23s42 | 0s13 | 22s 2 | 1n19 | 13n 8 | 9s16 | 3s 1 | 3s21 | 7s22 | 9s38 | 0s41 |
| W 2 | 5 0 | 26 28 | 5 4 | 0 6 | 1 47 | 6 19 | 1 24 | 19 44 | 0 56 | 17 54 | 0 30 | 19 48 | 0 56 | 23 42 | 0 13 | 22 2 | 1 19 | 13 8 | 9 15 | 3 2 | 3 22 | 7 26 | 9 36 | 0 41 |
| T 3 | 5 23 | 28 25 | 5 15 | 0n45 | 1 41 | 5 51 | 1 25 | 19 47 | 0 55 | 17 51 | 0 31 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 8 | 9 15 | 3 3 | 3 23 | 7 29 | 9 34 | 0 41 |
| F 4 | 5 46 | 28 33 | 5 9 | 1 38 | 1 34 | 5 23 | 1 26 | 19 49 | 0 53 | 17 49 | 0 31 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 9 | 9 15 | 3 3 | 3 24 | 7 32 | 9 32 | 0 40 |
| S 5 | 6 8 | 27 2 | 4 45 | 2 31 | 1 27 | 4 55 | 1 27 | 19 52 | 0 52 | 17 46 | 0 31 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 9 | 9 15 | 3 4 | 3 26 | 7 36 | 9 30 | 0 40 |
| S 6 | 6 31 | 24 9 | 4 9 | 3 26 | 1 20 | 4 27 | 1 28 | 19 54 | 0 50 | 17 43 | 0 31 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 9 | 9 15 | 3 3 | 3 27 | 7 39 | 9 28 | 0 39 |
| M 7 | 6 54 | 20 11 | 3 21 | 4 20 | 1 12 | 3 59 | 1 29 | 19 57 | 0 49 | 17 41 | 0 31 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 10 | 9 14 | 3 3 | 3 28 | 7 42 | 9 26 | 0 39 |
| T 8 | 7 16 | 15 27 | 2 25 | 5 16 | 1 3 | 3 31 | 1 30 | 19 59 | 0 47 | 17 38 | 0 32 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 10 | 9 14 | 3 2 | 3 29 | 7 46 | 9 24 | 0 39 |
| W 9 | 7 38 | 10 12 | 1 23 | 6 12 | 0 55 | 3 2 | 1 30 | 20 1 | 0 45 | 17 36 | 0 32 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 10 | 9 14 | 3 2 | 3 31 | 7 49 | 9 22 | 0 38 |
| T 10 | 8 1 | 4 39 | 0 19 | 7 8 | 0 45 | 2 33 | 1 31 | 20 3 | 0 44 | 17 34 | 0 32 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 11 | 9 14 | 3 1 | 3 32 | 7 52 | 9 20 | 0 38 |
| F 11 | 8 23 | 1s 2 | 0s46 | 8 4 | 0 36 | 2 5 | 1 32 | 20 5 | 0 42 | 17 31 | 0 32 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 11 | 9 14 | 3 1 | 3 33 | 7 56 | 9 17 | 0 38 |
| S 12 | 8 45 | 6 40 | 1 49 | 9 0 | 0 26 | 1 36 | 1 32 | 20 7 | 0 40 | 17 29 | 0 32 | 19 48 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 11 | 9 13 | 3 2 | 3 34 | 7 59 | 9 15 | 0 37 |
| S 13 | 9 6 | 12 4 | 2 47 | 9 56 | 0 15 | 1 7 | 1 33 | 20 8 | 0 38 | 17 26 | 0 33 | 19 47 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 11 | 9 13 | 3 3 | 3 36 | 8 2 | 9 13 | 0 37 |
| M14 | 9 28 | 17 4 | 3 37 | 10 52 | 0 5 | 0 38 | 1 33 | 20 10 | 0 36 | 17 24 | 0 33 | 19 47 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 12 | 9 13 | 3 5 | 3 37 | 8 6 | 9 11 | 0 36 |
| T 15 | 9 49 | 21 26 | 4 19 | 11 47 | 0n 6 | 0 9 | 1 33 | 20 11 | 0 34 | 17 22 | 0 33 | 19 47 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 12 | 9 13 | 3 7 | 3 38 | 8 9 | 9 9 | 0 36 |
| W16 | 10 11 | 24 58 | 4 49 | 12 41 | 0 17 | 0n20 | 1 34 | 20 13 | 0 32 | 17 20 | 0 33 | 19 47 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 12 | 9 13 | 3 10 | 3 39 | 8 12 | 9 7 | 0 36 |
| T 17 | 10 32 | 27 25 | 5 7 | 13 35 | 0 28 | 0 49 | 1 34 | 20 14 | 0 30 | 17 17 | 0 33 | 19 46 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 13 | 9 12 | 3 12 | 3 41 | 8 16 | 9 5 | 0 35 |
| F 18 | 10 53 | 28 34 | 5 11 | 14 27 | 0 38 | 1 18 | 1 34 | 20 15 | 0 28 | 17 15 | 0 34 | 19 46 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 13 | 9 12 | 3 14 | 3 42 | 8 19 | 9 3 | 0 35 |
| S 19 | 11 14 | 28 15 | 5 0 | 15 17 | 0 49 | 1 47 | 1 34 | 20 17 | 0 25 | 17 13 | 0 34 | 19 46 | 0 56 | 23 42 | 0 13 | 22 1 | 1 19 | 13 13 | 9 12 | 3 16 | 3 43 | 8 22 | 9 1 | 0 35 |
| S 20 | 11 34 | 26 26 | 4 33 | 16 6 | 1 0 | 2 16 | 1 34 | 20 18 | 0 23 | 17 11 | 0 34 | 19 45 | 0 56 | 23 42 | 0 13 | 22 0 | 1 19 | 13 14 | 9 12 | 3 16 | 3 44 | 8 26 | 8 58 | 0 34 |
| M21 | 11 55 | 23 8 | 3 52 | 16 54 | 1 10 | 2 45 | 1 34 | 20 19 | 0 21 | 17 9 | 0 34 | 19 45 | 0 56 | 23 42 | 0 13 | 22 0 | 1 19 | 13 14 | 9 12 | 3 17 | 3 46 | 8 29 | 8 56 | 0 34 |
| T 22 | 12 15 | 18 31 | 2 57 | 17 39 | 1 20 | 3 14 | 1 34 | 20 19 | 0 19 | 17 7 | 0 34 | 19 45 | 0 56 | 23 42 | 0 13 | 22 0 | 1 19 | 13 14 | 9 12 | 3 16 | 3 47 | 8 32 | 8 54 | 0 33 |
| W23 | 12 35 | 12 47 | 1 50 | 18 22 | 1 30 | 3 43 | 1 33 | 20 20 | 0 16 | 17 5 | 0 35 | 19 44 | 0 56 | 23 42 | 0 13 | 22 0 | 1 19 | 13 15 | 9 11 | 3 16 | 3 48 | 8 35 | 8 52 | 0 33 |
| T 24 | 12 55 | 6 14 | 0 34 | 19 3 | 1 39 | 4 11 | 1 33 | 20 21 | 0 14 | 17 3 | 0 35 | 19 44 | 0 56 | 23 42 | 0 13 | 22 0 | 1 19 | 13 15 | 9 11 | 3 15 | 3 49 | 8 39 | 8 50 | 0 33 |
| F 25 | 13 14 | 0n48 | 0n46 | 19 41 | 1 47 | 4 40 | 1 33 | 20 21 | 0 11 | 17 1 | 0 35 | 19 43 | 0 56 | 23 42 | 0 13 | 22 0 | 1 19 | 13 15 | 9 11 | 3 15 | 3 51 | 8 42 | 8 48 | 0 32 |
| S 26 | 13 34 | 7 55 | 2 4 | 20 17 | 1 55 | 5 9 | 1 32 | 20 21 | 0 9 | 16 59 | 0 35 | 19 43 | 0 56 | 23 42 | 0 13 | 22 0 | 1 19 | 13 15 | 9 11 | 3 16 | 3 52 | 8 45 | 8 46 | 0 32 |
| S 27 | 13 53 | 14 39 | 3 13 | 20 51 | 2 2 | 5 37 | 1 32 | 20 22 | 0 6 | 16 57 | 0 35 | 19 42 | 0 56 | 23 42 | 0 13 | 22 0 | 1 20 | 13 16 | 9 11 | 3 18 | 3 53 | 8 49 | 8 44 | 0 31 |
| M28 | 14 12 | 20 31 | 4 10 | 21 22 | 2 9 | 6 6 | 1 31 | 20 22 | 0 3 | 16 55 | 0 36 | 19 42 | 0 56 | 23 42 | 0 13 | 22 0 | 1 20 | 13 16 | 9 11 | 3 20 | 3 54 | 8 52 | 8 42 | 0 31 |
| T 29 | 14 31 | 25 0 | 4 48 | 21 51 | 2 15 | 6 34 | 1 30 | 20 22 | 0 1 | 16 54 | 0 36 | 19 41 | 0 56 | 23 42 | 0 13 | 22 0 | 1 20 | 13 16 | 9 10 | 3 23 | 3 56 | 8 55 | 8 40 | 0 31 |
| W30 | 14n49 | 27n44 | 5n 6 | 22n17 | 2n20 | 7n 2 | 1s30 | 20s22 | 0s 2 | 16s52 | 0s36 | 19n40 | 0n56 | 23s42 | 0s13 | 22s 0 | 1n20 | 13n17 | 9s10 | 3s26 | 3s57 | 8s59 | 8s38 | 0s30 |

Julian Day Number = 2324896.5, Delta T = 41.05 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'01, Lahiri = 19°01'02Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## MAY 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 37 6 | 10♉53'44 | 29♊27 | 0♊39 | 22♈48 | 0°R25 | 15♒22 | 6♌12 | 0°R31 | 23°R22 | 12♊48 | 21°R15 | 20♓ 0 | 17♎23 | 20°R49 | T 1 |
| F 2 | 14 41 3 | 11°51'47 | 13♋13 | 2° 5 | 24° 1 | 0♐10 | 15°28 | 6°14 | 0♑30 | 23♐21 | 12°50 | 21♓10 | 19°57 | 17°30 | 20♎45 | F 2 |
| S 3 | 14 44 59 | 12°49'49 | 26°30 | 3°27 | 25°14 | 29♏55 | 15°34 | 6°17 | 0°28 | 23°19 | 12°51 | 21° 7 | 19°53 | 17°37 | 20°41 | S 3 |
| S 4 | 14 48 56 | 13°47'48 | 9♌20 | 4°46 | 26°28 | 29°39 | 15°40 | 6°20 | 0°27 | 23°18 | 12°52 | 21°D 5 | 19°50 | 17°43 | 20°36 | S 4 |
| M 5 | 14 52 52 | 14°45'46 | 21°48 | 6° 0 | 27°41 | 29°22 | 15°45 | 6°23 | 0°25 | 23°17 | 12°53 | 21° 6 | 19°47 | 17°50 | 20°32 | M 5 |
| T 6 | 14 56 49 | 15°43'41 | 3♍58 | 7°10 | 28°55 | 29° 5 | 15°51 | 6°26 | 0°24 | 23°16 | 12°54 | 21° 6 | 19°44 | 17°57 | 20°28 | T 6 |
| W 7 | 15 0 45 | 16°41'35 | 15°56 | 8°16 | 0♉ 8 | 28°47 | 15°56 | 6°29 | 0°22 | 23°15 | 12°56 | 21°R 7 | 19°41 | 18° 3 | 20°25 | W 7 |
| T 8 | 15 4 42 | 17°39'27 | 27°46 | 9°17 | 1°22 | 28°29 | 16° 1 | 6°32 | 0°21 | 23°14 | 12°57 | 21° 7 | 19°38 | 18°10 | 20°21 | T 8 |
| F 9 | 15 8 38 | 18°37'18 | 9♎34 | 10°14 | 2°35 | 28°11 | 16° 6 | 6°36 | 0°19 | 23°12 | 12°58 | 21° 5 | 19°34 | 18°17 | 20°17 | F 9 |
| S 10 | 15 12 35 | 19°35'06 | 21°22 | 11° 7 | 3°49 | 27°52 | 16°11 | 6°39 | 0°18 | 23°11 | 13° 0 | 21° 1 | 19°31 | 18°23 | 20°13 | S 10 |
| S 11 | 15 16 32 | 20°32'53 | 3♏14 | 11°55 | 5° 2 | 27°32 | 16°16 | 6°43 | 0°16 | 23°10 | 13° 1 | 20°55 | 19°28 | 18°30 | 20°10 | S 11 |
| M12 | 15 20 28 | 21°30'39 | 15°12 | 12°39 | 6°15 | 27°13 | 16°20 | 6°46 | 0°14 | 23° 8 | 13° 2 | 20°46 | 19°25 | 18°37 | 20° 6 | M12 |
| T 13 | 15 24 25 | 22°28'23 | 27°18 | 13°17 | 7°29 | 26°52 | 16°25 | 6°50 | 0°13 | 23° 7 | 13° 3 | 20°35 | 19°22 | 18°43 | 20° 3 | T 13 |
| W14 | 15 28 21 | 23°26'06 | 9♐34 | 13°52 | 8°42 | 26°32 | 16°29 | 6°54 | 0°11 | 23° 6 | 13° 5 | 20°24 | 19°18 | 18°50 | 19°59 | W14 |
| T 15 | 15 32 18 | 24°23'48 | 21°59 | 14°21 | 9°56 | 26°12 | 16°33 | 6°58 | 0° 9 | 23° 4 | 13° 6 | 20°13 | 19°15 | 18°57 | 19°56 | T 15 |
| F 16 | 15 36 14 | 25°21'28 | 4♑35 | 14°46 | 11° 9 | 25°51 | 16°37 | 7° 2 | 0° 7 | 23° 3 | 13° 7 | 20° 3 | 19°12 | 19° 3 | 19°53 | F 16 |
| S 17 | 15 40 11 | 26°19'08 | 17°23 | 15° 6 | 12°23 | 25°30 | 16°41 | 7° 6 | 0° 5 | 23° 2 | 13° 9 | 19°55 | 19° 9 | 19°10 | 19°50 | S 17 |
| S 18 | 15 44 7 | 27°16'46 | 0♒24 | 15°21 | 13°36 | 25° 9 | 16°44 | 7°10 | 0° 4 | 23° 0 | 13°10 | 19°49 | 19° 6 | 19°17 | 19°47 | S 18 |
| M19 | 15 48 4 | 28°14'23 | 13°40 | 15°32 | 14°50 | 24°48 | 16°47 | 7°14 | 0° 2 | 22°59 | 13°11 | 19°47 | 19° 3 | 19°23 | 19°44 | M19 |
| T 20 | 15 52 1 | 29°11'59 | 27°11 | 15°38 | 16° 3 | 24°27 | 16°50 | 7°18 | 29♐59 | 22°57 | 13°13 | 19°D46 | 18°59 | 19°30 | 19°41 | T 20 |
| W21 | 15 55 57 | 0♊ 9'34 | 11♓ 1 | 15°R39 | 17°16 | 24° 6 | 16°53 | 7°23 | 29°58 | 22°56 | 13°14 | 19°46 | 18°56 | 19°37 | 19°38 | W21 |
| T 22 | 15 59 54 | 1° 7'09 | 25° 9 | 15°35 | 18°30 | 23°45 | 16°56 | 7°27 | 29°56 | 22°55 | 13°16 | 19°R46 | 18°53 | 19°43 | 19°35 | T 22 |
| F 23 | 16 3 50 | 2° 4'42 | 9♈35 | 15°27 | 19°43 | 23°24 | 16°59 | 7°32 | 29°54 | 22°53 | 13°17 | 19°45 | 18°50 | 19°50 | 19°33 | F 23 |
| S 24 | 16 7 47 | 3° 2'15 | 24°17 | 15°15 | 20°57 | 23° 3 | 17° 1 | 7°36 | 29°52 | 22°52 | 13°18 | 19°41 | 18°47 | 19°57 | 19°30 | S 24 |
| S 25 | 16 11 43 | 3°59'46 | 9♉ 9 | 14°59 | 22°10 | 22°43 | 17° 3 | 7°41 | 29°50 | 22°50 | 13°20 | 19°35 | 18°44 | 20° 3 | 19°28 | S 25 |
| M26 | 16 15 40 | 4°57'17 | 24° 4 | 14°39 | 23°24 | 22°23 | 17° 5 | 7°46 | 29°47 | 22°49 | 13°21 | 19°26 | 18°40 | 20°10 | 19°25 | M26 |
| T 27 | 16 19 36 | 5°54'47 | 8♊53 | 14°16 | 24°37 | 22° 3 | 17° 7 | 7°50 | 29°45 | 22°47 | 13°22 | 19°16 | 18°37 | 20°17 | 19°23 | T 27 |
| W28 | 16 23 33 | 6°52'16 | 23°27 | 13°49 | 25°51 | 21°44 | 17° 9 | 7°55 | 29°43 | 22°46 | 13°24 | 19° 5 | 18°34 | 20°23 | 19°21 | W28 |
| T 29 | 16 27 30 | 7°49'44 | 7♋40 | 13°21 | 27° 4 | 21°24 | 17°10 | 8° 0 | 29°41 | 22°44 | 13°25 | 18°54 | 18°31 | 20°30 | 19°19 | T 29 |
| F 30 | 16 31 26 | 8°47'11 | 21°27 | 12°50 | 28°18 | 21° 6 | 17°11 | 8° 6 | 29°39 | 22°42 | 13°27 | 18°46 | 18°28 | 20°37 | 19°17 | F 30 |
| S 31 | 16 35 23 | 9♊44'36 | 4♌46 | 12♊18 | 29♉31 | 20♏48 | 17♒12 | 8♌11 | 29♐36 | 22♐41 | 13♊28 | 18♓40 | 18♓24 | 20♎43 | 19♎15 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n 7 | 28n34 | 5n 5 | 22n40 | 2n24 | 7n30 | 1s29 | 20s21 | 0s 5 | 16s50 | 0s36 | 19n40 | 0n56 | 23s42 | 0s13 | 22s 0 | 1n20 | 13n17 | 9s10 | 3s28 | 3s58 | 9s 2 | 8s36 | 0s30 |
| F 2 | 15 25 | 27 34 | 4 46 | 23 2 | 2 27 | 7 58 | 1 28 | 20 21 | 0 8 | 16 49 | 0 36 | 19 39 | 0 56 | 23 42 | 0 13 | 22 0 | 1 20 | 13 17 | 9 10 | 3 30 | 3 59 | 9 5 | 8 34 | 0 29 |
| S 3 | 15 43 | 25 0 | 4 11 | 23 20 | 2 30 | 8 26 | 1 27 | 20 21 | 0 10 | 16 47 | 0 37 | 19 38 | 0 56 | 23 42 | 0 13 | 22 0 | 1 20 | 13 17 | 9 10 | 3 32 | 4 1 | 9 8 | 8 32 | 0 29 |
| S 4 | 16 1 | 21 15 | 3 26 | 23 37 | 2 31 | 8 53 | 1 26 | 20 20 | 0 13 | 16 46 | 0 37 | 19 38 | 0 56 | 23 42 | 0 13 | 21 59 | 1 20 | 13 18 | 9 10 | 3 32 | 4 2 | 9 12 | 8 30 | 0 29 |
| M 5 | 16 18 | 16 39 | 2 31 | 23 51 | 2 32 | 9 21 | 1 25 | 20 19 | 0 16 | 16 44 | 0 37 | 19 37 | 0 56 | 23 42 | 0 13 | 21 59 | 1 20 | 13 18 | 9 10 | 3 32 | 4 3 | 9 15 | 8 28 | 0 28 |
| T 6 | 16 35 | 11 29 | 1 31 | 24 3 | 2 32 | 9 48 | 1 24 | 20 18 | 0 19 | 16 43 | 0 37 | 19 36 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 18 | 9 9 | 3 32 | 4 4 | 9 18 | 8 27 | 0 28 |
| W 7 | 16 52 | 5 59 | 0 28 | 24 12 | 2 30 | 10 15 | 1 23 | 20 17 | 0 22 | 16 41 | 0 38 | 19 35 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 19 | 9 9 | 3 32 | 4 6 | 9 22 | 8 25 | 0 27 |
| T 8 | 17 8 | 0 20 | 0s36 | 24 20 | 2 28 | 10 41 | 1 22 | 20 16 | 0 25 | 16 40 | 0 38 | 19 34 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 19 | 9 9 | 3 32 | 4 7 | 9 25 | 8 23 | 0 27 |
| F 9 | 17 24 | 5s17 | 1 37 | 24 25 | 2 25 | 11 8 | 1 21 | 20 15 | 0 28 | 16 39 | 0 38 | 19 34 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 19 | 9 9 | 3 32 | 4 8 | 9 28 | 8 21 | 0 27 |
| S 10 | 17 40 | 10 44 | 2 35 | 24 29 | 2 21 | 11 34 | 1 19 | 20 14 | 0 31 | 16 37 | 0 38 | 19 33 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 19 | 9 9 | 3 34 | 4 9 | 9 31 | 8 19 | 0 26 |
| S 11 | 17 55 | 15 50 | 3 25 | 24 30 | 2 16 | 12 0 | 1 18 | 20 13 | 0 34 | 16 36 | 0 38 | 19 32 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 20 | 9 9 | 3 37 | 4 11 | 9 35 | 8 18 | 0 26 |
| M12 | 18 11 | 20 22 | 4 7 | 24 30 | 2 10 | 12 26 | 1 17 | 20 11 | 0 38 | 16 35 | 0 39 | 19 31 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 20 | 9 9 | 3 40 | 4 12 | 9 38 | 8 16 | 0 25 |
| T 13 | 18 26 | 24 7 | 4 39 | 24 28 | 2 2 | 12 51 | 1 15 | 20 9 | 0 41 | 16 34 | 0 39 | 19 30 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 20 | 9 9 | 3 44 | 4 13 | 9 41 | 8 14 | 0 25 |
| W14 | 18 40 | 26 50 | 4 58 | 24 24 | 1 54 | 13 16 | 1 14 | 20 8 | 0 44 | 16 33 | 0 39 | 19 29 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 20 | 9 8 | 3 49 | 4 14 | 9 44 | 8 13 | 0 25 |
| T 15 | 18 54 | 28 17 | 5 3 | 24 18 | 1 45 | 13 41 | 1 12 | 20 6 | 0 47 | 16 32 | 0 39 | 19 28 | 0 56 | 23 43 | 0 13 | 21 59 | 1 20 | 13 21 | 9 8 | 3 53 | 4 16 | 9 48 | 8 11 | 0 24 |
| F 16 | 19 8 | 28 18 | 4 53 | 24 11 | 1 35 | 14 5 | 1 10 | 20 4 | 0 50 | 16 31 | 0 40 | 19 27 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 21 | 9 8 | 3 57 | 4 17 | 9 51 | 8 9 | 0 24 |
| S 17 | 19 22 | 26 48 | 4 29 | 24 3 | 1 24 | 14 29 | 1 9 | 20 2 | 0 53 | 16 30 | 0 40 | 19 26 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 21 | 9 8 | 4 0 | 4 18 | 9 54 | 8 8 | 0 23 |
| S 18 | 19 35 | 23 52 | 3 51 | 23 52 | 1 12 | 14 53 | 1 7 | 20 0 | 0 56 | 16 29 | 0 40 | 19 25 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 22 | 9 8 | 4 2 | 4 19 | 9 57 | 8 6 | 0 23 |
| M19 | 19 48 | 19 37 | 2 59 | 23 41 | 0 59 | 15 17 | 1 5 | 19 58 | 0 59 | 16 29 | 0 40 | 19 24 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 22 | 9 8 | 4 3 | 4 21 | 10 1 | 8 5 | 0 23 |
| T 20 | 20 1 | 14 18 | 1 57 | 23 28 | 0 45 | 15 40 | 1 3 | 19 56 | 1 2 | 16 28 | 0 41 | 19 23 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 22 | 9 8 | 4 4 | 4 22 | 10 4 | 8 3 | 0 22 |
| W21 | 20 13 | 8 10 | 0 46 | 23 13 | 0 31 | 16 2 | 1 2 | 19 53 | 1 5 | 16 27 | 0 41 | 19 22 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 22 | 9 8 | 4 4 | 4 23 | 10 7 | 8 2 | 0 22 |
| T 22 | 20 25 | 1 30 | 0n29 | 22 58 | 0 15 | 16 25 | 1 0 | 19 51 | 1 8 | 16 27 | 0 41 | 19 20 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 22 | 9 8 | 4 4 | 4 24 | 10 10 | 8 1 | 0 21 |
| F 23 | 20 37 | 5n23 | 1 43 | 22 41 | 0s 0 | 16 46 | 0 58 | 19 49 | 1 11 | 16 26 | 0 41 | 19 19 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 23 | 9 8 | 4 4 | 4 26 | 10 14 | 7 59 | 0 21 |
| S 24 | 20 48 | 12 6 | 2 52 | 22 23 | 0 17 | 17 8 | 0 56 | 19 46 | 1 14 | 16 26 | 0 42 | 19 18 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 23 | 9 7 | 4 6 | 4 27 | 10 17 | 7 58 | 0 21 |
| S 25 | 20 59 | 18 12 | 3 50 | 22 5 | 0 34 | 17 29 | 0 54 | 19 44 | 1 17 | 16 25 | 0 42 | 19 17 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 23 | 9 7 | 4 8 | 4 28 | 10 20 | 7 57 | 0 20 |
| M26 | 21 10 | 23 13 | 4 33 | 21 45 | 0 51 | 17 49 | 0 52 | 19 42 | 1 20 | 16 25 | 0 42 | 19 16 | 0 56 | 23 43 | 0 14 | 21 58 | 1 20 | 13 23 | 9 7 | 4 11 | 4 29 | 10 23 | 7 55 | 0 20 |
| T 27 | 21 20 | 26 42 | 4 56 | 21 26 | 1 8 | 18 9 | 0 50 | 19 39 | 1 23 | 16 24 | 0 42 | 19 14 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 24 | 9 7 | 4 15 | 4 31 | 10 27 | 7 54 | 0 20 |
| W28 | 21 30 | 28 19 | 5 0 | 21 5 | 1 26 | 18 29 | 0 48 | 19 37 | 1 26 | 16 24 | 0 43 | 19 13 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 24 | 9 7 | 4 20 | 4 32 | 10 30 | 7 53 | 0 19 |
| T 29 | 21 39 | 28 1 | 4 46 | 20 45 | 1 43 | 18 48 | 0 46 | 19 35 | 1 29 | 16 24 | 0 43 | 19 12 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 24 | 9 7 | 4 24 | 4 33 | 10 33 | 7 52 | 0 19 |
| F 30 | 21 49 | 25 57 | 4 14 | 20 24 | 2 0 | 19 7 | 0 43 | 19 33 | 1 32 | 16 24 | 0 43 | 19 10 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 24 | 9 7 | 4 27 | 4 34 | 10 36 | 7 51 | 0 18 |
| S 31 | 21n57 | 22n30 | 3n30 | 20n 3 | 2s17 | 19n25 | 0s41 | 19s30 | 1s34 | 16s24 | 0s43 | 19n 9 | 0n56 | 23s43 | 0s14 | 21s57 | 1n20 | 13n25 | 9s 7 | 4s30 | 4s36 | 10s39 | 7s50 | 0s18 |

Julian Day Number = 2324926.5, Delta T = 40.99 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'05, Lahiri = 19°01'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## JUNE 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 39 19 | 10♊42'01 | 17♌39 | 11°R45 | 0♊45 | 20°R30 | 17♒13 | 8♌16 | 29°R34 | 22°R39 | 13♊29 | 18°R36 | 18♓21 | 20♎50 | 19°R13 | S 1 |
| M 2 | 16 43 16 | 11°39'24 | 0♍ 9 | 11♊11 | 1°58 | 20♏13 | 17°14 | 8°21 | 29♐32 | 22♐38 | 13°31 | 18♓34 | 18°18 | 20°57 | 19♎12 | M 2 |
| T 3 | 16 47 12 | 12°36'46 | 12°21 | 10°38 | 3°12 | 19°56 | 17°14 | 8°27 | 29°30 | 22°36 | 13°32 | 18°34 | 18°15 | 21° 3 | 19°10 | T 3 |
| W 4 | 16 51 9 | 13°34'07 | 24°19 | 10° 5 | 4°25 | 19°41 | 17°15 | 8°32 | 29°27 | 22°35 | 13°34 | 18°34 | 18°12 | 21°10 | 19° 9 | W 4 |
| T 5 | 16 55 5 | 14°31'26 | 6♎10 | 9°34 | 5°39 | 19°25 | 17°R15 | 8°37 | 29°25 | 22°33 | 13°35 | 18°33 | 18° 9 | 21°17 | 19° 7 | T 5 |
| F 6 | 16 59 2 | 15°28'45 | 17°58 | 9° 4 | 6°52 | 19°11 | 17°15 | 8°43 | 29°23 | 22°31 | 13°36 | 18°30 | 18° 5 | 21°23 | 19° 6 | F 6 |
| S 7 | 17 2 59 | 16°26'03 | 29°49 | 8°37 | 8° 6 | 18°57 | 17°14 | 8°49 | 29°20 | 22°30 | 13°38 | 18°25 | 18° 2 | 21°30 | 19° 5 | S 7 |
| S 8 | 17 6 55 | 17°23'20 | 11♏45 | 8°13 | 9°19 | 18°44 | 17°14 | 8°54 | 29°18 | 22°28 | 13°39 | 18°18 | 17°59 | 21°37 | 19° 4 | S 8 |
| M 9 | 17 10 52 | 18°20'37 | 23°51 | 7°52 | 10°33 | 18°31 | 17°13 | 9° 0 | 29°16 | 22°27 | 13°41 | 18° 7 | 17°56 | 21°43 | 19° 3 | M 9 |
| T 10 | 17 14 48 | 19°17'52 | 6♐ 8 | 7°35 | 11°47 | 18°20 | 17°12 | 9° 6 | 29°13 | 22°25 | 13°42 | 17°55 | 17°53 | 21°50 | 19° 3 | T 10 |
| W11 | 17 18 45 | 20°15'08 | 18°38 | 7°21 | 13° 0 | 18° 9 | 17°11 | 9°12 | 29°11 | 22°23 | 13°43 | 17°42 | 17°50 | 21°57 | 19° 2 | W11 |
| T 12 | 17 22 41 | 21°12'22 | 1♑20 | 7°11 | 14°14 | 17°59 | 17°10 | 9°18 | 29° 8 | 22°22 | 13°45 | 17°29 | 17°46 | 22° 3 | 19° 1 | T 12 |
| F 13 | 17 26 38 | 22° 9'36 | 14°14 | 7° 6 | 15°27 | 17°49 | 17° 9 | 9°24 | 29° 6 | 22°20 | 13°46 | 17°18 | 17°43 | 22°10 | 19° 1 | F 13 |
| S 14 | 17 30 35 | 23° 6'50 | 27°21 | 7°D 5 | 16°41 | 17°41 | 17° 7 | 9°30 | 29° 4 | 22°18 | 13°47 | 17° 9 | 17°40 | 22°17 | 19° 1 | S 14 |
| S 15 | 17 34 31 | 24° 4'03 | 10♒38 | 7° 9 | 17°54 | 17°33 | 17° 5 | 9°36 | 29° 1 | 22°17 | 13°49 | 17° 2 | 17°37 | 22°23 | 19° 0 | S 15 |
| M16 | 17 38 28 | 25° 1'16 | 24° 7 | 7°18 | 19° 8 | 17°26 | 17° 3 | 9°42 | 28°59 | 22°15 | 13°50 | 16°58 | 17°34 | 22°30 | 19° 0 | M16 |
| T 17 | 17 42 24 | 25°58'29 | 7♓46 | 7°31 | 20°22 | 17°20 | 17° 1 | 9°48 | 28°56 | 22°14 | 13°52 | 16°57 | 17°30 | 22°37 | 19°D 0 | T 17 |
| W18 | 17 46 21 | 26°55'41 | 21°37 | 7°49 | 21°35 | 17°15 | 16°59 | 9°55 | 28°54 | 22°12 | 13°53 | 16°57 | 17°27 | 22°43 | 19° 0 | W18 |
| T 19 | 17 50 17 | 27°52'54 | 5♈39 | 8°12 | 22°49 | 17°10 | 16°56 | 10° 1 | 28°52 | 22°10 | 13°54 | 16°57 | 17°24 | 22°50 | 19° 0 | T 19 |
| F 20 | 17 54 14 | 28°50'07 | 19°53 | 8°39 | 24° 2 | 17° 7 | 16°54 | 10° 7 | 28°49 | 22° 9 | 13°56 | 16°56 | 17°21 | 22°57 | 19° 1 | F 20 |
| S 21 | 17 58 10 | 29°47'19 | 4♉16 | 9°11 | 25°16 | 17° 4 | 16°51 | 10°14 | 28°47 | 22° 7 | 13°57 | 16°52 | 17°18 | 23° 3 | 19° 1 | S 21 |
| S 22 | 18 2 7 | 0♋44'32 | 18°45 | 9°47 | 26°30 | 17° 2 | 16°47 | 10°20 | 28°44 | 22° 6 | 13°58 | 16°46 | 17°15 | 23°10 | 19° 2 | S 22 |
| M23 | 18 6 4 | 1°41'45 | 3♊16 | 10°28 | 27°43 | 17° 1 | 16°44 | 10°27 | 28°42 | 22° 4 | 14° 0 | 16°38 | 17°11 | 23°17 | 19° 2 | M23 |
| T 24 | 18 10 0 | 2°38'58 | 17°43 | 11°14 | 28°57 | 17°D 1 | 16°41 | 10°34 | 28°39 | 22° 2 | 14° 1 | 16°27 | 17° 8 | 23°23 | 19° 3 | T 24 |
| W25 | 18 13 57 | 3°36'11 | 1♋58 | 12° 4 | 0♋11 | 17° 1 | 16°37 | 10°40 | 28°37 | 22° 1 | 14° 2 | 16°16 | 17° 5 | 23°30 | 19° 4 | W25 |
| T 26 | 18 17 53 | 4°33'23 | 15°57 | 12°58 | 1°24 | 17° 3 | 16°33 | 10°47 | 28°35 | 21°59 | 14° 4 | 16° 6 | 17° 2 | 23°37 | 19° 5 | T 26 |
| F 27 | 18 21 50 | 5°30'36 | 29°34 | 13°57 | 2°38 | 17° 5 | 16°29 | 10°54 | 28°32 | 21°58 | 14° 5 | 15°57 | 16°59 | 23°43 | 19° 6 | F 27 |
| S 28 | 18 25 46 | 6°27'48 | 12♌48 | 14°59 | 3°52 | 17° 8 | 16°25 | 11° 0 | 28°30 | 21°56 | 14° 6 | 15°51 | 16°56 | 23°50 | 19° 7 | S 28 |
| S 29 | 18 29 43 | 7°25'00 | 25°39 | 16° 6 | 5° 6 | 17°12 | 16°21 | 11° 7 | 28°27 | 21°55 | 14° 8 | 15°47 | 16°52 | 23°57 | 19° 9 | S 29 |
| M30 | 18 33 39 | 8♋22'12 | 8♍ 9 | 17♊18 | 6♋19 | 17♏16 | 16♒16 | 11♌14 | 28♐25 | 21♐53 | 14♊ 9 | 15♓45 | 16♓49 | 24♎ 3 | 19♎10 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 6 | 18n 3 | 2n36 | 19n43 | 2s33 | 19n43 | 0s39 | 19s28 | 1s37 | 16s24 | 0s44 | 19n 8 | 0n56 | 23s43 | 0s14 | 21s57 | 1n20 | 13n25 | 9s 7 | 4s31 | 4s37 | 10s43 | 7s49 | 0s18 |
| M 2 | 22 14 | 12 56 | 1 36 | 19 24 | 2 48 | 20 0 | 0 37 | 19 26 | 1 40 | 16 24 | 0 44 | 19 6 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 25 | 9 7 | 4 32 | 4 38 | 10 46 | 7 48 | 0 17 |
| T 3 | 22 21 | 7 27 | 0 33 | 19 5 | 3 2 | 20 16 | 0 35 | 19 24 | 1 42 | 16 24 | 0 44 | 19 5 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 25 | 9 7 | 4 32 | 4 39 | 10 49 | 7 47 | 0 17 |
| W 4 | 22 28 | 1 48 | 0s30 | 18 47 | 3 16 | 20 32 | 0 32 | 19 22 | 1 45 | 16 24 | 0 44 | 19 4 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 25 | 9 7 | 4 32 | 4 41 | 10 52 | 7 46 | 0 16 |
| T 5 | 22 35 | 3s52 | 1 32 | 18 30 | 3 28 | 20 48 | 0 30 | 19 20 | 1 47 | 16 24 | 0 45 | 19 2 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 26 | 9 7 | 4 32 | 4 42 | 10 56 | 7 45 | 0 16 |
| F 6 | 22 42 | 9 21 | 2 29 | 18 15 | 3 39 | 21 3 | 0 28 | 19 19 | 1 50 | 16 25 | 0 45 | 19 1 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 26 | 9 7 | 4 33 | 4 43 | 10 59 | 7 44 | 0 16 |
| S 7 | 22 48 | 14 32 | 3 20 | 18 1 | 3 49 | 21 17 | 0 25 | 19 17 | 1 52 | 16 25 | 0 45 | 18 59 | 0 56 | 23 43 | 0 14 | 21 57 | 1 20 | 13 26 | 9 7 | 4 35 | 4 44 | 11 2 | 7 43 | 0 15 |
| S 8 | 22 53 | 19 13 | 4 2 | 17 49 | 3 58 | 21 31 | 0 23 | 19 16 | 1 54 | 16 25 | 0 45 | 18 58 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 26 | 9 7 | 4 38 | 4 46 | 11 5 | 7 43 | 0 15 |
| M 9 | 22 58 | 23 11 | 4 34 | 17 38 | 4 5 | 21 44 | 0 21 | 19 14 | 1 57 | 16 26 | 0 46 | 18 56 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 26 | 9 7 | 4 42 | 4 47 | 11 8 | 7 42 | 0 15 |
| T 10 | 23 3 | 26 12 | 4 54 | 17 30 | 4 11 | 21 56 | 0 18 | 19 13 | 1 59 | 16 26 | 0 46 | 18 55 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 27 | 9 7 | 4 47 | 4 48 | 11 12 | 7 41 | 0 14 |
| W11 | 23 8 | 27 59 | 5 0 | 17 23 | 4 15 | 22 8 | 0 16 | 19 12 | 2 1 | 16 27 | 0 46 | 18 53 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 27 | 9 7 | 4 52 | 4 49 | 11 15 | 7 41 | 0 14 |
| T 12 | 23 12 | 28 20 | 4 51 | 17 18 | 4 18 | 22 20 | 0 14 | 19 11 | 2 3 | 16 27 | 0 46 | 18 52 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 27 | 9 7 | 4 57 | 4 51 | 11 18 | 7 40 | 0 13 |
| F 13 | 23 15 | 27 10 | 4 28 | 17 16 | 4 20 | 22 30 | 0 11 | 19 11 | 2 5 | 16 28 | 0 47 | 18 50 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 27 | 9 7 | 5 2 | 4 52 | 11 21 | 7 40 | 0 13 |
| S 14 | 23 18 | 24 29 | 3 50 | 17 15 | 4 21 | 22 40 | 0 9 | 19 10 | 2 7 | 16 29 | 0 47 | 18 48 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 27 | 9 7 | 5 5 | 4 53 | 11 24 | 7 39 | 0 13 |
| S 15 | 23 21 | 20 29 | 2 59 | 17 16 | 4 20 | 22 50 | 0 6 | 19 10 | 2 9 | 16 30 | 0 47 | 18 47 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 27 | 9 7 | 5 8 | 4 54 | 11 27 | 7 39 | 0 12 |
| M16 | 23 24 | 15 22 | 1 58 | 17 19 | 4 19 | 22 58 | 0 4 | 19 9 | 2 11 | 16 30 | 0 47 | 18 45 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 28 | 9 7 | 5 9 | 4 55 | 11 31 | 7 38 | 0 12 |
| T 17 | 23 26 | 9 25 | 0 48 | 17 24 | 4 16 | 23 6 | 0 2 | 19 9 | 2 12 | 16 31 | 0 48 | 18 43 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 28 | 9 7 | 5 10 | 4 57 | 11 34 | 7 38 | 0 12 |
| W18 | 23 27 | 2 57 | 0n25 | 17 31 | 4 12 | 23 14 | 0n 1 | 19 9 | 2 14 | 16 32 | 0 48 | 18 42 | 0 56 | 23 43 | 0 14 | 21 56 | 1 20 | 13 28 | 9 7 | 5 10 | 4 58 | 11 37 | 7 38 | 0 11 |
| T 19 | 23 28 | 3n44 | 1 37 | 17 39 | 4 7 | 23 21 | 0 3 | 19 10 | 2 16 | 16 33 | 0 48 | 18 40 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 28 | 9 7 | 5 10 | 4 59 | 11 40 | 7 37 | 0 11 |
| F 20 | 23 29 | 10 20 | 2 45 | 17 49 | 4 1 | 23 27 | 0 5 | 19 10 | 2 17 | 16 34 | 0 48 | 18 38 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 28 | 9 7 | 5 10 | 5 0 | 11 43 | 7 37 | 0 10 |
| S 21 | 23 29 | 16 27 | 3 43 | 18 1 | 3 54 | 23 32 | 0 8 | 19 11 | 2 19 | 16 35 | 0 49 | 18 37 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 28 | 9 7 | 5 12 | 5 2 | 11 46 | 7 37 | 0 10 |
| S 22 | 23 29 | 21 42 | 4 27 | 18 13 | 3 47 | 23 37 | 0 10 | 19 12 | 2 20 | 16 37 | 0 49 | 18 35 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 28 | 9 7 | 5 14 | 5 3 | 11 50 | 7 37 | 0 10 |
| M23 | 23 29 | 25 39 | 4 53 | 18 27 | 3 38 | 23 41 | 0 13 | 19 13 | 2 22 | 16 38 | 0 49 | 18 33 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 29 | 9 7 | 5 17 | 5 4 | 11 53 | 7 37 | 0 9 |
| T 24 | 23 28 | 27 55 | 5 1 | 18 43 | 3 30 | 23 44 | 0 15 | 19 14 | 2 23 | 16 39 | 0 49 | 18 31 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 29 | 9 7 | 5 21 | 5 5 | 11 56 | 7 37 | 0 9 |
| W25 | 23 26 | 28 19 | 4 50 | 18 59 | 3 20 | 23 46 | 0 17 | 19 15 | 2 24 | 16 40 | 0 50 | 18 29 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 29 | 9 7 | 5 26 | 5 7 | 11 59 | 7 37 | 0 9 |
| T 26 | 23 24 | 26 52 | 4 22 | 19 16 | 3 10 | 23 48 | 0 20 | 19 17 | 2 26 | 16 42 | 0 50 | 18 28 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 29 | 9 7 | 5 30 | 5 8 | 12 2 | 7 37 | 0 8 |
| F 27 | 23 22 | 23 51 | 3 39 | 19 33 | 2 59 | 23 50 | 0 22 | 19 19 | 2 27 | 16 43 | 0 50 | 18 26 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 29 | 9 7 | 5 33 | 5 9 | 12 5 | 7 37 | 0 8 |
| S 28 | 23 20 | 19 39 | 2 46 | 19 52 | 2 48 | 23 50 | 0 24 | 19 21 | 2 28 | 16 45 | 0 50 | 18 24 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 29 | 9 7 | 5 36 | 5 10 | 12 9 | 7 37 | 0 8 |
| S 29 | 23 17 | 14 38 | 1 45 | 20 10 | 2 36 | 23 50 | 0 26 | 19 23 | 2 29 | 16 46 | 0 51 | 18 22 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 29 | 9 7 | 5 37 | 5 12 | 12 12 | 7 37 | 0 7 |
| M30 | 23n13 | 9n 9 | 0n40 | 20n29 | 2s24 | 23n49 | 0n29 | 19s25 | 2s30 | 16s48 | 0s51 | 18n20 | 0n56 | 23s43 | 0s14 | 21s55 | 1n20 | 13n29 | 9s 7 | 5s38 | 5s13 | 12s15 | 7s37 | 0s 7 |

Julian Day Number = 2324957.5, Delta T = 40.93 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'10, Lahiri = 19°01'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## JULY 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 37 36 | 9♋19'24 | 20♍21 | 18♊33 | 7♋33 | 17♏22 | 16°R12 | 11♌21 | 28°R23 | 21°R51 | 14♊10 | 15°D45 | 16♓46 | 24♎10 | 19♎12 | T 1 |
| W 2 | 18 41 33 | 10°16'35 | 2♎21 | 19°52 | 8°47 | 17°28 | 16♒ 7 | 11°28 | 28♐20 | 21♐50 | 14°12 | 15♓45 | 16°43 | 24°17 | 19°13 | W 2 |
| T 3 | 18 45 29 | 11°13'46 | 14°13 | 21°15 | 10° 1 | 17°35 | 16° 2 | 11°35 | 28°18 | 21°48 | 14°13 | 15°R45 | 16°40 | 24°23 | 19°15 | T 3 |
| F 4 | 18 49 26 | 12°10'57 | 26° 3 | 22°42 | 11°14 | 17°43 | 15°57 | 11°42 | 28°15 | 21°47 | 14°14 | 15°44 | 16°36 | 24°30 | 19°17 | F 4 |
| S 5 | 18 53 22 | 13° 8'09 | 7♏56 | 24°13 | 12°28 | 17°51 | 15°51 | 11°49 | 28°13 | 21°45 | 14°15 | 15°41 | 16°33 | 24°37 | 19°19 | S 5 |
| S 6 | 18 57 19 | 14° 5'20 | 19°56 | 25°48 | 13°42 | 18° 1 | 15°46 | 11°56 | 28°11 | 21°44 | 14°17 | 15°36 | 16°30 | 24°43 | 19°21 | S 6 |
| M 7 | 19 1 15 | 15° 2'31 | 2♐ 8 | 27°26 | 14°56 | 18°11 | 15°40 | 12° 3 | 28° 8 | 21°43 | 14°18 | 15°29 | 16°27 | 24°50 | 19°23 | M 7 |
| T 8 | 19 5 12 | 15°59'42 | 14°34 | 29° 8 | 16° 9 | 18°21 | 15°35 | 12°10 | 28° 6 | 21°41 | 14°19 | 15°20 | 16°24 | 24°57 | 19°26 | T 8 |
| W 9 | 19 9 8 | 16°56'54 | 27°16 | 0♋53 | 17°23 | 18°33 | 15°29 | 12°18 | 28° 4 | 21°40 | 14°20 | 15°10 | 16°21 | 25° 4 | 19°28 | W 9 |
| T 10 | 19 13 5 | 17°54'06 | 10♑15 | 2°42 | 18°37 | 18°45 | 15°23 | 12°25 | 28° 2 | 21°38 | 14°21 | 15° 0 | 16°17 | 25°10 | 19°31 | T 10 |
| F 11 | 19 17 2 | 18°51'18 | 23°30 | 4°33 | 19°51 | 18°58 | 15°17 | 12°32 | 27°59 | 21°37 | 14°23 | 14°51 | 16°14 | 25°17 | 19°33 | F 11 |
| S 12 | 19 20 58 | 19°48'30 | 6♒58 | 6°28 | 21° 5 | 19°11 | 15°10 | 12°39 | 27°57 | 21°35 | 14°24 | 14°44 | 16°11 | 25°24 | 19°36 | S 12 |
| S 13 | 19 24 55 | 20°45'43 | 20°39 | 8°25 | 22°19 | 19°25 | 15° 4 | 12°47 | 27°55 | 21°34 | 14°25 | 14°39 | 16° 8 | 25°30 | 19°39 | S 13 |
| M14 | 19 28 51 | 21°42'57 | 4♓29 | 10°24 | 23°32 | 19°40 | 14°58 | 12°54 | 27°53 | 21°33 | 14°26 | 14°37 | 16° 5 | 25°37 | 19°42 | M14 |
| T 15 | 19 32 48 | 22°40'11 | 18°27 | 12°25 | 24°46 | 19°55 | 14°51 | 13° 1 | 27°51 | 21°31 | 14°27 | 14°D37 | 16° 2 | 25°44 | 19°45 | T 15 |
| W16 | 19 36 44 | 23°37'26 | 2♈30 | 14°28 | 26° 0 | 20°11 | 14°44 | 13° 9 | 27°49 | 21°30 | 14°28 | 14°37 | 15°58 | 25°50 | 19°48 | W16 |
| T 17 | 19 40 41 | 24°34'42 | 16°38 | 16°33 | 27°14 | 20°28 | 14°37 | 13°16 | 27°47 | 21°29 | 14°29 | 14°38 | 15°55 | 25°57 | 19°51 | T 17 |
| F 18 | 19 44 37 | 25°31'58 | 0♉48 | 18°39 | 28°28 | 20°45 | 14°31 | 13°24 | 27°44 | 21°28 | 14°31 | 14°R39 | 15°52 | 26° 4 | 19°54 | F 18 |
| S 19 | 19 48 34 | 26°29'16 | 14°59 | 20°45 | 29°42 | 21° 2 | 14°24 | 13°31 | 27°42 | 21°26 | 14°32 | 14°37 | 15°49 | 26°10 | 19°58 | S 19 |
| S 20 | 19 52 31 | 27°26'35 | 29°10 | 22°52 | 0♌56 | 21°21 | 14°16 | 13°39 | 27°40 | 21°25 | 14°33 | 14°34 | 15°46 | 26°17 | 20° 1 | S 20 |
| M21 | 19 56 27 | 28°23'55 | 13♊17 | 24°59 | 2°10 | 21°40 | 14° 9 | 13°46 | 27°38 | 21°24 | 14°34 | 14°28 | 15°42 | 26°24 | 20° 5 | M21 |
| T 22 | 20 0 24 | 29°21'15 | 27°16 | 27° 6 | 3°24 | 21°59 | 14° 2 | 13°54 | 27°36 | 21°23 | 14°35 | 14°22 | 15°39 | 26°30 | 20° 9 | T 22 |
| W23 | 20 4 20 | 0♌18'37 | 11♋ 6 | 29°12 | 4°38 | 22°19 | 13°55 | 14° 1 | 27°35 | 21°21 | 14°36 | 14°15 | 15°36 | 26°37 | 20°13 | W23 |
| T 24 | 20 8 17 | 1°16'00 | 24°41 | 1♌18 | 5°52 | 22°40 | 13°47 | 14° 9 | 27°33 | 21°20 | 14°37 | 14° 8 | 15°33 | 26°44 | 20°17 | T 24 |
| F 25 | 20 12 13 | 2°13'23 | 7♌59 | 3°24 | 7° 6 | 23° 1 | 13°40 | 14°16 | 27°31 | 21°19 | 14°38 | 14° 2 | 15°30 | 26°50 | 20°21 | F 25 |
| S 26 | 20 16 10 | 3°10'47 | 20°59 | 5°28 | 8°20 | 23°22 | 13°32 | 14°24 | 27°29 | 21°18 | 14°39 | 13°58 | 15°27 | 26°57 | 20°25 | S 26 |
| S 27 | 20 20 7 | 4° 8'12 | 3♍41 | 7°31 | 9°34 | 23°44 | 13°25 | 14°31 | 27°27 | 21°17 | 14°40 | 13°56 | 15°23 | 27° 4 | 20°29 | S 27 |
| M28 | 20 24 3 | 5° 5'37 | 16° 6 | 9°33 | 10°48 | 24° 7 | 13°17 | 14°39 | 27°25 | 21°16 | 14°41 | 13°D55 | 15°20 | 27°10 | 20°33 | M28 |
| T 29 | 20 28 0 | 6° 3'03 | 28°16 | 11°34 | 12° 2 | 24°30 | 13° 9 | 14°47 | 27°24 | 21°15 | 14°42 | 13°56 | 15°17 | 27°17 | 20°38 | T 29 |
| W30 | 20 31 56 | 7° 0'30 | 10♎15 | 13°33 | 13°16 | 24°54 | 13° 2 | 14°54 | 27°22 | 21°14 | 14°43 | 13°58 | 15°14 | 27°24 | 20°42 | W30 |
| T 31 | 20 35 53 | 7♌57'58 | 22♎ 7 | 15♌31 | 14♌30 | 25♏18 | 12♒54 | 15♌ 2 | 27♐20 | 21♐13 | 14♊44 | 13♓59 | 15♓11 | 27♎30 | 20♎47 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 9 | 3n27 | 0s25 | 20n48 | 2s12 | 23n47 | 0n31 | 19s28 | 2s31 | 16s50 | 0s51 | 18n18 | 0n56 | 23s43 | 0s14 | 21s55 | 1n20 | 13n30 | 9s 7 | 5s38 | 5s14 | 12s18 | 7s38 | 0s 6 |
| W 2 | 23 5 | 2s16 | 1 27 | 21 7 | 2 0 | 23 45 | 0 33 | 19 31 | 2 32 | 16 51 | 0 51 | 18 17 | 0 56 | 23 43 | 0 14 | 21 55 | 1 20 | 13 30 | 9 7 | 5 38 | 5 15 | 12 21 | 7 38 | 0 6 |
| T 3 | 23 1 | 7 51 | 2 26 | 21 25 | 1 47 | 23 42 | 0 35 | 19 34 | 2 33 | 16 53 | 0 52 | 18 15 | 0 56 | 23 43 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 38 | 5 17 | 12 24 | 7 38 | 0 6 |
| F 4 | 22 56 | 13 9 | 3 18 | 21 43 | 1 34 | 23 38 | 0 37 | 19 37 | 2 34 | 16 55 | 0 52 | 18 13 | 0 56 | 23 43 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 38 | 5 18 | 12 27 | 7 39 | 0 5 |
| S 5 | 22 50 | 17 59 | 4 1 | 22 1 | 1 21 | 23 33 | 0 40 | 19 40 | 2 35 | 16 56 | 0 52 | 18 11 | 0 56 | 23 43 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 39 | 5 19 | 12 30 | 7 39 | 0 5 |
| S 6 | 22 44 | 22 10 | 4 35 | 22 17 | 1 8 | 23 28 | 0 42 | 19 43 | 2 36 | 16 58 | 0 52 | 18 9 | 0 56 | 23 43 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 41 | 5 20 | 12 34 | 7 40 | 0 5 |
| M 7 | 22 38 | 25 28 | 4 56 | 22 33 | 0 55 | 23 22 | 0 44 | 19 47 | 2 36 | 17 0 | 0 52 | 18 7 | 0 56 | 23 43 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 44 | 5 21 | 12 37 | 7 40 | 0 4 |
| T 8 | 22 32 | 27 38 | 5 4 | 22 47 | 0 42 | 23 16 | 0 46 | 19 50 | 2 37 | 17 2 | 0 53 | 18 5 | 0 56 | 23 42 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 48 | 5 23 | 12 40 | 7 41 | 0 4 |
| W 9 | 22 25 | 28 25 | 4 58 | 22 59 | 0 30 | 23 9 | 0 48 | 19 54 | 2 38 | 17 4 | 0 53 | 18 3 | 0 56 | 23 42 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 51 | 5 24 | 12 43 | 7 41 | 0 4 |
| T 10 | 22 17 | 27 40 | 4 36 | 23 10 | 0 17 | 23 1 | 0 50 | 19 58 | 2 38 | 17 6 | 0 53 | 18 1 | 0 56 | 23 42 | 0 14 | 21 54 | 1 20 | 13 30 | 9 7 | 5 55 | 5 25 | 12 46 | 7 42 | 0 3 |
| F 11 | 22 9 | 25 21 | 3 59 | 23 19 | 0 5 | 22 52 | 0 52 | 20 3 | 2 39 | 17 8 | 0 53 | 17 59 | 0 56 | 23 42 | 0 14 | 21 54 | 1 19 | 13 30 | 9 7 | 5 59 | 5 26 | 12 49 | 7 43 | 0 3 |
| S 12 | 22 1 | 21 35 | 3 8 | 23 26 | 0n 7 | 22 43 | 0 53 | 20 7 | 2 40 | 17 10 | 0 53 | 17 57 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 30 | 9 7 | 6 1 | 5 28 | 12 52 | 7 43 | 0 3 |
| S 13 | 21 53 | 16 37 | 2 5 | 23 31 | 0 18 | 22 33 | 0 55 | 20 11 | 2 40 | 17 12 | 0 54 | 17 55 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 30 | 9 8 | 6 3 | 5 29 | 12 55 | 7 44 | 0 2 |
| M14 | 21 44 | 10 43 | 0 54 | 23 34 | 0 29 | 22 22 | 0 57 | 20 16 | 2 41 | 17 14 | 0 54 | 17 53 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 30 | 9 8 | 6 4 | 5 30 | 12 58 | 7 45 | 0 2 |
| T 15 | 21 35 | 4 16 | 0n21 | 23 33 | 0 39 | 22 11 | 0 59 | 20 20 | 2 41 | 17 16 | 0 54 | 17 51 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 31 | 9 8 | 6 4 | 5 31 | 13 1 | 7 46 | 0 2 |
| W16 | 21 25 | 2n27 | 1 35 | 23 31 | 0 49 | 21 59 | 1 1 | 20 25 | 2 42 | 17 19 | 0 54 | 17 49 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 31 | 9 8 | 6 4 | 5 33 | 13 5 | 7 47 | 0 1 |
| T 17 | 21 15 | 9 4 | 2 44 | 23 25 | 0 58 | 21 46 | 1 2 | 20 30 | 2 42 | 17 21 | 0 55 | 17 47 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 31 | 9 8 | 6 4 | 5 34 | 13 8 | 7 48 | 0 1 |
| F 18 | 21 5 | 15 15 | 3 43 | 23 17 | 1 6 | 21 33 | 1 4 | 20 35 | 2 43 | 17 23 | 0 55 | 17 44 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 31 | 9 8 | 6 4 | 5 35 | 13 11 | 7 49 | 0 1 |
| S 19 | 20 54 | 20 38 | 4 28 | 23 6 | 1 14 | 21 19 | 1 5 | 20 40 | 2 43 | 17 25 | 0 55 | 17 42 | 0 57 | 23 42 | 0 14 | 21 54 | 1 19 | 13 31 | 9 8 | 6 4 | 5 36 | 13 14 | 7 50 | 0 0 |
| S 20 | 20 43 | 24 50 | 4 57 | 22 52 | 1 20 | 21 5 | 1 7 | 20 45 | 2 43 | 17 27 | 0 55 | 17 40 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 8 | 6 5 | 5 38 | 13 17 | 7 51 | 0 0 |
| M21 | 20 31 | 27 32 | 5 8 | 22 36 | 1 26 | 20 50 | 1 8 | 20 51 | 2 44 | 17 30 | 0 55 | 17 38 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 8 | 6 7 | 5 39 | 13 20 | 7 52 | 0n 0 |
| T 22 | 20 20 | 28 28 | 5 0 | 22 17 | 1 32 | 20 34 | 1 10 | 20 56 | 2 44 | 17 32 | 0 55 | 17 36 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 8 | 6 10 | 5 40 | 13 23 | 7 53 | 0 1 |
| W23 | 20 7 | 27 36 | 4 35 | 21 55 | 1 36 | 20 18 | 1 11 | 21 2 | 2 44 | 17 34 | 0 56 | 17 34 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 8 | 6 13 | 5 41 | 13 26 | 7 54 | 0 1 |
| T 24 | 19 55 | 25 5 | 3 55 | 21 32 | 1 40 | 20 1 | 1 12 | 21 7 | 2 44 | 17 37 | 0 56 | 17 32 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 8 | 6 15 | 5 42 | 13 29 | 7 55 | 0 1 |
| F 25 | 19 42 | 21 14 | 3 2 | 21 6 | 1 43 | 19 43 | 1 14 | 21 13 | 2 45 | 17 39 | 0 56 | 17 30 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 9 | 6 18 | 5 44 | 13 32 | 7 56 | 0 2 |
| S 26 | 19 29 | 16 27 | 2 1 | 20 38 | 1 45 | 19 25 | 1 15 | 21 19 | 2 45 | 17 41 | 0 56 | 17 27 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 9 | 6 19 | 5 45 | 13 35 | 7 58 | 0 2 |
| S 27 | 19 16 | 11 2 | 0 55 | 20 8 | 1 46 | 19 7 | 1 16 | 21 24 | 2 45 | 17 44 | 0 56 | 17 25 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 9 | 6 20 | 5 46 | 13 38 | 7 59 | 0 2 |
| M28 | 19 2 | 5 19 | 0s12 | 19 37 | 1 47 | 18 48 | 1 17 | 21 30 | 2 45 | 17 46 | 0 56 | 17 23 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 9 | 6 20 | 5 47 | 13 41 | 8 0 | 0 3 |
| T 29 | 18 48 | 0s29 | 1 17 | 19 3 | 1 47 | 18 28 | 1 18 | 21 36 | 2 45 | 17 48 | 0 57 | 17 21 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 9 | 6 20 | 5 49 | 13 44 | 8 2 | 0 3 |
| W30 | 18 33 | 6 11 | 2 19 | 18 29 | 1 46 | 18 8 | 1 19 | 21 42 | 2 45 | 17 51 | 0 57 | 17 19 | 0 57 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 9 | 6 19 | 5 50 | 13 47 | 8 3 | 0 3 |
| T 31 | 18n19 | 11s37 | 3s13 | 17n53 | 1n45 | 17n47 | 1n20 | 21s48 | 2s45 | 17s53 | 0s57 | 17n17 | 0n58 | 23s42 | 0s14 | 21s53 | 1n19 | 13n31 | 9s 9 | 6s19 | 5s51 | 13s51 | 8s 4 | 0n 3 |

Julian Day Number = 2324987.5, Delta T = 40.88 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'14, Lahiri = 19°01'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## AUGUST 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 39 49 | 8♌55'27 | 3♏58 | 17♌27 | 15♌44 | 25♏42 | 12°R46 | 15♌10 | 27°R19 | 21°R12 | 14♊45 | 14°R 0 | 15♓ 8 | 27♎37 | 20♎51 | F 1 |
| S 2 | 20 43 46 | 9°52'56 | 15°51 | 19°22 | 16°58 | 26° 7 | 12♒38 | 15°17 | 27♐17 | 21♐11 | 14°45 | 14♓ 0 | 15° 4 | 27°44 | 20°56 | S 2 |
| S 3 | 20 47 42 | 10°50'26 | 27°53 | 21°15 | 18°12 | 26°33 | 12°30 | 15°25 | 27°16 | 21°10 | 14°46 | 13°59 | 15° 1 | 27°50 | 21° 1 | S 3 |
| M 4 | 20 51 39 | 11°47'57 | 10♐ 7 | 23° 7 | 19°26 | 26°58 | 12°22 | 15°33 | 27°14 | 21° 9 | 14°47 | 13°56 | 14°58 | 27°57 | 21° 6 | M 4 |
| T 5 | 20 55 36 | 12°45'29 | 22°37 | 24°58 | 20°40 | 27°25 | 12°15 | 15°40 | 27°13 | 21° 8 | 14°48 | 13°52 | 14°55 | 28° 4 | 21°11 | T 5 |
| W 6 | 20 59 32 | 13°43'02 | 5♑27 | 26°46 | 21°54 | 27°51 | 12° 7 | 15°48 | 27°11 | 21° 7 | 14°49 | 13°47 | 14°52 | 28°11 | 21°16 | W 6 |
| T 7 | 21 3 29 | 14°40'36 | 18°37 | 28°34 | 23° 8 | 28°18 | 11°59 | 15°56 | 27°10 | 21° 7 | 14°50 | 13°43 | 14°48 | 28°17 | 21°21 | T 7 |
| F 8 | 21 7 25 | 15°38'11 | 2♒ 7 | 0♍19 | 24°23 | 28°46 | 11°51 | 16° 3 | 27° 8 | 21° 6 | 14°50 | 13°39 | 14°45 | 28°24 | 21°27 | F 8 |
| S 9 | 21 11 22 | 16°35'48 | 15°57 | 2° 4 | 25°37 | 29°14 | 11°43 | 16°11 | 27° 7 | 21° 5 | 14°51 | 13°35 | 14°42 | 28°31 | 21°32 | S 9 |
| S 10 | 21 15 18 | 17°33'25 | 0♓ 2 | 3°46 | 26°51 | 29°42 | 11°36 | 16°19 | 27° 6 | 21° 4 | 14°52 | 13°34 | 14°39 | 28°37 | 21°37 | S 10 |
| M11 | 21 19 15 | 18°31'04 | 14°18 | 5°28 | 28° 5 | 0♐11 | 11°28 | 16°26 | 27° 5 | 21° 4 | 14°53 | 13°D33 | 14°36 | 28°44 | 21°43 | M11 |
| T 12 | 21 23 11 | 19°28'44 | 28°41 | 7° 8 | 29°19 | 0°40 | 11°20 | 16°34 | 27° 3 | 21° 3 | 14°53 | 13°34 | 14°33 | 28°51 | 21°48 | T 12 |
| W13 | 21 27 8 | 20°26'25 | 13♈ 7 | 8°46 | 0♍33 | 1° 9 | 11°13 | 16°42 | 27° 2 | 21° 2 | 14°54 | 13°35 | 14°29 | 28°57 | 21°54 | W13 |
| T 14 | 21 31 5 | 21°24'08 | 27°30 | 10°23 | 1°47 | 1°38 | 11° 5 | 16°50 | 27° 1 | 21° 2 | 14°55 | 13°36 | 14°26 | 29° 4 | 22° 0 | T 14 |
| F 15 | 21 35 1 | 22°21'53 | 11♉48 | 11°59 | 3° 1 | 2° 8 | 10°57 | 16°57 | 27° 0 | 21° 1 | 14°55 | 13°37 | 14°23 | 29°11 | 22° 6 | F 15 |
| S 16 | 21 38 58 | 23°19'40 | 25°58 | 13°33 | 4°16 | 2°39 | 10°50 | 17° 5 | 26°59 | 21° 1 | 14°56 | 13°R37 | 14°20 | 29°17 | 22°12 | S 16 |
| S 17 | 21 42 54 | 24°17'29 | 9♊59 | 15° 6 | 5°30 | 3° 9 | 10°42 | 17°13 | 26°58 | 21° 0 | 14°56 | 13°37 | 14°17 | 29°24 | 22°18 | S 17 |
| M18 | 21 46 51 | 25°15'19 | 23°48 | 16°37 | 6°44 | 3°40 | 10°35 | 17°20 | 26°57 | 21° 0 | 14°57 | 13°35 | 14°14 | 29°31 | 22°24 | M18 |
| T 19 | 21 50 47 | 26°13'11 | 7♋24 | 18° 7 | 7°58 | 4°12 | 10°28 | 17°28 | 26°56 | 20°59 | 14°58 | 13°33 | 14°10 | 29°37 | 22°30 | T 19 |
| W20 | 21 54 44 | 27°11'05 | 20°48 | 19°35 | 9°12 | 4°43 | 10°21 | 17°35 | 26°56 | 20°59 | 14°58 | 13°31 | 14° 7 | 29°44 | 22°36 | W20 |
| T 21 | 21 58 40 | 28° 9'01 | 3♌58 | 21° 2 | 10°26 | 5°15 | 10°13 | 17°43 | 26°55 | 20°58 | 14°59 | 13°29 | 14° 4 | 29°51 | 22°42 | T 21 |
| F 22 | 22 2 37 | 29° 6'58 | 16°53 | 22°28 | 11°41 | 5°48 | 10° 6 | 17°51 | 26°54 | 20°58 | 14°59 | 13°27 | 14° 1 | 29°57 | 22°49 | F 22 |
| S 23 | 22 6 34 | 0♍ 4'56 | 29°35 | 23°52 | 12°55 | 6°20 | 10° 0 | 17°58 | 26°53 | 20°58 | 15° 0 | 13°26 | 13°58 | 0♏ 4 | 22°55 | S 23 |
| S 24 | 22 10 30 | 1° 2'57 | 12♍ 3 | 25°14 | 14° 9 | 6°53 | 9°53 | 18° 6 | 26°53 | 20°57 | 15° 0 | 13°D26 | 13°54 | 0°11 | 23° 1 | S 24 |
| M25 | 22 14 27 | 2° 0'58 | 24°18 | 26°35 | 15°23 | 7°26 | 9°46 | 18°13 | 26°52 | 20°57 | 15° 1 | 13°26 | 13°51 | 0°18 | 23° 8 | M25 |
| T 26 | 22 18 23 | 2°59'02 | 6♎22 | 27°55 | 16°37 | 8° 0 | 9°39 | 18°21 | 26°52 | 20°57 | 15° 1 | 13°26 | 13°48 | 0°24 | 23°15 | T 26 |
| W27 | 22 22 20 | 3°57'06 | 18°18 | 29°13 | 17°51 | 8°33 | 9°33 | 18°28 | 26°51 | 20°57 | 15° 1 | 13°27 | 13°45 | 0°31 | 23°21 | W27 |
| T 28 | 22 26 16 | 4°55'13 | 0♏10 | 0♎29 | 19° 6 | 9° 7 | 9°26 | 18°36 | 26°51 | 20°56 | 15° 2 | 13°28 | 13°42 | 0°38 | 23°28 | T 28 |
| F 29 | 22 30 13 | 5°53'21 | 11°59 | 1°43 | 20°20 | 9°42 | 9°20 | 18°43 | 26°50 | 20°56 | 15° 2 | 13°29 | 13°39 | 0°44 | 23°35 | F 29 |
| S 30 | 22 34 9 | 6°51'30 | 23°52 | 2°56 | 21°34 | 10°16 | 9°14 | 18°51 | 26°50 | 20°56 | 15° 3 | 13°30 | 13°35 | 0°51 | 23°42 | S 30 |
| S 31 | 22 38 6 | 7♍49'41 | 5♐53 | 4♎ 6 | 22♍48 | 10♐51 | 9♒ 8 | 18♌58 | 26♐50 | 20♐56 | 15♊ 3 | 13°R30 | 13♓32 | 0♏58 | 23♎49 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18n 4 | 16s37 | 3s59 | 17n16 | 1n43 | 17n26 | 1n21 | 21s54 | 2s45 | 17s55 | 0s57 | 17n14 | 0n58 | 23s42 | 0s14 | 21s53 | 1n19 | 13n31 | 9s 9 | 6s18 | 5s52 | 13s54 | 8s 6 | 0n 4 |
| S 2 | 17 48 | 21 1 | 4 36 | 16 38 | 1 40 | 17 5 | 1 22 | 22 0 | 2 45 | 17 58 | 0 57 | 17 12 | 0 58 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 9 | 6 18 | 5 54 | 13 57 | 8 7 | 0 4 |
| S 3 | 17 33 | 24 36 | 5 0 | 15 59 | 1 38 | 16 43 | 1 23 | 22 6 | 2 45 | 18 0 | 0 57 | 17 10 | 0 58 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 10 | 6 19 | 5 55 | 14 0 | 8 9 | 0 4 |
| M 4 | 17 17 | 27 9 | 5 12 | 15 19 | 1 34 | 16 20 | 1 23 | 22 12 | 2 45 | 18 2 | 0 57 | 17 8 | 0 58 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 10 | 6 20 | 5 56 | 14 3 | 8 11 | 0 5 |
| T 5 | 17 1 | 28 25 | 5 9 | 14 39 | 1 30 | 15 57 | 1 24 | 22 18 | 2 45 | 18 5 | 0 58 | 17 5 | 0 58 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 10 | 6 21 | 5 57 | 14 6 | 8 12 | 0 5 |
| W 6 | 16 44 | 28 13 | 4 51 | 13 57 | 1 26 | 15 34 | 1 24 | 22 24 | 2 45 | 18 7 | 0 58 | 17 3 | 0 58 | 23 42 | 0 14 | 21 53 | 1 19 | 13 31 | 9 10 | 6 23 | 5 58 | 14 9 | 8 14 | 0 5 |
| T 7 | 16 28 | 26 26 | 4 17 | 13 16 | 1 21 | 15 10 | 1 25 | 22 30 | 2 45 | 18 9 | 0 58 | 17 1 | 0 58 | 23 42 | 0 14 | 21 53 | 1 18 | 13 31 | 9 10 | 6 25 | 6 0 | 14 12 | 8 15 | 0 6 |
| F 8 | 16 11 | 23 6 | 3 28 | 12 34 | 1 16 | 14 46 | 1 25 | 22 36 | 2 45 | 18 12 | 0 58 | 16 59 | 0 58 | 23 42 | 0 14 | 21 53 | 1 18 | 13 30 | 9 10 | 6 27 | 6 1 | 14 15 | 8 17 | 0 6 |
| S 9 | 15 54 | 18 24 | 2 26 | 11 51 | 1 10 | 14 21 | 1 26 | 22 43 | 2 45 | 18 14 | 0 58 | 16 57 | 0 58 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 10 | 6 28 | 6 2 | 14 18 | 8 19 | 0 6 |
| S 10 | 15 36 | 12 38 | 1 14 | 11 9 | 1 5 | 13 56 | 1 26 | 22 49 | 2 45 | 18 16 | 0 58 | 16 54 | 0 58 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 10 | 6 29 | 6 3 | 14 21 | 8 21 | 0 7 |
| M11 | 15 18 | 6 8 | 0n 4 | 10 26 | 0 58 | 13 31 | 1 26 | 22 55 | 2 45 | 18 18 | 0 58 | 16 52 | 0 58 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 11 | 6 29 | 6 5 | 14 24 | 8 22 | 0 7 |
| T 12 | 15 0 | 0n44 | 1 22 | 9 43 | 0 52 | 13 5 | 1 26 | 23 1 | 2 45 | 18 21 | 0 58 | 16 50 | 0 58 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 11 | 6 29 | 6 6 | 14 27 | 8 24 | 0 7 |
| W13 | 14 42 | 7 34 | 2 36 | 9 0 | 0 45 | 12 39 | 1 26 | 23 7 | 2 44 | 18 23 | 0 58 | 16 48 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 11 | 6 28 | 6 7 | 14 30 | 8 26 | 0 7 |
| T 14 | 14 24 | 14 0 | 3 39 | 8 16 | 0 38 | 12 12 | 1 26 | 23 13 | 2 44 | 18 25 | 0 58 | 16 45 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 11 | 6 28 | 6 8 | 14 33 | 8 28 | 0 8 |
| F 15 | 14 5 | 19 39 | 4 28 | 7 33 | 0 31 | 11 45 | 1 26 | 23 19 | 2 44 | 18 27 | 0 59 | 16 43 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 11 | 6 27 | 6 10 | 14 36 | 8 30 | 0 8 |
| S 16 | 13 46 | 24 9 | 5 0 | 6 50 | 0 23 | 11 18 | 1 26 | 23 24 | 2 44 | 18 29 | 0 59 | 16 41 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 11 | 6 27 | 6 11 | 14 39 | 8 32 | 0 8 |
| S 17 | 13 27 | 27 10 | 5 15 | 6 7 | 0 16 | 10 51 | 1 26 | 23 30 | 2 44 | 18 31 | 0 59 | 16 39 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 11 | 6 27 | 6 12 | 14 42 | 8 34 | 0 9 |
| M18 | 13 8 | 28 30 | 5 10 | 5 25 | 0 8 | 10 23 | 1 26 | 23 36 | 2 43 | 18 34 | 0 59 | 16 36 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 12 | 6 28 | 6 13 | 14 45 | 8 36 | 0 9 |
| T 19 | 12 48 | 28 5 | 4 48 | 4 42 | 0s 0 | 9 55 | 1 26 | 23 42 | 2 43 | 18 36 | 0 59 | 16 34 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 12 | 6 29 | 6 14 | 14 48 | 8 38 | 0 9 |
| W20 | 12 28 | 26 1 | 4 11 | 4 0 | 0 9 | 9 27 | 1 25 | 23 47 | 2 43 | 18 38 | 0 59 | 16 32 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 12 | 6 30 | 6 16 | 14 51 | 8 40 | 0 10 |
| T 21 | 12 8 | 22 33 | 3 21 | 3 18 | 0 17 | 8 59 | 1 25 | 23 53 | 2 42 | 18 40 | 0 59 | 16 30 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 30 | 9 12 | 6 30 | 6 17 | 14 54 | 8 42 | 0 10 |
| F 22 | 11 48 | 18 3 | 2 22 | 2 36 | 0 25 | 8 30 | 1 24 | 23 59 | 2 42 | 18 42 | 0 59 | 16 27 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 29 | 9 12 | 6 31 | 6 18 | 14 56 | 8 44 | 0 10 |
| S 23 | 11 28 | 12 50 | 1 16 | 1 55 | 0 34 | 8 1 | 1 24 | 24 4 | 2 42 | 18 44 | 0 59 | 16 25 | 0 59 | 23 41 | 0 14 | 21 53 | 1 18 | 13 29 | 9 12 | 6 32 | 6 19 | 14 59 | 8 46 | 0 10 |
| S 24 | 11 7 | 7 11 | 0 8 | 1 15 | 0 43 | 7 32 | 1 23 | 24 9 | 2 42 | 18 45 | 0 59 | 16 23 | 1 0 | 23 41 | 0 14 | 21 53 | 1 18 | 13 29 | 9 13 | 6 32 | 6 21 | 15 2 | 8 48 | 0 11 |
| M25 | 10 47 | 1 21 | 1s 0 | 0 34 | 0 52 | 7 2 | 1 22 | 24 15 | 2 41 | 18 47 | 0 59 | 16 21 | 1 0 | 23 41 | 0 14 | 21 53 | 1 18 | 13 29 | 9 13 | 6 32 | 6 22 | 15 5 | 8 50 | 0 11 |
| T 26 | 10 26 | 4s26 | 2 4 | 0s 5 | 1 0 | 6 33 | 1 22 | 24 20 | 2 41 | 18 49 | 0 59 | 16 18 | 1 0 | 23 41 | 0 14 | 21 53 | 1 18 | 13 29 | 9 13 | 6 31 | 6 23 | 15 8 | 8 52 | 0 11 |
| W27 | 10 5 | 9 59 | 3 1 | 0 45 | 1 9 | 6 3 | 1 21 | 24 25 | 2 40 | 18 51 | 0 59 | 16 16 | 1 0 | 23 41 | 0 14 | 21 53 | 1 18 | 13 29 | 9 13 | 6 31 | 6 24 | 15 11 | 8 55 | 0 12 |
| T 28 | 9 44 | 15 9 | 3 51 | 1 23 | 1 18 | 5 33 | 1 20 | 24 30 | 2 40 | 18 53 | 0 59 | 16 14 | 1 0 | 23 41 | 0 14 | 21 53 | 1 17 | 13 29 | 9 13 | 6 31 | 6 25 | 15 14 | 8 57 | 0 12 |
| F 29 | 9 22 | 19 45 | 4 31 | 2 1 | 1 27 | 5 3 | 1 19 | 24 35 | 2 40 | 18 54 | 0 59 | 16 12 | 1 0 | 23 41 | 0 14 | 21 53 | 1 17 | 13 29 | 9 13 | 6 30 | 6 27 | 15 17 | 8 59 | 0 12 |
| S 30 | 9 1 | 23 36 | 4 59 | 2 38 | 1 36 | 4 33 | 1 18 | 24 39 | 2 39 | 18 56 | 0 59 | 16 9 | 1 0 | 23 41 | 0 14 | 21 53 | 1 17 | 13 29 | 9 13 | 6 30 | 6 28 | 15 20 | 9 1 | 0 12 |
| S 31 | 8n39 | 26s29 | 5s14 | 3s14 | 1s45 | 4n 2 | 1n17 | 24s44 | 2s39 | 18s58 | 0s59 | 16n 7 | 1n 0 | 23s41 | 0s14 | 21s53 | 1n17 | 13n28 | 9s14 | 6s30 | 6s29 | 15s23 | 9s 4 | 0n13 |

Julian Day Number = 2325018.5, Delta T = 40.82 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'18, Lahiri = 19°01'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## SEPTEMBER 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 42 3 | 8♍47'53 | 18♐ 5 | 5♎15 | 24♍ 2 | 11♐26 | 9°R 2 | 19♌ 6 | 26°R49 | 20°R56 | 15♊ 3 | 13°R30 | 13♓29 | 1♏ 4 | 23♎55 | M 1 |
| T 2 | 22 45 59 | 9°46'07 | 0♑34 | 6°22 | 25°17 | 12° 1 | 8♒56 | 19°13 | 26♐49 | 20°D56 | 15° 3 | 13♓29 | 13°26 | 1°11 | 24° 3 | T 2 |
| W 3 | 22 49 56 | 10°44'23 | 13°23 | 7°26 | 26°31 | 12°37 | 8°51 | 19°20 | 26°49 | 20♐56 | 15° 4 | 13°29 | 13°23 | 1°18 | 24°10 | W 3 |
| T 4 | 22 53 52 | 11°42'40 | 26°36 | 8°28 | 27°45 | 13°12 | 8°45 | 19°28 | 26°49 | 20°56 | 15° 4 | 13°29 | 13°20 | 1°24 | 24°17 | T 4 |
| F 5 | 22 57 49 | 12°40'59 | 10♒13 | 9°28 | 28°59 | 13°48 | 8°40 | 19°35 | 26°D49 | 20°56 | 15° 4 | 13°29 | 13°16 | 1°31 | 24°24 | F 5 |
| S 6 | 23 1 45 | 13°39'19 | 24°14 | 10°25 | 0♎13 | 14°24 | 8°35 | 19°42 | 26°49 | 20°56 | 15° 4 | 13°D29 | 13°13 | 1°38 | 24°31 | S 6 |
| S 7 | 23 5 42 | 14°37'41 | 8♓37 | 11°19 | 1°27 | 15° 1 | 8°30 | 19°50 | 26°49 | 20°57 | 15° 4 | 13°R29 | 13°10 | 1°44 | 24°38 | S 7 |
| M 8 | 23 9 38 | 15°36'04 | 23°16 | 12°10 | 2°42 | 15°37 | 8°25 | 19°57 | 26°49 | 20°57 | 15° 5 | 13°29 | 13° 7 | 1°51 | 24°46 | M 8 |
| T 9 | 23 13 35 | 16°34'30 | 8♈ 5 | 12°58 | 3°56 | 16°14 | 8°21 | 20° 4 | 26°49 | 20°57 | 15° 5 | 13°29 | 13° 4 | 1°58 | 24°53 | T 9 |
| W10 | 23 17 31 | 17°32'58 | 22°57 | 13°43 | 5°10 | 16°51 | 8°16 | 20°11 | 26°50 | 20°57 | 15° 5 | 13°28 | 13° 0 | 2° 5 | 25° 1 | W10 |
| T 11 | 23 21 28 | 18°31'27 | 7♉44 | 14°24 | 6°24 | 17°28 | 8°12 | 20°18 | 26°50 | 20°57 | 15° 5 | 13°28 | 12°57 | 2°11 | 25° 8 | T 11 |
| F 12 | 23 25 25 | 19°29'59 | 22°19 | 15° 0 | 7°38 | 18° 6 | 8° 8 | 20°25 | 26°50 | 20°58 | 15° 5 | 13°27 | 12°54 | 2°18 | 25°16 | F 12 |
| S 13 | 23 29 21 | 20°28'34 | 6♊39 | 15°33 | 8°52 | 18°44 | 8° 4 | 20°32 | 26°51 | 20°58 | 15° 5 | 13°27 | 12°51 | 2°25 | 25°23 | S 13 |
| S 14 | 23 33 18 | 21°27'10 | 20°40 | 16° 1 | 10° 7 | 19°21 | 8° 0 | 20°39 | 26°51 | 20°58 | 15°R 5 | 13°D27 | 12°48 | 2°31 | 25°31 | S 14 |
| M15 | 23 37 14 | 22°25'49 | 4♋21 | 16°24 | 11°21 | 19°59 | 7°56 | 20°46 | 26°52 | 20°59 | 15° 5 | 13°27 | 12°45 | 2°38 | 25°39 | M15 |
| T 16 | 23 41 11 | 23°24'30 | 17°44 | 16°42 | 12°35 | 20°38 | 7°53 | 20°53 | 26°52 | 20°59 | 15° 5 | 13°27 | 12°41 | 2°45 | 25°46 | T 16 |
| W17 | 23 45 7 | 24°23'14 | 0♌48 | 16°54 | 13°49 | 21°16 | 7°50 | 21° 0 | 26°53 | 21° 0 | 15° 5 | 13°28 | 12°38 | 2°51 | 25°54 | W17 |
| T 18 | 23 49 4 | 25°21'59 | 13°37 | 17°R 0 | 15° 3 | 21°54 | 7°47 | 21° 7 | 26°53 | 21° 0 | 15° 5 | 13°29 | 12°35 | 2°58 | 26° 2 | T 18 |
| F 19 | 23 53 1 | 26°20'47 | 26°12 | 16°59 | 16°17 | 22°33 | 7°44 | 21°14 | 26°54 | 21° 1 | 15° 5 | 13°30 | 12°32 | 3° 5 | 26°10 | F 19 |
| S 20 | 23 56 57 | 27°19'37 | 8♍35 | 16°51 | 17°32 | 23°12 | 7°41 | 21°21 | 26°55 | 21° 1 | 15° 5 | 13°R31 | 12°29 | 3°11 | 26°18 | S 20 |
| S 21 | 0 0 54 | 28°18'28 | 20°48 | 16°37 | 18°46 | 23°51 | 7°39 | 21°27 | 26°55 | 21° 2 | 15° 5 | 13°31 | 12°25 | 3°18 | 26°26 | S 21 |
| M22 | 0 4 50 | 29°17'22 | 2♎52 | 16°15 | 20° 0 | 24°30 | 7°36 | 21°34 | 26°56 | 21° 3 | 15° 4 | 13°30 | 12°22 | 3°25 | 26°34 | M22 |
| T 23 | 0 8 47 | 0♎16'18 | 14°50 | 15°45 | 21°14 | 25°10 | 7°34 | 21°40 | 26°57 | 21° 3 | 15° 4 | 13°28 | 12°19 | 3°32 | 26°42 | T 23 |
| W24 | 0 12 43 | 1°15'16 | 26°43 | 15° 8 | 22°28 | 25°49 | 7°32 | 21°47 | 26°58 | 21° 4 | 15° 4 | 13°26 | 12°16 | 3°38 | 26°50 | W24 |
| T 25 | 0 16 40 | 2°14'16 | 8♏33 | 14°24 | 23°42 | 26°29 | 7°31 | 21°53 | 26°59 | 21° 5 | 15° 4 | 13°23 | 12°13 | 3°45 | 26°58 | T 25 |
| F 26 | 0 20 36 | 3°13'17 | 20°22 | 13°33 | 24°56 | 27° 9 | 7°29 | 22° 0 | 27° 0 | 21° 6 | 15° 4 | 13°19 | 12°10 | 3°52 | 27° 6 | F 26 |
| S 27 | 0 24 33 | 4°12'21 | 2♐15 | 12°36 | 26°10 | 27°49 | 7°28 | 22° 6 | 27° 1 | 21° 6 | 15° 3 | 13°16 | 12° 6 | 3°58 | 27°14 | S 27 |
| S 28 | 0 28 29 | 5°11'27 | 14°14 | 11°33 | 27°25 | 28°29 | 7°27 | 22°13 | 27° 2 | 21° 7 | 15° 3 | 13°14 | 12° 3 | 4° 5 | 27°22 | S 28 |
| M29 | 0 32 26 | 6°10'34 | 26°24 | 10°26 | 28°39 | 29°10 | 7°26 | 22°19 | 27° 4 | 21° 8 | 15° 3 | 13°13 | 12° 0 | 4°12 | 27°30 | M29 |
| T 30 | 0 36 23 | 7♎ 9'43 | 8♑49 | 9♎17 | 29♎53 | 29♐50 | 7♒25 | 22♌25 | 27♐ 5 | 21♐ 9 | 15♊ 2 | 13°D12 | 11♓57 | 4♏18 | 27♎38 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8n17 | 28s12 | 5s16 | 3s50 | 1s54 | 3n32 | 1n16 | 24s49 | 2s38 | 18s59 | 0s59 | 16n 5 | 1n 0 | 23s41 | 0s14 | 21s53 | 1n17 | 13n28 | 9s14 | 6s30 | 6s30 | 15s26 | 9s 6 | 0n13 |
| T 2 | 7 55 | 28 32 | 5 3 | 4 24 | 2 3 | 3 1 | 1 15 | 24 53 | 2 38 | 19 1 | 0 59 | 16 3 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 28 | 9 14 | 6 30 | 6 32 | 15 29 | 9 8 | 0 13 |
| W 3 | 7 33 | 27 22 | 4 35 | 4 58 | 2 11 | 2 31 | 1 13 | 24 57 | 2 37 | 19 2 | 0 59 | 16 1 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 28 | 9 14 | 6 30 | 6 33 | 15 32 | 9 11 | 0 14 |
| T 4 | 7 11 | 24 40 | 3 52 | 5 30 | 2 20 | 2 0 | 1 12 | 25 1 | 2 37 | 19 3 | 0 59 | 15 58 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 28 | 9 14 | 6 30 | 6 34 | 15 35 | 9 13 | 0 14 |
| F 5 | 6 49 | 20 31 | 2 54 | 6 2 | 2 28 | 1 29 | 1 11 | 25 5 | 2 36 | 19 5 | 0 59 | 15 56 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 28 | 9 14 | 6 30 | 6 35 | 15 38 | 9 15 | 0 14 |
| S 6 | 6 26 | 15 7 | 1 45 | 6 32 | 2 37 | 0 58 | 1 9 | 25 9 | 2 36 | 19 6 | 0 59 | 15 54 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 28 | 9 15 | 6 30 | 6 36 | 15 40 | 9 18 | 0 14 |
| S 7 | 6 4 | 8 46 | 0 27 | 7 1 | 2 45 | 0 27 | 1 8 | 25 13 | 2 35 | 19 8 | 0 59 | 15 52 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 28 | 9 15 | 6 30 | 6 38 | 15 43 | 9 20 | 0 15 |
| M 8 | 5 41 | 1 51 | 0n54 | 7 28 | 2 53 | 0s 4 | 1 6 | 25 17 | 2 35 | 19 9 | 0 59 | 15 50 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 27 | 9 15 | 6 30 | 6 39 | 15 46 | 9 23 | 0 15 |
| T 9 | 5 19 | 5n14 | 2 12 | 7 54 | 3 0 | 0 35 | 1 4 | 25 20 | 2 34 | 19 10 | 0 59 | 15 48 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 27 | 9 15 | 6 30 | 6 40 | 15 49 | 9 25 | 0 15 |
| W10 | 4 56 | 12 4 | 3 22 | 8 18 | 3 8 | 1 6 | 1 3 | 25 23 | 2 34 | 19 11 | 0 59 | 15 45 | 1 1 | 23 41 | 0 14 | 21 54 | 1 17 | 13 27 | 9 15 | 6 31 | 6 41 | 15 52 | 9 28 | 0 16 |
| T 11 | 4 33 | 18 10 | 4 18 | 8 40 | 3 15 | 1 37 | 1 1 | 25 26 | 2 33 | 19 12 | 0 59 | 15 43 | 1 2 | 23 41 | 0 14 | 21 54 | 1 17 | 13 27 | 9 15 | 6 31 | 6 43 | 15 55 | 9 30 | 0 16 |
| F 12 | 4 10 | 23 9 | 4 56 | 9 1 | 3 21 | 2 8 | 0 59 | 25 29 | 2 33 | 19 13 | 0 59 | 15 41 | 1 2 | 23 41 | 0 14 | 21 54 | 1 17 | 13 27 | 9 16 | 6 31 | 6 44 | 15 58 | 9 33 | 0 16 |
| S 13 | 3 47 | 26 38 | 5 15 | 9 19 | 3 27 | 2 39 | 0 57 | 25 32 | 2 32 | 19 14 | 0 59 | 15 39 | 1 2 | 23 41 | 0 14 | 21 54 | 1 17 | 13 27 | 9 16 | 6 31 | 6 45 | 16 1 | 9 35 | 0 16 |
| S 14 | 3 24 | 28 23 | 5 15 | 9 35 | 3 33 | 3 10 | 0 55 | 25 34 | 2 31 | 19 15 | 0 59 | 15 37 | 1 2 | 23 41 | 0 14 | 21 54 | 1 17 | 13 26 | 9 16 | 6 31 | 6 46 | 16 4 | 9 38 | 0 17 |
| M15 | 3 1 | 28 21 | 4 56 | 9 49 | 3 38 | 3 41 | 0 54 | 25 37 | 2 31 | 19 16 | 0 59 | 15 35 | 1 2 | 23 41 | 0 14 | 21 54 | 1 17 | 13 26 | 9 16 | 6 31 | 6 47 | 16 6 | 9 40 | 0 17 |
| T 16 | 2 37 | 26 38 | 4 22 | 9 59 | 3 42 | 4 11 | 0 52 | 25 39 | 2 30 | 19 17 | 0 59 | 15 33 | 1 2 | 23 41 | 0 14 | 21 54 | 1 17 | 13 26 | 9 16 | 6 31 | 6 49 | 16 9 | 9 43 | 0 17 |
| W17 | 2 14 | 23 31 | 3 35 | 10 7 | 3 46 | 4 42 | 0 50 | 25 41 | 2 30 | 19 18 | 0 59 | 15 31 | 1 2 | 23 41 | 0 14 | 21 55 | 1 16 | 13 26 | 9 16 | 6 31 | 6 50 | 16 12 | 9 45 | 0 18 |
| T 18 | 1 51 | 19 17 | 2 38 | 10 12 | 3 48 | 5 13 | 0 47 | 25 43 | 2 29 | 19 18 | 0 59 | 15 28 | 1 3 | 23 41 | 0 14 | 21 55 | 1 16 | 13 26 | 9 16 | 6 30 | 6 51 | 16 15 | 9 48 | 0 18 |
| F 19 | 1 27 | 14 17 | 1 34 | 10 13 | 3 50 | 5 43 | 0 45 | 25 45 | 2 28 | 19 19 | 0 59 | 15 26 | 1 3 | 23 41 | 0 14 | 21 55 | 1 16 | 13 26 | 9 17 | 6 30 | 6 52 | 16 18 | 9 50 | 0 18 |
| S 20 | 1 4 | 8 47 | 0 27 | 10 10 | 3 50 | 6 14 | 0 43 | 25 46 | 2 28 | 19 20 | 0 59 | 15 24 | 1 3 | 23 41 | 0 14 | 21 55 | 1 16 | 13 25 | 9 17 | 6 30 | 6 53 | 16 21 | 9 53 | 0 18 |
| S 21 | 0 40 | 3 2 | 0s40 | 10 4 | 3 49 | 6 44 | 0 41 | 25 47 | 2 27 | 19 20 | 0 59 | 15 22 | 1 3 | 23 41 | 0 14 | 21 55 | 1 16 | 13 25 | 9 17 | 6 30 | 6 55 | 16 24 | 9 56 | 0 19 |
| M22 | 0 17 | 2s45 | 1 45 | 9 53 | 3 47 | 7 14 | 0 39 | 25 49 | 2 26 | 19 21 | 0 59 | 15 20 | 1 3 | 23 41 | 0 14 | 21 55 | 1 16 | 13 25 | 9 17 | 6 30 | 6 56 | 16 26 | 9 58 | 0 19 |
| T 23 | 0s 6 | 8 23 | 2 44 | 9 38 | 3 43 | 7 44 | 0 36 | 25 49 | 2 26 | 19 21 | 0 59 | 15 18 | 1 3 | 23 41 | 0 14 | 21 55 | 1 16 | 13 25 | 9 17 | 6 31 | 6 57 | 16 29 | 10 1 | 0 19 |
| W24 | 0 30 | 13 41 | 3 36 | 9 19 | 3 37 | 8 14 | 0 34 | 25 50 | 2 25 | 19 22 | 0 58 | 15 16 | 1 3 | 23 41 | 0 14 | 21 55 | 1 16 | 13 25 | 9 17 | 6 32 | 6 58 | 16 32 | 10 4 | 0 19 |
| T 25 | 0 54 | 18 27 | 4 19 | 8 55 | 3 30 | 8 44 | 0 32 | 25 51 | 2 24 | 19 22 | 0 58 | 15 14 | 1 4 | 23 41 | 0 14 | 21 55 | 1 16 | 13 25 | 9 18 | 6 33 | 7 0 | 16 35 | 10 6 | 0 20 |
| F 26 | 1 17 | 22 32 | 4 50 | 8 26 | 3 21 | 9 13 | 0 29 | 25 51 | 2 24 | 19 23 | 0 58 | 15 12 | 1 4 | 23 41 | 0 14 | 21 55 | 1 16 | 13 24 | 9 18 | 6 34 | 7 1 | 16 38 | 10 9 | 0 20 |
| S 27 | 1 41 | 25 42 | 5 9 | 7 54 | 3 10 | 9 43 | 0 27 | 25 51 | 2 23 | 19 23 | 0 58 | 15 10 | 1 4 | 23 41 | 0 14 | 21 55 | 1 16 | 13 24 | 9 18 | 6 35 | 7 2 | 16 40 | 10 11 | 0 20 |
| S 28 | 2 4 | 27 45 | 5 14 | 7 17 | 2 57 | 10 12 | 0 24 | 25 51 | 2 22 | 19 23 | 0 58 | 15 9 | 1 4 | 23 41 | 0 14 | 21 56 | 1 16 | 13 24 | 9 18 | 6 36 | 7 3 | 16 43 | 10 14 | 0 21 |
| M29 | 2 27 | 28 32 | 5 6 | 6 37 | 2 42 | 10 40 | 0 22 | 25 50 | 2 21 | 19 23 | 0 58 | 15 7 | 1 4 | 23 41 | 0 14 | 21 56 | 1 16 | 13 24 | 9 18 | 6 37 | 7 4 | 16 46 | 10 17 | 0 21 |
| T 30 | 2s51 | 27s55 | 4s44 | 5s55 | 2s25 | 11s 9 | 0n19 | 25s50 | 2s21 | 19s23 | 0s58 | 15n 5 | 1n 4 | 23s41 | 0s14 | 21s56 | 1n16 | 13n24 | 9s18 | 6s37 | 7s 6 | 16s49 | 10s20 | 0n21 |

Julian Day Number = 2325049.5, Delta T = 40.76 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'22, Lahiri = 19°01'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## OCTOBER 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 40 19 | 8♎ 8'54 | 21♑32 | 8°R 7 | 1♏ 7 | 0♑31 | 7°R25 | 22♌31 | 27♐ 6 | 21♐10 | 15°R 2 | 13♓13 | 11♓54 | 4♏25 | 27♎47 | W 1 |
| T 2 | 0 44 16 | 9° 8'07 | 4♒39 | 6♎58 | 2°21 | 1°12 | 7♒24 | 22°37 | 27° 7 | 21°11 | 15♊ 2 | 13°14 | 11°51 | 4°32 | 27°55 | T 2 |
| F 3 | 0 48 12 | 10° 7'21 | 18°12 | 5°52 | 3°35 | 1°53 | 7°D24 | 22°44 | 27° 9 | 21°12 | 15° 1 | 13°16 | 11°47 | 4°38 | 28° 3 | F 3 |
| S 4 | 0 52 9 | 11° 6'37 | 2♓12 | 4°51 | 4°49 | 2°34 | 7°24 | 22°49 | 27°10 | 21°13 | 15° 1 | 13°17 | 11°44 | 4°45 | 28°12 | S 4 |
| S 5 | 0 56 5 | 12° 5'55 | 16°38 | 3°56 | 6° 3 | 3°15 | 7°25 | 22°55 | 27°12 | 21°14 | 15° 0 | 13°R17 | 11°41 | 4°52 | 28°20 | S 5 |
| M 6 | 1 0 2 | 13° 5'15 | 1♈28 | 3° 9 | 7°17 | 3°56 | 7°25 | 23° 1 | 27°13 | 21°15 | 15° 0 | 13°16 | 11°38 | 4°59 | 28°28 | M 6 |
| T 7 | 1 3 58 | 14° 4'37 | 16°34 | 2°32 | 8°31 | 4°38 | 7°26 | 23° 7 | 27°15 | 21°16 | 15° 0 | 13°14 | 11°35 | 5° 5 | 28°37 | T 7 |
| W 8 | 1 7 55 | 15° 4'01 | 1♉47 | 2° 5 | 9°45 | 5°19 | 7°27 | 23°13 | 27°16 | 21°17 | 14°59 | 13°10 | 11°31 | 5°12 | 28°45 | W 8 |
| T 9 | 1 11 52 | 16° 3'27 | 16°56 | 1°49 | 10°59 | 6° 1 | 7°28 | 23°18 | 27°18 | 21°18 | 14°59 | 13° 5 | 11°28 | 5°19 | 28°53 | T 9 |
| F 10 | 1 15 48 | 17° 2'56 | 1♊53 | 1°D44 | 12°13 | 6°42 | 7°29 | 23°24 | 27°20 | 21°20 | 14°58 | 13° 0 | 11°25 | 5°25 | 29° 2 | F 10 |
| S 11 | 1 19 45 | 18° 2'26 | 16°29 | 1°50 | 13°27 | 7°24 | 7°30 | 23°30 | 27°22 | 21°21 | 14°57 | 12°56 | 11°22 | 5°32 | 29°10 | S 11 |
| S 12 | 1 23 41 | 19° 2'00 | 0♋41 | 2° 7 | 14°41 | 8° 6 | 7°32 | 23°35 | 27°23 | 21°22 | 14°57 | 12°53 | 11°19 | 5°39 | 29°19 | S 12 |
| M13 | 1 27 38 | 20° 1'35 | 14°25 | 2°34 | 15°55 | 8°48 | 7°34 | 23°40 | 27°25 | 21°23 | 14°56 | 12°D52 | 11°16 | 5°45 | 29°27 | M13 |
| T 14 | 1 31 34 | 21° 1'13 | 27°45 | 3°10 | 17° 9 | 9°31 | 7°36 | 23°46 | 27°27 | 21°25 | 14°56 | 12°52 | 11°12 | 5°52 | 29°36 | T 14 |
| W15 | 1 35 31 | 22° 0'53 | 10♌41 | 3°55 | 18°23 | 10°13 | 7°38 | 23°51 | 27°29 | 21°26 | 14°55 | 12°53 | 11° 9 | 5°59 | 29°44 | W15 |
| T 16 | 1 39 27 | 23° 0'35 | 23°18 | 4°48 | 19°37 | 10°55 | 7°41 | 23°56 | 27°31 | 21°27 | 14°54 | 12°55 | 11° 6 | 6° 6 | 29°53 | T 16 |
| F 17 | 1 43 24 | 24° 0'20 | 5♍39 | 5°48 | 20°51 | 11°38 | 7°43 | 24° 1 | 27°33 | 21°29 | 14°54 | 12°56 | 11° 3 | 6°12 | 0♏ 1 | F 17 |
| S 18 | 1 47 21 | 25° 0'06 | 17°48 | 6°55 | 22° 5 | 12°20 | 7°46 | 24° 6 | 27°35 | 21°30 | 14°53 | 12°R56 | 11° 0 | 6°19 | 0°10 | S 18 |
| S 19 | 1 51 17 | 25°59'55 | 29°49 | 8° 7 | 23°19 | 13° 3 | 7°49 | 24°11 | 27°37 | 21°32 | 14°52 | 12°54 | 10°57 | 6°26 | 0°18 | S 19 |
| M20 | 1 55 14 | 26°59'46 | 11♎45 | 9°23 | 24°33 | 13°46 | 7°52 | 24°16 | 27°39 | 21°33 | 14°52 | 12°51 | 10°53 | 6°32 | 0°27 | M20 |
| T 21 | 1 59 10 | 27°59'39 | 23°37 | 10°44 | 25°46 | 14°29 | 7°56 | 24°21 | 27°42 | 21°35 | 14°51 | 12°45 | 10°50 | 6°39 | 0°35 | T 21 |
| W22 | 2 3 7 | 28°59'34 | 5♏27 | 12° 8 | 27° 0 | 15°12 | 7°59 | 24°25 | 27°44 | 21°36 | 14°50 | 12°37 | 10°47 | 6°46 | 0°44 | W22 |
| T 23 | 2 7 3 | 29°59'31 | 17°18 | 13°35 | 28°14 | 15°55 | 8° 3 | 24°30 | 27°46 | 21°38 | 14°49 | 12°27 | 10°44 | 6°52 | 0°52 | T 23 |
| F 24 | 2 11 0 | 0♏59'30 | 29°10 | 15° 5 | 29°28 | 16°38 | 8° 7 | 24°35 | 27°49 | 21°39 | 14°49 | 12°18 | 10°41 | 6°59 | 1° 1 | F 24 |
| S 25 | 2 14 56 | 1°59'30 | 11♐ 6 | 16°36 | 0♐42 | 17°21 | 8°11 | 24°39 | 27°51 | 21°41 | 14°48 | 12° 8 | 10°37 | 7° 6 | 1° 9 | S 25 |
| S 26 | 2 18 53 | 2°59'33 | 23° 8 | 18°10 | 1°56 | 18° 5 | 8°16 | 24°43 | 27°53 | 21°43 | 14°47 | 12° 0 | 10°34 | 7°13 | 1°18 | S 26 |
| M27 | 2 22 50 | 3°59'37 | 5♑18 | 19°44 | 3°10 | 18°48 | 8°20 | 24°48 | 27°56 | 21°44 | 14°46 | 11°54 | 10°31 | 7°19 | 1°26 | M27 |
| T 28 | 2 26 46 | 4°59'43 | 17°41 | 21°19 | 4°23 | 19°32 | 8°25 | 24°52 | 27°58 | 21°46 | 14°45 | 11°50 | 10°28 | 7°26 | 1°35 | T 28 |
| W29 | 2 30 43 | 5°59'50 | 0♒20 | 22°56 | 5°37 | 20°15 | 8°30 | 24°56 | 28° 1 | 21°48 | 14°45 | 11°D48 | 10°25 | 7°33 | 1°43 | W29 |
| T 30 | 2 34 39 | 6°59'59 | 13°18 | 24°32 | 6°51 | 20°59 | 8°35 | 25° 0 | 28° 3 | 21°49 | 14°44 | 11°48 | 10°22 | 7°39 | 1°52 | T 30 |
| F 31 | 2 38 36 | 8♏ 0'09 | 26♒41 | 26♎10 | 8♐ 5 | 21♑43 | 8♒40 | 25♌ 4 | 28♐ 6 | 21♐51 | 14♊43 | 11♓49 | 10♓18 | 7♏46 | 2♏ 0 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s14 | 25s49 | 4s 7 | 5s11 | 2s 7 | 11s37 | 0n17 | 25s49 | 2s20 | 19s23 | 0s58 | 15n 3 | 1n 4 | 23s41 | 0s14 | 21s56 | 1n16 | 13n24 | 9s18 | 6s37 | 7s 7 | 16s52 | 10s22 | 0n21 |
| T 2 | 3 38 | 22 19 | 3 16 | 4 26 | 1 48 | 12 6 | 0 14 | 25 48 | 2 19 | 19 23 | 0 58 | 15 1 | 1 5 | 23 41 | 0 14 | 21 56 | 1 16 | 13 23 | 9 19 | 6 36 | 7 8 | 16 55 | 10 25 | 0 22 |
| F 3 | 4 1 | 17 31 | 2 13 | 3 41 | 1 28 | 12 33 | 0 11 | 25 47 | 2 18 | 19 23 | 0 58 | 14 59 | 1 5 | 23 41 | 0 14 | 21 56 | 1 16 | 13 23 | 9 19 | 6 35 | 7 9 | 16 57 | 10 28 | 0 22 |
| S 4 | 4 24 | 11 39 | 1 1 | 2 58 | 1 8 | 13 1 | 0 9 | 25 45 | 2 18 | 19 23 | 0 58 | 14 57 | 1 5 | 23 41 | 0 14 | 21 56 | 1 16 | 13 23 | 9 19 | 6 35 | 7 10 | 17 0 | 10 30 | 0 22 |
| S 5 | 4 47 | 5 0 | 0n18 | 2 17 | 0 47 | 13 28 | 0 6 | 25 43 | 2 17 | 19 23 | 0 58 | 14 56 | 1 5 | 23 41 | 0 14 | 21 56 | 1 16 | 13 23 | 9 19 | 6 35 | 7 12 | 17 3 | 10 33 | 0 23 |
| M 6 | 5 11 | 2n 5 | 1 38 | 1 40 | 0 27 | 13 55 | 0 3 | 25 42 | 2 16 | 19 23 | 0 58 | 14 54 | 1 5 | 23 41 | 0 14 | 21 56 | 1 16 | 13 23 | 9 19 | 6 35 | 7 13 | 17 6 | 10 36 | 0 23 |
| T 7 | 5 34 | 9 10 | 2 52 | 1 7 | 0 7 | 14 22 | 0 1 | 25 39 | 2 15 | 19 23 | 0 58 | 14 52 | 1 5 | 23 42 | 0 14 | 21 57 | 1 15 | 13 22 | 9 19 | 6 36 | 7 14 | 17 8 | 10 38 | 0 23 |
| W 8 | 5 57 | 15 46 | 3 54 | 0 40 | 0n11 | 14 48 | 0s 2 | 25 37 | 2 14 | 19 22 | 0 57 | 14 50 | 1 6 | 23 42 | 0 14 | 21 57 | 1 15 | 13 22 | 9 19 | 6 38 | 7 15 | 17 11 | 10 41 | 0 23 |
| T 9 | 6 20 | 21 24 | 4 40 | 0 17 | 0 29 | 15 14 | 0 5 | 25 34 | 2 13 | 19 22 | 0 57 | 14 49 | 1 6 | 23 42 | 0 14 | 21 57 | 1 15 | 13 22 | 9 20 | 6 39 | 7 17 | 17 14 | 10 44 | 0 24 |
| F 10 | 6 43 | 25 34 | 5 6 | 0 0 | 0 45 | 15 39 | 0 8 | 25 31 | 2 13 | 19 22 | 0 57 | 14 47 | 1 6 | 23 42 | 0 14 | 21 57 | 1 15 | 13 22 | 9 20 | 6 41 | 7 18 | 17 17 | 10 47 | 0 24 |
| S 11 | 7 5 | 27 57 | 5 11 | 0n11 | 1 0 | 16 4 | 0 10 | 25 28 | 2 12 | 19 21 | 0 57 | 14 45 | 1 6 | 23 42 | 0 14 | 21 57 | 1 15 | 13 22 | 9 20 | 6 43 | 7 19 | 17 19 | 10 49 | 0 24 |
| S 12 | 7 28 | 28 26 | 4 57 | 0 16 | 1 13 | 16 29 | 0 13 | 25 25 | 2 11 | 19 21 | 0 57 | 14 44 | 1 6 | 23 42 | 0 14 | 21 57 | 1 15 | 13 21 | 9 20 | 6 44 | 7 20 | 17 22 | 10 52 | 0 25 |
| M13 | 7 51 | 27 6 | 4 26 | 0 16 | 1 25 | 16 53 | 0 16 | 25 21 | 2 10 | 19 20 | 0 57 | 14 42 | 1 6 | 23 42 | 0 14 | 21 57 | 1 15 | 13 21 | 9 20 | 6 45 | 7 21 | 17 25 | 10 55 | 0 25 |
| T 14 | 8 13 | 24 16 | 3 41 | 0 11 | 1 35 | 17 17 | 0 19 | 25 18 | 2 9 | 19 19 | 0 57 | 14 40 | 1 7 | 23 42 | 0 14 | 21 57 | 1 15 | 13 21 | 9 20 | 6 45 | 7 23 | 17 28 | 10 58 | 0 25 |
| W15 | 8 35 | 20 15 | 2 46 | 0 1 | 1 43 | 17 41 | 0 21 | 25 14 | 2 8 | 19 19 | 0 57 | 14 39 | 1 7 | 23 42 | 0 14 | 21 58 | 1 15 | 13 21 | 9 20 | 6 44 | 7 24 | 17 30 | 11 0 | 0 25 |
| T 16 | 8 58 | 15 26 | 1 45 | 0s14 | 1 50 | 18 4 | 0 24 | 25 9 | 2 8 | 19 18 | 0 57 | 14 37 | 1 7 | 23 42 | 0 14 | 21 58 | 1 15 | 13 21 | 9 20 | 6 44 | 7 25 | 17 33 | 11 3 | 0 26 |
| F 17 | 9 20 | 10 4 | 0 40 | 0 32 | 1 56 | 18 26 | 0 27 | 25 5 | 2 7 | 19 17 | 0 57 | 14 36 | 1 7 | 23 42 | 0 14 | 21 58 | 1 15 | 13 21 | 9 21 | 6 43 | 7 26 | 17 36 | 11 6 | 0 26 |
| S 18 | 9 42 | 4 25 | 0s26 | 0 55 | 2 0 | 18 48 | 0 30 | 25 0 | 2 6 | 19 16 | 0 57 | 14 34 | 1 7 | 23 42 | 0 14 | 21 58 | 1 15 | 13 20 | 9 21 | 6 43 | 7 27 | 17 39 | 11 8 | 0 26 |
| S 19 | 10 4 | 1s18 | 1 30 | 1 20 | 2 3 | 19 10 | 0 33 | 24 55 | 2 5 | 19 16 | 0 57 | 14 33 | 1 7 | 23 42 | 0 14 | 21 58 | 1 15 | 13 20 | 9 21 | 6 44 | 7 29 | 17 41 | 11 11 | 0 27 |
| M20 | 10 25 | 6 57 | 2 29 | 1 49 | 2 5 | 19 31 | 0 35 | 24 50 | 2 4 | 19 15 | 0 56 | 14 31 | 1 8 | 23 42 | 0 14 | 21 58 | 1 15 | 13 20 | 9 21 | 6 45 | 7 30 | 17 44 | 11 14 | 0 27 |
| T 21 | 10 47 | 12 18 | 3 22 | 2 20 | 2 6 | 19 51 | 0 38 | 24 44 | 2 3 | 19 14 | 0 56 | 14 30 | 1 8 | 23 42 | 0 14 | 21 58 | 1 15 | 13 20 | 9 21 | 6 47 | 7 31 | 17 47 | 11 17 | 0 27 |
| W22 | 11 8 | 17 13 | 4 5 | 2 53 | 2 6 | 20 11 | 0 41 | 24 39 | 2 2 | 19 13 | 0 56 | 14 29 | 1 8 | 23 42 | 0 14 | 21 59 | 1 15 | 13 20 | 9 21 | 6 50 | 7 32 | 17 50 | 11 19 | 0 27 |
| T 23 | 11 29 | 21 28 | 4 38 | 3 27 | 2 5 | 20 31 | 0 44 | 24 33 | 2 1 | 19 12 | 0 56 | 14 27 | 1 8 | 23 42 | 0 14 | 21 59 | 1 15 | 13 19 | 9 21 | 6 54 | 7 33 | 17 52 | 11 22 | 0 28 |
| F 24 | 11 51 | 24 52 | 4 58 | 4 3 | 2 3 | 20 50 | 0 46 | 24 26 | 2 0 | 19 10 | 0 56 | 14 26 | 1 8 | 23 42 | 0 14 | 21 59 | 1 15 | 13 19 | 9 21 | 6 58 | 7 35 | 17 55 | 11 25 | 0 28 |
| S 25 | 12 11 | 27 12 | 5 6 | 4 41 | 2 1 | 21 8 | 0 49 | 24 20 | 1 59 | 19 9 | 0 56 | 14 25 | 1 9 | 23 42 | 0 14 | 21 59 | 1 15 | 13 19 | 9 21 | 7 1 | 7 36 | 17 58 | 11 27 | 0 28 |
| S 26 | 12 32 | 28 19 | 5 1 | 5 19 | 1 58 | 21 26 | 0 52 | 24 13 | 1 59 | 19 8 | 0 56 | 14 23 | 1 9 | 23 42 | 0 14 | 21 59 | 1 15 | 13 19 | 9 22 | 7 4 | 7 37 | 18 0 | 11 30 | 0 29 |
| M27 | 12 52 | 28 4 | 4 41 | 5 58 | 1 54 | 21 43 | 0 55 | 24 6 | 1 58 | 19 7 | 0 56 | 14 22 | 1 9 | 23 42 | 0 14 | 21 59 | 1 15 | 13 19 | 9 22 | 7 7 | 7 38 | 18 3 | 11 33 | 0 29 |
| T 28 | 13 13 | 26 25 | 4 9 | 6 38 | 1 50 | 22 0 | 0 57 | 23 59 | 1 57 | 19 5 | 0 56 | 14 21 | 1 9 | 23 42 | 0 14 | 21 59 | 1 15 | 13 18 | 9 22 | 7 8 | 7 39 | 18 6 | 11 35 | 0 29 |
| W29 | 13 33 | 23 26 | 3 23 | 7 18 | 1 46 | 22 16 | 1 0 | 23 52 | 1 56 | 19 4 | 0 56 | 14 20 | 1 9 | 23 42 | 0 14 | 22 0 | 1 15 | 13 18 | 9 22 | 7 9 | 7 41 | 18 8 | 11 38 | 0 29 |
| T 30 | 13 53 | 19 12 | 2 27 | 7 58 | 1 41 | 22 31 | 1 2 | 23 44 | 1 55 | 19 3 | 0 56 | 14 18 | 1 10 | 23 42 | 0 14 | 22 0 | 1 15 | 13 18 | 9 22 | 7 9 | 7 42 | 18 11 | 11 41 | 0 30 |
| F 31 | 14s12 | 13s54 | 1s20 | 8s38 | 1n36 | 22s46 | 1s 5 | 23s36 | 1s54 | 19s 1 | 0s55 | 14n17 | 1n10 | 23s42 | 0s14 | 22s 0 | 1n14 | 13n18 | 9s22 | 7s 9 | 7s43 | 18s14 | 11s43 | 0n30 |

Julian Day Number = 2325079.5, Delta T = 40.70 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'26, Lahiri = 19°01'27Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## NOVEMBER 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 42 32 | 9♏ 0'21 | 10♓30 | 27♎47 | 9♐19 | 22♑26 | 8♒46 | 25♌ 8 | 28♐ 9 | 21♐53 | 14°R42 | 11°R50 | 10♓15 | 7♏53 | 2♏ 9 | S 1 |
| S 2 | 2 46 29 | 10° 0'34 | 24°47 | 29°25 | 10°32 | 23°10 | 8°51 | 25°11 | 28°11 | 21°55 | 14♊41 | 11♓49 | 10°12 | 7°59 | 2°17 | S 2 |
| M 3 | 2 50 25 | 11° 0'49 | 9♈30 | 1♏ 2 | 11°46 | 23°54 | 8°57 | 25°15 | 28°14 | 21°56 | 14°40 | 11°46 | 10° 9 | 8° 6 | 2°26 | M 3 |
| T 4 | 2 54 22 | 12° 1'06 | 24°35 | 2°40 | 13° 0 | 24°38 | 9° 3 | 25°19 | 28°17 | 21°58 | 14°39 | 11°41 | 10° 6 | 8°13 | 2°34 | T 4 |
| W 5 | 2 58 19 | 13° 1'24 | 9♉53 | 4°18 | 14°13 | 25°22 | 9° 9 | 25°22 | 28°19 | 22° 0 | 14°38 | 11°33 | 10° 2 | 8°20 | 2°43 | W 5 |
| T 6 | 3 2 15 | 14° 1'44 | 25°13 | 5°55 | 15°27 | 26° 6 | 9°15 | 25°25 | 28°22 | 22° 2 | 14°37 | 11°24 | 9°59 | 8°26 | 2°51 | T 6 |
| F 7 | 3 6 12 | 15° 2'06 | 10♊24 | 7°32 | 16°41 | 26°50 | 9°22 | 25°29 | 28°25 | 22° 4 | 14°36 | 11°14 | 9°56 | 8°33 | 2°59 | F 7 |
| S 8 | 3 10 8 | 16° 2'29 | 25°16 | 9° 9 | 17°54 | 27°35 | 9°28 | 25°32 | 28°28 | 22° 6 | 14°35 | 11° 5 | 9°53 | 8°40 | 3° 8 | S 8 |
| S 9 | 3 14 5 | 17° 2'55 | 9♋41 | 10°46 | 19° 8 | 28°19 | 9°35 | 25°35 | 28°31 | 22° 8 | 14°34 | 10°57 | 9°50 | 8°46 | 3°16 | S 9 |
| M10 | 3 18 1 | 18° 3'22 | 23°36 | 12°23 | 20°22 | 29° 3 | 9°42 | 25°38 | 28°34 | 22°10 | 14°33 | 10°53 | 9°47 | 8°53 | 3°25 | M10 |
| T 11 | 3 21 58 | 19° 3'51 | 7♌ 1 | 14° 0 | 21°35 | 29°48 | 9°49 | 25°41 | 28°37 | 22°12 | 14°32 | 10°50 | 9°43 | 9° 0 | 3°33 | T 11 |
| W12 | 3 25 54 | 20° 4'22 | 19°58 | 15°36 | 22°49 | 0♒32 | 9°56 | 25°43 | 28°40 | 22°14 | 14°31 | 10°D49 | 9°40 | 9° 6 | 3°41 | W12 |
| T 13 | 3 29 51 | 21° 4'55 | 2♍33 | 17°12 | 24° 2 | 1°17 | 10° 4 | 25°46 | 28°43 | 22°16 | 14°30 | 10°50 | 9°37 | 9°13 | 3°49 | T 13 |
| F 14 | 3 33 48 | 22° 5'30 | 14°49 | 18°48 | 25°16 | 2° 1 | 10°11 | 25°48 | 28°46 | 22°18 | 14°29 | 10°R50 | 9°34 | 9°20 | 3°58 | F 14 |
| S 15 | 3 37 44 | 23° 6'06 | 26°52 | 20°23 | 26°29 | 2°46 | 10°19 | 25°51 | 28°49 | 22°20 | 14°28 | 10°48 | 9°31 | 9°27 | 4° 6 | S 15 |
| S 16 | 3 41 41 | 24° 6'44 | 8♎47 | 21°59 | 27°43 | 3°30 | 10°27 | 25°53 | 28°52 | 22°22 | 14°27 | 10°45 | 9°28 | 9°33 | 4°14 | S 16 |
| M17 | 3 45 37 | 25° 7'24 | 20°38 | 23°34 | 28°56 | 4°15 | 10°35 | 25°55 | 28°55 | 22°24 | 14°26 | 10°39 | 9°24 | 9°40 | 4°22 | M17 |
| T 18 | 3 49 34 | 26° 8'05 | 2♏27 | 25° 9 | 0♑10 | 5° 0 | 10°43 | 25°58 | 28°58 | 22°26 | 14°25 | 10°29 | 9°21 | 9°47 | 4°31 | T 18 |
| W19 | 3 53 30 | 27° 8'48 | 14°17 | 26°44 | 1°23 | 5°44 | 10°51 | 26° 0 | 29° 1 | 22°28 | 14°24 | 10°17 | 9°18 | 9°53 | 4°39 | W19 |
| T 20 | 3 57 27 | 28° 9'32 | 26°11 | 28°18 | 2°36 | 6°29 | 11° 0 | 26° 2 | 29° 5 | 22°30 | 14°22 | 10° 3 | 9°15 | 10° 0 | 4°47 | T 20 |
| F 21 | 4 1 23 | 29°10'18 | 8♐10 | 29°53 | 3°50 | 7°14 | 11° 8 | 26° 3 | 29° 8 | 22°32 | 14°21 | 9°48 | 9°12 | 10° 7 | 4°55 | F 21 |
| S 22 | 4 5 20 | 0♐11'05 | 20°14 | 1♐27 | 5° 3 | 7°59 | 11°17 | 26° 5 | 29°11 | 22°34 | 14°20 | 9°34 | 9° 8 | 10°13 | 5° 3 | S 22 |
| S 23 | 4 9 17 | 1°11'53 | 2♑24 | 3° 1 | 6°16 | 8°44 | 11°26 | 26° 7 | 29°14 | 22°36 | 14°19 | 9°21 | 9° 5 | 10°20 | 5°11 | S 23 |
| M24 | 4 13 13 | 2°12'43 | 14°43 | 4°35 | 7°30 | 9°29 | 11°35 | 26° 8 | 29°18 | 22°39 | 14°18 | 9°11 | 9° 2 | 10°27 | 5°19 | M24 |
| T 25 | 4 17 10 | 3°13'33 | 27°12 | 6°10 | 8°43 | 10°14 | 11°44 | 26° 9 | 29°21 | 22°41 | 14°17 | 9° 4 | 8°59 | 10°34 | 5°27 | T 25 |
| W26 | 4 21 6 | 4°14'24 | 9♒53 | 7°44 | 9°56 | 10°58 | 11°53 | 26°11 | 29°24 | 22°43 | 14°16 | 9° 0 | 8°56 | 10°40 | 5°35 | W26 |
| T 27 | 4 25 3 | 5°15'17 | 22°50 | 9°17 | 11° 9 | 11°44 | 12° 3 | 26°12 | 29°28 | 22°45 | 14°15 | 8°58 | 8°53 | 10°47 | 5°42 | T 27 |
| F 28 | 4 28 59 | 6°16'10 | 6♓ 6 | 10°51 | 12°22 | 12°29 | 12°12 | 26°13 | 29°31 | 22°47 | 14°13 | 8°58 | 8°49 | 10°54 | 5°50 | F 28 |
| S 29 | 4 32 56 | 7°17'03 | 19°44 | 12°25 | 13°35 | 13°14 | 12°22 | 26°14 | 29°34 | 22°49 | 14°12 | 8°57 | 8°46 | 11° 0 | 5°58 | S 29 |
| S 30 | 4 36 52 | 8♐17'58 | 3♈46 | 13♐59 | 14♑48 | 13♒59 | 12♒32 | 26♌15 | 29♐38 | 22♐52 | 14♊11 | 8♓56 | 8♓43 | 11♏ 7 | 6♏ 6 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s32 | 7s45 | 0s 7 | 9s18 | 1n30 | 23s 0 | 1s 8 | 23s28 | 1s53 | 19s 0 | 0s55 | 14n16 | 1n10 | 23s42 | 0s14 | 22s 0 | 1n14 | 13n18 | 9s22 | 7s 8 | 7s44 | 18s16 | 11s46 | 0n30 |
| S 2 | 14 51 | 1 2 | 1n 9 | 9 58 | 1 25 | 23 14 | 1 10 | 23 20 | 1 52 | 18 58 | 0 55 | 14 15 | 1 10 | 23 42 | 0 14 | 22 0 | 1 14 | 13 18 | 9 22 | 7 9 | 7 46 | 18 19 | 11 49 | 0 31 |
| M 3 | 15 10 | 5n57 | 2 22 | 10 38 | 1 19 | 23 27 | 1 13 | 23 11 | 1 51 | 18 57 | 0 55 | 14 14 | 1 10 | 23 42 | 0 14 | 22 0 | 1 14 | 13 17 | 9 22 | 7 10 | 7 47 | 18 22 | 11 51 | 0 31 |
| T 4 | 15 28 | 12 45 | 3 27 | 11 17 | 1 13 | 23 39 | 1 15 | 23 3 | 1 50 | 18 55 | 0 55 | 14 13 | 1 11 | 23 42 | 0 14 | 22 0 | 1 14 | 13 17 | 9 22 | 7 12 | 7 48 | 18 24 | 11 54 | 0 31 |
| W 5 | 15 47 | 18 53 | 4 19 | 11 56 | 1 6 | 23 50 | 1 18 | 22 54 | 1 49 | 18 53 | 0 55 | 14 12 | 1 11 | 23 43 | 0 14 | 22 1 | 1 14 | 13 17 | 9 22 | 7 15 | 7 49 | 18 27 | 11 57 | 0 32 |
| T 6 | 16 5 | 23 49 | 4 51 | 12 35 | 1 0 | 24 1 | 1 20 | 22 44 | 1 48 | 18 51 | 0 55 | 14 11 | 1 11 | 23 43 | 0 14 | 22 1 | 1 14 | 13 17 | 9 22 | 7 18 | 7 50 | 18 30 | 11 59 | 0 32 |
| F 7 | 16 23 | 27 3 | 5 3 | 13 13 | 0 53 | 24 11 | 1 22 | 22 35 | 1 47 | 18 50 | 0 55 | 14 10 | 1 11 | 23 43 | 0 14 | 22 1 | 1 14 | 13 17 | 9 23 | 7 22 | 7 52 | 18 32 | 12 2 | 0 32 |
| S 8 | 16 40 | 28 18 | 4 54 | 13 50 | 0 47 | 24 20 | 1 25 | 22 25 | 1 46 | 18 48 | 0 55 | 14 9 | 1 11 | 23 43 | 0 14 | 22 1 | 1 14 | 13 17 | 9 23 | 7 25 | 7 53 | 18 35 | 12 4 | 0 32 |
| S 9 | 16 58 | 27 34 | 4 26 | 14 27 | 0 40 | 24 29 | 1 27 | 22 15 | 1 45 | 18 46 | 0 55 | 14 9 | 1 12 | 23 43 | 0 14 | 22 1 | 1 14 | 13 16 | 9 23 | 7 28 | 7 54 | 18 37 | 12 7 | 0 33 |
| M10 | 17 15 | 25 5 | 3 44 | 15 3 | 0 33 | 24 37 | 1 29 | 22 5 | 1 44 | 18 44 | 0 55 | 14 8 | 1 12 | 23 43 | 0 14 | 22 1 | 1 14 | 13 16 | 9 23 | 7 30 | 7 55 | 18 40 | 12 10 | 0 33 |
| T 11 | 17 31 | 21 17 | 2 50 | 15 39 | 0 27 | 24 44 | 1 31 | 21 55 | 1 43 | 18 42 | 0 55 | 14 7 | 1 12 | 23 43 | 0 14 | 22 1 | 1 14 | 13 16 | 9 23 | 7 31 | 7 56 | 18 43 | 12 12 | 0 33 |
| W12 | 17 48 | 16 34 | 1 49 | 16 14 | 0 20 | 24 51 | 1 33 | 21 44 | 1 42 | 18 40 | 0 54 | 14 6 | 1 12 | 23 43 | 0 14 | 22 2 | 1 14 | 13 16 | 9 23 | 7 31 | 7 58 | 18 45 | 12 15 | 0 34 |
| T 13 | 18 4 | 11 16 | 0 44 | 16 48 | 0 13 | 24 56 | 1 35 | 21 34 | 1 41 | 18 38 | 0 54 | 14 6 | 1 12 | 23 43 | 0 14 | 22 2 | 1 14 | 13 16 | 9 23 | 7 31 | 7 59 | 18 48 | 12 17 | 0 34 |
| F 14 | 18 20 | 5 40 | 0s21 | 17 21 | 0 6 | 25 1 | 1 37 | 21 23 | 1 40 | 18 36 | 0 54 | 14 5 | 1 13 | 23 43 | 0 14 | 22 2 | 1 14 | 13 16 | 9 23 | 7 31 | 8 0 | 18 51 | 12 20 | 0 34 |
| S 15 | 18 35 | 0s 2 | 1 24 | 17 53 | 0s 1 | 25 6 | 1 39 | 21 11 | 1 39 | 18 34 | 0 54 | 14 4 | 1 13 | 23 43 | 0 14 | 22 2 | 1 14 | 13 15 | 9 23 | 7 32 | 8 1 | 18 53 | 12 22 | 0 35 |
| S 16 | 18 50 | 5 40 | 2 22 | 18 25 | 0 7 | 25 9 | 1 41 | 21 0 | 1 38 | 18 31 | 0 54 | 14 4 | 1 13 | 23 43 | 0 14 | 22 2 | 1 14 | 13 15 | 9 23 | 7 33 | 8 2 | 18 56 | 12 25 | 0 35 |
| M17 | 19 5 | 11 4 | 3 14 | 18 56 | 0 14 | 25 12 | 1 43 | 20 48 | 1 37 | 18 29 | 0 54 | 14 3 | 1 13 | 23 43 | 0 14 | 22 2 | 1 14 | 13 15 | 9 23 | 7 35 | 8 3 | 18 58 | 12 27 | 0 35 |
| T 18 | 19 19 | 16 3 | 3 57 | 19 25 | 0 21 | 25 14 | 1 45 | 20 37 | 1 36 | 18 27 | 0 54 | 14 3 | 1 14 | 23 43 | 0 14 | 22 2 | 1 14 | 13 15 | 9 23 | 7 39 | 8 5 | 19 1 | 12 30 | 0 35 |
| W19 | 19 34 | 20 27 | 4 30 | 19 54 | 0 27 | 25 15 | 1 47 | 20 25 | 1 35 | 18 24 | 0 54 | 14 2 | 1 14 | 23 43 | 0 14 | 22 3 | 1 14 | 13 15 | 9 23 | 7 44 | 8 6 | 19 3 | 12 32 | 0 36 |
| T 20 | 19 47 | 24 3 | 4 51 | 20 22 | 0 34 | 25 16 | 1 48 | 20 12 | 1 34 | 18 22 | 0 54 | 14 2 | 1 14 | 23 43 | 0 14 | 22 3 | 1 14 | 13 15 | 9 23 | 7 49 | 8 7 | 19 6 | 12 34 | 0 36 |
| F 21 | 20 1 | 26 38 | 4 59 | 20 49 | 0 40 | 25 16 | 1 50 | 20 0 | 1 33 | 18 20 | 0 54 | 14 1 | 1 14 | 23 43 | 0 14 | 22 3 | 1 14 | 13 15 | 9 23 | 7 54 | 8 8 | 19 9 | 12 37 | 0 36 |
| S 22 | 20 14 | 28 1 | 4 55 | 21 15 | 0 46 | 25 15 | 1 51 | 19 47 | 1 32 | 18 17 | 0 54 | 14 1 | 1 14 | 23 43 | 0 14 | 22 3 | 1 14 | 13 14 | 9 23 | 8 0 | 8 9 | 19 11 | 12 39 | 0 37 |
| S 23 | 20 26 | 28 4 | 4 36 | 21 39 | 0 52 | 25 13 | 1 53 | 19 35 | 1 31 | 18 15 | 0 54 | 14 1 | 1 15 | 23 43 | 0 14 | 22 3 | 1 14 | 13 14 | 9 23 | 8 5 | 8 11 | 19 14 | 12 42 | 0 37 |
| M24 | 20 39 | 26 44 | 4 5 | 22 3 | 0 58 | 25 10 | 1 54 | 19 22 | 1 30 | 18 12 | 0 54 | 14 0 | 1 15 | 23 43 | 0 14 | 22 3 | 1 14 | 13 14 | 9 23 | 8 9 | 8 12 | 19 16 | 12 44 | 0 37 |
| T 25 | 20 51 | 24 3 | 3 21 | 22 26 | 1 4 | 25 7 | 1 55 | 19 9 | 1 29 | 18 9 | 0 54 | 14 0 | 1 15 | 23 43 | 0 14 | 22 3 | 1 14 | 13 14 | 9 23 | 8 11 | 8 13 | 19 19 | 12 46 | 0 38 |
| W26 | 21 2 | 20 10 | 2 27 | 22 47 | 1 10 | 25 3 | 1 57 | 18 55 | 1 28 | 18 7 | 0 53 | 14 0 | 1 15 | 23 43 | 0 14 | 22 4 | 1 14 | 13 14 | 9 23 | 8 13 | 8 14 | 19 21 | 12 49 | 0 38 |
| T 27 | 21 13 | 15 15 | 1 24 | 23 8 | 1 15 | 24 58 | 1 58 | 18 42 | 1 27 | 18 4 | 0 53 | 14 0 | 1 16 | 23 43 | 0 14 | 22 4 | 1 14 | 13 14 | 9 23 | 8 13 | 8 15 | 19 24 | 12 51 | 0 38 |
| F 28 | 21 24 | 9 32 | 0 15 | 23 27 | 1 21 | 24 53 | 1 59 | 18 28 | 1 26 | 18 1 | 0 53 | 14 0 | 1 16 | 23 43 | 0 14 | 22 4 | 1 14 | 13 14 | 9 23 | 8 14 | 8 17 | 19 26 | 12 53 | 0 39 |
| S 29 | 21 34 | 3 12 | 0n57 | 23 45 | 1 26 | 24 47 | 2 0 | 18 14 | 1 25 | 17 59 | 0 53 | 13 59 | 1 16 | 23 43 | 0 14 | 22 4 | 1 14 | 13 14 | 9 23 | 8 14 | 8 18 | 19 29 | 12 55 | 0 39 |
| S 30 | 21s44 | 3n26 | 2n 7 | 24s 2 | 1s31 | 24s40 | 2s 1 | 18s 0 | 1s24 | 17s56 | 0s53 | 13n59 | 1n16 | 23s43 | 0s14 | 22s 4 | 1n14 | 13n14 | 9s23 | 8s14 | 8s19 | 19s31 | 12s58 | 0n39 |

Julian Day Number = 2325110.5, Delta T = 40.64 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'31, Lahiri = 19°01'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1653
# geocentric

## DECEMBER 1653 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 40 49 | 9♐18'53 | 18♈12 | 15♐33 | 16♑ 1 | 14♒44 | 12♒42 | 26♌15 | 29♐41 | 22♐54 | 14°R10 | 8°R53 | 8♓40 | 11♏14 | 6♏13 | M 1 |
| T 2 | 4 44 46 | 10°19'49 | 3♉ 0 | 17° 7 | 17°14 | 15°29 | 12°52 | 26°16 | 29°45 | 22°56 | 14♊ 9 | 8♓46 | 8°37 | 11°21 | 6°21 | T 2 |
| W 3 | 4 48 42 | 11°20'46 | 18° 4 | 18°41 | 18°27 | 16°14 | 13° 2 | 26°16 | 29°48 | 22°58 | 14° 8 | 8°37 | 8°34 | 11°27 | 6°28 | W 3 |
| T 4 | 4 52 39 | 12°21'44 | 3♊15 | 20°14 | 19°40 | 16°59 | 13°12 | 26°17 | 29°52 | 23° 1 | 14° 6 | 8°26 | 8°30 | 11°34 | 6°36 | T 4 |
| F 5 | 4 56 35 | 13°22'43 | 18°22 | 21°48 | 20°53 | 17°44 | 13°22 | 26°17 | 29°55 | 23° 3 | 14° 5 | 8°14 | 8°27 | 11°41 | 6°43 | F 5 |
| S 6 | 5 0 32 | 14°23'42 | 3♋16 | 23°22 | 22° 6 | 18°30 | 13°33 | 26°17 | 29°59 | 23° 5 | 14° 4 | 8° 3 | 8°24 | 11°47 | 6°51 | S 6 |
| S 7 | 5 4 28 | 15°24'43 | 17°46 | 24°56 | 23°18 | 19°15 | 13°44 | 26°R17 | 0♑ 2 | 23° 7 | 14° 3 | 7°53 | 8°21 | 11°54 | 6°58 | S 7 |
| M 8 | 5 8 25 | 16°25'44 | 1♌49 | 26°30 | 24°31 | 20° 0 | 13°54 | 26°17 | 0° 6 | 23°10 | 14° 2 | 7°46 | 8°18 | 12° 1 | 7° 5 | M 8 |
| T 9 | 5 12 22 | 17°26'46 | 15°22 | 28° 4 | 25°44 | 20°45 | 14° 5 | 26°17 | 0° 9 | 23°12 | 14° 1 | 7°42 | 8°14 | 12° 8 | 7°13 | T 9 |
| W10 | 5 16 18 | 18°27'50 | 28°27 | 29°38 | 26°56 | 21°30 | 14°16 | 26°16 | 0°13 | 23°14 | 14° 0 | 7°41 | 8°11 | 12°14 | 7°20 | W10 |
| T 11 | 5 20 15 | 19°28'54 | 11♍ 6 | 1♑12 | 28° 9 | 22°16 | 14°27 | 26°16 | 0°16 | 23°16 | 13°58 | 7°D40 | 8° 8 | 12°21 | 7°27 | T 11 |
| F 12 | 5 24 11 | 20°29'59 | 23°25 | 2°45 | 29°21 | 23° 1 | 14°38 | 26°15 | 0°20 | 23°19 | 13°57 | 7°R40 | 8° 5 | 12°28 | 7°34 | F 12 |
| S 13 | 5 28 8 | 21°31'05 | 5♎29 | 4°19 | 0♒34 | 23°46 | 14°49 | 26°15 | 0°23 | 23°21 | 13°56 | 7°40 | 8° 2 | 12°34 | 7°41 | S 13 |
| S 14 | 5 32 4 | 22°32'12 | 17°23 | 5°52 | 1°46 | 24°31 | 15° 1 | 26°14 | 0°27 | 23°23 | 13°55 | 7°37 | 7°59 | 12°41 | 7°48 | S 14 |
| M15 | 5 36 1 | 23°33'20 | 29°12 | 7°25 | 2°58 | 25°17 | 15°12 | 26°13 | 0°31 | 23°25 | 13°54 | 7°31 | 7°55 | 12°48 | 7°55 | M15 |
| T 16 | 5 39 57 | 24°34'28 | 11♏ 2 | 8°58 | 4°10 | 26° 2 | 15°24 | 26°12 | 0°34 | 23°28 | 13°53 | 7°23 | 7°52 | 12°54 | 8° 2 | T 16 |
| W17 | 5 43 54 | 25°35'37 | 22°54 | 10°30 | 5°22 | 26°47 | 15°35 | 26°11 | 0°38 | 23°30 | 13°51 | 7°12 | 7°49 | 13° 1 | 8° 8 | W17 |
| T 18 | 5 47 51 | 26°36'47 | 4♐53 | 12° 2 | 6°35 | 27°32 | 15°47 | 26°10 | 0°41 | 23°32 | 13°50 | 6°59 | 7°46 | 13° 8 | 8°15 | T 18 |
| F 19 | 5 51 47 | 27°37'57 | 16°59 | 13°33 | 7°47 | 28°18 | 15°59 | 26° 9 | 0°45 | 23°34 | 13°49 | 6°46 | 7°43 | 13°15 | 8°22 | F 19 |
| S 20 | 5 55 44 | 28°39'08 | 29°15 | 15° 3 | 8°59 | 29° 3 | 16°11 | 26° 7 | 0°49 | 23°37 | 13°48 | 6°32 | 7°40 | 13°21 | 8°28 | S 20 |
| S 21 | 5 59 40 | 29°40'19 | 11♑39 | 16°32 | 10°10 | 29°48 | 16°23 | 26° 6 | 0°52 | 23°39 | 13°47 | 6°20 | 7°36 | 13°28 | 8°35 | S 21 |
| M22 | 6 3 37 | 0♑41'30 | 24°14 | 18° 0 | 11°22 | 0♓34 | 16°35 | 26° 4 | 0°56 | 23°41 | 13°46 | 6°11 | 7°33 | 13°35 | 8°41 | M22 |
| T 23 | 6 7 33 | 1°42'41 | 6♒58 | 19°26 | 12°34 | 1°19 | 16°47 | 26° 2 | 0°59 | 23°44 | 13°45 | 6° 4 | 7°30 | 13°41 | 8°48 | T 23 |
| W24 | 6 11 30 | 2°43'53 | 19°53 | 20°51 | 13°45 | 2° 4 | 16°59 | 26° 0 | 1° 3 | 23°46 | 13°44 | 6° 1 | 7°27 | 13°48 | 8°54 | W24 |
| T 25 | 6 15 26 | 3°45'04 | 3♓ 1 | 22°13 | 14°57 | 2°49 | 17°11 | 25°58 | 1° 7 | 23°48 | 13°43 | 5°D59 | 7°24 | 13°55 | 9° 0 | T 25 |
| F 26 | 6 19 23 | 4°46'15 | 16°22 | 23°32 | 16° 8 | 3°35 | 17°24 | 25°56 | 1°10 | 23°50 | 13°41 | 6° 0 | 7°20 | 14° 2 | 9° 6 | F 26 |
| S 27 | 6 23 20 | 5°47'26 | 29°58 | 24°48 | 17°20 | 4°20 | 17°36 | 25°54 | 1°14 | 23°53 | 13°40 | 6°R 0 | 7°17 | 14° 8 | 9°12 | S 27 |
| S 28 | 6 27 16 | 6°48'36 | 13♈51 | 26° 0 | 18°31 | 5° 5 | 17°49 | 25°52 | 1°18 | 23°55 | 13°39 | 6° 0 | 7°14 | 14°15 | 9°18 | S 28 |
| M29 | 6 31 13 | 7°49'47 | 28° 2 | 27° 8 | 19°42 | 5°51 | 18° 2 | 25°50 | 1°21 | 23°57 | 13°38 | 5°58 | 7°11 | 14°22 | 9°24 | M29 |
| T 30 | 6 35 9 | 8°50'57 | 12♉28 | 28°11 | 20°53 | 6°36 | 18°14 | 25°47 | 1°25 | 23°59 | 13°37 | 5°54 | 7° 8 | 14°28 | 9°30 | T 30 |
| W31 | 6 39 6 | 9♑52'06 | 27♉ 7 | 29♑ 8 | 22♒ 4 | 7♓21 | 18♒27 | 25♌44 | 1♑28 | 24♐ 1 | 13♊36 | 5♓48 | 7♓ 5 | 14♏35 | 9♏36 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s53 | 10n 5 | 3n11 | 24s17 | 1s36 | 24s32 | 2s 2 | 17s46 | 1s23 | 17s53 | 0s53 | 13n59 | 1n16 | 23s43 | 0s14 | 22s 4 | 1n14 | 13n13 | 9s23 | 8s15 | 8s20 | 19s34 | 13s 0 | 0n40 |
| T 2 | 22 2 | 16 21 | 4 4 | 24 32 | 1 40 | 24 24 | 2 2 | 17 32 | 1 22 | 17 50 | 0 53 | 13 59 | 1 17 | 23 43 | 0 14 | 22 4 | 1 14 | 13 13 | 9 23 | 8 18 | 8 21 | 19 37 | 13 2 | 0 40 |
| W 3 | 22 11 | 21 44 | 4 41 | 24 45 | 1 45 | 24 14 | 2 3 | 17 17 | 1 21 | 17 47 | 0 53 | 13 59 | 1 17 | 23 43 | 0 14 | 22 4 | 1 14 | 13 13 | 9 23 | 8 21 | 8 23 | 19 39 | 13 4 | 0 40 |
| T 4 | 22 19 | 25 44 | 4 59 | 24 56 | 1 49 | 24 5 | 2 3 | 17 2 | 1 20 | 17 44 | 0 53 | 14 0 | 1 17 | 23 43 | 0 14 | 22 5 | 1 14 | 13 13 | 9 23 | 8 26 | 8 24 | 19 42 | 13 6 | 0 41 |
| F 5 | 22 27 | 27 53 | 4 55 | 25 7 | 1 53 | 23 54 | 2 4 | 16 48 | 1 19 | 17 41 | 0 53 | 14 0 | 1 17 | 23 43 | 0 14 | 22 5 | 1 14 | 13 13 | 9 23 | 8 30 | 8 25 | 19 44 | 13 8 | 0 41 |
| S 6 | 22 34 | 27 58 | 4 32 | 25 15 | 1 56 | 23 43 | 2 4 | 16 33 | 1 18 | 17 38 | 0 53 | 14 0 | 1 18 | 23 43 | 0 14 | 22 5 | 1 14 | 13 13 | 9 23 | 8 34 | 8 26 | 19 46 | 13 11 | 0 41 |
| S 7 | 22 41 | 26 7 | 3 51 | 25 23 | 2 0 | 23 31 | 2 5 | 16 18 | 1 17 | 17 35 | 0 53 | 14 0 | 1 18 | 23 43 | 0 14 | 22 5 | 1 14 | 13 13 | 9 23 | 8 38 | 8 27 | 19 49 | 13 13 | 0 42 |
| M 8 | 22 48 | 22 40 | 2 57 | 25 29 | 2 3 | 23 18 | 2 5 | 16 2 | 1 16 | 17 32 | 0 53 | 14 0 | 1 18 | 23 43 | 0 14 | 22 5 | 1 14 | 13 13 | 9 23 | 8 40 | 8 29 | 19 51 | 13 15 | 0 42 |
| T 9 | 22 54 | 18 5 | 1 55 | 25 34 | 2 5 | 23 5 | 2 5 | 15 47 | 1 15 | 17 29 | 0 53 | 14 1 | 1 18 | 23 43 | 0 14 | 22 5 | 1 14 | 13 13 | 9 23 | 8 42 | 8 30 | 19 54 | 13 17 | 0 42 |
| W10 | 22 59 | 12 48 | 0 49 | 25 37 | 2 8 | 22 51 | 2 5 | 15 31 | 1 13 | 17 25 | 0 53 | 14 1 | 1 18 | 23 43 | 0 14 | 22 5 | 1 14 | 13 13 | 9 23 | 8 42 | 8 31 | 19 56 | 13 19 | 0 43 |
| T 11 | 23 4 | 7 8 | 0s18 | 25 39 | 2 10 | 22 37 | 2 5 | 15 16 | 1 12 | 17 22 | 0 53 | 14 1 | 1 19 | 23 43 | 0 14 | 22 6 | 1 14 | 13 13 | 9 23 | 8 43 | 8 32 | 19 59 | 13 21 | 0 43 |
| F 12 | 23 9 | 1 22 | 1 22 | 25 39 | 2 11 | 22 22 | 2 5 | 15 0 | 1 11 | 17 19 | 0 53 | 14 2 | 1 19 | 23 43 | 0 14 | 22 6 | 1 13 | 13 13 | 9 22 | 8 42 | 8 33 | 20 1 | 13 23 | 0 43 |
| S 13 | 23 13 | 4s21 | 2 22 | 25 38 | 2 13 | 22 6 | 2 5 | 14 44 | 1 10 | 17 15 | 0 52 | 14 2 | 1 19 | 23 43 | 0 14 | 22 6 | 1 13 | 13 12 | 9 22 | 8 43 | 8 34 | 20 4 | 13 25 | 0 44 |
| S 14 | 23 17 | 9 49 | 3 14 | 25 35 | 2 14 | 21 49 | 2 4 | 14 28 | 1 9 | 17 12 | 0 52 | 14 3 | 1 19 | 23 43 | 0 14 | 22 6 | 1 13 | 13 12 | 9 22 | 8 44 | 8 36 | 20 6 | 13 27 | 0 44 |
| M15 | 23 20 | 14 54 | 3 57 | 25 30 | 2 14 | 21 32 | 2 4 | 14 12 | 1 8 | 17 9 | 0 52 | 14 3 | 1 20 | 23 43 | 0 14 | 22 6 | 1 13 | 13 12 | 9 22 | 8 46 | 8 37 | 20 9 | 13 29 | 0 44 |
| T 16 | 23 23 | 19 26 | 4 30 | 25 24 | 2 14 | 21 15 | 2 3 | 13 55 | 1 7 | 17 5 | 0 52 | 14 4 | 1 20 | 23 43 | 0 14 | 22 6 | 1 13 | 13 12 | 9 22 | 8 49 | 8 38 | 20 11 | 13 30 | 0 45 |
| W17 | 23 25 | 23 14 | 4 52 | 25 17 | 2 13 | 20 57 | 2 3 | 13 39 | 1 6 | 17 2 | 0 52 | 14 4 | 1 20 | 23 43 | 0 14 | 22 6 | 1 13 | 13 12 | 9 22 | 8 53 | 8 39 | 20 14 | 13 32 | 0 45 |
| T 18 | 23 27 | 26 5 | 5 1 | 25 8 | 2 12 | 20 38 | 2 2 | 13 22 | 1 5 | 16 58 | 0 52 | 14 5 | 1 20 | 23 43 | 0 14 | 22 6 | 1 13 | 13 12 | 9 22 | 8 58 | 8 40 | 20 16 | 13 34 | 0 45 |
| F 19 | 23 28 | 27 46 | 4 56 | 24 57 | 2 10 | 20 19 | 2 1 | 13 6 | 1 4 | 16 55 | 0 52 | 14 5 | 1 20 | 23 43 | 0 14 | 22 6 | 1 13 | 13 12 | 9 22 | 9 3 | 8 42 | 20 18 | 13 36 | 0 46 |
| S 20 | 23 29 | 28 7 | 4 38 | 24 45 | 2 8 | 19 59 | 2 0 | 12 49 | 1 3 | 16 51 | 0 52 | 14 6 | 1 21 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 22 | 9 8 | 8 43 | 20 21 | 13 38 | 0 46 |
| S 21 | 23 29 | 27 4 | 4 7 | 24 31 | 2 5 | 19 38 | 1 59 | 12 32 | 1 2 | 16 47 | 0 52 | 14 7 | 1 21 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 22 | 9 12 | 8 44 | 20 23 | 13 39 | 0 47 |
| M22 | 23 29 | 24 38 | 3 23 | 24 16 | 2 1 | 19 17 | 1 58 | 12 15 | 1 1 | 16 44 | 0 52 | 14 8 | 1 21 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 22 | 9 16 | 8 45 | 20 26 | 13 41 | 0 47 |
| T 23 | 23 29 | 20 57 | 2 28 | 24 0 | 1 56 | 18 56 | 1 57 | 11 58 | 1 0 | 16 40 | 0 52 | 14 8 | 1 21 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 22 | 9 18 | 8 46 | 20 28 | 13 43 | 0 47 |
| W24 | 23 27 | 16 13 | 1 25 | 23 42 | 1 51 | 18 34 | 1 55 | 11 41 | 0 59 | 16 36 | 0 52 | 14 9 | 1 22 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 21 | 9 20 | 8 48 | 20 30 | 13 44 | 0 48 |
| T 25 | 23 26 | 10 40 | 0 16 | 23 23 | 1 45 | 18 12 | 1 54 | 11 23 | 0 58 | 16 32 | 0 52 | 14 10 | 1 22 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 21 | 9 20 | 8 49 | 20 33 | 13 46 | 0 48 |
| F 26 | 23 24 | 4 33 | 0n55 | 23 3 | 1 38 | 17 49 | 1 52 | 11 6 | 0 57 | 16 29 | 0 52 | 14 11 | 1 22 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 21 | 9 20 | 8 50 | 20 35 | 13 48 | 0 48 |
| S 27 | 23 22 | 1n53 | 2 4 | 22 41 | 1 30 | 17 26 | 1 51 | 10 49 | 0 56 | 16 25 | 0 52 | 14 12 | 1 22 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 21 | 9 20 | 8 51 | 20 38 | 13 49 | 0 49 |
| S 28 | 23 19 | 8 21 | 3 8 | 22 19 | 1 21 | 17 2 | 1 49 | 10 31 | 0 55 | 16 21 | 0 52 | 14 13 | 1 22 | 23 43 | 0 14 | 22 7 | 1 13 | 13 12 | 9 21 | 9 20 | 8 52 | 20 40 | 13 51 | 0 49 |
| M29 | 23 15 | 14 32 | 4 1 | 21 56 | 1 11 | 16 38 | 1 47 | 10 13 | 0 54 | 16 17 | 0 52 | 14 14 | 1 23 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 21 | 9 20 | 8 53 | 20 42 | 13 52 | 0 50 |
| T 30 | 23 11 | 20 3 | 4 40 | 21 33 | 1 0 | 16 13 | 1 45 | 9 56 | 0 53 | 16 13 | 0 52 | 14 15 | 1 23 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 21 | 9 22 | 8 55 | 20 45 | 13 54 | 0 50 |
| W31 | 23s 7 | 24n26 | 5n 2 | 21s10 | 0s48 | 15s48 | 1s43 | 9s38 | 0s52 | 16s 9 | 0s52 | 14n16 | 1n23 | 23s43 | 0s14 | 22s 8 | 1n13 | 13n12 | 9s21 | 9s24 | 8s56 | 20s47 | 13s55 | 0n50 |

Julian Day Number = 2325140.5, Delta T = 40.58 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'35, Lahiri = 19°01'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## JANUARY 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 43 2 | 10♑53'16 | 11♊53 | 29♑58 | 23♒15 | 8♓ 6 | 18♒40 | 25°R42 | 1♑32 | 24♐ 4 | 13°R35 | 5°R39 | 7♓ 1 | 14♏42 | 9♏41 | T 1 |
| F 2 | 6 46 59 | 11°54'25 | 26°39 | 0♒41 | 24°26 | 8°51 | 18°53 | 25♌39 | 1°35 | 24° 6 | 13♊34 | 5♓30 | 6°58 | 14°49 | 9°47 | F 2 |
| S 3 | 6 50 56 | 12°55'34 | 11♋15 | 1°15 | 25°36 | 9°37 | 19° 6 | 25°36 | 1°39 | 24° 8 | 13°33 | 5°22 | 6°55 | 14°55 | 9°52 | S 3 |
| S 4 | 6 54 52 | 13°56'43 | 25°36 | 1°40 | 26°47 | 10°22 | 19°19 | 25°33 | 1°43 | 24°10 | 13°32 | 5°14 | 6°52 | 15° 2 | 9°58 | S 4 |
| M 5 | 6 58 49 | 14°57'51 | 9♌34 | 1°55 | 27°57 | 11° 7 | 19°32 | 25°30 | 1°46 | 24°12 | 13°31 | 5° 9 | 6°49 | 15° 9 | 10° 3 | M 5 |
| T 6 | 7 2 45 | 15°58'59 | 23° 8 | 1°R58 | 29° 7 | 11°52 | 19°45 | 25°27 | 1°50 | 24°14 | 13°30 | 5° 6 | 6°46 | 15°15 | 10° 8 | T 6 |
| W 7 | 7 6 42 | 17° 0'07 | 6♍16 | 1°51 | 0♓17 | 12°37 | 19°58 | 25°24 | 1°53 | 24°17 | 13°29 | 5°D 6 | 6°42 | 15°22 | 10°13 | W 7 |
| T 8 | 7 10 38 | 18° 1'15 | 19° 0 | 1°31 | 1°27 | 13°22 | 20°12 | 25°21 | 1°57 | 24°19 | 13°28 | 5° 6 | 6°39 | 15°29 | 10°18 | T 8 |
| F 9 | 7 14 35 | 19° 2'23 | 1♎24 | 1° 0 | 2°37 | 14° 7 | 20°25 | 25°17 | 2° 0 | 24°21 | 13°27 | 5° 8 | 6°36 | 15°36 | 10°23 | F 9 |
| S 10 | 7 18 31 | 20° 3'30 | 13°31 | 0°17 | 3°46 | 14°52 | 20°38 | 25°14 | 2° 4 | 24°23 | 13°27 | 5° 9 | 6°33 | 15°42 | 10°28 | S 10 |
| S 11 | 7 22 28 | 21° 4'38 | 25°29 | 29♑24 | 4°56 | 15°37 | 20°52 | 25°10 | 2° 7 | 24°25 | 13°26 | 5°R 9 | 6°30 | 15°49 | 10°33 | S 11 |
| M12 | 7 26 25 | 22° 5'45 | 7♏20 | 28°22 | 6° 5 | 16°22 | 21° 5 | 25° 7 | 2°11 | 24°27 | 13°25 | 5° 8 | 6°26 | 15°56 | 10°38 | M12 |
| T 13 | 7 30 21 | 23° 6'51 | 19°11 | 27°13 | 7°14 | 17° 7 | 21°19 | 25° 3 | 2°14 | 24°29 | 13°24 | 5° 4 | 6°23 | 16° 2 | 10°42 | T 13 |
| W14 | 7 34 18 | 24° 7'58 | 1♐ 6 | 25°59 | 8°24 | 17°52 | 21°33 | 24°59 | 2°17 | 24°31 | 13°23 | 4°59 | 6°20 | 16° 9 | 10°47 | W14 |
| T 15 | 7 38 14 | 25° 9'04 | 13° 9 | 24°42 | 9°32 | 18°37 | 21°46 | 24°55 | 2°21 | 24°33 | 13°22 | 4°52 | 6°17 | 16°16 | 10°51 | T 15 |
| F 16 | 7 42 11 | 26°10'09 | 25°22 | 23°24 | 10°41 | 19°22 | 22° 0 | 24°52 | 2°24 | 24°35 | 13°21 | 4°45 | 6°14 | 16°23 | 10°55 | F 16 |
| S 17 | 7 46 7 | 27°11'15 | 7♑47 | 22° 9 | 11°50 | 20° 7 | 22°14 | 24°48 | 2°28 | 24°37 | 13°21 | 4°38 | 6°11 | 16°29 | 10°59 | S 17 |
| S 18 | 7 50 4 | 28°12'19 | 20°26 | 20°57 | 12°58 | 20°52 | 22°28 | 24°44 | 2°31 | 24°39 | 13°20 | 4°31 | 6° 7 | 16°36 | 11° 4 | S 18 |
| M19 | 7 54 0 | 29°13'23 | 3♒19 | 19°51 | 14° 6 | 21°37 | 22°41 | 24°39 | 2°34 | 24°41 | 13°19 | 4°26 | 6° 4 | 16°43 | 11° 8 | M19 |
| T 20 | 7 57 57 | 0♒14'25 | 16°25 | 18°52 | 15°14 | 22°22 | 22°55 | 24°35 | 2°38 | 24°43 | 13°18 | 4°23 | 6° 1 | 16°49 | 11°11 | T 20 |
| W21 | 8 1 54 | 1°15'27 | 29°44 | 18° 1 | 16°22 | 23° 6 | 23° 9 | 24°31 | 2°41 | 24°45 | 13°18 | 4°D21 | 5°58 | 16°56 | 11°15 | W21 |
| T 22 | 8 5 50 | 2°16'28 | 13♓14 | 17°19 | 17°29 | 23°51 | 23°23 | 24°27 | 2°44 | 24°47 | 13°17 | 4°22 | 5°55 | 17° 3 | 11°19 | T 22 |
| F 23 | 8 9 47 | 3°17'27 | 26°54 | 16°46 | 18°37 | 24°36 | 23°37 | 24°22 | 2°47 | 24°49 | 13°16 | 4°23 | 5°52 | 17°10 | 11°22 | F 23 |
| S 24 | 8 13 43 | 4°18'26 | 10♈43 | 16°22 | 19°44 | 25°21 | 23°51 | 24°18 | 2°51 | 24°51 | 13°15 | 4°24 | 5°48 | 17°16 | 11°26 | S 24 |
| S 25 | 8 17 40 | 5°19'23 | 24°42 | 16° 6 | 20°51 | 26° 5 | 24° 5 | 24°14 | 2°54 | 24°53 | 13°15 | 4°26 | 5°45 | 17°23 | 11°29 | S 25 |
| M26 | 8 21 36 | 6°20'18 | 8♉49 | 15°D59 | 21°58 | 26°50 | 24°19 | 24° 9 | 2°57 | 24°54 | 13°14 | 4°R26 | 5°42 | 17°30 | 11°32 | M26 |
| T 27 | 8 25 33 | 7°21'13 | 23° 2 | 15°59 | 23° 4 | 27°35 | 24°34 | 24° 5 | 3° 0 | 24°56 | 13°13 | 4°25 | 5°39 | 17°36 | 11°36 | T 27 |
| W28 | 8 29 29 | 8°22'06 | 7♊19 | 16° 7 | 24°10 | 28°19 | 24°48 | 24° 0 | 3° 3 | 24°58 | 13°13 | 4°23 | 5°36 | 17°43 | 11°39 | W28 |
| T 29 | 8 33 26 | 9°22'58 | 21°37 | 16°22 | 25°16 | 29° 4 | 25° 2 | 23°55 | 3° 6 | 25° 0 | 13°12 | 4°20 | 5°32 | 17°50 | 11°42 | T 29 |
| F 30 | 8 37 23 | 10°23'48 | 5♋52 | 16°43 | 26°22 | 29°48 | 25°16 | 23°51 | 3° 9 | 25° 1 | 13°12 | 4°16 | 5°29 | 17°57 | 11°44 | F 30 |
| S 31 | 8 41 19 | 11♒24'37 | 20♋ 0 | 17♑10 | 27♓27 | 0♈33 | 25♒30 | 23♌46 | 3♑12 | 25♐ 3 | 13♊11 | 4♓13 | 5♓26 | 18♏ 3 | 11♏47 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 2 | 27n16 | 5n 3 | 20s46 | 0s35 | 15s23 | 1s41 | 9s20 | 0s51 | 16s 5 | 0s52 | 14n17 | 1n23 | 23s43 | 0s14 | 22s 8 | 1n13 | 13n12 | 9s20 | 9s27 | 8s57 | 20s49 | 13s57 | 0n51 |
| F 2 | 22 57 | 28 11 | 4 45 | 20 23 | 0 21 | 14 57 | 1 38 | 9 2 | 0 50 | 16 1 | 0 52 | 14 18 | 1 23 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 20 | 9 31 | 8 58 | 20 52 | 13 58 | 0 51 |
| S 3 | 22 51 | 27 7 | 4 8 | 20 1 | 0 6 | 14 31 | 1 36 | 8 44 | 0 49 | 15 57 | 0 52 | 14 19 | 1 24 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 20 | 9 34 | 8 59 | 20 54 | 13 59 | 0 51 |
| S 4 | 22 45 | 24 16 | 3 16 | 19 39 | 0n11 | 14 4 | 1 33 | 8 26 | 0 48 | 15 53 | 0 52 | 14 21 | 1 24 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 20 | 9 36 | 9 1 | 20 56 | 14 1 | 0 52 |
| M 5 | 22 39 | 20 1 | 2 13 | 19 19 | 0 28 | 13 38 | 1 31 | 8 8 | 0 47 | 15 49 | 0 52 | 14 22 | 1 24 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 20 | 9 38 | 9 2 | 20 59 | 14 2 | 0 52 |
| T 6 | 22 32 | 14 51 | 1 4 | 19 1 | 0 46 | 13 11 | 1 28 | 7 50 | 0 46 | 15 44 | 0 52 | 14 23 | 1 24 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 20 | 9 39 | 9 3 | 21 1 | 14 3 | 0 53 |
| W 7 | 22 24 | 9 8 | 0s 6 | 18 45 | 1 4 | 12 43 | 1 25 | 7 32 | 0 45 | 15 40 | 0 52 | 14 24 | 1 24 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 20 | 9 40 | 9 4 | 21 3 | 14 4 | 0 53 |
| T 8 | 22 16 | 3 13 | 1 14 | 18 30 | 1 23 | 12 16 | 1 22 | 7 14 | 0 44 | 15 36 | 0 52 | 14 26 | 1 25 | 23 43 | 0 14 | 22 8 | 1 13 | 13 12 | 9 19 | 9 39 | 9 5 | 21 6 | 14 6 | 0 53 |
| F 9 | 22 8 | 2s39 | 2 17 | 18 19 | 1 42 | 11 48 | 1 19 | 6 55 | 0 43 | 15 32 | 0 52 | 14 27 | 1 25 | 23 43 | 0 14 | 22 9 | 1 13 | 13 12 | 9 19 | 9 39 | 9 6 | 21 8 | 14 7 | 0 54 |
| S 10 | 21 59 | 8 18 | 3 12 | 18 10 | 2 1 | 11 19 | 1 16 | 6 37 | 0 42 | 15 27 | 0 52 | 14 28 | 1 25 | 23 43 | 0 14 | 22 9 | 1 13 | 13 12 | 9 19 | 9 38 | 9 8 | 21 10 | 14 8 | 0 54 |
| S 11 | 21 50 | 13 34 | 3 58 | 18 4 | 2 18 | 10 51 | 1 13 | 6 19 | 0 41 | 15 23 | 0 52 | 14 30 | 1 25 | 23 43 | 0 14 | 22 9 | 1 14 | 13 13 | 9 19 | 9 38 | 9 9 | 21 13 | 14 9 | 0 55 |
| M12 | 21 40 | 18 18 | 4 34 | 18 0 | 2 35 | 10 22 | 1 9 | 6 0 | 0 40 | 15 19 | 0 52 | 14 31 | 1 25 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 19 | 9 39 | 9 10 | 21 15 | 14 10 | 0 55 |
| T 13 | 21 30 | 22 19 | 4 58 | 17 59 | 2 50 | 9 53 | 1 6 | 5 42 | 0 39 | 15 14 | 0 52 | 14 32 | 1 26 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 19 | 9 40 | 9 11 | 21 17 | 14 11 | 0 55 |
| W14 | 21 20 | 25 27 | 5 8 | 18 0 | 3 3 | 9 24 | 1 2 | 5 23 | 0 38 | 15 10 | 0 52 | 14 34 | 1 26 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 18 | 9 42 | 9 12 | 21 19 | 14 12 | 0 56 |
| T 15 | 21 9 | 27 29 | 5 6 | 18 3 | 3 14 | 8 55 | 0 59 | 5 5 | 0 37 | 15 6 | 0 52 | 14 35 | 1 26 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 18 | 9 45 | 9 13 | 21 22 | 14 13 | 0 56 |
| F 16 | 20 57 | 28 14 | 4 50 | 18 8 | 3 22 | 8 25 | 0 55 | 4 46 | 0 36 | 15 1 | 0 52 | 14 37 | 1 26 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 18 | 9 47 | 9 15 | 21 24 | 14 14 | 0 57 |
| S 17 | 20 46 | 27 34 | 4 19 | 18 14 | 3 28 | 7 56 | 0 51 | 4 28 | 0 35 | 14 57 | 0 52 | 14 38 | 1 26 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 18 | 9 50 | 9 16 | 21 26 | 14 15 | 0 57 |
| S 18 | 20 34 | 25 29 | 3 36 | 18 22 | 3 32 | 7 26 | 0 47 | 4 9 | 0 35 | 14 52 | 0 52 | 14 40 | 1 26 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 18 | 9 52 | 9 17 | 21 28 | 14 16 | 0 57 |
| M19 | 20 21 | 22 4 | 2 41 | 18 31 | 3 32 | 6 56 | 0 43 | 3 51 | 0 34 | 14 48 | 0 52 | 14 41 | 1 27 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 17 | 9 54 | 9 18 | 21 31 | 14 17 | 0 58 |
| T 20 | 20 8 | 17 29 | 1 36 | 18 40 | 3 31 | 6 26 | 0 39 | 3 32 | 0 33 | 14 43 | 0 52 | 14 43 | 1 27 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 17 | 9 55 | 9 19 | 21 33 | 14 18 | 0 58 |
| W21 | 19 55 | 11 59 | 0 25 | 18 50 | 3 28 | 5 55 | 0 35 | 3 14 | 0 32 | 14 39 | 0 52 | 14 44 | 1 27 | 23 42 | 0 14 | 22 9 | 1 14 | 13 13 | 9 17 | 9 56 | 9 20 | 21 35 | 14 18 | 0 59 |
| T 22 | 19 42 | 5 52 | 0n48 | 19 0 | 3 23 | 5 25 | 0 30 | 2 55 | 0 31 | 14 34 | 0 52 | 14 46 | 1 27 | 23 42 | 0 15 | 22 9 | 1 14 | 13 14 | 9 17 | 9 56 | 9 22 | 21 37 | 14 19 | 0 59 |
| F 23 | 19 28 | 0n36 | 2 0 | 19 11 | 3 16 | 4 54 | 0 26 | 2 36 | 0 30 | 14 29 | 0 52 | 14 48 | 1 27 | 23 42 | 0 15 | 22 9 | 1 14 | 13 14 | 9 17 | 9 55 | 9 23 | 21 40 | 14 20 | 0 59 |
| S 24 | 19 13 | 7 6 | 3 6 | 19 22 | 3 9 | 4 24 | 0 21 | 2 18 | 0 29 | 14 25 | 0 52 | 14 49 | 1 27 | 23 42 | 0 15 | 22 10 | 1 14 | 13 14 | 9 16 | 9 55 | 9 24 | 21 42 | 14 20 | 1 0 |
| S 25 | 18 59 | 13 19 | 4 1 | 19 32 | 3 0 | 3 53 | 0 16 | 1 59 | 0 28 | 14 20 | 0 52 | 14 51 | 1 28 | 23 42 | 0 15 | 22 10 | 1 14 | 13 14 | 9 16 | 9 54 | 9 25 | 21 44 | 14 21 | 1 0 |
| M26 | 18 44 | 18 55 | 4 43 | 19 43 | 2 50 | 3 22 | 0 12 | 1 40 | 0 27 | 14 15 | 0 52 | 14 53 | 1 28 | 23 42 | 0 15 | 22 10 | 1 14 | 13 14 | 9 16 | 9 54 | 9 26 | 21 46 | 14 22 | 1 1 |
| T 27 | 18 28 | 23 31 | 5 7 | 19 53 | 2 40 | 2 52 | 0 7 | 1 22 | 0 26 | 14 11 | 0 52 | 14 54 | 1 28 | 23 42 | 0 15 | 22 10 | 1 14 | 13 14 | 9 16 | 9 54 | 9 28 | 21 49 | 14 22 | 1 1 |
| W28 | 18 12 | 26 43 | 5 13 | 20 2 | 2 29 | 2 21 | 0 2 | 1 3 | 0 25 | 14 6 | 0 52 | 14 56 | 1 28 | 23 42 | 0 15 | 22 10 | 1 14 | 13 14 | 9 16 | 9 55 | 9 29 | 21 51 | 14 23 | 1 2 |
| T 29 | 17 56 | 28 12 | 4 59 | 20 11 | 2 18 | 1 50 | 0n 3 | 0 45 | 0 24 | 14 1 | 0 52 | 14 58 | 1 28 | 23 42 | 0 15 | 22 10 | 1 14 | 13 14 | 9 15 | 9 56 | 9 30 | 21 53 | 14 23 | 1 2 |
| F 30 | 17 40 | 27 48 | 4 27 | 20 20 | 2 7 | 1 19 | 0 8 | 0 26 | 0 23 | 13 56 | 0 52 | 14 59 | 1 28 | 23 42 | 0 15 | 22 10 | 1 14 | 13 15 | 9 15 | 9 58 | 9 31 | 21 55 | 14 24 | 1 2 |
| S 31 | 17s23 | 25n36 | 3n39 | 20s28 | 1n56 | 0s49 | 0n13 | 0s 8 | 0s23 | 13s52 | 0s52 | 15n 1 | 1n28 | 23s41 | 0s15 | 22s10 | 1n14 | 13n15 | 9s15 | 9s59 | 9s32 | 21s57 | 14s24 | 1n 3 |

Julian Day Number = 2325171.5, Delta T = 40.52 sec
Ecliptic obliquity = 23°29'11, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'39, Lahiri = 19°01'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## FEBRUARY 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 45 16 | 12♒25'25 | 3♌55 | 17♑43 | 28♓32 | 1♈17 | 25♒45 | 23°R41 | 3♑15 | 25♐ 5 | 13°R11 | 4°R10 | 5♓23 | 18♏10 | 11♏50 | S 1 |
| M 2 | 8 49 12 | 13°26'11 | 17°35 | 18°20 | 29°37 | 2° 2 | 25°59 | 23♌37 | 3°18 | 25° 7 | 13♊10 | 4♓ 8 | 5°20 | 18°17 | 11°52 | M 2 |
| T 3 | 8 53 9 | 14°26'56 | 0♍56 | 19° 2 | 0♈42 | 2°46 | 26°13 | 23°32 | 3°21 | 25° 8 | 13°10 | 4°D 7 | 5°17 | 18°24 | 11°55 | T 3 |
| W 4 | 8 57 5 | 15°27'40 | 13°58 | 19°48 | 1°46 | 3°31 | 26°28 | 23°27 | 3°24 | 25°10 | 13° 9 | 4° 8 | 5°13 | 18°30 | 11°57 | W 4 |
| T 5 | 9 1 2 | 16°28'22 | 26°40 | 20°37 | 2°50 | 4°15 | 26°42 | 23°22 | 3°27 | 25°11 | 13° 9 | 4° 9 | 5°10 | 18°37 | 11°59 | T 5 |
| F 6 | 9 4 58 | 17°29'04 | 9♎ 5 | 21°31 | 3°54 | 4°59 | 26°56 | 23°17 | 3°30 | 25°13 | 13° 8 | 4°10 | 5° 7 | 18°44 | 12° 1 | F 6 |
| S 7 | 9 8 55 | 18°29'44 | 21°16 | 22°27 | 4°57 | 5°44 | 27°11 | 23°13 | 3°33 | 25°14 | 13° 8 | 4°11 | 5° 4 | 18°50 | 12° 3 | S 7 |
| S 8 | 9 12 52 | 19°30'23 | 3♏16 | 23°26 | 6° 0 | 6°28 | 27°25 | 23° 8 | 3°36 | 25°16 | 13° 7 | 4°13 | 5° 1 | 18°57 | 12° 5 | S 8 |
| M 9 | 9 16 48 | 20°31'01 | 15°10 | 24°28 | 7° 2 | 7°12 | 27°39 | 23° 3 | 3°38 | 25°18 | 13° 7 | 4°13 | 4°58 | 19° 4 | 12° 6 | M 9 |
| T 10 | 9 20 45 | 21°31'37 | 27° 2 | 25°32 | 8° 4 | 7°56 | 27°54 | 22°58 | 3°41 | 25°19 | 13° 7 | 4°R13 | 4°54 | 19°11 | 12° 8 | T 10 |
| W11 | 9 24 41 | 22°32'13 | 8♐58 | 26°39 | 9° 6 | 8°40 | 28° 8 | 22°53 | 3°44 | 25°20 | 13° 6 | 4°13 | 4°51 | 19°17 | 12° 9 | W11 |
| T 12 | 9 28 38 | 23°32'47 | 21° 1 | 27°48 | 10° 8 | 9°24 | 28°23 | 22°48 | 3°46 | 25°22 | 13° 6 | 4°12 | 4°48 | 19°24 | 12°11 | T 12 |
| F 13 | 9 32 34 | 24°33'20 | 3♑17 | 28°58 | 11° 9 | 10° 8 | 28°37 | 22°43 | 3°49 | 25°23 | 13° 6 | 4°10 | 4°45 | 19°31 | 12°12 | F 13 |
| S 14 | 9 36 31 | 25°33'52 | 15°48 | 0♒11 | 12° 9 | 10°52 | 28°52 | 22°39 | 3°52 | 25°25 | 13° 6 | 4° 9 | 4°42 | 19°37 | 12°13 | S 14 |
| S 15 | 9 40 27 | 26°34'22 | 28°36 | 1°25 | 13°10 | 11°36 | 29° 6 | 22°34 | 3°54 | 25°26 | 13° 5 | 4° 8 | 4°38 | 19°44 | 12°14 | S 15 |
| M16 | 9 44 24 | 27°34'50 | 11♒44 | 2°41 | 14° 9 | 12°20 | 29°21 | 22°29 | 3°57 | 25°27 | 13° 5 | 4° 7 | 4°35 | 19°51 | 12°15 | M16 |
| T 17 | 9 48 21 | 28°35'18 | 25°10 | 3°59 | 15° 9 | 13° 4 | 29°35 | 22°24 | 3°59 | 25°29 | 13° 5 | 4° 7 | 4°32 | 19°58 | 12°16 | T 17 |
| W18 | 9 52 17 | 29°35'43 | 8♓53 | 5°18 | 16° 8 | 13°48 | 29°50 | 22°19 | 4° 1 | 25°30 | 13° 5 | 4°D 7 | 4°29 | 20° 4 | 12°17 | W18 |
| T 19 | 9 56 14 | 0♓36'06 | 22°51 | 6°39 | 17° 6 | 14°32 | 0♓ 4 | 22°14 | 4° 4 | 25°31 | 13° 5 | 4° 7 | 4°26 | 20°11 | 12°17 | T 19 |
| F 20 | 10 0 10 | 1°36'28 | 7♈ 0 | 8° 1 | 18° 4 | 15°16 | 0°19 | 22°10 | 4° 6 | 25°32 | 13° 4 | 4° 7 | 4°23 | 20°18 | 12°18 | F 20 |
| S 21 | 10 4 7 | 2°36'48 | 21°15 | 9°24 | 19° 1 | 16° 0 | 0°33 | 22° 5 | 4° 8 | 25°33 | 13° 4 | 4° 7 | 4°19 | 20°24 | 12°18 | S 21 |
| S 22 | 10 8 3 | 3°37'06 | 5♉33 | 10°48 | 19°58 | 16°43 | 0°48 | 22° 0 | 4°11 | 25°34 | 13° 4 | 4° 7 | 4°16 | 20°31 | 12°18 | S 22 |
| M23 | 10 12 0 | 4°37'22 | 19°51 | 12°14 | 20°54 | 17°27 | 1° 2 | 21°55 | 4°13 | 25°36 | 13° 4 | 4°R 7 | 4°13 | 20°38 | 12°R18 | M23 |
| T 24 | 10 15 56 | 5°37'35 | 4♊ 4 | 13°41 | 21°50 | 18°11 | 1°16 | 21°51 | 4°15 | 25°37 | 13° 4 | 4°D 7 | 4°10 | 20°45 | 12°18 | T 24 |
| W25 | 10 19 53 | 6°37'47 | 18°12 | 15° 9 | 22°45 | 18°54 | 1°31 | 21°46 | 4°17 | 25°38 | 13°D 4 | 4° 8 | 4° 7 | 20°51 | 12°18 | W25 |
| T 26 | 10 23 50 | 7°37'57 | 2♋11 | 16°38 | 23°39 | 19°38 | 1°45 | 21°42 | 4°19 | 25°39 | 13° 4 | 4° 8 | 4° 4 | 20°58 | 12°18 | T 26 |
| F 27 | 10 27 46 | 8°38'04 | 16° 1 | 18° 9 | 24°33 | 20°21 | 2° 0 | 21°37 | 4°21 | 25°40 | 13° 4 | 4° 8 | 4° 0 | 21° 5 | 12°17 | F 27 |
| S 28 | 10 31 43 | 9♓38'10 | 29♋40 | 19♒40 | 25♈26 | 21♈ 5 | 2♓14 | 21♌32 | 4♑23 | 25♐41 | 13♊ 4 | 4♓ 9 | 3♓57 | 21♏12 | 12♏17 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 7 | 21n53 | 2n39 | 20s35 | 1n45 | 0s18 | 0n19 | 0n11 | 0s22 | 13s47 | 0s52 | 15n 3 | 1n29 | 23s41 | 0s15 | 22s10 | 1n14 | 13n15 | 9s15 | 10s 0 | 9s33 | 21s59 | 14s25 | 1n 3 |
| M 2 | 16 49 | 17 1 | 1 30 | 20 41 | 1 33 | 0n13 | 0 24 | 0 30 | 0 21 | 13 42 | 0 52 | 15 4 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 15 | 9 15 | 10 1 | 9 35 | 22 2 | 14 25 | 1 4 |
| T 3 | 16 32 | 11 26 | 0 18 | 20 47 | 1 22 | 0 44 | 0 29 | 0 48 | 0 20 | 13 37 | 0 52 | 15 6 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 15 | 9 14 | 10 1 | 9 36 | 22 4 | 14 25 | 1 4 |
| W 4 | 16 14 | 5 29 | 0s54 | 20 51 | 1 11 | 1 14 | 0 35 | 1 6 | 0 19 | 13 32 | 0 52 | 15 8 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 15 | 9 14 | 10 1 | 9 37 | 22 6 | 14 25 | 1 5 |
| T 5 | 15 56 | 0s32 | 2 1 | 20 55 | 1 0 | 1 45 | 0 41 | 1 25 | 0 18 | 13 27 | 0 52 | 15 9 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 16 | 9 14 | 10 1 | 9 38 | 22 8 | 14 26 | 1 5 |
| F 6 | 15 37 | 6 23 | 3 1 | 20 57 | 0 49 | 2 15 | 0 46 | 1 43 | 0 17 | 13 23 | 0 52 | 15 11 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 16 | 9 14 | 10 0 | 9 39 | 22 10 | 14 26 | 1 6 |
| S 7 | 15 19 | 11 53 | 3 52 | 20 59 | 0 39 | 2 46 | 0 52 | 2 2 | 0 16 | 13 18 | 0 52 | 15 13 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 16 | 9 13 | 10 0 | 9 40 | 22 12 | 14 26 | 1 6 |
| S 8 | 15 0 | 16 52 | 4 31 | 20 59 | 0 28 | 3 16 | 0 58 | 2 20 | 0 16 | 13 13 | 0 52 | 15 14 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 16 | 9 13 | 9 59 | 9 42 | 22 14 | 14 26 | 1 6 |
| M 9 | 14 41 | 21 10 | 4 59 | 20 58 | 0 18 | 3 46 | 1 4 | 2 38 | 0 15 | 13 8 | 0 52 | 15 16 | 1 29 | 23 41 | 0 15 | 22 10 | 1 14 | 13 16 | 9 13 | 9 59 | 9 43 | 22 17 | 14 26 | 1 7 |
| T 10 | 14 21 | 24 37 | 5 14 | 20 56 | 0 8 | 4 17 | 1 10 | 2 57 | 0 14 | 13 3 | 0 52 | 15 18 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 16 | 9 13 | 9 59 | 9 44 | 22 19 | 14 26 | 1 7 |
| W11 | 14 2 | 27 1 | 5 15 | 20 53 | 0s 1 | 4 47 | 1 16 | 3 15 | 0 13 | 12 58 | 0 52 | 15 20 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 17 | 9 12 | 9 59 | 9 45 | 22 21 | 14 26 | 1 8 |
| T 12 | 13 42 | 28 13 | 5 3 | 20 49 | 0 10 | 5 16 | 1 22 | 3 33 | 0 12 | 12 53 | 0 53 | 15 21 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 17 | 9 12 | 9 59 | 9 46 | 22 23 | 14 26 | 1 8 |
| F 13 | 13 22 | 28 3 | 4 37 | 20 43 | 0 19 | 5 46 | 1 28 | 3 51 | 0 11 | 12 48 | 0 53 | 15 23 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 17 | 9 12 | 10 0 | 9 47 | 22 25 | 14 26 | 1 9 |
| S 14 | 13 1 | 26 28 | 3 57 | 20 36 | 0 28 | 6 16 | 1 34 | 4 9 | 0 10 | 12 43 | 0 53 | 15 25 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 17 | 9 12 | 10 0 | 9 48 | 22 27 | 14 26 | 1 9 |
| S 15 | 12 41 | 23 29 | 3 4 | 20 28 | 0 36 | 6 45 | 1 41 | 4 27 | 0 10 | 12 38 | 0 53 | 15 26 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 17 | 9 12 | 10 1 | 9 50 | 22 29 | 14 26 | 1 10 |
| M16 | 12 20 | 19 14 | 2 1 | 20 19 | 0 44 | 7 14 | 1 47 | 4 45 | 0 9 | 12 33 | 0 53 | 15 28 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 18 | 9 11 | 10 1 | 9 51 | 22 31 | 14 26 | 1 10 |
| T 17 | 11 59 | 13 56 | 0 49 | 20 8 | 0 52 | 7 43 | 1 53 | 5 3 | 0 8 | 12 28 | 0 53 | 15 30 | 1 30 | 23 41 | 0 15 | 22 10 | 1 14 | 13 18 | 9 11 | 10 1 | 9 52 | 22 33 | 14 26 | 1 10 |
| W18 | 11 38 | 7 51 | 0n26 | 19 57 | 1 0 | 8 12 | 2 0 | 5 21 | 0 7 | 12 23 | 0 53 | 15 31 | 1 30 | 23 40 | 0 15 | 22 10 | 1 14 | 13 18 | 9 11 | 10 1 | 9 53 | 22 35 | 14 26 | 1 11 |
| T 19 | 11 17 | 1 17 | 1 42 | 19 43 | 1 7 | 8 40 | 2 6 | 5 39 | 0 6 | 12 18 | 0 53 | 15 33 | 1 30 | 23 40 | 0 15 | 22 10 | 1 14 | 13 18 | 9 11 | 10 1 | 9 54 | 22 38 | 14 25 | 1 11 |
| F 20 | 10 55 | 5n25 | 2 52 | 19 29 | 1 13 | 9 9 | 2 13 | 5 56 | 0 6 | 12 13 | 0 53 | 15 34 | 1 30 | 23 40 | 0 15 | 22 10 | 1 14 | 13 19 | 9 10 | 10 1 | 9 55 | 22 40 | 14 25 | 1 12 |
| S 21 | 10 34 | 11 54 | 3 53 | 19 13 | 1 20 | 9 37 | 2 19 | 6 14 | 0 5 | 12 8 | 0 53 | 15 36 | 1 30 | 23 40 | 0 15 | 22 10 | 1 14 | 13 19 | 9 10 | 10 1 | 9 57 | 22 42 | 14 25 | 1 12 |
| S 22 | 10 12 | 17 46 | 4 39 | 18 56 | 1 26 | 10 4 | 2 26 | 6 31 | 0 4 | 12 2 | 0 53 | 15 38 | 1 30 | 23 40 | 0 15 | 22 10 | 1 14 | 13 19 | 9 10 | 10 1 | 9 58 | 22 44 | 14 24 | 1 13 |
| M23 | 9 50 | 22 40 | 5 7 | 18 38 | 1 32 | 10 32 | 2 33 | 6 49 | 0 3 | 11 57 | 0 53 | 15 39 | 1 30 | 23 40 | 0 15 | 22 10 | 1 14 | 13 19 | 9 10 | 10 1 | 9 59 | 22 46 | 14 24 | 1 13 |
| T 24 | 9 28 | 26 11 | 5 17 | 18 18 | 1 37 | 10 59 | 2 39 | 7 6 | 0 2 | 11 52 | 0 53 | 15 41 | 1 31 | 23 40 | 0 15 | 22 10 | 1 14 | 13 19 | 9 9 | 10 1 | 10 0 | 22 48 | 14 23 | 1 14 |
| W25 | 9 6 | 28 4 | 5 8 | 17 57 | 1 42 | 11 26 | 2 46 | 7 24 | 0 2 | 11 47 | 0 53 | 15 42 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 20 | 9 9 | 10 1 | 10 1 | 22 50 | 14 23 | 1 14 |
| T 26 | 8 43 | 28 8 | 4 40 | 17 35 | 1 47 | 11 53 | 2 53 | 7 41 | 0 1 | 11 42 | 0 53 | 15 44 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 20 | 9 9 | 10 1 | 10 2 | 22 52 | 14 22 | 1 15 |
| F 27 | 8 21 | 26 26 | 3 56 | 17 11 | 1 51 | 12 19 | 3 0 | 7 58 | 0 0 | 11 37 | 0 53 | 15 45 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 20 | 9 9 | 10 1 | 10 4 | 22 54 | 14 22 | 1 15 |
| S 28 | 7s58 | 23n11 | 3n 0 | 16s46 | 1s55 | 12n45 | 3n 7 | 8n15 | 0n 1 | 11s32 | 0s54 | 15n47 | 1n31 | 23s40 | 0s15 | 22s10 | 1n15 | 13n20 | 9s 8 | 10s 1 | 10s 5 | 22s56 | 14s21 | 1n16 |

Julian Day Number = 2325202.5, Delta T = 40.47 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'43, Lahiri = 19°01'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## MARCH 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 35 39 | 10♓38'13 | 13♌ 6 | 21♒13 | 26♈18 | 21♈48 | 2♓29 | 21°R28 | 4♉25 | 25♐41 | 13♊ 4 | 4♓ 9 | 3♓54 | 21♏18 | 12°R16 | S 1 |
| M 2 | 10 39 36 | 11°38'14 | 26°20 | 22°47 | 27°10 | 22°32 | 2°43 | 21♌24 | 4°27 | 25°42 | 13° 4 | 4°10 | 3°51 | 21°25 | 12♏16 | M 2 |
| T 3 | 10 43 32 | 12°38'13 | 9♍20 | 24°22 | 28° 1 | 23°15 | 2°57 | 21°19 | 4°29 | 25°43 | 13° 5 | 4°R10 | 3°48 | 21°32 | 12°15 | T 3 |
| W 4 | 10 47 29 | 13°38'10 | 22° 7 | 25°58 | 28°51 | 23°58 | 3°12 | 21°15 | 4°31 | 25°44 | 13° 5 | 4° 9 | 3°44 | 21°38 | 12°14 | W 4 |
| T 5 | 10 51 25 | 14°38'05 | 4♎39 | 27°36 | 29°40 | 24°41 | 3°26 | 21°11 | 4°33 | 25°45 | 13° 5 | 4° 8 | 3°41 | 21°45 | 12°13 | T 5 |
| F 6 | 10 55 22 | 15°37'59 | 16°59 | 29°14 | 0♉29 | 25°25 | 3°40 | 21° 6 | 4°34 | 25°46 | 13° 5 | 4° 7 | 3°38 | 21°52 | 12°12 | F 6 |
| S 7 | 10 59 19 | 16°37'50 | 29° 7 | 0♓54 | 1°16 | 26° 8 | 3°55 | 21° 2 | 4°36 | 25°46 | 13° 5 | 4° 5 | 3°35 | 21°59 | 12°10 | S 7 |
| S 8 | 11 3 15 | 17°37'40 | 11♏ 7 | 2°34 | 2° 3 | 26°51 | 4° 9 | 20°58 | 4°38 | 25°47 | 13° 5 | 4° 3 | 3°32 | 22° 5 | 12° 9 | S 8 |
| M 9 | 11 7 12 | 18°37'28 | 23° 1 | 4°16 | 2°49 | 27°34 | 4°23 | 20°54 | 4°39 | 25°48 | 13° 6 | 4° 1 | 3°29 | 22°12 | 12° 8 | M 9 |
| T 10 | 11 11 8 | 19°37'15 | 4♐54 | 5°59 | 3°34 | 28°17 | 4°38 | 20°50 | 4°41 | 25°48 | 13° 6 | 4° 0 | 3°25 | 22°19 | 12° 6 | T 10 |
| W11 | 11 15 5 | 20°37'00 | 16°49 | 7°44 | 4°17 | 29° 0 | 4°52 | 20°46 | 4°42 | 25°49 | 13° 6 | 3°D59 | 3°22 | 22°25 | 12° 4 | W11 |
| T 12 | 11 19 1 | 21°36'43 | 28°51 | 9°29 | 5° 0 | 29°43 | 5° 6 | 20°42 | 4°44 | 25°49 | 13° 7 | 3°59 | 3°19 | 22°32 | 12° 3 | T 12 |
| F 13 | 11 22 58 | 22°36'24 | 11♑ 5 | 11°16 | 5°42 | 0♉26 | 5°20 | 20°39 | 4°45 | 25°50 | 13° 7 | 4° 0 | 3°16 | 22°39 | 12° 1 | F 13 |
| S 14 | 11 26 54 | 23°36'03 | 23°35 | 13° 4 | 6°22 | 1° 9 | 5°34 | 20°35 | 4°47 | 25°50 | 13° 7 | 4° 1 | 3°13 | 22°46 | 11°59 | S 14 |
| S 15 | 11 30 51 | 24°35'41 | 6♒26 | 14°53 | 7° 2 | 1°52 | 5°48 | 20°31 | 4°48 | 25°51 | 13° 8 | 4° 3 | 3°10 | 22°52 | 11°57 | S 15 |
| M16 | 11 34 48 | 25°35'17 | 19°39 | 16°44 | 7°40 | 2°34 | 6° 3 | 20°28 | 4°49 | 25°51 | 13° 8 | 4° 4 | 3° 6 | 22°59 | 11°54 | M16 |
| T 17 | 11 38 44 | 26°34'50 | 3♓16 | 18°36 | 8°17 | 3°17 | 6°17 | 20°24 | 4°50 | 25°52 | 13° 8 | 4°R 5 | 3° 3 | 23° 6 | 11°52 | T 17 |
| W18 | 11 42 41 | 27°34'22 | 17°17 | 20°29 | 8°52 | 4° 0 | 6°31 | 20°21 | 4°52 | 25°52 | 13° 9 | 4° 4 | 3° 0 | 23°12 | 11°50 | W18 |
| T 19 | 11 46 37 | 28°33'52 | 1♈38 | 22°23 | 9°26 | 4°43 | 6°45 | 20°18 | 4°53 | 25°52 | 13° 9 | 4° 3 | 2°57 | 23°19 | 11°47 | T 19 |
| F 20 | 11 50 34 | 29°33'20 | 16°14 | 24°18 | 9°59 | 5°25 | 6°58 | 20°14 | 4°54 | 25°53 | 13°10 | 4° 0 | 2°54 | 23°26 | 11°45 | F 20 |
| S 21 | 11 54 30 | 0♈32'46 | 0♉59 | 26°15 | 10°30 | 6° 8 | 7°12 | 20°11 | 4°55 | 25°53 | 13°10 | 3°56 | 2°50 | 23°33 | 11°42 | S 21 |
| S 22 | 11 58 27 | 1°32'09 | 15°44 | 28°13 | 11° 0 | 6°50 | 7°26 | 20° 8 | 4°56 | 25°53 | 13°11 | 3°52 | 2°47 | 23°39 | 11°39 | S 22 |
| M23 | 12 2 23 | 2°31'30 | 0♊23 | 0♈12 | 11°28 | 7°33 | 7°40 | 20° 5 | 4°57 | 25°53 | 13°11 | 3°49 | 2°44 | 23°46 | 11°37 | M23 |
| T 24 | 12 6 20 | 3°30'49 | 14°50 | 2°12 | 11°55 | 8°15 | 7°54 | 20° 2 | 4°57 | 25°53 | 13°12 | 3°46 | 2°41 | 23°53 | 11°34 | T 24 |
| W25 | 12 10 17 | 4°30'06 | 29° 2 | 4°13 | 12°20 | 8°58 | 8° 8 | 20° 0 | 4°58 | 25°54 | 13°13 | 3°D45 | 2°38 | 24° 0 | 11°31 | W25 |
| T 26 | 12 14 13 | 5°29'20 | 12♋55 | 6°15 | 12°43 | 9°40 | 8°21 | 19°57 | 4°59 | 25°54 | 13°13 | 3°45 | 2°35 | 24° 6 | 11°28 | T 26 |
| F 27 | 12 18 10 | 6°28'32 | 26°32 | 8°18 | 13° 4 | 10°22 | 8°35 | 19°54 | 5° 0 | 25°54 | 13°14 | 3°46 | 2°31 | 24°13 | 11°24 | F 27 |
| S 28 | 12 22 6 | 7°27'42 | 9♌51 | 10°22 | 13°23 | 11° 5 | 8°49 | 19°52 | 5° 0 | 25°R54 | 13°14 | 3°48 | 2°28 | 24°20 | 11°21 | S 28 |
| S 29 | 12 26 3 | 8°26'49 | 22°55 | 12°26 | 13°41 | 11°47 | 9° 2 | 19°49 | 5° 1 | 25°54 | 13°15 | 3°49 | 2°25 | 24°26 | 11°18 | S 29 |
| M30 | 12 29 59 | 9°25'54 | 5♍46 | 14°30 | 13°56 | 12°29 | 9°16 | 19°47 | 5° 1 | 25°54 | 13°16 | 3°R49 | 2°22 | 24°33 | 11°14 | M30 |
| T 31 | 12 33 56 | 10♈24'56 | 18♍25 | 16♈34 | 14♉ 9 | 13♉11 | 9♓29 | 19♌45 | 5♑ 2 | 25♐54 | 13♊17 | 3♓48 | 2♓19 | 24♏40 | 11♏11 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s36 | 18n44 | 1n54 | 16s20 | 1s59 | 13n11 | 3n14 | 8n32 | 0n 1 | 11s27 | 0s54 | 15n48 | 1n31 | 23s40 | 0s15 | 22s10 | 1n15 | 13n21 | 9s 8 | 10s 0 | 10s 6 | 22s58 | 14s21 | 1n16 |
| M 2 | 7 13 | 13 26 | 0 43 | 15 52 | 2 2 | 13 36 | 3 20 | 8 49 | 0 2 | 11 22 | 0 54 | 15 50 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 21 | 9 8 | 10 0 | 10 7 | 23 0 | 14 20 | 1 16 |
| T 3 | 6 50 | 7 38 | 0s29 | 15 23 | 2 5 | 14 1 | 3 27 | 9 6 | 0 3 | 11 17 | 0 54 | 15 51 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 21 | 9 8 | 10 0 | 10 8 | 23 2 | 14 19 | 1 17 |
| W 4 | 6 27 | 1 38 | 1 38 | 14 53 | 2 7 | 14 25 | 3 34 | 9 22 | 0 4 | 11 11 | 0 54 | 15 53 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 21 | 9 7 | 10 0 | 10 9 | 23 4 | 14 19 | 1 17 |
| T 5 | 6 4 | 4s19 | 2 41 | 14 21 | 2 9 | 14 49 | 3 41 | 9 39 | 0 4 | 11 6 | 0 54 | 15 54 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 22 | 9 7 | 10 1 | 10 10 | 23 6 | 14 18 | 1 18 |
| F 6 | 5 41 | 10 0 | 3 35 | 13 48 | 2 11 | 15 13 | 3 48 | 9 56 | 0 5 | 11 1 | 0 54 | 15 55 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 22 | 9 7 | 10 1 | 10 12 | 23 8 | 14 17 | 1 18 |
| S 7 | 5 17 | 15 13 | 4 19 | 13 14 | 2 12 | 15 36 | 3 55 | 10 12 | 0 6 | 10 56 | 0 54 | 15 57 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 22 | 9 7 | 10 2 | 10 13 | 23 10 | 14 16 | 1 19 |
| S 8 | 4 54 | 19 48 | 4 51 | 12 38 | 2 12 | 15 59 | 4 2 | 10 28 | 0 7 | 10 51 | 0 54 | 15 58 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 23 | 9 6 | 10 3 | 10 14 | 23 12 | 14 15 | 1 19 |
| M 9 | 4 31 | 23 33 | 5 10 | 12 1 | 2 13 | 16 22 | 4 9 | 10 45 | 0 7 | 10 46 | 0 54 | 15 59 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 23 | 9 6 | 10 3 | 10 15 | 23 14 | 14 14 | 1 20 |
| T 10 | 4 7 | 26 19 | 5 16 | 11 23 | 2 13 | 16 44 | 4 16 | 11 1 | 0 8 | 10 41 | 0 54 | 16 1 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 23 | 9 6 | 10 4 | 10 16 | 23 16 | 14 14 | 1 20 |
| W11 | 3 44 | 27 56 | 5 8 | 10 44 | 2 12 | 17 5 | 4 22 | 11 17 | 0 9 | 10 35 | 0 55 | 16 2 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 23 | 9 6 | 10 4 | 10 17 | 23 17 | 14 13 | 1 21 |
| T 12 | 3 20 | 28 15 | 4 47 | 10 3 | 2 11 | 17 26 | 4 29 | 11 33 | 0 10 | 10 30 | 0 55 | 16 3 | 1 31 | 23 40 | 0 15 | 22 10 | 1 15 | 13 24 | 9 5 | 10 4 | 10 19 | 23 19 | 14 12 | 1 21 |
| F 13 | 2 56 | 27 13 | 4 12 | 9 21 | 2 9 | 17 47 | 4 36 | 11 48 | 0 10 | 10 25 | 0 55 | 16 4 | 1 31 | 23 39 | 0 15 | 22 10 | 1 15 | 13 24 | 9 5 | 10 4 | 10 20 | 23 21 | 14 11 | 1 22 |
| S 14 | 2 33 | 24 47 | 3 25 | 8 37 | 2 7 | 18 7 | 4 43 | 12 4 | 0 11 | 10 20 | 0 55 | 16 6 | 1 31 | 23 39 | 0 15 | 22 10 | 1 15 | 13 24 | 9 5 | 10 3 | 10 21 | 23 23 | 14 10 | 1 22 |
| S 15 | 2 9 | 21 4 | 2 26 | 7 53 | 2 5 | 18 26 | 4 50 | 12 20 | 0 12 | 10 15 | 0 55 | 16 7 | 1 31 | 23 39 | 0 15 | 22 10 | 1 15 | 13 24 | 9 5 | 10 3 | 10 22 | 23 25 | 14 8 | 1 22 |
| M16 | 1 45 | 16 12 | 1 19 | 7 7 | 2 2 | 18 45 | 4 56 | 12 35 | 0 12 | 10 10 | 0 55 | 16 8 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 25 | 9 4 | 10 2 | 10 23 | 23 27 | 14 7 | 1 23 |
| T 17 | 1 22 | 10 24 | 0 4 | 6 20 | 1 58 | 19 4 | 5 3 | 12 50 | 0 13 | 10 5 | 0 55 | 16 9 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 25 | 9 4 | 10 2 | 10 24 | 23 29 | 14 6 | 1 23 |
| W18 | 0 58 | 3 56 | 1n12 | 5 32 | 1 54 | 19 21 | 5 9 | 13 5 | 0 14 | 10 0 | 0 55 | 16 10 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 25 | 9 4 | 10 2 | 10 25 | 23 31 | 14 5 | 1 24 |
| T 19 | 0 34 | 2n53 | 2 26 | 4 42 | 1 49 | 19 39 | 5 16 | 13 20 | 0 14 | 9 55 | 0 55 | 16 11 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 26 | 9 4 | 10 3 | 10 27 | 23 33 | 14 4 | 1 24 |
| F 20 | 0 11 | 9 39 | 3 31 | 3 52 | 1 44 | 19 55 | 5 22 | 13 35 | 0 15 | 9 50 | 0 55 | 16 12 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 26 | 9 4 | 10 4 | 10 28 | 23 35 | 14 3 | 1 25 |
| S 21 | 0n13 | 15 56 | 4 23 | 3 0 | 1 39 | 20 11 | 5 28 | 13 50 | 0 16 | 9 44 | 0 56 | 16 13 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 26 | 9 3 | 10 5 | 10 29 | 23 36 | 14 1 | 1 25 |
| S 22 | 0 37 | 21 19 | 4 57 | 2 7 | 1 32 | 20 27 | 5 34 | 14 5 | 0 16 | 9 39 | 0 56 | 16 14 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 26 | 9 3 | 10 7 | 10 30 | 23 38 | 14 0 | 1 26 |
| M23 | 1 0 | 25 21 | 5 12 | 1 14 | 1 26 | 20 41 | 5 40 | 14 19 | 0 17 | 9 34 | 0 56 | 16 15 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 27 | 9 3 | 10 8 | 10 31 | 23 40 | 13 59 | 1 26 |
| T 24 | 1 24 | 27 42 | 5 7 | 0 19 | 1 18 | 20 55 | 5 46 | 14 34 | 0 18 | 9 29 | 0 56 | 16 16 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 27 | 9 3 | 10 9 | 10 32 | 23 42 | 13 58 | 1 27 |
| W25 | 1 48 | 28 12 | 4 43 | 0n36 | 1 11 | 21 8 | 5 52 | 14 48 | 0 18 | 9 24 | 0 56 | 16 17 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 27 | 9 2 | 10 9 | 10 33 | 23 44 | 13 56 | 1 27 |
| T 26 | 2 11 | 26 53 | 4 3 | 1 32 | 1 2 | 21 21 | 5 57 | 15 2 | 0 19 | 9 19 | 0 56 | 16 17 | 1 31 | 23 39 | 0 16 | 22 10 | 1 15 | 13 28 | 9 2 | 10 9 | 10 35 | 23 46 | 13 55 | 1 27 |
| F 27 | 2 35 | 23 59 | 3 10 | 2 29 | 0 54 | 21 32 | 6 2 | 15 16 | 0 20 | 9 14 | 0 56 | 16 18 | 1 31 | 23 39 | 0 16 | 22 10 | 1 16 | 13 28 | 9 2 | 10 9 | 10 36 | 23 48 | 13 53 | 1 28 |
| S 28 | 2 58 | 19 51 | 2 7 | 3 26 | 0 44 | 21 43 | 6 8 | 15 30 | 0 20 | 9 9 | 0 56 | 16 19 | 1 30 | 23 39 | 0 16 | 22 10 | 1 16 | 13 28 | 9 2 | 10 8 | 10 37 | 23 49 | 13 52 | 1 28 |
| S 29 | 3 21 | 14 50 | 0 59 | 4 23 | 0 35 | 21 53 | 6 12 | 15 44 | 0 21 | 9 4 | 0 57 | 16 20 | 1 30 | 23 39 | 0 16 | 22 10 | 1 16 | 13 29 | 9 2 | 10 8 | 10 38 | 23 51 | 13 51 | 1 29 |
| M30 | 3 45 | 9 15 | 0s11 | 5 21 | 0 25 | 22 2 | 6 17 | 15 57 | 0 21 | 8 59 | 0 57 | 16 20 | 1 30 | 23 39 | 0 16 | 22 10 | 1 16 | 13 29 | 9 1 | 10 8 | 10 39 | 23 53 | 13 49 | 1 29 |
| T 31 | 4n 8 | 3n23 | 1s19 | 6n18 | 0s14 | 22n11 | 6n21 | 16n11 | 0n22 | 8s54 | 0s57 | 16n21 | 1n30 | 23s39 | 0s16 | 22s10 | 1n16 | 13n29 | 9s 1 | 10s 8 | 10s40 | 23s55 | 13s48 | 1n30 |

Julian Day Number = 2325230.5, Delta T = 40.41 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'47, Lahiri = 19°01'48Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## APRIL 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 37 52 | 11♈23'56 | 0♎53 | 18♈38 | 14♉20 | 13♉53 | 9♓42 | 19°R43 | 5♑ 2 | 25°R53 | 13♊17 | 3°R46 | 2♓15 | 24♏47 | 11°R 7 | W 1 |
| T 2 | 12 41 49 | 12°22'55 | 13°12 | 20°41 | 14°29 | 14°35 | 9°56 | 19♌41 | 5° 3 | 25♐53 | 13°18 | 3♓41 | 2°12 | 24°53 | 11♏ 4 | T 2 |
| F 3 | 12 45 45 | 13°21'51 | 25°22 | 22°44 | 14°36 | 15°17 | 10° 9 | 19°39 | 5° 3 | 25°53 | 13°19 | 3°34 | 2° 9 | 25° 0 | 11° 0 | F 3 |
| S 4 | 12 49 42 | 14°20'45 | 7♏25 | 24°45 | 14°40 | 15°59 | 10°22 | 19°37 | 5° 3 | 25°53 | 13°20 | 3°27 | 2° 6 | 25° 7 | 10°56 | S 4 |
| S 5 | 12 53 39 | 15°19'38 | 19°22 | 26°45 | 14°R42 | 16°41 | 10°35 | 19°35 | 5° 3 | 25°53 | 13°20 | 3°19 | 2° 3 | 25°13 | 10°52 | S 5 |
| M 6 | 12 57 35 | 16°18'28 | 1♐15 | 28°43 | 14°42 | 17°23 | 10°49 | 19°34 | 5° 4 | 25°52 | 13°21 | 3°12 | 2° 0 | 25°20 | 10°49 | M 6 |
| T 7 | 13 1 32 | 17°17'17 | 13° 7 | 0♉39 | 14°39 | 18° 5 | 11° 2 | 19°32 | 5° 4 | 25°52 | 13°22 | 3° 5 | 1°56 | 25°27 | 10°45 | T 7 |
| W 8 | 13 5 28 | 18°16'04 | 25° 1 | 2°32 | 14°34 | 18°47 | 11°15 | 19°31 | 5° 4 | 25°52 | 13°23 | 3° 0 | 1°53 | 25°34 | 10°41 | W 8 |
| T 9 | 13 9 25 | 19°14'49 | 7♑ 1 | 4°23 | 14°26 | 19°29 | 11°28 | 19°30 | 5°R 4 | 25°51 | 13°24 | 2°58 | 1°50 | 25°40 | 10°37 | T 9 |
| F 10 | 13 13 21 | 20°13'32 | 19°12 | 6°10 | 14°16 | 20°10 | 11°40 | 19°28 | 5° 4 | 25°51 | 13°25 | 2°D57 | 1°47 | 25°47 | 10°33 | F 10 |
| S 11 | 13 17 18 | 21°12'14 | 1♒39 | 7°53 | 14° 3 | 20°52 | 11°53 | 19°27 | 5° 4 | 25°51 | 13°26 | 2°57 | 1°44 | 25°54 | 10°28 | S 11 |
| S 12 | 13 21 14 | 22°10'54 | 14°25 | 9°33 | 13°48 | 21°34 | 12° 6 | 19°26 | 5° 4 | 25°50 | 13°26 | 2°58 | 1°41 | 26° 1 | 10°24 | S 12 |
| M13 | 13 25 11 | 23° 9'32 | 27°36 | 11° 9 | 13°31 | 22°15 | 12°19 | 19°25 | 5° 3 | 25°50 | 13°27 | 2°R59 | 1°37 | 26° 7 | 10°20 | M13 |
| T 14 | 13 29 8 | 24° 8'09 | 11♓14 | 12°41 | 13°11 | 22°57 | 12°31 | 19°25 | 5° 3 | 25°49 | 13°28 | 2°59 | 1°34 | 26°14 | 10°16 | T 14 |
| W15 | 13 33 4 | 25° 6'44 | 25°20 | 14° 8 | 12°49 | 23°38 | 12°44 | 19°24 | 5° 3 | 25°48 | 13°29 | 2°57 | 1°31 | 26°21 | 10°11 | W15 |
| T 16 | 13 37 1 | 26° 5'17 | 9♈52 | 15°30 | 12°24 | 24°20 | 12°56 | 19°23 | 5° 3 | 25°48 | 13°30 | 2°53 | 1°28 | 26°27 | 10° 7 | T 16 |
| F 17 | 13 40 57 | 27° 3'48 | 24°45 | 16°48 | 11°58 | 25° 1 | 13° 9 | 19°23 | 5° 2 | 25°47 | 13°31 | 2°46 | 1°25 | 26°34 | 10° 3 | F 17 |
| S 18 | 13 44 54 | 28° 2'17 | 9♉51 | 18° 1 | 11°30 | 25°43 | 13°21 | 19°23 | 5° 2 | 25°47 | 13°32 | 2°38 | 1°21 | 26°41 | 9°58 | S 18 |
| S 19 | 13 48 50 | 29° 0'45 | 25° 0 | 19° 9 | 10°59 | 26°24 | 13°33 | 19°22 | 5° 1 | 25°46 | 13°33 | 2°30 | 1°18 | 26°48 | 9°54 | S 19 |
| M20 | 13 52 47 | 29°59'10 | 10♊ 2 | 20°12 | 10°28 | 27° 5 | 13°45 | 19°22 | 5° 1 | 25°45 | 13°34 | 2°22 | 1°15 | 26°54 | 9°49 | M20 |
| T 21 | 13 56 43 | 0♉57'34 | 24°48 | 21°10 | 9°54 | 27°47 | 13°57 | 19°D22 | 5° 0 | 25°44 | 13°35 | 2°15 | 1°12 | 27° 1 | 9°45 | T 21 |
| W22 | 14 0 40 | 1°55'55 | 9♋12 | 22° 2 | 9°20 | 28°28 | 14° 9 | 19°22 | 5° 0 | 25°44 | 13°37 | 2°11 | 1° 9 | 27° 8 | 9°40 | W22 |
| T 23 | 14 4 37 | 2°54'14 | 23°11 | 22°49 | 8°44 | 29° 9 | 14°21 | 19°22 | 4°59 | 25°43 | 13°38 | 2° 9 | 1° 6 | 27°14 | 9°36 | T 23 |
| F 24 | 14 8 33 | 3°52'31 | 6♌46 | 23°31 | 8° 7 | 29°50 | 14°33 | 19°23 | 4°58 | 25°42 | 13°39 | 2°D 8 | 1° 2 | 27°21 | 9°31 | F 24 |
| S 25 | 14 12 30 | 4°50'46 | 19°58 | 24° 8 | 7°30 | 0♊32 | 14°45 | 19°23 | 4°57 | 25°41 | 13°40 | 2° 9 | 0°59 | 27°28 | 9°26 | S 25 |
| S 26 | 14 16 26 | 5°48'59 | 2♍50 | 24°39 | 6°52 | 1°13 | 14°56 | 19°24 | 4°57 | 25°40 | 13°41 | 2°R 9 | 0°56 | 27°35 | 9°22 | S 26 |
| M27 | 14 20 23 | 6°47'09 | 15°27 | 25° 4 | 6°14 | 1°54 | 15° 8 | 19°24 | 4°56 | 25°39 | 13°42 | 2° 8 | 0°53 | 27°41 | 9°17 | M27 |
| T 28 | 14 24 19 | 7°45'18 | 27°50 | 25°24 | 5°36 | 2°35 | 15°19 | 19°25 | 4°55 | 25°39 | 13°43 | 2° 6 | 0°50 | 27°48 | 9°13 | T 28 |
| W29 | 14 28 16 | 8°43'25 | 10♎ 4 | 25°39 | 4°59 | 3°16 | 15°31 | 19°26 | 4°54 | 25°38 | 13°44 | 2° 0 | 0°47 | 27°55 | 9° 8 | W29 |
| T 30 | 14 32 12 | 9♉41'30 | 22♎11 | 25♉48 | 4♉22 | 3♊57 | 15♓42 | 19♌27 | 4♑53 | 25♐37 | 13♊46 | 1♓52 | 0♓43 | 28♏ 2 | 9♏ 4 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 4n31 | 2s31 | 2s22 | 7n16 | 0s 4 | 22n18 | 6n25 | 16n24 | 0n23 | 8s49 | 0s57 | 16n22 | 1n30 | 23s39 | 0s16 | 22s10 | 1n16 | 13n29 | 9s 1 | 10s 9 | 10s41 | 23s57 | 13s46 | 1n30 |
| T 2 | 4 54 | 8 15 | 3 17 | 8 12 | 0n 7 | 22 24 | 6 29 | 16 37 | 0 23 | 8 45 | 0 57 | 16 22 | 1 30 | 23 39 | 0 16 | 22 10 | 1 16 | 13 30 | 9 1 | 10 11 | 10 43 | 23 58 | 13 45 | 1 30 |
| F 3 | 5 17 | 13 36 | 4 3 | 9 9 | 0 19 | 22 29 | 6 33 | 16 50 | 0 24 | 8 40 | 0 57 | 16 23 | 1 30 | 23 39 | 0 16 | 22 10 | 1 16 | 13 30 | 9 0 | 10 13 | 10 44 | 24 0 | 13 43 | 1 31 |
| S 4 | 5 40 | 18 23 | 4 37 | 10 4 | 0 30 | 22 34 | 6 36 | 17 3 | 0 24 | 8 35 | 0 57 | 16 23 | 1 30 | 23 39 | 0 16 | 22 10 | 1 16 | 13 30 | 9 0 | 10 16 | 10 45 | 24 2 | 13 41 | 1 31 |
| S 5 | 6 3 | 22 24 | 4 59 | 10 59 | 0 41 | 22 37 | 6 38 | 17 15 | 0 25 | 8 30 | 0 57 | 16 24 | 1 30 | 23 39 | 0 16 | 22 10 | 1 16 | 13 31 | 9 0 | 10 19 | 10 46 | 24 4 | 13 40 | 1 32 |
| M 6 | 6 26 | 25 28 | 5 8 | 11 52 | 0 53 | 22 39 | 6 41 | 17 28 | 0 26 | 8 25 | 0 58 | 16 24 | 1 30 | 23 39 | 0 16 | 22 9 | 1 16 | 13 31 | 9 0 | 10 21 | 10 47 | 24 5 | 13 38 | 1 32 |
| T 7 | 6 48 | 27 26 | 5 4 | 12 43 | 1 4 | 22 40 | 6 42 | 17 40 | 0 26 | 8 20 | 0 58 | 16 25 | 1 30 | 23 39 | 0 16 | 22 9 | 1 16 | 13 31 | 9 0 | 10 24 | 10 48 | 24 7 | 13 37 | 1 33 |
| W 8 | 7 11 | 28 9 | 4 46 | 13 33 | 1 15 | 22 39 | 6 44 | 17 52 | 0 27 | 8 15 | 0 58 | 16 25 | 1 30 | 23 39 | 0 16 | 22 9 | 1 16 | 13 32 | 8 59 | 10 25 | 10 49 | 24 9 | 13 35 | 1 33 |
| T 9 | 7 33 | 27 33 | 4 16 | 14 21 | 1 26 | 22 38 | 6 45 | 18 4 | 0 27 | 8 11 | 0 58 | 16 25 | 1 30 | 23 39 | 0 16 | 22 9 | 1 16 | 13 32 | 8 59 | 10 26 | 10 51 | 24 11 | 13 33 | 1 33 |
| F 10 | 7 55 | 25 38 | 3 34 | 15 7 | 1 36 | 22 35 | 6 45 | 18 16 | 0 28 | 8 6 | 0 58 | 16 26 | 1 30 | 23 39 | 0 16 | 22 9 | 1 16 | 13 32 | 8 59 | 10 27 | 10 52 | 24 12 | 13 32 | 1 34 |
| S 11 | 8 17 | 22 27 | 2 41 | 15 50 | 1 46 | 22 31 | 6 44 | 18 28 | 0 29 | 8 1 | 0 58 | 16 26 | 1 30 | 23 39 | 0 16 | 22 9 | 1 16 | 13 32 | 8 59 | 10 26 | 10 53 | 24 14 | 13 30 | 1 34 |
| S 12 | 8 39 | 18 6 | 1 38 | 16 31 | 1 55 | 22 25 | 6 44 | 18 39 | 0 29 | 7 56 | 0 59 | 16 26 | 1 30 | 23 39 | 0 16 | 22 9 | 1 16 | 13 33 | 8 59 | 10 26 | 10 54 | 24 16 | 13 28 | 1 35 |
| M13 | 9 1 | 12 47 | 0 29 | 17 10 | 2 4 | 22 18 | 6 42 | 18 51 | 0 30 | 7 52 | 0 59 | 16 26 | 1 30 | 23 40 | 0 16 | 22 9 | 1 16 | 13 33 | 8 58 | 10 26 | 10 55 | 24 18 | 13 27 | 1 35 |
| T 14 | 9 23 | 6 41 | 0n44 | 17 46 | 2 12 | 22 10 | 6 40 | 19 2 | 0 30 | 7 47 | 0 59 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 33 | 8 58 | 10 26 | 10 56 | 24 19 | 13 25 | 1 35 |
| W15 | 9 44 | 0 4 | 1 57 | 18 20 | 2 20 | 22 0 | 6 37 | 19 13 | 0 31 | 7 42 | 0 59 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 34 | 8 58 | 10 27 | 10 57 | 24 21 | 13 23 | 1 36 |
| T 16 | 10 6 | 6n44 | 3 4 | 18 51 | 2 26 | 21 49 | 6 34 | 19 24 | 0 31 | 7 38 | 0 59 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 34 | 8 58 | 10 28 | 10 59 | 24 23 | 13 21 | 1 36 |
| F 17 | 10 27 | 13 20 | 4 1 | 19 19 | 2 32 | 21 37 | 6 29 | 19 34 | 0 32 | 7 33 | 0 59 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 34 | 8 58 | 10 30 | 11 0 | 24 24 | 13 20 | 1 37 |
| S 18 | 10 48 | 19 14 | 4 41 | 19 45 | 2 37 | 21 23 | 6 24 | 19 45 | 0 32 | 7 28 | 1 0 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 35 | 8 57 | 10 33 | 11 1 | 24 26 | 13 18 | 1 37 |
| S 19 | 11 9 | 23 56 | 5 2 | 20 8 | 2 41 | 21 8 | 6 19 | 19 55 | 0 33 | 7 24 | 1 0 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 35 | 8 57 | 10 36 | 11 2 | 24 28 | 13 16 | 1 37 |
| M20 | 11 29 | 26 59 | 5 2 | 20 28 | 2 44 | 20 52 | 6 12 | 20 5 | 0 33 | 7 19 | 1 0 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 35 | 8 57 | 10 39 | 11 3 | 24 29 | 13 14 | 1 38 |
| T 21 | 11 50 | 28 5 | 4 42 | 20 46 | 2 47 | 20 34 | 6 5 | 20 15 | 0 34 | 7 15 | 1 0 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 35 | 8 57 | 10 42 | 11 4 | 24 31 | 13 13 | 1 38 |
| W22 | 12 10 | 27 13 | 4 4 | 21 1 | 2 48 | 20 15 | 5 57 | 20 25 | 0 34 | 7 10 | 1 0 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 36 | 8 57 | 10 43 | 11 5 | 24 33 | 13 11 | 1 39 |
| T 23 | 12 30 | 24 39 | 3 12 | 21 13 | 2 48 | 19 55 | 5 48 | 20 35 | 0 35 | 7 6 | 1 0 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 36 | 8 57 | 10 44 | 11 6 | 24 34 | 13 9 | 1 39 |
| F 24 | 12 50 | 20 44 | 2 11 | 21 22 | 2 46 | 19 35 | 5 39 | 20 44 | 0 35 | 7 2 | 1 1 | 16 27 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 36 | 8 56 | 10 44 | 11 8 | 24 36 | 13 7 | 1 39 |
| S 25 | 13 10 | 15 53 | 1 5 | 21 30 | 2 44 | 19 13 | 5 29 | 20 53 | 0 36 | 6 57 | 1 1 | 16 26 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 37 | 8 56 | 10 44 | 11 9 | 24 38 | 13 5 | 1 40 |
| S 26 | 13 29 | 10 26 | 0s 4 | 21 34 | 2 41 | 18 50 | 5 18 | 21 2 | 0 36 | 6 53 | 1 1 | 16 26 | 1 29 | 23 40 | 0 16 | 22 9 | 1 16 | 13 37 | 8 56 | 10 44 | 11 10 | 24 39 | 13 4 | 1 40 |
| M27 | 13 48 | 4 40 | 1 10 | 21 36 | 2 36 | 18 26 | 5 7 | 21 11 | 0 37 | 6 49 | 1 1 | 16 26 | 1 28 | 23 40 | 0 16 | 22 8 | 1 16 | 13 37 | 8 56 | 10 44 | 11 11 | 24 41 | 13 2 | 1 40 |
| T 28 | 14 7 | 1s10 | 2 12 | 21 35 | 2 30 | 18 2 | 4 55 | 21 20 | 0 37 | 6 44 | 1 1 | 16 26 | 1 28 | 23 40 | 0 16 | 22 8 | 1 17 | 13 37 | 8 56 | 10 45 | 11 12 | 24 43 | 13 0 | 1 41 |
| W29 | 14 26 | 6 52 | 3 7 | 21 32 | 2 23 | 17 38 | 4 42 | 21 28 | 0 38 | 6 40 | 1 2 | 16 25 | 1 28 | 23 40 | 0 16 | 22 8 | 1 17 | 13 38 | 8 56 | 10 47 | 11 13 | 24 44 | 12 58 | 1 41 |
| T 30 | 14n45 | 12s15 | 3s53 | 21n26 | 2n15 | 17n13 | 4n29 | 21n36 | 0n38 | 6s36 | 1s 2 | 16n25 | 1n28 | 23s40 | 0s17 | 22s 8 | 1n17 | 13n38 | 8s55 | 10s50 | 11s14 | 24s46 | 12s57 | 1n41 |

Julian Day Number = 2325261.5, Delta T = 40.35 sec
Ecliptic obliquity = 23°29'12, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'51, Lahiri = 19°01'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## MAY 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 36 9 | 10♉39'33 | 4♏11 | 25°R52 | 3°R46 | 4♊37 | 15♓53 | 19♌28 | 4°R52 | 25°R36 | 13♊47 | 1°R41 | 0♓40 | 28♏ 8 | 8°R59 | F 1 |
| S 2 | 14 40 6 | 11°37'35 | 16° 8 | 25♉51 | 3♉11 | 5°18 | 16° 4 | 19°29 | 4♑51 | 25♐35 | 13°48 | 1♓29 | 0°37 | 28°15 | 8♏54 | S 2 |
| S 3 | 14 44 2 | 12°35'35 | 28° 2 | 25°45 | 2°37 | 5°59 | 16°15 | 19°30 | 4°50 | 25°34 | 13°49 | 1°16 | 0°34 | 28°22 | 8°50 | S 3 |
| M 4 | 14 47 59 | 13°33'33 | 9♐54 | 25°34 | 2° 5 | 6°40 | 16°26 | 19°32 | 4°48 | 25°32 | 13°50 | 1° 3 | 0°31 | 28°28 | 8°45 | M 4 |
| T 5 | 14 51 55 | 14°31'30 | 21°47 | 25°19 | 1°34 | 7°21 | 16°37 | 19°33 | 4°47 | 25°31 | 13°52 | 0°52 | 0°27 | 28°35 | 8°41 | T 5 |
| W 6 | 14 55 52 | 15°29'26 | 3♑43 | 24°59 | 1° 5 | 8° 1 | 16°48 | 19°35 | 4°46 | 25°30 | 13°53 | 0°43 | 0°24 | 28°42 | 8°36 | W 6 |
| T 7 | 14 59 48 | 16°27'20 | 15°44 | 24°36 | 0°39 | 8°42 | 16°58 | 19°36 | 4°45 | 25°29 | 13°54 | 0°37 | 0°21 | 28°49 | 8°32 | T 7 |
| F 8 | 15 3 45 | 17°25'13 | 27°54 | 24° 9 | 0°14 | 9°22 | 17° 9 | 19°38 | 4°43 | 25°28 | 13°55 | 0°33 | 0°18 | 28°55 | 8°27 | F 8 |
| S 9 | 15 7 41 | 18°23'04 | 10♒19 | 23°40 | 29♈51 | 10° 3 | 17°19 | 19°40 | 4°42 | 25°27 | 13°57 | 0°32 | 0°15 | 29° 2 | 8°23 | S 9 |
| S 10 | 15 11 38 | 19°20'55 | 23° 1 | 23° 8 | 29°31 | 10°44 | 17°30 | 19°42 | 4°40 | 25°26 | 13°58 | 0°32 | 0°12 | 29° 9 | 8°18 | S 10 |
| M11 | 15 15 35 | 20°18'44 | 6♓ 6 | 22°35 | 29°13 | 11°24 | 17°40 | 19°44 | 4°39 | 25°24 | 13°59 | 0°32 | 0° 8 | 29°16 | 8°14 | M11 |
| T 12 | 15 19 31 | 21°16'32 | 19°38 | 22° 0 | 28°57 | 12° 5 | 17°50 | 19°46 | 4°37 | 25°23 | 14° 1 | 0°31 | 0° 5 | 29°22 | 8° 9 | T 12 |
| W13 | 15 23 28 | 22°14'18 | 3♈39 | 21°25 | 28°44 | 12°45 | 18° 0 | 19°48 | 4°36 | 25°22 | 14° 2 | 0°28 | 0° 2 | 29°29 | 8° 5 | W13 |
| T 14 | 15 27 24 | 23°12'04 | 18° 8 | 20°50 | 28°34 | 13°25 | 18°10 | 19°51 | 4°34 | 25°20 | 14° 3 | 0°22 | 29♒59 | 29°36 | 8° 1 | T 14 |
| F 15 | 15 31 21 | 24° 9'48 | 3♉ 3 | 20°16 | 28°25 | 14° 6 | 18°19 | 19°53 | 4°33 | 25°19 | 14° 4 | 0°14 | 29°56 | 29°42 | 7°56 | F 15 |
| S 16 | 15 35 17 | 25° 7'32 | 18°15 | 19°43 | 28°19 | 14°46 | 18°29 | 19°56 | 4°31 | 25°18 | 14° 6 | 0° 4 | 29°53 | 29°49 | 7°52 | S 16 |
| S 17 | 15 39 14 | 26° 5'14 | 3♊34 | 19°12 | 28°16 | 15°26 | 18°38 | 19°59 | 4°29 | 25°17 | 14° 7 | 29♒53 | 29°49 | 29°56 | 7°48 | S 17 |
| M18 | 15 43 10 | 27° 2'55 | 18°50 | 18°43 | 28°D15 | 16° 7 | 18°48 | 20° 1 | 4°28 | 25°15 | 14° 8 | 29°42 | 29°46 | 0♐ 3 | 7°44 | M18 |
| T 19 | 15 47 7 | 28° 0'34 | 3♋50 | 18°18 | 28°16 | 16°47 | 18°57 | 20° 4 | 4°26 | 25°14 | 14°10 | 29°34 | 29°43 | 0° 9 | 7°40 | T 19 |
| W20 | 15 51 4 | 28°58'12 | 18°27 | 17°55 | 28°19 | 17°27 | 19° 6 | 20° 7 | 4°24 | 25°12 | 14°11 | 29°27 | 29°40 | 0°16 | 7°35 | W20 |
| T 21 | 15 55 0 | 29°55'49 | 2♌37 | 17°36 | 28°25 | 18° 7 | 19°15 | 20°10 | 4°22 | 25°11 | 14°13 | 29°24 | 29°37 | 0°23 | 7°31 | T 21 |
| F 22 | 15 58 57 | 0♊53'23 | 16°18 | 17°20 | 28°33 | 18°48 | 19°24 | 20°13 | 4°20 | 25°10 | 14°14 | 29°22 | 29°33 | 0°29 | 7°27 | F 22 |
| S 23 | 16 2 53 | 1°50'57 | 29°32 | 17° 9 | 28°43 | 19°28 | 19°33 | 20°17 | 4°18 | 25° 8 | 14°15 | 29°22 | 29°30 | 0°36 | 7°24 | S 23 |
| S 24 | 16 6 50 | 2°48'29 | 12♍22 | 17° 2 | 28°55 | 20° 8 | 19°41 | 20°20 | 4°17 | 25° 7 | 14°17 | 29°22 | 29°27 | 0°43 | 7°20 | S 24 |
| M25 | 16 10 46 | 3°45'59 | 24°54 | 16°D59 | 29° 9 | 20°48 | 19°50 | 20°23 | 4°15 | 25° 5 | 14°18 | 29°20 | 29°24 | 0°50 | 7°16 | M25 |
| T 26 | 16 14 43 | 4°43'28 | 7♎11 | 17° 1 | 29°25 | 21°28 | 19°58 | 20°27 | 4°13 | 25° 4 | 14°19 | 29°17 | 29°21 | 0°56 | 7°12 | T 26 |
| W27 | 16 18 39 | 5°40'56 | 19°17 | 17° 7 | 29°43 | 22° 8 | 20° 6 | 20°30 | 4°11 | 25° 2 | 14°21 | 29°11 | 29°18 | 1° 3 | 7° 9 | W27 |
| T 28 | 16 22 36 | 6°38'23 | 1♏16 | 17°17 | 0♉ 3 | 22°48 | 20°14 | 20°34 | 4° 8 | 25° 1 | 14°22 | 29° 3 | 29°14 | 1°10 | 7° 5 | T 28 |
| F 29 | 16 26 33 | 7°35'49 | 13°11 | 17°32 | 0°25 | 23°28 | 20°22 | 20°38 | 4° 6 | 24°59 | 14°24 | 28°51 | 29°11 | 1°17 | 7° 1 | F 29 |
| S 30 | 16 30 29 | 8°33'13 | 25° 3 | 17°52 | 0°48 | 24° 7 | 20°30 | 20°42 | 4° 4 | 24°58 | 14°25 | 28°39 | 29° 8 | 1°23 | 6°58 | S 30 |
| S 31 | 16 34 26 | 9♊30'37 | 6♐56 | 18♉16 | 1♉13 | 24♊47 | 20♓38 | 20♌46 | 4♑ 2 | 24♐56 | 14♊26 | 28♒25 | 29♒ 5 | 1♐30 | 6♏55 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 15n 3 | 17s 8 | 4s28 | 21n18 | 2n 6 | 16n48 | 4n16 | 21n45 | 0n39 | 6s32 | 1s 2 | 16n24 | 1n28 | 23s40 | 0s17 | 22s 8 | 1n17 | 13n38 | 8s55 | 10s54 | 11s15 | 24s47 | 12s55 | 1n42 |
| S 2 | 15 21 | 21 20 | 4 50 | 21 8 | 1 55 | 16 24 | 4 3 | 21 52 | 0 39 | 6 27 | 1 2 | 16 24 | 1 28 | 23 40 | 0 17 | 22 8 | 1 17 | 13 39 | 8 55 | 10 58 | 11 17 | 24 49 | 12 53 | 1 42 |
| S 3 | 15 39 | 24 38 | 5 0 | 20 55 | 1 44 | 15 59 | 3 49 | 22 0 | 0 40 | 6 23 | 1 2 | 16 23 | 1 28 | 23 40 | 0 17 | 22 8 | 1 17 | 13 39 | 8 55 | 11 3 | 11 18 | 24 51 | 12 51 | 1 42 |
| M 4 | 15 56 | 26 53 | 4 57 | 20 40 | 1 31 | 15 34 | 3 35 | 22 8 | 0 40 | 6 19 | 1 3 | 16 23 | 1 28 | 23 41 | 0 17 | 22 8 | 1 17 | 13 39 | 8 55 | 11 7 | 11 19 | 24 52 | 12 49 | 1 43 |
| T 5 | 16 14 | 27 55 | 4 41 | 20 23 | 1 17 | 15 10 | 3 20 | 22 15 | 0 41 | 6 15 | 1 3 | 16 22 | 1 28 | 23 41 | 0 17 | 22 8 | 1 17 | 13 39 | 8 55 | 11 11 | 11 20 | 24 54 | 12 48 | 1 43 |
| W 6 | 16 31 | 27 39 | 4 13 | 20 4 | 1 3 | 14 47 | 3 6 | 22 22 | 0 41 | 6 11 | 1 3 | 16 22 | 1 28 | 23 41 | 0 17 | 22 8 | 1 17 | 13 40 | 8 55 | 11 14 | 11 21 | 24 55 | 12 46 | 1 43 |
| T 7 | 16 47 | 26 5 | 3 33 | 19 43 | 0 47 | 14 24 | 2 52 | 22 29 | 0 42 | 6 7 | 1 3 | 16 21 | 1 28 | 23 41 | 0 17 | 22 8 | 1 17 | 13 40 | 8 54 | 11 17 | 11 22 | 24 57 | 12 44 | 1 44 |
| F 8 | 17 4 | 23 17 | 2 43 | 19 21 | 0 31 | 14 2 | 2 37 | 22 36 | 0 42 | 6 3 | 1 3 | 16 21 | 1 28 | 23 41 | 0 17 | 22 8 | 1 17 | 13 40 | 8 54 | 11 18 | 11 23 | 24 58 | 12 42 | 1 44 |
| S 9 | 17 20 | 19 22 | 1 45 | 18 58 | 0 15 | 13 40 | 2 23 | 22 42 | 0 43 | 6 0 | 1 4 | 16 20 | 1 28 | 23 41 | 0 17 | 22 8 | 1 17 | 13 41 | 8 54 | 11 18 | 11 24 | 25 0 | 12 41 | 1 44 |
| S 10 | 17 36 | 14 30 | 0 40 | 18 33 | 0s 3 | 13 20 | 2 9 | 22 48 | 0 43 | 5 56 | 1 4 | 16 19 | 1 27 | 23 41 | 0 17 | 22 8 | 1 17 | 13 41 | 8 54 | 11 18 | 11 26 | 25 1 | 12 39 | 1 45 |
| M11 | 17 52 | 8 50 | 0n29 | 18 8 | 0 20 | 13 0 | 1 55 | 22 55 | 0 43 | 5 52 | 1 4 | 16 19 | 1 27 | 23 41 | 0 17 | 22 8 | 1 17 | 13 41 | 8 54 | 11 19 | 11 27 | 25 3 | 12 37 | 1 45 |
| T 12 | 18 7 | 2 35 | 1 39 | 17 42 | 0 38 | 12 42 | 1 41 | 23 0 | 0 44 | 5 48 | 1 4 | 16 18 | 1 27 | 23 41 | 0 17 | 22 8 | 1 17 | 13 41 | 8 54 | 11 19 | 11 28 | 25 4 | 12 36 | 1 45 |
| W13 | 18 22 | 3n59 | 2 45 | 17 16 | 0 55 | 12 24 | 1 27 | 23 6 | 0 44 | 5 45 | 1 4 | 16 17 | 1 27 | 23 41 | 0 17 | 22 8 | 1 17 | 13 42 | 8 54 | 11 20 | 11 29 | 25 6 | 12 34 | 1 45 |
| T 14 | 18 37 | 10 34 | 3 43 | 16 50 | 1 12 | 12 8 | 1 14 | 23 12 | 0 45 | 5 41 | 1 5 | 16 16 | 1 27 | 23 41 | 0 17 | 22 7 | 1 17 | 13 42 | 8 54 | 11 22 | 11 30 | 25 7 | 12 32 | 1 46 |
| F 15 | 18 51 | 16 44 | 4 27 | 16 25 | 1 29 | 11 52 | 1 0 | 23 17 | 0 45 | 5 37 | 1 5 | 16 15 | 1 27 | 23 41 | 0 17 | 22 7 | 1 17 | 13 42 | 8 54 | 11 25 | 11 31 | 25 9 | 12 31 | 1 46 |
| S 16 | 19 5 | 22 0 | 4 54 | 16 0 | 1 45 | 11 38 | 0 48 | 23 22 | 0 46 | 5 34 | 1 5 | 16 14 | 1 27 | 23 41 | 0 17 | 22 7 | 1 17 | 13 42 | 8 53 | 11 28 | 11 32 | 25 10 | 12 29 | 1 46 |
| S 17 | 19 19 | 25 48 | 5 0 | 15 37 | 2 1 | 11 25 | 0 35 | 23 27 | 0 46 | 5 30 | 1 5 | 16 13 | 1 27 | 23 41 | 0 17 | 22 7 | 1 17 | 13 43 | 8 53 | 11 32 | 11 33 | 25 12 | 12 27 | 1 47 |
| M18 | 19 32 | 27 44 | 4 44 | 15 15 | 2 16 | 11 14 | 0 23 | 23 32 | 0 46 | 5 27 | 1 6 | 16 13 | 1 27 | 23 42 | 0 17 | 22 7 | 1 17 | 13 43 | 8 53 | 11 36 | 11 35 | 25 13 | 12 26 | 1 47 |
| T 19 | 19 45 | 27 34 | 4 9 | 14 54 | 2 30 | 11 3 | 0 11 | 23 36 | 0 47 | 5 23 | 1 6 | 16 12 | 1 27 | 23 42 | 0 17 | 22 7 | 1 17 | 13 43 | 8 53 | 11 39 | 11 36 | 25 15 | 12 24 | 1 47 |
| W20 | 19 58 | 25 29 | 3 18 | 14 35 | 2 43 | 10 53 | 0s 1 | 23 41 | 0 47 | 5 20 | 1 6 | 16 11 | 1 27 | 23 42 | 0 17 | 22 7 | 1 17 | 13 43 | 8 53 | 11 41 | 11 37 | 25 16 | 12 23 | 1 47 |
| T 21 | 20 11 | 21 50 | 2 16 | 14 18 | 2 55 | 10 45 | 0 12 | 23 45 | 0 48 | 5 17 | 1 6 | 16 9 | 1 27 | 23 42 | 0 17 | 22 7 | 1 17 | 13 44 | 8 53 | 11 42 | 11 38 | 25 18 | 12 21 | 1 48 |
| F 22 | 20 23 | 17 4 | 1 8 | 14 4 | 3 6 | 10 38 | 0 23 | 23 48 | 0 48 | 5 13 | 1 7 | 16 8 | 1 27 | 23 42 | 0 17 | 22 7 | 1 17 | 13 44 | 8 53 | 11 43 | 11 39 | 25 19 | 12 20 | 1 48 |
| S 23 | 20 34 | 11 39 | 0s 1 | 13 51 | 3 16 | 10 32 | 0 33 | 23 52 | 0 48 | 5 10 | 1 7 | 16 7 | 1 26 | 23 42 | 0 17 | 22 7 | 1 17 | 13 44 | 8 53 | 11 43 | 11 40 | 25 21 | 12 18 | 1 48 |
| S 24 | 20 46 | 5 53 | 1 8 | 13 41 | 3 25 | 10 26 | 0 43 | 23 56 | 0 49 | 5 7 | 1 7 | 16 6 | 1 26 | 23 42 | 0 17 | 22 7 | 1 17 | 13 44 | 8 53 | 11 43 | 11 41 | 25 22 | 12 17 | 1 48 |
| M25 | 20 57 | 0 2 | 2 10 | 13 33 | 3 32 | 10 22 | 0 53 | 23 59 | 0 49 | 5 4 | 1 7 | 16 5 | 1 26 | 23 42 | 0 17 | 22 7 | 1 17 | 13 45 | 8 53 | 11 44 | 11 42 | 25 24 | 12 15 | 1 49 |
| T 26 | 21 7 | 5s41 | 3 5 | 13 27 | 3 39 | 10 19 | 1 2 | 24 2 | 0 49 | 5 1 | 1 8 | 16 4 | 1 26 | 23 42 | 0 17 | 22 7 | 1 17 | 13 45 | 8 52 | 11 45 | 11 43 | 25 25 | 12 14 | 1 49 |
| W27 | 21 18 | 11 7 | 3 51 | 13 24 | 3 44 | 10 17 | 1 11 | 24 5 | 0 50 | 4 58 | 1 8 | 16 3 | 1 26 | 23 42 | 0 17 | 22 7 | 1 17 | 13 45 | 8 52 | 11 47 | 11 45 | 25 26 | 12 12 | 1 49 |
| T 28 | 21 28 | 16 5 | 4 26 | 13 23 | 3 48 | 10 16 | 1 20 | 24 7 | 0 50 | 4 55 | 1 8 | 16 1 | 1 26 | 23 42 | 0 17 | 22 7 | 1 17 | 13 45 | 8 52 | 11 50 | 11 46 | 25 28 | 12 11 | 1 49 |
| F 29 | 21 37 | 20 24 | 4 49 | 13 24 | 3 51 | 10 16 | 1 28 | 24 10 | 0 51 | 4 52 | 1 8 | 16 0 | 1 26 | 23 42 | 0 17 | 22 7 | 1 17 | 13 45 | 8 52 | 11 54 | 11 47 | 25 29 | 12 10 | 1 49 |
| S 30 | 21 46 | 23 54 | 4 59 | 13 27 | 3 53 | 10 17 | 1 36 | 24 12 | 0 51 | 4 49 | 1 9 | 15 59 | 1 26 | 23 42 | 0 17 | 22 6 | 1 17 | 13 46 | 8 52 | 11 58 | 11 48 | 25 31 | 12 8 | 1 50 |
| S 31 | 21n55 | 26s23 | 4s57 | 13n33 | 3s54 | 10n18 | 1s43 | 24n14 | 0n51 | 4s47 | 1s 9 | 15n57 | 1n26 | 23s43 | 0s17 | 22s 6 | 1n17 | 13n46 | 8s52 | 12s 3 | 11s49 | 25s32 | 12s 7 | 1n50 |

Julian Day Number = 2325291.5, Delta T = 40.30 sec
Ecliptic obliquity = 23°29'11, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°54'56, Lahiri = 19°01'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## JUNE 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 38 22 | 10♊28'00 | 18♐50 | 18♉44 | 1♉40 | 25♊27 | 20♓45 | 20♌50 | 4°R 0 | 24°R55 | 14♊28 | 28°R12 | 29♒ 2 | 1♐37 | 6°R51 | M 1 |
| T 2 | 16 42 19 | 11°25'22 | 0♑46 | 19°17 | 2° 8 | 26° 7 | 20°52 | 20°54 | 3♑58 | 24♐53 | 14°29 | 28♒ 0 | 28°59 | 1°43 | 6♏48 | T 2 |
| W 3 | 16 46 15 | 12°22'43 | 12°47 | 19°53 | 2°38 | 26°47 | 21° 0 | 20°58 | 3°56 | 24°51 | 14°31 | 27°51 | 28°55 | 1°50 | 6°45 | W 3 |
| T 4 | 16 50 12 | 13°20'03 | 24°54 | 20°34 | 3° 9 | 27°26 | 21° 7 | 21° 2 | 3°54 | 24°50 | 14°32 | 27°44 | 28°52 | 1°57 | 6°42 | T 4 |
| F 5 | 16 54 9 | 14°17'23 | 7♒10 | 21°19 | 3°41 | 28° 6 | 21°14 | 21° 7 | 3°51 | 24°48 | 14°33 | 27°40 | 28°49 | 2° 4 | 6°39 | F 5 |
| S 6 | 16 58 5 | 15°14'42 | 19°38 | 22° 7 | 4°15 | 28°46 | 21°20 | 21°11 | 3°49 | 24°47 | 14°35 | 27°38 | 28°46 | 2°10 | 6°36 | S 6 |
| S 7 | 17 2 2 | 16°12'01 | 2♓21 | 23° 0 | 4°50 | 29°25 | 21°27 | 21°16 | 3°47 | 24°45 | 14°36 | 27°D38 | 28°43 | 2°17 | 6°33 | S 7 |
| M 8 | 17 5 58 | 17° 9'19 | 15°25 | 23°56 | 5°26 | 0♋ 5 | 21°33 | 21°20 | 3°45 | 24°44 | 14°38 | 27°R38 | 28°39 | 2°24 | 6°31 | M 8 |
| T 9 | 17 9 55 | 18° 6'37 | 28°51 | 24°56 | 6° 4 | 0°44 | 21°40 | 21°25 | 3°42 | 24°42 | 14°39 | 27°38 | 28°36 | 2°31 | 6°28 | T 9 |
| W10 | 17 13 51 | 19° 3'54 | 12♈44 | 25°59 | 6°43 | 1°24 | 21°46 | 21°30 | 3°40 | 24°40 | 14°40 | 27°36 | 28°33 | 2°37 | 6°25 | W10 |
| T 11 | 17 17 48 | 20° 1'12 | 27° 3 | 27° 6 | 7°23 | 2° 3 | 21°52 | 21°35 | 3°38 | 24°39 | 14°42 | 27°32 | 28°30 | 2°44 | 6°23 | T 11 |
| F 12 | 17 21 44 | 20°58'29 | 11♉46 | 28°16 | 8° 3 | 2°43 | 21°58 | 21°40 | 3°35 | 24°37 | 14°43 | 27°25 | 28°27 | 2°51 | 6°20 | F 12 |
| S 13 | 17 25 41 | 21°55'45 | 26°49 | 29°30 | 8°45 | 3°22 | 22° 3 | 21°44 | 3°33 | 24°35 | 14°44 | 27°16 | 28°24 | 2°57 | 6°18 | S 13 |
| S 14 | 17 29 38 | 22°53'02 | 12♊ 1 | 0♊47 | 9°28 | 4° 2 | 22° 9 | 21°50 | 3°30 | 24°34 | 14°46 | 27° 7 | 28°20 | 3° 4 | 6°16 | S 14 |
| M15 | 17 33 34 | 23°50'18 | 27°14 | 2° 8 | 10°12 | 4°41 | 22°14 | 21°55 | 3°28 | 24°32 | 14°47 | 26°58 | 28°17 | 3°11 | 6°14 | M15 |
| T 16 | 17 37 31 | 24°47'34 | 12♋16 | 3°32 | 10°56 | 5°21 | 22°19 | 22° 0 | 3°26 | 24°31 | 14°49 | 26°50 | 28°14 | 3°18 | 6°12 | T 16 |
| W17 | 17 41 27 | 25°44'49 | 26°58 | 4°59 | 11°42 | 6° 0 | 22°24 | 22° 5 | 3°23 | 24°29 | 14°50 | 26°45 | 28°11 | 3°24 | 6°10 | W17 |
| T 18 | 17 45 24 | 26°42'03 | 11♌14 | 6°29 | 12°28 | 6°39 | 22°29 | 22°10 | 3°21 | 24°27 | 14°51 | 26°42 | 28° 8 | 3°31 | 6° 8 | T 18 |
| F 19 | 17 49 20 | 27°39'17 | 25° 2 | 8° 3 | 13°15 | 7°19 | 22°33 | 22°16 | 3°19 | 24°26 | 14°53 | 26°D41 | 28° 5 | 3°38 | 6° 6 | F 19 |
| S 20 | 17 53 17 | 28°36'30 | 8♍22 | 9°39 | 14° 3 | 7°58 | 22°38 | 22°21 | 3°16 | 24°24 | 14°54 | 26°41 | 28° 1 | 3°45 | 6° 5 | S 20 |
| S 21 | 17 57 13 | 29°33'43 | 21°16 | 11°19 | 14°52 | 8°37 | 22°42 | 22°27 | 3°14 | 24°23 | 14°56 | 26°42 | 27°58 | 3°51 | 6° 3 | S 21 |
| M22 | 18 1 10 | 0♎30'55 | 3♎50 | 13° 2 | 15°41 | 9°16 | 22°46 | 22°33 | 3°11 | 24°21 | 14°57 | 26°R42 | 27°55 | 3°58 | 6° 2 | M22 |
| T 23 | 18 5 7 | 1°28'06 | 16° 6 | 14°48 | 16°31 | 9°56 | 22°50 | 22°38 | 3° 9 | 24°19 | 14°58 | 26°41 | 27°52 | 4° 5 | 6° 1 | T 23 |
| W24 | 18 9 3 | 2°25'17 | 28°10 | 16°37 | 17°22 | 10°35 | 22°54 | 22°44 | 3° 6 | 24°18 | 15° 0 | 26°38 | 27°49 | 4°11 | 5°59 | W24 |
| T 25 | 18 13 0 | 3°22'28 | 10♏ 7 | 18°28 | 18°13 | 11°14 | 22°57 | 22°50 | 3° 4 | 24°16 | 15° 1 | 26°32 | 27°45 | 4°18 | 5°58 | T 25 |
| F 26 | 18 16 56 | 4°19'38 | 22° 0 | 20°23 | 19° 5 | 11°53 | 23° 1 | 22°56 | 3° 2 | 24°14 | 15° 2 | 26°25 | 27°42 | 4°25 | 5°57 | F 26 |
| S 27 | 18 20 53 | 5°16'49 | 3♐52 | 22°20 | 19°57 | 12°32 | 23° 4 | 23° 1 | 2°59 | 24°13 | 15° 4 | 26°16 | 27°39 | 4°32 | 5°56 | S 27 |
| S 28 | 18 24 49 | 6°13'59 | 15°46 | 24°19 | 20°50 | 13°11 | 23° 7 | 23° 7 | 2°57 | 24°11 | 15° 5 | 26° 7 | 27°36 | 4°38 | 5°56 | S 28 |
| M29 | 18 28 46 | 7°11'09 | 27°44 | 26°20 | 21°44 | 13°50 | 23°10 | 23°13 | 2°54 | 24°10 | 15° 6 | 25°58 | 27°33 | 4°45 | 5°55 | M29 |
| T 30 | 18 32 42 | 8♋ 8'19 | 9♑47 | 28♊24 | 22♉38 | 14♋29 | 23♓12 | 23♌20 | 2♑52 | 24♐ 8 | 15♊ 8 | 25♒50 | 27♒30 | 4♐52 | 5♏54 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22n 4 | 27s41 | 4s41 | 13n41 | 3s54 | 10n21 | 1s51 | 24n16 | 0n52 | 4s44 | 1s 9 | 15n56 | 1n26 | 23s43 | 0s17 | 22s 6 | 1n17 | 13n46 | 8s52 | 12s 7 | 11s50 | 25s33 | 12s 6 | 1n50 |
| T 2 | 22 12 | 27 42 | 4 13 | 13 50 | 3 53 | 10 24 | 1 57 | 24 18 | 0 52 | 4 41 | 1 9 | 15 55 | 1 26 | 23 43 | 0 17 | 22 6 | 1 17 | 13 46 | 8 52 | 12 11 | 11 51 | 25 35 | 12 5 | 1 50 |
| W 3 | 22 19 | 26 25 | 3 34 | 14 2 | 3 51 | 10 28 | 2 4 | 24 19 | 0 52 | 4 39 | 1 10 | 15 53 | 1 26 | 23 43 | 0 17 | 22 6 | 1 17 | 13 46 | 8 52 | 12 15 | 11 52 | 25 36 | 12 3 | 1 50 |
| T 4 | 22 27 | 23 53 | 2 44 | 14 15 | 3 49 | 10 33 | 2 10 | 24 20 | 0 53 | 4 36 | 1 10 | 15 52 | 1 26 | 23 43 | 0 17 | 22 6 | 1 17 | 13 47 | 8 52 | 12 17 | 11 53 | 25 37 | 12 2 | 1 51 |
| F 5 | 22 34 | 20 14 | 1 46 | 14 30 | 3 45 | 10 38 | 2 16 | 24 21 | 0 53 | 4 34 | 1 10 | 15 50 | 1 26 | 23 43 | 0 17 | 22 6 | 1 17 | 13 47 | 8 52 | 12 18 | 11 55 | 25 39 | 12 1 | 1 51 |
| S 6 | 22 40 | 15 38 | 0 42 | 14 47 | 3 41 | 10 44 | 2 22 | 24 22 | 0 53 | 4 31 | 1 10 | 15 49 | 1 26 | 23 43 | 0 17 | 22 6 | 1 17 | 13 47 | 8 52 | 12 19 | 11 56 | 25 40 | 12 0 | 1 51 |
| S 7 | 22 46 | 10 16 | 0n25 | 15 5 | 3 36 | 10 51 | 2 27 | 24 23 | 0 54 | 4 29 | 1 11 | 15 47 | 1 25 | 23 43 | 0 17 | 22 6 | 1 17 | 13 47 | 8 52 | 12 19 | 11 57 | 25 41 | 11 59 | 1 51 |
| M 8 | 22 52 | 4 20 | 1 33 | 15 24 | 3 30 | 10 58 | 2 32 | 24 23 | 0 54 | 4 26 | 1 11 | 15 46 | 1 25 | 23 43 | 0 17 | 22 6 | 1 17 | 13 47 | 8 52 | 12 19 | 11 58 | 25 43 | 11 58 | 1 51 |
| T 9 | 22 57 | 1n57 | 2 38 | 15 45 | 3 23 | 11 6 | 2 37 | 24 23 | 0 54 | 4 24 | 1 11 | 15 44 | 1 25 | 23 43 | 0 17 | 22 6 | 1 17 | 13 48 | 8 52 | 12 19 | 11 59 | 25 44 | 11 57 | 1 52 |
| W10 | 23 2 | 8 20 | 3 35 | 16 7 | 3 16 | 11 14 | 2 41 | 24 23 | 0 55 | 4 22 | 1 12 | 15 43 | 1 25 | 23 43 | 0 17 | 22 6 | 1 17 | 13 48 | 8 52 | 12 20 | 12 0 | 25 45 | 11 56 | 1 52 |
| T 11 | 23 7 | 14 30 | 4 21 | 16 29 | 3 8 | 11 23 | 2 46 | 24 23 | 0 55 | 4 20 | 1 12 | 15 41 | 1 25 | 23 43 | 0 17 | 22 6 | 1 17 | 13 48 | 8 52 | 12 21 | 12 1 | 25 47 | 11 55 | 1 52 |
| F 12 | 23 11 | 20 1 | 4 52 | 16 53 | 3 0 | 11 33 | 2 50 | 24 23 | 0 55 | 4 18 | 1 12 | 15 39 | 1 25 | 23 44 | 0 17 | 22 6 | 1 17 | 13 48 | 8 52 | 12 24 | 12 2 | 25 48 | 11 54 | 1 52 |
| S 13 | 23 14 | 24 23 | 5 3 | 17 18 | 2 51 | 11 43 | 2 53 | 24 22 | 0 56 | 4 16 | 1 12 | 15 38 | 1 25 | 23 44 | 0 17 | 22 6 | 1 17 | 13 48 | 8 52 | 12 27 | 12 3 | 25 49 | 11 53 | 1 52 |
| S 14 | 23 18 | 27 7 | 4 53 | 17 43 | 2 42 | 11 53 | 2 57 | 24 21 | 0 56 | 4 14 | 1 13 | 15 36 | 1 25 | 23 44 | 0 17 | 22 6 | 1 17 | 13 48 | 8 52 | 12 30 | 12 4 | 25 50 | 11 52 | 1 52 |
| M15 | 23 21 | 27 49 | 4 22 | 18 8 | 2 32 | 12 3 | 3 0 | 24 20 | 0 56 | 4 12 | 1 13 | 15 34 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 49 | 8 52 | 12 33 | 12 6 | 25 52 | 11 51 | 1 53 |
| T 16 | 23 23 | 26 28 | 3 34 | 18 34 | 2 22 | 12 14 | 3 3 | 24 19 | 0 56 | 4 10 | 1 13 | 15 33 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 49 | 8 52 | 12 35 | 12 7 | 25 53 | 11 50 | 1 53 |
| W17 | 23 25 | 23 17 | 2 32 | 19 1 | 2 12 | 12 26 | 3 6 | 24 18 | 0 57 | 4 9 | 1 14 | 15 31 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 49 | 8 52 | 12 37 | 12 8 | 25 54 | 11 50 | 1 53 |
| T 18 | 23 27 | 18 45 | 1 22 | 19 27 | 2 1 | 12 37 | 3 8 | 24 16 | 0 57 | 4 7 | 1 14 | 15 29 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 49 | 8 52 | 12 38 | 12 9 | 25 55 | 11 49 | 1 53 |
| F 19 | 23 28 | 13 20 | 0 9 | 19 54 | 1 49 | 12 49 | 3 11 | 24 14 | 0 57 | 4 6 | 1 14 | 15 27 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 49 | 8 52 | 12 39 | 12 10 | 25 57 | 11 48 | 1 53 |
| S 20 | 23 29 | 7 29 | 1s 2 | 20 20 | 1 38 | 13 1 | 3 13 | 24 12 | 0 58 | 4 4 | 1 14 | 15 25 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 49 | 8 52 | 12 39 | 12 11 | 25 58 | 11 47 | 1 53 |
| S 21 | 23 29 | 1 31 | 2 8 | 20 45 | 1 26 | 13 14 | 3 15 | 24 10 | 0 58 | 4 3 | 1 15 | 15 24 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 38 | 12 12 | 25 59 | 11 47 | 1 54 |
| M22 | 23 29 | 4s21 | 3 5 | 21 11 | 1 14 | 13 26 | 3 16 | 24 8 | 0 58 | 4 1 | 1 15 | 15 22 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 38 | 12 13 | 26 0 | 11 46 | 1 54 |
| T 23 | 23 29 | 9 55 | 3 53 | 21 35 | 1 3 | 13 39 | 3 18 | 24 5 | 0 58 | 4 0 | 1 15 | 15 20 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 39 | 12 14 | 26 2 | 11 46 | 1 54 |
| W24 | 23 28 | 15 2 | 4 29 | 21 58 | 0 51 | 13 52 | 3 19 | 24 2 | 0 59 | 3 59 | 1 16 | 15 18 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 40 | 12 15 | 26 3 | 11 45 | 1 54 |
| T 25 | 23 27 | 19 31 | 4 53 | 22 21 | 0 39 | 14 5 | 3 20 | 23 59 | 0 59 | 3 58 | 1 16 | 15 16 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 42 | 12 17 | 26 4 | 11 45 | 1 54 |
| F 26 | 23 25 | 23 12 | 5 5 | 22 42 | 0 27 | 14 18 | 3 21 | 23 56 | 0 59 | 3 57 | 1 16 | 15 14 | 1 25 | 23 44 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 44 | 12 18 | 26 5 | 11 44 | 1 54 |
| S 27 | 23 23 | 25 55 | 5 3 | 23 1 | 0 15 | 14 31 | 3 22 | 23 53 | 1 0 | 3 56 | 1 17 | 15 12 | 1 25 | 23 45 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 47 | 12 19 | 26 6 | 11 44 | 1 54 |
| S 28 | 23 20 | 27 30 | 4 48 | 23 18 | 0 3 | 14 45 | 3 22 | 23 49 | 1 0 | 3 55 | 1 17 | 15 10 | 1 24 | 23 45 | 0 17 | 22 5 | 1 17 | 13 50 | 8 52 | 12 50 | 12 20 | 26 7 | 11 43 | 1 54 |
| M29 | 23 17 | 27 49 | 4 21 | 23 34 | 0n 8 | 14 58 | 3 23 | 23 46 | 1 0 | 3 54 | 1 17 | 15 8 | 1 24 | 23 45 | 0 17 | 22 5 | 1 17 | 13 51 | 8 52 | 12 53 | 12 21 | 26 9 | 11 43 | 1 55 |
| T 30 | 23n14 | 26s48 | 3s41 | 23n47 | 0n19 | 15n12 | 3s23 | 23n42 | 1n 0 | 3s53 | 1s17 | 15n 6 | 1n24 | 23s45 | 0s17 | 22s 5 | 1n17 | 13n51 | 8s52 | 12s56 | 12s22 | 26s10 | 11s43 | 1n55 |

Julian Day Number = 2325322.5, Delta T = 40.24 sec
Ecliptic obliquity = 23°29'10, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'00, Lahiri = 19°02'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## JULY 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 36 39 | 9♋ 5'29 | 21♉57 | 0♋29 | 23♉33 | 15♋ 8 | 23♓15 | 23♌26 | 2°R49 | 24°R 7 | 15♊ 9 | 25°R44 | 27♒26 | 4♐58 | 5°R54 | W 1 |
| T 2 | 18 40 36 | 10° 2'39 | 4♒15 | 2°36 | 24°28 | 15°47 | 23°17 | 23°32 | 2♉47 | 24♐ 5 | 15°10 | 25♒39 | 27°23 | 5° 5 | 5♏53 | T 2 |
| F 3 | 18 44 32 | 10°59'49 | 16°43 | 4°43 | 25°24 | 16°26 | 23°19 | 23°38 | 2°45 | 24° 4 | 15°11 | 25°37 | 27°20 | 5°12 | 5°53 | F 3 |
| S 4 | 18 48 29 | 11°57'00 | 29°23 | 6°52 | 26°20 | 17° 5 | 23°21 | 23°44 | 2°42 | 24° 2 | 15°13 | 25°D37 | 27°17 | 5°19 | 5°53 | S 4 |
| S 5 | 18 52 25 | 12°54'11 | 12♓16 | 9° 1 | 27°16 | 17°44 | 23°23 | 23°51 | 2°40 | 24° 1 | 15°14 | 25°38 | 27°14 | 5°25 | 5°D53 | S 5 |
| M 6 | 18 56 22 | 13°51'22 | 25°26 | 11°11 | 28°14 | 18°23 | 23°24 | 23°57 | 2°37 | 23°59 | 15°15 | 25°39 | 27°11 | 5°32 | 5°53 | M 6 |
| T 7 | 19 0 18 | 14°48'34 | 8♈54 | 13°20 | 29°11 | 19° 2 | 23°26 | 24° 4 | 2°35 | 23°58 | 15°16 | 25°R40 | 27° 7 | 5°39 | 5°53 | T 7 |
| W 8 | 19 4 15 | 15°45'46 | 22°42 | 15°29 | 0♊ 9 | 19°41 | 23°27 | 24°10 | 2°33 | 23°56 | 15°18 | 25°40 | 27° 4 | 5°46 | 5°53 | W 8 |
| T 9 | 19 8 11 | 16°42'59 | 6♉51 | 17°38 | 1° 7 | 20°20 | 23°28 | 24°17 | 2°30 | 23°55 | 15°19 | 25°39 | 27° 1 | 5°52 | 5°54 | T 9 |
| F 10 | 19 12 8 | 17°40'13 | 21°19 | 19°46 | 2° 6 | 20°58 | 23°28 | 24°23 | 2°28 | 23°53 | 15°20 | 25°35 | 26°58 | 5°59 | 5°54 | F 10 |
| S 11 | 19 16 5 | 18°37'27 | 6♊ 2 | 21°53 | 3° 5 | 21°37 | 23°29 | 24°30 | 2°26 | 23°52 | 15°21 | 25°31 | 26°55 | 6° 6 | 5°55 | S 11 |
| S 12 | 19 20 1 | 19°34'43 | 20°56 | 23°59 | 4° 4 | 22°16 | 23°29 | 24°37 | 2°23 | 23°50 | 15°23 | 25°26 | 26°51 | 6°12 | 5°55 | S 12 |
| M13 | 19 23 58 | 20°31'58 | 5♋51 | 26° 4 | 5° 4 | 22°55 | 23°R29 | 24°43 | 2°21 | 23°49 | 15°24 | 25°21 | 26°48 | 6°19 | 5°56 | M13 |
| T 14 | 19 27 54 | 21°29'15 | 20°39 | 28° 7 | 6° 4 | 23°33 | 23°29 | 24°50 | 2°19 | 23°47 | 15°25 | 25°17 | 26°45 | 6°26 | 5°57 | T 14 |
| W15 | 19 31 51 | 22°26'31 | 5♌12 | 0♌ 9 | 7° 5 | 24°12 | 23°29 | 24°57 | 2°17 | 23°46 | 15°26 | 25°14 | 26°42 | 6°33 | 5°58 | W15 |
| T 16 | 19 35 47 | 23°23'48 | 19°25 | 2° 9 | 8° 5 | 24°51 | 23°28 | 25° 4 | 2°15 | 23°45 | 15°27 | 25°D12 | 26°39 | 6°39 | 5°59 | T 16 |
| F 17 | 19 39 44 | 24°21'06 | 3♍13 | 4° 8 | 9° 6 | 25°30 | 23°28 | 25°11 | 2°12 | 23°43 | 15°28 | 25°13 | 26°36 | 6°46 | 6° 0 | F 17 |
| S 18 | 19 43 41 | 25°18'24 | 16°36 | 6° 5 | 10° 8 | 26° 8 | 23°27 | 25°18 | 2°10 | 23°42 | 15°29 | 25°14 | 26°32 | 6°53 | 6° 2 | S 18 |
| S 19 | 19 47 37 | 26°15'42 | 29°34 | 8° 0 | 11° 9 | 26°47 | 23°26 | 25°25 | 2° 8 | 23°41 | 15°31 | 25°15 | 26°29 | 6°59 | 6° 3 | S 19 |
| M20 | 19 51 34 | 27°13'00 | 12♎11 | 9°54 | 12°11 | 27°26 | 23°25 | 25°32 | 2° 6 | 23°39 | 15°32 | 25°17 | 26°26 | 7° 6 | 6° 5 | M20 |
| T 21 | 19 55 30 | 28°10'19 | 24°30 | 11°46 | 13°14 | 28° 4 | 23°23 | 25°39 | 2° 4 | 23°38 | 15°33 | 25°R17 | 26°23 | 7°13 | 6° 6 | T 21 |
| W22 | 19 59 27 | 29° 7'39 | 6♏36 | 13°36 | 14°16 | 28°43 | 23°22 | 25°46 | 2° 2 | 23°37 | 15°34 | 25°17 | 26°20 | 7°20 | 6° 8 | W22 |
| T 23 | 20 3 23 | 0♌ 4'59 | 18°34 | 15°25 | 15°19 | 29°21 | 23°20 | 25°53 | 2° 0 | 23°36 | 15°35 | 25°16 | 26°17 | 7°26 | 6°10 | T 23 |
| F 24 | 20 7 20 | 1° 2'19 | 0♐27 | 17°12 | 16°22 | 29°59 | 23°18 | 26° 0 | 1°58 | 23°34 | 15°36 | 25°14 | 26°13 | 7°33 | 6°12 | F 24 |
| S 25 | 20 11 16 | 1°59'41 | 12°20 | 18°57 | 17°25 | 0♌38 | 23°15 | 26° 7 | 1°56 | 23°33 | 15°37 | 25°10 | 26°10 | 7°40 | 6°14 | S 25 |
| S 26 | 20 15 13 | 2°57'02 | 24°16 | 20°40 | 18°28 | 1°17 | 23°13 | 26°14 | 1°54 | 23°32 | 15°38 | 25° 7 | 26° 7 | 7°47 | 6°16 | S 26 |
| M27 | 20 19 10 | 3°54'25 | 6♑19 | 22°22 | 19°32 | 1°56 | 23°10 | 26°21 | 1°52 | 23°31 | 15°39 | 25° 3 | 26° 4 | 7°53 | 6°18 | M27 |
| T 28 | 20 23 6 | 4°51'48 | 18°31 | 24° 2 | 20°36 | 2°34 | 23° 8 | 26°29 | 1°50 | 23°30 | 15°40 | 25° 0 | 26° 1 | 8° 0 | 6°21 | T 28 |
| W29 | 20 27 3 | 5°49'12 | 0♒53 | 25°41 | 21°40 | 3°12 | 23° 5 | 26°36 | 1°48 | 23°29 | 15°41 | 24°58 | 25°57 | 8° 7 | 6°23 | W29 |
| T 30 | 20 30 59 | 6°46'37 | 13°27 | 27°17 | 22°45 | 3°51 | 23° 2 | 26°43 | 1°46 | 23°28 | 15°42 | 24°57 | 25°54 | 8°13 | 6°26 | T 30 |
| F 31 | 20 34 56 | 7♌44'03 | 26♒13 | 28♌53 | 23♊49 | 4♌29 | 22♓58 | 26♌51 | 1♉44 | 23♐27 | 15♊43 | 24°D57 | 25♒51 | 8♐20 | 6♏28 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23n10 | 24s31 | 2s51 | 23n58 | 0n29 | 15n25 | 3s23 | 23n38 | 1n 1 | 3s52 | 1s18 | 15n 4 | 1n24 | 23s45 | 0s17 | 22s 5 | 1n17 | 13n51 | 8s52 | 12s58 | 12s23 | 26s11 | 11s42 | 1n55 |
| T 2 | 23 6 | 21 3 | 1 53 | 24 7 | 0 39 | 15 38 | 3 23 | 23 33 | 1 1 | 3 52 | 1 18 | 15 2 | 1 24 | 23 45 | 0 17 | 22 5 | 1 17 | 13 51 | 8 52 | 13 0 | 12 24 | 26 12 | 11 42 | 1 55 |
| F 3 | 23 2 | 16 37 | 0 48 | 24 13 | 0 49 | 15 52 | 3 23 | 23 29 | 1 1 | 3 51 | 1 18 | 15 0 | 1 24 | 23 45 | 0 17 | 22 5 | 1 17 | 13 51 | 8 52 | 13 0 | 12 25 | 26 13 | 11 42 | 1 55 |
| S 4 | 22 57 | 11 24 | 0n20 | 24 16 | 0 58 | 16 5 | 3 22 | 23 24 | 1 1 | 3 51 | 1 19 | 14 58 | 1 24 | 23 45 | 0 17 | 22 4 | 1 17 | 13 51 | 8 52 | 13 0 | 12 26 | 26 14 | 11 42 | 1 55 |
| S 5 | 22 52 | 5 36 | 1 29 | 24 17 | 1 6 | 16 19 | 3 22 | 23 20 | 1 2 | 3 50 | 1 19 | 14 55 | 1 24 | 23 45 | 0 17 | 22 4 | 1 17 | 13 51 | 8 52 | 13 0 | 12 27 | 26 15 | 11 42 | 1 55 |
| M 6 | 22 46 | 0n33 | 2 34 | 24 14 | 1 14 | 16 32 | 3 21 | 23 15 | 1 2 | 3 50 | 1 19 | 14 53 | 1 24 | 23 45 | 0 17 | 22 4 | 1 17 | 13 51 | 8 52 | 13 0 | 12 29 | 26 17 | 11 42 | 1 55 |
| T 7 | 22 40 | 6 48 | 3 33 | 24 9 | 1 20 | 16 45 | 3 20 | 23 9 | 1 2 | 3 50 | 1 20 | 14 51 | 1 24 | 23 45 | 0 17 | 22 4 | 1 17 | 13 51 | 8 52 | 12 59 | 12 30 | 26 18 | 11 42 | 1 55 |
| W 8 | 22 33 | 12 52 | 4 21 | 24 1 | 1 27 | 16 58 | 3 19 | 23 4 | 1 2 | 3 50 | 1 20 | 14 49 | 1 24 | 23 45 | 0 17 | 22 4 | 1 17 | 13 51 | 8 52 | 12 59 | 12 31 | 26 19 | 11 42 | 1 56 |
| T 9 | 22 26 | 18 27 | 4 54 | 23 50 | 1 32 | 17 11 | 3 18 | 22 58 | 1 2 | 3 50 | 1 20 | 14 47 | 1 24 | 23 45 | 0 18 | 22 4 | 1 17 | 13 51 | 8 52 | 13 0 | 12 32 | 26 20 | 11 42 | 1 56 |
| F 10 | 22 19 | 23 6 | 5 10 | 23 37 | 1 37 | 17 24 | 3 17 | 22 53 | 1 3 | 3 50 | 1 21 | 14 44 | 1 24 | 23 45 | 0 18 | 22 4 | 1 17 | 13 51 | 8 52 | 13 1 | 12 33 | 26 21 | 11 42 | 1 56 |
| S 11 | 22 11 | 26 22 | 5 5 | 23 21 | 1 41 | 17 37 | 3 16 | 22 47 | 1 3 | 3 50 | 1 21 | 14 42 | 1 24 | 23 45 | 0 18 | 22 4 | 1 17 | 13 52 | 8 52 | 13 2 | 12 34 | 26 22 | 11 42 | 1 56 |
| S 12 | 22 3 | 27 50 | 4 40 | 23 3 | 1 44 | 17 49 | 3 14 | 22 41 | 1 3 | 3 50 | 1 21 | 14 40 | 1 24 | 23 45 | 0 18 | 22 4 | 1 16 | 13 52 | 8 52 | 13 4 | 12 35 | 26 23 | 11 42 | 1 56 |
| M13 | 21 55 | 27 18 | 3 57 | 22 43 | 1 46 | 18 1 | 3 13 | 22 35 | 1 3 | 3 50 | 1 21 | 14 38 | 1 24 | 23 45 | 0 18 | 22 4 | 1 16 | 13 52 | 8 52 | 13 6 | 12 36 | 26 24 | 11 42 | 1 56 |
| T 14 | 21 46 | 24 49 | 2 57 | 22 20 | 1 48 | 18 13 | 3 11 | 22 28 | 1 4 | 3 50 | 1 22 | 14 35 | 1 24 | 23 45 | 0 18 | 22 4 | 1 16 | 13 52 | 8 52 | 13 7 | 12 37 | 26 25 | 11 42 | 1 56 |
| W15 | 21 37 | 20 44 | 1 47 | 21 56 | 1 49 | 18 25 | 3 9 | 22 22 | 1 4 | 3 51 | 1 22 | 14 33 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 8 | 12 38 | 26 26 | 11 43 | 1 56 |
| T 16 | 21 27 | 15 32 | 0 32 | 21 29 | 1 49 | 18 37 | 3 8 | 22 15 | 1 4 | 3 51 | 1 22 | 14 31 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 9 | 12 39 | 26 27 | 11 43 | 1 56 |
| F 17 | 21 17 | 9 40 | 0s44 | 21 1 | 1 48 | 18 48 | 3 6 | 22 8 | 1 4 | 3 52 | 1 23 | 14 29 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 9 | 12 41 | 26 28 | 11 43 | 1 56 |
| S 18 | 21 7 | 3 33 | 1 54 | 20 31 | 1 47 | 18 59 | 3 4 | 22 1 | 1 4 | 3 53 | 1 23 | 14 26 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 8 | 12 42 | 26 29 | 11 44 | 1 56 |
| S 19 | 20 56 | 2s32 | 2 57 | 20 0 | 1 46 | 19 10 | 3 1 | 21 54 | 1 5 | 3 53 | 1 23 | 14 24 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 8 | 12 43 | 26 30 | 11 44 | 1 57 |
| M20 | 20 45 | 8 20 | 3 49 | 19 28 | 1 43 | 19 20 | 2 59 | 21 46 | 1 5 | 3 54 | 1 24 | 14 21 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 7 | 12 44 | 26 31 | 11 44 | 1 57 |
| T 21 | 20 34 | 13 41 | 4 30 | 18 54 | 1 41 | 19 30 | 2 57 | 21 39 | 1 5 | 3 55 | 1 24 | 14 19 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 7 | 12 45 | 26 32 | 11 45 | 1 57 |
| W22 | 20 22 | 18 25 | 4 57 | 18 20 | 1 37 | 19 40 | 2 54 | 21 31 | 1 5 | 3 56 | 1 24 | 14 17 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 7 | 12 46 | 26 33 | 11 45 | 1 57 |
| T 23 | 20 10 | 22 22 | 5 11 | 17 44 | 1 33 | 19 50 | 2 52 | 21 23 | 1 5 | 3 57 | 1 24 | 14 14 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 7 | 12 47 | 26 34 | 11 46 | 1 57 |
| F 24 | 19 58 | 25 22 | 5 12 | 17 8 | 1 29 | 19 59 | 2 49 | 21 15 | 1 5 | 3 58 | 1 25 | 14 12 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 8 | 12 48 | 26 35 | 11 46 | 1 57 |
| S 25 | 19 45 | 27 16 | 5 0 | 16 30 | 1 24 | 20 8 | 2 46 | 21 7 | 1 6 | 3 59 | 1 25 | 14 9 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 9 | 12 49 | 26 36 | 11 47 | 1 57 |
| S 26 | 19 32 | 27 56 | 4 34 | 15 53 | 1 19 | 20 16 | 2 44 | 20 59 | 1 6 | 4 0 | 1 25 | 14 7 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 53 | 13 11 | 12 50 | 26 37 | 11 48 | 1 57 |
| M27 | 19 19 | 27 16 | 3 56 | 15 14 | 1 13 | 20 24 | 2 41 | 20 51 | 1 6 | 4 2 | 1 26 | 14 4 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 54 | 13 12 | 12 51 | 26 38 | 11 48 | 1 57 |
| T 28 | 19 5 | 25 18 | 3 7 | 14 36 | 1 7 | 20 32 | 2 38 | 20 42 | 1 6 | 4 3 | 1 26 | 14 2 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 54 | 13 13 | 12 52 | 26 39 | 11 49 | 1 57 |
| W29 | 18 51 | 22 6 | 2 9 | 13 56 | 1 1 | 20 39 | 2 35 | 20 33 | 1 6 | 4 4 | 1 26 | 14 0 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 54 | 13 13 | 12 53 | 26 40 | 11 50 | 1 57 |
| T 30 | 18 37 | 17 50 | 1 3 | 13 17 | 0 54 | 20 46 | 2 32 | 20 24 | 1 7 | 4 6 | 1 27 | 13 57 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 54 | 13 14 | 12 55 | 26 41 | 11 50 | 1 57 |
| F 31 | 18n22 | 12s42 | 0n 7 | 12n37 | 0n47 | 20n52 | 2s29 | 20n15 | 1n 7 | 4s 7 | 1s27 | 13n55 | 1n24 | 23s46 | 0s18 | 22s 4 | 1n16 | 13n52 | 8s54 | 13s14 | 12s56 | 26s42 | 11s51 | 1n57 |

Julian Day Number = 2325352.5, Delta T = 40.18 sec
Ecliptic obliquity = 23°29'10, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'04, Lahiri = 19°02'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## AUGUST 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 38 52 | 8♌41'30 | 9♓12 | 0♍26 | 24♊54 | 5♌ 8 | 22°R55 | 26♌58 | 1°R42 | 23°R26 | 15♊44 | 24♒57 | 25♒48 | 8♐27 | 6♏31 | S 1 |
| S 2 | 20 42 49 | 9°38'59 | 22°24 | 1°58 | 25°59 | 5°46 | 22♓51 | 27° 5 | 1♉41 | 23♐25 | 15°45 | 24°58 | 25°45 | 8°34 | 6°34 | S 2 |
| M 3 | 20 46 45 | 10°36'28 | 5♈50 | 3°28 | 27° 5 | 6°25 | 22°47 | 27°13 | 1°39 | 23°24 | 15°46 | 24°59 | 25°42 | 8°40 | 6°37 | M 3 |
| T 4 | 20 50 42 | 11°33'59 | 19°29 | 4°56 | 28°10 | 7° 3 | 22°43 | 27°20 | 1°37 | 23°23 | 15°46 | 25° 0 | 25°38 | 8°47 | 6°40 | T 4 |
| W 5 | 20 54 39 | 12°31'31 | 3♉22 | 6°23 | 29°16 | 7°41 | 22°39 | 27°28 | 1°36 | 23°22 | 15°47 | 25° 1 | 25°35 | 8°54 | 6°43 | W 5 |
| T 6 | 20 58 35 | 13°29'05 | 17°27 | 7°48 | 0♋22 | 8°20 | 22°34 | 27°35 | 1°34 | 23°21 | 15°48 | 25°R 1 | 25°32 | 9° 0 | 6°46 | T 6 |
| F 7 | 21 2 32 | 14°26'40 | 1♊43 | 9°11 | 1°28 | 8°58 | 22°30 | 27°43 | 1°32 | 23°20 | 15°49 | 25° 0 | 25°29 | 9° 7 | 6°50 | F 7 |
| S 8 | 21 6 28 | 15°24'17 | 16° 7 | 10°33 | 2°34 | 9°37 | 22°25 | 27°50 | 1°31 | 23°19 | 15°50 | 25° 0 | 25°26 | 9°14 | 6°53 | S 8 |
| S 9 | 21 10 25 | 16°21'55 | 0♋37 | 11°53 | 3°40 | 10°15 | 22°20 | 27°58 | 1°29 | 23°18 | 15°50 | 24°59 | 25°23 | 9°21 | 6°57 | S 9 |
| M10 | 21 14 21 | 17°19'35 | 15° 6 | 13°11 | 4°47 | 10°53 | 22°15 | 28° 5 | 1°28 | 23°18 | 15°51 | 24°58 | 25°19 | 9°27 | 7° 0 | M10 |
| T 11 | 21 18 18 | 18°17'17 | 29°29 | 14°27 | 5°54 | 11°32 | 22°10 | 28°13 | 1°27 | 23°17 | 15°52 | 24°57 | 25°16 | 9°34 | 7° 4 | T 11 |
| W12 | 21 22 14 | 19°14'59 | 13♌42 | 15°41 | 7° 1 | 12°10 | 22° 4 | 28°20 | 1°25 | 23°16 | 15°53 | 24°57 | 25°13 | 9°41 | 7° 8 | W12 |
| T 13 | 21 26 11 | 20°12'43 | 27°39 | 16°53 | 8° 8 | 12°48 | 21°59 | 28°28 | 1°24 | 23°15 | 15°53 | 24°D57 | 25°10 | 9°48 | 7°12 | T 13 |
| F 14 | 21 30 8 | 21°10'28 | 11♍18 | 18° 3 | 9°15 | 13°27 | 21°53 | 28°35 | 1°23 | 23°15 | 15°54 | 24°57 | 25° 7 | 9°54 | 7°16 | F 14 |
| S 15 | 21 34 4 | 22° 8'15 | 24°36 | 19°10 | 10°22 | 14° 5 | 21°47 | 28°43 | 1°21 | 23°14 | 15°55 | 24°57 | 25° 3 | 10° 1 | 7°20 | S 15 |
| S 16 | 21 38 1 | 23° 6'03 | 7♎33 | 20°16 | 11°30 | 14°43 | 21°41 | 28°51 | 1°20 | 23°13 | 15°55 | 24°57 | 25° 0 | 10° 8 | 7°24 | S 16 |
| M17 | 21 41 57 | 24° 3'52 | 20°10 | 21°19 | 12°38 | 15°21 | 21°35 | 28°58 | 1°19 | 23°13 | 15°56 | 24°57 | 24°57 | 10°14 | 7°28 | M17 |
| T 18 | 21 45 54 | 25° 1'42 | 2♏31 | 22°19 | 13°46 | 16° 0 | 21°29 | 29° 6 | 1°18 | 23°12 | 15°57 | 24°R57 | 24°54 | 10°21 | 7°33 | T 18 |
| W19 | 21 49 50 | 25°59'33 | 14°39 | 23°17 | 14°54 | 16°38 | 21°22 | 29°13 | 1°17 | 23°12 | 15°57 | 24°57 | 24°51 | 10°28 | 7°37 | W19 |
| T 20 | 21 53 47 | 26°57'26 | 26°37 | 24°12 | 16° 2 | 17°16 | 21°16 | 29°21 | 1°16 | 23°11 | 15°58 | 24°D57 | 24°48 | 10°35 | 7°42 | T 20 |
| F 21 | 21 57 43 | 27°55'20 | 8♐31 | 25° 4 | 17°10 | 17°54 | 21° 9 | 29°29 | 1°15 | 23°11 | 15°58 | 24°57 | 24°44 | 10°41 | 7°46 | F 21 |
| S 22 | 22 1 40 | 28°53'16 | 20°24 | 25°53 | 18°19 | 18°33 | 21° 2 | 29°36 | 1°14 | 23°10 | 15°59 | 24°58 | 24°41 | 10°48 | 7°51 | S 22 |
| S 23 | 22 5 37 | 29°51'12 | 2♑22 | 26°39 | 19°27 | 19°11 | 20°55 | 29°44 | 1°13 | 23°10 | 15°59 | 24°58 | 24°38 | 10°55 | 7°56 | S 23 |
| M24 | 22 9 33 | 0♍49'10 | 14°29 | 27°21 | 20°36 | 19°49 | 20°48 | 29°51 | 1°12 | 23° 9 | 16° 0 | 24°59 | 24°35 | 11° 1 | 8° 1 | M24 |
| T 25 | 22 13 30 | 1°47'10 | 26°47 | 28° 0 | 21°45 | 20°27 | 20°41 | 29°59 | 1°11 | 23° 9 | 16° 0 | 24°59 | 24°32 | 11° 8 | 8° 5 | T 25 |
| W26 | 22 17 26 | 2°45'11 | 9♒20 | 28°34 | 22°54 | 21° 5 | 20°34 | 0♍ 7 | 1°10 | 23° 9 | 16° 1 | 25° 0 | 24°28 | 11°15 | 8°10 | W26 |
| T 27 | 22 21 23 | 3°43'13 | 22° 9 | 29° 4 | 24° 3 | 21°43 | 20°27 | 0°14 | 1°10 | 23° 9 | 16° 1 | 25°R 0 | 24°25 | 11°22 | 8°16 | T 27 |
| F 28 | 22 25 19 | 4°41'17 | 5♓15 | 29°30 | 25°12 | 22°22 | 20°20 | 0°22 | 1° 9 | 23° 8 | 16° 2 | 25° 0 | 24°22 | 11°28 | 8°21 | F 28 |
| S 29 | 22 29 16 | 5°39'23 | 18°38 | 29°51 | 26°22 | 23° 0 | 20°12 | 0°29 | 1° 8 | 23° 8 | 16° 2 | 24°59 | 24°19 | 11°35 | 8°26 | S 29 |
| S 30 | 22 33 12 | 6°37'30 | 2♈16 | 0♎ 7 | 27°31 | 23°38 | 20° 5 | 0°37 | 1° 8 | 23° 8 | 16° 2 | 24°58 | 24°16 | 11°42 | 8°31 | S 30 |
| M31 | 22 37 9 | 7♍35'40 | 16♈ 7 | 0♎17 | 28♋41 | 24♌16 | 19♓57 | 0♍45 | 1♉ 7 | 23♐ 8 | 16♊ 3 | 24♒57 | 24♒13 | 11♐48 | 8♏37 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 18n 7 | 6s56 | 1n18 | 11n57 | 0n40 | 20n58 | 2s26 | 20n 6 | 1n 7 | 4s 9 | 1s27 | 13n52 | 1n24 | 23s46 | 0s18 | 22s 4 | 1n16 | 13n52 | 8s54 | 13s14 | 12s57 | 26s43 | 11s52 | 1n58 | S 1 |
| S 2 | 17 52 | 0 47 | 2 26 | 11 18 | 0 32 | 21 3 | 2 22 | 19 57 | 1 7 | 4 11 | 1 27 | 13 50 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 54 | 13 14 | 12 58 | 26 44 | 11 53 | 1 58 | S 2 |
| M 3 | 17 37 | 5n29 | 3 27 | 10 38 | 0 24 | 21 8 | 2 19 | 19 47 | 1 7 | 4 13 | 1 28 | 13 47 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 54 | 13 13 | 12 59 | 26 45 | 11 54 | 1 58 | M 3 |
| T 4 | 17 21 | 11 36 | 4 18 | 9 58 | 0 16 | 21 13 | 2 16 | 19 38 | 1 7 | 4 14 | 1 28 | 13 44 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 54 | 13 13 | 13 0 | 26 45 | 11 55 | 1 58 | T 4 |
| W 5 | 17 5 | 17 16 | 4 54 | 9 18 | 0 7 | 21 17 | 2 12 | 19 28 | 1 7 | 4 16 | 1 28 | 13 42 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 55 | 13 13 | 13 1 | 26 46 | 11 56 | 1 58 | W 5 |
| T 6 | 16 48 | 22 5 | 5 13 | 8 38 | 0s 2 | 21 20 | 2 9 | 19 18 | 1 8 | 4 18 | 1 28 | 13 39 | 1 24 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 55 | 13 13 | 13 2 | 26 47 | 11 57 | 1 58 | T 6 |
| F 7 | 16 32 | 25 40 | 5 14 | 7 59 | 0 10 | 21 23 | 2 6 | 19 8 | 1 8 | 4 20 | 1 29 | 13 37 | 1 25 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 55 | 13 13 | 13 3 | 26 48 | 11 58 | 1 58 | F 7 |
| S 8 | 16 15 | 27 39 | 4 55 | 7 19 | 0 20 | 21 26 | 2 2 | 18 58 | 1 8 | 4 23 | 1 29 | 13 34 | 1 25 | 23 46 | 0 18 | 22 4 | 1 16 | 13 52 | 8 55 | 13 13 | 13 4 | 26 49 | 11 59 | 1 58 | S 8 |
| S 9 | 15 58 | 27 46 | 4 17 | 6 41 | 0 29 | 21 28 | 1 59 | 18 48 | 1 8 | 4 25 | 1 29 | 13 32 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 52 | 8 55 | 13 13 | 13 5 | 26 50 | 12 0 | 1 58 | S 9 |
| M10 | 15 40 | 26 0 | 3 23 | 6 2 | 0 38 | 21 29 | 1 55 | 18 38 | 1 8 | 4 27 | 1 29 | 13 29 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 52 | 8 55 | 13 14 | 13 6 | 26 51 | 12 1 | 1 58 | M10 |
| T 11 | 15 23 | 22 31 | 2 16 | 5 24 | 0 48 | 21 30 | 1 51 | 18 27 | 1 8 | 4 29 | 1 30 | 13 27 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 52 | 8 55 | 13 14 | 13 7 | 26 51 | 12 2 | 1 58 | T 11 |
| W12 | 15 5 | 17 44 | 1 2 | 4 46 | 0 58 | 21 30 | 1 48 | 18 16 | 1 8 | 4 32 | 1 30 | 13 24 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 52 | 8 55 | 13 14 | 13 8 | 26 52 | 12 3 | 1 58 | W12 |
| T 13 | 14 47 | 12 5 | 0s15 | 4 9 | 1 7 | 21 30 | 1 44 | 18 6 | 1 9 | 4 34 | 1 30 | 13 21 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 56 | 13 14 | 13 10 | 26 53 | 12 4 | 1 58 | T 13 |
| F 14 | 14 28 | 5 58 | 1 29 | 3 33 | 1 17 | 21 30 | 1 40 | 17 55 | 1 9 | 4 37 | 1 30 | 13 19 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 56 | 13 14 | 13 11 | 26 54 | 12 6 | 1 59 | F 14 |
| S 15 | 14 10 | 0s15 | 2 37 | 2 57 | 1 27 | 21 28 | 1 37 | 17 44 | 1 9 | 4 39 | 1 31 | 13 16 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 56 | 13 14 | 13 12 | 26 55 | 12 7 | 1 59 | S 15 |
| S 16 | 13 51 | 6 17 | 3 35 | 2 23 | 1 37 | 21 27 | 1 33 | 17 33 | 1 9 | 4 42 | 1 31 | 13 14 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 56 | 13 14 | 13 13 | 26 55 | 12 8 | 1 59 | S 16 |
| M17 | 13 32 | 11 55 | 4 20 | 1 48 | 1 47 | 21 24 | 1 29 | 17 22 | 1 9 | 4 44 | 1 31 | 13 11 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 56 | 13 14 | 13 14 | 26 56 | 12 10 | 1 59 | M17 |
| T 18 | 13 12 | 16 57 | 4 53 | 1 15 | 1 57 | 21 21 | 1 26 | 17 10 | 1 9 | 4 47 | 1 31 | 13 8 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 56 | 13 14 | 13 15 | 26 57 | 12 11 | 1 59 | T 18 |
| W19 | 12 53 | 21 13 | 5 12 | 0 43 | 2 7 | 21 18 | 1 22 | 16 59 | 1 9 | 4 50 | 1 31 | 13 6 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 56 | 13 14 | 13 16 | 26 58 | 12 12 | 1 59 | W19 |
| T 20 | 12 33 | 24 34 | 5 17 | 0 12 | 2 17 | 21 14 | 1 18 | 16 47 | 1 9 | 4 52 | 1 32 | 13 3 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 57 | 13 14 | 13 17 | 26 59 | 12 14 | 1 59 | T 20 |
| F 21 | 12 13 | 26 50 | 5 8 | 0s18 | 2 27 | 21 9 | 1 14 | 16 36 | 1 9 | 4 55 | 1 32 | 13 0 | 1 25 | 23 46 | 0 18 | 22 4 | 1 15 | 13 51 | 8 57 | 13 14 | 13 18 | 26 59 | 12 15 | 1 59 | F 21 |
| S 22 | 11 53 | 27 54 | 4 46 | 0 46 | 2 37 | 21 4 | 1 10 | 16 24 | 1 10 | 4 58 | 1 32 | 12 58 | 1 25 | 23 46 | 0 17 | 22 4 | 1 15 | 13 51 | 8 57 | 13 14 | 13 19 | 27 0 | 12 16 | 1 59 | S 22 |
| S 23 | 11 33 | 27 40 | 4 12 | 1 13 | 2 47 | 20 58 | 1 7 | 16 12 | 1 10 | 5 1 | 1 32 | 12 55 | 1 25 | 23 46 | 0 17 | 22 4 | 1 15 | 13 51 | 8 57 | 13 13 | 13 20 | 27 1 | 12 18 | 1 59 | S 23 |
| M24 | 11 12 | 26 7 | 3 26 | 1 39 | 2 56 | 20 52 | 1 3 | 16 0 | 1 10 | 5 4 | 1 32 | 12 53 | 1 25 | 23 46 | 0 17 | 22 4 | 1 15 | 13 51 | 8 57 | 13 13 | 13 21 | 27 2 | 12 19 | 1 59 | M24 |
| T 25 | 10 52 | 23 18 | 2 30 | 2 2 | 3 6 | 20 45 | 0 59 | 15 48 | 1 10 | 5 7 | 1 33 | 12 50 | 1 25 | 23 46 | 0 17 | 22 4 | 1 15 | 13 51 | 8 57 | 13 13 | 13 22 | 27 2 | 12 21 | 1 59 | T 25 |
| W26 | 10 31 | 19 20 | 1 26 | 2 24 | 3 15 | 20 38 | 0 55 | 15 36 | 1 10 | 5 10 | 1 33 | 12 47 | 1 26 | 23 46 | 0 17 | 22 4 | 1 15 | 13 50 | 8 57 | 13 13 | 13 23 | 27 3 | 12 22 | 2 0 | W26 |
| T 27 | 10 10 | 14 24 | 0 16 | 2 44 | 3 23 | 20 30 | 0 51 | 15 24 | 1 10 | 5 13 | 1 33 | 12 45 | 1 26 | 23 46 | 0 17 | 22 4 | 1 15 | 13 50 | 8 58 | 13 13 | 13 24 | 27 4 | 12 24 | 2 0 | T 27 |
| F 28 | 9 49 | 8 44 | 0n56 | 3 2 | 3 31 | 20 21 | 0 48 | 15 11 | 1 10 | 5 16 | 1 33 | 12 42 | 1 26 | 23 46 | 0 17 | 22 4 | 1 15 | 13 50 | 8 58 | 13 13 | 13 25 | 27 4 | 12 26 | 2 0 | F 28 |
| S 29 | 9 27 | 2 33 | 2 7 | 3 18 | 3 39 | 20 12 | 0 44 | 14 59 | 1 10 | 5 19 | 1 33 | 12 39 | 1 26 | 23 46 | 0 17 | 22 4 | 1 15 | 13 50 | 8 58 | 13 13 | 13 27 | 27 5 | 12 27 | 2 0 | S 29 |
| S 30 | 9 6 | 3n50 | 3 12 | 3 30 | 3 47 | 20 3 | 0 40 | 14 46 | 1 10 | 5 22 | 1 33 | 12 37 | 1 26 | 23 46 | 0 17 | 22 4 | 1 15 | 13 50 | 8 58 | 13 13 | 13 28 | 27 6 | 12 29 | 2 0 | S 30 |
| M31 | 8n44 | 10n 8 | 4n 6 | 3s41 | 3s53 | 19n52 | 0s36 | 14n34 | 1n10 | 5s25 | 1s33 | 12n34 | 1n26 | 23s46 | 0s17 | 22s 4 | 1n14 | 13n50 | 8s58 | 13s14 | 13s29 | 27s 6 | 12s30 | 2n 0 | M31 |

Julian Day Number = 2325383.5, Delta T = 40.12 sec
Ecliptic obliquity = 23°29'11, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'08, Lahiri = 19°02'09Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## SEPTEMBER 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 41 6 | 8♍33'51 | 0♉ 8 | 0°R22 | 29♋50 | 24♌54 | 19°R49 | 0♍52 | 1°R 7 | 23°R 8 | 16♊ 3 | 24°R55 | 24♒ 9 | 11♐55 | 8♏42 | T 1 |
| W 2 | 22 45 2 | 9°32'04 | 14°16 | 0♎21 | 1♌ 0 | 25°32 | 19♓42 | 1° 0 | 1♉ 6 | 23♐ 7 | 16° 3 | 24♒54 | 24° 6 | 12° 2 | 8°48 | W 2 |
| T 3 | 22 48 59 | 10°30'20 | 28°28 | 0°13 | 2°10 | 26°10 | 19°34 | 1° 7 | 1° 6 | 23° 7 | 16° 4 | 24°53 | 24° 3 | 12° 9 | 8°53 | T 3 |
| F 4 | 22 52 55 | 11°28'37 | 12♊42 | 29♍59 | 3°21 | 26°48 | 19°26 | 1°15 | 1° 6 | 23°D 7 | 16° 4 | 24°D52 | 24° 0 | 12°15 | 8°59 | F 4 |
| S 5 | 22 56 52 | 12°26'57 | 26°54 | 29°39 | 4°31 | 27°26 | 19°18 | 1°22 | 1° 6 | 23° 7 | 16° 4 | 24°53 | 23°57 | 12°22 | 9° 5 | S 5 |
| S 6 | 23 0 48 | 13°25'19 | 11♋ 3 | 29°12 | 5°41 | 28° 5 | 19°10 | 1°30 | 1° 5 | 23° 7 | 16° 4 | 24°54 | 23°54 | 12°29 | 9°11 | S 6 |
| M 7 | 23 4 45 | 14°23'43 | 25° 6 | 28°38 | 6°52 | 28°43 | 19° 2 | 1°37 | 1° 5 | 23° 7 | 16° 5 | 24°55 | 23°50 | 12°35 | 9°17 | M 7 |
| T 8 | 23 8 41 | 15°22'09 | 9♌ 1 | 27°58 | 8° 2 | 29°21 | 18°54 | 1°45 | 1° 5 | 23° 8 | 16° 5 | 24°56 | 23°47 | 12°42 | 9°23 | T 8 |
| W 9 | 23 12 38 | 16°20'37 | 22°47 | 27°12 | 9°13 | 29°59 | 18°46 | 1°52 | 1° 5 | 23° 8 | 16° 5 | 24°R57 | 23°44 | 12°49 | 9°29 | W 9 |
| T 10 | 23 16 35 | 17°19'07 | 6♍21 | 26°21 | 10°24 | 0♍37 | 18°38 | 2° 0 | 1°D 5 | 23° 8 | 16° 5 | 24°56 | 23°41 | 12°56 | 9°35 | T 10 |
| F 11 | 23 20 31 | 18°17'39 | 19°41 | 25°25 | 11°35 | 1°15 | 18°30 | 2° 7 | 1° 5 | 23° 8 | 16° 5 | 24°55 | 23°38 | 13° 2 | 9°41 | F 11 |
| S 12 | 23 24 28 | 19°16'13 | 2♎46 | 24°25 | 12°46 | 1°53 | 18°22 | 2°15 | 1° 5 | 23° 8 | 16° 5 | 24°52 | 23°34 | 13° 9 | 9°47 | S 12 |
| S 13 | 23 28 24 | 20°14'49 | 15°35 | 23°22 | 13°57 | 2°31 | 18°14 | 2°22 | 1° 5 | 23° 9 | 16° 5 | 24°48 | 23°31 | 13°16 | 9°53 | S 13 |
| M14 | 23 32 21 | 21°13'26 | 28° 8 | 22°18 | 15° 8 | 3° 9 | 18° 6 | 2°29 | 1° 5 | 23° 9 | 16° 5 | 24°44 | 23°28 | 13°22 | 10° 0 | M14 |
| T 15 | 23 36 17 | 22°12'06 | 10♏27 | 21°15 | 16°19 | 3°47 | 17°58 | 2°37 | 1° 6 | 23° 9 | 16° 5 | 24°40 | 23°25 | 13°29 | 10° 6 | T 15 |
| W16 | 23 40 14 | 23°10'47 | 22°33 | 20°13 | 17°31 | 4°25 | 17°50 | 2°44 | 1° 6 | 23°10 | 16°R 5 | 24°36 | 23°22 | 13°36 | 10°13 | W16 |
| T 17 | 23 44 10 | 24° 9'30 | 4♐31 | 19°14 | 18°42 | 5° 3 | 17°43 | 2°51 | 1° 6 | 23°10 | 16° 5 | 24°33 | 23°19 | 13°43 | 10°19 | T 17 |
| F 18 | 23 48 7 | 25° 8'15 | 16°24 | 18°21 | 19°54 | 5°41 | 17°35 | 2°59 | 1° 7 | 23°10 | 16° 5 | 24°31 | 23°15 | 13°49 | 10°26 | F 18 |
| S 19 | 23 52 3 | 26° 7'01 | 28°16 | 17°33 | 21° 6 | 6°19 | 17°27 | 3° 6 | 1° 7 | 23°11 | 16° 5 | 24°D31 | 23°12 | 13°56 | 10°33 | S 19 |
| S 20 | 23 56 0 | 27° 5'49 | 10♑13 | 16°53 | 22°17 | 6°57 | 17°19 | 3°13 | 1° 8 | 23°11 | 16° 5 | 24°32 | 23° 9 | 14° 3 | 10°39 | S 20 |
| M21 | 23 59 57 | 28° 4'39 | 22°19 | 16°22 | 23°29 | 7°35 | 17°11 | 3°20 | 1° 8 | 23°12 | 16° 5 | 24°33 | 23° 6 | 14° 9 | 10°46 | M21 |
| T 22 | 0 3 53 | 29° 3'31 | 4♒40 | 16° 0 | 24°41 | 8°13 | 17° 4 | 3°27 | 1° 9 | 23°12 | 16° 5 | 24°35 | 23° 3 | 14°16 | 10°53 | T 22 |
| W23 | 0 7 50 | 0♎ 2'25 | 17°18 | 15°49 | 25°53 | 8°51 | 16°56 | 3°35 | 1° 9 | 23°13 | 16° 5 | 24°36 | 23° 0 | 14°23 | 11° 0 | W23 |
| T 24 | 0 11 46 | 1° 1'20 | 0♓17 | 15°D47 | 27° 5 | 9°29 | 16°48 | 3°42 | 1°10 | 23°14 | 16° 5 | 24°R36 | 22°56 | 14°30 | 11° 7 | T 24 |
| F 25 | 0 15 43 | 2° 0'17 | 13°39 | 15°55 | 28°18 | 10° 7 | 16°41 | 3°49 | 1°11 | 23°14 | 16° 5 | 24°34 | 22°53 | 14°36 | 11°14 | F 25 |
| S 26 | 0 19 39 | 2°59'16 | 27°23 | 16°14 | 29°30 | 10°45 | 16°34 | 3°56 | 1°12 | 23°15 | 16° 4 | 24°31 | 22°50 | 14°43 | 11°21 | S 26 |
| S 27 | 0 23 36 | 3°58'17 | 11♈28 | 16°43 | 0♍42 | 11°23 | 16°26 | 4° 3 | 1°13 | 23°16 | 16° 4 | 24°26 | 22°47 | 14°50 | 11°28 | S 27 |
| M28 | 0 27 32 | 4°57'20 | 25°47 | 17°20 | 1°55 | 12° 1 | 16°19 | 4°10 | 1°13 | 23°17 | 16° 4 | 24°20 | 22°44 | 14°56 | 11°35 | M28 |
| T 29 | 0 31 29 | 5°56'25 | 10♉17 | 18° 7 | 3° 7 | 12°39 | 16°12 | 4°16 | 1°14 | 23°17 | 16° 4 | 24°14 | 22°40 | 15° 3 | 11°42 | T 29 |
| W30 | 0 35 26 | 6♎55'33 | 24♉49 | 19♍ 2 | 4♍20 | 13♍17 | 16♓ 5 | 4♍23 | 1♑15 | 23♐18 | 16♊ 3 | 24♒ 8 | 22♒37 | 15♐10 | 11♏49 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n22 | 16n 0 | 4n47 | 3s48 | 3s59 | 19n41 | 0s33 | 14n21 | 1n10 | 5s28 | 1s34 | 12n32 | 1n26 | 23s46 | 0s17 | 22s 4 | 1n14 | 13n50 | 8s58 | 13s14 | 13s30 | 27s 7 | 12s32 | 2n 0 |
| W 2 | 8 1 | 21 5 | 5 10 | 3 52 | 4 4 | 19 30 | 0 29 | 14 8 | 1 10 | 5 31 | 1 34 | 12 29 | 1 26 | 23 46 | 0 17 | 22 4 | 1 14 | 13 50 | 8 58 | 13 15 | 13 31 | 27 8 | 12 34 | 2 0 |
| T 3 | 7 39 | 24 58 | 5 15 | 3 53 | 4 8 | 19 18 | 0 25 | 13 55 | 1 11 | 5 35 | 1 34 | 12 26 | 1 26 | 23 46 | 0 17 | 22 4 | 1 14 | 13 49 | 8 59 | 13 15 | 13 32 | 27 8 | 12 35 | 2 0 |
| F 4 | 7 16 | 27 20 | 5 0 | 3 50 | 4 11 | 19 6 | 0 22 | 13 42 | 1 11 | 5 38 | 1 34 | 12 24 | 1 26 | 23 46 | 0 17 | 22 4 | 1 14 | 13 49 | 8 59 | 13 15 | 13 33 | 27 9 | 12 37 | 2 0 |
| S 5 | 6 54 | 27 55 | 4 28 | 3 43 | 4 13 | 18 53 | 0 18 | 13 29 | 1 11 | 5 41 | 1 34 | 12 21 | 1 26 | 23 46 | 0 17 | 22 4 | 1 14 | 13 49 | 8 59 | 13 15 | 13 34 | 27 10 | 12 39 | 2 0 |
| S 6 | 6 32 | 26 40 | 3 39 | 3 33 | 4 13 | 18 39 | 0 14 | 13 16 | 1 11 | 5 44 | 1 34 | 12 19 | 1 26 | 23 46 | 0 17 | 22 4 | 1 14 | 13 49 | 8 59 | 13 15 | 13 35 | 27 10 | 12 41 | 2 1 |
| M 7 | 6 9 | 23 44 | 2 37 | 3 18 | 4 12 | 18 25 | 0 11 | 13 3 | 1 11 | 5 47 | 1 34 | 12 16 | 1 27 | 23 46 | 0 17 | 22 4 | 1 14 | 13 49 | 8 59 | 13 14 | 13 36 | 27 11 | 12 42 | 2 1 |
| T 8 | 5 47 | 19 26 | 1 27 | 3 0 | 4 9 | 18 11 | 0 7 | 12 50 | 1 11 | 5 50 | 1 34 | 12 13 | 1 27 | 23 46 | 0 17 | 22 4 | 1 14 | 13 49 | 8 59 | 13 14 | 13 37 | 27 12 | 12 44 | 2 1 |
| W 9 | 5 24 | 14 8 | 0 12 | 2 37 | 4 4 | 17 55 | 0 4 | 12 36 | 1 11 | 5 54 | 1 34 | 12 11 | 1 27 | 23 46 | 0 17 | 22 5 | 1 14 | 13 49 | 9 0 | 13 14 | 13 38 | 27 12 | 12 46 | 2 1 |
| T 10 | 5 1 | 8 14 | 1s 2 | 2 11 | 3 58 | 17 40 | 0 0 | 12 23 | 1 11 | 5 57 | 1 34 | 12 8 | 1 27 | 23 46 | 0 17 | 22 5 | 1 14 | 13 49 | 9 0 | 13 14 | 13 39 | 27 13 | 12 48 | 2 1 |
| F 11 | 4 38 | 2 4 | 2 12 | 1 41 | 3 49 | 17 24 | 0n 3 | 12 9 | 1 11 | 6 0 | 1 34 | 12 6 | 1 27 | 23 46 | 0 17 | 22 5 | 1 14 | 13 48 | 9 0 | 13 15 | 13 40 | 27 13 | 12 50 | 2 1 |
| S 12 | 4 15 | 4s 3 | 3 13 | 1 8 | 3 39 | 17 7 | 0 6 | 11 56 | 1 11 | 6 3 | 1 34 | 12 3 | 1 27 | 23 46 | 0 17 | 22 5 | 1 14 | 13 48 | 9 0 | 13 15 | 13 41 | 27 14 | 12 52 | 2 1 |
| S 13 | 3 52 | 9 52 | 4 3 | 0 32 | 3 27 | 16 50 | 0 10 | 11 42 | 1 11 | 6 6 | 1 34 | 12 0 | 1 27 | 23 46 | 0 17 | 22 5 | 1 14 | 13 48 | 9 0 | 13 17 | 13 42 | 27 14 | 12 53 | 2 1 |
| M14 | 3 29 | 15 11 | 4 40 | 0n 7 | 3 13 | 16 32 | 0 13 | 11 28 | 1 11 | 6 10 | 1 34 | 11 58 | 1 27 | 23 46 | 0 17 | 22 5 | 1 14 | 13 48 | 9 0 | 13 18 | 13 43 | 27 15 | 12 55 | 2 1 |
| T 15 | 3 6 | 19 46 | 5 3 | 0 46 | 2 57 | 16 14 | 0 16 | 11 15 | 1 11 | 6 13 | 1 34 | 11 55 | 1 27 | 23 46 | 0 17 | 22 5 | 1 14 | 13 48 | 9 0 | 13 20 | 13 44 | 27 16 | 12 57 | 2 2 |
| W16 | 2 43 | 23 28 | 5 12 | 1 26 | 2 40 | 15 56 | 0 20 | 11 1 | 1 11 | 6 16 | 1 34 | 11 53 | 1 28 | 23 46 | 0 17 | 22 5 | 1 14 | 13 48 | 9 1 | 13 21 | 13 45 | 27 16 | 12 59 | 2 2 |
| T 17 | 2 19 | 26 8 | 5 8 | 2 6 | 2 21 | 15 37 | 0 23 | 10 47 | 1 11 | 6 19 | 1 34 | 11 50 | 1 28 | 23 46 | 0 17 | 22 5 | 1 14 | 13 48 | 9 1 | 13 22 | 13 47 | 27 17 | 13 1 | 2 2 |
| F 18 | 1 56 | 27 36 | 4 50 | 2 45 | 2 2 | 15 17 | 0 26 | 10 33 | 1 11 | 6 22 | 1 34 | 11 48 | 1 28 | 23 46 | 0 17 | 22 5 | 1 14 | 13 47 | 9 1 | 13 22 | 13 48 | 27 17 | 13 3 | 2 2 |
| S 19 | 1 33 | 27 49 | 4 20 | 3 22 | 1 42 | 14 57 | 0 29 | 10 19 | 1 11 | 6 25 | 1 34 | 11 45 | 1 28 | 23 46 | 0 17 | 22 5 | 1 14 | 13 47 | 9 1 | 13 23 | 13 49 | 27 18 | 13 5 | 2 2 |
| S 20 | 1 9 | 26 44 | 3 39 | 3 56 | 1 22 | 14 37 | 0 32 | 10 5 | 1 11 | 6 28 | 1 34 | 11 43 | 1 28 | 23 46 | 0 17 | 22 5 | 1 13 | 13 47 | 9 1 | 13 22 | 13 50 | 27 18 | 13 7 | 2 2 |
| M21 | 0 46 | 24 23 | 2 47 | 4 26 | 1 2 | 14 16 | 0 35 | 9 50 | 1 11 | 6 31 | 1 34 | 11 40 | 1 28 | 23 46 | 0 17 | 22 5 | 1 13 | 13 47 | 9 1 | 13 22 | 13 51 | 27 19 | 13 9 | 2 2 |
| T 22 | 0 23 | 20 52 | 1 47 | 4 53 | 0 42 | 13 55 | 0 38 | 9 36 | 1 11 | 6 34 | 1 34 | 11 38 | 1 28 | 23 46 | 0 17 | 22 5 | 1 13 | 13 47 | 9 2 | 13 21 | 13 52 | 27 19 | 13 11 | 2 2 |
| W23 | 0s 1 | 16 19 | 0 40 | 5 15 | 0 23 | 13 33 | 0 41 | 9 22 | 1 11 | 6 37 | 1 34 | 11 35 | 1 28 | 23 46 | 0 17 | 22 5 | 1 13 | 13 47 | 9 2 | 13 21 | 13 53 | 27 20 | 13 13 | 2 3 |
| T 24 | 0 24 | 10 55 | 0n31 | 5 33 | 0 5 | 13 11 | 0 44 | 9 8 | 1 11 | 6 40 | 1 34 | 11 33 | 1 29 | 23 46 | 0 17 | 22 6 | 1 13 | 13 46 | 9 2 | 13 21 | 13 54 | 27 20 | 13 15 | 2 3 |
| F 25 | 0 48 | 4 53 | 1 42 | 5 45 | 0n13 | 12 49 | 0 46 | 8 53 | 1 11 | 6 43 | 1 34 | 11 30 | 1 29 | 23 46 | 0 17 | 22 6 | 1 13 | 13 46 | 9 2 | 13 21 | 13 55 | 27 21 | 13 17 | 2 3 |
| S 26 | 1 11 | 1n32 | 2 49 | 5 53 | 0 29 | 12 26 | 0 49 | 8 39 | 1 11 | 6 46 | 1 34 | 11 28 | 1 29 | 23 46 | 0 17 | 22 6 | 1 13 | 13 46 | 9 2 | 13 22 | 13 56 | 27 21 | 13 19 | 2 3 |
| S 27 | 1 35 | 8 1 | 3 47 | 5 55 | 0 43 | 12 3 | 0 52 | 8 24 | 1 11 | 6 48 | 1 34 | 11 26 | 1 29 | 23 46 | 0 17 | 22 6 | 1 13 | 13 46 | 9 2 | 13 24 | 13 57 | 27 22 | 13 21 | 2 3 |
| M28 | 1 58 | 14 12 | 4 32 | 5 53 | 0 57 | 11 40 | 0 54 | 8 10 | 1 11 | 6 51 | 1 34 | 11 23 | 1 29 | 23 46 | 0 17 | 22 6 | 1 13 | 13 46 | 9 2 | 13 26 | 13 58 | 27 22 | 13 23 | 2 3 |
| T 29 | 2 22 | 19 40 | 5 0 | 5 46 | 1 9 | 11 16 | 0 57 | 7 55 | 1 11 | 6 54 | 1 34 | 11 21 | 1 29 | 23 46 | 0 17 | 22 6 | 1 13 | 13 46 | 9 3 | 13 28 | 13 59 | 27 23 | 13 25 | 2 3 |
| W30 | 2s45 | 24n 0 | 5n 9 | 5n34 | 1n19 | 10n52 | 0n59 | 7n41 | 1n11 | 6s56 | 1s34 | 11n18 | 1n29 | 23s46 | 0s17 | 22s 6 | 1n13 | 13n45 | 9s 3 | 13s30 | 14s 0 | 27s23 | 13s27 | 2n 3 |

Julian Day Number = 2325414.5, Delta T = 40.06 sec
Ecliptic obliquity = 23°29'11, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'12, Lahiri = 19°02'13Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## OCTOBER 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 39 22 | 7♎54'43 | 9♊19 | 20♍ 4 | 5♍33 | 13♍55 | 15°R58 | 4♍30 | 1♑16 | 23♐19 | 16°R 3 | 24°R 3 | 22♒34 | 15♐17 | 11♏56 | T 1 |
| F 2 | 0 43 19 | 8°53'56 | 23°42 | 21°13 | 6°45 | 14°33 | 15♓51 | 4°37 | 1°18 | 23°20 | 16♊ 3 | 24♒ 0 | 22°31 | 15°23 | 12° 4 | F 2 |
| S 3 | 0 47 15 | 9°53'10 | 7♋53 | 22°27 | 7°58 | 15°11 | 15°45 | 4°44 | 1°19 | 23°21 | 16° 2 | 23°D59 | 22°28 | 15°30 | 12°11 | S 3 |
| S 4 | 0 51 12 | 10°52'27 | 21°52 | 23°47 | 9°11 | 15°49 | 15°38 | 4°50 | 1°20 | 23°22 | 16° 2 | 23°59 | 22°25 | 15°37 | 12°18 | S 4 |
| M 5 | 0 55 8 | 11°51'47 | 5♌37 | 25°11 | 10°24 | 16°27 | 15°32 | 4°57 | 1°21 | 23°23 | 16° 1 | 24° 0 | 22°21 | 15°43 | 12°26 | M 5 |
| T 6 | 0 59 5 | 12°51'09 | 19°11 | 26°40 | 11°37 | 17° 5 | 15°26 | 5° 3 | 1°22 | 23°24 | 16° 1 | 24°R 1 | 22°18 | 15°50 | 12°33 | T 6 |
| W 7 | 1 3 1 | 13°50'32 | 2♍32 | 28°11 | 12°51 | 17°43 | 15°19 | 5°10 | 1°24 | 23°25 | 16° 1 | 24° 1 | 22°15 | 15°57 | 12°41 | W 7 |
| T 8 | 1 6 58 | 14°49'59 | 15°41 | 29°45 | 14° 4 | 18°21 | 15°13 | 5°16 | 1°25 | 23°26 | 16° 0 | 23°59 | 22°12 | 16° 4 | 12°48 | T 8 |
| F 9 | 1 10 55 | 15°49'27 | 28°39 | 1♎21 | 15°17 | 18°59 | 15° 8 | 5°23 | 1°27 | 23°27 | 16° 0 | 23°54 | 22° 9 | 16°10 | 12°56 | F 9 |
| S 10 | 1 14 51 | 16°48'57 | 11♎25 | 2°59 | 16°30 | 19°37 | 15° 2 | 5°29 | 1°28 | 23°28 | 15°59 | 23°47 | 22° 5 | 16°17 | 13° 3 | S 10 |
| S 11 | 1 18 48 | 17°48'30 | 24° 0 | 4°39 | 17°44 | 20°15 | 14°56 | 5°36 | 1°30 | 23°29 | 15°59 | 23°38 | 22° 2 | 16°24 | 13°11 | S 11 |
| M12 | 1 22 44 | 18°48'05 | 6♏24 | 6°19 | 18°57 | 20°53 | 14°51 | 5°42 | 1°31 | 23°30 | 15°58 | 23°28 | 21°59 | 16°30 | 13°19 | M12 |
| T 13 | 1 26 41 | 19°47'41 | 18°36 | 8° 0 | 20°11 | 21°31 | 14°46 | 5°48 | 1°33 | 23°32 | 15°57 | 23°17 | 21°56 | 16°37 | 13°26 | T 13 |
| W14 | 1 30 37 | 20°47'20 | 0♐39 | 9°42 | 21°25 | 22° 9 | 14°41 | 5°54 | 1°35 | 23°33 | 15°57 | 23° 6 | 21°53 | 16°44 | 13°34 | W14 |
| T 15 | 1 34 34 | 21°47'00 | 12°34 | 11°24 | 22°38 | 22°47 | 14°36 | 6° 0 | 1°36 | 23°34 | 15°56 | 22°58 | 21°50 | 16°51 | 13°42 | T 15 |
| F 16 | 1 38 30 | 22°46'42 | 24°25 | 13° 6 | 23°52 | 23°25 | 14°31 | 6° 6 | 1°38 | 23°35 | 15°56 | 22°51 | 21°46 | 16°57 | 13°50 | F 16 |
| S 17 | 1 42 27 | 23°46'26 | 6♑15 | 14°49 | 25° 6 | 24° 2 | 14°27 | 6°12 | 1°40 | 23°37 | 15°55 | 22°47 | 21°43 | 17° 4 | 13°58 | S 17 |
| S 18 | 1 46 24 | 24°46'12 | 18° 9 | 16°31 | 26°20 | 24°40 | 14°22 | 6°18 | 1°42 | 23°38 | 15°54 | 22°46 | 21°40 | 17°11 | 14° 5 | S 18 |
| M19 | 1 50 20 | 25°45'59 | 0♒12 | 18°13 | 27°34 | 25°18 | 14°18 | 6°24 | 1°44 | 23°40 | 15°54 | 22°D45 | 21°37 | 17°17 | 14°13 | M19 |
| T 20 | 1 54 17 | 26°45'49 | 12°29 | 19°55 | 28°47 | 25°56 | 14°14 | 6°30 | 1°46 | 23°41 | 15°53 | 22°46 | 21°34 | 17°24 | 14°21 | T 20 |
| W21 | 1 58 13 | 27°45'39 | 25° 5 | 21°36 | 0♎ 1 | 26°34 | 14°10 | 6°36 | 1°48 | 23°42 | 15°52 | 22°R46 | 21°31 | 17°31 | 14°29 | W21 |
| T 22 | 2 2 10 | 28°45'32 | 8♓ 6 | 23°17 | 1°15 | 27°12 | 14° 7 | 6°41 | 1°50 | 23°44 | 15°52 | 22°45 | 21°27 | 17°37 | 14°37 | T 22 |
| F 23 | 2 6 6 | 29°45'26 | 21°33 | 24°58 | 2°30 | 27°50 | 14° 3 | 6°47 | 1°52 | 23°45 | 15°51 | 22°42 | 21°24 | 17°44 | 14°45 | F 23 |
| S 24 | 2 10 3 | 0♏45'22 | 5♈28 | 26°38 | 3°44 | 28°28 | 14° 0 | 6°52 | 1°54 | 23°47 | 15°50 | 22°36 | 21°21 | 17°51 | 14°53 | S 24 |
| S 25 | 2 13 59 | 1°45'19 | 19°50 | 28°18 | 4°58 | 29° 6 | 13°57 | 6°58 | 1°56 | 23°48 | 15°49 | 22°28 | 21°18 | 17°58 | 15° 1 | S 25 |
| M26 | 2 17 56 | 2°45'19 | 4♉32 | 29°58 | 6°12 | 29°44 | 13°54 | 7° 3 | 1°58 | 23°50 | 15°48 | 22°18 | 21°15 | 18° 4 | 15° 9 | M26 |
| T 27 | 2 21 53 | 3°45'20 | 19°28 | 1♏37 | 7°26 | 0♎21 | 13°51 | 7° 8 | 2° 1 | 23°52 | 15°48 | 22° 7 | 21°11 | 18°11 | 15°17 | T 27 |
| W28 | 2 25 49 | 4°45'24 | 4♊28 | 3°15 | 8°41 | 0°59 | 13°49 | 7°14 | 2° 3 | 23°53 | 15°47 | 21°56 | 21° 8 | 18°18 | 15°25 | W28 |
| T 29 | 2 29 46 | 5°45'29 | 19°22 | 4°53 | 9°55 | 1°37 | 13°47 | 7°19 | 2° 5 | 23°55 | 15°46 | 21°48 | 21° 5 | 18°24 | 15°33 | T 29 |
| F 30 | 2 33 42 | 6°45'37 | 4♋ 4 | 6°31 | 11°10 | 2°15 | 13°45 | 7°24 | 2° 8 | 23°56 | 15°45 | 21°42 | 21° 2 | 18°31 | 15°41 | F 30 |
| S 31 | 2 37 39 | 7♏45'47 | 18♋26 | 8♏ 8 | 12♎24 | 2♎53 | 13♓43 | 7♍29 | 2♑10 | 23♐58 | 15♊44 | 21♒38 | 20♒59 | 18♐38 | 15♏49 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s 9 | 26n48 | 4n58 | 5n18 | 1n28 | 10n27 | 1n 2 | 7n26 | 1n11 | 6s59 | 1s34 | 11n16 | 1n30 | 23s46 | 0s17 | 22s 6 | 1n13 | 13n45 | 9s 3 | 13s32 | 14s 1 | 27s23 | 13s29 | 2n 4 |
| F 2 | 3 32 | 27 48 | 4 28 | 4 58 | 1 36 | 10 2 | 1 4 | 7 11 | 1 11 | 7 2 | 1 34 | 11 14 | 1 30 | 23 46 | 0 17 | 22 6 | 1 13 | 13 45 | 9 3 | 13 33 | 14 2 | 27 24 | 13 31 | 2 4 |
| S 3 | 3 55 | 26 58 | 3 43 | 4 35 | 1 43 | 9 37 | 1 6 | 6 57 | 1 11 | 7 4 | 1 34 | 11 11 | 1 30 | 23 46 | 0 17 | 22 6 | 1 13 | 13 45 | 9 3 | 13 33 | 14 3 | 27 24 | 13 33 | 2 4 |
| S 4 | 4 19 | 24 25 | 2 45 | 4 8 | 1 48 | 9 12 | 1 8 | 6 42 | 1 11 | 7 7 | 1 33 | 11 9 | 1 30 | 23 46 | 0 17 | 22 6 | 1 13 | 13 45 | 9 3 | 13 33 | 14 4 | 27 25 | 13 35 | 2 4 |
| M 5 | 4 42 | 20 29 | 1 38 | 3 38 | 1 52 | 8 46 | 1 10 | 6 27 | 1 11 | 7 9 | 1 33 | 11 7 | 1 30 | 23 46 | 0 17 | 22 7 | 1 13 | 13 44 | 9 3 | 13 33 | 14 5 | 27 25 | 13 38 | 2 4 |
| T 6 | 5 5 | 15 31 | 0 26 | 3 6 | 1 55 | 8 20 | 1 12 | 6 12 | 1 11 | 7 11 | 1 33 | 11 5 | 1 30 | 23 46 | 0 17 | 22 7 | 1 13 | 13 44 | 9 4 | 13 32 | 14 6 | 27 25 | 13 40 | 2 4 |
| W 7 | 5 28 | 9 53 | 0s46 | 2 31 | 1 57 | 7 54 | 1 14 | 5 57 | 1 11 | 7 13 | 1 33 | 11 2 | 1 30 | 23 46 | 0 17 | 22 7 | 1 13 | 13 44 | 9 4 | 13 32 | 14 7 | 27 26 | 13 42 | 2 5 |
| T 8 | 5 51 | 3 55 | 1 54 | 1 55 | 1 59 | 7 27 | 1 16 | 5 43 | 1 11 | 7 16 | 1 33 | 11 0 | 1 31 | 23 46 | 0 17 | 22 7 | 1 13 | 13 44 | 9 4 | 13 33 | 14 8 | 27 26 | 13 44 | 2 5 |
| F 9 | 6 14 | 2s 8 | 2 55 | 1 17 | 1 59 | 7 0 | 1 18 | 5 28 | 1 11 | 7 18 | 1 33 | 10 58 | 1 31 | 23 46 | 0 17 | 22 7 | 1 13 | 13 44 | 9 4 | 13 35 | 14 9 | 27 27 | 13 46 | 2 5 |
| S 10 | 6 37 | 7 59 | 3 46 | 0 37 | 1 58 | 6 33 | 1 20 | 5 13 | 1 11 | 7 20 | 1 33 | 10 56 | 1 31 | 23 46 | 0 17 | 22 7 | 1 13 | 13 44 | 9 4 | 13 37 | 14 10 | 27 27 | 13 48 | 2 5 |
| S 11 | 7 0 | 13 26 | 4 25 | 0s 4 | 1 57 | 6 6 | 1 21 | 4 58 | 1 11 | 7 22 | 1 33 | 10 53 | 1 31 | 23 46 | 0 17 | 22 7 | 1 12 | 13 43 | 9 4 | 13 40 | 14 11 | 27 27 | 13 50 | 2 5 |
| M12 | 7 23 | 18 15 | 4 51 | 0 45 | 1 55 | 5 39 | 1 23 | 4 43 | 1 11 | 7 24 | 1 32 | 10 51 | 1 31 | 23 46 | 0 17 | 22 7 | 1 12 | 13 43 | 9 4 | 13 44 | 14 12 | 27 28 | 13 52 | 2 5 |
| T 13 | 7 45 | 22 15 | 5 3 | 1 28 | 1 52 | 5 11 | 1 24 | 4 28 | 1 11 | 7 26 | 1 32 | 10 49 | 1 31 | 23 46 | 0 17 | 22 7 | 1 12 | 13 43 | 9 4 | 13 47 | 14 13 | 27 28 | 13 54 | 2 6 |
| W14 | 8 8 | 25 14 | 5 2 | 2 11 | 1 49 | 4 44 | 1 26 | 4 13 | 1 11 | 7 28 | 1 32 | 10 47 | 1 32 | 23 46 | 0 17 | 22 7 | 1 12 | 13 43 | 9 5 | 13 50 | 14 15 | 27 28 | 13 57 | 2 6 |
| T 15 | 8 30 | 27 5 | 4 47 | 2 54 | 1 45 | 4 16 | 1 27 | 3 58 | 1 11 | 7 29 | 1 32 | 10 45 | 1 32 | 23 46 | 0 17 | 22 8 | 1 12 | 13 43 | 9 5 | 13 53 | 14 16 | 27 29 | 13 59 | 2 6 |
| F 16 | 8 53 | 27 42 | 4 20 | 3 38 | 1 41 | 3 48 | 1 28 | 3 42 | 1 11 | 7 31 | 1 32 | 10 43 | 1 32 | 23 46 | 0 17 | 22 8 | 1 12 | 13 42 | 9 5 | 13 55 | 14 17 | 27 29 | 14 1 | 2 6 |
| S 17 | 9 15 | 27 2 | 3 42 | 4 21 | 1 37 | 3 19 | 1 30 | 3 27 | 1 11 | 7 33 | 1 31 | 10 41 | 1 32 | 23 46 | 0 17 | 22 8 | 1 12 | 13 42 | 9 5 | 13 57 | 14 18 | 27 29 | 14 3 | 2 6 |
| S 18 | 9 37 | 25 7 | 2 54 | 5 5 | 1 32 | 2 51 | 1 31 | 3 12 | 1 11 | 7 34 | 1 31 | 10 39 | 1 32 | 23 46 | 0 17 | 22 8 | 1 12 | 13 42 | 9 5 | 13 57 | 14 19 | 27 29 | 14 5 | 2 6 |
| M19 | 9 59 | 22 4 | 1 57 | 5 49 | 1 27 | 2 23 | 1 32 | 2 57 | 1 11 | 7 35 | 1 31 | 10 37 | 1 33 | 23 46 | 0 17 | 22 8 | 1 12 | 13 42 | 9 5 | 13 57 | 14 20 | 27 30 | 14 7 | 2 7 |
| T 20 | 10 20 | 17 58 | 0 55 | 6 33 | 1 22 | 1 54 | 1 33 | 2 42 | 1 11 | 7 37 | 1 31 | 10 35 | 1 33 | 23 46 | 0 17 | 22 8 | 1 12 | 13 42 | 9 5 | 13 57 | 14 21 | 27 30 | 14 9 | 2 7 |
| W21 | 10 42 | 12 59 | 0n12 | 7 16 | 1 16 | 1 25 | 1 34 | 2 27 | 1 11 | 7 38 | 1 31 | 10 33 | 1 33 | 23 46 | 0 17 | 22 8 | 1 12 | 13 42 | 9 5 | 13 57 | 14 22 | 27 30 | 14 12 | 2 7 |
| T 22 | 11 3 | 7 18 | 1 21 | 7 59 | 1 10 | 0 57 | 1 35 | 2 12 | 1 11 | 7 39 | 1 31 | 10 31 | 1 33 | 23 46 | 0 17 | 22 8 | 1 12 | 13 41 | 9 6 | 13 57 | 14 23 | 27 31 | 14 14 | 2 7 |
| F 23 | 11 24 | 1 7 | 2 27 | 8 41 | 1 4 | 0 28 | 1 35 | 1 57 | 1 11 | 7 40 | 1 30 | 10 29 | 1 33 | 23 46 | 0 17 | 22 8 | 1 12 | 13 41 | 9 6 | 13 59 | 14 24 | 27 31 | 14 16 | 2 7 |
| S 24 | 11 46 | 5n20 | 3 26 | 9 24 | 0 58 | 0s 1 | 1 36 | 1 41 | 1 10 | 7 42 | 1 30 | 10 27 | 1 33 | 23 45 | 0 17 | 22 9 | 1 12 | 13 41 | 9 6 | 14 0 | 14 25 | 27 31 | 14 18 | 2 8 |
| S 25 | 12 6 | 11 42 | 4 14 | 10 5 | 0 52 | 0 30 | 1 36 | 1 26 | 1 10 | 7 43 | 1 30 | 10 25 | 1 34 | 23 45 | 0 17 | 22 9 | 1 12 | 13 41 | 9 6 | 14 3 | 14 26 | 27 31 | 14 20 | 2 8 |
| M26 | 12 27 | 17 34 | 4 47 | 10 47 | 0 45 | 0 59 | 1 37 | 1 11 | 1 10 | 7 43 | 1 30 | 10 23 | 1 34 | 23 45 | 0 17 | 22 9 | 1 12 | 13 41 | 9 6 | 14 6 | 14 27 | 27 31 | 14 22 | 2 8 |
| T 27 | 12 48 | 22 27 | 5 1 | 11 27 | 0 39 | 1 28 | 1 37 | 0 56 | 1 10 | 7 44 | 1 29 | 10 22 | 1 34 | 23 45 | 0 17 | 22 9 | 1 12 | 13 41 | 9 6 | 14 10 | 14 28 | 27 32 | 14 24 | 2 8 |
| W28 | 13 8 | 25 54 | 4 54 | 12 7 | 0 32 | 1 57 | 1 38 | 0 41 | 1 10 | 7 45 | 1 29 | 10 20 | 1 34 | 23 45 | 0 17 | 22 9 | 1 12 | 13 40 | 9 6 | 14 13 | 14 29 | 27 32 | 14 26 | 2 8 |
| T 29 | 13 28 | 27 30 | 4 28 | 12 47 | 0 25 | 2 26 | 1 38 | 0 25 | 1 10 | 7 46 | 1 29 | 10 18 | 1 34 | 23 45 | 0 17 | 22 9 | 1 12 | 13 40 | 9 6 | 14 16 | 14 30 | 27 32 | 14 29 | 2 9 |
| F 30 | 13 48 | 27 9 | 3 43 | 13 25 | 0 19 | 2 55 | 1 38 | 0 10 | 1 10 | 7 46 | 1 29 | 10 16 | 1 35 | 23 45 | 0 17 | 22 9 | 1 12 | 13 40 | 9 6 | 14 18 | 14 31 | 27 32 | 14 31 | 2 9 |
| S 31 | 14s 8 | 24n57 | 2n46 | 14s 3 | 0n12 | 3s24 | 1n38 | 0s 5 | 1n10 | 7s47 | 1s29 | 10n15 | 1n35 | 23s45 | 0s17 | 22s 9 | 1n12 | 13n40 | 9s 6 | 14s19 | 14s32 | 27s32 | 14s33 | 2n 9 |

Julian Day Number = 2325444.5, Delta T = 40.01 sec
Ecliptic obliquity = 23°29'11, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'17, Lahiri = 19°02'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## NOVEMBER 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 41 35 | 8♏45'59 | 2♌28 | 9♏45 | 13♎39 | 3♎31 | 13°R41 | 7♍34 | 2♑12 | 24♐ 0 | 15°R43 | 21°R37 | 20♒56 | 18♐45 | 15♏57 | S 1 |
| M 2 | 2 45 32 | 9°46'13 | 16° 9 | 11°22 | 14°53 | 4° 9 | 13♓40 | 7°39 | 2°15 | 24° 2 | 15♊42 | 21♒37 | 20°52 | 18°51 | 16° 5 | M 2 |
| T 3 | 2 49 28 | 10°46'29 | 29°31 | 12°58 | 16° 8 | 4°47 | 13°38 | 7°44 | 2°17 | 24° 3 | 15°42 | 21°37 | 20°49 | 18°58 | 16°13 | T 3 |
| W 4 | 2 53 25 | 11°46'46 | 12♍36 | 14°33 | 17°22 | 5°25 | 13°37 | 7°48 | 2°20 | 24° 5 | 15°41 | 21°35 | 20°46 | 19° 5 | 16°21 | W 4 |
| T 5 | 2 57 22 | 12°47'06 | 25°27 | 16° 9 | 18°37 | 6° 2 | 13°37 | 7°53 | 2°23 | 24° 7 | 15°40 | 21°31 | 20°43 | 19°11 | 16°29 | T 5 |
| F 6 | 3 1 18 | 13°47'28 | 8♎ 6 | 17°44 | 19°52 | 6°40 | 13°36 | 7°57 | 2°25 | 24° 9 | 15°39 | 21°24 | 20°40 | 19°18 | 16°37 | F 6 |
| S 7 | 3 5 15 | 14°47'52 | 20°35 | 19°18 | 21° 6 | 7°18 | 13°35 | 8° 2 | 2°28 | 24°11 | 15°38 | 21°15 | 20°37 | 19°25 | 16°45 | S 7 |
| S 8 | 3 9 11 | 15°48'17 | 2♏54 | 20°53 | 22°21 | 7°56 | 13°35 | 8° 6 | 2°31 | 24°12 | 15°37 | 21° 2 | 20°33 | 19°32 | 16°53 | S 8 |
| M 9 | 3 13 8 | 16°48'44 | 15° 6 | 22°27 | 23°36 | 8°34 | 13°D35 | 8°10 | 2°33 | 24°14 | 15°36 | 20°48 | 20°30 | 19°38 | 17° 2 | M 9 |
| T 10 | 3 17 4 | 17°49'13 | 27°10 | 24° 0 | 24°51 | 9°12 | 13°35 | 8°15 | 2°36 | 24°16 | 15°35 | 20°33 | 20°27 | 19°45 | 17°10 | T 10 |
| W11 | 3 21 1 | 18°49'44 | 9♐ 7 | 25°34 | 26° 6 | 9°50 | 13°36 | 8°19 | 2°39 | 24°18 | 15°34 | 20°18 | 20°24 | 19°52 | 17°18 | W11 |
| T 12 | 3 24 57 | 19°50'16 | 20°59 | 27° 7 | 27°21 | 10°28 | 13°36 | 8°23 | 2°42 | 24°20 | 15°33 | 20° 6 | 20°21 | 19°58 | 17°26 | T 12 |
| F 13 | 3 28 54 | 20°50'49 | 2♑48 | 28°40 | 28°36 | 11° 5 | 13°37 | 8°27 | 2°45 | 24°22 | 15°32 | 19°56 | 20°17 | 20° 5 | 17°34 | F 13 |
| S 14 | 3 32 51 | 21°51'24 | 14°37 | 0♐13 | 29°50 | 11°43 | 13°38 | 8°30 | 2°48 | 24°24 | 15°31 | 19°49 | 20°14 | 20°12 | 17°42 | S 14 |
| S 15 | 3 36 47 | 22°52'00 | 26°29 | 1°46 | 1♏ 5 | 12°21 | 13°40 | 8°34 | 2°51 | 24°26 | 15°30 | 19°45 | 20°11 | 20°18 | 17°50 | S 15 |
| M16 | 3 40 44 | 23°52'38 | 8♒29 | 3°18 | 2°20 | 12°59 | 13°41 | 8°38 | 2°53 | 24°28 | 15°29 | 19°44 | 20° 8 | 20°25 | 17°58 | M16 |
| T 17 | 3 44 40 | 24°53'16 | 20°42 | 4°50 | 3°35 | 13°37 | 13°43 | 8°41 | 2°56 | 24°30 | 15°27 | 19°43 | 20° 5 | 20°32 | 18° 6 | T 17 |
| W18 | 3 48 37 | 25°53'56 | 3♓13 | 6°22 | 4°50 | 14°15 | 13°45 | 8°45 | 3° 0 | 24°32 | 15°26 | 19°43 | 20° 2 | 20°39 | 18°14 | W18 |
| T 19 | 3 52 33 | 26°54'36 | 16° 7 | 7°54 | 6° 6 | 14°52 | 13°47 | 8°48 | 3° 3 | 24°34 | 15°25 | 19°42 | 19°58 | 20°45 | 18°22 | T 19 |
| F 20 | 3 56 30 | 27°55'18 | 29°30 | 9°26 | 7°21 | 15°30 | 13°49 | 8°51 | 3° 6 | 24°36 | 15°24 | 19°39 | 19°55 | 20°52 | 18°30 | F 20 |
| S 21 | 4 0 26 | 28°56'01 | 13♈22 | 10°57 | 8°36 | 16° 8 | 13°51 | 8°55 | 3° 9 | 24°38 | 15°23 | 19°33 | 19°52 | 20°59 | 18°38 | S 21 |
| S 22 | 4 4 23 | 29°56'45 | 27°45 | 12°28 | 9°51 | 16°46 | 13°54 | 8°58 | 3°12 | 24°40 | 15°22 | 19°25 | 19°49 | 21° 5 | 18°46 | S 22 |
| M23 | 4 8 20 | 0♐57'30 | 12♉35 | 13°59 | 11° 6 | 17°23 | 13°57 | 9° 1 | 3°15 | 24°42 | 15°21 | 19°14 | 19°46 | 21°12 | 18°54 | M23 |
| T 24 | 4 12 16 | 1°58'16 | 27°43 | 15°30 | 12°21 | 18° 1 | 14° 0 | 9° 3 | 3°18 | 24°45 | 15°20 | 19° 3 | 19°43 | 21°19 | 19° 2 | T 24 |
| W25 | 4 16 13 | 2°59'04 | 13♊ 1 | 17° 0 | 13°36 | 18°39 | 14° 3 | 9° 6 | 3°21 | 24°47 | 15°19 | 18°52 | 19°39 | 21°25 | 19°10 | W25 |
| T 26 | 4 20 9 | 3°59'53 | 28°16 | 18°30 | 14°51 | 19°17 | 14° 7 | 9° 9 | 3°25 | 24°49 | 15°17 | 18°42 | 19°36 | 21°32 | 19°18 | T 26 |
| F 27 | 4 24 6 | 5° 0'43 | 13♋18 | 20° 0 | 16° 7 | 19°55 | 14°10 | 9°11 | 3°28 | 24°51 | 15°16 | 18°36 | 19°33 | 21°39 | 19°26 | F 27 |
| S 28 | 4 28 2 | 6° 1'34 | 27°59 | 21°30 | 17°22 | 20°32 | 14°14 | 9°14 | 3°31 | 24°53 | 15°15 | 18°32 | 19°30 | 21°46 | 19°34 | S 28 |
| S 29 | 4 31 59 | 7° 2'27 | 12♌14 | 22°58 | 18°37 | 21°10 | 14°18 | 9°16 | 3°34 | 24°55 | 15°14 | 18°30 | 19°27 | 21°52 | 19°41 | S 29 |
| M30 | 4 35 55 | 8♐ 3'21 | 26♌ 3 | 24♐27 | 19♏52 | 21♎48 | 14♓22 | 9♍19 | 3♑38 | 24♐58 | 15♊13 | 18°D30 | 19♒23 | 21♐59 | 19♏49 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s27 | 21n16 | 1n39 | 14s41 | 0n 5 | 3s53 | 1n38 | 0s20 | 1n10 | 7s47 | 1s28 | 10n13 | 1n35 | 23s45 | 0s17 | 22s 9 | 1n12 | 13n40 | 9s 6 | 14s20 | 14s33 | 27s33 | 14s35 | 2n 9 |
| M 2 | 14 46 | 16 29 | 0 29 | 15 17 | 0s 1 | 4 22 | 1 38 | 0 35 | 1 10 | 7 48 | 1 28 | 10 12 | 1 35 | 23 45 | 0 17 | 22 10 | 1 12 | 13 40 | 9 7 | 14 20 | 14 34 | 27 33 | 14 37 | 2 10 |
| T 3 | 15 5 | 11 1 | 0s42 | 15 53 | 0 8 | 4 51 | 1 38 | 0 50 | 1 10 | 7 48 | 1 28 | 10 10 | 1 36 | 23 45 | 0 17 | 22 10 | 1 12 | 13 39 | 9 7 | 14 20 | 14 35 | 27 33 | 14 39 | 2 10 |
| W 4 | 15 24 | 5 10 | 1 49 | 16 28 | 0 15 | 5 19 | 1 38 | 1 5 | 1 9 | 7 48 | 1 28 | 10 8 | 1 36 | 23 45 | 0 17 | 22 10 | 1 12 | 13 39 | 9 7 | 14 20 | 14 36 | 27 33 | 14 41 | 2 10 |
| T 5 | 15 42 | 0s46 | 2 48 | 17 2 | 0 21 | 5 48 | 1 38 | 1 21 | 1 9 | 7 48 | 1 27 | 10 7 | 1 36 | 23 45 | 0 17 | 22 10 | 1 11 | 13 39 | 9 7 | 14 21 | 14 37 | 27 33 | 14 43 | 2 10 |
| F 6 | 16 1 | 6 34 | 3 39 | 17 36 | 0 28 | 6 17 | 1 37 | 1 36 | 1 9 | 7 48 | 1 27 | 10 5 | 1 36 | 23 45 | 0 17 | 22 10 | 1 11 | 13 39 | 9 7 | 14 24 | 14 38 | 27 33 | 14 45 | 2 10 |
| S 7 | 16 18 | 12 2 | 4 18 | 18 8 | 0 34 | 6 45 | 1 37 | 1 51 | 1 9 | 7 48 | 1 27 | 10 4 | 1 36 | 23 45 | 0 17 | 22 10 | 1 11 | 13 39 | 9 7 | 14 27 | 14 39 | 27 34 | 14 47 | 2 11 |
| S 8 | 16 36 | 16 57 | 4 45 | 18 40 | 0 41 | 7 13 | 1 37 | 2 6 | 1 9 | 7 48 | 1 27 | 10 2 | 1 37 | 23 45 | 0 17 | 22 10 | 1 11 | 13 39 | 9 7 | 14 31 | 14 40 | 27 34 | 14 49 | 2 11 |
| M 9 | 16 54 | 21 8 | 4 58 | 19 11 | 0 47 | 7 42 | 1 36 | 2 21 | 1 9 | 7 48 | 1 26 | 10 1 | 1 37 | 23 45 | 0 17 | 22 10 | 1 11 | 13 38 | 9 7 | 14 35 | 14 41 | 27 34 | 14 51 | 2 11 |
| T 10 | 17 11 | 24 23 | 4 57 | 19 40 | 0 53 | 8 10 | 1 35 | 2 36 | 1 9 | 7 47 | 1 26 | 10 0 | 1 37 | 23 45 | 0 17 | 22 10 | 1 11 | 13 38 | 9 7 | 14 40 | 14 42 | 27 34 | 14 53 | 2 11 |
| W11 | 17 27 | 26 32 | 4 44 | 20 9 | 1 0 | 8 38 | 1 35 | 2 51 | 1 9 | 7 47 | 1 26 | 9 58 | 1 37 | 23 45 | 0 17 | 22 11 | 1 11 | 13 38 | 9 7 | 14 45 | 14 43 | 27 34 | 14 55 | 2 12 |
| T 12 | 17 44 | 27 28 | 4 18 | 20 37 | 1 6 | 9 5 | 1 34 | 3 6 | 1 8 | 7 47 | 1 26 | 9 57 | 1 38 | 23 45 | 0 17 | 22 11 | 1 11 | 13 38 | 9 7 | 14 49 | 14 44 | 27 34 | 14 57 | 2 12 |
| F 13 | 18 0 | 27 8 | 3 41 | 21 4 | 1 12 | 9 33 | 1 33 | 3 21 | 1 8 | 7 46 | 1 25 | 9 56 | 1 38 | 23 45 | 0 17 | 22 11 | 1 11 | 13 38 | 9 7 | 14 52 | 14 45 | 27 34 | 14 59 | 2 12 |
| S 14 | 18 16 | 25 34 | 2 54 | 21 30 | 1 17 | 10 0 | 1 32 | 3 36 | 1 8 | 7 45 | 1 25 | 9 55 | 1 38 | 23 44 | 0 17 | 22 11 | 1 11 | 13 38 | 9 7 | 14 54 | 14 46 | 27 34 | 15 1 | 2 13 |
| S 15 | 18 32 | 22 51 | 2 0 | 21 54 | 1 23 | 10 27 | 1 31 | 3 51 | 1 8 | 7 45 | 1 25 | 9 53 | 1 38 | 23 44 | 0 17 | 22 11 | 1 11 | 13 37 | 9 7 | 14 55 | 14 47 | 27 34 | 15 3 | 2 13 |
| M16 | 18 47 | 19 8 | 0 59 | 22 18 | 1 28 | 10 54 | 1 30 | 4 6 | 1 8 | 7 44 | 1 25 | 9 52 | 1 38 | 23 44 | 0 17 | 22 11 | 1 11 | 13 37 | 9 7 | 14 56 | 14 48 | 27 34 | 15 5 | 2 13 |
| T 17 | 19 2 | 14 32 | 0n 5 | 22 41 | 1 34 | 11 20 | 1 29 | 4 20 | 1 8 | 7 43 | 1 24 | 9 51 | 1 39 | 23 44 | 0 17 | 22 11 | 1 11 | 13 37 | 9 7 | 14 56 | 14 49 | 27 34 | 15 7 | 2 13 |
| W18 | 19 16 | 9 15 | 1 11 | 23 2 | 1 39 | 11 47 | 1 28 | 4 35 | 1 8 | 7 42 | 1 24 | 9 50 | 1 39 | 23 44 | 0 17 | 22 11 | 1 11 | 13 37 | 9 7 | 14 56 | 14 50 | 27 34 | 15 9 | 2 14 |
| T 19 | 19 30 | 3 25 | 2 15 | 23 22 | 1 43 | 12 13 | 1 27 | 4 50 | 1 7 | 7 41 | 1 24 | 9 49 | 1 39 | 23 44 | 0 17 | 22 11 | 1 11 | 13 37 | 9 7 | 14 56 | 14 51 | 27 35 | 15 11 | 2 14 |
| F 20 | 19 44 | 2n46 | 3 14 | 23 41 | 1 48 | 12 39 | 1 25 | 5 5 | 1 7 | 7 40 | 1 24 | 9 48 | 1 39 | 23 44 | 0 17 | 22 12 | 1 11 | 13 37 | 9 7 | 14 57 | 14 52 | 27 35 | 15 13 | 2 14 |
| S 21 | 19 58 | 9 1 | 4 3 | 23 59 | 1 52 | 13 4 | 1 24 | 5 20 | 1 7 | 7 39 | 1 23 | 9 47 | 1 40 | 23 44 | 0 17 | 22 12 | 1 11 | 13 37 | 9 7 | 14 59 | 14 53 | 27 35 | 15 15 | 2 14 |
| S 22 | 20 11 | 15 3 | 4 40 | 24 16 | 1 57 | 13 29 | 1 23 | 5 34 | 1 7 | 7 37 | 1 23 | 9 46 | 1 40 | 23 44 | 0 17 | 22 12 | 1 11 | 13 37 | 9 7 | 15 2 | 14 54 | 27 35 | 15 17 | 2 15 |
| M23 | 20 23 | 20 23 | 4 59 | 24 31 | 2 1 | 13 54 | 1 21 | 5 49 | 1 7 | 7 36 | 1 23 | 9 45 | 1 40 | 23 44 | 0 17 | 22 12 | 1 11 | 13 36 | 9 7 | 15 5 | 14 55 | 27 35 | 15 19 | 2 15 |
| T 24 | 20 36 | 24 31 | 4 57 | 24 45 | 2 4 | 14 18 | 1 20 | 6 3 | 1 7 | 7 35 | 1 23 | 9 44 | 1 40 | 23 44 | 0 17 | 22 12 | 1 11 | 13 36 | 9 7 | 15 9 | 14 56 | 27 35 | 15 21 | 2 15 |
| W25 | 20 48 | 26 57 | 4 35 | 24 58 | 2 7 | 14 42 | 1 18 | 6 18 | 1 6 | 7 33 | 1 22 | 9 44 | 1 41 | 23 44 | 0 17 | 22 12 | 1 11 | 13 36 | 9 7 | 15 12 | 14 57 | 27 35 | 15 22 | 2 16 |
| T 26 | 20 59 | 27 21 | 3 53 | 25 9 | 2 10 | 15 6 | 1 17 | 6 32 | 1 6 | 7 32 | 1 22 | 9 43 | 1 41 | 23 44 | 0 17 | 22 12 | 1 11 | 13 36 | 9 7 | 15 15 | 14 58 | 27 35 | 15 24 | 2 16 |
| F 27 | 21 11 | 25 43 | 2 55 | 25 19 | 2 13 | 15 30 | 1 15 | 6 47 | 1 6 | 7 30 | 1 22 | 9 42 | 1 41 | 23 43 | 0 17 | 22 12 | 1 11 | 13 36 | 9 7 | 15 17 | 14 59 | 27 35 | 15 26 | 2 16 |
| S 28 | 21 21 | 22 21 | 1 47 | 25 28 | 2 15 | 15 53 | 1 13 | 7 1 | 1 6 | 7 28 | 1 22 | 9 41 | 1 41 | 23 43 | 0 17 | 22 12 | 1 11 | 13 36 | 9 7 | 15 18 | 15 0 | 27 34 | 15 28 | 2 17 |
| S 29 | 21 32 | 17 41 | 0 33 | 25 35 | 2 17 | 16 15 | 1 12 | 7 16 | 1 6 | 7 27 | 1 21 | 9 41 | 1 42 | 23 43 | 0 17 | 22 13 | 1 11 | 13 36 | 9 7 | 15 19 | 15 1 | 27 34 | 15 30 | 2 17 |
| M30 | 21s42 | 12n14 | 0s40 | 25s41 | 2s19 | 16s37 | 1n10 | 7s30 | 1n 5 | 7s25 | 1s21 | 9n40 | 1n42 | 23s43 | 0s17 | 22s13 | 1n11 | 13n36 | 9s 7 | 15s19 | 15s 2 | 27s34 | 15s31 | 2n17 |

Julian Day Number = 2325475.5, Delta T = 39.95 sec
Ecliptic obliquity = 23°29'10, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'21, Lahiri = 19°02'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1654
# geocentric

## DECEMBER 1654 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 39 52 | 9♐ 4'17 | 9♍27 | 25♐55 | 21♏ 8 | 22♎26 | 14♓27 | 9♍21 | 3♉41 | 25♐ 0 | 15°R12 | 18°R31 | 19♒20 | 22♐ 6 | 19♏57 | T 1 |
| W 2 | 4 43 49 | 10° 5'13 | 22°29 | 27°21 | 22°23 | 23° 3 | 14°31 | 9°23 | 3°44 | 25° 2 | 15♊11 | 18♒30 | 19°17 | 22°12 | 20° 5 | W 2 |
| T 3 | 4 47 45 | 11° 6'11 | 5♎12 | 28°48 | 23°38 | 23°41 | 14°36 | 9°25 | 3°48 | 25° 4 | 15° 9 | 18°27 | 19°14 | 22°19 | 20°13 | T 3 |
| F 4 | 4 51 42 | 12° 7'10 | 17°40 | 0♉13 | 24°53 | 24°19 | 14°41 | 9°26 | 3°51 | 25° 6 | 15° 8 | 18°22 | 19°11 | 22°26 | 20°20 | F 4 |
| S 5 | 4 55 38 | 13° 8'11 | 29°56 | 1°37 | 26° 9 | 24°57 | 14°46 | 9°28 | 3°55 | 25° 9 | 15° 7 | 18°14 | 19° 8 | 22°32 | 20°28 | S 5 |
| S 6 | 4 59 35 | 14° 9'12 | 12♏ 4 | 2°59 | 27°24 | 25°34 | 14°51 | 9°30 | 3°58 | 25°11 | 15° 6 | 18° 3 | 19° 4 | 22°39 | 20°36 | S 6 |
| M 7 | 5 3 31 | 15°10'14 | 24° 5 | 4°20 | 28°39 | 26°12 | 14°57 | 9°31 | 4° 2 | 25°13 | 15° 5 | 17°51 | 19° 1 | 22°46 | 20°43 | M 7 |
| T 8 | 5 7 28 | 16°11'18 | 6♐ 1 | 5°39 | 29°55 | 26°50 | 15° 3 | 9°33 | 4° 5 | 25°15 | 15° 4 | 17°38 | 18°58 | 22°53 | 20°51 | T 8 |
| W 9 | 5 11 25 | 17°12'22 | 17°54 | 6°56 | 1♐10 | 27°27 | 15° 9 | 9°34 | 4° 8 | 25°18 | 15° 2 | 17°26 | 18°55 | 22°59 | 20°58 | W 9 |
| T 10 | 5 15 21 | 18°13'27 | 29°44 | 8°10 | 2°26 | 28° 5 | 15°15 | 9°35 | 4°12 | 25°20 | 15° 1 | 17°15 | 18°52 | 23° 6 | 21° 6 | T 10 |
| F 11 | 5 19 18 | 19°14'32 | 11♉34 | 9°21 | 3°41 | 28°43 | 15°21 | 9°36 | 4°15 | 25°22 | 15° 0 | 17° 7 | 18°49 | 23°13 | 21°13 | F 11 |
| S 12 | 5 23 14 | 20°15'39 | 23°25 | 10°28 | 4°56 | 29°20 | 15°27 | 9°37 | 4°19 | 25°24 | 14°59 | 17° 1 | 18°45 | 23°19 | 21°21 | S 12 |
| S 13 | 5 27 11 | 21°16'45 | 5♒20 | 11°31 | 6°12 | 29°58 | 15°34 | 9°38 | 4°22 | 25°27 | 14°58 | 16°58 | 18°42 | 23°26 | 21°28 | S 13 |
| M14 | 5 31 7 | 22°17'52 | 17°22 | 12°30 | 7°27 | 0♏36 | 15°40 | 9°39 | 4°26 | 25°29 | 14°57 | 16°D57 | 18°39 | 23°33 | 21°35 | M14 |
| T 15 | 5 35 4 | 23°18'59 | 29°36 | 13°23 | 8°43 | 1°13 | 15°47 | 9°39 | 4°30 | 25°31 | 14°55 | 16°58 | 18°36 | 23°40 | 21°43 | T 15 |
| W16 | 5 39 0 | 24°20'07 | 12♓ 5 | 14°10 | 9°58 | 1°51 | 15°54 | 9°40 | 4°33 | 25°33 | 14°54 | 16°59 | 18°33 | 23°46 | 21°50 | W16 |
| T 17 | 5 42 57 | 25°21'14 | 24°54 | 14°50 | 11°13 | 2°28 | 16° 2 | 9°40 | 4°37 | 25°36 | 14°53 | 16°R59 | 18°29 | 23°53 | 21°57 | T 17 |
| F 18 | 5 46 54 | 26°22'22 | 8♈ 8 | 15°22 | 12°29 | 3° 6 | 16° 9 | 9°40 | 4°40 | 25°38 | 14°52 | 16°59 | 18°26 | 24° 0 | 22° 4 | F 18 |
| S 19 | 5 50 50 | 27°23'30 | 21°50 | 15°45 | 13°44 | 3°44 | 16°17 | 9°41 | 4°44 | 25°40 | 14°51 | 16°56 | 18°23 | 24° 6 | 22°11 | S 19 |
| S 20 | 5 54 47 | 28°24'38 | 6♉ 1 | 15°58 | 15° 0 | 4°21 | 16°24 | 9°R41 | 4°47 | 25°43 | 14°50 | 16°51 | 18°20 | 24°13 | 22°18 | S 20 |
| M21 | 5 58 43 | 29°25'46 | 20°39 | 16°R 1 | 16°15 | 4°59 | 16°32 | 9°41 | 4°51 | 25°45 | 14°49 | 16°45 | 18°17 | 24°20 | 22°26 | M21 |
| T 22 | 6 2 40 | 0♉26'54 | 5♊41 | 15°52 | 17°30 | 5°36 | 16°40 | 9°40 | 4°55 | 25°47 | 14°48 | 16°37 | 18°14 | 24°26 | 22°32 | T 22 |
| W23 | 6 6 36 | 1°28'02 | 20°57 | 15°32 | 18°46 | 6°14 | 16°48 | 9°40 | 4°58 | 25°49 | 14°46 | 16°30 | 18°10 | 24°33 | 22°39 | W23 |
| T 24 | 6 10 33 | 2°29'11 | 6♋16 | 14°59 | 20° 1 | 6°51 | 16°56 | 9°40 | 5° 2 | 25°52 | 14°45 | 16°24 | 18° 7 | 24°40 | 22°46 | T 24 |
| F 25 | 6 14 29 | 3°30'20 | 21°28 | 14°16 | 21°17 | 7°29 | 17° 5 | 9°39 | 5° 5 | 25°54 | 14°44 | 16°20 | 18° 4 | 24°46 | 22°53 | F 25 |
| S 26 | 6 18 26 | 4°31'29 | 6♌22 | 13°21 | 22°32 | 8° 6 | 17°13 | 9°39 | 5° 9 | 25°56 | 14°43 | 16°17 | 18° 1 | 24°53 | 23° 0 | S 26 |
| S 27 | 6 22 23 | 5°32'38 | 20°53 | 12°17 | 23°47 | 8°44 | 17°22 | 9°38 | 5°12 | 25°58 | 14°42 | 16°D17 | 17°58 | 25° 0 | 23° 6 | S 27 |
| M28 | 6 26 19 | 6°33'47 | 4♍56 | 11° 5 | 25° 3 | 9°21 | 17°31 | 9°37 | 5°16 | 26° 1 | 14°41 | 16°18 | 17°55 | 25° 7 | 23°13 | M28 |
| T 29 | 6 30 16 | 7°34'57 | 18°31 | 9°47 | 26°18 | 9°58 | 17°40 | 9°36 | 5°20 | 26° 3 | 14°40 | 16°20 | 17°51 | 25°13 | 23°20 | T 29 |
| W30 | 6 34 12 | 8°36'06 | 1♎39 | 8°27 | 27°34 | 10°36 | 17°49 | 9°35 | 5°23 | 26° 5 | 14°39 | 16°21 | 17°48 | 25°20 | 23°26 | W30 |
| T 31 | 6 38 9 | 9♉37'17 | 14♎25 | 7♉ 6 | 28♐49 | 11♏13 | 17♓58 | 9♍34 | 5♉27 | 26♐ 7 | 14♊38 | 16°R21 | 17♒45 | 25♐27 | 23♏33 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s51 | 6n22 | 1s49 | 25s45 | 2s20 | 16s59 | 1n 8 | 7s44 | 1n 5 | 7s23 | 1s21 | 9n40 | 1n42 | 23s43 | 0s17 | 22s13 | 1n11 | 13n36 | 9s 7 | 15s19 | 15s 3 | 27s34 | 15s33 | 2n18 |
| W 2 | 22 0 | 0 23 | 2 50 | 25 48 | 2 21 | 17 20 | 1 6 | 7 58 | 1 5 | 7 21 | 1 21 | 9 39 | 1 42 | 23 43 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 19 | 15 4 | 27 34 | 15 35 | 2 18 |
| T 3 | 22 9 | 5s27 | 3 41 | 25 50 | 2 21 | 17 41 | 1 4 | 8 13 | 1 5 | 7 19 | 1 20 | 9 38 | 1 43 | 23 43 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 20 | 15 5 | 27 34 | 15 37 | 2 18 |
| F 4 | 22 17 | 10 57 | 4 21 | 25 49 | 2 20 | 18 1 | 1 2 | 8 27 | 1 5 | 7 17 | 1 20 | 9 38 | 1 43 | 23 43 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 21 | 15 6 | 27 34 | 15 38 | 2 19 |
| S 5 | 22 25 | 15 57 | 4 48 | 25 48 | 2 19 | 18 21 | 1 0 | 8 41 | 1 4 | 7 14 | 1 20 | 9 38 | 1 43 | 23 43 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 24 | 15 7 | 27 34 | 15 40 | 2 19 |
| S 6 | 22 33 | 20 15 | 5 1 | 25 45 | 2 18 | 18 41 | 0 58 | 8 55 | 1 4 | 7 12 | 1 20 | 9 37 | 1 43 | 23 43 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 27 | 15 8 | 27 34 | 15 42 | 2 19 |
| M 7 | 22 40 | 23 41 | 5 1 | 25 40 | 2 15 | 18 59 | 0 56 | 9 9 | 1 4 | 7 10 | 1 20 | 9 37 | 1 44 | 23 43 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 31 | 15 9 | 27 34 | 15 43 | 2 20 |
| T 8 | 22 46 | 26 4 | 4 47 | 25 34 | 2 12 | 19 18 | 0 54 | 9 22 | 1 4 | 7 7 | 1 19 | 9 37 | 1 44 | 23 42 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 35 | 15 10 | 27 34 | 15 45 | 2 20 |
| W 9 | 22 52 | 27 16 | 4 22 | 25 27 | 2 9 | 19 36 | 0 52 | 9 36 | 1 3 | 7 5 | 1 19 | 9 36 | 1 44 | 23 42 | 0 17 | 22 13 | 1 11 | 13 35 | 9 7 | 15 38 | 15 11 | 27 34 | 15 47 | 2 20 |
| T 10 | 22 58 | 27 14 | 3 44 | 25 18 | 2 4 | 19 53 | 0 49 | 9 50 | 1 3 | 7 2 | 1 19 | 9 36 | 1 44 | 23 42 | 0 17 | 22 14 | 1 11 | 13 35 | 9 7 | 15 42 | 15 12 | 27 33 | 15 48 | 2 21 |
| F 11 | 23 3 | 25 56 | 2 58 | 25 8 | 1 59 | 20 9 | 0 47 | 10 4 | 1 3 | 7 0 | 1 19 | 9 36 | 1 45 | 23 42 | 0 17 | 22 14 | 1 11 | 13 35 | 9 7 | 15 44 | 15 13 | 27 33 | 15 50 | 2 21 |
| S 12 | 23 8 | 23 28 | 2 3 | 24 56 | 1 52 | 20 26 | 0 45 | 10 17 | 1 3 | 6 57 | 1 18 | 9 36 | 1 45 | 23 42 | 0 17 | 22 14 | 1 11 | 13 35 | 9 7 | 15 46 | 15 14 | 27 33 | 15 51 | 2 21 |
| S 13 | 23 12 | 19 59 | 1 2 | 24 43 | 1 45 | 20 41 | 0 43 | 10 31 | 1 2 | 6 54 | 1 18 | 9 36 | 1 45 | 23 42 | 0 17 | 22 14 | 1 11 | 13 35 | 9 7 | 15 47 | 15 15 | 27 33 | 15 53 | 2 22 |
| M14 | 23 16 | 15 37 | 0n 2 | 24 30 | 1 36 | 20 56 | 0 40 | 10 44 | 1 2 | 6 51 | 1 18 | 9 36 | 1 46 | 23 42 | 0 17 | 22 14 | 1 11 | 13 35 | 9 7 | 15 47 | 15 16 | 27 33 | 15 55 | 2 22 |
| T 15 | 23 19 | 10 35 | 1 7 | 24 15 | 1 27 | 21 10 | 0 38 | 10 57 | 1 2 | 6 48 | 1 18 | 9 36 | 1 46 | 23 42 | 0 17 | 22 14 | 1 11 | 13 34 | 9 7 | 15 47 | 15 17 | 27 33 | 15 56 | 2 22 |
| W16 | 23 22 | 5 2 | 2 11 | 23 59 | 1 16 | 21 24 | 0 36 | 11 11 | 1 1 | 6 45 | 1 17 | 9 36 | 1 46 | 23 42 | 0 17 | 22 14 | 1 11 | 13 34 | 9 7 | 15 47 | 15 18 | 27 32 | 15 58 | 2 23 |
| T 17 | 23 24 | 0n52 | 3 10 | 23 43 | 1 4 | 21 37 | 0 33 | 11 24 | 1 1 | 6 42 | 1 17 | 9 36 | 1 46 | 23 41 | 0 17 | 22 14 | 1 11 | 13 34 | 9 7 | 15 46 | 15 19 | 27 32 | 15 59 | 2 23 |
| F 18 | 23 26 | 6 55 | 4 0 | 23 27 | 0 51 | 21 49 | 0 31 | 11 37 | 1 1 | 6 39 | 1 17 | 9 36 | 1 47 | 23 41 | 0 17 | 22 14 | 1 11 | 13 34 | 9 6 | 15 47 | 15 20 | 27 32 | 16 1 | 2 24 |
| S 19 | 23 28 | 12 50 | 4 39 | 23 10 | 0 37 | 22 1 | 0 29 | 11 50 | 1 1 | 6 36 | 1 17 | 9 36 | 1 47 | 23 41 | 0 17 | 22 14 | 1 11 | 13 34 | 9 6 | 15 47 | 15 21 | 27 32 | 16 2 | 2 24 |
| S 20 | 23 29 | 18 18 | 5 2 | 22 52 | 0 21 | 22 12 | 0 26 | 12 3 | 1 0 | 6 33 | 1 17 | 9 37 | 1 47 | 23 41 | 0 17 | 22 14 | 1 11 | 13 34 | 9 6 | 15 49 | 15 22 | 27 32 | 16 3 | 2 24 |
| M21 | 23 29 | 22 53 | 5 7 | 22 35 | 0 4 | 22 23 | 0 24 | 12 16 | 1 0 | 6 30 | 1 16 | 9 37 | 1 47 | 23 41 | 0 17 | 22 15 | 1 11 | 13 34 | 9 6 | 15 51 | 15 23 | 27 31 | 16 5 | 2 25 |
| T 22 | 23 29 | 26 4 | 4 51 | 22 19 | 0n14 | 22 33 | 0 21 | 12 29 | 1 0 | 6 27 | 1 16 | 9 37 | 1 48 | 23 41 | 0 17 | 22 15 | 1 11 | 13 34 | 9 6 | 15 53 | 15 24 | 27 31 | 16 6 | 2 25 |
| W23 | 23 29 | 27 24 | 4 14 | 22 3 | 0 32 | 22 42 | 0 19 | 12 41 | 0 59 | 6 23 | 1 16 | 9 37 | 1 48 | 23 41 | 0 17 | 22 15 | 1 11 | 13 34 | 9 6 | 15 55 | 15 25 | 27 31 | 16 7 | 2 26 |
| T 24 | 23 28 | 26 39 | 3 19 | 21 47 | 0 52 | 22 50 | 0 16 | 12 54 | 0 59 | 6 20 | 1 16 | 9 38 | 1 48 | 23 41 | 0 17 | 22 15 | 1 11 | 13 34 | 9 6 | 15 57 | 15 26 | 27 31 | 16 9 | 2 26 |
| F 25 | 23 26 | 23 55 | 2 10 | 21 32 | 1 11 | 22 58 | 0 14 | 13 6 | 0 59 | 6 16 | 1 16 | 9 38 | 1 48 | 23 40 | 0 17 | 22 15 | 1 11 | 13 34 | 9 6 | 15 58 | 15 27 | 27 30 | 16 10 | 2 26 |
| S 26 | 23 24 | 19 35 | 0 54 | 21 18 | 1 31 | 23 5 | 0 11 | 13 19 | 0 58 | 6 13 | 1 15 | 9 39 | 1 49 | 23 40 | 0 17 | 22 15 | 1 11 | 13 34 | 9 6 | 15 59 | 15 28 | 27 30 | 16 11 | 2 27 |
| S 27 | 23 22 | 14 10 | 0s25 | 21 5 | 1 50 | 23 11 | 0 9 | 13 31 | 0 58 | 6 9 | 1 15 | 9 39 | 1 49 | 23 40 | 0 17 | 22 15 | 1 11 | 13 34 | 9 6 | 15 59 | 15 29 | 27 30 | 16 13 | 2 27 |
| M28 | 23 19 | 8 11 | 1 40 | 20 53 | 2 8 | 23 17 | 0 7 | 13 44 | 0 58 | 6 5 | 1 15 | 9 40 | 1 49 | 23 40 | 0 17 | 22 15 | 1 11 | 13 34 | 9 5 | 15 59 | 15 30 | 27 30 | 16 14 | 2 28 |
| T 29 | 23 16 | 2 0 | 2 46 | 20 43 | 2 25 | 23 22 | 0 4 | 13 56 | 0 57 | 6 2 | 1 15 | 9 40 | 1 49 | 23 40 | 0 17 | 22 15 | 1 11 | 13 34 | 9 5 | 15 58 | 15 31 | 27 29 | 16 15 | 2 28 |
| W30 | 23 12 | 4s 3 | 3 42 | 20 33 | 2 40 | 23 26 | 0 2 | 14 8 | 0 57 | 5 58 | 1 15 | 9 41 | 1 50 | 23 40 | 0 17 | 22 15 | 1 11 | 13 34 | 9 5 | 15 58 | 15 32 | 27 29 | 16 16 | 2 28 |
| T 31 | 23s 8 | 9s45 | 4s25 | 20s25 | 2n53 | 23s30 | 0s 1 | 14s20 | 0n57 | 5s54 | 1s14 | 9n42 | 1n50 | 23s40 | 0s17 | 22s15 | 1n11 | 13n34 | 9s 5 | 15s58 | 15s33 | 27s29 | 16s17 | 2n29 |

Julian Day Number = 2325505.5, Delta T = 39.89 sec
Ecliptic obliquity = 23°29'10, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'25, Lahiri = 19°02'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## JANUARY 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 42 5 | 10♑38'27 | 26♎52 | 5°R47 | 0♑ 5 | 11♏51 | 18♓ 8 | 9°R33 | 5♑30 | 26♐10 | 14°R37 | 16°R20 | 17♒42 | 25♐33 | 23♏39 | F 1 |
| S 2 | 6 46 2 | 11°39'37 | 9♏ 4 | 4♑33 | 1°20 | 12°28 | 18°17 | 9♍31 | 5°34 | 26°12 | 14♊36 | 16♒16 | 17°39 | 25°40 | 23°45 | S 2 |
| S 3 | 6 49 58 | 12°40'48 | 21° 6 | 3°25 | 2°35 | 13° 5 | 18°27 | 9°30 | 5°38 | 26°14 | 14°35 | 16°12 | 17°35 | 25°47 | 23°52 | S 3 |
| M 4 | 6 53 55 | 13°41'58 | 3♐ 1 | 2°25 | 3°51 | 13°43 | 18°37 | 9°28 | 5°41 | 26°16 | 14°34 | 16° 6 | 17°32 | 25°53 | 23°58 | M 4 |
| T 5 | 6 57 52 | 14°43'09 | 14°52 | 1°35 | 5° 6 | 14°20 | 18°47 | 9°27 | 5°45 | 26°18 | 14°33 | 16° 0 | 17°29 | 26° 0 | 24° 4 | T 5 |
| W 6 | 7 1 48 | 15°44'19 | 26°42 | 0°54 | 6°22 | 14°57 | 18°57 | 9°25 | 5°48 | 26°20 | 14°32 | 15°54 | 17°26 | 26° 7 | 24°10 | W 6 |
| T 7 | 7 5 45 | 16°45'29 | 8♑32 | 0°23 | 7°37 | 15°35 | 19° 7 | 9°23 | 5°52 | 26°23 | 14°31 | 15°49 | 17°23 | 26°14 | 24°16 | T 7 |
| F 8 | 7 9 41 | 17°46'39 | 20°26 | 0° 2 | 8°53 | 16°12 | 19°17 | 9°21 | 5°55 | 26°25 | 14°30 | 15°45 | 17°20 | 26°20 | 24°22 | F 8 |
| S 9 | 7 13 38 | 18°47'49 | 2♒24 | 29♐50 | 10° 8 | 16°49 | 19°28 | 9°19 | 5°59 | 26°27 | 14°29 | 15°43 | 17°16 | 26°27 | 24°28 | S 9 |
| S 10 | 7 17 34 | 19°48'57 | 14°28 | 29°D47 | 11°23 | 17°27 | 19°38 | 9°17 | 6° 2 | 26°29 | 14°28 | 15°D42 | 17°13 | 26°34 | 24°33 | S 10 |
| M11 | 7 21 31 | 20°50'06 | 26°41 | 29°52 | 12°39 | 18° 4 | 19°49 | 9°14 | 6° 6 | 26°31 | 14°27 | 15°42 | 17°10 | 26°40 | 24°39 | M11 |
| T 12 | 7 25 28 | 21°51'13 | 9♓ 4 | 0♑ 6 | 13°54 | 18°41 | 20° 0 | 9°12 | 6° 9 | 26°33 | 14°26 | 15°44 | 17° 7 | 26°47 | 24°45 | T 12 |
| W13 | 7 29 24 | 22°52'20 | 21°40 | 0°26 | 15°10 | 19°18 | 20°10 | 9° 9 | 6°13 | 26°35 | 14°25 | 15°45 | 17° 4 | 26°54 | 24°50 | W13 |
| T 14 | 7 33 21 | 23°53'26 | 4♈33 | 0°53 | 16°25 | 19°55 | 20°21 | 9° 7 | 6°16 | 26°37 | 14°24 | 15°47 | 17° 1 | 27° 0 | 24°56 | T 14 |
| F 15 | 7 37 17 | 24°54'31 | 17°45 | 1°26 | 17°40 | 20°32 | 20°32 | 9° 4 | 6°20 | 26°40 | 14°23 | 15°48 | 16°57 | 27° 7 | 25° 1 | F 15 |
| S 16 | 7 41 14 | 25°55'35 | 1♉19 | 2° 4 | 18°56 | 21° 9 | 20°44 | 9° 1 | 6°23 | 26°42 | 14°23 | 15°R48 | 16°54 | 27°14 | 25° 6 | S 16 |
| S 17 | 7 45 10 | 26°56'38 | 15°17 | 2°47 | 20°11 | 21°46 | 20°55 | 8°59 | 6°27 | 26°44 | 14°22 | 15°47 | 16°51 | 27°20 | 25°12 | S 17 |
| M18 | 7 49 7 | 27°57'40 | 29°37 | 3°34 | 21°27 | 22°23 | 21° 6 | 8°56 | 6°30 | 26°46 | 14°21 | 15°45 | 16°48 | 27°27 | 25°17 | M18 |
| T 19 | 7 53 3 | 28°58'41 | 14♊17 | 4°26 | 22°42 | 23° 0 | 21°18 | 8°53 | 6°34 | 26°48 | 14°20 | 15°43 | 16°45 | 27°34 | 25°22 | T 19 |
| W20 | 7 57 0 | 29°59'41 | 29°13 | 5°21 | 23°57 | 23°37 | 21°29 | 8°49 | 6°37 | 26°50 | 14°19 | 15°41 | 16°41 | 27°41 | 25°27 | W20 |
| T 21 | 8 0 57 | 1♒ 0'40 | 14♋16 | 6°19 | 25°13 | 24°14 | 21°41 | 8°46 | 6°40 | 26°52 | 14°19 | 15°39 | 16°38 | 27°47 | 25°32 | T 21 |
| F 22 | 8 4 53 | 2° 1'38 | 29°18 | 7°20 | 26°28 | 24°51 | 21°53 | 8°43 | 6°44 | 26°54 | 14°18 | 15°38 | 16°35 | 27°54 | 25°37 | F 22 |
| S 23 | 8 8 50 | 3° 2'35 | 14♌10 | 8°23 | 27°43 | 25°28 | 22° 5 | 8°40 | 6°47 | 26°55 | 14°17 | 15°D38 | 16°32 | 28° 1 | 25°41 | S 23 |
| S 24 | 8 12 46 | 4° 3'32 | 28°44 | 9°29 | 28°59 | 26° 5 | 22°16 | 8°36 | 6°50 | 26°57 | 14°17 | 15°38 | 16°29 | 28° 7 | 25°46 | S 24 |
| M25 | 8 16 43 | 5° 4'27 | 12♍55 | 10°38 | 0♒14 | 26°42 | 22°28 | 8°33 | 6°54 | 26°59 | 14°16 | 15°39 | 16°26 | 28°14 | 25°50 | M25 |
| T 26 | 8 20 39 | 6° 5'21 | 26°40 | 11°48 | 1°29 | 27°19 | 22°41 | 8°29 | 6°57 | 27° 1 | 14°15 | 15°40 | 16°22 | 28°21 | 25°55 | T 26 |
| W27 | 8 24 36 | 7° 6'15 | 9♎58 | 13° 0 | 2°45 | 27°55 | 22°53 | 8°25 | 7° 0 | 27° 3 | 14°14 | 15°40 | 16°19 | 28°27 | 25°59 | W27 |
| T 28 | 8 28 32 | 8° 7'08 | 22°51 | 14°14 | 4° 0 | 28°32 | 23° 5 | 8°21 | 7° 3 | 27° 5 | 14°14 | 15°41 | 16°16 | 28°34 | 26° 4 | T 28 |
| F 29 | 8 32 29 | 9° 8'00 | 5♏23 | 15°30 | 5°15 | 29° 9 | 23°17 | 8°18 | 7° 6 | 27° 7 | 14°13 | 15°R41 | 16°13 | 28°41 | 26° 8 | F 29 |
| S 30 | 8 36 26 | 10° 8'51 | 17°38 | 16°47 | 6°30 | 29°46 | 23°30 | 8°14 | 7°10 | 27° 8 | 14°13 | 15°41 | 16°10 | 28°47 | 26°12 | S 30 |
| S 31 | 8 40 22 | 11♒ 9'41 | 29♏40 | 18♑ 5 | 7♒46 | 0♐22 | 23♓42 | 8♍10 | 7♑13 | 27♐10 | 14♊12 | 15♒41 | 16♒ 7 | 28♐54 | 26♏16 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s 4 | 14s56 | 4s54 | 20s19 | 3n 3 | 23s32 | 0s 3 | 14s32 | 0n56 | 5s50 | 1s14 | 9n42 | 1n50 | 23s40 | 0s17 | 22s15 | 1n11 | 13n34 | 9s 5 | 15s58 | 15s34 | 27s29 | 16s19 | 2n29 |
| S 2 | 22 58 | 19 25 | 5 9 | 20 14 | 3 11 | 23 34 | 0 6 | 14 43 | 0 56 | 5 46 | 1 14 | 9 43 | 1 50 | 23 39 | 0 17 | 22 15 | 1 11 | 13 34 | 9 5 | 15 59 | 15 34 | 27 28 | 16 20 | 2 30 |
| S 3 | 22 53 | 23 3 | 5 10 | 20 11 | 3 16 | 23 36 | 0 8 | 14 55 | 0 55 | 5 42 | 1 14 | 9 44 | 1 51 | 23 39 | 0 17 | 22 15 | 1 11 | 13 34 | 9 5 | 16 1 | 15 35 | 27 28 | 16 21 | 2 30 |
| M 4 | 22 47 | 25 40 | 4 58 | 20 9 | 3 19 | 23 36 | 0 11 | 15 7 | 0 55 | 5 38 | 1 14 | 9 45 | 1 51 | 23 39 | 0 17 | 22 15 | 1 11 | 13 34 | 9 5 | 16 2 | 15 36 | 27 28 | 16 22 | 2 31 |
| T 5 | 22 40 | 27 9 | 4 33 | 20 9 | 3 19 | 23 36 | 0 13 | 15 18 | 0 55 | 5 34 | 1 13 | 9 46 | 1 51 | 23 39 | 0 17 | 22 16 | 1 11 | 13 34 | 9 4 | 16 4 | 15 37 | 27 27 | 16 23 | 2 31 |
| W 6 | 22 33 | 27 23 | 3 57 | 20 11 | 3 18 | 23 35 | 0 15 | 15 29 | 0 54 | 5 30 | 1 13 | 9 47 | 1 51 | 23 39 | 0 17 | 22 16 | 1 11 | 13 34 | 9 4 | 16 6 | 15 38 | 27 27 | 16 24 | 2 32 |
| T 7 | 22 26 | 26 22 | 3 10 | 20 14 | 3 15 | 23 34 | 0 18 | 15 41 | 0 54 | 5 26 | 1 13 | 9 47 | 1 52 | 23 39 | 0 17 | 22 16 | 1 11 | 13 34 | 9 4 | 16 8 | 15 39 | 27 27 | 16 25 | 2 32 |
| F 8 | 22 18 | 24 8 | 2 14 | 20 19 | 3 10 | 23 31 | 0 20 | 15 52 | 0 53 | 5 22 | 1 13 | 9 48 | 1 52 | 23 38 | 0 17 | 22 16 | 1 11 | 13 34 | 9 4 | 16 9 | 15 40 | 27 26 | 16 26 | 2 32 |
| S 9 | 22 10 | 20 50 | 1 12 | 20 25 | 3 4 | 23 28 | 0 22 | 16 3 | 0 53 | 5 18 | 1 13 | 9 49 | 1 52 | 23 38 | 0 17 | 22 16 | 1 11 | 13 35 | 9 4 | 16 9 | 15 41 | 27 26 | 16 27 | 2 33 |
| S 10 | 22 1 | 16 38 | 0 7 | 20 32 | 2 57 | 23 24 | 0 25 | 16 14 | 0 52 | 5 13 | 1 13 | 9 51 | 1 52 | 23 38 | 0 17 | 22 16 | 1 11 | 13 35 | 9 4 | 16 10 | 15 42 | 27 25 | 16 28 | 2 33 |
| M11 | 21 52 | 11 42 | 1n 0 | 20 40 | 2 50 | 23 20 | 0 27 | 16 25 | 0 52 | 5 9 | 1 12 | 9 52 | 1 53 | 23 38 | 0 17 | 22 16 | 1 11 | 13 35 | 9 3 | 16 10 | 15 43 | 27 25 | 16 29 | 2 34 |
| T 12 | 21 43 | 6 15 | 2 5 | 20 48 | 2 41 | 23 15 | 0 29 | 16 35 | 0 52 | 5 5 | 1 12 | 9 53 | 1 53 | 23 38 | 0 17 | 22 16 | 1 11 | 13 35 | 9 3 | 16 9 | 15 44 | 27 25 | 16 30 | 2 34 |
| W13 | 21 33 | 0 28 | 3 5 | 20 57 | 2 32 | 23 9 | 0 32 | 16 46 | 0 51 | 5 0 | 1 12 | 9 54 | 1 53 | 23 38 | 0 17 | 22 16 | 1 11 | 13 35 | 9 3 | 16 9 | 15 45 | 27 24 | 16 31 | 2 35 |
| T 14 | 21 22 | 5n27 | 3 58 | 21 6 | 2 23 | 23 2 | 0 34 | 16 56 | 0 51 | 4 56 | 1 12 | 9 55 | 1 53 | 23 38 | 0 17 | 22 16 | 1 11 | 13 35 | 9 3 | 16 8 | 15 46 | 27 24 | 16 31 | 2 35 |
| F 15 | 21 11 | 11 16 | 4 39 | 21 16 | 2 13 | 22 55 | 0 36 | 17 7 | 0 50 | 4 51 | 1 12 | 9 56 | 1 54 | 23 37 | 0 17 | 22 16 | 1 11 | 13 35 | 9 3 | 16 8 | 15 47 | 27 23 | 16 32 | 2 36 |
| S 16 | 21 0 | 16 44 | 5 6 | 21 25 | 2 3 | 22 47 | 0 38 | 17 17 | 0 50 | 4 47 | 1 12 | 9 58 | 1 54 | 23 37 | 0 17 | 22 16 | 1 11 | 13 35 | 9 3 | 16 8 | 15 48 | 27 23 | 16 33 | 2 36 |
| S 17 | 20 49 | 21 28 | 5 16 | 21 34 | 1 53 | 22 38 | 0 40 | 17 27 | 0 49 | 4 42 | 1 11 | 9 59 | 1 54 | 23 37 | 0 17 | 22 16 | 1 11 | 13 35 | 9 2 | 16 8 | 15 49 | 27 23 | 16 34 | 2 37 |
| M18 | 20 37 | 25 6 | 5 7 | 21 43 | 1 43 | 22 28 | 0 42 | 17 37 | 0 49 | 4 37 | 1 11 | 10 0 | 1 54 | 23 37 | 0 17 | 22 16 | 1 11 | 13 35 | 9 2 | 16 9 | 15 50 | 27 22 | 16 35 | 2 37 |
| T 19 | 20 24 | 27 9 | 4 38 | 21 52 | 1 33 | 22 18 | 0 44 | 17 47 | 0 48 | 4 33 | 1 11 | 10 2 | 1 54 | 23 37 | 0 17 | 22 16 | 1 11 | 13 35 | 9 2 | 16 9 | 15 51 | 27 22 | 16 35 | 2 38 |
| W20 | 20 11 | 27 18 | 3 49 | 22 0 | 1 23 | 22 7 | 0 46 | 17 57 | 0 48 | 4 28 | 1 11 | 10 3 | 1 55 | 23 37 | 0 17 | 22 16 | 1 11 | 13 35 | 9 2 | 16 10 | 15 52 | 27 21 | 16 36 | 2 38 |
| T 21 | 19 58 | 25 27 | 2 45 | 22 7 | 1 13 | 21 56 | 0 48 | 18 6 | 0 47 | 4 23 | 1 11 | 10 4 | 1 55 | 23 37 | 0 17 | 22 16 | 1 11 | 13 36 | 9 2 | 16 10 | 15 53 | 27 21 | 16 37 | 2 39 |
| F 22 | 19 45 | 21 48 | 1 29 | 22 14 | 1 3 | 21 44 | 0 50 | 18 16 | 0 47 | 4 19 | 1 11 | 10 6 | 1 55 | 23 36 | 0 18 | 22 16 | 1 11 | 13 36 | 9 1 | 16 11 | 15 54 | 27 20 | 16 37 | 2 39 |
| S 23 | 19 31 | 16 44 | 0 8 | 22 20 | 0 53 | 21 31 | 0 52 | 18 25 | 0 46 | 4 14 | 1 10 | 10 7 | 1 55 | 23 36 | 0 18 | 22 16 | 1 11 | 13 36 | 9 1 | 16 11 | 15 55 | 27 20 | 16 38 | 2 40 |
| S 24 | 19 17 | 10 49 | 1s12 | 22 25 | 0 43 | 21 17 | 0 54 | 18 34 | 0 46 | 4 9 | 1 10 | 10 9 | 1 56 | 23 36 | 0 18 | 22 16 | 1 11 | 13 36 | 9 1 | 16 11 | 15 56 | 27 19 | 16 38 | 2 40 |
| M25 | 19 2 | 4 29 | 2 26 | 22 30 | 0 34 | 21 3 | 0 56 | 18 44 | 0 45 | 4 4 | 1 10 | 10 10 | 1 56 | 23 36 | 0 18 | 22 16 | 1 11 | 13 36 | 9 1 | 16 11 | 15 57 | 27 19 | 16 39 | 2 41 |
| T 26 | 18 47 | 1s51 | 3 28 | 22 33 | 0 25 | 20 48 | 0 58 | 18 53 | 0 44 | 3 59 | 1 10 | 10 12 | 1 56 | 23 36 | 0 18 | 22 16 | 1 11 | 13 36 | 9 1 | 16 10 | 15 58 | 27 18 | 16 39 | 2 41 |
| W27 | 18 32 | 7 54 | 4 18 | 22 35 | 0 16 | 20 33 | 1 0 | 19 1 | 0 44 | 3 54 | 1 10 | 10 13 | 1 56 | 23 36 | 0 18 | 22 16 | 1 11 | 13 36 | 9 0 | 16 10 | 15 59 | 27 18 | 16 40 | 2 42 |
| T 28 | 18 16 | 13 26 | 4 53 | 22 37 | 0 7 | 20 17 | 1 1 | 19 10 | 0 43 | 3 49 | 1 10 | 10 15 | 1 56 | 23 35 | 0 18 | 22 16 | 1 11 | 13 36 | 9 0 | 16 10 | 15 59 | 27 17 | 16 40 | 2 42 |
| F 29 | 18 0 | 18 15 | 5 12 | 22 37 | 0s 2 | 20 1 | 1 3 | 19 19 | 0 43 | 3 44 | 1 10 | 10 17 | 1 57 | 23 35 | 0 18 | 22 16 | 1 11 | 13 37 | 9 0 | 16 10 | 16 0 | 27 17 | 16 41 | 2 43 |
| S 30 | 17 44 | 22 11 | 5 17 | 22 36 | 0 11 | 19 43 | 1 4 | 19 27 | 0 42 | 3 39 | 1 10 | 10 18 | 1 57 | 23 35 | 0 18 | 22 16 | 1 11 | 13 37 | 9 0 | 16 10 | 16 1 | 27 16 | 16 41 | 2 43 |
| S 31 | 17s28 | 25s 8 | 5s 8 | 22s34 | 0s19 | 19s26 | 1s 6 | 19s36 | 0n41 | 3s34 | 1s 9 | 10n20 | 1n57 | 23s35 | 0s18 | 22s16 | 1n11 | 13n37 | 9s 0 | 16s10 | 16s 2 | 27s16 | 16s42 | 2n44 |

Julian Day Number = 2325536.5, Delta T = 39.83 sec
Ecliptic obliquity = 23°29'09, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'29, Lahiri = 19°02'30Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## FEBRUARY 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 44 19 | 12♒10'31 | 11♐33 | 19♑25 | 9♒ 1 | 0♐59 | 23♓55 | 8°R 6 | 7♑16 | 27♐12 | 14°R11 | 15°R41 | 16♒ 3 | 29♐ 1 | 26♏20 | M 1 |
| T 2 | 8 48 15 | 13°11'19 | 23°23 | 20°46 | 10°16 | 1°36 | 24° 8 | 8♍ 2 | 7°19 | 27°14 | 14♊11 | 15♒40 | 16° 0 | 29° 7 | 26°24 | T 2 |
| W 3 | 8 52 12 | 14°12'06 | 5♑13 | 22° 9 | 11°32 | 2°12 | 24°20 | 7°57 | 7°22 | 27°15 | 14°10 | 15°40 | 15°57 | 29°14 | 26°27 | W 3 |
| T 4 | 8 56 8 | 15°12'53 | 17° 5 | 23°32 | 12°47 | 2°49 | 24°33 | 7°53 | 7°25 | 27°17 | 14°10 | 15°D40 | 15°54 | 29°21 | 26°31 | T 4 |
| F 5 | 9 0 5 | 16°13'38 | 29° 5 | 24°56 | 14° 2 | 3°25 | 24°46 | 7°49 | 7°28 | 27°19 | 14° 9 | 15°40 | 15°51 | 29°28 | 26°34 | F 5 |
| S 6 | 9 4 1 | 17°14'21 | 11♒12 | 26°22 | 15°17 | 4° 2 | 24°59 | 7°45 | 7°31 | 27°20 | 14° 9 | 15°R40 | 15°47 | 29°34 | 26°38 | S 6 |
| S 7 | 9 7 58 | 18°15'04 | 23°30 | 27°49 | 16°32 | 4°38 | 25°12 | 7°40 | 7°34 | 27°22 | 14° 9 | 15°40 | 15°44 | 29°41 | 26°41 | S 7 |
| M 8 | 9 11 55 | 19°15'45 | 5♓59 | 29°16 | 17°48 | 5°14 | 25°25 | 7°36 | 7°37 | 27°24 | 14° 8 | 15°40 | 15°41 | 29°48 | 26°44 | M 8 |
| T 9 | 9 15 51 | 20°16'24 | 18°40 | 0♒45 | 19° 3 | 5°51 | 25°38 | 7°31 | 7°40 | 27°25 | 14° 8 | 15°39 | 15°38 | 29°54 | 26°47 | T 9 |
| W10 | 9 19 48 | 21°17'02 | 1♈35 | 2°14 | 20°18 | 6°27 | 25°52 | 7°27 | 7°43 | 27°27 | 14° 7 | 15°39 | 15°35 | 0♑ 1 | 26°50 | W10 |
| T 11 | 9 23 44 | 22°17'38 | 14°43 | 3°45 | 21°33 | 7° 3 | 26° 5 | 7°22 | 7°46 | 27°28 | 14° 7 | 15°38 | 15°32 | 0° 8 | 26°53 | T 11 |
| F 12 | 9 27 41 | 23°18'12 | 28° 6 | 5°16 | 22°48 | 7°39 | 26°18 | 7°18 | 7°48 | 27°30 | 14° 7 | 15°37 | 15°28 | 0°14 | 26°56 | F 12 |
| S 13 | 9 31 37 | 24°18'45 | 11♉44 | 6°48 | 24° 4 | 8°16 | 26°32 | 7°13 | 7°51 | 27°31 | 14° 6 | 15°36 | 15°25 | 0°21 | 26°59 | S 13 |
| S 14 | 9 35 34 | 25°19'15 | 25°36 | 8°21 | 25°19 | 8°52 | 26°45 | 7° 9 | 7°54 | 27°33 | 14° 6 | 15°D36 | 15°22 | 0°28 | 27° 1 | S 14 |
| M15 | 9 39 30 | 26°19'44 | 9♊43 | 9°56 | 26°34 | 9°28 | 26°59 | 7° 4 | 7°56 | 27°34 | 14° 6 | 15°36 | 15°19 | 0°34 | 27° 4 | M15 |
| T 16 | 9 43 27 | 27°20'11 | 24° 3 | 11°31 | 27°49 | 10° 4 | 27°12 | 6°59 | 7°59 | 27°35 | 14° 6 | 15°37 | 15°16 | 0°41 | 27° 6 | T 16 |
| W17 | 9 47 24 | 28°20'36 | 8♋32 | 13° 7 | 29° 4 | 10°40 | 27°26 | 6°55 | 8° 2 | 27°37 | 14° 5 | 15°38 | 15°13 | 0°48 | 27° 9 | W17 |
| T 18 | 9 51 20 | 29°21'00 | 23° 8 | 14°44 | 0♓19 | 11°16 | 27°39 | 6°50 | 8° 4 | 27°38 | 14° 5 | 15°39 | 15° 9 | 0°54 | 27°11 | T 18 |
| F 19 | 9 55 17 | 0♓21'21 | 7♌45 | 16°22 | 1°34 | 11°51 | 27°53 | 6°45 | 8° 7 | 27°39 | 14° 5 | 15°40 | 15° 6 | 1° 1 | 27°13 | F 19 |
| S 20 | 9 59 13 | 1°21'40 | 22°16 | 18° 1 | 2°49 | 12°27 | 28° 7 | 6°40 | 8° 9 | 27°40 | 14° 5 | 15°R40 | 15° 3 | 1° 8 | 27°15 | S 20 |
| S 21 | 10 3 10 | 2°21'58 | 6♍37 | 19°41 | 4° 4 | 13° 3 | 28°21 | 6°35 | 8°12 | 27°42 | 14° 5 | 15°39 | 15° 0 | 1°14 | 27°17 | S 21 |
| M22 | 10 7 6 | 3°22'13 | 20°41 | 21°21 | 5°19 | 13°39 | 28°34 | 6°31 | 8°14 | 27°43 | 14° 5 | 15°37 | 14°57 | 1°21 | 27°18 | M22 |
| T 23 | 10 11 3 | 4°22'28 | 4♎25 | 23° 3 | 6°34 | 14°14 | 28°48 | 6°26 | 8°17 | 27°44 | 14° 5 | 15°35 | 14°53 | 1°28 | 27°20 | T 23 |
| W24 | 10 14 59 | 5°22'40 | 17°46 | 24°46 | 7°49 | 14°50 | 29° 2 | 6°21 | 8°19 | 27°45 | 14° 4 | 15°32 | 14°50 | 1°35 | 27°22 | W24 |
| T 25 | 10 18 56 | 6°22'51 | 0♏44 | 26°30 | 9° 4 | 15°25 | 29°16 | 6°16 | 8°21 | 27°46 | 14° 4 | 15°29 | 14°47 | 1°41 | 27°23 | T 25 |
| F 26 | 10 22 53 | 7°23'00 | 13°21 | 28°15 | 10°19 | 16° 1 | 29°30 | 6°11 | 8°24 | 27°47 | 14° 4 | 15°26 | 14°44 | 1°48 | 27°24 | F 26 |
| S 27 | 10 26 49 | 8°23'08 | 25°40 | 0♓ 1 | 11°34 | 16°36 | 29°44 | 6° 7 | 8°26 | 27°48 | 14°D 4 | 15°25 | 14°41 | 1°55 | 27°26 | S 27 |
| S 28 | 10 30 46 | 9♓23'14 | 7♐44 | 1♓49 | 12♓49 | 17♐12 | 29♓58 | 6♍ 2 | 8♑28 | 27♐49 | 14♊ 4 | 15°D24 | 14♒38 | 2♑ 1 | 27♏27 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s11 | 26s56 | 4s46 | 22s31 | 0s27 | 19s 7 | 1s 8 | 19s44 | 0n41 | 3s29 | 1s 9 | 10n22 | 1n57 | 23s35 | 0s18 | 22s17 | 1n11 | 13n37 | 8s59 | 16s10 | 16s 3 | 27s15 | 16s42 | 2n45 |
| T 2 | 16 54 | 27 30 | 4 11 | 22 27 | 0 34 | 18 48 | 1 9 | 19 52 | 0 40 | 3 24 | 1 9 | 10 23 | 1 57 | 23 35 | 0 18 | 22 17 | 1 11 | 13 37 | 8 59 | 16 10 | 16 4 | 27 15 | 16 42 | 2 45 |
| W 3 | 16 36 | 26 49 | 3 26 | 22 21 | 0 42 | 18 29 | 1 10 | 20 0 | 0 39 | 3 19 | 1 9 | 10 25 | 1 57 | 23 34 | 0 18 | 22 17 | 1 11 | 13 37 | 8 59 | 16 10 | 16 5 | 27 14 | 16 43 | 2 46 |
| T 4 | 16 18 | 24 54 | 2 32 | 22 14 | 0 49 | 18 9 | 1 12 | 20 8 | 0 39 | 3 13 | 1 9 | 10 27 | 1 58 | 23 34 | 0 18 | 22 17 | 1 11 | 13 37 | 8 59 | 16 10 | 16 6 | 27 13 | 16 43 | 2 46 |
| F 5 | 16 0 | 21 52 | 1 31 | 22 6 | 0 56 | 17 49 | 1 13 | 20 15 | 0 38 | 3 8 | 1 9 | 10 28 | 1 58 | 23 34 | 0 18 | 22 17 | 1 11 | 13 38 | 8 59 | 16 10 | 16 7 | 27 13 | 16 43 | 2 47 |
| S 6 | 15 42 | 17 51 | 0 25 | 21 57 | 1 3 | 17 28 | 1 14 | 20 23 | 0 37 | 3 3 | 1 9 | 10 30 | 1 58 | 23 34 | 0 18 | 22 17 | 1 11 | 13 38 | 8 58 | 16 10 | 16 8 | 27 12 | 16 44 | 2 47 |
| S 7 | 15 23 | 13 2 | 0n43 | 21 46 | 1 9 | 17 6 | 1 15 | 20 30 | 0 37 | 2 58 | 1 9 | 10 32 | 1 58 | 23 34 | 0 18 | 22 17 | 1 11 | 13 38 | 8 58 | 16 10 | 16 9 | 27 12 | 16 44 | 2 48 |
| M 8 | 15 4 | 7 38 | 1 50 | 21 34 | 1 15 | 16 45 | 1 16 | 20 37 | 0 36 | 2 52 | 1 8 | 10 34 | 1 58 | 23 34 | 0 18 | 22 17 | 1 11 | 13 38 | 8 58 | 16 10 | 16 10 | 27 11 | 16 44 | 2 48 |
| T 9 | 14 45 | 1 50 | 2 53 | 21 21 | 1 21 | 16 22 | 1 18 | 20 45 | 0 35 | 2 47 | 1 8 | 10 36 | 1 58 | 23 34 | 0 18 | 22 17 | 1 11 | 13 38 | 8 58 | 16 10 | 16 11 | 27 11 | 16 44 | 2 49 |
| W10 | 14 26 | 4n 7 | 3 48 | 21 6 | 1 27 | 15 59 | 1 19 | 20 52 | 0 35 | 2 42 | 1 8 | 10 37 | 1 59 | 23 33 | 0 18 | 22 17 | 1 11 | 13 38 | 8 57 | 16 11 | 16 12 | 27 10 | 16 44 | 2 50 |
| T 11 | 14 6 | 9 59 | 4 32 | 20 50 | 1 32 | 15 36 | 1 19 | 20 58 | 0 34 | 2 36 | 1 8 | 10 39 | 1 59 | 23 33 | 0 18 | 22 17 | 1 11 | 13 39 | 8 57 | 16 11 | 16 13 | 27 9 | 16 44 | 2 50 |
| F 12 | 13 47 | 15 31 | 5 2 | 20 33 | 1 37 | 15 12 | 1 20 | 21 5 | 0 33 | 2 31 | 1 8 | 10 41 | 1 59 | 23 33 | 0 18 | 22 17 | 1 11 | 13 39 | 8 57 | 16 11 | 16 14 | 27 9 | 16 45 | 2 51 |
| S 13 | 13 27 | 20 23 | 5 16 | 20 14 | 1 41 | 14 48 | 1 21 | 21 12 | 0 32 | 2 25 | 1 8 | 10 43 | 1 59 | 23 33 | 0 18 | 22 17 | 1 11 | 13 39 | 8 57 | 16 11 | 16 15 | 27 8 | 16 45 | 2 51 |
| S 14 | 13 6 | 24 15 | 5 12 | 19 54 | 1 46 | 14 24 | 1 22 | 21 18 | 0 32 | 2 20 | 1 8 | 10 45 | 1 59 | 23 33 | 0 18 | 22 17 | 1 11 | 13 39 | 8 57 | 16 11 | 16 16 | 27 7 | 16 45 | 2 52 |
| M15 | 12 46 | 26 43 | 4 49 | 19 33 | 1 49 | 13 59 | 1 23 | 21 24 | 0 31 | 2 14 | 1 8 | 10 47 | 1 59 | 23 33 | 0 18 | 22 17 | 1 11 | 13 39 | 8 56 | 16 11 | 16 17 | 27 7 | 16 45 | 2 52 |
| T 16 | 12 25 | 27 29 | 4 9 | 19 10 | 1 53 | 13 33 | 1 23 | 21 30 | 0 30 | 2 9 | 1 8 | 10 48 | 1 59 | 23 33 | 0 18 | 22 17 | 1 11 | 13 40 | 8 56 | 16 11 | 16 17 | 27 6 | 16 45 | 2 53 |
| W17 | 12 4 | 26 24 | 3 11 | 18 46 | 1 56 | 13 8 | 1 24 | 21 36 | 0 29 | 2 4 | 1 8 | 10 50 | 1 59 | 23 32 | 0 18 | 22 17 | 1 11 | 13 40 | 8 56 | 16 11 | 16 18 | 27 5 | 16 45 | 2 54 |
| T 18 | 11 43 | 23 30 | 2 2 | 18 21 | 1 59 | 12 42 | 1 24 | 21 42 | 0 28 | 1 58 | 1 8 | 10 52 | 1 59 | 23 32 | 0 18 | 22 17 | 1 11 | 13 40 | 8 56 | 16 11 | 16 19 | 27 5 | 16 44 | 2 54 |
| F 19 | 11 22 | 19 4 | 0 44 | 17 54 | 2 2 | 12 16 | 1 25 | 21 48 | 0 28 | 1 52 | 1 7 | 10 54 | 2 0 | 23 32 | 0 18 | 22 17 | 1 11 | 13 40 | 8 55 | 16 10 | 16 20 | 27 4 | 16 44 | 2 55 |
| S 20 | 11 1 | 13 32 | 0s36 | 17 25 | 2 4 | 11 49 | 1 25 | 21 54 | 0 27 | 1 47 | 1 7 | 10 56 | 2 0 | 23 32 | 0 18 | 22 17 | 1 11 | 13 41 | 8 55 | 16 10 | 16 21 | 27 3 | 16 44 | 2 55 |
| S 21 | 10 39 | 7 21 | 1 53 | 16 56 | 2 5 | 11 22 | 1 26 | 21 59 | 0 26 | 1 41 | 1 7 | 10 58 | 2 0 | 23 32 | 0 18 | 22 17 | 1 11 | 13 41 | 8 55 | 16 11 | 16 22 | 27 3 | 16 44 | 2 56 |
| M22 | 10 17 | 0 55 | 3 2 | 16 25 | 2 7 | 10 55 | 1 26 | 22 4 | 0 25 | 1 36 | 1 7 | 11 0 | 2 0 | 23 32 | 0 18 | 22 17 | 1 11 | 13 41 | 8 55 | 16 11 | 16 23 | 27 2 | 16 44 | 2 56 |
| T 23 | 9 56 | 5s23 | 3 58 | 15 52 | 2 8 | 10 27 | 1 26 | 22 9 | 0 24 | 1 30 | 1 7 | 11 2 | 2 0 | 23 32 | 0 18 | 22 17 | 1 11 | 13 41 | 8 54 | 16 12 | 16 24 | 27 1 | 16 44 | 2 57 |
| W24 | 9 33 | 11 17 | 4 39 | 15 18 | 2 8 | 9 59 | 1 26 | 22 14 | 0 23 | 1 25 | 1 7 | 11 3 | 2 0 | 23 32 | 0 18 | 22 17 | 1 11 | 13 41 | 8 54 | 16 13 | 16 25 | 27 0 | 16 44 | 2 58 |
| T 25 | 9 11 | 16 30 | 5 5 | 14 43 | 2 8 | 9 31 | 1 26 | 22 19 | 0 22 | 1 19 | 1 7 | 11 5 | 2 0 | 23 31 | 0 18 | 22 17 | 1 11 | 13 42 | 8 54 | 16 14 | 16 26 | 27 0 | 16 43 | 2 58 |
| F 26 | 8 49 | 20 52 | 5 15 | 14 6 | 2 8 | 9 3 | 1 26 | 22 24 | 0 21 | 1 13 | 1 7 | 11 7 | 2 0 | 23 31 | 0 18 | 22 17 | 1 12 | 13 42 | 8 54 | 16 14 | 16 27 | 26 59 | 16 43 | 2 59 |
| S 27 | 8 27 | 24 14 | 5 10 | 13 28 | 2 7 | 8 34 | 1 26 | 22 28 | 0 20 | 1 8 | 1 7 | 11 9 | 2 0 | 23 31 | 0 18 | 22 17 | 1 12 | 13 42 | 8 53 | 16 15 | 16 28 | 26 58 | 16 43 | 2 59 |
| S 28 | 8s 4 | 26s26 | 4s52 | 12s48 | 2s 6 | 8s 5 | 1s26 | 22s33 | 0n19 | 1s 2 | 1s 7 | 11n11 | 2n 0 | 23s31 | 0s18 | 22s17 | 1n12 | 13n42 | 8s53 | 16s15 | 16s29 | 26s57 | 16s42 | 3n 0 |

Julian Day Number = 2325567.5, Delta T = 39.77 sec
Ecliptic obliquity = 23°29'09, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'34, Lahiri = 19°02'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## MARCH 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 34 42 | 10♓23'19 | 19♐39 | 3♓37 | 14♓ 4 | 17♐47 | 0♈12 | 5°R57 | 8♑30 | 27♐50 | 14♊ 4 | 15♒24 | 14♒34 | 2♑ 8 | 27♏28 | M 1 |
| T 2 | 10 38 39 | 11°23'22 | 1♑29 | 5°26 | 15°19 | 18°22 | 0°27 | 5♍52 | 8°32 | 27°51 | 14° 5 | 15°25 | 14°31 | 2°15 | 27°29 | T 2 |
| W 3 | 10 42 35 | 12°23'24 | 13°19 | 7°17 | 16°33 | 18°57 | 0°41 | 5°47 | 8°34 | 27°52 | 14° 5 | 15°27 | 14°28 | 2°21 | 27°29 | W 3 |
| T 4 | 10 46 32 | 13°23'23 | 25°14 | 9° 8 | 17°48 | 19°33 | 0°55 | 5°43 | 8°36 | 27°53 | 14° 5 | 15°29 | 14°25 | 2°28 | 27°30 | T 4 |
| F 5 | 10 50 28 | 14°23'21 | 7♒18 | 11° 1 | 19° 3 | 20° 8 | 1° 9 | 5°38 | 8°38 | 27°54 | 14° 5 | 15°30 | 14°22 | 2°35 | 27°31 | F 5 |
| S 6 | 10 54 25 | 15°23'18 | 19°34 | 12°55 | 20°18 | 20°43 | 1°23 | 5°33 | 8°40 | 27°55 | 14° 5 | 15°R31 | 14°18 | 2°41 | 27°31 | S 6 |
| S 7 | 10 58 22 | 16°23'12 | 2♓ 5 | 14°49 | 21°33 | 21°17 | 1°38 | 5°28 | 8°42 | 27°56 | 14° 5 | 15°29 | 14°15 | 2°48 | 27°31 | S 7 |
| M 8 | 11 2 18 | 17°23'04 | 14°53 | 16°45 | 22°48 | 21°52 | 1°52 | 5°24 | 8°44 | 27°56 | 14° 5 | 15°26 | 14°12 | 2°55 | 27°32 | M 8 |
| T 9 | 11 6 15 | 18°22'55 | 27°56 | 18°42 | 24° 2 | 22°27 | 2° 6 | 5°19 | 8°46 | 27°57 | 14° 6 | 15°22 | 14° 9 | 3° 1 | 27°32 | T 9 |
| W10 | 11 10 11 | 19°22'43 | 11♈16 | 20°39 | 25°17 | 23° 2 | 2°21 | 5°15 | 8°47 | 27°58 | 14° 6 | 15°17 | 14° 6 | 3° 8 | 27°R32 | W10 |
| T 11 | 11 14 8 | 20°22'29 | 24°49 | 22°38 | 26°32 | 23°36 | 2°35 | 5°10 | 8°49 | 27°59 | 14° 6 | 15°11 | 14° 3 | 3°15 | 27°32 | T 11 |
| F 12 | 11 18 4 | 21°22'14 | 8♉34 | 24°37 | 27°46 | 24°11 | 2°49 | 5° 5 | 8°51 | 27°59 | 14° 6 | 15° 5 | 13°59 | 3°21 | 27°31 | F 12 |
| S 13 | 11 22 1 | 22°21'56 | 22°29 | 26°36 | 29° 1 | 24°45 | 3° 4 | 5° 1 | 8°52 | 28° 0 | 14° 7 | 15° 1 | 13°56 | 3°28 | 27°31 | S 13 |
| S 14 | 11 25 57 | 23°21'35 | 6♊30 | 28°36 | 0♈16 | 25°19 | 3°18 | 4°56 | 8°54 | 28° 0 | 14° 7 | 14°58 | 13°53 | 3°35 | 27°31 | S 14 |
| M15 | 11 29 54 | 24°21'13 | 20°36 | 0♈37 | 1°30 | 25°54 | 3°33 | 4°52 | 8°55 | 28° 1 | 14° 7 | 14°D57 | 13°50 | 3°41 | 27°30 | M15 |
| T 16 | 11 33 51 | 25°20'48 | 4♋45 | 2°37 | 2°45 | 26°28 | 3°47 | 4°48 | 8°57 | 28° 1 | 14° 8 | 14°57 | 13°47 | 3°48 | 27°30 | T 16 |
| W17 | 11 37 47 | 26°20'21 | 18°56 | 4°37 | 4° 0 | 27° 2 | 4° 2 | 4°43 | 8°58 | 28° 2 | 14° 8 | 14°58 | 13°44 | 3°55 | 27°29 | W17 |
| T 18 | 11 41 44 | 27°19'51 | 3♌ 7 | 6°36 | 5°14 | 27°36 | 4°16 | 4°39 | 9° 0 | 28° 2 | 14° 9 | 14°59 | 13°40 | 4° 1 | 27°28 | T 18 |
| F 19 | 11 45 40 | 28°19'20 | 17°15 | 8°35 | 6°29 | 28°10 | 4°31 | 4°35 | 9° 1 | 28° 3 | 14° 9 | 15°R 0 | 13°37 | 4° 8 | 27°27 | F 19 |
| S 20 | 11 49 37 | 29°18'45 | 1♍19 | 10°32 | 7°43 | 28°43 | 4°45 | 4°31 | 9° 2 | 28° 3 | 14°10 | 14°59 | 13°34 | 4°15 | 27°26 | S 20 |
| S 21 | 11 53 33 | 0♈18'09 | 15°14 | 12°28 | 8°58 | 29°17 | 5° 0 | 4°27 | 9° 4 | 28° 3 | 14°10 | 14°55 | 13°31 | 4°22 | 27°25 | S 21 |
| M22 | 11 57 30 | 1°17'30 | 28°59 | 14°22 | 10°12 | 29°51 | 5°14 | 4°23 | 9° 5 | 28° 4 | 14°10 | 14°50 | 13°28 | 4°28 | 27°24 | M22 |
| T 23 | 12 1 26 | 2°16'50 | 12♎28 | 16°14 | 11°27 | 0♑24 | 5°29 | 4°19 | 9° 6 | 28° 4 | 14°11 | 14°43 | 13°24 | 4°35 | 27°22 | T 23 |
| W24 | 12 5 23 | 3°16'07 | 25°40 | 18° 3 | 12°41 | 0°57 | 5°43 | 4°15 | 9° 7 | 28° 4 | 14°12 | 14°34 | 13°21 | 4°42 | 27°21 | W24 |
| T 25 | 12 9 19 | 4°15'22 | 8♏34 | 19°48 | 13°55 | 1°31 | 5°58 | 4°11 | 9° 8 | 28° 4 | 14°12 | 14°25 | 13°18 | 4°48 | 27°19 | T 25 |
| F 26 | 12 13 16 | 5°14'36 | 21°10 | 21°30 | 15°10 | 2° 4 | 6°12 | 4° 7 | 9° 9 | 28° 5 | 14°13 | 14°17 | 13°15 | 4°55 | 27°18 | F 26 |
| S 27 | 12 17 13 | 6°13'48 | 3♐29 | 23° 8 | 16°24 | 2°37 | 6°27 | 4° 3 | 9°10 | 28° 5 | 14°13 | 14°11 | 13°12 | 5° 2 | 27°16 | S 27 |
| S 28 | 12 21 9 | 7°12'57 | 15°34 | 24°42 | 17°38 | 3°10 | 6°41 | 4° 0 | 9°11 | 28° 5 | 14°14 | 14° 6 | 13° 9 | 5° 8 | 27°14 | S 28 |
| M29 | 12 25 6 | 8°12'06 | 27°29 | 26°11 | 18°53 | 3°43 | 6°56 | 3°56 | 9°11 | 28° 5 | 14°15 | 14° 3 | 13° 5 | 5°15 | 27°12 | M29 |
| T 30 | 12 29 2 | 9°11'12 | 9♑20 | 27°35 | 20° 7 | 4°15 | 7°10 | 3°53 | 9°12 | 28° 5 | 14°15 | 14°D 2 | 13° 2 | 5°22 | 27°10 | T 30 |
| W31 | 12 32 59 | 10♈10'17 | 21♑10 | 28♈54 | 21♈21 | 4♑48 | 7♈25 | 3♍49 | 9♑13 | 28°R 5 | 14♊16 | 14♒ 3 | 12♒59 | 5♑28 | 27♏ 8 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 7s41 | 27s25 | 4s21 | 12s 8 | 2s 4 | 7s36 | 1s26 | 22s37 | 0n18 | 0s56 | 1s 7 | 11n13 | 2n 0 | 23s31 | 0s18 | 22s17 | 1n12 | 13n43 | 8s53 | 16s15 | 16s30 | 26s57 | 16s42 | 3n 1 |
| T 2 | 7 18 | 27 8 | 3 39 | 11 25 | 2 2 | 7 7 | 1 26 | 22 41 | 0 17 | 0 51 | 1 7 | 11 15 | 2 0 | 23 31 | 0 18 | 22 17 | 1 12 | 13 43 | 8 53 | 16 15 | 16 30 | 26 56 | 16 42 | 3 1 |
| W 3 | 6 56 | 25 36 | 2 48 | 10 42 | 1 59 | 6 38 | 1 25 | 22 45 | 0 16 | 0 45 | 1 7 | 11 16 | 2 0 | 23 31 | 0 18 | 22 16 | 1 12 | 13 43 | 8 53 | 16 14 | 16 31 | 26 55 | 16 41 | 3 2 |
| T 4 | 6 32 | 22 55 | 1 49 | 9 57 | 1 56 | 6 8 | 1 25 | 22 49 | 0 15 | 0 39 | 1 7 | 11 18 | 2 1 | 23 31 | 0 18 | 22 16 | 1 12 | 13 43 | 8 52 | 16 13 | 16 32 | 26 54 | 16 41 | 3 2 |
| F 5 | 6 9 | 19 12 | 0 45 | 9 10 | 1 52 | 5 38 | 1 25 | 22 53 | 0 14 | 0 34 | 1 7 | 11 20 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 44 | 8 52 | 16 13 | 16 33 | 26 54 | 16 40 | 3 3 |
| S 6 | 5 46 | 14 38 | 0n22 | 8 23 | 1 48 | 5 8 | 1 24 | 22 56 | 0 13 | 0 28 | 1 7 | 11 22 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 44 | 8 52 | 16 13 | 16 34 | 26 53 | 16 40 | 3 3 |
| S 7 | 5 23 | 9 21 | 1 30 | 7 34 | 1 43 | 4 38 | 1 23 | 23 0 | 0 12 | 0 22 | 1 6 | 11 23 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 44 | 8 52 | 16 13 | 16 35 | 26 52 | 16 39 | 3 4 |
| M 8 | 5 0 | 3 36 | 2 34 | 6 44 | 1 37 | 4 8 | 1 23 | 23 3 | 0 11 | 0 16 | 1 6 | 11 25 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 44 | 8 51 | 16 14 | 16 36 | 26 51 | 16 39 | 3 5 |
| T 9 | 4 36 | 2n24 | 3 31 | 5 53 | 1 31 | 3 38 | 1 22 | 23 6 | 0 10 | 0 11 | 1 6 | 11 27 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 45 | 8 51 | 16 16 | 16 37 | 26 50 | 16 38 | 3 5 |
| W10 | 4 13 | 8 25 | 4 18 | 5 1 | 1 25 | 3 7 | 1 21 | 23 9 | 0 9 | 0 5 | 1 6 | 11 29 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 45 | 8 51 | 16 17 | 16 38 | 26 50 | 16 38 | 3 6 |
| T 11 | 3 49 | 14 9 | 4 52 | 4 7 | 1 18 | 2 37 | 1 21 | 23 12 | 0 8 | 0n 1 | 1 6 | 11 30 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 45 | 8 51 | 16 19 | 16 39 | 26 49 | 16 37 | 3 6 |
| F 12 | 3 26 | 19 15 | 5 9 | 3 13 | 1 10 | 2 6 | 1 20 | 23 15 | 0 6 | 0 7 | 1 6 | 11 32 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 45 | 8 50 | 16 20 | 16 40 | 26 48 | 16 37 | 3 7 |
| S 13 | 3 2 | 23 23 | 5 8 | 2 18 | 1 2 | 1 36 | 1 19 | 23 18 | 0 5 | 0 12 | 1 6 | 11 34 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 46 | 8 50 | 16 22 | 16 41 | 26 47 | 16 36 | 3 8 |
| S 14 | 2 38 | 26 11 | 4 49 | 1 22 | 0 53 | 1 5 | 1 18 | 23 20 | 0 4 | 0 18 | 1 6 | 11 35 | 2 1 | 23 30 | 0 18 | 22 16 | 1 12 | 13 46 | 8 50 | 16 23 | 16 42 | 26 46 | 16 35 | 3 8 |
| M15 | 2 15 | 27 21 | 4 13 | 0 26 | 0 44 | 0 34 | 1 17 | 23 23 | 0 3 | 0 24 | 1 6 | 11 37 | 2 1 | 23 30 | 0 19 | 22 16 | 1 12 | 13 46 | 8 50 | 16 23 | 16 42 | 26 45 | 16 35 | 3 9 |
| T 16 | 1 51 | 26 45 | 3 21 | 0n31 | 0 34 | 0 4 | 1 16 | 23 25 | 0 2 | 0 30 | 1 6 | 11 39 | 2 1 | 23 30 | 0 19 | 22 16 | 1 12 | 13 47 | 8 49 | 16 23 | 16 43 | 26 44 | 16 34 | 3 9 |
| W17 | 1 27 | 24 24 | 2 17 | 1 28 | 0 24 | 0n27 | 1 14 | 23 27 | 0 0 | 0 36 | 1 6 | 11 40 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 47 | 8 49 | 16 23 | 16 44 | 26 44 | 16 33 | 3 10 |
| T 18 | 1 4 | 20 32 | 1 4 | 2 25 | 0 13 | 0 58 | 1 13 | 23 29 | 0s 1 | 0 41 | 1 6 | 11 42 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 47 | 8 49 | 16 22 | 16 45 | 26 43 | 16 32 | 3 11 |
| F 19 | 0 40 | 15 30 | 0s12 | 3 22 | 0 2 | 1 29 | 1 12 | 23 31 | 0 2 | 0 47 | 1 6 | 11 43 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 47 | 8 49 | 16 22 | 16 46 | 26 42 | 16 32 | 3 11 |
| S 20 | 0 16 | 9 40 | 1 27 | 4 19 | 0n 9 | 1 59 | 1 11 | 23 32 | 0 4 | 0 53 | 1 6 | 11 45 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 48 | 8 48 | 16 22 | 16 47 | 26 41 | 16 31 | 3 12 |
| S 21 | 0n 7 | 3 26 | 2 36 | 5 15 | 0 21 | 2 30 | 1 9 | 23 34 | 0 5 | 0 59 | 1 6 | 11 46 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 48 | 8 48 | 16 23 | 16 48 | 26 40 | 16 30 | 3 12 |
| M22 | 0 31 | 2s52 | 3 35 | 6 11 | 0 33 | 3 1 | 1 8 | 23 36 | 0 6 | 1 4 | 1 6 | 11 48 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 48 | 8 48 | 16 25 | 16 49 | 26 39 | 16 29 | 3 13 |
| T 23 | 0 55 | 8 55 | 4 20 | 7 5 | 0 45 | 3 31 | 1 6 | 23 37 | 0 8 | 1 10 | 1 6 | 11 49 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 48 | 8 48 | 16 27 | 16 50 | 26 38 | 16 28 | 3 13 |
| W24 | 1 18 | 14 27 | 4 51 | 7 58 | 0 57 | 4 2 | 1 5 | 23 38 | 0 9 | 1 16 | 1 6 | 11 50 | 2 1 | 23 29 | 0 19 | 22 16 | 1 12 | 13 49 | 8 48 | 16 30 | 16 51 | 26 37 | 16 27 | 3 14 |
| T 25 | 1 42 | 19 12 | 5 5 | 8 49 | 1 9 | 4 32 | 1 3 | 23 39 | 0 11 | 1 22 | 1 6 | 11 52 | 2 0 | 23 29 | 0 19 | 22 16 | 1 12 | 13 49 | 8 47 | 16 32 | 16 52 | 26 36 | 16 26 | 3 15 |
| F 26 | 2 5 | 22 59 | 5 5 | 9 39 | 1 21 | 5 2 | 1 1 | 23 40 | 0 12 | 1 27 | 1 6 | 11 53 | 2 0 | 23 29 | 0 19 | 22 16 | 1 12 | 13 49 | 8 47 | 16 35 | 16 52 | 26 35 | 16 25 | 3 15 |
| S 27 | 2 29 | 25 38 | 4 50 | 10 26 | 1 32 | 5 33 | 1 0 | 23 41 | 0 14 | 1 33 | 1 6 | 11 54 | 2 0 | 23 29 | 0 19 | 22 16 | 1 12 | 13 50 | 8 47 | 16 36 | 16 53 | 26 34 | 16 25 | 3 16 |
| S 28 | 2 52 | 27 3 | 4 22 | 11 12 | 1 44 | 6 3 | 0 58 | 23 42 | 0 15 | 1 39 | 1 6 | 11 56 | 2 0 | 23 29 | 0 19 | 22 16 | 1 12 | 13 50 | 8 47 | 16 38 | 16 54 | 26 33 | 16 24 | 3 16 |
| M29 | 3 16 | 27 11 | 3 43 | 11 55 | 1 55 | 6 33 | 0 56 | 23 43 | 0 17 | 1 45 | 1 6 | 11 57 | 2 0 | 23 29 | 0 19 | 22 16 | 1 12 | 13 50 | 8 46 | 16 39 | 16 55 | 26 32 | 16 23 | 3 17 |
| T 30 | 3 39 | 26 4 | 2 55 | 12 35 | 2 5 | 7 2 | 0 54 | 23 43 | 0 18 | 1 50 | 1 6 | 11 58 | 2 0 | 23 29 | 0 19 | 22 16 | 1 13 | 13 50 | 8 46 | 16 39 | 16 56 | 26 31 | 16 22 | 3 17 |
| W31 | 4n 2 | 23s47 | 2s 0 | 13n13 | 2n15 | 7n32 | 0s52 | 23s44 | 0s20 | 1n56 | 1s 6 | 11n59 | 2n 0 | 23s29 | 0s19 | 22s16 | 1n13 | 13n51 | 8s46 | 16s39 | 16s57 | 26s31 | 16s21 | 3n18 |

Julian Day Number = 2325595.5, Delta T = 39.72 sec
Ecliptic obliquity = 23°29'10, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'37, Lahiri = 19°02'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## APRIL 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 36 55 | 11♈ 9'19 | 3♒ 6 | 0♉ 7 | 22♈36 | 5♑20 | 7♈39 | 3°R46 | 9♑14 | 28°R 5 | 14♊17 | 14♒ 4 | 12♒56 | 5♑35 | 27°R 6 | T 1 |
| F 2 | 12 40 52 | 12° 8'20 | 15°12 | 1°15 | 23°50 | 5°53 | 7°54 | 3♍43 | 9°14 | 28♐ 5 | 14°17 | 14°R 4 | 12°53 | 5°42 | 27♏ 3 | F 2 |
| S 3 | 12 44 48 | 13° 7'19 | 27°33 | 2°17 | 25° 4 | 6°25 | 8° 8 | 3°40 | 9°15 | 28° 5 | 14°18 | 14° 3 | 12°50 | 5°48 | 27° 1 | S 3 |
| S 4 | 12 48 45 | 14° 6'16 | 10♓13 | 3°12 | 26°18 | 6°57 | 8°23 | 3°37 | 9°15 | 28° 5 | 14°19 | 14° 0 | 12°46 | 5°55 | 26°59 | S 4 |
| M 5 | 12 52 42 | 15° 5'12 | 23°15 | 4° 1 | 27°32 | 7°29 | 8°37 | 3°34 | 9°16 | 28° 4 | 14°20 | 13°55 | 12°43 | 6° 2 | 26°56 | M 5 |
| T 6 | 12 56 38 | 16° 4'05 | 6♈38 | 4°44 | 28°46 | 8° 0 | 8°52 | 3°31 | 9°16 | 28° 4 | 14°20 | 13°47 | 12°40 | 6° 8 | 26°53 | T 6 |
| W 7 | 13 0 35 | 17° 2'56 | 20°21 | 5°21 | 0♉ 0 | 8°32 | 9° 6 | 3°28 | 9°17 | 28° 4 | 14°21 | 13°37 | 12°37 | 6°15 | 26°51 | W 7 |
| T 8 | 13 4 31 | 18° 1'46 | 4♉22 | 5°51 | 1°15 | 9° 3 | 9°20 | 3°25 | 9°17 | 28° 4 | 14°22 | 13°27 | 12°34 | 6°22 | 26°48 | T 8 |
| F 9 | 13 8 28 | 19° 0'33 | 18°35 | 6°15 | 2°29 | 9°35 | 9°35 | 3°22 | 9°17 | 28° 3 | 14°23 | 13°16 | 12°30 | 6°28 | 26°45 | F 9 |
| S 10 | 13 12 24 | 19°59'19 | 2♊54 | 6°32 | 3°43 | 10° 6 | 9°49 | 3°20 | 9°17 | 28° 3 | 14°24 | 13° 8 | 12°27 | 6°35 | 26°42 | S 10 |
| S 11 | 13 16 21 | 20°58'02 | 17°15 | 6°43 | 4°57 | 10°37 | 10° 4 | 3°17 | 9°17 | 28° 3 | 14°25 | 13° 1 | 12°24 | 6°42 | 26°39 | S 11 |
| M12 | 13 20 17 | 21°56'43 | 1♋34 | 6°R47 | 6°11 | 11° 7 | 10°18 | 3°15 | 9°18 | 28° 2 | 14°26 | 12°57 | 12°21 | 6°48 | 26°36 | M12 |
| T 13 | 13 24 14 | 22°55'21 | 15°46 | 6°46 | 7°25 | 11°38 | 10°32 | 3°13 | 9°R18 | 28° 2 | 14°27 | 12°56 | 12°18 | 6°55 | 26°33 | T 13 |
| W14 | 13 28 11 | 23°53'58 | 29°51 | 6°39 | 8°38 | 12° 8 | 10°47 | 3°11 | 9°18 | 28° 2 | 14°27 | 12°D56 | 12°15 | 7° 2 | 26°29 | W14 |
| T 15 | 13 32 7 | 24°52'32 | 13♌48 | 6°26 | 9°52 | 12°39 | 11° 1 | 3° 8 | 9°18 | 28° 1 | 14°28 | 12°R56 | 12°11 | 7° 8 | 26°26 | T 15 |
| F 16 | 13 36 4 | 25°51'04 | 27°36 | 6° 7 | 11° 6 | 13° 9 | 11°15 | 3° 6 | 9°17 | 28° 1 | 14°29 | 12°55 | 12° 8 | 7°15 | 26°22 | F 16 |
| S 17 | 13 40 0 | 26°49'33 | 11♍15 | 5°44 | 12°20 | 13°38 | 11°30 | 3° 5 | 9°17 | 28° 0 | 14°30 | 12°52 | 12° 5 | 7°22 | 26°19 | S 17 |
| S 18 | 13 43 57 | 27°48'01 | 24°45 | 5°17 | 13°34 | 14° 8 | 11°44 | 3° 3 | 9°17 | 27°59 | 14°31 | 12°47 | 12° 2 | 7°28 | 26°15 | S 18 |
| M19 | 13 47 53 | 28°46'26 | 8♎ 5 | 4°46 | 14°48 | 14°38 | 11°58 | 3° 1 | 9°17 | 27°59 | 14°32 | 12°39 | 11°59 | 7°35 | 26°12 | M19 |
| T 20 | 13 51 50 | 29°44'49 | 21°13 | 4°12 | 16° 1 | 15° 7 | 12°12 | 3° 0 | 9°16 | 27°58 | 14°33 | 12°28 | 11°55 | 7°42 | 26° 8 | T 20 |
| W21 | 13 55 46 | 0♉43'11 | 4♏ 8 | 3°35 | 17°15 | 15°36 | 12°26 | 2°58 | 9°16 | 27°58 | 14°34 | 12°15 | 11°52 | 7°48 | 26° 4 | W21 |
| T 22 | 13 59 43 | 1°41'31 | 16°49 | 2°57 | 18°29 | 16° 5 | 12°40 | 2°57 | 9°16 | 27°57 | 14°36 | 12° 2 | 11°49 | 7°55 | 26° 1 | T 22 |
| F 23 | 14 3 40 | 2°39'49 | 29°16 | 2°17 | 19°42 | 16°33 | 12°54 | 2°55 | 9°15 | 27°56 | 14°37 | 11°50 | 11°46 | 8° 2 | 25°57 | F 23 |
| S 24 | 14 7 36 | 3°38'05 | 11♐29 | 1°37 | 20°56 | 17° 2 | 13° 8 | 2°54 | 9°15 | 27°55 | 14°38 | 11°39 | 11°43 | 8° 8 | 25°53 | S 24 |
| S 25 | 14 11 33 | 4°36'20 | 23°32 | 0°58 | 22°10 | 17°30 | 13°22 | 2°53 | 9°14 | 27°55 | 14°39 | 11°31 | 11°40 | 8°15 | 25°49 | S 25 |
| M26 | 14 15 29 | 5°34'33 | 5♑25 | 0°20 | 23°23 | 17°58 | 13°36 | 2°52 | 9°14 | 27°54 | 14°40 | 11°26 | 11°36 | 8°22 | 25°45 | M26 |
| T 27 | 14 19 26 | 6°32'45 | 17°15 | 29♈43 | 24°37 | 18°26 | 13°50 | 2°51 | 9°13 | 27°53 | 14°41 | 11°23 | 11°33 | 8°28 | 25°41 | T 27 |
| W28 | 14 23 22 | 7°30'55 | 29° 4 | 29° 9 | 25°50 | 18°53 | 14° 4 | 2°50 | 9°12 | 27°52 | 14°42 | 11°22 | 11°30 | 8°35 | 25°37 | W28 |
| T 29 | 14 27 19 | 8°29'03 | 10♒59 | 28°37 | 27° 4 | 19°20 | 14°18 | 2°50 | 9°12 | 27°51 | 14°43 | 11°21 | 11°27 | 8°42 | 25°33 | T 29 |
| F 30 | 14 31 15 | 9♉27'10 | 23♒ 5 | 28♈ 9 | 28♉17 | 19♑47 | 14♈32 | 2♍49 | 9♑11 | 27♐50 | 14♊44 | 11♒21 | 11♒24 | 8♑48 | 25♏29 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n25 | 20s27 | 0s59 | 13n47 | 2n24 | 8n 2 | 0s50 | 23s44 | 0s21 | 2n 2 | 1s 6 | 12n 1 | 2n 0 | 23s29 | 0s19 | 22s16 | 1n13 | 13n51 | 8s46 | 16s38 | 16s58 | 26s30 | 16s20 | 3n19 |
| F 2 | 4 48 | 16 13 | 0n 6 | 14 19 | 2 33 | 8 31 | 0 48 | 23 44 | 0 23 | 2 8 | 1 6 | 12 2 | 2 0 | 23 29 | 0 19 | 22 16 | 1 13 | 13 51 | 8 46 | 16 38 | 16 59 | 26 29 | 16 18 | 3 19 |
| S 3 | 5 11 | 11 13 | 1 12 | 14 48 | 2 41 | 9 0 | 0 46 | 23 44 | 0 25 | 2 13 | 1 6 | 12 3 | 2 0 | 23 29 | 0 19 | 22 16 | 1 13 | 13 52 | 8 45 | 16 39 | 17 0 | 26 28 | 16 17 | 3 20 |
| S 4 | 5 34 | 5 40 | 2 15 | 15 13 | 2 47 | 9 29 | 0 44 | 23 44 | 0 26 | 2 19 | 1 6 | 12 4 | 2 0 | 23 29 | 0 19 | 22 16 | 1 13 | 13 52 | 8 45 | 16 39 | 17 1 | 26 27 | 16 16 | 3 20 |
| M 5 | 5 57 | 0n16 | 3 13 | 15 36 | 2 53 | 9 58 | 0 42 | 23 44 | 0 28 | 2 25 | 1 6 | 12 5 | 2 0 | 23 29 | 0 19 | 22 16 | 1 13 | 13 52 | 8 45 | 16 41 | 17 2 | 26 26 | 16 15 | 3 21 |
| T 6 | 6 20 | 6 21 | 4 2 | 15 55 | 2 58 | 10 26 | 0 40 | 23 44 | 0 30 | 2 30 | 1 6 | 12 6 | 2 0 | 23 29 | 0 19 | 22 16 | 1 13 | 13 53 | 8 45 | 16 43 | 17 2 | 26 24 | 16 14 | 3 21 |
| W 7 | 6 43 | 12 16 | 4 39 | 16 11 | 3 1 | 10 54 | 0 38 | 23 44 | 0 32 | 2 36 | 1 6 | 12 7 | 2 0 | 23 29 | 0 19 | 22 16 | 1 13 | 13 53 | 8 45 | 16 46 | 17 3 | 26 23 | 16 13 | 3 22 |
| T 8 | 7 5 | 17 41 | 4 59 | 16 23 | 3 4 | 11 22 | 0 36 | 23 44 | 0 33 | 2 42 | 1 6 | 12 8 | 1 59 | 23 29 | 0 19 | 22 16 | 1 13 | 13 53 | 8 44 | 16 49 | 17 4 | 26 22 | 16 12 | 3 22 |
| F 9 | 7 28 | 22 13 | 5 2 | 16 32 | 3 5 | 11 50 | 0 34 | 23 43 | 0 35 | 2 47 | 1 6 | 12 9 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 53 | 8 44 | 16 52 | 17 5 | 26 21 | 16 11 | 3 23 |
| S 10 | 7 50 | 25 27 | 4 45 | 16 38 | 3 5 | 12 17 | 0 31 | 23 43 | 0 37 | 2 53 | 1 6 | 12 9 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 54 | 8 44 | 16 55 | 17 6 | 26 20 | 16 9 | 3 23 |
| S 11 | 8 12 | 27 2 | 4 11 | 16 40 | 3 4 | 12 44 | 0 29 | 23 42 | 0 39 | 2 59 | 1 6 | 12 10 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 54 | 8 44 | 16 56 | 17 7 | 26 19 | 16 8 | 3 24 |
| M12 | 8 34 | 26 50 | 3 21 | 16 39 | 3 1 | 13 11 | 0 27 | 23 42 | 0 41 | 3 4 | 1 6 | 12 11 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 54 | 8 44 | 16 57 | 17 8 | 26 18 | 16 7 | 3 24 |
| T 13 | 8 56 | 24 51 | 2 19 | 16 35 | 2 57 | 13 38 | 0 24 | 23 41 | 0 43 | 3 10 | 1 6 | 12 12 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 55 | 8 43 | 16 58 | 17 9 | 26 17 | 16 6 | 3 25 |
| W14 | 9 17 | 21 21 | 1 9 | 16 27 | 2 51 | 14 4 | 0 22 | 23 40 | 0 45 | 3 15 | 1 6 | 12 12 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 55 | 8 43 | 16 58 | 17 10 | 26 16 | 16 5 | 3 25 |
| T 15 | 9 39 | 16 39 | 0s 5 | 16 16 | 2 44 | 14 30 | 0 19 | 23 40 | 0 47 | 3 21 | 1 6 | 12 13 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 55 | 8 43 | 16 58 | 17 10 | 26 15 | 16 3 | 3 26 |
| F 16 | 10 0 | 11 8 | 1 17 | 16 2 | 2 36 | 14 55 | 0 17 | 23 39 | 0 49 | 3 27 | 1 6 | 12 14 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 55 | 8 43 | 16 58 | 17 11 | 26 14 | 16 2 | 3 26 |
| S 17 | 10 22 | 5 8 | 2 24 | 15 45 | 2 26 | 15 20 | 0 15 | 23 38 | 0 51 | 3 32 | 1 6 | 12 14 | 1 59 | 23 29 | 0 19 | 22 15 | 1 13 | 13 56 | 8 43 | 16 59 | 17 12 | 26 13 | 16 1 | 3 27 |
| S 18 | 10 43 | 1s 0 | 3 22 | 15 26 | 2 15 | 15 45 | 0 12 | 23 37 | 0 53 | 3 38 | 1 6 | 12 15 | 1 58 | 23 29 | 0 19 | 22 15 | 1 13 | 13 56 | 8 42 | 17 0 | 17 13 | 26 12 | 16 0 | 3 27 |
| M19 | 11 4 | 7 1 | 4 8 | 15 3 | 2 3 | 16 9 | 0 10 | 23 36 | 0 55 | 3 43 | 1 6 | 12 15 | 1 58 | 23 29 | 0 19 | 22 15 | 1 13 | 13 56 | 8 42 | 17 3 | 17 14 | 26 11 | 15 58 | 3 28 |
| T 20 | 11 24 | 12 37 | 4 40 | 14 39 | 1 49 | 16 33 | 0 7 | 23 35 | 0 57 | 3 49 | 1 7 | 12 16 | 1 58 | 23 29 | 0 19 | 22 15 | 1 13 | 13 57 | 8 42 | 17 6 | 17 15 | 26 9 | 15 57 | 3 28 |
| W21 | 11 45 | 17 35 | 4 58 | 14 13 | 1 35 | 16 57 | 0 5 | 23 33 | 0 59 | 3 54 | 1 7 | 12 16 | 1 58 | 23 29 | 0 19 | 22 15 | 1 13 | 13 57 | 8 42 | 17 9 | 17 16 | 26 8 | 15 56 | 3 29 |
| T 22 | 12 5 | 21 40 | 4 59 | 13 45 | 1 19 | 17 20 | 0 2 | 23 32 | 1 2 | 4 0 | 1 7 | 12 17 | 1 58 | 23 29 | 0 19 | 22 15 | 1 13 | 13 57 | 8 42 | 17 13 | 17 17 | 26 7 | 15 54 | 3 29 |
| F 23 | 12 25 | 24 42 | 4 47 | 13 17 | 1 3 | 17 42 | 0n 0 | 23 31 | 1 4 | 4 5 | 1 7 | 12 17 | 1 58 | 23 29 | 0 19 | 22 15 | 1 13 | 13 57 | 8 42 | 17 16 | 17 18 | 26 6 | 15 53 | 3 30 |
| S 24 | 12 45 | 26 31 | 4 21 | 12 47 | 0 47 | 18 4 | 0 3 | 23 30 | 1 6 | 4 10 | 1 7 | 12 17 | 1 58 | 23 29 | 0 20 | 22 15 | 1 13 | 13 58 | 8 41 | 17 19 | 17 18 | 26 5 | 15 52 | 3 30 |
| S 25 | 13 5 | 27 4 | 3 44 | 12 18 | 0 30 | 18 26 | 0 6 | 23 28 | 1 9 | 4 16 | 1 7 | 12 18 | 1 58 | 23 29 | 0 20 | 22 15 | 1 13 | 13 58 | 8 41 | 17 22 | 17 19 | 26 4 | 15 50 | 3 30 |
| M26 | 13 24 | 26 20 | 2 58 | 11 48 | 0 13 | 18 47 | 0 8 | 23 27 | 1 11 | 4 21 | 1 7 | 12 18 | 1 57 | 23 29 | 0 20 | 22 15 | 1 13 | 13 58 | 8 41 | 17 23 | 17 20 | 26 3 | 15 49 | 3 31 |
| T 27 | 13 44 | 24 25 | 2 4 | 11 19 | 0s 5 | 19 8 | 0 11 | 23 26 | 1 13 | 4 27 | 1 7 | 12 18 | 1 57 | 23 29 | 0 20 | 22 15 | 1 13 | 13 59 | 8 41 | 17 24 | 17 21 | 26 1 | 15 48 | 3 31 |
| W28 | 14 3 | 21 26 | 1 5 | 10 51 | 0 22 | 19 28 | 0 13 | 23 24 | 1 16 | 4 32 | 1 7 | 12 18 | 1 57 | 23 30 | 0 20 | 22 15 | 1 13 | 13 59 | 8 41 | 17 24 | 17 22 | 26 0 | 15 46 | 3 32 |
| T 29 | 14 22 | 17 32 | 0 2 | 10 24 | 0 39 | 19 48 | 0 16 | 23 23 | 1 18 | 4 37 | 1 7 | 12 18 | 1 57 | 23 30 | 0 20 | 22 15 | 1 13 | 13 59 | 8 41 | 17 24 | 17 23 | 25 59 | 15 45 | 3 32 |
| F 30 | 14n40 | 12s53 | 1n 2 | 9n59 | 0s55 | 20n 7 | 0n18 | 23s21 | 1s21 | 4n43 | 1s 7 | 12n18 | 1n57 | 23s30 | 0s20 | 22s15 | 1n13 | 13n59 | 8s40 | 17s24 | 17s24 | 25s58 | 15s44 | 3n32 |

Julian Day Number = 2325626.5, Delta T = 39.66 sec
Ecliptic obliquity = 23°29'10, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'42, Lahiri = 19°02'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## MAY 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 35 12 | 10♉25'16 | 5♓27 | 27°R45 | 29♉31 | 20♑14 | 14♈46 | 2°R49 | 9°R10 | 27°R49 | 14♊46 | 11°R20 | 11♒21 | 8♑55 | 25°R24 | S 1 |
| S 2 | 14 39 9 | 11°23'20 | 18°10 | 27♈24 | 0♊44 | 20°40 | 14°59 | 2♍48 | 9♑ 9 | 27♐48 | 14°47 | 11♒16 | 11°17 | 9° 2 | 25♏20 | S 2 |
| M 3 | 14 43 5 | 12°21'23 | 1♈18 | 27° 8 | 1°57 | 21° 6 | 15°13 | 2°48 | 9° 8 | 27°47 | 14°48 | 11°10 | 11°14 | 9° 8 | 25°16 | M 3 |
| T 4 | 14 47 2 | 13°19'24 | 14°52 | 26°57 | 3°11 | 21°32 | 15°27 | 2°48 | 9° 7 | 27°46 | 14°49 | 11° 2 | 11°11 | 9°15 | 25°12 | T 4 |
| W 5 | 14 50 58 | 14°17'24 | 28°51 | 26°50 | 4°24 | 21°57 | 15°40 | 2°D48 | 9° 6 | 27°45 | 14°50 | 10°51 | 11° 8 | 9°22 | 25° 7 | W 5 |
| T 6 | 14 54 55 | 15°15'23 | 13♉12 | 26°D47 | 5°37 | 22°23 | 15°54 | 2°48 | 9° 5 | 27°44 | 14°52 | 10°39 | 11° 5 | 9°28 | 25° 3 | T 6 |
| F 7 | 14 58 51 | 16°13'20 | 27°49 | 26°49 | 6°51 | 22°48 | 16° 7 | 2°48 | 9° 4 | 27°43 | 14°53 | 10°28 | 11° 1 | 9°35 | 24°59 | F 7 |
| S 8 | 15 2 48 | 17°11'15 | 12♊34 | 26°56 | 8° 4 | 23°12 | 16°21 | 2°49 | 9° 3 | 27°42 | 14°54 | 10°18 | 10°58 | 9°42 | 24°54 | S 8 |
| S 9 | 15 6 44 | 18° 9'09 | 27°20 | 27° 8 | 9°17 | 23°36 | 16°34 | 2°49 | 9° 2 | 27°41 | 14°55 | 10°11 | 10°55 | 9°48 | 24°50 | S 9 |
| M10 | 15 10 41 | 19° 7'01 | 11♋58 | 27°24 | 10°30 | 24° 0 | 16°48 | 2°49 | 9° 0 | 27°40 | 14°57 | 10° 6 | 10°52 | 9°55 | 24°45 | M10 |
| T 11 | 15 14 38 | 20° 4'51 | 26°25 | 27°44 | 11°44 | 24°24 | 17° 1 | 2°50 | 8°59 | 27°39 | 14°58 | 10° 4 | 10°49 | 10° 2 | 24°41 | T 11 |
| W12 | 15 18 34 | 21° 2'40 | 10♌36 | 28° 9 | 12°57 | 24°47 | 17°14 | 2°51 | 8°58 | 27°37 | 14°59 | 10°D 4 | 10°46 | 10° 8 | 24°37 | W12 |
| T 13 | 15 22 31 | 22° 0'27 | 24°31 | 28°38 | 14°10 | 25° 9 | 17°27 | 2°51 | 8°56 | 27°36 | 15° 1 | 10°R 4 | 10°42 | 10°15 | 24°32 | T 13 |
| F 14 | 15 26 27 | 22°58'12 | 8♍11 | 29°11 | 15°23 | 25°32 | 17°40 | 2°52 | 8°55 | 27°35 | 15° 2 | 10° 3 | 10°39 | 10°22 | 24°28 | F 14 |
| S 15 | 15 30 24 | 23°55'55 | 21°35 | 29°48 | 16°36 | 25°54 | 17°54 | 2°53 | 8°53 | 27°34 | 15° 3 | 10° 0 | 10°36 | 10°28 | 24°23 | S 15 |
| S 16 | 15 34 20 | 24°53'36 | 4♎47 | 0♉29 | 17°49 | 26°16 | 18° 6 | 2°55 | 8°52 | 27°32 | 15° 5 | 9°55 | 10°33 | 10°35 | 24°19 | S 16 |
| M17 | 15 38 17 | 25°51'17 | 17°46 | 1°14 | 19° 2 | 26°37 | 18°19 | 2°56 | 8°50 | 27°31 | 15° 6 | 9°47 | 10°30 | 10°42 | 24°14 | M17 |
| T 18 | 15 42 13 | 26°48'55 | 0♏34 | 2° 2 | 20°15 | 26°58 | 18°32 | 2°57 | 8°49 | 27°30 | 15° 7 | 9°37 | 10°27 | 10°48 | 24°10 | T 18 |
| W19 | 15 46 10 | 27°46'32 | 13°10 | 2°54 | 21°28 | 27°18 | 18°45 | 2°59 | 8°47 | 27°28 | 15° 9 | 9°25 | 10°23 | 10°55 | 24° 5 | W19 |
| T 20 | 15 50 7 | 28°44'08 | 25°35 | 3°49 | 22°40 | 27°38 | 18°58 | 3° 0 | 8°46 | 27°27 | 15°10 | 9°13 | 10°20 | 11° 2 | 24° 1 | T 20 |
| F 21 | 15 54 3 | 29°41'43 | 7♐49 | 4°47 | 23°53 | 27°58 | 19°11 | 3° 2 | 8°44 | 27°26 | 15°11 | 9° 1 | 10°17 | 11° 8 | 23°57 | F 21 |
| S 22 | 15 58 0 | 0♊39'17 | 19°54 | 5°49 | 25° 6 | 28°17 | 19°23 | 3° 3 | 8°42 | 27°24 | 15°13 | 8°51 | 10°14 | 11°15 | 23°52 | S 22 |
| S 23 | 16 1 56 | 1°36'49 | 1♑51 | 6°54 | 26°19 | 28°35 | 19°36 | 3° 5 | 8°41 | 27°23 | 15°14 | 8°43 | 10°11 | 11°22 | 23°48 | S 23 |
| M24 | 16 5 53 | 2°34'21 | 13°41 | 8° 1 | 27°32 | 28°54 | 19°48 | 3° 7 | 8°39 | 27°22 | 15°15 | 8°38 | 10° 7 | 11°28 | 23°43 | M24 |
| T 25 | 16 9 49 | 3°31'52 | 25°29 | 9°12 | 28°44 | 29°11 | 20° 1 | 3° 9 | 8°37 | 27°20 | 15°17 | 8°35 | 10° 4 | 11°35 | 23°39 | T 25 |
| W26 | 16 13 46 | 4°29'21 | 7♒18 | 10°26 | 29°57 | 29°29 | 20°13 | 3°11 | 8°35 | 27°19 | 15°18 | 8°D34 | 10° 1 | 11°42 | 23°35 | W26 |
| T 27 | 16 17 42 | 5°26'50 | 19°12 | 11°43 | 1♋10 | 29°45 | 20°25 | 3°14 | 8°33 | 27°17 | 15°20 | 8°34 | 9°58 | 11°48 | 23°30 | T 27 |
| F 28 | 16 21 39 | 6°24'18 | 1♓17 | 13° 2 | 2°22 | 0♒ 1 | 20°37 | 3°16 | 8°31 | 27°16 | 15°21 | 8°R35 | 9°55 | 11°55 | 23°26 | F 28 |
| S 29 | 16 25 36 | 7°21'45 | 13°38 | 14°24 | 3°35 | 0°17 | 20°49 | 3°18 | 8°29 | 27°14 | 15°22 | 8°35 | 9°52 | 12° 2 | 23°22 | S 29 |
| S 30 | 16 29 32 | 8°19'12 | 26°20 | 15°49 | 4°47 | 0°32 | 21° 1 | 3°21 | 8°27 | 27°13 | 15°24 | 8°33 | 9°48 | 12° 8 | 23°18 | S 30 |
| M31 | 16 33 29 | 9♊16'38 | 9♈27 | 17♉17 | 6♋ 0 | 0♒47 | 21♈13 | 3♍23 | 8♑25 | 27♐11 | 15♊25 | 8♒29 | 9♒45 | 12♑15 | 23♏14 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14n59 | 7s37 | 2n 4 | 9n35 | 1s11 | 20n26 | 0n21 | 23s20 | 1s23 | 4n48 | 1s 7 | 12n18 | 1n57 | 23s30 | 0s20 | 22s15 | 1n13 | 14n 0 | 8s40 | 17s25 | 17s25 | 25s57 | 15s42 | 3n33 |
| S 2 | 15 17 | 1 54 | 3 2 | 9 14 | 1 26 | 20 44 | 0 24 | 23 19 | 1 26 | 4 53 | 1 7 | 12 18 | 1 57 | 23 30 | 0 20 | 22 15 | 1 13 | 14 0 | 8 40 | 17 26 | 17 25 | 25 55 | 15 41 | 3 33 |
| M 3 | 15 35 | 4n 3 | 3 52 | 8 55 | 1 40 | 21 1 | 0 26 | 23 17 | 1 29 | 4 58 | 1 7 | 12 18 | 1 57 | 23 30 | 0 20 | 22 15 | 1 13 | 14 0 | 8 40 | 17 27 | 17 26 | 25 54 | 15 40 | 3 34 |
| T 4 | 15 52 | 10 1 | 4 30 | 8 38 | 1 54 | 21 18 | 0 29 | 23 16 | 1 31 | 5 3 | 1 7 | 12 18 | 1 56 | 23 30 | 0 20 | 22 15 | 1 14 | 14 1 | 8 40 | 17 30 | 17 27 | 25 53 | 15 38 | 3 34 |
| W 5 | 16 9 | 15 40 | 4 54 | 8 23 | 2 7 | 21 35 | 0 31 | 23 14 | 1 34 | 5 9 | 1 7 | 12 18 | 1 56 | 23 30 | 0 20 | 22 14 | 1 14 | 14 1 | 8 40 | 17 33 | 17 28 | 25 52 | 15 37 | 3 34 |
| T 6 | 16 27 | 20 36 | 5 0 | 8 11 | 2 19 | 21 50 | 0 34 | 23 13 | 1 37 | 5 14 | 1 8 | 12 18 | 1 56 | 23 30 | 0 20 | 22 14 | 1 14 | 14 1 | 8 40 | 17 36 | 17 29 | 25 50 | 15 35 | 3 35 |
| F 7 | 16 43 | 24 22 | 4 47 | 8 2 | 2 30 | 22 6 | 0 36 | 23 12 | 1 40 | 5 19 | 1 8 | 12 18 | 1 56 | 23 30 | 0 20 | 22 14 | 1 14 | 14 1 | 8 39 | 17 39 | 17 30 | 25 49 | 15 34 | 3 35 |
| S 8 | 17 0 | 26 33 | 4 15 | 7 55 | 2 40 | 22 20 | 0 39 | 23 10 | 1 43 | 5 24 | 1 8 | 12 18 | 1 56 | 23 30 | 0 20 | 22 14 | 1 14 | 14 2 | 8 39 | 17 42 | 17 31 | 25 48 | 15 33 | 3 35 |
| S 9 | 17 16 | 26 53 | 3 25 | 7 51 | 2 49 | 22 34 | 0 41 | 23 9 | 1 45 | 5 29 | 1 8 | 12 17 | 1 56 | 23 30 | 0 20 | 22 14 | 1 14 | 14 2 | 8 39 | 17 44 | 17 32 | 25 47 | 15 31 | 3 36 |
| M10 | 17 32 | 25 19 | 2 23 | 7 49 | 2 57 | 22 47 | 0 44 | 23 8 | 1 48 | 5 34 | 1 8 | 12 17 | 1 56 | 23 31 | 0 20 | 22 14 | 1 14 | 14 2 | 8 39 | 17 45 | 17 32 | 25 45 | 15 30 | 3 36 |
| T 11 | 17 48 | 22 5 | 1 12 | 7 50 | 3 4 | 23 0 | 0 46 | 23 6 | 1 51 | 5 39 | 1 8 | 12 17 | 1 55 | 23 31 | 0 20 | 22 14 | 1 14 | 14 2 | 8 39 | 17 45 | 17 33 | 25 44 | 15 29 | 3 36 |
| W12 | 18 3 | 17 34 | 0s 3 | 7 53 | 3 10 | 23 12 | 0 49 | 23 5 | 1 54 | 5 44 | 1 8 | 12 16 | 1 55 | 23 31 | 0 20 | 22 14 | 1 14 | 14 3 | 8 39 | 17 46 | 17 34 | 25 43 | 15 27 | 3 37 |
| T 13 | 18 18 | 12 11 | 1 16 | 7 58 | 3 15 | 23 23 | 0 51 | 23 4 | 1 57 | 5 49 | 1 8 | 12 16 | 1 55 | 23 31 | 0 20 | 22 14 | 1 14 | 14 3 | 8 39 | 17 46 | 17 35 | 25 42 | 15 26 | 3 37 |
| F 14 | 18 33 | 6 18 | 2 23 | 8 6 | 3 19 | 23 34 | 0 53 | 23 3 | 2 1 | 5 54 | 1 8 | 12 15 | 1 55 | 23 31 | 0 20 | 22 14 | 1 14 | 14 3 | 8 39 | 17 46 | 17 36 | 25 40 | 15 25 | 3 37 |
| S 15 | 18 48 | 0 16 | 3 21 | 8 15 | 3 23 | 23 44 | 0 56 | 23 2 | 2 4 | 5 59 | 1 8 | 12 15 | 1 55 | 23 31 | 0 20 | 22 14 | 1 14 | 14 3 | 8 38 | 17 46 | 17 37 | 25 39 | 15 23 | 3 38 |
| S 16 | 19 2 | 5s41 | 4 7 | 8 27 | 3 25 | 23 53 | 0 58 | 23 1 | 2 7 | 6 4 | 1 8 | 12 14 | 1 55 | 23 31 | 0 20 | 22 14 | 1 14 | 14 4 | 8 38 | 17 48 | 17 38 | 25 38 | 15 22 | 3 38 |
| M17 | 19 15 | 11 17 | 4 40 | 8 41 | 3 27 | 24 2 | 1 0 | 23 0 | 2 10 | 6 8 | 1 9 | 12 14 | 1 55 | 23 31 | 0 20 | 22 14 | 1 14 | 14 4 | 8 38 | 17 50 | 17 38 | 25 36 | 15 21 | 3 38 |
| T 18 | 19 29 | 16 20 | 4 58 | 8 57 | 3 28 | 24 10 | 1 3 | 22 59 | 2 14 | 6 13 | 1 9 | 12 13 | 1 54 | 23 32 | 0 20 | 22 14 | 1 14 | 14 4 | 8 38 | 17 53 | 17 39 | 25 35 | 15 19 | 3 38 |
| W19 | 19 42 | 20 36 | 5 1 | 9 14 | 3 28 | 24 17 | 1 5 | 22 59 | 2 17 | 6 18 | 1 9 | 12 13 | 1 54 | 23 32 | 0 20 | 22 14 | 1 14 | 14 4 | 8 38 | 17 56 | 17 40 | 25 34 | 15 18 | 3 39 |
| T 20 | 19 55 | 23 52 | 4 49 | 9 33 | 3 27 | 24 24 | 1 7 | 22 58 | 2 20 | 6 23 | 1 9 | 12 12 | 1 54 | 23 32 | 0 20 | 22 14 | 1 14 | 14 5 | 8 38 | 17 59 | 17 41 | 25 33 | 15 17 | 3 39 |
| F 21 | 20 7 | 26 1 | 4 25 | 9 54 | 3 26 | 24 30 | 1 9 | 22 57 | 2 24 | 6 27 | 1 9 | 12 11 | 1 54 | 23 32 | 0 20 | 22 14 | 1 14 | 14 5 | 8 38 | 18 2 | 17 42 | 25 31 | 15 15 | 3 39 |
| S 22 | 20 20 | 26 54 | 3 49 | 10 17 | 3 24 | 24 35 | 1 11 | 22 57 | 2 27 | 6 32 | 1 9 | 12 10 | 1 54 | 23 32 | 0 20 | 22 14 | 1 14 | 14 5 | 8 38 | 18 5 | 17 43 | 25 30 | 15 14 | 3 39 |
| S 23 | 20 31 | 26 31 | 3 2 | 10 40 | 3 21 | 24 39 | 1 13 | 22 57 | 2 31 | 6 37 | 1 9 | 12 10 | 1 54 | 23 32 | 0 20 | 22 14 | 1 14 | 14 5 | 8 38 | 18 7 | 17 44 | 25 28 | 15 13 | 3 39 |
| M24 | 20 43 | 24 55 | 2 9 | 11 5 | 3 18 | 24 43 | 1 15 | 22 56 | 2 34 | 6 41 | 1 9 | 12 9 | 1 54 | 23 32 | 0 20 | 22 14 | 1 14 | 14 6 | 8 38 | 18 8 | 17 44 | 25 27 | 15 11 | 3 40 |
| T 25 | 20 54 | 22 13 | 1 9 | 11 32 | 3 13 | 24 46 | 1 17 | 22 56 | 2 38 | 6 46 | 1 9 | 12 8 | 1 53 | 23 32 | 0 20 | 22 14 | 1 14 | 14 6 | 8 37 | 18 9 | 17 45 | 25 26 | 15 10 | 3 40 |
| W26 | 21 5 | 18 36 | 0 7 | 11 59 | 3 9 | 24 49 | 1 19 | 22 56 | 2 42 | 6 50 | 1 10 | 12 7 | 1 53 | 23 33 | 0 20 | 22 14 | 1 14 | 14 6 | 8 37 | 18 9 | 17 46 | 25 24 | 15 9 | 3 40 |
| T 27 | 21 15 | 14 12 | 0n57 | 12 28 | 3 3 | 24 50 | 1 21 | 22 56 | 2 45 | 6 55 | 1 10 | 12 6 | 1 53 | 23 33 | 0 20 | 22 14 | 1 14 | 14 6 | 8 37 | 18 9 | 17 47 | 25 23 | 15 8 | 3 40 |
| F 28 | 21 25 | 9 12 | 1 58 | 12 58 | 2 57 | 24 51 | 1 23 | 22 56 | 2 49 | 6 59 | 1 10 | 12 5 | 1 53 | 23 33 | 0 20 | 22 14 | 1 14 | 14 6 | 8 37 | 18 9 | 17 48 | 25 22 | 15 7 | 3 40 |
| S 29 | 21 35 | 3 44 | 2 56 | 13 28 | 2 51 | 24 51 | 1 25 | 22 57 | 2 53 | 7 4 | 1 10 | 12 4 | 1 53 | 23 33 | 0 20 | 22 14 | 1 14 | 14 7 | 8 37 | 18 9 | 17 49 | 25 20 | 15 5 | 3 41 |
| S 30 | 21 44 | 2n 0 | 3 47 | 14 0 | 2 44 | 24 50 | 1 27 | 22 57 | 2 57 | 7 8 | 1 10 | 12 3 | 1 53 | 23 33 | 0 20 | 22 14 | 1 14 | 14 7 | 8 37 | 18 10 | 17 50 | 25 19 | 15 4 | 3 41 |
| M31 | 21n53 | 7n51 | 4n28 | 14n32 | 2s36 | 24n49 | 1n28 | 22s58 | 3s 1 | 7n13 | 1s10 | 12n 2 | 1n53 | 23s33 | 0s20 | 22s13 | 1n14 | 14n 7 | 8s37 | 18s11 | 17s50 | 25s17 | 15s 3 | 3n41 |

Julian Day Number = 2325656.5, Delta T = 39.60 sec
Ecliptic obliquity = 23°29'09, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'46, Lahiri = 19°02'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## JUNE 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 37 25 | 10♊14'03 | 23♈ 2 | 18♉47 | 7♋12 | 1♒ 1 | 21♈25 | 3♍26 | 8°R23 | 27°R10 | 15♊26 | 8°R24 | 9♒42 | 12♑22 | 23°R10 | T 1 |
| W 2 | 16 41 22 | 11°11'27 | 7♉ 5 | 20°21 | 8°25 | 1°14 | 21°37 | 3°29 | 8♑21 | 27♐ 8 | 15°28 | 8♒16 | 9°39 | 12°28 | 23♏ 5 | W 2 |
| T 3 | 16 45 18 | 12° 8'51 | 21°34 | 21°56 | 9°37 | 1°27 | 21°49 | 3°32 | 8°19 | 27° 7 | 15°29 | 8° 8 | 9°36 | 12°35 | 23° 1 | T 3 |
| F 4 | 16 49 15 | 13° 6'15 | 6♊24 | 23°35 | 10°49 | 1°39 | 22° 0 | 3°35 | 8°17 | 27° 5 | 15°31 | 7°59 | 9°33 | 12°42 | 22°57 | F 4 |
| S 5 | 16 53 11 | 14° 3'37 | 21°26 | 25°16 | 12° 2 | 1°51 | 22°12 | 3°38 | 8°15 | 27° 3 | 15°32 | 7°52 | 9°29 | 12°48 | 22°53 | S 5 |
| S 6 | 16 57 8 | 15° 0'59 | 6♋31 | 27° 0 | 13°14 | 2° 1 | 22°23 | 3°41 | 8°13 | 27° 2 | 15°33 | 7°47 | 9°26 | 12°55 | 22°50 | S 6 |
| M 7 | 17 1 5 | 15°58'20 | 21°30 | 28°46 | 14°26 | 2°12 | 22°34 | 3°44 | 8°11 | 27° 0 | 15°35 | 7°43 | 9°23 | 13° 2 | 22°46 | M 7 |
| T 8 | 17 5 1 | 16°55'40 | 6♌14 | 0♊35 | 15°39 | 2°21 | 22°46 | 3°48 | 8° 9 | 26°59 | 15°36 | 7°D42 | 9°20 | 13° 8 | 22°42 | T 8 |
| W 9 | 17 8 58 | 17°52'59 | 20°40 | 2°26 | 16°51 | 2°30 | 22°57 | 3°51 | 8° 6 | 26°57 | 15°38 | 7°43 | 9°17 | 13°15 | 22°38 | W 9 |
| T 10 | 17 12 54 | 18°50'17 | 4♍44 | 4°20 | 18° 3 | 2°39 | 23° 8 | 3°55 | 8° 4 | 26°56 | 15°39 | 7°44 | 9°13 | 13°22 | 22°34 | T 10 |
| F 11 | 17 16 51 | 19°47'34 | 18°25 | 6°17 | 19°15 | 2°46 | 23°19 | 3°58 | 8° 2 | 26°54 | 15°40 | 7°R45 | 9°10 | 13°28 | 22°31 | F 11 |
| S 12 | 17 20 47 | 20°44'50 | 1♎47 | 8°15 | 20°27 | 2°53 | 23°30 | 4° 2 | 8° 0 | 26°52 | 15°42 | 7°44 | 9° 7 | 13°35 | 22°27 | S 12 |
| S 13 | 17 24 44 | 21°42'06 | 14°49 | 10°16 | 21°39 | 2°59 | 23°40 | 4° 6 | 7°57 | 26°51 | 15°43 | 7°42 | 9° 4 | 13°42 | 22°24 | S 13 |
| M14 | 17 28 40 | 22°39'20 | 27°36 | 12°19 | 22°51 | 3° 5 | 23°51 | 4°10 | 7°55 | 26°49 | 15°45 | 7°37 | 9° 1 | 13°48 | 22°20 | M14 |
| T 15 | 17 32 37 | 23°36'34 | 10♏ 9 | 14°23 | 24° 3 | 3°10 | 24° 1 | 4°14 | 7°53 | 26°47 | 15°46 | 7°31 | 8°58 | 13°55 | 22°17 | T 15 |
| W16 | 17 36 34 | 24°33'47 | 22°30 | 16°30 | 25°15 | 3°14 | 24°12 | 4°18 | 7°50 | 26°46 | 15°47 | 7°24 | 8°54 | 14° 2 | 22°14 | W16 |
| T 17 | 17 40 30 | 25°31'00 | 4♐41 | 18°38 | 26°27 | 3°17 | 24°22 | 4°22 | 7°48 | 26°44 | 15°49 | 7°16 | 8°51 | 14° 8 | 22°10 | T 17 |
| F 18 | 17 44 27 | 26°28'12 | 16°44 | 20°47 | 27°38 | 3°20 | 24°32 | 4°26 | 7°46 | 26°43 | 15°50 | 7° 9 | 8°48 | 14°15 | 22° 7 | F 18 |
| S 19 | 17 48 23 | 27°25'24 | 28°40 | 22°57 | 28°50 | 3°22 | 24°43 | 4°30 | 7°43 | 26°41 | 15°52 | 7° 3 | 8°45 | 14°22 | 22° 4 | S 19 |
| S 20 | 17 52 20 | 28°22'36 | 10♑31 | 25° 7 | 0♌ 2 | 3°23 | 24°52 | 4°35 | 7°41 | 26°39 | 15°53 | 6°58 | 8°42 | 14°28 | 22° 1 | S 20 |
| M21 | 17 56 16 | 29°19'47 | 22°19 | 27°18 | 1°13 | 3°R24 | 25° 2 | 4°39 | 7°39 | 26°38 | 15°54 | 6°55 | 8°39 | 14°35 | 21°58 | M21 |
| T 22 | 18 0 13 | 0♋16'58 | 4♒ 7 | 29°30 | 2°25 | 3°23 | 25°12 | 4°44 | 7°36 | 26°36 | 15°56 | 6°D54 | 8°35 | 14°42 | 21°55 | T 22 |
| W23 | 18 4 10 | 1°14'09 | 15°58 | 1♋41 | 3°36 | 3°22 | 25°22 | 4°48 | 7°34 | 26°35 | 15°57 | 6°55 | 8°32 | 14°48 | 21°53 | W23 |
| T 24 | 18 8 6 | 2°11'20 | 27°54 | 3°51 | 4°48 | 3°20 | 25°31 | 4°53 | 7°31 | 26°33 | 15°58 | 6°56 | 8°29 | 14°55 | 21°50 | T 24 |
| F 25 | 18 12 3 | 3° 8'31 | 10♓ 1 | 6° 1 | 5°59 | 3°18 | 25°41 | 4°58 | 7°29 | 26°31 | 16° 0 | 6°58 | 8°26 | 15° 1 | 21°47 | F 25 |
| S 26 | 18 15 59 | 4° 5'42 | 22°22 | 8°10 | 7°11 | 3°15 | 25°50 | 5° 2 | 7°27 | 26°30 | 16° 1 | 6°59 | 8°23 | 15° 8 | 21°45 | S 26 |
| S 27 | 18 19 56 | 5° 2'54 | 5♈ 2 | 10°18 | 8°22 | 3°10 | 25°59 | 5° 7 | 7°24 | 26°28 | 16° 2 | 6°R59 | 8°19 | 15°15 | 21°42 | S 27 |
| M28 | 18 23 52 | 6° 0'05 | 18° 6 | 12°25 | 9°33 | 3° 6 | 26° 8 | 5°12 | 7°22 | 26°27 | 16° 4 | 6°59 | 8°16 | 15°21 | 21°40 | M28 |
| T 29 | 18 27 49 | 6°57'17 | 1♉36 | 14°30 | 10°45 | 3° 0 | 26°17 | 5°17 | 7°19 | 26°25 | 16° 5 | 6°57 | 8°13 | 15°28 | 21°38 | T 29 |
| W30 | 18 31 45 | 7♋54'29 | 15♉33 | 16♋34 | 11♌56 | 2♒54 | 26♈26 | 5♍23 | 7♑17 | 26♐23 | 16♊ 6 | 6♒54 | 8♒10 | 15♑35 | 21♏35 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 2 | 13n31 | 4n55 | 15n 4 | 2s28 | 24n47 | 1n30 | 22s59 | 3s 5 | 7n17 | 1s10 | 12n 1 | 1n53 | 23s33 | 0s20 | 22s13 | 1n14 | 14n 7 | 8s37 | 18s12 | 17s51 | 25s16 | 15s 2 | 3n41 |
| W 2 | 22 10 | 18 42 | 5 5 | 15 38 | 2 19 | 24 44 | 1 31 | 23 0 | 3 9 | 7 21 | 1 10 | 12 0 | 1 52 | 23 34 | 0 20 | 22 13 | 1 14 | 14 7 | 8 37 | 18 14 | 17 52 | 25 15 | 15 1 | 3 41 |
| T 3 | 22 18 | 22 58 | 4 57 | 16 11 | 2 10 | 24 41 | 1 33 | 23 1 | 3 13 | 7 25 | 1 11 | 11 58 | 1 52 | 23 34 | 0 20 | 22 13 | 1 14 | 14 8 | 8 37 | 18 16 | 17 53 | 25 13 | 15 0 | 3 41 |
| F 4 | 22 25 | 25 50 | 4 29 | 16 45 | 2 1 | 24 37 | 1 34 | 23 2 | 3 17 | 7 30 | 1 11 | 11 57 | 1 52 | 23 34 | 0 20 | 22 13 | 1 14 | 14 8 | 8 37 | 18 18 | 17 54 | 25 12 | 14 58 | 3 42 |
| S 5 | 22 32 | 26 54 | 3 42 | 17 19 | 1 51 | 24 32 | 1 36 | 23 3 | 3 21 | 7 34 | 1 11 | 11 56 | 1 52 | 23 34 | 0 20 | 22 13 | 1 14 | 14 8 | 8 37 | 18 20 | 17 55 | 25 10 | 14 57 | 3 42 |
| S 6 | 22 39 | 25 59 | 2 40 | 17 53 | 1 41 | 24 26 | 1 37 | 23 5 | 3 25 | 7 38 | 1 11 | 11 55 | 1 52 | 23 34 | 0 20 | 22 13 | 1 14 | 14 8 | 8 37 | 18 22 | 17 56 | 25 9 | 14 56 | 3 42 |
| M 7 | 22 45 | 23 11 | 1 26 | 18 27 | 1 31 | 24 20 | 1 38 | 23 7 | 3 30 | 7 42 | 1 11 | 11 53 | 1 52 | 23 34 | 0 20 | 22 13 | 1 14 | 14 8 | 8 37 | 18 22 | 17 56 | 25 7 | 14 55 | 3 42 |
| T 8 | 22 51 | 18 53 | 0 8 | 19 0 | 1 20 | 24 13 | 1 40 | 23 9 | 3 34 | 7 46 | 1 11 | 11 52 | 1 52 | 23 34 | 0 20 | 22 13 | 1 14 | 14 9 | 8 37 | 18 23 | 17 57 | 25 6 | 14 54 | 3 42 |
| W 9 | 22 56 | 13 32 | 1s 9 | 19 34 | 1 9 | 24 5 | 1 41 | 23 11 | 3 38 | 7 50 | 1 11 | 11 51 | 1 51 | 23 35 | 0 20 | 22 13 | 1 14 | 14 9 | 8 37 | 18 23 | 17 58 | 25 5 | 14 53 | 3 42 |
| T 10 | 23 1 | 7 37 | 2 20 | 20 6 | 0 58 | 23 57 | 1 42 | 23 13 | 3 43 | 7 54 | 1 12 | 11 49 | 1 51 | 23 35 | 0 20 | 22 13 | 1 14 | 14 9 | 8 37 | 18 22 | 17 59 | 25 3 | 14 52 | 3 42 |
| F 11 | 23 6 | 1 30 | 3 22 | 20 38 | 0 47 | 23 48 | 1 43 | 23 15 | 3 47 | 7 58 | 1 12 | 11 48 | 1 51 | 23 35 | 0 20 | 22 13 | 1 14 | 14 9 | 8 37 | 18 22 | 18 0 | 25 2 | 14 51 | 3 42 |
| S 12 | 23 10 | 4s32 | 4 10 | 21 8 | 0 36 | 23 38 | 1 44 | 23 18 | 3 51 | 8 2 | 1 12 | 11 46 | 1 51 | 23 35 | 0 21 | 22 13 | 1 14 | 14 9 | 8 36 | 18 22 | 18 1 | 25 0 | 14 50 | 3 42 |
| S 13 | 23 13 | 10 13 | 4 45 | 21 38 | 0 24 | 23 28 | 1 45 | 23 21 | 3 56 | 8 5 | 1 12 | 11 45 | 1 51 | 23 35 | 0 21 | 22 13 | 1 14 | 14 9 | 8 36 | 18 23 | 18 1 | 24 59 | 14 49 | 3 42 |
| M14 | 23 17 | 15 22 | 5 4 | 22 6 | 0 13 | 23 17 | 1 45 | 23 24 | 4 0 | 8 9 | 1 12 | 11 43 | 1 51 | 23 35 | 0 21 | 22 13 | 1 14 | 14 10 | 8 36 | 18 24 | 18 2 | 24 57 | 14 48 | 3 42 |
| T 15 | 23 20 | 19 45 | 5 8 | 22 32 | 0 2 | 23 5 | 1 46 | 23 27 | 4 5 | 8 13 | 1 12 | 11 42 | 1 51 | 23 36 | 0 21 | 22 13 | 1 14 | 14 10 | 8 36 | 18 26 | 18 3 | 24 56 | 14 47 | 3 42 |
| W16 | 23 22 | 23 14 | 4 58 | 22 57 | 0n 9 | 22 52 | 1 47 | 23 31 | 4 9 | 8 17 | 1 13 | 11 40 | 1 51 | 23 36 | 0 21 | 22 13 | 1 14 | 14 10 | 8 36 | 18 27 | 18 4 | 24 54 | 14 47 | 3 42 |
| T 17 | 23 25 | 25 37 | 4 34 | 23 19 | 0 20 | 22 39 | 1 47 | 23 34 | 4 14 | 8 20 | 1 13 | 11 39 | 1 50 | 23 36 | 0 21 | 22 13 | 1 14 | 14 10 | 8 36 | 18 29 | 18 5 | 24 53 | 14 46 | 3 42 |
| F 18 | 23 26 | 26 47 | 3 59 | 23 40 | 0 30 | 22 26 | 1 48 | 23 38 | 4 18 | 8 24 | 1 13 | 11 37 | 1 50 | 23 36 | 0 21 | 22 13 | 1 14 | 14 10 | 8 36 | 18 31 | 18 6 | 24 51 | 14 45 | 3 43 |
| S 19 | 23 28 | 26 42 | 3 13 | 23 58 | 0 40 | 22 12 | 1 48 | 23 42 | 4 23 | 8 27 | 1 13 | 11 35 | 1 50 | 23 36 | 0 21 | 22 13 | 1 14 | 14 10 | 8 36 | 18 33 | 18 6 | 24 50 | 14 44 | 3 43 |
| S 20 | 23 29 | 25 22 | 2 19 | 24 13 | 0 49 | 21 57 | 1 48 | 23 46 | 4 27 | 8 31 | 1 13 | 11 34 | 1 50 | 23 36 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 34 | 18 7 | 24 48 | 14 43 | 3 43 |
| M21 | 23 29 | 22 56 | 1 19 | 24 26 | 0 58 | 21 41 | 1 49 | 23 50 | 4 32 | 8 34 | 1 13 | 11 32 | 1 50 | 23 36 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 35 | 18 8 | 24 47 | 14 43 | 3 43 |
| T 22 | 23 29 | 19 31 | 0 15 | 24 36 | 1 7 | 21 25 | 1 49 | 23 55 | 4 37 | 8 38 | 1 14 | 11 30 | 1 50 | 23 37 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 35 | 18 9 | 24 45 | 14 42 | 3 43 |
| W23 | 23 29 | 15 18 | 0n49 | 24 43 | 1 14 | 21 9 | 1 49 | 24 0 | 4 41 | 8 41 | 1 14 | 11 28 | 1 50 | 23 37 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 35 | 18 10 | 24 43 | 14 41 | 3 43 |
| T 24 | 23 28 | 10 28 | 1 52 | 24 47 | 1 21 | 20 52 | 1 49 | 24 4 | 4 46 | 8 44 | 1 14 | 11 26 | 1 50 | 23 37 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 35 | 18 11 | 24 42 | 14 40 | 3 43 |
| F 25 | 23 27 | 5 11 | 2 51 | 24 48 | 1 28 | 20 34 | 1 49 | 24 9 | 4 50 | 8 48 | 1 14 | 11 25 | 1 50 | 23 37 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 34 | 18 11 | 24 40 | 14 40 | 3 43 |
| S 26 | 23 25 | 0n23 | 3 43 | 24 47 | 1 33 | 20 16 | 1 48 | 24 15 | 4 55 | 8 51 | 1 14 | 11 23 | 1 50 | 23 37 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 34 | 18 12 | 24 39 | 14 39 | 3 42 |
| S 27 | 23 23 | 6 5 | 4 26 | 24 43 | 1 38 | 19 57 | 1 48 | 24 20 | 4 59 | 8 54 | 1 14 | 11 21 | 1 49 | 23 37 | 0 21 | 22 13 | 1 14 | 14 11 | 8 36 | 18 34 | 18 13 | 24 37 | 14 39 | 3 42 |
| M28 | 23 21 | 11 41 | 4 57 | 24 36 | 1 42 | 19 38 | 1 48 | 24 25 | 5 4 | 8 57 | 1 15 | 11 19 | 1 49 | 23 37 | 0 21 | 22 13 | 1 14 | 14 12 | 8 36 | 18 34 | 18 14 | 24 36 | 14 38 | 3 42 |
| T 29 | 23 18 | 16 55 | 5 12 | 24 27 | 1 46 | 19 18 | 1 47 | 24 31 | 5 8 | 9 0 | 1 15 | 11 17 | 1 49 | 23 38 | 0 21 | 22 13 | 1 14 | 14 12 | 8 36 | 18 34 | 18 15 | 24 34 | 14 37 | 3 42 |
| W30 | 23n15 | 21n28 | 5n10 | 24n15 | 1n49 | 18n57 | 1n47 | 24s37 | 5s12 | 9n 3 | 1s15 | 11n15 | 1n49 | 23s38 | 0s21 | 22s13 | 1n14 | 14n12 | 8s36 | 18s35 | 18s16 | 24s32 | 14s37 | 3n42 |

Julian Day Number = 2325687.5, Delta T = 39.54 sec
Ecliptic obliquity = 23°29'08, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'50, Lahiri = 19°02'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## JULY 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 35 42 | 8♋51'41 | 29♉58 | 18♋36 | 13♌ 7 | 2°R47 | 26♈35 | 5♍28 | 7°R14 | 26°R22 | 16♊ 8 | 6°R50 | 8♒ 7 | 15♑41 | 21°R33 | T 1 |
| F 2 | 18 39 39 | 9°48'54 | 14♊46 | 20°37 | 14°18 | 2♒39 | 26°43 | 5°33 | 7♑12 | 26♐20 | 16° 9 | 6♒46 | 8° 4 | 15°48 | 21♏31 | F 2 |
| S 3 | 18 43 35 | 10°46'07 | 29°51 | 22°35 | 15°29 | 2°30 | 26°51 | 5°38 | 7°10 | 26°19 | 16°10 | 6°43 | 8° 0 | 15°55 | 21°29 | S 3 |
| S 4 | 18 47 32 | 11°43'20 | 15♋ 3 | 24°32 | 16°40 | 2°21 | 27° 0 | 5°44 | 7° 7 | 26°17 | 16°12 | 6°41 | 7°57 | 16° 1 | 21°28 | S 4 |
| M 5 | 18 51 28 | 12°40'34 | 0♌13 | 26°27 | 17°51 | 2°11 | 27° 8 | 5°49 | 7° 5 | 26°16 | 16°13 | 6°D40 | 7°54 | 16° 8 | 21°26 | M 5 |
| T 6 | 18 55 25 | 13°37'47 | 15°11 | 28°20 | 19° 2 | 2° 1 | 27°16 | 5°55 | 7° 2 | 26°14 | 16°14 | 6°40 | 7°51 | 16°15 | 21°24 | T 6 |
| W 7 | 18 59 21 | 14°35'00 | 29°51 | 0♌11 | 20°13 | 1°49 | 27°24 | 6° 0 | 7° 0 | 26°12 | 16°15 | 6°41 | 7°48 | 16°21 | 21°23 | W 7 |
| T 8 | 19 3 18 | 15°32'13 | 14♍ 7 | 2° 1 | 21°23 | 1°38 | 27°31 | 6° 6 | 6°58 | 26°11 | 16°17 | 6°42 | 7°45 | 16°28 | 21°21 | T 8 |
| F 9 | 19 7 14 | 16°29'27 | 27°58 | 3°48 | 22°34 | 1°25 | 27°39 | 6°12 | 6°55 | 26° 9 | 16°18 | 6°43 | 7°41 | 16°35 | 21°20 | F 9 |
| S 10 | 19 11 11 | 17°26'40 | 11♎23 | 5°33 | 23°45 | 1°13 | 27°46 | 6°17 | 6°53 | 26° 8 | 16°19 | 6°R44 | 7°38 | 16°41 | 21°18 | S 10 |
| S 11 | 19 15 8 | 18°23'53 | 24°26 | 7°17 | 24°55 | 0°59 | 27°54 | 6°23 | 6°50 | 26° 7 | 16°20 | 6°44 | 7°35 | 16°48 | 21°17 | S 11 |
| M12 | 19 19 4 | 19°21'07 | 7♏ 8 | 8°58 | 26° 6 | 0°45 | 28° 1 | 6°29 | 6°48 | 26° 5 | 16°22 | 6°43 | 7°32 | 16°55 | 21°16 | M12 |
| T 13 | 19 23 1 | 20°18'21 | 19°34 | 10°38 | 27°16 | 0°31 | 28° 8 | 6°35 | 6°46 | 26° 4 | 16°23 | 6°42 | 7°29 | 17° 1 | 21°15 | T 13 |
| W14 | 19 26 57 | 21°15'35 | 1♐46 | 12°16 | 28°26 | 0°17 | 28°14 | 6°41 | 6°43 | 26° 2 | 16°24 | 6°40 | 7°25 | 17° 8 | 21°14 | W14 |
| T 15 | 19 30 54 | 22°12'49 | 13°48 | 13°52 | 29°37 | 0° 2 | 28°21 | 6°47 | 6°41 | 26° 1 | 16°25 | 6°38 | 7°22 | 17°15 | 21°14 | T 15 |
| F 16 | 19 34 50 | 23°10'04 | 25°42 | 15°26 | 0♍47 | 29♑46 | 28°28 | 6°53 | 6°39 | 25°59 | 16°26 | 6°36 | 7°19 | 17°21 | 21°13 | F 16 |
| S 17 | 19 38 47 | 24° 7'19 | 7♑33 | 16°58 | 1°57 | 29°31 | 28°34 | 6°59 | 6°37 | 25°58 | 16°28 | 6°34 | 7°16 | 17°28 | 21°12 | S 17 |
| S 18 | 19 42 43 | 25° 4'34 | 19°21 | 18°28 | 3° 7 | 29°15 | 28°40 | 7° 6 | 6°34 | 25°57 | 16°29 | 6°33 | 7°13 | 17°35 | 21°12 | S 18 |
| M19 | 19 46 40 | 26° 1'50 | 1♒10 | 19°56 | 4°17 | 28°59 | 28°46 | 7°12 | 6°32 | 25°55 | 16°30 | 6°D32 | 7°10 | 17°41 | 21°11 | M19 |
| T 20 | 19 50 37 | 26°59'07 | 13° 1 | 21°22 | 5°27 | 28°43 | 28°52 | 7°18 | 6°30 | 25°54 | 16°31 | 6°32 | 7° 6 | 17°48 | 21°11 | T 20 |
| W21 | 19 54 33 | 27°56'25 | 24°57 | 22°46 | 6°36 | 28°27 | 28°58 | 7°24 | 6°28 | 25°53 | 16°32 | 6°33 | 7° 3 | 17°55 | 21°11 | W21 |
| T 22 | 19 58 30 | 28°53'43 | 7♓ 1 | 24° 8 | 7°46 | 28°10 | 29° 3 | 7°31 | 6°25 | 25°51 | 16°33 | 6°33 | 7° 0 | 18° 1 | 21°D11 | T 22 |
| F 23 | 20 2 26 | 29°51'02 | 19°15 | 25°28 | 8°56 | 27°54 | 29° 9 | 7°37 | 6°23 | 25°50 | 16°34 | 6°34 | 6°57 | 18° 8 | 21°11 | F 23 |
| S 24 | 20 6 23 | 0♌48'22 | 1♈42 | 26°46 | 10° 5 | 27°38 | 29°14 | 7°44 | 6°21 | 25°49 | 16°35 | 6°35 | 6°54 | 18°14 | 21°11 | S 24 |
| S 25 | 20 10 19 | 1°45'43 | 14°25 | 28° 2 | 11°15 | 27°21 | 29°19 | 7°50 | 6°19 | 25°48 | 16°36 | 6°35 | 6°51 | 18°21 | 21°11 | S 25 |
| M26 | 20 14 16 | 2°43'05 | 27°28 | 29°16 | 12°24 | 27° 5 | 29°24 | 7°57 | 6°17 | 25°46 | 16°37 | 6°R35 | 6°47 | 18°28 | 21°11 | M26 |
| T 27 | 20 18 12 | 3°40'29 | 10♉53 | 0♍27 | 13°33 | 26°49 | 29°28 | 8° 4 | 6°15 | 25°45 | 16°38 | 6°35 | 6°44 | 18°34 | 21°12 | T 27 |
| W28 | 20 22 9 | 4°37'53 | 24°42 | 1°36 | 14°42 | 26°33 | 29°33 | 8°10 | 6°13 | 25°44 | 16°39 | 6°35 | 6°41 | 18°41 | 21°12 | W28 |
| T 29 | 20 26 6 | 5°35'19 | 8♊54 | 2°43 | 15°52 | 26°18 | 29°37 | 8°17 | 6°11 | 25°43 | 16°40 | 6°35 | 6°38 | 18°48 | 21°13 | T 29 |
| F 30 | 20 30 2 | 6°32'46 | 23°29 | 3°47 | 17° 1 | 26° 2 | 29°41 | 8°24 | 6° 9 | 25°42 | 16°41 | 6°D35 | 6°35 | 18°54 | 21°14 | F 30 |
| S 31 | 20 33 59 | 7♌30'15 | 8♋22 | 4♍48 | 18♍10 | 25♑47 | 29♈45 | 8♍31 | 6♑ 7 | 25♐41 | 16♊42 | 6♒35 | 6♒31 | 19♑ 1 | 21♏15 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n11 | 24n53 | 4n48 | 24n 1 | 1n50 | 18n37 | 1n46 | 24s43 | 5s17 | 9n 6 | 1s15 | 11n13 | 1n49 | 23s38 | 0s21 | 22s12 | 1n14 | 14n12 | 8s37 | 18s36 | 18s16 | 24s31 | 14s36 | 3n42 |
| F 2 | 23 7 | 26 43 | 4 8 | 23 44 | 1 52 | 18 15 | 1 46 | 24 49 | 5 21 | 9 9 | 1 15 | 11 11 | 1 49 | 23 38 | 0 21 | 22 12 | 1 14 | 14 12 | 8 37 | 18 37 | 18 17 | 24 29 | 14 36 | 3 42 |
| S 3 | 23 3 | 26 38 | 3 9 | 23 26 | 1 52 | 17 54 | 1 45 | 24 55 | 5 25 | 9 12 | 1 16 | 11 9 | 1 49 | 23 38 | 0 21 | 22 12 | 1 14 | 14 12 | 8 37 | 18 38 | 18 18 | 24 28 | 14 36 | 3 42 |
| S 4 | 22 58 | 24 34 | 1 56 | 23 6 | 1 52 | 17 31 | 1 44 | 25 1 | 5 29 | 9 15 | 1 16 | 11 7 | 1 49 | 23 38 | 0 21 | 22 12 | 1 14 | 14 12 | 8 37 | 18 38 | 18 19 | 24 26 | 14 35 | 3 42 |
| M 5 | 22 53 | 20 43 | 0 35 | 22 43 | 1 51 | 17 9 | 1 43 | 25 7 | 5 34 | 9 17 | 1 16 | 11 5 | 1 49 | 23 38 | 0 21 | 22 12 | 1 14 | 14 12 | 8 37 | 18 39 | 18 20 | 24 24 | 14 35 | 3 42 |
| T 6 | 22 47 | 15 34 | 0s47 | 22 20 | 1 50 | 16 46 | 1 42 | 25 14 | 5 37 | 9 20 | 1 16 | 11 3 | 1 49 | 23 39 | 0 21 | 22 12 | 1 14 | 14 12 | 8 37 | 18 39 | 18 21 | 24 23 | 14 34 | 3 42 |
| W 7 | 22 41 | 9 36 | 2 4 | 21 54 | 1 48 | 16 22 | 1 41 | 25 20 | 5 41 | 9 23 | 1 16 | 11 0 | 1 48 | 23 39 | 0 21 | 22 12 | 1 14 | 14 12 | 8 37 | 18 38 | 18 21 | 24 21 | 14 34 | 3 42 |
| T 8 | 22 35 | 3 18 | 3 12 | 21 27 | 1 45 | 15 58 | 1 39 | 25 26 | 5 45 | 9 25 | 1 17 | 10 58 | 1 48 | 23 39 | 0 21 | 22 12 | 1 14 | 14 12 | 8 37 | 18 38 | 18 22 | 24 20 | 14 34 | 3 42 |
| F 9 | 22 28 | 2s57 | 4 7 | 20 59 | 1 42 | 15 34 | 1 38 | 25 33 | 5 49 | 9 28 | 1 17 | 10 56 | 1 48 | 23 39 | 0 21 | 22 12 | 1 14 | 14 13 | 8 37 | 18 38 | 18 23 | 24 18 | 14 34 | 3 42 |
| S 10 | 22 21 | 8 53 | 4 46 | 20 30 | 1 38 | 15 9 | 1 37 | 25 39 | 5 52 | 9 30 | 1 17 | 10 54 | 1 48 | 23 39 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 38 | 18 24 | 24 16 | 14 33 | 3 42 |
| S 11 | 22 13 | 14 16 | 5 9 | 20 0 | 1 33 | 14 44 | 1 35 | 25 46 | 5 56 | 9 33 | 1 17 | 10 52 | 1 48 | 23 39 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 38 | 18 25 | 24 15 | 14 33 | 3 42 |
| M12 | 22 5 | 18 53 | 5 16 | 19 28 | 1 29 | 14 19 | 1 34 | 25 52 | 5 59 | 9 35 | 1 17 | 10 49 | 1 48 | 23 39 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 38 | 18 25 | 24 13 | 14 33 | 3 41 |
| T 13 | 21 57 | 22 35 | 5 8 | 18 56 | 1 23 | 13 53 | 1 32 | 25 58 | 6 2 | 9 37 | 1 18 | 10 47 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 38 | 18 26 | 24 11 | 14 33 | 3 41 |
| W14 | 21 48 | 25 13 | 4 46 | 18 23 | 1 17 | 13 27 | 1 30 | 26 4 | 6 5 | 9 39 | 1 18 | 10 45 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 39 | 18 27 | 24 10 | 14 33 | 3 41 |
| T 15 | 21 39 | 26 40 | 4 12 | 17 50 | 1 11 | 13 1 | 1 28 | 26 11 | 6 8 | 9 42 | 1 18 | 10 42 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 39 | 18 28 | 24 8 | 14 32 | 3 41 |
| F 16 | 21 30 | 26 52 | 3 27 | 17 16 | 1 4 | 12 34 | 1 26 | 26 17 | 6 11 | 9 44 | 1 18 | 10 40 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 40 | 18 29 | 24 6 | 14 32 | 3 41 |
| S 17 | 21 20 | 25 50 | 2 34 | 16 41 | 0 57 | 12 7 | 1 24 | 26 23 | 6 14 | 9 46 | 1 19 | 10 38 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 40 | 18 29 | 24 4 | 14 32 | 3 41 |
| S 18 | 21 10 | 23 38 | 1 34 | 16 7 | 0 50 | 11 40 | 1 22 | 26 28 | 6 16 | 9 48 | 1 19 | 10 35 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 40 | 18 30 | 24 3 | 14 32 | 3 41 |
| M19 | 20 59 | 20 25 | 0 30 | 15 31 | 0 42 | 11 12 | 1 20 | 26 34 | 6 18 | 9 50 | 1 19 | 10 33 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 37 | 18 40 | 18 31 | 24 1 | 14 32 | 3 41 |
| T 20 | 20 48 | 16 22 | 0n36 | 14 56 | 0 33 | 10 44 | 1 18 | 26 39 | 6 20 | 9 51 | 1 19 | 10 31 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 32 | 23 59 | 14 32 | 3 41 |
| W21 | 20 37 | 11 39 | 1 40 | 14 21 | 0 25 | 10 16 | 1 15 | 26 45 | 6 22 | 9 53 | 1 19 | 10 28 | 1 48 | 23 40 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 33 | 23 58 | 14 32 | 3 41 |
| T 22 | 20 25 | 6 27 | 2 41 | 13 45 | 0 16 | 9 48 | 1 13 | 26 50 | 6 24 | 9 55 | 1 20 | 10 26 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 33 | 23 56 | 14 33 | 3 40 |
| F 23 | 20 13 | 0 57 | 3 36 | 13 10 | 0 7 | 9 19 | 1 10 | 26 55 | 6 26 | 9 57 | 1 20 | 10 23 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 34 | 23 54 | 14 33 | 3 40 |
| S 24 | 20 1 | 4n40 | 4 21 | 12 34 | 0s 3 | 8 51 | 1 8 | 27 0 | 6 27 | 9 58 | 1 20 | 10 21 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 35 | 23 52 | 14 33 | 3 40 |
| S 25 | 19 48 | 10 13 | 4 54 | 11 59 | 0 13 | 8 22 | 1 5 | 27 4 | 6 28 | 10 0 | 1 20 | 10 18 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 36 | 23 51 | 14 33 | 3 40 |
| M26 | 19 35 | 15 28 | 5 14 | 11 24 | 0 23 | 7 52 | 1 2 | 27 8 | 6 29 | 10 1 | 1 21 | 10 16 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 37 | 23 49 | 14 33 | 3 40 |
| T 27 | 19 22 | 20 8 | 5 17 | 10 49 | 0 33 | 7 23 | 0 59 | 27 13 | 6 30 | 10 3 | 1 21 | 10 13 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 37 | 23 47 | 14 33 | 3 40 |
| W28 | 19 9 | 23 51 | 5 2 | 10 15 | 0 44 | 6 54 | 0 56 | 27 16 | 6 31 | 10 4 | 1 21 | 10 11 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 38 | 23 45 | 14 34 | 3 40 |
| T 29 | 18 55 | 26 15 | 4 29 | 9 41 | 0 54 | 6 24 | 0 53 | 27 20 | 6 31 | 10 5 | 1 21 | 10 8 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 39 | 23 44 | 14 34 | 3 39 |
| F 30 | 18 40 | 26 57 | 3 37 | 9 8 | 1 5 | 5 54 | 0 50 | 27 23 | 6 32 | 10 7 | 1 22 | 10 5 | 1 47 | 23 41 | 0 21 | 22 12 | 1 13 | 14 13 | 8 38 | 18 40 | 18 40 | 23 42 | 14 34 | 3 39 |
| S 31 | 18n26 | 25n44 | 2n31 | 8n35 | 1s16 | 5n24 | 0n46 | 27s26 | 6s32 | 10n 8 | 1s22 | 10n 3 | 1n47 | 23s41 | 0s21 | 22s12 | 1n13 | 14n13 | 8s39 | 18s40 | 18s41 | 23s40 | 14s35 | 3n39 |

Julian Day Number = 2325717.5, Delta T = 39.49 sec
Ecliptic obliquity = 23°29'08, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'54, Lahiri = 19°02'55Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## AUGUST 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 37 55 | 8♌27'44 | 23♋25 | 5♍47 | 19♍18 | 25°R33 | 29♈49 | 8♍37 | 6°R 5 | 25°R39 | 16♊43 | 6♒35 | 6♒28 | 19♑ 8 | 21♏15 | S 1 |
| M 2 | 20 41 52 | 9°25'15 | 8♌32 | 6°43 | 20°27 | 25♑18 | 29°53 | 8°44 | 6♑ 3 | 25♐38 | 16°44 | 6°R35 | 6°25 | 19°14 | 21°16 | M 2 |
| T 3 | 20 45 48 | 10°22'46 | 23°32 | 7°36 | 21°36 | 25° 5 | 29°56 | 8°51 | 6° 1 | 25°37 | 16°45 | 6°35 | 6°22 | 19°21 | 21°18 | T 3 |
| W 4 | 20 49 45 | 11°20'19 | 8♍18 | 8°26 | 22°44 | 24°51 | 29°59 | 8°58 | 5°59 | 25°36 | 16°46 | 6°35 | 6°19 | 19°28 | 21°19 | W 4 |
| T 5 | 20 53 42 | 12°17'52 | 22°43 | 9°12 | 23°53 | 24°39 | 0♉ 2 | 9° 5 | 5°57 | 25°35 | 16°47 | 6°34 | 6°16 | 19°34 | 21°20 | T 5 |
| F 6 | 20 57 38 | 13°15'26 | 6♎42 | 9°55 | 25° 1 | 24°27 | 0° 5 | 9°12 | 5°56 | 25°34 | 16°48 | 6°34 | 6°12 | 19°41 | 21°22 | F 6 |
| S 7 | 21 1 35 | 14°13'02 | 20°15 | 10°34 | 26° 9 | 24°15 | 0° 8 | 9°19 | 5°54 | 25°33 | 16°49 | 6°33 | 6° 9 | 19°48 | 21°23 | S 7 |
| S 8 | 21 5 31 | 15°10'38 | 3♏23 | 11°10 | 27°17 | 24° 4 | 0°10 | 9°26 | 5°52 | 25°32 | 16°49 | 6°32 | 6° 6 | 19°54 | 21°25 | S 8 |
| M 9 | 21 9 28 | 16° 8'15 | 16° 6 | 11°41 | 28°25 | 23°54 | 0°13 | 9°34 | 5°51 | 25°32 | 16°50 | 6°D32 | 6° 3 | 20° 1 | 21°26 | M 9 |
| T 10 | 21 13 24 | 17° 5'53 | 28°30 | 12° 8 | 29°33 | 23°44 | 0°15 | 9°41 | 5°49 | 25°31 | 16°51 | 6°32 | 6° 0 | 20° 8 | 21°28 | T 10 |
| W11 | 21 17 21 | 18° 3'33 | 10♐39 | 12°31 | 0♎41 | 23°36 | 0°17 | 9°48 | 5°47 | 25°30 | 16°52 | 6°33 | 5°57 | 20°14 | 21°30 | W11 |
| T 12 | 21 21 17 | 19° 1'13 | 22°37 | 12°49 | 1°48 | 23°28 | 0°18 | 9°55 | 5°46 | 25°29 | 16°53 | 6°34 | 5°53 | 20°21 | 21°32 | T 12 |
| F 13 | 21 25 14 | 19°58'55 | 4♑28 | 13° 2 | 2°56 | 23°20 | 0°20 | 10° 2 | 5°44 | 25°28 | 16°53 | 6°35 | 5°50 | 20°28 | 21°34 | F 13 |
| S 14 | 21 29 11 | 20°56'37 | 16°16 | 13° 9 | 4° 3 | 23°14 | 0°21 | 10°10 | 5°43 | 25°28 | 16°54 | 6°36 | 5°47 | 20°34 | 21°37 | S 14 |
| S 15 | 21 33 7 | 21°54'21 | 28° 5 | 13°R12 | 5°10 | 23° 8 | 0°22 | 10°17 | 5°41 | 25°27 | 16°55 | 6°37 | 5°44 | 20°41 | 21°39 | S 15 |
| M16 | 21 37 4 | 22°52'06 | 9♒57 | 13° 8 | 6°17 | 23° 3 | 0°23 | 10°24 | 5°40 | 25°26 | 16°55 | 6°R37 | 5°41 | 20°47 | 21°41 | M16 |
| T 17 | 21 41 0 | 23°49'52 | 21°55 | 13° 0 | 7°24 | 22°59 | 0°24 | 10°31 | 5°39 | 25°25 | 16°56 | 6°37 | 5°37 | 20°54 | 21°44 | T 17 |
| W18 | 21 44 57 | 24°47'40 | 4♓ 2 | 12°45 | 8°31 | 22°55 | 0°24 | 10°39 | 5°37 | 25°25 | 16°57 | 6°35 | 5°34 | 21° 1 | 21°46 | W18 |
| T 19 | 21 48 53 | 25°45'30 | 16°18 | 12°24 | 9°37 | 22°53 | 0°25 | 10°46 | 5°36 | 25°24 | 16°57 | 6°33 | 5°31 | 21° 7 | 21°49 | T 19 |
| F 20 | 21 52 50 | 26°43'20 | 28°46 | 11°58 | 10°44 | 22°51 | 0°R25 | 10°53 | 5°35 | 25°24 | 16°58 | 6°30 | 5°28 | 21°14 | 21°52 | F 20 |
| S 21 | 21 56 46 | 27°41'13 | 11♈27 | 11°25 | 11°50 | 22°50 | 0°25 | 11° 1 | 5°34 | 25°23 | 16°58 | 6°27 | 5°25 | 21°21 | 21°55 | S 21 |
| S 22 | 22 0 43 | 28°39'07 | 24°21 | 10°48 | 12°56 | 22°D49 | 0°25 | 11° 8 | 5°32 | 25°23 | 16°59 | 6°24 | 5°22 | 21°27 | 21°58 | S 22 |
| M23 | 22 4 39 | 29°37'03 | 7♉31 | 10° 5 | 14° 2 | 22°50 | 0°24 | 11°16 | 5°31 | 25°22 | 17° 0 | 6°21 | 5°18 | 21°34 | 22° 1 | M23 |
| T 24 | 22 8 36 | 0♍35'01 | 20°57 | 9°18 | 15° 8 | 22°51 | 0°23 | 11°23 | 5°30 | 25°22 | 17° 0 | 6°20 | 5°15 | 21°41 | 22° 4 | T 24 |
| W25 | 22 12 33 | 1°33'01 | 4♊40 | 8°27 | 16°14 | 22°54 | 0°23 | 11°31 | 5°29 | 25°21 | 17° 1 | 6°D20 | 5°12 | 21°47 | 22° 7 | W25 |
| T 26 | 22 16 29 | 2°31'03 | 18°41 | 7°33 | 17°19 | 22°57 | 0°22 | 11°38 | 5°28 | 25°21 | 17° 1 | 6°20 | 5° 9 | 21°54 | 22°11 | T 26 |
| F 27 | 22 20 26 | 3°29'07 | 2♋59 | 6°36 | 18°24 | 23° 1 | 0°20 | 11°46 | 5°27 | 25°20 | 17° 2 | 6°22 | 5° 6 | 22° 1 | 22°14 | F 27 |
| S 28 | 22 24 22 | 4°27'13 | 17°31 | 5°39 | 19°29 | 23° 5 | 0°19 | 11°53 | 5°27 | 25°20 | 17° 2 | 6°23 | 5° 3 | 22° 7 | 22°17 | S 28 |
| S 29 | 22 28 19 | 5°25'21 | 2♌15 | 4°42 | 20°34 | 23°11 | 0°17 | 12° 1 | 5°26 | 25°20 | 17° 2 | 6°R24 | 4°59 | 22°14 | 22°21 | S 29 |
| M30 | 22 32 15 | 6°23'31 | 17° 4 | 3°47 | 21°39 | 23°17 | 0°15 | 12° 8 | 5°25 | 25°20 | 17° 3 | 6°24 | 4°56 | 22°21 | 22°25 | M30 |
| T 31 | 22 36 12 | 7♍21'42 | 1♍52 | 2♍54 | 22♎44 | 23♑24 | 0♉13 | 12♍16 | 5♑24 | 25♐19 | 17♊ 3 | 6♒22 | 4♒53 | 22♑27 | 22♏29 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n11 | 22n38 | 1n13 | 8n 3 | 1s27 | 4n54 | 0n43 | 27s29 | 6s32 | 10n 9 | 1s22 | 10n 0 | 1n47 | 23s42 | 0s21 | 22s12 | 1n13 | 14n13 | 8s39 | 18s40 | 18s41 | 23s38 | 14s35 | 3n39 |
| M 2 | 17 56 | 17 59 | 0s11 | 7 32 | 1 39 | 4 24 | 0 40 | 27 31 | 6 31 | 10 10 | 1 22 | 9 58 | 1 47 | 23 42 | 0 21 | 22 12 | 1 13 | 14 13 | 8 39 | 18 40 | 18 42 | 23 37 | 14 35 | 3 39 |
| T 3 | 17 40 | 12 14 | 1 33 | 7 2 | 1 50 | 3 54 | 0 36 | 27 34 | 6 31 | 10 11 | 1 22 | 9 55 | 1 47 | 23 42 | 0 21 | 22 12 | 1 13 | 14 13 | 8 39 | 18 40 | 18 43 | 23 35 | 14 36 | 3 39 |
| W 4 | 17 25 | 5 53 | 2 47 | 6 33 | 2 2 | 3 23 | 0 33 | 27 35 | 6 30 | 10 12 | 1 23 | 9 52 | 1 47 | 23 42 | 0 21 | 22 12 | 1 13 | 14 13 | 8 39 | 18 40 | 18 44 | 23 33 | 14 36 | 3 39 |
| T 5 | 17 9 | 0s37 | 3 49 | 6 5 | 2 13 | 2 53 | 0 29 | 27 37 | 6 29 | 10 13 | 1 23 | 9 50 | 1 47 | 23 42 | 0 21 | 22 12 | 1 13 | 14 13 | 8 39 | 18 40 | 18 45 | 23 31 | 14 37 | 3 38 |
| F 6 | 16 52 | 6 53 | 4 35 | 5 38 | 2 25 | 2 22 | 0 25 | 27 38 | 6 28 | 10 14 | 1 23 | 9 47 | 1 47 | 23 42 | 0 21 | 22 12 | 1 13 | 14 13 | 8 39 | 18 40 | 18 45 | 23 29 | 14 37 | 3 38 |
| S 7 | 16 36 | 12 38 | 5 5 | 5 13 | 2 36 | 1 52 | 0 22 | 27 39 | 6 27 | 10 14 | 1 23 | 9 44 | 1 47 | 23 42 | 0 21 | 22 12 | 1 13 | 14 13 | 8 39 | 18 40 | 18 46 | 23 28 | 14 38 | 3 38 |
| S 8 | 16 19 | 17 37 | 5 17 | 4 49 | 2 47 | 1 21 | 0 18 | 27 40 | 6 26 | 10 15 | 1 24 | 9 42 | 1 47 | 23 42 | 0 21 | 22 12 | 1 13 | 14 13 | 8 39 | 18 40 | 18 47 | 23 26 | 14 38 | 3 38 |
| M 9 | 16 2 | 21 41 | 5 13 | 4 27 | 2 59 | 0 50 | 0 14 | 27 41 | 6 25 | 10 15 | 1 24 | 9 39 | 1 47 | 23 42 | 0 21 | 22 12 | 1 12 | 14 13 | 8 40 | 18 41 | 18 48 | 23 24 | 14 39 | 3 38 |
| T 10 | 15 44 | 24 39 | 4 54 | 4 6 | 3 10 | 0 20 | 0 10 | 27 41 | 6 23 | 10 16 | 1 24 | 9 36 | 1 47 | 23 42 | 0 21 | 22 12 | 1 12 | 14 13 | 8 40 | 18 40 | 18 49 | 23 22 | 14 40 | 3 38 |
| W11 | 15 27 | 26 25 | 4 23 | 3 48 | 3 20 | 0s11 | 0 6 | 27 41 | 6 21 | 10 16 | 1 24 | 9 33 | 1 47 | 23 42 | 0 21 | 22 12 | 1 12 | 14 13 | 8 40 | 18 40 | 18 49 | 23 20 | 14 40 | 3 38 |
| T 12 | 15 9 | 26 57 | 3 40 | 3 31 | 3 31 | 0 42 | 0 1 | 27 40 | 6 19 | 10 17 | 1 25 | 9 31 | 1 47 | 23 42 | 0 21 | 22 12 | 1 12 | 14 13 | 8 40 | 18 40 | 18 50 | 23 18 | 14 41 | 3 37 |
| F 13 | 14 51 | 26 13 | 2 49 | 3 17 | 3 41 | 1 13 | 0s 3 | 27 40 | 6 17 | 10 17 | 1 25 | 9 28 | 1 47 | 23 42 | 0 21 | 22 12 | 1 12 | 14 13 | 8 40 | 18 40 | 18 51 | 23 17 | 14 42 | 3 37 |
| S 14 | 14 33 | 24 19 | 1 50 | 3 5 | 3 50 | 1 43 | 0 7 | 27 39 | 6 15 | 10 17 | 1 25 | 9 25 | 1 47 | 23 42 | 0 21 | 22 12 | 1 12 | 14 13 | 8 40 | 18 39 | 18 52 | 23 15 | 14 42 | 3 37 |
| S 15 | 14 14 | 21 21 | 0 47 | 2 56 | 3 59 | 2 14 | 0 11 | 27 37 | 6 13 | 10 17 | 1 25 | 9 22 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 13 | 8 40 | 18 39 | 18 53 | 23 13 | 14 43 | 3 37 |
| M16 | 13 55 | 17 30 | 0n18 | 2 50 | 4 7 | 2 45 | 0 16 | 27 36 | 6 11 | 10 18 | 1 26 | 9 20 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 40 | 18 39 | 18 53 | 23 11 | 14 44 | 3 37 |
| T 17 | 13 36 | 12 55 | 1 24 | 2 47 | 4 14 | 3 15 | 0 20 | 27 34 | 6 8 | 10 18 | 1 26 | 9 17 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 39 | 18 54 | 23 9 | 14 45 | 3 37 |
| W18 | 13 17 | 7 47 | 2 26 | 2 46 | 4 21 | 3 46 | 0 25 | 27 33 | 6 6 | 10 18 | 1 26 | 9 14 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 40 | 18 55 | 23 7 | 14 45 | 3 37 |
| T 19 | 12 58 | 2 19 | 3 22 | 2 49 | 4 26 | 4 16 | 0 29 | 27 30 | 6 3 | 10 17 | 1 26 | 9 11 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 40 | 18 56 | 23 5 | 14 46 | 3 36 |
| F 20 | 12 38 | 3n19 | 4 9 | 2 55 | 4 30 | 4 47 | 0 34 | 27 28 | 6 0 | 10 17 | 1 27 | 9 9 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 41 | 18 56 | 23 4 | 14 47 | 3 36 |
| S 21 | 12 18 | 8 54 | 4 45 | 3 5 | 4 33 | 5 17 | 0 39 | 27 25 | 5 58 | 10 17 | 1 27 | 9 6 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 42 | 18 57 | 23 2 | 14 48 | 3 36 |
| S 22 | 11 58 | 14 13 | 5 8 | 3 18 | 4 34 | 5 47 | 0 43 | 27 23 | 5 55 | 10 17 | 1 27 | 9 3 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 43 | 18 58 | 23 0 | 14 49 | 3 36 |
| M23 | 11 38 | 19 0 | 5 15 | 3 35 | 4 34 | 6 17 | 0 48 | 27 20 | 5 52 | 10 16 | 1 27 | 9 0 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 43 | 18 59 | 22 58 | 14 50 | 3 36 |
| T 24 | 11 17 | 22 55 | 5 5 | 3 54 | 4 31 | 6 47 | 0 53 | 27 16 | 5 49 | 10 16 | 1 28 | 8 57 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 41 | 18 44 | 19 0 | 22 56 | 14 51 | 3 36 |
| W25 | 10 57 | 25 39 | 4 37 | 4 17 | 4 27 | 7 17 | 0 58 | 27 13 | 5 46 | 10 15 | 1 28 | 8 54 | 1 47 | 23 43 | 0 21 | 22 12 | 1 12 | 14 12 | 8 42 | 18 44 | 19 0 | 22 54 | 14 52 | 3 36 |
| T 26 | 10 36 | 26 52 | 3 53 | 4 43 | 4 21 | 7 47 | 1 3 | 27 9 | 5 43 | 10 15 | 1 28 | 8 52 | 1 47 | 23 43 | 0 21 | 22 13 | 1 12 | 14 12 | 8 42 | 18 43 | 19 1 | 22 52 | 14 52 | 3 36 |
| F 27 | 10 15 | 26 20 | 2 53 | 5 11 | 4 13 | 8 16 | 1 8 | 27 6 | 5 40 | 10 14 | 1 28 | 8 49 | 1 47 | 23 43 | 0 21 | 22 13 | 1 12 | 14 12 | 8 42 | 18 43 | 19 2 | 22 50 | 14 53 | 3 35 |
| S 28 | 9 54 | 24 1 | 1 42 | 5 41 | 4 3 | 8 46 | 1 13 | 27 2 | 5 36 | 10 13 | 1 28 | 8 46 | 1 47 | 23 43 | 0 21 | 22 13 | 1 12 | 14 11 | 8 42 | 18 43 | 19 3 | 22 48 | 14 54 | 3 35 |
| S 29 | 9 32 | 20 4 | 0 23 | 6 13 | 3 51 | 9 15 | 1 18 | 26 57 | 5 33 | 10 13 | 1 29 | 8 43 | 1 47 | 23 43 | 0 21 | 22 13 | 1 12 | 14 11 | 8 42 | 18 43 | 19 3 | 22 46 | 14 56 | 3 35 |
| M30 | 9 11 | 14 50 | 0s58 | 6 45 | 3 38 | 9 44 | 1 23 | 26 53 | 5 30 | 10 12 | 1 29 | 8 40 | 1 47 | 23 43 | 0 21 | 22 13 | 1 12 | 14 11 | 8 42 | 18 43 | 19 4 | 22 44 | 14 57 | 3 35 |
| T 31 | 8n49 | 8n44 | 2s15 | 7n18 | 3s23 | 10s13 | 1s28 | 26s49 | 5s26 | 10n11 | 1s29 | 8n37 | 1n47 | 23s43 | 0s21 | 22s13 | 1n12 | 14n11 | 8s42 | 18s43 | 19s 5 | 22s42 | 14s58 | 3n35 |

Julian Day Number = 2325748.5, Delta T = 39.43 sec
Ecliptic obliquity = 23°29'08, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°55'58, Lahiri = 19°02'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## SEPTEMBER 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 40 8 | 8♍19'55 | 16♍30 | 2°R 5 | 23♎48 | 23♑32 | 0°R11 | 12♍23 | 5°R23 | 25°R19 | 17♊ 4 | 6°R19 | 4♒50 | 22♑34 | 22♏32 | W 1 |
| T 2 | 22 44 5 | 9°18'10 | 0♎53 | 1♍21 | 24°52 | 23°40 | 0♉ 8 | 12°31 | 5♑23 | 25♐19 | 17° 4 | 6♒14 | 4°47 | 22°41 | 22°36 | T 2 |
| F 3 | 22 48 2 | 10°16'26 | 14°54 | 0°44 | 25°56 | 23°50 | 0° 6 | 12°38 | 5°22 | 25°19 | 17° 4 | 6° 9 | 4°43 | 22°47 | 22°40 | F 3 |
| S 4 | 22 51 58 | 11°14'45 | 28°30 | 0°13 | 27° 0 | 24° 0 | 0° 3 | 12°46 | 5°22 | 25°19 | 17° 4 | 6° 4 | 4°40 | 22°54 | 22°44 | S 4 |
| S 5 | 22 55 55 | 12°13'04 | 11♏41 | 29♌51 | 28° 3 | 24°11 | 29♈59 | 12°53 | 5°21 | 25°19 | 17° 5 | 5°59 | 4°37 | 23° 0 | 22°49 | S 5 |
| M 6 | 22 59 51 | 13°11'26 | 24°28 | 29°36 | 29° 6 | 24°22 | 29°57 | 13° 1 | 5°21 | 25°19 | 17° 5 | 5°56 | 4°34 | 23° 7 | 22°53 | M 6 |
| T 7 | 23 3 48 | 14° 9'49 | 6♐54 | 29°D31 | 0♏ 9 | 24°35 | 29°53 | 13° 8 | 5°20 | 25°D19 | 17° 5 | 5°54 | 4°31 | 23°14 | 22°57 | T 7 |
| W 8 | 23 7 44 | 15° 8'13 | 19° 3 | 29°35 | 1°12 | 24°48 | 29°50 | 13°16 | 5°20 | 25°19 | 17° 5 | 5°D54 | 4°28 | 23°20 | 23° 2 | W 8 |
| T 9 | 23 11 41 | 16° 6'40 | 0♑59 | 29°48 | 2°14 | 25° 2 | 29°46 | 13°23 | 5°20 | 25°19 | 17° 6 | 5°55 | 4°24 | 23°27 | 23° 6 | T 9 |
| F 10 | 23 15 37 | 17° 5'07 | 12°49 | 0♍11 | 3°16 | 25°16 | 29°42 | 13°31 | 5°19 | 25°19 | 17° 6 | 5°56 | 4°21 | 23°34 | 23°11 | F 10 |
| S 11 | 23 19 34 | 18° 3'37 | 24°37 | 0°42 | 4°18 | 25°31 | 29°38 | 13°38 | 5°19 | 25°19 | 17° 6 | 5°58 | 4°18 | 23°40 | 23°16 | S 11 |
| S 12 | 23 23 31 | 19° 2'08 | 6♒28 | 1°22 | 5°20 | 25°47 | 29°33 | 13°46 | 5°19 | 25°19 | 17° 6 | 5°R59 | 4°15 | 23°47 | 23°20 | S 12 |
| M13 | 23 27 27 | 20° 0'41 | 18°25 | 2°11 | 6°21 | 26° 3 | 29°29 | 13°53 | 5°19 | 25°19 | 17° 6 | 5°58 | 4°12 | 23°54 | 23°25 | M13 |
| T 14 | 23 31 24 | 20°59'16 | 0♓32 | 3° 8 | 7°22 | 26°20 | 29°24 | 14° 1 | 5°D19 | 25°19 | 17° 6 | 5°55 | 4° 8 | 24° 0 | 23°30 | T 14 |
| W15 | 23 35 20 | 21°57'52 | 12°52 | 4°11 | 8°23 | 26°38 | 29°19 | 14° 8 | 5°19 | 25°20 | 17° 6 | 5°50 | 4° 5 | 24° 7 | 23°35 | W15 |
| T 16 | 23 39 17 | 22°56'31 | 25°25 | 5°22 | 9°23 | 26°56 | 29°14 | 14°16 | 5°19 | 25°20 | 17° 6 | 5°43 | 4° 2 | 24°14 | 23°40 | T 16 |
| F 17 | 23 43 13 | 23°55'11 | 8♈12 | 6°39 | 10°23 | 27°15 | 29° 9 | 14°23 | 5°19 | 25°20 | 17°R 6 | 5°35 | 3°59 | 24°20 | 23°45 | F 17 |
| S 18 | 23 47 10 | 24°53'53 | 21°13 | 8° 1 | 11°23 | 27°35 | 29° 3 | 14°31 | 5°19 | 25°21 | 17° 6 | 5°26 | 3°56 | 24°27 | 23°50 | S 18 |
| S 19 | 23 51 6 | 25°52'38 | 4♉27 | 9°28 | 12°22 | 27°55 | 28°58 | 14°38 | 5°19 | 25°21 | 17° 6 | 5°18 | 3°53 | 24°33 | 23°56 | S 19 |
| M20 | 23 55 3 | 26°51'25 | 17°53 | 10°59 | 13°21 | 28°15 | 28°52 | 14°46 | 5°20 | 25°21 | 17° 6 | 5°11 | 3°49 | 24°40 | 24° 1 | M20 |
| T 21 | 23 59 0 | 27°50'14 | 1♊31 | 12°34 | 14°19 | 28°36 | 28°46 | 14°53 | 5°20 | 25°22 | 17° 6 | 5° 6 | 3°46 | 24°47 | 24° 6 | T 21 |
| W22 | 0 2 56 | 28°49'05 | 15°18 | 14°12 | 15°17 | 28°58 | 28°40 | 15° 1 | 5°20 | 25°22 | 17° 6 | 5° 3 | 3°43 | 24°53 | 24°12 | W22 |
| T 23 | 0 6 53 | 29°47'59 | 29°15 | 15°52 | 16°15 | 29°20 | 28°34 | 15° 8 | 5°21 | 25°23 | 17° 6 | 5°D 2 | 3°40 | 25° 0 | 24°17 | T 23 |
| F 24 | 0 10 49 | 0♎46'55 | 13♋21 | 17°35 | 17°12 | 29°43 | 28°28 | 15°15 | 5°21 | 25°23 | 17° 6 | 5° 2 | 3°37 | 25° 7 | 24°23 | F 24 |
| S 25 | 0 14 46 | 1°45'54 | 27°35 | 19°19 | 18° 9 | 0♒ 6 | 28°22 | 15°23 | 5°22 | 25°24 | 17° 6 | 5°R 3 | 3°34 | 25°13 | 24°29 | S 25 |
| S 26 | 0 18 42 | 2°44'54 | 11♌56 | 21° 4 | 19° 5 | 0°29 | 28°15 | 15°30 | 5°22 | 25°25 | 17° 5 | 5° 3 | 3°30 | 25°20 | 24°34 | S 26 |
| M27 | 0 22 39 | 3°43'57 | 26°20 | 22°51 | 20° 1 | 0°54 | 28° 8 | 15°37 | 5°23 | 25°25 | 17° 5 | 5° 1 | 3°27 | 25°27 | 24°40 | M27 |
| T 28 | 0 26 35 | 4°43'02 | 10♍44 | 24°37 | 20°56 | 1°18 | 28° 2 | 15°45 | 5°24 | 25°26 | 17° 5 | 4°57 | 3°24 | 25°33 | 24°46 | T 28 |
| W29 | 0 30 32 | 5°42'10 | 25° 2 | 26°25 | 21°51 | 1°43 | 27°55 | 15°52 | 5°24 | 25°27 | 17° 5 | 4°50 | 3°21 | 25°40 | 24°52 | W29 |
| T 30 | 0 34 29 | 6♎41'19 | 9♎ 9 | 28♍12 | 22♏45 | 2♒ 9 | 27♈48 | 15♍59 | 5♑25 | 25♐27 | 17♊ 4 | 4♒41 | 3♒18 | 25♑47 | 24♏58 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 8n28 | 2n14 | 3s22 | 7n51 | 3s 7 | 10s42 | 1s33 | 26s44 | 5s23 | 10n10 | 1s29 | 8n35 | 1n47 | 23s43 | 0s21 | 22s13 | 1n11 | 14n11 | 8s43 | 18s44 | 19s 6 | 22s40 | 14s59 | 3n35 | W 1 |
| T 2 | 8 6 | 4s15 | 4 15 | 8 23 | 2 49 | 11 10 | 1 38 | 26 39 | 5 20 | 10 9 | 1 30 | 8 32 | 1 47 | 23 43 | 0 21 | 22 13 | 1 11 | 14 11 | 8 43 | 18 45 | 19 6 | 22 38 | 15 0 | 3 35 | T 2 |
| F 3 | 7 44 | 10 21 | 4 51 | 8 53 | 2 31 | 11 39 | 1 43 | 26 34 | 5 16 | 10 8 | 1 30 | 8 29 | 1 47 | 23 43 | 0 21 | 22 13 | 1 11 | 14 11 | 8 43 | 18 46 | 19 7 | 22 37 | 15 1 | 3 35 | F 3 |
| S 4 | 7 22 | 15 46 | 5 9 | 9 22 | 2 12 | 12 7 | 1 49 | 26 29 | 5 13 | 10 6 | 1 30 | 8 26 | 1 47 | 23 43 | 0 21 | 22 13 | 1 11 | 14 11 | 8 43 | 18 48 | 19 8 | 22 35 | 15 2 | 3 34 | S 4 |
| S 5 | 6 59 | 20 17 | 5 10 | 9 48 | 1 52 | 12 34 | 1 54 | 26 23 | 5 9 | 10 5 | 1 30 | 8 23 | 1 47 | 23 43 | 0 21 | 22 13 | 1 11 | 14 11 | 8 43 | 18 49 | 19 9 | 22 33 | 15 3 | 3 34 | S 5 |
| M 6 | 6 37 | 23 42 | 4 56 | 10 11 | 1 33 | 13 2 | 1 59 | 26 18 | 5 6 | 10 4 | 1 30 | 8 20 | 1 47 | 23 43 | 0 21 | 22 13 | 1 11 | 14 10 | 8 43 | 18 50 | 19 9 | 22 31 | 15 4 | 3 34 | M 6 |
| T 7 | 6 15 | 25 54 | 4 27 | 10 31 | 1 14 | 13 29 | 2 4 | 26 12 | 5 2 | 10 2 | 1 31 | 8 17 | 1 47 | 23 43 | 0 21 | 22 13 | 1 11 | 14 10 | 8 43 | 18 50 | 19 10 | 22 29 | 15 6 | 3 34 | T 7 |
| W 8 | 5 52 | 26 49 | 3 48 | 10 47 | 0 55 | 13 56 | 2 10 | 26 6 | 4 59 | 10 1 | 1 31 | 8 15 | 1 47 | 23 43 | 0 21 | 22 13 | 1 11 | 14 10 | 8 44 | 18 50 | 19 11 | 22 27 | 15 7 | 3 34 | W 8 |
| T 9 | 5 29 | 26 28 | 2 59 | 10 59 | 0 37 | 14 23 | 2 15 | 26 0 | 4 55 | 9 59 | 1 31 | 8 12 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 10 | 8 44 | 18 50 | 19 12 | 22 25 | 15 8 | 3 34 | T 9 |
| F 10 | 5 7 | 24 54 | 2 3 | 11 8 | 0 19 | 14 49 | 2 20 | 25 54 | 4 52 | 9 58 | 1 31 | 8 9 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 10 | 8 44 | 18 49 | 19 13 | 22 23 | 15 9 | 3 34 | F 10 |
| S 11 | 4 44 | 22 15 | 1 1 | 11 13 | 0 2 | 15 16 | 2 25 | 25 48 | 4 48 | 9 56 | 1 31 | 8 6 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 10 | 8 44 | 18 49 | 19 13 | 22 21 | 15 11 | 3 34 | S 11 |
| S 12 | 4 21 | 18 39 | 0n 3 | 11 13 | 0n13 | 15 41 | 2 31 | 25 41 | 4 45 | 9 55 | 1 31 | 8 3 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 10 | 8 44 | 18 49 | 19 14 | 22 19 | 15 12 | 3 34 | S 12 |
| M13 | 3 58 | 14 16 | 1 7 | 11 9 | 0 28 | 16 7 | 2 36 | 25 35 | 4 41 | 9 53 | 1 32 | 8 0 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 9 | 8 44 | 18 49 | 19 15 | 22 17 | 15 13 | 3 33 | M13 |
| T 14 | 3 35 | 9 17 | 2 9 | 11 1 | 0 42 | 16 32 | 2 41 | 25 28 | 4 38 | 9 51 | 1 32 | 7 58 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 9 | 8 45 | 18 50 | 19 16 | 22 15 | 15 14 | 3 33 | T 14 |
| W15 | 3 12 | 3 53 | 3 6 | 10 50 | 0 54 | 16 57 | 2 47 | 25 21 | 4 34 | 9 49 | 1 32 | 7 55 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 9 | 8 45 | 18 51 | 19 16 | 22 13 | 15 16 | 3 33 | W15 |
| T 16 | 2 48 | 1n46 | 3 55 | 10 34 | 1 5 | 17 22 | 2 52 | 25 14 | 4 31 | 9 47 | 1 32 | 7 52 | 1 48 | 23 43 | 0 21 | 22 13 | 1 11 | 14 9 | 8 45 | 18 53 | 19 17 | 22 11 | 15 17 | 3 33 | T 16 |
| F 17 | 2 25 | 7 26 | 4 33 | 10 15 | 1 15 | 17 46 | 2 57 | 25 7 | 4 27 | 9 45 | 1 32 | 7 49 | 1 48 | 23 43 | 0 21 | 22 14 | 1 11 | 14 9 | 8 45 | 18 55 | 19 18 | 22 9 | 15 18 | 3 33 | F 17 |
| S 18 | 2 2 | 12 53 | 4 57 | 9 52 | 1 23 | 18 10 | 3 2 | 24 59 | 4 24 | 9 43 | 1 32 | 7 46 | 1 48 | 23 43 | 0 21 | 22 14 | 1 11 | 14 9 | 8 45 | 18 57 | 19 19 | 22 6 | 15 20 | 3 33 | S 18 |
| S 19 | 1 39 | 17 50 | 5 7 | 9 26 | 1 31 | 18 33 | 3 7 | 24 52 | 4 20 | 9 41 | 1 33 | 7 43 | 1 48 | 23 43 | 0 21 | 22 14 | 1 11 | 14 9 | 8 45 | 18 59 | 19 19 | 22 4 | 15 21 | 3 33 | S 19 |
| M20 | 1 15 | 21 59 | 4 59 | 8 57 | 1 37 | 18 56 | 3 13 | 24 44 | 4 17 | 9 39 | 1 33 | 7 41 | 1 48 | 23 43 | 0 20 | 22 14 | 1 11 | 14 8 | 8 45 | 19 1 | 19 20 | 22 2 | 15 22 | 3 33 | M20 |
| T 21 | 0 52 | 24 59 | 4 35 | 8 26 | 1 42 | 19 19 | 3 18 | 24 36 | 4 13 | 9 37 | 1 33 | 7 38 | 1 48 | 23 43 | 0 20 | 22 14 | 1 11 | 14 8 | 8 46 | 19 2 | 19 21 | 22 0 | 15 24 | 3 33 | T 21 |
| W22 | 0 28 | 26 34 | 3 55 | 7 52 | 1 46 | 19 41 | 3 23 | 24 29 | 4 10 | 9 34 | 1 33 | 7 35 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 8 | 8 46 | 19 3 | 19 22 | 21 58 | 15 25 | 3 33 | W22 |
| T 23 | 0 5 | 26 29 | 3 0 | 7 16 | 1 50 | 20 3 | 3 28 | 24 21 | 4 6 | 9 32 | 1 33 | 7 32 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 8 | 8 46 | 19 3 | 19 22 | 21 56 | 15 27 | 3 33 | T 23 |
| F 24 | 0s19 | 24 42 | 1 54 | 6 38 | 1 52 | 20 24 | 3 33 | 24 12 | 4 3 | 9 30 | 1 33 | 7 30 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 8 | 8 46 | 19 3 | 19 23 | 21 54 | 15 28 | 3 33 | F 24 |
| S 25 | 0 42 | 21 20 | 0 40 | 5 58 | 1 53 | 20 45 | 3 38 | 24 4 | 4 0 | 9 27 | 1 33 | 7 27 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 8 | 8 46 | 19 2 | 19 24 | 21 52 | 15 29 | 3 32 | S 25 |
| S 26 | 1 6 | 16 40 | 0s37 | 5 17 | 1 53 | 21 6 | 3 43 | 23 56 | 3 56 | 9 25 | 1 33 | 7 24 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 8 | 8 46 | 19 2 | 19 24 | 21 50 | 15 31 | 3 32 | S 26 |
| M27 | 1 29 | 11 1 | 1 51 | 4 35 | 1 53 | 21 26 | 3 48 | 23 47 | 3 53 | 9 23 | 1 34 | 7 21 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 7 | 8 46 | 19 3 | 19 25 | 21 48 | 15 32 | 3 32 | M27 |
| T 28 | 1 53 | 4 48 | 2 59 | 3 51 | 1 52 | 21 46 | 3 53 | 23 38 | 3 50 | 9 20 | 1 34 | 7 19 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 7 | 8 47 | 19 4 | 19 26 | 21 46 | 15 34 | 3 32 | T 28 |
| W29 | 2 16 | 1s36 | 3 54 | 3 7 | 1 50 | 22 5 | 3 57 | 23 29 | 3 46 | 9 18 | 1 34 | 7 16 | 1 49 | 23 43 | 0 20 | 22 14 | 1 10 | 14 7 | 8 47 | 19 6 | 19 27 | 21 44 | 15 35 | 3 32 | W29 |
| T 30 | 2s40 | 7s50 | 4s34 | 2n22 | 1n48 | 22s24 | 4s 2 | 23s20 | 3s43 | 9n15 | 1s34 | 7n13 | 1n49 | 23s43 | 0s20 | 22s14 | 1n10 | 14n 7 | 8s47 | 19s 8 | 19s27 | 21s42 | 15s37 | 3n32 | T 30 |

Julian Day Number = 2325779.5, Delta T = 39.37 sec
Ecliptic obliquity = 23°29'08, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'03, Lahiri = 19°03'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## OCTOBER 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 38 25 | 7♎40'31 | 23♎ 0 | 29♍59 | 23♏39 | 2♒34 | 27°R41 | 16♍ 6 | 5♑26 | 25♐28 | 17°R 4 | 4°R30 | 3♒14 | 25♑53 | 25♏ 4 | F 1 |
| S 2 | 0 42 22 | 8°39'44 | 6♏31 | 1♎46 | 24°32 | 3° 1 | 27♈33 | 16°13 | 5°27 | 25°29 | 17♊ 4 | 4♒20 | 3°11 | 26° 0 | 25°10 | S 2 |
| S 3 | 0 46 18 | 9°38'59 | 19°39 | 3°33 | 25°25 | 3°28 | 27°26 | 16°21 | 5°28 | 25°30 | 17° 3 | 4°10 | 3° 8 | 26° 7 | 25°16 | S 3 |
| M 4 | 0 50 15 | 10°38'17 | 2♐26 | 5°20 | 26°17 | 3°55 | 27°18 | 16°28 | 5°29 | 25°31 | 17° 3 | 4° 2 | 3° 5 | 26°13 | 25°22 | M 4 |
| T 5 | 0 54 11 | 11°37'36 | 14°52 | 7° 6 | 27° 8 | 4°22 | 27°11 | 16°35 | 5°30 | 25°32 | 17° 3 | 3°56 | 3° 2 | 26°20 | 25°28 | T 5 |
| W 6 | 0 58 8 | 12°36'57 | 27° 1 | 8°51 | 27°59 | 4°50 | 27° 3 | 16°42 | 5°31 | 25°32 | 17° 2 | 3°53 | 2°59 | 26°26 | 25°35 | W 6 |
| T 7 | 1 2 4 | 13°36'20 | 8♑58 | 10°36 | 28°49 | 5°19 | 26°56 | 16°49 | 5°32 | 25°33 | 17° 2 | 3°D51 | 2°55 | 26°33 | 25°41 | T 7 |
| F 8 | 1 6 1 | 14°35'45 | 20°47 | 12°20 | 29°38 | 5°47 | 26°48 | 16°56 | 5°33 | 25°34 | 17° 1 | 3°51 | 2°52 | 26°40 | 25°48 | F 8 |
| S 9 | 1 9 58 | 15°35'11 | 2♒35 | 14° 4 | 0♐26 | 6°16 | 26°40 | 17° 3 | 5°34 | 25°35 | 17° 1 | 3°R52 | 2°49 | 26°46 | 25°54 | S 9 |
| S 10 | 1 13 54 | 16°34'39 | 14°27 | 15°47 | 1°14 | 6°46 | 26°32 | 17°10 | 5°36 | 25°37 | 17° 1 | 3°51 | 2°46 | 26°53 | 26° 1 | S 10 |
| M11 | 1 17 51 | 17°34'09 | 26°28 | 17°29 | 2° 0 | 7°16 | 26°24 | 17°17 | 5°37 | 25°38 | 17° 0 | 3°49 | 2°43 | 27° 0 | 26° 7 | M11 |
| T 12 | 1 21 47 | 18°33'41 | 8♓42 | 19°11 | 2°46 | 7°46 | 26°16 | 17°23 | 5°38 | 25°39 | 17° 0 | 3°44 | 2°40 | 27° 6 | 26°14 | T 12 |
| W13 | 1 25 44 | 19°33'14 | 21°12 | 20°52 | 3°31 | 8°16 | 26° 8 | 17°30 | 5°40 | 25°40 | 16°59 | 3°37 | 2°36 | 27°13 | 26°20 | W13 |
| T 14 | 1 29 40 | 20°32'50 | 4♈ 1 | 22°32 | 4°15 | 8°47 | 26° 0 | 17°37 | 5°41 | 25°41 | 16°58 | 3°27 | 2°33 | 27°20 | 26°27 | T 14 |
| F 15 | 1 33 37 | 21°32'27 | 17° 8 | 24°12 | 4°58 | 9°18 | 25°52 | 17°44 | 5°43 | 25°42 | 16°58 | 3°15 | 2°30 | 27°26 | 26°34 | F 15 |
| S 16 | 1 37 33 | 22°32'07 | 0♉33 | 25°51 | 5°40 | 9°49 | 25°44 | 17°50 | 5°44 | 25°43 | 16°57 | 3° 2 | 2°27 | 27°33 | 26°40 | S 16 |
| S 17 | 1 41 30 | 23°31'48 | 14°13 | 27°29 | 6°21 | 10°21 | 25°36 | 17°57 | 5°46 | 25°45 | 16°57 | 2°50 | 2°24 | 27°40 | 26°47 | S 17 |
| M18 | 1 45 26 | 24°31'32 | 28° 4 | 29° 7 | 7° 1 | 10°52 | 25°28 | 18° 4 | 5°47 | 25°46 | 16°56 | 2°40 | 2°20 | 27°46 | 26°54 | M18 |
| T 19 | 1 49 23 | 25°31'18 | 12♊ 3 | 0♏44 | 7°40 | 11°24 | 25°20 | 18°10 | 5°49 | 25°47 | 16°55 | 2°31 | 2°17 | 27°53 | 27° 1 | T 19 |
| W20 | 1 53 20 | 26°31'06 | 26° 6 | 2°21 | 8°18 | 11°57 | 25°11 | 18°17 | 5°51 | 25°49 | 16°55 | 2°26 | 2°14 | 28° 0 | 27° 8 | W20 |
| T 21 | 1 57 16 | 27°30'56 | 10♋11 | 3°57 | 8°54 | 12°29 | 25° 3 | 18°23 | 5°53 | 25°50 | 16°54 | 2°24 | 2°11 | 28° 6 | 27°15 | T 21 |
| F 22 | 2 1 13 | 28°30'49 | 24°17 | 5°33 | 9°29 | 13° 2 | 24°55 | 18°29 | 5°55 | 25°51 | 16°53 | 2°23 | 2° 8 | 28°13 | 27°22 | F 22 |
| S 23 | 2 5 9 | 29°30'44 | 8♌22 | 7° 8 | 10° 3 | 13°35 | 24°47 | 18°36 | 5°56 | 25°53 | 16°53 | 2°23 | 2° 5 | 28°19 | 27°29 | S 23 |
| S 24 | 2 9 6 | 0♏30'41 | 22°26 | 8°42 | 10°35 | 14° 9 | 24°39 | 18°42 | 5°58 | 25°54 | 16°52 | 2°22 | 2° 1 | 28°26 | 27°36 | S 24 |
| M25 | 2 13 2 | 1°30'40 | 6♍28 | 10°16 | 11° 6 | 14°42 | 24°31 | 18°48 | 6° 0 | 25°56 | 16°51 | 2°19 | 1°58 | 28°33 | 27°43 | M25 |
| T 26 | 2 16 59 | 2°30'41 | 20°26 | 11°50 | 11°35 | 15°16 | 24°23 | 18°54 | 6° 2 | 25°57 | 16°50 | 2°14 | 1°55 | 28°39 | 27°50 | T 26 |
| W27 | 2 20 55 | 3°30'45 | 4♎18 | 13°23 | 12° 3 | 15°50 | 24°15 | 19° 0 | 6° 4 | 25°59 | 16°49 | 2° 5 | 1°52 | 28°46 | 27°57 | W27 |
| T 28 | 2 24 52 | 4°30'50 | 18° 0 | 14°56 | 12°29 | 16°25 | 24° 7 | 19° 7 | 6° 6 | 26° 0 | 16°49 | 1°54 | 1°49 | 28°53 | 28° 5 | T 28 |
| F 29 | 2 28 49 | 5°30'58 | 1♏30 | 16°28 | 12°54 | 16°59 | 23°59 | 19°13 | 6° 9 | 26° 2 | 16°48 | 1°41 | 1°45 | 28°59 | 28°12 | F 29 |
| S 30 | 2 32 45 | 6°31'07 | 14°45 | 18° 0 | 13°16 | 17°34 | 23°52 | 19°18 | 6°11 | 26° 4 | 16°47 | 1°28 | 1°42 | 29° 6 | 28°19 | S 30 |
| S 31 | 2 36 42 | 7♏31'18 | 27♏43 | 19♏32 | 13♐37 | 18♒ 9 | 23♈44 | 19♍24 | 6♑13 | 26♐ 5 | 16♊46 | 1♒15 | 1♒39 | 29♑13 | 28♏26 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3s 3 | 13s33 | 4s57 | 1n37 | 1n45 | 22s42 | 4s 7 | 23s11 | 3s40 | 9n12 | 1s34 | 7n10 | 1n49 | 23s43 | 0s20 | 22s14 | 1n10 | 14n 7 | 8s47 | 19s10 | 19s28 | 21s40 | 15s38 | 3n32 |
| S 2 | 3 26 | 18 29 | 5 3 | 0 51 | 1 42 | 23 0 | 4 11 | 23 2 | 3 36 | 9 10 | 1 34 | 7 8 | 1 50 | 23 43 | 0 20 | 22 15 | 1 10 | 14 7 | 8 47 | 19 13 | 19 29 | 21 37 | 15 40 | 3 32 |
| S 3 | 3 50 | 22 22 | 4 53 | 0 5 | 1 38 | 23 17 | 4 16 | 22 52 | 3 33 | 9 7 | 1 34 | 7 5 | 1 50 | 23 43 | 0 20 | 22 15 | 1 10 | 14 6 | 8 47 | 19 15 | 19 30 | 21 35 | 15 41 | 3 32 |
| M 4 | 4 13 | 25 3 | 4 27 | 0s41 | 1 34 | 23 34 | 4 20 | 22 43 | 3 30 | 9 4 | 1 34 | 7 2 | 1 50 | 23 43 | 0 20 | 22 15 | 1 10 | 14 6 | 8 47 | 19 17 | 19 30 | 21 33 | 15 43 | 3 32 |
| T 5 | 4 36 | 26 26 | 3 50 | 1 27 | 1 30 | 23 50 | 4 24 | 22 33 | 3 27 | 9 1 | 1 34 | 7 0 | 1 50 | 23 43 | 0 20 | 22 15 | 1 10 | 14 6 | 8 48 | 19 18 | 19 31 | 21 31 | 15 44 | 3 32 |
| W 6 | 5 0 | 26 30 | 3 3 | 2 13 | 1 25 | 24 6 | 4 28 | 22 23 | 3 24 | 8 59 | 1 34 | 6 57 | 1 50 | 23 43 | 0 20 | 22 15 | 1 10 | 14 6 | 8 48 | 19 19 | 19 32 | 21 29 | 15 45 | 3 32 |
| T 7 | 5 23 | 25 19 | 2 9 | 2 59 | 1 20 | 24 21 | 4 32 | 22 13 | 3 21 | 8 56 | 1 34 | 6 54 | 1 50 | 23 42 | 0 20 | 22 15 | 1 10 | 14 6 | 8 48 | 19 20 | 19 33 | 21 27 | 15 47 | 3 32 |
| F 8 | 5 46 | 23 1 | 1 9 | 3 45 | 1 14 | 24 36 | 4 36 | 22 3 | 3 17 | 8 53 | 1 34 | 6 52 | 1 50 | 23 42 | 0 20 | 22 15 | 1 10 | 14 6 | 8 48 | 19 20 | 19 33 | 21 25 | 15 49 | 3 32 |
| S 9 | 6 9 | 19 44 | 0 7 | 4 30 | 1 9 | 24 51 | 4 40 | 21 53 | 3 14 | 8 50 | 1 34 | 6 49 | 1 51 | 23 42 | 0 20 | 22 15 | 1 10 | 14 5 | 8 48 | 19 19 | 19 34 | 21 23 | 15 50 | 3 32 |
| S 10 | 6 32 | 15 38 | 0n56 | 5 15 | 1 3 | 25 4 | 4 44 | 21 42 | 3 11 | 8 47 | 1 34 | 6 47 | 1 51 | 23 42 | 0 20 | 22 15 | 1 10 | 14 5 | 8 48 | 19 20 | 19 35 | 21 20 | 15 52 | 3 32 |
| M11 | 6 55 | 10 53 | 1 57 | 6 0 | 0 57 | 25 18 | 4 47 | 21 32 | 3 8 | 8 45 | 1 34 | 6 44 | 1 51 | 23 42 | 0 20 | 22 15 | 1 10 | 14 5 | 8 48 | 19 20 | 19 35 | 21 18 | 15 53 | 3 32 |
| T 12 | 7 17 | 5 38 | 2 54 | 6 45 | 0 51 | 25 30 | 4 51 | 21 21 | 3 5 | 8 42 | 1 34 | 6 42 | 1 51 | 23 42 | 0 20 | 22 15 | 1 10 | 14 5 | 8 48 | 19 21 | 19 36 | 21 16 | 15 55 | 3 32 |
| W13 | 7 40 | 0 5 | 3 43 | 7 29 | 0 44 | 25 43 | 4 54 | 21 10 | 3 2 | 8 39 | 1 34 | 6 39 | 1 51 | 23 42 | 0 20 | 22 15 | 1 9 | 14 5 | 8 49 | 19 23 | 19 37 | 21 14 | 15 56 | 3 32 |
| T 14 | 8 2 | 5n37 | 4 22 | 8 12 | 0 38 | 25 54 | 4 57 | 20 59 | 2 59 | 8 36 | 1 34 | 6 37 | 1 51 | 23 42 | 0 20 | 22 15 | 1 9 | 14 4 | 8 49 | 19 25 | 19 38 | 21 12 | 15 58 | 3 32 |
| F 15 | 8 25 | 11 11 | 4 49 | 8 55 | 0 31 | 26 5 | 5 0 | 20 48 | 2 56 | 8 33 | 1 34 | 6 34 | 1 51 | 23 42 | 0 20 | 22 16 | 1 9 | 14 4 | 8 49 | 19 28 | 19 38 | 21 10 | 15 59 | 3 32 |
| S 16 | 8 47 | 16 22 | 5 0 | 9 37 | 0 25 | 26 16 | 5 3 | 20 37 | 2 54 | 8 30 | 1 34 | 6 32 | 1 52 | 23 42 | 0 20 | 22 16 | 1 9 | 14 4 | 8 49 | 19 31 | 19 39 | 21 7 | 16 1 | 3 32 |
| S 17 | 9 9 | 20 49 | 4 55 | 10 19 | 0 18 | 26 26 | 5 6 | 20 25 | 2 51 | 8 27 | 1 34 | 6 29 | 1 52 | 23 42 | 0 20 | 22 16 | 1 9 | 14 4 | 8 49 | 19 34 | 19 40 | 21 5 | 16 2 | 3 32 |
| M18 | 9 31 | 24 11 | 4 32 | 11 0 | 0 11 | 26 35 | 5 8 | 20 14 | 2 48 | 8 24 | 1 34 | 6 27 | 1 52 | 23 42 | 0 20 | 22 16 | 1 9 | 14 4 | 8 49 | 19 36 | 19 41 | 21 3 | 16 4 | 3 32 |
| T 19 | 9 53 | 26 7 | 3 53 | 11 41 | 0 5 | 26 44 | 5 10 | 20 2 | 2 45 | 8 21 | 1 34 | 6 24 | 1 52 | 23 42 | 0 20 | 22 16 | 1 9 | 14 4 | 8 49 | 19 38 | 19 41 | 21 1 | 16 5 | 3 32 |
| W20 | 10 15 | 26 25 | 2 59 | 12 21 | 0s 2 | 26 52 | 5 13 | 19 50 | 2 42 | 8 18 | 1 34 | 6 22 | 1 52 | 23 42 | 0 20 | 22 16 | 1 9 | 14 3 | 8 49 | 19 39 | 19 42 | 20 59 | 16 7 | 3 32 |
| T 21 | 10 37 | 25 0 | 1 54 | 13 0 | 0 9 | 27 0 | 5 14 | 19 38 | 2 39 | 8 16 | 1 34 | 6 20 | 1 52 | 23 41 | 0 20 | 22 16 | 1 9 | 14 3 | 8 49 | 19 40 | 19 43 | 20 56 | 16 8 | 3 32 |
| F 22 | 10 58 | 22 0 | 0 43 | 13 39 | 0 16 | 27 7 | 5 16 | 19 26 | 2 37 | 8 13 | 1 34 | 6 17 | 1 53 | 23 41 | 0 20 | 22 16 | 1 9 | 14 3 | 8 50 | 19 40 | 19 43 | 20 54 | 16 10 | 3 32 |
| S 23 | 11 19 | 17 42 | 0s32 | 14 16 | 0 22 | 27 14 | 5 17 | 19 14 | 2 34 | 8 10 | 1 34 | 6 15 | 1 53 | 23 41 | 0 20 | 22 16 | 1 9 | 14 3 | 8 50 | 19 40 | 19 44 | 20 52 | 16 11 | 3 32 |
| S 24 | 11 40 | 12 25 | 1 44 | 14 53 | 0 29 | 27 20 | 5 18 | 19 2 | 2 31 | 8 7 | 1 34 | 6 13 | 1 53 | 23 41 | 0 20 | 22 16 | 1 9 | 14 3 | 8 50 | 19 40 | 19 45 | 20 50 | 16 13 | 3 32 |
| M25 | 12 1 | 6 32 | 2 50 | 15 30 | 0 36 | 27 25 | 5 19 | 18 49 | 2 29 | 8 4 | 1 34 | 6 10 | 1 53 | 23 41 | 0 20 | 22 16 | 1 9 | 14 3 | 8 50 | 19 41 | 19 46 | 20 48 | 16 14 | 3 32 |
| T 26 | 12 22 | 0 21 | 3 45 | 16 5 | 0 42 | 27 30 | 5 20 | 18 37 | 2 26 | 8 1 | 1 34 | 6 8 | 1 53 | 23 41 | 0 20 | 22 16 | 1 9 | 14 2 | 8 50 | 19 42 | 19 46 | 20 45 | 16 16 | 3 32 |
| W27 | 12 43 | 5s47 | 4 26 | 16 40 | 0 49 | 27 34 | 5 20 | 18 24 | 2 23 | 7 58 | 1 33 | 6 6 | 1 53 | 23 41 | 0 20 | 22 17 | 1 9 | 14 2 | 8 50 | 19 44 | 19 47 | 20 43 | 16 17 | 3 33 |
| T 28 | 13 3 | 11 34 | 4 52 | 17 14 | 0 55 | 27 37 | 5 20 | 18 11 | 2 21 | 7 56 | 1 33 | 6 4 | 1 54 | 23 41 | 0 20 | 22 17 | 1 9 | 14 2 | 8 50 | 19 47 | 19 48 | 20 41 | 16 19 | 3 33 |
| F 29 | 13 23 | 16 42 | 5 0 | 17 47 | 1 2 | 27 40 | 5 20 | 17 58 | 2 18 | 7 53 | 1 33 | 6 1 | 1 54 | 23 41 | 0 20 | 22 17 | 1 9 | 14 2 | 8 50 | 19 49 | 19 48 | 20 39 | 16 20 | 3 33 |
| S 30 | 13 43 | 20 57 | 4 52 | 18 19 | 1 8 | 27 42 | 5 19 | 17 45 | 2 15 | 7 50 | 1 33 | 5 59 | 1 54 | 23 41 | 0 20 | 22 17 | 1 9 | 14 2 | 8 50 | 19 52 | 19 49 | 20 36 | 16 22 | 3 33 |
| S 31 | 14s 3 | 24s 3 | 4s29 | 18s50 | 1s14 | 27s44 | 5s18 | 17s32 | 2s13 | 7n47 | 1s33 | 5n57 | 1n54 | 23s40 | 0s20 | 22s17 | 1n 9 | 14n 2 | 8s50 | 19s55 | 19s50 | 20s34 | 16s23 | 3n33 |

Julian Day Number = 2325809.5, Delta T = 39.31 sec
Ecliptic obliquity = 23°29'08, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'07, Lahiri = 19°03'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## NOVEMBER 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 40 38 | 8♏31'31 | 10♐22 | 21♏ 3 | 13♐56 | 18♒44 | 23°R36 | 19♍30 | 6♑15 | 26♐ 7 | 16°R45 | 1°R 4 | 1♒36 | 29♑19 | 28♏34 | M 1 |
| T 2 | 2 44 35 | 9°31'46 | 22°44 | 22°33 | 14°13 | 19°19 | 23♈29 | 19°36 | 6°18 | 26° 9 | 16♊44 | 0♒56 | 1°33 | 29°26 | 28°41 | T 2 |
| W 3 | 2 48 31 | 10°32'02 | 4♑51 | 24° 4 | 14°28 | 19°55 | 23°21 | 19°42 | 6°20 | 26°10 | 16°43 | 0°51 | 1°30 | 29°33 | 28°48 | W 3 |
| T 4 | 2 52 28 | 11°32'20 | 16°47 | 25°33 | 14°41 | 20°30 | 23°14 | 19°47 | 6°22 | 26°12 | 16°43 | 0°49 | 1°26 | 29°39 | 28°56 | T 4 |
| F 5 | 2 56 24 | 12°32'39 | 28°36 | 27° 3 | 14°52 | 21° 6 | 23° 7 | 19°53 | 6°25 | 26°14 | 16°42 | 0°D48 | 1°23 | 29°46 | 29° 3 | F 5 |
| S 6 | 3 0 21 | 13°33'00 | 10♒23 | 28°32 | 15° 1 | 21°42 | 23° 0 | 19°58 | 6°27 | 26°16 | 16°41 | 0°R48 | 1°20 | 29°52 | 29°11 | S 6 |
| S 7 | 3 4 18 | 14°33'22 | 22°14 | 0♐ 0 | 15° 7 | 22°18 | 22°53 | 20° 4 | 6°30 | 26°17 | 16°40 | 0°48 | 1°17 | 29°59 | 29°18 | S 7 |
| M 8 | 3 8 14 | 15°33'45 | 4♓15 | 1°28 | 15°11 | 22°55 | 22°46 | 20° 9 | 6°32 | 26°19 | 16°39 | 0°46 | 1°14 | 0♒ 6 | 29°26 | M 8 |
| T 9 | 3 12 11 | 16°34'10 | 16°31 | 2°56 | 15°R13 | 23°31 | 22°39 | 20°14 | 6°35 | 26°21 | 16°38 | 0°42 | 1°11 | 0°12 | 29°33 | T 9 |
| W10 | 3 16 7 | 17°34'36 | 29° 5 | 4°23 | 15°12 | 24° 8 | 22°32 | 20°19 | 6°37 | 26°23 | 16°37 | 0°36 | 1° 7 | 0°19 | 29°40 | W10 |
| T 11 | 3 20 4 | 18°35'04 | 12♈ 2 | 5°49 | 15° 9 | 24°44 | 22°26 | 20°25 | 6°40 | 26°25 | 16°36 | 0°27 | 1° 4 | 0°26 | 29°48 | T 11 |
| F 12 | 3 24 0 | 19°35'33 | 25°23 | 7°15 | 15° 4 | 25°21 | 22°19 | 20°30 | 6°43 | 26°27 | 16°35 | 0°16 | 1° 1 | 0°32 | 29°55 | F 12 |
| S 13 | 3 27 57 | 20°36'03 | 9♉ 6 | 8°40 | 14°56 | 25°58 | 22°13 | 20°35 | 6°46 | 26°28 | 16°34 | 0° 5 | 0°58 | 0°39 | 0♐ 3 | S 13 |
| S 14 | 3 31 53 | 21°36'35 | 23° 9 | 10° 5 | 14°45 | 26°36 | 22° 7 | 20°39 | 6°48 | 26°30 | 16°33 | 29♑53 | 0°55 | 0°46 | 0°11 | S 14 |
| M15 | 3 35 50 | 22°37'09 | 7♊27 | 11°28 | 14°32 | 27°13 | 22° 1 | 20°44 | 6°51 | 26°32 | 16°32 | 29°43 | 0°51 | 0°52 | 0°18 | M15 |
| T 16 | 3 39 47 | 23°37'44 | 21°53 | 12°51 | 14°17 | 27°50 | 21°55 | 20°49 | 6°54 | 26°34 | 16°31 | 29°36 | 0°48 | 0°59 | 0°26 | T 16 |
| W17 | 3 43 43 | 24°38'21 | 6♋22 | 14°12 | 13°59 | 28°28 | 21°49 | 20°54 | 6°57 | 26°36 | 16°30 | 29°31 | 0°45 | 1° 6 | 0°33 | W17 |
| T 18 | 3 47 40 | 25°39'00 | 20°49 | 15°33 | 13°39 | 29° 6 | 21°44 | 20°58 | 7° 0 | 26°38 | 16°29 | 29°29 | 0°42 | 1°12 | 0°41 | T 18 |
| F 19 | 3 51 36 | 26°39'40 | 5♌ 8 | 16°52 | 13°17 | 29°43 | 21°39 | 21° 3 | 7° 3 | 26°40 | 16°27 | 29°D29 | 0°39 | 1°19 | 0°48 | F 19 |
| S 20 | 3 55 33 | 27°40'22 | 19°19 | 18° 9 | 12°52 | 0♓21 | 21°33 | 21° 7 | 7° 5 | 26°42 | 16°26 | 29°30 | 0°36 | 1°25 | 0°56 | S 20 |
| S 21 | 3 59 29 | 28°41'05 | 3♍19 | 19°25 | 12°26 | 0°59 | 21°28 | 21°11 | 7° 8 | 26°44 | 16°25 | 29°R30 | 0°32 | 1°32 | 1° 3 | S 21 |
| M22 | 4 3 26 | 29°41'50 | 17° 9 | 20°39 | 11°57 | 1°37 | 21°24 | 21°16 | 7°11 | 26°46 | 16°24 | 29°28 | 0°29 | 1°39 | 1°11 | M22 |
| T 23 | 4 7 23 | 0♐42'37 | 0♎48 | 21°50 | 11°27 | 2°16 | 21°19 | 21°20 | 7°14 | 26°49 | 16°23 | 29°24 | 0°26 | 1°45 | 1°19 | T 23 |
| W24 | 4 11 19 | 1°43'25 | 14°17 | 22°59 | 10°56 | 2°54 | 21°14 | 21°24 | 7°18 | 26°51 | 16°22 | 29°18 | 0°23 | 1°52 | 1°26 | W24 |
| T 25 | 4 15 16 | 2°44'14 | 27°34 | 24° 4 | 10°23 | 3°32 | 21°10 | 21°28 | 7°21 | 26°53 | 16°21 | 29°10 | 0°20 | 1°59 | 1°34 | T 25 |
| F 26 | 4 19 12 | 3°45'05 | 10♏40 | 25° 7 | 9°49 | 4°11 | 21° 6 | 21°32 | 7°24 | 26°55 | 16°20 | 29° 0 | 0°17 | 2° 5 | 1°41 | F 26 |
| S 27 | 4 23 9 | 4°45'57 | 23°33 | 26° 5 | 9°14 | 4°49 | 21° 2 | 21°36 | 7°27 | 26°57 | 16°19 | 28°49 | 0°13 | 2°12 | 1°49 | S 27 |
| S 28 | 4 27 5 | 5°46'51 | 6♐12 | 26°59 | 8°38 | 5°28 | 20°58 | 21°39 | 7°30 | 26°59 | 16°17 | 28°39 | 0°10 | 2°19 | 1°56 | S 28 |
| M29 | 4 31 2 | 6°47'46 | 18°38 | 27°47 | 8° 2 | 6° 7 | 20°55 | 21°43 | 7°33 | 27° 1 | 16°16 | 28°31 | 0° 7 | 2°25 | 2° 4 | M29 |
| T 30 | 4 34 58 | 7♐48'41 | 0♑51 | 28♐30 | 7♐25 | 6♓46 | 20♈52 | 21♍46 | 7♑36 | 27♐ 3 | 16♊15 | 28♑25 | 0♒ 4 | 2♒32 | 2♐11 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 14s22 | 25s54 | 3s53 | 19s21 | 1s20 | 27s45 | 5s16 | 17s18 | 2s10 | 7n45 | 1s33 | 5n55 | 1n54 | 23s40 | 0s20 | 22s17 | 1n 9 | 14n 1 | 8s51 | 19s57 | 19s51 | 20s32 | 16s25 | 3n33 | M 1 |
| T 2 | 14 42 | 26 24 | 3 7 | 19 50 | 1 26 | 27 45 | 5 14 | 17 5 | 2 8 | 7 42 | 1 33 | 5 53 | 1 55 | 23 40 | 0 20 | 22 17 | 1 9 | 14 1 | 8 51 | 19 59 | 19 51 | 20 30 | 16 26 | 3 33 | T 2 |
| W 3 | 15 1 | 25 37 | 2 13 | 20 18 | 1 32 | 27 45 | 5 12 | 16 51 | 2 5 | 7 40 | 1 32 | 5 51 | 1 55 | 23 40 | 0 20 | 22 17 | 1 9 | 14 1 | 8 51 | 20 0 | 19 52 | 20 27 | 16 28 | 3 33 | W 3 |
| T 4 | 15 19 | 23 39 | 1 14 | 20 46 | 1 37 | 27 44 | 5 10 | 16 38 | 2 3 | 7 37 | 1 32 | 5 49 | 1 55 | 23 40 | 0 20 | 22 17 | 1 9 | 14 1 | 8 51 | 20 1 | 19 53 | 20 25 | 16 29 | 3 33 | T 4 |
| F 5 | 15 38 | 20 40 | 0 12 | 21 12 | 1 43 | 27 42 | 5 6 | 16 24 | 2 1 | 7 34 | 1 32 | 5 47 | 1 55 | 23 40 | 0 20 | 22 17 | 1 9 | 14 1 | 8 51 | 20 1 | 19 53 | 20 23 | 16 31 | 3 33 | F 5 |
| S 6 | 15 56 | 16 52 | 0n51 | 21 37 | 1 48 | 27 39 | 5 3 | 16 10 | 1 58 | 7 32 | 1 32 | 5 45 | 1 55 | 23 40 | 0 20 | 22 17 | 1 9 | 14 1 | 8 51 | 20 1 | 19 54 | 20 21 | 16 32 | 3 33 | S 6 |
| S 7 | 16 14 | 12 22 | 1 51 | 22 2 | 1 53 | 27 36 | 4 59 | 15 56 | 1 56 | 7 30 | 1 32 | 5 43 | 1 56 | 23 40 | 0 20 | 22 18 | 1 9 | 14 1 | 8 51 | 20 1 | 19 55 | 20 18 | 16 34 | 3 34 | S 7 |
| M 8 | 16 32 | 7 22 | 2 48 | 22 25 | 1 58 | 27 32 | 4 54 | 15 41 | 1 53 | 7 27 | 1 31 | 5 41 | 1 56 | 23 39 | 0 20 | 22 18 | 1 8 | 14 0 | 8 51 | 20 1 | 19 55 | 20 16 | 16 35 | 3 34 | M 8 |
| T 9 | 16 49 | 1 59 | 3 38 | 22 47 | 2 2 | 27 27 | 4 49 | 15 27 | 1 51 | 7 25 | 1 31 | 5 39 | 1 56 | 23 39 | 0 20 | 22 18 | 1 8 | 14 0 | 8 51 | 20 2 | 19 56 | 20 14 | 16 37 | 3 34 | T 9 |
| W10 | 17 6 | 3n35 | 4 18 | 23 8 | 2 6 | 27 21 | 4 43 | 15 13 | 1 49 | 7 23 | 1 31 | 5 37 | 1 56 | 23 39 | 0 20 | 22 18 | 1 8 | 14 0 | 8 51 | 20 4 | 19 57 | 20 12 | 16 38 | 3 34 | W10 |
| T 11 | 17 23 | 9 10 | 4 47 | 23 27 | 2 10 | 27 15 | 4 37 | 14 58 | 1 47 | 7 20 | 1 31 | 5 35 | 1 56 | 23 39 | 0 20 | 22 18 | 1 8 | 14 0 | 8 51 | 20 6 | 19 58 | 20 9 | 16 40 | 3 34 | T 11 |
| F 12 | 17 40 | 14 30 | 5 1 | 23 46 | 2 14 | 27 8 | 4 31 | 14 44 | 1 44 | 7 18 | 1 31 | 5 34 | 1 57 | 23 39 | 0 20 | 22 18 | 1 8 | 14 0 | 8 51 | 20 8 | 19 58 | 20 7 | 16 41 | 3 34 | F 12 |
| S 13 | 17 56 | 19 16 | 4 59 | 24 3 | 2 17 | 26 59 | 4 23 | 14 29 | 1 42 | 7 16 | 1 30 | 5 32 | 1 57 | 23 39 | 0 20 | 22 18 | 1 8 | 14 0 | 8 51 | 20 10 | 19 59 | 20 5 | 16 42 | 3 34 | S 13 |
| S 14 | 18 12 | 23 5 | 4 38 | 24 19 | 2 20 | 26 50 | 4 15 | 14 14 | 1 40 | 7 14 | 1 30 | 5 30 | 1 57 | 23 39 | 0 20 | 22 18 | 1 8 | 13 59 | 8 51 | 20 13 | 20 0 | 20 2 | 16 44 | 3 34 | S 14 |
| M15 | 18 28 | 25 32 | 4 0 | 24 34 | 2 23 | 26 40 | 4 7 | 13 59 | 1 38 | 7 12 | 1 30 | 5 28 | 1 57 | 23 38 | 0 20 | 22 18 | 1 8 | 13 59 | 8 51 | 20 15 | 20 0 | 20 0 | 16 45 | 3 35 | M15 |
| T 16 | 18 43 | 26 20 | 3 6 | 24 47 | 2 25 | 26 29 | 3 58 | 13 44 | 1 35 | 7 10 | 1 30 | 5 27 | 1 58 | 23 38 | 0 20 | 22 18 | 1 8 | 13 59 | 8 51 | 20 16 | 20 1 | 19 58 | 16 47 | 3 35 | T 16 |
| W17 | 18 58 | 25 20 | 2 0 | 24 59 | 2 27 | 26 18 | 3 48 | 13 29 | 1 33 | 7 8 | 1 29 | 5 25 | 1 58 | 23 38 | 0 20 | 22 18 | 1 8 | 13 59 | 8 51 | 20 17 | 20 2 | 19 55 | 16 48 | 3 35 | W17 |
| T 18 | 19 13 | 22 38 | 0 46 | 25 10 | 2 29 | 26 5 | 3 38 | 13 14 | 1 31 | 7 6 | 1 29 | 5 24 | 1 58 | 23 38 | 0 20 | 22 18 | 1 8 | 13 59 | 8 51 | 20 18 | 20 2 | 19 53 | 16 49 | 3 35 | T 18 |
| F 19 | 19 27 | 18 32 | 0s30 | 25 19 | 2 30 | 25 51 | 3 27 | 12 59 | 1 29 | 7 5 | 1 29 | 5 22 | 1 58 | 23 38 | 0 20 | 22 18 | 1 8 | 13 59 | 8 51 | 20 18 | 20 3 | 19 51 | 16 51 | 3 35 | F 19 |
| S 20 | 19 41 | 13 25 | 1 44 | 25 27 | 2 30 | 25 37 | 3 15 | 12 43 | 1 27 | 7 3 | 1 29 | 5 21 | 1 59 | 23 38 | 0 20 | 22 19 | 1 8 | 13 59 | 8 51 | 20 18 | 20 4 | 19 48 | 16 52 | 3 35 | S 20 |
| S 21 | 19 54 | 7 39 | 2 51 | 25 33 | 2 30 | 25 21 | 3 3 | 12 28 | 1 25 | 7 1 | 1 28 | 5 19 | 1 59 | 23 38 | 0 20 | 22 19 | 1 8 | 13 59 | 8 51 | 20 18 | 20 4 | 19 46 | 16 53 | 3 36 | S 21 |
| M22 | 20 7 | 1 37 | 3 46 | 25 38 | 2 29 | 25 5 | 2 50 | 12 12 | 1 23 | 7 0 | 1 28 | 5 18 | 1 59 | 23 37 | 0 20 | 22 19 | 1 8 | 13 58 | 8 51 | 20 18 | 20 5 | 19 44 | 16 55 | 3 36 | M22 |
| T 23 | 20 20 | 4s25 | 4 28 | 25 41 | 2 27 | 24 48 | 2 37 | 11 57 | 1 21 | 6 58 | 1 28 | 5 16 | 1 59 | 23 37 | 0 20 | 22 19 | 1 8 | 13 58 | 8 52 | 20 19 | 20 6 | 19 41 | 16 56 | 3 36 | T 23 |
| W24 | 20 33 | 10 10 | 4 55 | 25 43 | 2 25 | 24 30 | 2 24 | 11 41 | 1 19 | 6 57 | 1 28 | 5 15 | 1 59 | 23 37 | 0 20 | 22 19 | 1 8 | 13 58 | 8 52 | 20 20 | 20 6 | 19 39 | 16 57 | 3 36 | W24 |
| T 25 | 20 45 | 15 22 | 5 5 | 25 43 | 2 22 | 24 11 | 2 10 | 11 25 | 1 17 | 6 55 | 1 27 | 5 13 | 2 0 | 23 37 | 0 20 | 22 19 | 1 8 | 13 58 | 8 52 | 20 22 | 20 7 | 19 37 | 16 59 | 3 36 | T 25 |
| F 26 | 20 57 | 19 47 | 4 59 | 25 42 | 2 18 | 23 52 | 1 55 | 11 10 | 1 15 | 6 54 | 1 27 | 5 12 | 2 0 | 23 37 | 0 20 | 22 19 | 1 8 | 13 58 | 8 52 | 20 24 | 20 8 | 19 34 | 17 0 | 3 37 | F 26 |
| S 27 | 21 8 | 23 10 | 4 38 | 25 39 | 2 13 | 23 32 | 1 40 | 10 54 | 1 13 | 6 53 | 1 27 | 5 11 | 2 0 | 23 37 | 0 20 | 22 19 | 1 8 | 13 58 | 8 52 | 20 26 | 20 9 | 19 32 | 17 1 | 3 37 | S 27 |
| S 28 | 21 19 | 25 22 | 4 3 | 25 35 | 2 8 | 23 11 | 1 25 | 10 38 | 1 11 | 6 52 | 1 27 | 5 10 | 2 0 | 23 36 | 0 20 | 22 19 | 1 8 | 13 58 | 8 52 | 20 28 | 20 9 | 19 30 | 17 3 | 3 37 | S 28 |
| M29 | 21 29 | 26 16 | 3 17 | 25 29 | 2 1 | 22 50 | 1 10 | 10 21 | 1 9 | 6 51 | 1 26 | 5 8 | 2 1 | 23 36 | 0 20 | 22 19 | 1 8 | 13 58 | 8 52 | 20 30 | 20 10 | 19 27 | 17 4 | 3 37 | M29 |
| T 30 | 21s39 | 25s52 | 2s23 | 25s21 | 1s53 | 22s29 | 0s54 | 10s 5 | 1s 7 | 6n50 | 1s26 | 5n 7 | 2n 1 | 23s36 | 0s20 | 22s19 | 1n 8 | 13n58 | 8s51 | 20s31 | 20s11 | 19s25 | 17s 5 | 3n38 | T 30 |

Julian Day Number = 2325840.5, Delta T = 39.25 sec
Ecliptic obliquity = 23°29'07, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'11, Lahiri = 19°03'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1655
# geocentric

## DECEMBER 1655 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 38 55 | 8♐49'38 | 12♑53 | 29♐ 6 | 6°R49 | 7♓25 | 20°R48 | 21♍50 | 7♑40 | 27♐ 6 | 16°R14 | 28°R21 | 0♒ 1 | 2♒39 | 2♐19 | W 1 |
| T 2 | 4 42 52 | 9°50'36 | 24°46 | 29°35 | 6♐13 | 8° 4 | 20♈45 | 21°53 | 7°43 | 27° 8 | 16♊13 | 28°D19 | 29♑57 | 2°45 | 2°27 | T 2 |
| F 3 | 4 46 48 | 10°51'34 | 6♒33 | 29°56 | 5°38 | 8°43 | 20°43 | 21°56 | 7°46 | 27°10 | 16°12 | 28♑20 | 29°54 | 2°52 | 2°34 | F 3 |
| S 4 | 4 50 45 | 11°52'33 | 18°19 | 0♑ 7 | 5° 3 | 9°22 | 20°40 | 22° 0 | 7°49 | 27°12 | 16°10 | 28°21 | 29°51 | 2°59 | 2°42 | S 4 |
| S 5 | 4 54 41 | 12°53'32 | 0♓ 9 | 0°R 8 | 4°29 | 10° 1 | 20°38 | 22° 3 | 7°53 | 27°14 | 16° 9 | 28°22 | 29°48 | 3° 5 | 2°49 | S 5 |
| M 6 | 4 58 38 | 13°54'33 | 12° 8 | 29♐59 | 3°57 | 10°41 | 20°36 | 22° 5 | 7°56 | 27°17 | 16° 8 | 28°R23 | 29°45 | 3°12 | 2°57 | M 6 |
| T 7 | 5 2 34 | 14°55'33 | 24°21 | 29°38 | 3°26 | 11°20 | 20°34 | 22° 8 | 7°59 | 27°19 | 16° 7 | 28°23 | 29°42 | 3°18 | 3° 4 | T 7 |
| W 8 | 5 6 31 | 15°56'35 | 6♈53 | 29° 6 | 2°56 | 11°59 | 20°32 | 22°11 | 8° 3 | 27°21 | 16° 6 | 28°20 | 29°38 | 3°25 | 3°11 | W 8 |
| T 9 | 5 10 27 | 16°57'36 | 19°49 | 28°23 | 2°29 | 12°39 | 20°31 | 22°14 | 8° 6 | 27°23 | 16° 5 | 28°16 | 29°35 | 3°32 | 3°19 | T 9 |
| F 10 | 5 14 24 | 17°58'39 | 3♉11 | 27°28 | 2° 3 | 13°18 | 20°29 | 22°16 | 8°10 | 27°26 | 16° 3 | 28°11 | 29°32 | 3°38 | 3°26 | F 10 |
| S 11 | 5 18 21 | 18°59'42 | 17° 0 | 26°24 | 1°40 | 13°58 | 20°28 | 22°19 | 8°13 | 27°28 | 16° 2 | 28° 4 | 29°29 | 3°45 | 3°34 | S 11 |
| S 12 | 5 22 17 | 20° 0'45 | 1♊14 | 25°12 | 1°18 | 14°38 | 20°27 | 22°21 | 8°17 | 27°30 | 16° 1 | 27°58 | 29°26 | 3°52 | 3°41 | S 12 |
| M13 | 5 26 14 | 21° 1'49 | 15°49 | 23°53 | 0°59 | 15°17 | 20°27 | 22°23 | 8°20 | 27°32 | 16° 0 | 27°52 | 29°23 | 3°58 | 3°48 | M13 |
| T 14 | 5 30 10 | 22° 2'54 | 0♋38 | 22°31 | 0°43 | 15°57 | 20°26 | 22°25 | 8°23 | 27°35 | 15°59 | 27°48 | 29°19 | 4° 5 | 3°56 | T 14 |
| W15 | 5 34 7 | 23° 3'59 | 15°33 | 21° 8 | 0°29 | 16°37 | 20°26 | 22°27 | 8°27 | 27°37 | 15°58 | 27°46 | 29°16 | 4°12 | 4° 3 | W15 |
| T 16 | 5 38 3 | 24° 5'05 | 0♌26 | 19°47 | 0°17 | 17°17 | 20°D26 | 22°29 | 8°30 | 27°39 | 15°56 | 27°D45 | 29°13 | 4°18 | 4°10 | T 16 |
| F 17 | 5 42 0 | 25° 6'11 | 15°10 | 18°31 | 0° 8 | 17°57 | 20°26 | 22°31 | 8°34 | 27°41 | 15°55 | 27°46 | 29°10 | 4°25 | 4°17 | F 17 |
| S 18 | 5 45 56 | 26° 7'18 | 29°39 | 17°22 | 0° 1 | 18°37 | 20°27 | 22°33 | 8°37 | 27°44 | 15°54 | 27°48 | 29° 7 | 4°32 | 4°24 | S 18 |
| S 19 | 5 49 53 | 27° 8'26 | 13♍50 | 16°21 | 29♏57 | 19°17 | 20°27 | 22°34 | 8°41 | 27°46 | 15°53 | 27°49 | 29° 3 | 4°38 | 4°32 | S 19 |
| M20 | 5 53 50 | 28° 9'34 | 27°42 | 15°30 | 29°D55 | 19°57 | 20°28 | 22°36 | 8°44 | 27°48 | 15°52 | 27°R50 | 29° 0 | 4°45 | 4°39 | M20 |
| T 21 | 5 57 46 | 29°10'43 | 11♎16 | 14°50 | 29°56 | 20°37 | 20°29 | 22°37 | 8°48 | 27°50 | 15°51 | 27°49 | 28°57 | 4°52 | 4°46 | T 21 |
| W22 | 6 1 43 | 0♑11'53 | 24°32 | 14°20 | 29°59 | 21°17 | 20°30 | 22°39 | 8°52 | 27°53 | 15°50 | 27°47 | 28°54 | 4°58 | 4°53 | W22 |
| T 23 | 6 5 39 | 1°13'03 | 7♏32 | 14° 1 | 0♐ 5 | 21°57 | 20°32 | 22°40 | 8°55 | 27°55 | 15°48 | 27°44 | 28°51 | 5° 5 | 5° 0 | T 23 |
| F 24 | 6 9 36 | 2°14'14 | 20°17 | 13°D52 | 0°13 | 22°37 | 20°33 | 22°41 | 8°59 | 27°57 | 15°47 | 27°40 | 28°48 | 5°11 | 5° 7 | F 24 |
| S 25 | 6 13 32 | 3°15'25 | 2♐50 | 13°52 | 0°23 | 23°17 | 20°35 | 22°42 | 9° 2 | 28° 0 | 15°46 | 27°35 | 28°44 | 5°18 | 5°14 | S 25 |
| S 26 | 6 17 29 | 4°16'37 | 15°11 | 14° 2 | 0°36 | 23°58 | 20°37 | 22°43 | 9° 6 | 28° 2 | 15°45 | 27°31 | 28°41 | 5°25 | 5°21 | S 26 |
| M27 | 6 21 25 | 5°17'48 | 27°21 | 14°19 | 0°50 | 24°38 | 20°39 | 22°43 | 9° 9 | 28° 4 | 15°44 | 27°28 | 28°38 | 5°31 | 5°28 | M27 |
| T 28 | 6 25 22 | 6°19'00 | 9♑23 | 14°45 | 1° 7 | 25°18 | 20°42 | 22°44 | 9°13 | 28° 6 | 15°43 | 27°26 | 28°35 | 5°38 | 5°35 | T 28 |
| W29 | 6 29 19 | 7°20'12 | 21°18 | 15°17 | 1°26 | 25°58 | 20°44 | 22°44 | 9°17 | 28° 9 | 15°42 | 27°25 | 28°32 | 5°45 | 5°41 | W29 |
| T 30 | 6 33 15 | 8°21'23 | 3♒ 7 | 15°55 | 1°46 | 26°39 | 20°47 | 22°45 | 9°20 | 28°11 | 15°41 | 27°D24 | 28°29 | 5°51 | 5°48 | T 30 |
| F 31 | 6 37 12 | 9♑22'35 | 14♒54 | 16♐38 | 2♐ 9 | 27♓19 | 20♈50 | 22♍45 | 9♑24 | 28♐13 | 15♊40 | 27♑25 | 28♑25 | 5♒58 | 5♐55 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21s49 | 24s14 | 1s22 | 25s13 | 1s44 | 22s 8 | 0s39 | 9s49 | 1s 5 | 6n49 | 1s26 | 5n 6 | 2n 1 | 23s36 | 0s20 | 22s19 | 1n 8 | 13n57 | 8s51 | 20s32 | 20s11 | 19s23 | 17s 6 | 3n38 |
| T 2 | 21 58 | 21 32 | 0 19 | 25 2 | 1 33 | 21 46 | 0 23 | 9 33 | 1 4 | 6 48 | 1 25 | 5 5 | 2 2 | 23 36 | 0 20 | 22 19 | 1 8 | 13 57 | 8 51 | 20 32 | 20 12 | 19 20 | 17 8 | 3 38 |
| F 3 | 22 7 | 17 57 | 0n44 | 24 51 | 1 21 | 21 25 | 0 8 | 9 16 | 1 2 | 6 47 | 1 25 | 5 4 | 2 2 | 23 35 | 0 20 | 22 19 | 1 8 | 13 57 | 8 51 | 20 32 | 20 13 | 19 18 | 17 9 | 3 38 |
| S 4 | 22 15 | 13 41 | 1 46 | 24 37 | 1 8 | 21 3 | 0n 8 | 9 0 | 1 0 | 6 47 | 1 25 | 5 3 | 2 2 | 23 35 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 32 | 20 13 | 19 15 | 17 10 | 3 39 |
| S 5 | 22 23 | 8 53 | 2 44 | 24 23 | 0 54 | 20 42 | 0 23 | 8 43 | 0 58 | 6 46 | 1 24 | 5 2 | 2 2 | 23 35 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 32 | 20 14 | 19 13 | 17 11 | 3 39 |
| M 6 | 22 31 | 3 42 | 3 35 | 24 7 | 0 38 | 20 21 | 0 38 | 8 27 | 0 56 | 6 46 | 1 24 | 5 1 | 2 3 | 23 35 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 31 | 20 15 | 19 11 | 17 12 | 3 39 |
| T 7 | 22 38 | 1n42 | 4 18 | 23 50 | 0 20 | 20 1 | 0 53 | 8 10 | 0 55 | 6 45 | 1 24 | 5 0 | 2 3 | 23 35 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 32 | 20 15 | 19 8 | 17 13 | 3 39 |
| W 8 | 22 44 | 7 10 | 4 49 | 23 31 | 0 2 | 19 41 | 1 8 | 7 54 | 0 53 | 6 45 | 1 24 | 4 59 | 2 3 | 23 34 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 32 | 20 16 | 19 6 | 17 15 | 3 40 |
| T 9 | 22 51 | 12 30 | 5 7 | 23 11 | 0n17 | 19 21 | 1 22 | 7 37 | 0 51 | 6 45 | 1 23 | 4 59 | 2 3 | 23 34 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 33 | 20 17 | 19 3 | 17 16 | 3 40 |
| F 10 | 22 56 | 17 26 | 5 9 | 22 51 | 0 37 | 19 3 | 1 36 | 7 20 | 0 50 | 6 44 | 1 23 | 4 58 | 2 4 | 23 34 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 34 | 20 17 | 19 1 | 17 17 | 3 40 |
| S 11 | 23 2 | 21 38 | 4 54 | 22 29 | 0 57 | 18 45 | 1 49 | 7 3 | 0 48 | 6 44 | 1 23 | 4 57 | 2 4 | 23 34 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 35 | 20 18 | 18 59 | 17 18 | 3 40 |
| S 12 | 23 6 | 24 41 | 4 20 | 22 7 | 1 17 | 18 28 | 2 2 | 6 46 | 0 46 | 6 44 | 1 22 | 4 57 | 2 4 | 23 34 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 37 | 20 19 | 18 56 | 17 19 | 3 41 |
| M13 | 23 11 | 26 11 | 3 29 | 21 44 | 1 37 | 18 12 | 2 14 | 6 30 | 0 45 | 6 44 | 1 22 | 4 56 | 2 4 | 23 33 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 38 | 20 19 | 18 54 | 17 20 | 3 41 |
| T 14 | 23 15 | 25 52 | 2 23 | 21 22 | 1 55 | 17 57 | 2 26 | 6 13 | 0 43 | 6 44 | 1 22 | 4 55 | 2 5 | 23 33 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 38 | 20 20 | 18 51 | 17 21 | 3 41 |
| W15 | 23 18 | 23 40 | 1 6 | 21 0 | 2 11 | 17 43 | 2 38 | 5 56 | 0 41 | 6 45 | 1 21 | 4 55 | 2 5 | 23 33 | 0 20 | 22 20 | 1 8 | 13 57 | 8 51 | 20 39 | 20 21 | 18 49 | 17 22 | 3 42 |
| T 16 | 23 21 | 19 51 | 0s15 | 20 40 | 2 26 | 17 30 | 2 48 | 5 39 | 0 40 | 6 45 | 1 21 | 4 54 | 2 5 | 23 33 | 0 20 | 22 20 | 1 8 | 13 56 | 8 51 | 20 39 | 20 21 | 18 47 | 17 23 | 3 42 |
| F 17 | 23 24 | 14 49 | 1 34 | 20 22 | 2 38 | 17 18 | 2 59 | 5 22 | 0 38 | 6 45 | 1 21 | 4 54 | 2 6 | 23 32 | 0 20 | 22 20 | 1 8 | 13 56 | 8 51 | 20 39 | 20 22 | 18 44 | 17 24 | 3 42 |
| S 18 | 23 26 | 9 2 | 2 46 | 20 6 | 2 48 | 17 8 | 3 8 | 5 5 | 0 37 | 6 46 | 1 20 | 4 53 | 2 6 | 23 32 | 0 20 | 22 20 | 1 8 | 13 56 | 8 51 | 20 39 | 20 23 | 18 42 | 17 25 | 3 43 |
| S 19 | 23 27 | 2 53 | 3 46 | 19 53 | 2 55 | 16 58 | 3 17 | 4 48 | 0 35 | 6 46 | 1 20 | 4 53 | 2 6 | 23 32 | 0 20 | 22 20 | 1 8 | 13 56 | 8 51 | 20 38 | 20 23 | 18 39 | 17 26 | 3 43 |
| M20 | 23 28 | 3s14 | 4 32 | 19 42 | 3 0 | 16 49 | 3 26 | 4 30 | 0 34 | 6 47 | 1 20 | 4 53 | 2 6 | 23 32 | 0 20 | 22 20 | 1 8 | 13 56 | 8 50 | 20 38 | 20 24 | 18 37 | 17 27 | 3 43 |
| T 21 | 23 29 | 9 5 | 5 1 | 19 35 | 3 3 | 16 41 | 3 34 | 4 13 | 0 32 | 6 47 | 1 19 | 4 52 | 2 7 | 23 32 | 0 20 | 22 20 | 1 8 | 13 56 | 8 50 | 20 38 | 20 24 | 18 34 | 17 28 | 3 44 |
| W22 | 23 29 | 14 23 | 5 13 | 19 31 | 3 4 | 16 34 | 3 42 | 3 56 | 0 31 | 6 48 | 1 19 | 4 52 | 2 7 | 23 31 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 39 | 20 25 | 18 32 | 17 29 | 3 44 |
| T 23 | 23 29 | 18 55 | 5 9 | 19 30 | 3 3 | 16 29 | 3 49 | 3 39 | 0 29 | 6 49 | 1 19 | 4 52 | 2 7 | 23 31 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 39 | 20 26 | 18 29 | 17 30 | 3 44 |
| F 24 | 23 28 | 22 30 | 4 50 | 19 31 | 3 1 | 16 24 | 3 55 | 3 22 | 0 28 | 6 50 | 1 18 | 4 52 | 2 8 | 23 31 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 40 | 20 26 | 18 27 | 17 31 | 3 45 |
| S 25 | 23 27 | 24 58 | 4 17 | 19 35 | 2 57 | 16 20 | 4 1 | 3 4 | 0 26 | 6 51 | 1 18 | 4 52 | 2 8 | 23 31 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 41 | 20 27 | 18 24 | 17 31 | 3 45 |
| S 26 | 23 25 | 26 10 | 3 32 | 19 41 | 2 52 | 16 17 | 4 7 | 2 47 | 0 25 | 6 52 | 1 18 | 4 52 | 2 8 | 23 30 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 42 | 20 28 | 18 22 | 17 32 | 3 45 |
| M27 | 23 23 | 26 6 | 2 38 | 19 49 | 2 46 | 16 15 | 4 12 | 2 30 | 0 24 | 6 53 | 1 18 | 4 52 | 2 8 | 23 30 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 42 | 20 28 | 18 20 | 17 33 | 3 46 |
| T 28 | 23 20 | 24 47 | 1 38 | 19 58 | 2 40 | 16 14 | 4 17 | 2 13 | 0 22 | 6 54 | 1 17 | 4 52 | 2 9 | 23 30 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 43 | 20 29 | 18 17 | 17 34 | 3 46 |
| W29 | 23 17 | 22 21 | 0 34 | 20 9 | 2 32 | 16 13 | 4 21 | 1 55 | 0 21 | 6 56 | 1 17 | 4 52 | 2 9 | 23 30 | 0 20 | 22 21 | 1 8 | 13 56 | 8 50 | 20 43 | 20 30 | 18 15 | 17 35 | 3 46 |
| T 30 | 23 13 | 18 59 | 0n32 | 20 20 | 2 25 | 16 14 | 4 25 | 1 38 | 0 20 | 6 57 | 1 17 | 4 52 | 2 9 | 23 29 | 0 20 | 22 21 | 1 8 | 13 56 | 8 49 | 20 43 | 20 30 | 18 12 | 17 35 | 3 47 |
| F 31 | 23s 9 | 14s53 | 1n35 | 20s33 | 2n17 | 16s15 | 4n28 | 1s21 | 0s18 | 6n58 | 1s16 | 4n52 | 2n10 | 23s29 | 0s20 | 22s21 | 1n 8 | 13n56 | 8s49 | 20s43 | 20s31 | 18s10 | 17s36 | 3n47 |

Julian Day Number = 2325870.5, Delta T = 39.20 sec
Ecliptic obliquity = 23°29'07, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'15, Lahiri = 19°03'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## JANUARY 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 41 8 | 10♑23'46 | 26♒41 | 17♐26 | 2♐33 | 28♓ 0 | 20♈54 | 22♍45 | 9♑27 | 28♐15 | 15°R39 | 27♑27 | 28♑22 | 6♒ 5 | 6♐ 2 | S 1 |
| S 2 | 6 45 5 | 11°24'57 | 8♓31 | 18°19 | 2°59 | 28°40 | 20°57 | 22°R45 | 9°31 | 28°18 | 15♊38 | 27°28 | 28°19 | 6°11 | 6° 8 | S 2 |
| M 3 | 6 49 1 | 12°26'07 | 20°30 | 19°15 | 3°27 | 29°20 | 21° 1 | 22°45 | 9°34 | 28°20 | 15°37 | 27°30 | 28°16 | 6°18 | 6°15 | M 3 |
| T 4 | 6 52 58 | 13°27'17 | 2♈41 | 20°15 | 3°56 | 0♈ 1 | 21° 4 | 22°45 | 9°38 | 28°22 | 15°36 | 27°31 | 28°13 | 6°25 | 6°21 | T 4 |
| W 5 | 6 56 55 | 14°28'27 | 15° 9 | 21°18 | 4°27 | 0°41 | 21° 8 | 22°45 | 9°42 | 28°24 | 15°35 | 27°R31 | 28° 9 | 6°31 | 6°28 | W 5 |
| T 6 | 7 0 51 | 15°29'35 | 27°58 | 22°24 | 5° 0 | 1°22 | 21°13 | 22°44 | 9°45 | 28°26 | 15°34 | 27°31 | 28° 6 | 6°38 | 6°34 | T 6 |
| F 7 | 7 4 48 | 16°30'44 | 11♉12 | 23°32 | 5°34 | 2° 2 | 21°17 | 22°44 | 9°49 | 28°29 | 15°33 | 27°30 | 28° 3 | 6°44 | 6°41 | F 7 |
| S 8 | 7 8 44 | 17°31'52 | 24°53 | 24°42 | 6° 9 | 2°43 | 21°22 | 22°43 | 9°52 | 28°31 | 15°32 | 27°29 | 28° 0 | 6°51 | 6°47 | S 8 |
| S 9 | 7 12 41 | 18°32'59 | 9♊ 3 | 25°55 | 6°46 | 3°23 | 21°26 | 22°43 | 9°56 | 28°33 | 15°31 | 27°27 | 27°57 | 6°58 | 6°53 | S 9 |
| M10 | 7 16 37 | 19°34'05 | 23°38 | 27° 9 | 7°24 | 4° 4 | 21°31 | 22°42 | 9°59 | 28°35 | 15°30 | 27°26 | 27°54 | 7° 4 | 6°59 | M10 |
| T 11 | 7 20 34 | 20°35'11 | 8♋33 | 28°24 | 8° 3 | 4°45 | 21°37 | 22°41 | 10° 3 | 28°37 | 15°29 | 27°26 | 27°50 | 7°11 | 7° 5 | T 11 |
| W12 | 7 24 30 | 21°36'17 | 23°42 | 29°42 | 8°44 | 5°25 | 21°42 | 22°40 | 10° 6 | 28°39 | 15°28 | 27°D25 | 27°47 | 7°18 | 7°12 | W12 |
| T 13 | 7 28 27 | 22°37'22 | 8♌54 | 1♑ 0 | 9°26 | 6° 6 | 21°47 | 22°39 | 10°10 | 28°41 | 15°27 | 27°25 | 27°44 | 7°24 | 7°18 | T 13 |
| F 14 | 7 32 24 | 23°38'26 | 24° 0 | 2°20 | 10° 8 | 6°46 | 21°53 | 22°37 | 10°14 | 28°44 | 15°26 | 27°26 | 27°41 | 7°31 | 7°24 | F 14 |
| S 15 | 7 36 20 | 24°39'30 | 8♍52 | 3°41 | 10°52 | 7°27 | 21°59 | 22°36 | 10°17 | 28°46 | 15°25 | 27°26 | 27°38 | 7°38 | 7°29 | S 15 |
| S 16 | 7 40 17 | 25°40'33 | 23°22 | 5° 3 | 11°37 | 8° 7 | 22° 5 | 22°35 | 10°21 | 28°48 | 15°24 | 27°26 | 27°35 | 7°44 | 7°35 | S 16 |
| M17 | 7 44 13 | 26°41'36 | 7♎29 | 6°26 | 12°23 | 8°48 | 22°11 | 22°33 | 10°24 | 28°50 | 15°23 | 27°26 | 27°31 | 7°51 | 7°41 | M17 |
| T 18 | 7 48 10 | 27°42'38 | 21°10 | 7°50 | 13°10 | 9°28 | 22°17 | 22°31 | 10°27 | 28°52 | 15°23 | 27°26 | 27°28 | 7°58 | 7°47 | T 18 |
| W19 | 7 52 6 | 28°43'40 | 4♏26 | 9°15 | 13°58 | 10° 9 | 22°24 | 22°30 | 10°31 | 28°54 | 15°22 | 27°26 | 27°25 | 8° 4 | 7°53 | W19 |
| T 20 | 7 56 3 | 29°44'42 | 17°20 | 10°41 | 14°46 | 10°50 | 22°31 | 22°28 | 10°34 | 28°56 | 15°21 | 27°26 | 27°22 | 8°11 | 7°58 | T 20 |
| F 21 | 7 59 59 | 0♒45'43 | 29°55 | 12° 8 | 15°36 | 11°30 | 22°37 | 22°26 | 10°38 | 28°58 | 15°20 | 27°27 | 27°19 | 8°18 | 8° 4 | F 21 |
| S 22 | 8 3 56 | 1°46'44 | 12♐14 | 13°36 | 16°26 | 12°11 | 22°44 | 22°24 | 10°41 | 29° 0 | 15°19 | 27°27 | 27°15 | 8°24 | 8° 9 | S 22 |
| S 23 | 8 7 53 | 2°47'43 | 24°22 | 15° 4 | 17°17 | 12°51 | 22°52 | 22°22 | 10°45 | 29° 2 | 15°19 | 27°28 | 27°12 | 8°31 | 8°14 | S 23 |
| M24 | 8 11 49 | 3°48'43 | 6♑20 | 16°33 | 18° 9 | 13°32 | 22°59 | 22°19 | 10°48 | 29° 4 | 15°18 | 27°28 | 27° 9 | 8°38 | 8°20 | M24 |
| T 25 | 8 15 46 | 4°49'41 | 18°12 | 18° 3 | 19° 1 | 14°13 | 23° 6 | 22°17 | 10°51 | 29° 6 | 15°17 | 27°29 | 27° 6 | 8°44 | 8°25 | T 25 |
| W26 | 8 19 42 | 5°50'38 | 0♒ 1 | 19°33 | 19°54 | 14°53 | 23°14 | 22°15 | 10°55 | 29° 8 | 15°17 | 27°R29 | 27° 3 | 8°51 | 8°30 | W26 |
| T 27 | 8 23 39 | 6°51'34 | 11°48 | 21° 5 | 20°48 | 15°34 | 23°22 | 22°12 | 10°58 | 29°10 | 15°16 | 27°29 | 27° 0 | 8°57 | 8°35 | T 27 |
| F 28 | 8 27 35 | 7°52'29 | 23°36 | 22°37 | 21°42 | 16°14 | 23°30 | 22° 9 | 11° 1 | 29°12 | 15°15 | 27°28 | 26°56 | 9° 4 | 8°40 | F 28 |
| S 29 | 8 31 32 | 8°53'23 | 5♓27 | 24° 9 | 22°37 | 16°55 | 23°38 | 22° 7 | 11° 5 | 29°13 | 15°15 | 27°26 | 26°53 | 9°11 | 8°45 | S 29 |
| S 30 | 8 35 28 | 9°54'16 | 17°23 | 25°43 | 23°33 | 17°35 | 23°46 | 22° 4 | 11° 8 | 29°15 | 15°14 | 27°24 | 26°50 | 9°17 | 8°50 | S 30 |
| M31 | 8 39 25 | 10♒55'07 | 29♓27 | 27♑17 | 24♐29 | 18♈16 | 23♈55 | 22♍ 1 | 11♑11 | 29♐17 | 15♊13 | 27♑22 | 26♑47 | 9♒24 | 8♐55 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 5 | 10s13 | 2n35 | 20s46 | 2n 8 | 16s16 | 4n32 | 1s 3 | 0s17 | 7n 0 | 1s16 | 4n52 | 2n10 | 23s29 | 0s20 | 22s21 | 1n 8 | 13n56 | 8s49 | 20s43 | 20s32 | 18s 7 | 17s37 | 3n48 |
| S 2 | 23 0 | 5 10 | 3 29 | 20 59 | 1 59 | 16 19 | 4 34 | 0 46 | 0 16 | 7 1 | 1 16 | 4 52 | 2 10 | 23 29 | 0 20 | 22 21 | 1 8 | 13 56 | 8 49 | 20 42 | 20 32 | 18 5 | 17 38 | 3 48 |
| M 3 | 22 54 | 0n 7 | 4 14 | 21 13 | 1 51 | 16 21 | 4 37 | 0 29 | 0 14 | 7 3 | 1 15 | 4 53 | 2 10 | 23 28 | 0 20 | 22 21 | 1 8 | 13 56 | 8 49 | 20 42 | 20 33 | 18 2 | 17 38 | 3 48 |
| T 4 | 22 48 | 5 28 | 4 48 | 21 26 | 1 42 | 16 25 | 4 39 | 0 12 | 0 13 | 7 5 | 1 15 | 4 53 | 2 11 | 23 28 | 0 20 | 22 21 | 1 8 | 13 56 | 8 49 | 20 42 | 20 34 | 18 0 | 17 39 | 3 49 |
| W 5 | 22 42 | 10 44 | 5 10 | 21 40 | 1 33 | 16 29 | 4 40 | 0n 6 | 0 12 | 7 7 | 1 15 | 4 53 | 2 11 | 23 28 | 0 20 | 22 21 | 1 8 | 13 56 | 8 49 | 20 42 | 20 34 | 17 57 | 17 40 | 3 49 |
| T 6 | 22 35 | 15 42 | 5 17 | 21 53 | 1 23 | 16 33 | 4 42 | 0 23 | 0 11 | 7 8 | 1 14 | 4 54 | 2 11 | 23 28 | 0 20 | 22 21 | 1 8 | 13 56 | 8 49 | 20 42 | 20 35 | 17 55 | 17 40 | 3 50 |
| F 7 | 22 28 | 20 6 | 5 8 | 22 5 | 1 14 | 16 38 | 4 43 | 0 40 | 0 9 | 7 10 | 1 14 | 4 54 | 2 11 | 23 27 | 0 20 | 22 21 | 1 8 | 13 56 | 8 48 | 20 42 | 20 35 | 17 52 | 17 41 | 3 50 |
| S 8 | 22 20 | 23 35 | 4 42 | 22 17 | 1 5 | 16 43 | 4 43 | 0 57 | 0 8 | 7 12 | 1 14 | 4 55 | 2 12 | 23 27 | 0 20 | 22 21 | 1 8 | 13 57 | 8 48 | 20 42 | 20 36 | 17 50 | 17 42 | 3 51 |
| S 9 | 22 12 | 25 46 | 3 58 | 22 29 | 0 56 | 16 49 | 4 44 | 1 15 | 0 7 | 7 14 | 1 14 | 4 55 | 2 12 | 23 27 | 0 20 | 22 21 | 1 8 | 13 57 | 8 48 | 20 43 | 20 37 | 17 47 | 17 42 | 3 51 |
| M10 | 22 3 | 26 17 | 2 57 | 22 40 | 0 48 | 16 55 | 4 44 | 1 32 | 0 6 | 7 17 | 1 13 | 4 56 | 2 12 | 23 27 | 0 20 | 22 21 | 1 8 | 13 57 | 8 48 | 20 43 | 20 37 | 17 45 | 17 43 | 3 51 |
| T 11 | 21 54 | 24 55 | 1 43 | 22 50 | 0 39 | 17 1 | 4 44 | 1 49 | 0 5 | 7 19 | 1 13 | 4 56 | 2 13 | 23 26 | 0 20 | 22 21 | 1 8 | 13 57 | 8 48 | 20 43 | 20 38 | 17 42 | 17 43 | 3 52 |
| W12 | 21 45 | 21 45 | 0 21 | 22 59 | 0 30 | 17 8 | 4 43 | 2 6 | 0 3 | 7 21 | 1 13 | 4 57 | 2 13 | 23 26 | 0 20 | 22 21 | 1 8 | 13 57 | 8 48 | 20 43 | 20 39 | 17 40 | 17 44 | 3 52 |
| T 13 | 21 35 | 17 3 | 1s 3 | 23 7 | 0 22 | 17 15 | 4 43 | 2 23 | 0 2 | 7 23 | 1 12 | 4 58 | 2 13 | 23 26 | 0 20 | 22 21 | 1 8 | 13 57 | 8 47 | 20 43 | 20 39 | 17 37 | 17 44 | 3 53 |
| F 14 | 21 25 | 11 18 | 2 23 | 23 15 | 0 13 | 17 22 | 4 42 | 2 40 | 0 1 | 7 26 | 1 12 | 4 58 | 2 13 | 23 26 | 0 20 | 22 21 | 1 8 | 13 57 | 8 47 | 20 43 | 20 40 | 17 34 | 17 45 | 3 53 |
| S 15 | 21 14 | 5 0 | 3 31 | 23 21 | 0 5 | 17 29 | 4 41 | 2 58 | 0 0 | 7 28 | 1 12 | 4 59 | 2 14 | 23 25 | 0 20 | 22 21 | 1 8 | 13 57 | 8 47 | 20 43 | 20 41 | 17 32 | 17 45 | 3 54 |
| S 16 | 21 3 | 1s24 | 4 24 | 23 26 | 0s 3 | 17 36 | 4 40 | 3 15 | 0n 1 | 7 31 | 1 11 | 5 0 | 2 14 | 23 25 | 0 20 | 22 21 | 1 8 | 13 57 | 8 47 | 20 43 | 20 41 | 17 29 | 17 46 | 3 54 |
| M17 | 20 51 | 7 33 | 4 59 | 23 30 | 0 11 | 17 43 | 4 38 | 3 32 | 0 2 | 7 33 | 1 11 | 5 1 | 2 14 | 23 25 | 0 20 | 22 21 | 1 8 | 13 57 | 8 47 | 20 43 | 20 42 | 17 27 | 17 46 | 3 55 |
| T 18 | 20 40 | 13 9 | 5 16 | 23 34 | 0 18 | 17 51 | 4 37 | 3 49 | 0 3 | 7 36 | 1 11 | 5 2 | 2 14 | 23 25 | 0 20 | 22 21 | 1 8 | 13 57 | 8 47 | 20 43 | 20 42 | 17 24 | 17 47 | 3 55 |
| W19 | 20 27 | 17 58 | 5 16 | 23 35 | 0 26 | 17 58 | 4 35 | 4 6 | 0 4 | 7 38 | 1 11 | 5 3 | 2 15 | 23 24 | 0 20 | 22 21 | 1 8 | 13 57 | 8 46 | 20 43 | 20 43 | 17 22 | 17 47 | 3 56 |
| T 20 | 20 15 | 21 49 | 4 59 | 23 36 | 0 33 | 18 6 | 4 33 | 4 22 | 0 5 | 7 41 | 1 10 | 5 4 | 2 15 | 23 24 | 0 20 | 22 21 | 1 8 | 13 57 | 8 46 | 20 43 | 20 44 | 17 19 | 17 48 | 3 56 |
| F 21 | 20 2 | 24 33 | 4 29 | 23 36 | 0 40 | 18 13 | 4 31 | 4 39 | 0 6 | 7 44 | 1 10 | 5 5 | 2 15 | 23 24 | 0 20 | 22 21 | 1 8 | 13 58 | 8 46 | 20 43 | 20 44 | 17 17 | 17 48 | 3 57 |
| S 22 | 19 48 | 26 2 | 3 46 | 23 34 | 0 47 | 18 21 | 4 28 | 4 56 | 0 7 | 7 47 | 1 10 | 5 6 | 2 16 | 23 24 | 0 20 | 22 21 | 1 8 | 13 58 | 8 46 | 20 43 | 20 45 | 17 14 | 17 48 | 3 57 |
| S 23 | 19 34 | 26 16 | 2 54 | 23 31 | 0 54 | 18 28 | 4 26 | 5 13 | 0 8 | 7 50 | 1 10 | 5 7 | 2 16 | 23 23 | 0 20 | 22 21 | 1 8 | 13 58 | 8 46 | 20 42 | 20 45 | 17 12 | 17 49 | 3 58 |
| M24 | 19 20 | 25 15 | 1 55 | 23 27 | 1 0 | 18 35 | 4 23 | 5 30 | 0 9 | 7 53 | 1 9 | 5 8 | 2 16 | 23 23 | 0 20 | 22 21 | 1 8 | 13 58 | 8 45 | 20 42 | 20 46 | 17 9 | 17 49 | 3 58 |
| T 25 | 19 6 | 23 6 | 0 51 | 23 21 | 1 6 | 18 42 | 4 20 | 5 46 | 0 10 | 7 56 | 1 9 | 5 9 | 2 16 | 23 23 | 0 20 | 22 21 | 1 8 | 13 58 | 8 45 | 20 42 | 20 47 | 17 6 | 17 49 | 3 59 |
| W26 | 18 51 | 19 57 | 0n14 | 23 15 | 1 12 | 18 49 | 4 17 | 6 3 | 0 11 | 7 59 | 1 9 | 5 10 | 2 17 | 23 23 | 0 20 | 22 21 | 1 8 | 13 58 | 8 45 | 20 42 | 20 47 | 17 4 | 17 50 | 3 59 |
| T 27 | 18 36 | 16 1 | 1 19 | 23 6 | 1 18 | 18 56 | 4 14 | 6 20 | 0 12 | 8 2 | 1 8 | 5 12 | 2 17 | 23 22 | 0 20 | 22 21 | 1 8 | 13 58 | 8 45 | 20 42 | 20 48 | 17 1 | 17 50 | 4 0 |
| F 28 | 18 20 | 11 28 | 2 20 | 22 57 | 1 23 | 19 3 | 4 11 | 6 36 | 0 13 | 8 5 | 1 8 | 5 13 | 2 17 | 23 22 | 0 20 | 22 21 | 1 8 | 13 58 | 8 45 | 20 42 | 20 49 | 16 59 | 17 50 | 4 0 |
| S 29 | 18 4 | 6 30 | 3 16 | 22 46 | 1 28 | 19 9 | 4 8 | 6 53 | 0 14 | 8 8 | 1 8 | 5 14 | 2 17 | 23 22 | 0 20 | 22 21 | 1 8 | 13 59 | 8 44 | 20 43 | 20 49 | 16 56 | 17 50 | 4 1 |
| S 30 | 17 48 | 1 16 | 4 3 | 22 34 | 1 33 | 19 16 | 4 4 | 7 9 | 0 15 | 8 12 | 1 8 | 5 15 | 2 17 | 23 21 | 0 20 | 22 21 | 1 8 | 13 59 | 8 44 | 20 43 | 20 50 | 16 53 | 17 50 | 4 1 |
| M31 | 17s32 | 4n 3 | 4n40 | 22s20 | 1s37 | 19s22 | 4n 1 | 7n25 | 0n16 | 8n15 | 1s 7 | 5n17 | 2n18 | 23s21 | 0s21 | 22s21 | 1n 8 | 13n59 | 8s44 | 20s44 | 20s50 | 16s51 | 17s51 | 4n 2 |

Julian Day Number = 2325901.5, Delta T = 39.14 sec
Ecliptic obliquity = 23°29'06, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'19, Lahiri = 19°03'20Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## FEBRUARY 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 43 22 | 11♒55'57 | 11♈41 | 28♑52 | 25♐26 | 18♈57 | 24♈ 3 | 21°R58 | 11♑14 | 29♐19 | 15°R13 | 27°R20 | 26♑44 | 9♒31 | 9♐ 0 | T 1 |
| W 2 | 8 47 18 | 12°56'45 | 24° 9 | 0♒28 | 26°23 | 19°37 | 24°12 | 21♍55 | 11°17 | 29°21 | 15♊12 | 27♑19 | 26°41 | 9°37 | 9° 4 | W 2 |
| T 3 | 8 51 15 | 13°57'32 | 6♉55 | 2° 4 | 27°21 | 20°18 | 24°21 | 21°52 | 11°21 | 29°22 | 15°12 | 27°18 | 26°37 | 9°44 | 9° 9 | T 3 |
| F 4 | 8 55 11 | 14°58'18 | 20° 1 | 3°41 | 28°19 | 20°58 | 24°29 | 21°48 | 11°24 | 29°24 | 15°11 | 27°D18 | 26°34 | 9°51 | 9°13 | F 4 |
| S 5 | 8 59 8 | 15°59'02 | 3♊31 | 5°20 | 29°17 | 21°39 | 24°39 | 21°45 | 11°27 | 29°26 | 15°11 | 27°19 | 26°31 | 9°57 | 9°18 | S 5 |
| S 6 | 9 3 4 | 16°59'44 | 17°26 | 6°58 | 0♑16 | 22°19 | 24°48 | 21°42 | 11°30 | 29°28 | 15°10 | 27°20 | 26°28 | 10° 4 | 9°22 | S 6 |
| M 7 | 9 7 1 | 18° 0'25 | 1♋47 | 8°38 | 1°16 | 23° 0 | 24°57 | 21°38 | 11°33 | 29°29 | 15°10 | 27°21 | 26°25 | 10°11 | 9°26 | M 7 |
| T 8 | 9 10 57 | 19° 1'04 | 16°31 | 10°19 | 2°16 | 23°40 | 25° 7 | 21°35 | 11°36 | 29°31 | 15° 9 | 27°22 | 26°21 | 10°17 | 9°30 | T 8 |
| W 9 | 9 14 54 | 20° 1'41 | 1♌33 | 12° 0 | 3°16 | 24°21 | 25°16 | 21°31 | 11°39 | 29°32 | 15° 9 | 27°R22 | 26°18 | 10°24 | 9°35 | W 9 |
| T 10 | 9 18 51 | 21° 2'17 | 16°46 | 13°42 | 4°17 | 25° 1 | 25°26 | 21°27 | 11°42 | 29°34 | 15° 8 | 27°22 | 26°15 | 10°31 | 9°39 | T 10 |
| F 11 | 9 22 47 | 22° 2'51 | 2♍ 0 | 15°25 | 5°18 | 25°42 | 25°36 | 21°24 | 11°45 | 29°36 | 15° 8 | 27°19 | 26°12 | 10°37 | 9°42 | F 11 |
| S 12 | 9 26 44 | 23° 3'24 | 17° 5 | 17° 9 | 6°19 | 26°22 | 25°46 | 21°20 | 11°48 | 29°37 | 15° 8 | 27°16 | 26° 9 | 10°44 | 9°46 | S 12 |
| S 13 | 9 30 40 | 24° 3'55 | 1♎51 | 18°54 | 7°21 | 27° 3 | 25°56 | 21°16 | 11°51 | 29°39 | 15° 7 | 27°12 | 26° 6 | 10°50 | 9°50 | S 13 |
| M14 | 9 34 37 | 25° 4'25 | 16°13 | 20°40 | 8°23 | 27°43 | 26° 6 | 21°12 | 11°54 | 29°40 | 15° 7 | 27° 8 | 26° 2 | 10°57 | 9°54 | M14 |
| T 15 | 9 38 33 | 26° 4'53 | 0♏ 6 | 22°26 | 9°26 | 28°23 | 26°16 | 21° 8 | 11°56 | 29°42 | 15° 7 | 27° 5 | 25°59 | 11° 4 | 9°57 | T 15 |
| W16 | 9 42 30 | 27° 5'21 | 13°31 | 24°14 | 10°28 | 29° 4 | 26°26 | 21° 4 | 11°59 | 29°43 | 15° 7 | 27° 3 | 25°56 | 11°10 | 10° 1 | W16 |
| T 17 | 9 46 26 | 28° 5'47 | 26°29 | 26° 3 | 11°31 | 29°44 | 26°37 | 21° 0 | 12° 2 | 29°44 | 15° 6 | 27°D 2 | 25°53 | 11°17 | 10° 4 | T 17 |
| F 18 | 9 50 23 | 29° 6'12 | 9♐ 3 | 27°52 | 12°35 | 0♉25 | 26°48 | 20°55 | 12° 5 | 29°46 | 15° 6 | 27° 2 | 25°50 | 11°24 | 10° 7 | F 18 |
| S 19 | 9 54 20 | 0♓ 6'35 | 21°19 | 29°42 | 13°38 | 1° 5 | 26°58 | 20°51 | 12° 7 | 29°47 | 15° 6 | 27° 4 | 25°47 | 11°30 | 10°10 | S 19 |
| S 20 | 9 58 16 | 1° 6'57 | 3♑20 | 1♓34 | 14°42 | 1°45 | 27° 9 | 20°47 | 12°10 | 29°49 | 15° 6 | 27° 6 | 25°43 | 11°37 | 10°13 | S 20 |
| M21 | 10 2 13 | 2° 7'17 | 15°13 | 3°26 | 15°46 | 2°26 | 27°20 | 20°43 | 12°13 | 29°50 | 15° 5 | 27° 7 | 25°40 | 11°44 | 10°16 | M21 |
| T 22 | 10 6 9 | 3° 7'36 | 27° 0 | 5°19 | 16°51 | 3° 6 | 27°31 | 20°38 | 12°15 | 29°51 | 15° 5 | 27°R 8 | 25°37 | 11°50 | 10°19 | T 22 |
| W23 | 10 10 6 | 4° 7'54 | 8♒46 | 7°12 | 17°55 | 3°46 | 27°42 | 20°34 | 12°18 | 29°52 | 15° 5 | 27° 7 | 25°34 | 11°57 | 10°22 | W23 |
| T 24 | 10 14 2 | 5° 8'09 | 20°34 | 9° 7 | 19° 0 | 4°26 | 27°54 | 20°29 | 12°20 | 29°54 | 15° 5 | 27° 4 | 25°31 | 12° 4 | 10°25 | T 24 |
| F 25 | 10 17 59 | 6° 8'23 | 2♓26 | 11° 1 | 20° 5 | 5° 7 | 28° 5 | 20°25 | 12°23 | 29°55 | 15° 5 | 27° 0 | 25°27 | 12°10 | 10°27 | F 25 |
| S 26 | 10 21 55 | 7° 8'35 | 14°24 | 12°57 | 21°11 | 5°47 | 28°16 | 20°20 | 12°25 | 29°56 | 15° 5 | 26°53 | 25°24 | 12°17 | 10°30 | S 26 |
| S 27 | 10 25 52 | 8° 8'45 | 26°30 | 14°52 | 22°16 | 6°27 | 28°28 | 20°16 | 12°28 | 29°57 | 15° 5 | 26°46 | 25°21 | 12°24 | 10°32 | S 27 |
| M28 | 10 29 49 | 9° 8'53 | 8♈46 | 16°48 | 23°22 | 7° 7 | 28°39 | 20°11 | 12°30 | 29°58 | 15°D 5 | 26°38 | 25°18 | 12°30 | 10°34 | M28 |
| T 29 | 10 33 45 | 10♓ 8'59 | 21♈11 | 18♓44 | 24♑28 | 7♉48 | 28♈51 | 20♍ 6 | 12♑32 | 29♐59 | 15♊ 5 | 26♑30 | 25♑15 | 12♒37 | 10♐37 | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s15 | 9n18 | 5n 5 | 22s 5 | 1s42 | 19s27 | 3n57 | 7n42 | 0n17 | 8n18 | 1s 7 | 5n18 | 2n18 | 23s21 | 0s21 | 22s21 | 1n 8 | 13n59 | 8s44 | 20s44 | 20s51 | 16s48 | 17s51 | 4n 2 |
| W 2 | 16 58 | 14 16 | 5 16 | 21 48 | 1 45 | 19 33 | 3 53 | 7 58 | 0 18 | 8 22 | 1 7 | 5 20 | 2 18 | 23 21 | 0 21 | 22 21 | 1 8 | 13 59 | 8 44 | 20 44 | 20 52 | 16 46 | 17 51 | 4 3 |
| T 3 | 16 40 | 18 45 | 5 12 | 21 30 | 1 49 | 19 38 | 3 50 | 8 14 | 0 19 | 8 25 | 1 7 | 5 21 | 2 18 | 23 20 | 0 21 | 22 21 | 1 8 | 13 59 | 8 43 | 20 44 | 20 52 | 16 43 | 17 51 | 4 4 |
| F 4 | 16 23 | 22 28 | 4 52 | 21 11 | 1 52 | 19 43 | 3 46 | 8 30 | 0 20 | 8 29 | 1 6 | 5 23 | 2 19 | 23 20 | 0 21 | 22 21 | 1 8 | 13 59 | 8 43 | 20 44 | 20 53 | 16 41 | 17 51 | 4 4 |
| S 5 | 16 5 | 25 5 | 4 16 | 20 50 | 1 55 | 19 47 | 3 42 | 8 46 | 0 20 | 8 32 | 1 6 | 5 24 | 2 19 | 23 20 | 0 21 | 22 21 | 1 8 | 14 0 | 8 43 | 20 44 | 20 53 | 16 38 | 17 51 | 4 5 |
| S 6 | 15 46 | 26 16 | 3 23 | 20 28 | 1 58 | 19 52 | 3 38 | 9 2 | 0 21 | 8 36 | 1 6 | 5 26 | 2 19 | 23 20 | 0 21 | 22 21 | 1 8 | 14 0 | 8 43 | 20 44 | 20 54 | 16 35 | 17 51 | 4 5 |
| M 7 | 15 28 | 25 45 | 2 17 | 20 4 | 2 0 | 19 55 | 3 33 | 9 18 | 0 22 | 8 40 | 1 6 | 5 27 | 2 19 | 23 19 | 0 21 | 22 21 | 1 8 | 14 0 | 8 43 | 20 44 | 20 55 | 16 33 | 17 51 | 4 6 |
| T 8 | 15 9 | 23 27 | 1 0 | 19 39 | 2 2 | 19 59 | 3 29 | 9 34 | 0 23 | 8 43 | 1 5 | 5 29 | 2 19 | 23 19 | 0 21 | 22 21 | 1 8 | 14 0 | 8 42 | 20 44 | 20 55 | 16 30 | 17 51 | 4 6 |
| W 9 | 14 50 | 19 29 | 0s23 | 19 12 | 2 3 | 20 2 | 3 25 | 9 49 | 0 24 | 8 47 | 1 5 | 5 30 | 2 20 | 23 19 | 0 21 | 22 21 | 1 8 | 14 0 | 8 42 | 20 44 | 20 56 | 16 27 | 17 51 | 4 7 |
| T 10 | 14 31 | 14 10 | 1 45 | 18 44 | 2 5 | 20 5 | 3 20 | 10 5 | 0 25 | 8 51 | 1 5 | 5 32 | 2 20 | 23 19 | 0 21 | 22 21 | 1 8 | 14 0 | 8 42 | 20 44 | 20 56 | 16 25 | 17 51 | 4 8 |
| F 11 | 14 11 | 7 59 | 2 59 | 18 14 | 2 5 | 20 7 | 3 16 | 10 21 | 0 25 | 8 54 | 1 5 | 5 34 | 2 20 | 23 18 | 0 21 | 22 21 | 1 8 | 14 1 | 8 42 | 20 44 | 20 57 | 16 22 | 17 51 | 4 8 |
| S 12 | 13 51 | 1 25 | 4 0 | 17 43 | 2 6 | 20 9 | 3 11 | 10 36 | 0 26 | 8 58 | 1 5 | 5 35 | 2 20 | 23 18 | 0 21 | 22 21 | 1 8 | 14 1 | 8 42 | 20 45 | 20 58 | 16 20 | 17 51 | 4 9 |
| S 13 | 13 32 | 5s 5 | 4 44 | 17 10 | 2 5 | 20 10 | 3 7 | 10 51 | 0 27 | 9 2 | 1 4 | 5 37 | 2 20 | 23 18 | 0 21 | 22 21 | 1 8 | 14 1 | 8 41 | 20 46 | 20 58 | 16 17 | 17 51 | 4 9 |
| M14 | 13 11 | 11 8 | 5 8 | 16 36 | 2 5 | 20 11 | 3 2 | 11 7 | 0 28 | 9 6 | 1 4 | 5 39 | 2 21 | 23 18 | 0 21 | 22 21 | 1 8 | 14 1 | 8 41 | 20 46 | 20 59 | 16 14 | 17 51 | 4 10 |
| T 15 | 12 51 | 16 25 | 5 14 | 16 1 | 2 4 | 20 12 | 2 58 | 11 22 | 0 28 | 9 10 | 1 4 | 5 41 | 2 21 | 23 18 | 0 21 | 22 21 | 1 8 | 14 1 | 8 41 | 20 47 | 20 59 | 16 12 | 17 51 | 4 11 |
| W16 | 12 30 | 20 42 | 5 1 | 15 23 | 2 2 | 20 12 | 2 53 | 11 37 | 0 29 | 9 14 | 1 4 | 5 42 | 2 21 | 23 17 | 0 21 | 22 21 | 1 8 | 14 2 | 8 41 | 20 47 | 21 0 | 16 9 | 17 51 | 4 11 |
| T 17 | 12 9 | 23 50 | 4 34 | 14 45 | 2 0 | 20 11 | 2 48 | 11 52 | 0 30 | 9 18 | 1 3 | 5 44 | 2 21 | 23 17 | 0 21 | 22 21 | 1 8 | 14 2 | 8 40 | 20 48 | 21 1 | 16 6 | 17 51 | 4 12 |
| F 18 | 11 48 | 25 42 | 3 54 | 14 5 | 1 58 | 20 11 | 2 44 | 12 7 | 0 31 | 9 22 | 1 3 | 5 46 | 2 21 | 23 17 | 0 21 | 22 21 | 1 8 | 14 2 | 8 40 | 20 47 | 21 1 | 16 4 | 17 51 | 4 12 |
| S 19 | 11 27 | 26 15 | 3 4 | 13 23 | 1 55 | 20 9 | 2 39 | 12 22 | 0 31 | 9 26 | 1 3 | 5 48 | 2 21 | 23 17 | 0 21 | 22 21 | 1 8 | 14 2 | 8 40 | 20 47 | 21 2 | 16 1 | 17 51 | 4 13 |
| S 20 | 11 6 | 25 33 | 2 7 | 12 40 | 1 51 | 20 7 | 2 34 | 12 36 | 0 32 | 9 30 | 1 3 | 5 50 | 2 22 | 23 16 | 0 21 | 22 21 | 1 8 | 14 2 | 8 40 | 20 47 | 21 2 | 15 59 | 17 50 | 4 14 |
| M21 | 10 44 | 23 41 | 1 5 | 11 56 | 1 47 | 20 5 | 2 29 | 12 51 | 0 33 | 9 34 | 1 3 | 5 52 | 2 22 | 23 16 | 0 21 | 22 21 | 1 8 | 14 3 | 8 39 | 20 46 | 21 3 | 15 56 | 17 50 | 4 14 |
| T 22 | 10 23 | 20 49 | 0 1 | 11 10 | 1 43 | 20 2 | 2 24 | 13 6 | 0 33 | 9 38 | 1 2 | 5 53 | 2 22 | 23 16 | 0 21 | 22 21 | 1 8 | 14 3 | 8 39 | 20 46 | 21 4 | 15 53 | 17 50 | 4 15 |
| W23 | 10 1 | 17 5 | 1n 3 | 10 23 | 1 37 | 19 59 | 2 19 | 13 20 | 0 34 | 9 43 | 1 2 | 5 55 | 2 22 | 23 16 | 0 21 | 22 21 | 1 8 | 14 3 | 8 39 | 20 47 | 21 4 | 15 51 | 17 50 | 4 15 |
| T 24 | 9 39 | 12 42 | 2 4 | 9 35 | 1 31 | 19 55 | 2 15 | 13 34 | 0 35 | 9 47 | 1 2 | 5 57 | 2 22 | 23 16 | 0 21 | 22 21 | 1 8 | 14 3 | 8 39 | 20 47 | 21 5 | 15 48 | 17 50 | 4 16 |
| F 25 | 9 17 | 7 49 | 3 0 | 8 45 | 1 25 | 19 50 | 2 10 | 13 48 | 0 35 | 9 51 | 1 2 | 5 59 | 2 22 | 23 15 | 0 21 | 22 21 | 1 8 | 14 3 | 8 39 | 20 48 | 21 5 | 15 45 | 17 49 | 4 17 |
| S 26 | 8 54 | 2 38 | 3 49 | 7 55 | 1 18 | 19 45 | 2 5 | 14 3 | 0 36 | 9 55 | 1 2 | 6 1 | 2 22 | 23 15 | 0 21 | 22 21 | 1 8 | 14 4 | 8 38 | 20 49 | 21 6 | 15 43 | 17 49 | 4 17 |
| S 27 | 8 32 | 2n42 | 4 27 | 7 3 | 1 10 | 19 40 | 2 0 | 14 17 | 0 37 | 10 0 | 1 1 | 6 3 | 2 22 | 23 15 | 0 21 | 22 21 | 1 8 | 14 4 | 8 38 | 20 51 | 21 7 | 15 40 | 17 49 | 4 18 |
| M28 | 8 9 | 7 59 | 4 54 | 6 11 | 1 2 | 19 34 | 1 55 | 14 30 | 0 37 | 10 4 | 1 1 | 6 5 | 2 23 | 23 15 | 0 21 | 22 21 | 1 8 | 14 4 | 8 38 | 20 52 | 21 7 | 15 37 | 17 48 | 4 19 |
| T 29 | 7s47 | 13n 1 | 5n 7 | 5s17 | 0s53 | 19s28 | 1n50 | 14n44 | 0n38 | 10n 8 | 1s 1 | 6n 7 | 2n23 | 23s15 | 0s21 | 22s21 | 1n 8 | 14n 4 | 8s38 | 20s54 | 21s 8 | 15s35 | 17s48 | 4n19 |

Julian Day Number = 2325932.5, Delta T = 39.08 sec
Ecliptic obliquity = 23°29'07, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'24, Lahiri = 19°03'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## MARCH 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 37 42 | 11♓ 9'03 | 3♉48 | 20♓39 | 25♑34 | 8♉28 | 29♈ 3 | 20°R 2 | 12♑35 | 0♑ 0 | 15♊ 5 | 26°R23 | 25♑12 | 12♒44 | 10♐39 | W 1 |
| T 2 | 10 41 38 | 12° 9'05 | 16°39 | 22°34 | 26°40 | 9° 8 | 29°15 | 19♍57 | 12°37 | 0° 1 | 15° 5 | 26♑18 | 25° 8 | 12°50 | 10°41 | T 2 |
| F 3 | 10 45 35 | 13° 9'05 | 29°46 | 24°28 | 27°47 | 9°48 | 29°27 | 19°52 | 12°39 | 0° 2 | 15° 5 | 26°15 | 25° 5 | 12°57 | 10°43 | F 3 |
| S 4 | 10 49 31 | 14° 9'03 | 13♊10 | 26°20 | 28°53 | 10°28 | 29°39 | 19°48 | 12°41 | 0° 3 | 15° 5 | 26°D14 | 25° 2 | 13° 4 | 10°44 | S 4 |
| S 5 | 10 53 28 | 15° 8'59 | 26°53 | 28°11 | 0♒ 0 | 11° 8 | 29°51 | 19°43 | 12°43 | 0° 4 | 15° 5 | 26°15 | 24°59 | 13°10 | 10°46 | S 5 |
| M 6 | 10 57 24 | 16° 8'52 | 10♋58 | 0♈ 0 | 1° 7 | 11°48 | 0♉ 3 | 19°38 | 12°45 | 0° 5 | 15° 6 | 26°16 | 24°56 | 13°17 | 10°48 | M 6 |
| T 7 | 11 1 21 | 17° 8'43 | 25°22 | 1°47 | 2°14 | 12°28 | 0°15 | 19°33 | 12°47 | 0° 6 | 15° 6 | 26°R16 | 24°53 | 13°23 | 10°49 | T 7 |
| W 8 | 11 5 18 | 18° 8'32 | 10♌ 5 | 3°30 | 3°22 | 13° 8 | 0°28 | 19°29 | 12°49 | 0° 7 | 15° 6 | 26°16 | 24°49 | 13°30 | 10°51 | W 8 |
| T 9 | 11 9 14 | 19° 8'19 | 25° 2 | 5°10 | 4°29 | 13°48 | 0°40 | 19°24 | 12°51 | 0° 7 | 15° 6 | 26°13 | 24°46 | 13°37 | 10°52 | T 9 |
| F 10 | 11 13 11 | 20° 8'03 | 10♍ 4 | 6°47 | 5°37 | 14°28 | 0°53 | 19°19 | 12°53 | 0° 8 | 15° 6 | 26° 7 | 24°43 | 13°43 | 10°53 | F 10 |
| S 11 | 11 17 7 | 21° 7'45 | 25° 3 | 8°18 | 6°44 | 15° 8 | 1° 5 | 19°14 | 12°55 | 0° 9 | 15° 7 | 26° 0 | 24°40 | 13°50 | 10°54 | S 11 |
| S 12 | 11 21 4 | 22° 7'26 | 9♎49 | 9°45 | 7°52 | 15°48 | 1°18 | 19°10 | 12°57 | 0° 9 | 15° 7 | 25°51 | 24°37 | 13°57 | 10°55 | S 12 |
| M13 | 11 25 0 | 23° 7'04 | 24°16 | 11° 6 | 9° 0 | 16°28 | 1°31 | 19° 5 | 12°59 | 0°10 | 15° 7 | 25°42 | 24°33 | 14° 3 | 10°56 | M13 |
| T 14 | 11 28 57 | 24° 6'41 | 8♏16 | 12°22 | 10° 8 | 17° 8 | 1°43 | 19° 0 | 13° 0 | 0°11 | 15° 8 | 25°34 | 24°30 | 14°10 | 10°57 | T 14 |
| W15 | 11 32 53 | 25° 6'16 | 21°48 | 13°31 | 11°16 | 17°48 | 1°56 | 18°55 | 13° 2 | 0°11 | 15° 8 | 25°27 | 24°27 | 14°17 | 10°58 | W15 |
| T 16 | 11 36 50 | 26° 5'49 | 4♐52 | 14°34 | 12°25 | 18°28 | 2° 9 | 18°51 | 13° 4 | 0°12 | 15° 8 | 25°22 | 24°24 | 14°23 | 10°58 | T 16 |
| F 17 | 11 40 47 | 27° 5'20 | 17°31 | 15°30 | 13°33 | 19° 8 | 2°22 | 18°46 | 13° 5 | 0°12 | 15° 9 | 25°20 | 24°21 | 14°30 | 10°59 | F 17 |
| S 18 | 11 44 43 | 28° 4'50 | 29°49 | 16°18 | 14°42 | 19°48 | 2°35 | 18°41 | 13° 7 | 0°13 | 15° 9 | 25°D20 | 24°18 | 14°37 | 10°59 | S 18 |
| S 19 | 11 48 40 | 29° 4'18 | 11♑51 | 17° 0 | 15°51 | 20°27 | 2°48 | 18°37 | 13° 8 | 0°13 | 15°10 | 25°20 | 24°14 | 14°43 | 10°59 | S 19 |
| M20 | 11 52 36 | 0♈ 3'44 | 23°43 | 17°33 | 16°59 | 21° 7 | 3° 1 | 18°32 | 13°10 | 0°14 | 15°10 | 25°R21 | 24°11 | 14°50 | 11° 0 | M20 |
| T 21 | 11 56 33 | 1° 3'08 | 5♒29 | 18° 0 | 18° 8 | 21°47 | 3°14 | 18°28 | 13°11 | 0°14 | 15°10 | 25°20 | 24° 8 | 14°57 | 11°R 0 | T 21 |
| W22 | 12 0 29 | 2° 2'30 | 17°16 | 18°18 | 19°17 | 22°27 | 3°28 | 18°23 | 13°12 | 0°14 | 15°11 | 25°18 | 24° 5 | 15° 3 | 11° 0 | W22 |
| T 23 | 12 4 26 | 3° 1'51 | 29° 7 | 18°29 | 20°26 | 23° 6 | 3°41 | 18°18 | 13°14 | 0°15 | 15°12 | 25°13 | 24° 2 | 15°10 | 10°59 | T 23 |
| F 24 | 12 8 22 | 4° 1'09 | 11♓ 5 | 18°R33 | 21°36 | 23°46 | 3°54 | 18°14 | 13°15 | 0°15 | 15°12 | 25° 5 | 23°58 | 15°17 | 10°59 | F 24 |
| S 25 | 12 12 19 | 5° 0'26 | 23°12 | 18°29 | 22°45 | 24°26 | 4° 8 | 18° 9 | 13°16 | 0°15 | 15°13 | 24°55 | 23°55 | 15°23 | 10°59 | S 25 |
| S 26 | 12 16 15 | 5°59'40 | 5♈31 | 18°18 | 23°54 | 25° 5 | 4°21 | 18° 5 | 13°17 | 0°16 | 15°13 | 24°43 | 23°52 | 15°30 | 10°58 | S 26 |
| M27 | 12 20 12 | 6°58'53 | 18° 2 | 18° 0 | 25° 4 | 25°45 | 4°34 | 18° 1 | 13°18 | 0°16 | 15°14 | 24°30 | 23°49 | 15°37 | 10°58 | M27 |
| T 28 | 12 24 9 | 7°58'03 | 0♉45 | 17°37 | 26°13 | 26°25 | 4°48 | 17°56 | 13°19 | 0°16 | 15°14 | 24°17 | 23°46 | 15°43 | 10°57 | T 28 |
| W29 | 12 28 5 | 8°57'11 | 13°40 | 17° 7 | 27°23 | 27° 4 | 5° 2 | 17°52 | 13°20 | 0°16 | 15°15 | 24° 6 | 23°43 | 15°50 | 10°57 | W29 |
| T 30 | 12 32 2 | 9°56'17 | 26°46 | 16°33 | 28°33 | 27°44 | 5°15 | 17°48 | 13°21 | 0°16 | 15°16 | 23°57 | 23°39 | 15°56 | 10°56 | T 30 |
| F 31 | 12 35 58 | 10♈55'21 | 10♊ 4 | 15♈55 | 29♒42 | 28♉23 | 5♉29 | 17♍44 | 13♑22 | 0♑16 | 15♊16 | 23♑51 | 23♑36 | 16♒ 3 | 10♐55 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 7s24 | 17n36 | 5n 6 | 4s23 | 0s44 | 19s21 | 1n45 | 14n58 | 0n39 | 10n13 | 1s 1 | 6n 9 | 2n23 | 23s14 | 0s21 | 22s21 | 1n 8 | 14n 5 | 8s37 | 20s55 | 21s 8 | 15s32 | 17s48 | 4n20 |
| T 2 | 7 1 | 21 28 | 4 50 | 3 29 | 0 34 | 19 13 | 1 40 | 15 11 | 0 39 | 10 17 | 1 1 | 6 11 | 2 23 | 23 14 | 0 21 | 22 21 | 1 9 | 14 5 | 8 37 | 20 56 | 21 9 | 15 29 | 17 47 | 4 21 |
| F 3 | 6 38 | 24 20 | 4 18 | 2 34 | 0 24 | 19 5 | 1 36 | 15 25 | 0 40 | 10 21 | 1 0 | 6 13 | 2 23 | 23 14 | 0 21 | 22 21 | 1 9 | 14 5 | 8 37 | 20 56 | 21 9 | 15 27 | 17 47 | 4 21 |
| S 4 | 6 15 | 25 55 | 3 31 | 1 39 | 0 13 | 18 56 | 1 31 | 15 38 | 0 40 | 10 26 | 1 0 | 6 15 | 2 23 | 23 14 | 0 21 | 22 21 | 1 9 | 14 5 | 8 37 | 20 57 | 21 10 | 15 24 | 17 47 | 4 22 |
| S 5 | 5 52 | 25 59 | 2 32 | 0 44 | 0 1 | 18 47 | 1 26 | 15 51 | 0 41 | 10 30 | 1 0 | 6 16 | 2 23 | 23 14 | 0 21 | 22 21 | 1 9 | 14 6 | 8 36 | 20 57 | 21 11 | 15 21 | 17 46 | 4 23 |
| M 6 | 5 28 | 24 23 | 1 22 | 0n10 | 0n11 | 18 38 | 1 21 | 16 4 | 0 42 | 10 35 | 1 0 | 6 18 | 2 23 | 23 13 | 0 21 | 22 20 | 1 9 | 14 6 | 8 36 | 20 56 | 21 11 | 15 18 | 17 46 | 4 23 |
| T 7 | 5 5 | 21 11 | 0 5 | 1 4 | 0 23 | 18 28 | 1 16 | 16 17 | 0 42 | 10 39 | 1 0 | 6 20 | 2 23 | 23 13 | 0 21 | 22 20 | 1 9 | 14 6 | 8 36 | 20 56 | 21 12 | 15 16 | 17 45 | 4 24 |
| W 8 | 4 42 | 16 34 | 1s14 | 1 57 | 0 36 | 18 17 | 1 11 | 16 30 | 0 43 | 10 44 | 1 0 | 6 22 | 2 23 | 23 13 | 0 21 | 22 20 | 1 9 | 14 6 | 8 36 | 20 56 | 21 12 | 15 13 | 17 45 | 4 24 |
| T 9 | 4 18 | 10 53 | 2 28 | 2 48 | 0 49 | 18 6 | 1 7 | 16 42 | 0 43 | 10 48 | 0 59 | 6 24 | 2 23 | 23 13 | 0 21 | 22 20 | 1 9 | 14 7 | 8 35 | 20 57 | 21 13 | 15 10 | 17 44 | 4 25 |
| F 10 | 3 55 | 4 31 | 3 33 | 3 38 | 1 2 | 17 54 | 1 2 | 16 55 | 0 44 | 10 53 | 0 59 | 6 26 | 2 24 | 23 13 | 0 21 | 22 20 | 1 9 | 14 7 | 8 35 | 20 58 | 21 13 | 15 8 | 17 44 | 4 26 |
| S 11 | 3 31 | 2s 3 | 4 23 | 4 27 | 1 15 | 17 42 | 0 57 | 17 7 | 0 44 | 10 57 | 0 59 | 6 28 | 2 24 | 23 13 | 0 21 | 22 20 | 1 9 | 14 7 | 8 35 | 20 59 | 21 14 | 15 5 | 17 43 | 4 26 |
| S 12 | 3 8 | 8 24 | 4 54 | 5 13 | 1 28 | 17 29 | 0 53 | 17 19 | 0 45 | 11 2 | 0 59 | 6 30 | 2 24 | 23 12 | 0 21 | 22 20 | 1 9 | 14 7 | 8 35 | 21 1 | 21 15 | 15 2 | 17 43 | 4 27 |
| M13 | 2 44 | 14 9 | 5 5 | 5 57 | 1 41 | 17 16 | 0 48 | 17 31 | 0 45 | 11 6 | 0 59 | 6 32 | 2 24 | 23 12 | 0 21 | 22 20 | 1 9 | 14 8 | 8 35 | 21 3 | 21 15 | 15 0 | 17 42 | 4 28 |
| T 14 | 2 21 | 18 59 | 4 58 | 6 38 | 1 53 | 17 2 | 0 43 | 17 43 | 0 46 | 11 11 | 0 59 | 6 34 | 2 24 | 23 12 | 0 21 | 22 20 | 1 9 | 14 8 | 8 34 | 21 4 | 21 16 | 14 57 | 17 42 | 4 28 |
| W15 | 1 57 | 22 39 | 4 34 | 7 16 | 2 6 | 16 48 | 0 39 | 17 55 | 0 47 | 11 15 | 0 58 | 6 36 | 2 24 | 23 12 | 0 21 | 22 20 | 1 9 | 14 8 | 8 34 | 21 5 | 21 16 | 14 54 | 17 41 | 4 29 |
| T 16 | 1 33 | 25 1 | 3 56 | 7 51 | 2 17 | 16 34 | 0 34 | 18 7 | 0 47 | 11 20 | 0 58 | 6 37 | 2 24 | 23 12 | 0 21 | 22 20 | 1 9 | 14 8 | 8 34 | 21 6 | 21 17 | 14 51 | 17 41 | 4 30 |
| F 17 | 1 10 | 26 1 | 3 8 | 8 23 | 2 28 | 16 18 | 0 30 | 18 18 | 0 48 | 11 24 | 0 58 | 6 39 | 2 24 | 23 12 | 0 21 | 22 20 | 1 9 | 14 9 | 8 34 | 21 7 | 21 17 | 14 49 | 17 40 | 4 30 |
| S 18 | 0 46 | 25 41 | 2 12 | 8 52 | 2 39 | 16 3 | 0 26 | 18 29 | 0 48 | 11 29 | 0 58 | 6 41 | 2 24 | 23 12 | 0 22 | 22 20 | 1 9 | 14 9 | 8 33 | 21 7 | 21 18 | 14 46 | 17 40 | 4 31 |
| S 19 | 0 22 | 24 9 | 1 12 | 9 17 | 2 48 | 15 47 | 0 21 | 18 41 | 0 48 | 11 34 | 0 58 | 6 43 | 2 24 | 23 12 | 0 22 | 22 20 | 1 9 | 14 9 | 8 33 | 21 7 | 21 18 | 14 43 | 17 39 | 4 32 |
| M20 | 0n 1 | 21 33 | 0 9 | 9 38 | 2 57 | 15 30 | 0 17 | 18 52 | 0 49 | 11 38 | 0 58 | 6 45 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 10 | 8 33 | 21 7 | 21 19 | 14 41 | 17 38 | 4 32 |
| T 21 | 0 25 | 18 4 | 0n54 | 9 55 | 3 4 | 15 13 | 0 13 | 19 2 | 0 49 | 11 43 | 0 58 | 6 47 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 10 | 8 33 | 21 7 | 21 20 | 14 38 | 17 38 | 4 33 |
| W22 | 0 49 | 13 53 | 1 54 | 10 8 | 3 11 | 14 56 | 0 8 | 19 13 | 0 50 | 11 48 | 0 57 | 6 48 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 10 | 8 32 | 21 7 | 21 20 | 14 35 | 17 37 | 4 34 |
| T 23 | 1 12 | 9 9 | 2 50 | 10 16 | 3 16 | 14 38 | 0 4 | 19 24 | 0 50 | 11 52 | 0 57 | 6 50 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 10 | 8 32 | 21 8 | 21 21 | 14 32 | 17 36 | 4 34 |
| F 24 | 1 36 | 4 4 | 3 38 | 10 21 | 3 20 | 14 20 | 0 0 | 19 34 | 0 51 | 11 57 | 0 57 | 6 52 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 11 | 8 32 | 21 9 | 21 21 | 14 30 | 17 36 | 4 35 |
| S 25 | 2 0 | 1n14 | 4 17 | 10 22 | 3 22 | 14 1 | 0s 4 | 19 44 | 0 51 | 12 2 | 0 57 | 6 54 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 11 | 8 32 | 21 11 | 21 22 | 14 27 | 17 35 | 4 36 |
| S 26 | 2 23 | 6 33 | 4 45 | 10 18 | 3 22 | 13 42 | 0 8 | 19 55 | 0 52 | 12 6 | 0 57 | 6 55 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 11 | 8 32 | 21 13 | 21 22 | 14 24 | 17 34 | 4 36 |
| M27 | 2 47 | 11 42 | 4 59 | 10 11 | 3 22 | 13 23 | 0 12 | 20 5 | 0 52 | 12 11 | 0 57 | 6 57 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 11 | 8 31 | 21 16 | 21 23 | 14 21 | 17 34 | 4 37 |
| T 28 | 3 10 | 16 26 | 4 59 | 9 59 | 3 19 | 13 3 | 0 16 | 20 14 | 0 52 | 12 15 | 0 57 | 6 59 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 12 | 8 31 | 21 18 | 21 23 | 14 19 | 17 33 | 4 38 |
| W29 | 3 33 | 20 29 | 4 44 | 9 44 | 3 15 | 12 42 | 0 19 | 20 24 | 0 53 | 12 20 | 0 56 | 7 0 | 2 24 | 23 11 | 0 22 | 22 20 | 1 9 | 14 12 | 8 31 | 21 20 | 21 24 | 14 16 | 17 32 | 4 38 |
| T 30 | 3 57 | 23 35 | 4 14 | 9 25 | 3 9 | 12 22 | 0 23 | 20 33 | 0 53 | 12 25 | 0 56 | 7 2 | 2 23 | 23 11 | 0 22 | 22 20 | 1 9 | 14 12 | 8 31 | 21 21 | 21 25 | 14 13 | 17 31 | 4 39 |
| F 31 | 4n20 | 25n27 | 3n29 | 9n 4 | 3n 1 | 12s 1 | 0s27 | 20n43 | 0n54 | 12n29 | 0s56 | 7n 4 | 2n23 | 23s10 | 0s22 | 22s20 | 1n 9 | 14n13 | 8s31 | 21s23 | 21s25 | 14s11 | 17s31 | 4n39 |

Julian Day Number = 2325961.5, Delta T = 39.02 sec
Ecliptic obliquity = 23°29'07, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'28, Lahiri = 19°03'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## APRIL 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 39 55 | 11♈54'23 | 23♊34 | 15°R13 | 0♓52 | 29♉ 3 | 5♉42 | 17°R39 | 13♑23 | 0°R16 | 15♊17 | 23°R48 | 23♑33 | 16♒10 | 10°R54 | S 1 |
| S 2 | 12 43 51 | 12°53'22 | 7♋17 | 14♈29 | 2° 2 | 29°42 | 5°56 | 17♍35 | 13°24 | 0♑16 | 15°18 | 23♑47 | 23°30 | 16°16 | 10♐53 | S 2 |
| M 3 | 12 47 48 | 13°52'19 | 21°13 | 13°43 | 3°12 | 0♊22 | 6°10 | 17°31 | 13°24 | 0°16 | 15°19 | 23°47 | 23°27 | 16°23 | 10°51 | M 3 |
| T 4 | 12 51 44 | 14°51'14 | 5♌23 | 12°56 | 4°22 | 1° 1 | 6°24 | 17°27 | 13°25 | 0°16 | 15°19 | 23°47 | 23°24 | 16°30 | 10°50 | T 4 |
| W 5 | 12 55 41 | 15°50'06 | 19°46 | 12°10 | 5°32 | 1°41 | 6°38 | 17°24 | 13°26 | 0°16 | 15°20 | 23°45 | 23°20 | 16°36 | 10°49 | W 5 |
| T 6 | 12 59 38 | 16°48'56 | 4♍19 | 11°24 | 6°42 | 2°20 | 6°51 | 17°20 | 13°26 | 0°16 | 15°21 | 23°41 | 23°17 | 16°43 | 10°47 | T 6 |
| F 7 | 13 3 34 | 17°47'43 | 18°57 | 10°41 | 7°53 | 3° 0 | 7° 5 | 17°16 | 13°27 | 0°16 | 15°22 | 23°34 | 23°14 | 16°50 | 10°46 | F 7 |
| S 8 | 13 7 31 | 18°46'29 | 3♎35 | 10° 0 | 9° 3 | 3°39 | 7°19 | 17°12 | 13°27 | 0°15 | 15°23 | 23°24 | 23°11 | 16°56 | 10°44 | S 8 |
| S 9 | 13 11 27 | 19°45'12 | 18° 5 | 9°23 | 10°13 | 4°18 | 7°33 | 17° 9 | 13°28 | 0°15 | 15°23 | 23°12 | 23° 8 | 17° 3 | 10°42 | S 9 |
| M10 | 13 15 24 | 20°43'53 | 2♏19 | 8°49 | 11°24 | 4°58 | 7°47 | 17° 5 | 13°28 | 0°15 | 15°24 | 23° 1 | 23° 4 | 17°10 | 10°40 | M10 |
| T 11 | 13 19 20 | 21°42'33 | 16°13 | 8°19 | 12°34 | 5°37 | 8° 1 | 17° 2 | 13°28 | 0°14 | 15°25 | 22°49 | 23° 1 | 17°16 | 10°38 | T 11 |
| W12 | 13 23 17 | 22°41'10 | 29°43 | 7°54 | 13°45 | 6°16 | 8°15 | 16°58 | 13°29 | 0°14 | 15°26 | 22°40 | 22°58 | 17°23 | 10°36 | W12 |
| T 13 | 13 27 13 | 23°39'46 | 12♐48 | 7°34 | 14°55 | 6°56 | 8°29 | 16°55 | 13°29 | 0°14 | 15°27 | 22°33 | 22°55 | 17°30 | 10°34 | T 13 |
| F 14 | 13 31 10 | 24°38'21 | 25°29 | 7°18 | 16° 6 | 7°35 | 8°43 | 16°52 | 13°29 | 0°13 | 15°28 | 22°29 | 22°52 | 17°36 | 10°32 | F 14 |
| S 15 | 13 35 7 | 25°36'53 | 7♑49 | 7° 8 | 17°17 | 8°14 | 8°57 | 16°48 | 13°29 | 0°13 | 15°29 | 22°27 | 22°49 | 17°43 | 10°30 | S 15 |
| S 16 | 13 39 3 | 26°35'24 | 19°53 | 7° 3 | 18°27 | 8°53 | 9°11 | 16°45 | 13°29 | 0°12 | 15°30 | 22°26 | 22°45 | 17°50 | 10°27 | S 16 |
| M17 | 13 43 0 | 27°33'53 | 1♒47 | 7°D 3 | 19°38 | 9°32 | 9°26 | 16°42 | 13°R29 | 0°12 | 15°31 | 22°26 | 22°42 | 17°56 | 10°25 | M17 |
| T 18 | 13 46 56 | 28°32'21 | 13°36 | 7° 8 | 20°49 | 10°11 | 9°40 | 16°39 | 13°29 | 0°11 | 15°32 | 22°25 | 22°39 | 18° 3 | 10°22 | T 18 |
| W19 | 13 50 53 | 29°30'47 | 25°25 | 7°18 | 22° 0 | 10°51 | 9°54 | 16°36 | 13°29 | 0°11 | 15°33 | 22°23 | 22°36 | 18°10 | 10°20 | W19 |
| T 20 | 13 54 49 | 0♉29'11 | 7♓19 | 7°32 | 23°11 | 11°30 | 10° 8 | 16°34 | 13°29 | 0°10 | 15°34 | 22°18 | 22°33 | 18°16 | 10°17 | T 20 |
| F 21 | 13 58 46 | 1°27'34 | 19°22 | 7°51 | 24°22 | 12° 9 | 10°22 | 16°31 | 13°29 | 0°10 | 15°35 | 22°11 | 22°30 | 18°23 | 10°14 | F 21 |
| S 22 | 14 2 42 | 2°25'55 | 1♈39 | 8°15 | 25°33 | 12°48 | 10°36 | 16°28 | 13°29 | 0° 9 | 15°36 | 22° 1 | 22°26 | 18°30 | 10°11 | S 22 |
| S 23 | 14 6 39 | 3°24'14 | 14°10 | 8°43 | 26°44 | 13°27 | 10°51 | 16°26 | 13°28 | 0° 8 | 15°37 | 21°49 | 22°23 | 18°36 | 10° 9 | S 23 |
| M24 | 14 10 36 | 4°22'31 | 26°57 | 9°16 | 27°55 | 14° 6 | 11° 5 | 16°24 | 13°28 | 0° 8 | 15°38 | 21°37 | 22°20 | 18°43 | 10° 6 | M24 |
| T 25 | 14 14 32 | 5°20'47 | 9♉59 | 9°52 | 29° 6 | 14°45 | 11°19 | 16°21 | 13°28 | 0° 7 | 15°39 | 21°24 | 22°17 | 18°50 | 10° 3 | T 25 |
| W26 | 14 18 29 | 6°19'01 | 23°16 | 10°32 | 0♈17 | 15°24 | 11°33 | 16°19 | 13°27 | 0° 6 | 15°40 | 21°13 | 22°14 | 18°56 | 9°59 | W26 |
| T 27 | 14 22 25 | 7°17'14 | 6♊44 | 11°16 | 1°28 | 16° 3 | 11°48 | 16°17 | 13°27 | 0° 5 | 15°41 | 21° 4 | 22°10 | 19° 3 | 9°56 | T 27 |
| F 28 | 14 26 22 | 8°15'24 | 20°23 | 12° 3 | 2°40 | 16°42 | 12° 2 | 16°15 | 13°26 | 0° 5 | 15°43 | 20°58 | 22° 7 | 19°10 | 9°53 | F 28 |
| S 29 | 14 30 18 | 9°13'33 | 4♋11 | 12°54 | 3°51 | 17°21 | 12°16 | 16°13 | 13°26 | 0° 4 | 15°44 | 20°55 | 22° 4 | 19°16 | 9°50 | S 29 |
| S 30 | 14 34 15 | 10♉11'39 | 18♋ 5 | 13♈48 | 5♈ 2 | 18♊ 0 | 12♉30 | 16♍11 | 13♑25 | 0♑ 3 | 15♊45 | 20°D54 | 22♑ 1 | 19♒23 | 9♐46 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n43 | 25n52 | 2n33 | 8n39 | 2n52 | 11s39 | 0s30 | 20n52 | 0n54 | 12n34 | 0s56 | 7n 5 | 2n23 | 23s10 | 0s22 | 22s20 | 1n 9 | 14n13 | 8s30 | 21s23 | 21s26 | 14s 8 | 17s30 | 4n40 |
| S 2 | 5 6 | 24 43 | 1 26 | 8 12 | 2 42 | 11 18 | 0 34 | 21 1 | 0 55 | 12 39 | 0 56 | 7 7 | 2 23 | 23 10 | 0 22 | 22 20 | 1 9 | 14 13 | 8 30 | 21 23 | 21 26 | 14 5 | 17 29 | 4 41 |
| M 3 | 5 29 | 22 2 | 0 14 | 7 43 | 2 30 | 10 56 | 0 37 | 21 10 | 0 55 | 12 43 | 0 56 | 7 8 | 2 23 | 23 10 | 0 22 | 22 20 | 1 9 | 14 13 | 8 30 | 21 23 | 21 27 | 14 2 | 17 28 | 4 41 |
| T 4 | 5 52 | 17 58 | 1s 1 | 7 13 | 2 17 | 10 33 | 0 41 | 21 18 | 0 55 | 12 48 | 0 56 | 7 10 | 2 23 | 23 10 | 0 22 | 22 20 | 1 9 | 14 14 | 8 30 | 21 23 | 21 27 | 13 59 | 17 28 | 4 42 |
| W 5 | 6 15 | 12 49 | 2 13 | 6 42 | 2 3 | 10 11 | 0 44 | 21 27 | 0 56 | 12 53 | 0 56 | 7 11 | 2 23 | 23 10 | 0 22 | 22 20 | 1 10 | 14 14 | 8 29 | 21 24 | 21 28 | 13 57 | 17 27 | 4 43 |
| T 6 | 6 37 | 6 54 | 3 17 | 6 10 | 1 48 | 9 48 | 0 47 | 21 35 | 0 56 | 12 57 | 0 56 | 7 13 | 2 23 | 23 10 | 0 22 | 22 20 | 1 10 | 14 14 | 8 29 | 21 24 | 21 28 | 13 54 | 17 26 | 4 43 |
| F 7 | 7 0 | 0 35 | 4 8 | 5 39 | 1 32 | 9 25 | 0 50 | 21 43 | 0 56 | 13 2 | 0 55 | 7 14 | 2 23 | 23 10 | 0 22 | 22 20 | 1 10 | 14 15 | 8 29 | 21 26 | 21 29 | 13 51 | 17 25 | 4 44 |
| S 8 | 7 22 | 5s45 | 4 43 | 5 8 | 1 16 | 9 1 | 0 53 | 21 51 | 0 57 | 13 7 | 0 55 | 7 15 | 2 23 | 23 10 | 0 22 | 22 19 | 1 10 | 14 15 | 8 29 | 21 27 | 21 29 | 13 48 | 17 24 | 4 44 |
| S 9 | 7 44 | 11 42 | 4 59 | 4 38 | 0 59 | 8 37 | 0 56 | 21 59 | 0 57 | 13 11 | 0 55 | 7 17 | 2 23 | 23 10 | 0 22 | 22 19 | 1 10 | 14 15 | 8 29 | 21 29 | 21 30 | 13 46 | 17 23 | 4 45 |
| M10 | 8 7 | 16 56 | 4 57 | 4 9 | 0 43 | 8 13 | 0 59 | 22 6 | 0 57 | 13 16 | 0 55 | 7 18 | 2 23 | 23 10 | 0 22 | 22 19 | 1 10 | 14 15 | 8 28 | 21 31 | 21 30 | 13 43 | 17 23 | 4 46 |
| T 11 | 8 29 | 21 7 | 4 36 | 3 42 | 0 26 | 7 49 | 1 2 | 22 14 | 0 58 | 13 20 | 0 55 | 7 19 | 2 23 | 23 10 | 0 22 | 22 19 | 1 10 | 14 16 | 8 28 | 21 33 | 21 31 | 13 40 | 17 22 | 4 46 |
| W12 | 8 50 | 24 3 | 4 1 | 3 17 | 0 10 | 7 24 | 1 5 | 22 21 | 0 58 | 13 25 | 0 55 | 7 20 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 16 | 8 28 | 21 35 | 21 32 | 13 37 | 17 21 | 4 47 |
| T 13 | 9 12 | 25 34 | 3 13 | 2 55 | 0s 6 | 6 59 | 1 7 | 22 28 | 0 58 | 13 30 | 0 55 | 7 22 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 16 | 8 28 | 21 36 | 21 32 | 13 35 | 17 20 | 4 47 |
| F 14 | 9 34 | 25 42 | 2 18 | 2 34 | 0 22 | 6 34 | 1 10 | 22 35 | 0 59 | 13 34 | 0 55 | 7 23 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 17 | 8 28 | 21 36 | 21 33 | 13 32 | 17 19 | 4 48 |
| S 15 | 9 55 | 24 32 | 1 17 | 2 16 | 0 37 | 6 9 | 1 13 | 22 42 | 0 59 | 13 39 | 0 55 | 7 24 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 17 | 8 28 | 21 37 | 21 33 | 13 29 | 17 18 | 4 49 |
| S 16 | 10 17 | 22 14 | 0 13 | 2 1 | 0 52 | 5 43 | 1 15 | 22 48 | 0 59 | 13 43 | 0 54 | 7 25 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 17 | 8 27 | 21 37 | 21 34 | 13 26 | 17 17 | 4 49 |
| M17 | 10 38 | 19 0 | 0n49 | 1 48 | 1 6 | 5 18 | 1 17 | 22 54 | 1 0 | 13 48 | 0 54 | 7 26 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 17 | 8 27 | 21 37 | 21 34 | 13 23 | 17 16 | 4 50 |
| T 18 | 10 59 | 15 1 | 1 50 | 1 38 | 1 19 | 4 52 | 1 20 | 23 1 | 1 0 | 13 53 | 0 54 | 7 27 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 18 | 8 27 | 21 37 | 21 35 | 13 21 | 17 15 | 4 50 |
| W19 | 11 19 | 10 29 | 2 45 | 1 30 | 1 31 | 4 26 | 1 22 | 23 6 | 1 0 | 13 57 | 0 54 | 7 28 | 2 22 | 23 10 | 0 22 | 22 19 | 1 10 | 14 18 | 8 27 | 21 37 | 21 35 | 13 18 | 17 15 | 4 51 |
| T 20 | 11 40 | 5 32 | 3 34 | 1 25 | 1 43 | 4 0 | 1 24 | 23 12 | 1 1 | 14 2 | 0 54 | 7 29 | 2 21 | 23 10 | 0 22 | 22 19 | 1 10 | 14 18 | 8 27 | 21 38 | 21 36 | 13 15 | 17 14 | 4 51 |
| F 21 | 12 0 | 0 20 | 4 14 | 1 23 | 1 54 | 3 33 | 1 26 | 23 18 | 1 1 | 14 6 | 0 54 | 7 30 | 2 21 | 23 10 | 0 22 | 22 19 | 1 10 | 14 19 | 8 26 | 21 39 | 21 36 | 13 12 | 17 13 | 4 52 |
| S 22 | 12 20 | 4n58 | 4 42 | 1 23 | 2 4 | 3 7 | 1 28 | 23 23 | 1 1 | 14 11 | 0 54 | 7 31 | 2 21 | 23 10 | 0 22 | 22 19 | 1 10 | 14 19 | 8 26 | 21 41 | 21 37 | 13 9 | 17 12 | 4 52 |
| S 23 | 12 40 | 10 10 | 4 58 | 1 25 | 2 13 | 2 40 | 1 30 | 23 28 | 1 1 | 14 15 | 0 54 | 7 32 | 2 21 | 23 10 | 0 22 | 22 19 | 1 10 | 14 19 | 8 26 | 21 43 | 21 37 | 13 7 | 17 11 | 4 53 |
| M24 | 13 0 | 15 3 | 5 0 | 1 30 | 2 22 | 2 14 | 1 31 | 23 33 | 1 2 | 14 20 | 0 54 | 7 33 | 2 21 | 23 11 | 0 23 | 22 19 | 1 10 | 14 19 | 8 26 | 21 45 | 21 38 | 13 4 | 17 10 | 4 53 |
| T 25 | 13 20 | 19 21 | 4 45 | 1 37 | 2 30 | 1 47 | 1 33 | 23 38 | 1 2 | 14 24 | 0 54 | 7 33 | 2 21 | 23 11 | 0 23 | 22 19 | 1 10 | 14 20 | 8 26 | 21 47 | 21 38 | 13 1 | 17 9 | 4 54 |
| W26 | 13 39 | 22 45 | 4 16 | 1 47 | 2 37 | 1 20 | 1 35 | 23 43 | 1 2 | 14 29 | 0 54 | 7 34 | 2 21 | 23 11 | 0 23 | 22 19 | 1 10 | 14 20 | 8 26 | 21 48 | 21 39 | 12 58 | 17 8 | 4 55 |
| T 27 | 13 58 | 24 57 | 3 31 | 1 58 | 2 43 | 0 53 | 1 36 | 23 47 | 1 2 | 14 33 | 0 54 | 7 35 | 2 20 | 23 11 | 0 23 | 22 19 | 1 10 | 14 20 | 8 25 | 21 50 | 21 39 | 12 55 | 17 7 | 4 55 |
| F 28 | 14 17 | 25 42 | 2 34 | 2 12 | 2 48 | 0 26 | 1 37 | 23 51 | 1 3 | 14 38 | 0 53 | 7 35 | 2 20 | 23 11 | 0 23 | 22 19 | 1 10 | 14 20 | 8 25 | 21 51 | 21 40 | 12 53 | 17 6 | 4 56 |
| S 29 | 14 36 | 24 53 | 1 28 | 2 27 | 2 53 | 0n 1 | 1 39 | 23 56 | 1 3 | 14 42 | 0 53 | 7 36 | 2 20 | 23 11 | 0 23 | 22 19 | 1 10 | 14 21 | 8 25 | 21 51 | 21 40 | 12 50 | 17 5 | 4 56 |
| S 30 | 14n54 | 22n30 | 0n15 | 2n44 | 2s57 | 0n29 | 1s40 | 23n59 | 1n 3 | 14n46 | 0s53 | 7n37 | 2n20 | 23s11 | 0s23 | 22s19 | 1n10 | 14n21 | 8s25 | 21s51 | 21s41 | 12s47 | 17s 4 | 4n56 |

Julian Day Number = 2325992.5, Delta T = 38.97 sec
Ecliptic obliquity = 23°29'06, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'32, Lahiri = 19°03'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## MAY 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 38 11 | 11♉ 9'44 | 2♌ 6 | 14♈45 | 6♈14 | 18♊39 | 12♉45 | 16°R 9 | 13°R24 | 0°R 2 | 15♊46 | 20♂54 | 21♂58 | 19♒30 | 9°R43 | M 1 |
| T 2 | 14 42 8 | 12° 7'46 | 16°12 | 15°46 | 7°25 | 19°18 | 12°59 | 16♍ 8 | 13♂24 | 0♂ 1 | 15°47 | 20°R55 | 21°55 | 19°36 | 9♐39 | T 2 |
| W 3 | 14 46 5 | 13° 5'47 | 0♍23 | 16°49 | 8°36 | 19°57 | 13°13 | 16° 6 | 13°23 | 0° 0 | 15°48 | 20°53 | 21°51 | 19°43 | 9°36 | W 3 |
| T 4 | 14 50 1 | 14° 3'46 | 14°37 | 17°55 | 9°48 | 20°35 | 13°27 | 16° 5 | 13°22 | 29♐59 | 15°50 | 20°50 | 21°48 | 19°50 | 9°32 | T 4 |
| F 5 | 14 53 58 | 15° 1'42 | 28°51 | 19° 3 | 10°59 | 21°14 | 13°42 | 16° 3 | 13°21 | 29°58 | 15°51 | 20°44 | 21°45 | 19°56 | 9°28 | F 5 |
| S 6 | 14 57 54 | 15°59'37 | 13♎ 2 | 20°15 | 12°11 | 21°53 | 13°56 | 16° 2 | 13°20 | 29°57 | 15°52 | 20°36 | 21°42 | 20° 3 | 9°25 | S 6 |
| S 7 | 15 1 51 | 16°57'30 | 27° 6 | 21°28 | 13°22 | 22°32 | 14°10 | 16° 1 | 13°19 | 29°56 | 15°53 | 20°27 | 21°39 | 20°10 | 9°21 | S 7 |
| M 8 | 15 5 47 | 17°55'22 | 10♏57 | 22°45 | 14°34 | 23°11 | 14°24 | 16° 0 | 13°18 | 29°55 | 15°55 | 20°17 | 21°35 | 20°16 | 9°17 | M 8 |
| T 9 | 15 9 44 | 18°53'12 | 24°33 | 24° 4 | 15°45 | 23°49 | 14°39 | 15°59 | 13°17 | 29°54 | 15°56 | 20° 7 | 21°32 | 20°23 | 9°13 | T 9 |
| W10 | 15 13 40 | 19°51'01 | 7♐49 | 25°25 | 16°57 | 24°28 | 14°53 | 15°58 | 13°16 | 29°53 | 15°57 | 19°59 | 21°29 | 20°30 | 9° 9 | W10 |
| T 11 | 15 17 37 | 20°48'48 | 20°45 | 26°49 | 18° 8 | 25° 7 | 15° 7 | 15°57 | 13°15 | 29°52 | 15°58 | 19°53 | 21°26 | 20°36 | 9° 6 | T 11 |
| F 12 | 15 21 34 | 21°46'35 | 3♑21 | 28°15 | 19°20 | 25°46 | 15°21 | 15°57 | 13°14 | 29°50 | 16° 0 | 19°49 | 21°23 | 20°43 | 9° 2 | F 12 |
| S 13 | 15 25 30 | 22°44'19 | 15°40 | 29°43 | 20°32 | 26°24 | 15°35 | 15°56 | 13°13 | 29°49 | 16° 1 | 19°D48 | 21°20 | 20°50 | 8°58 | S 13 |
| S 14 | 15 29 27 | 23°42'03 | 27°44 | 1♉14 | 21°44 | 27° 3 | 15°50 | 15°56 | 13°12 | 29°48 | 16° 2 | 19°48 | 21°16 | 20°56 | 8°54 | S 14 |
| M15 | 15 33 23 | 24°39'46 | 9♒39 | 2°47 | 22°55 | 27°42 | 16° 4 | 15°55 | 13°10 | 29°47 | 16° 4 | 19°49 | 21°13 | 21° 3 | 8°49 | M15 |
| T 16 | 15 37 20 | 25°37'27 | 21°29 | 4°22 | 24° 7 | 28°20 | 16°18 | 15°55 | 13° 9 | 29°45 | 16° 5 | 19°R50 | 21°10 | 21°10 | 8°45 | T 16 |
| W17 | 15 41 16 | 26°35'07 | 3♓20 | 5°59 | 25°19 | 28°59 | 16°32 | 15°55 | 13° 8 | 29°44 | 16° 6 | 19°50 | 21° 7 | 21°16 | 8°41 | W17 |
| T 18 | 15 45 13 | 27°32'46 | 15°16 | 7°39 | 26°31 | 29°37 | 16°46 | 15°D55 | 13° 6 | 29°43 | 16° 8 | 19°48 | 21° 4 | 21°23 | 8°37 | T 18 |
| F 19 | 15 49 9 | 28°30'25 | 27°23 | 9°21 | 27°43 | 0♋16 | 17° 0 | 15°55 | 13° 5 | 29°42 | 16° 9 | 19°44 | 21° 1 | 21°30 | 8°33 | F 19 |
| S 20 | 15 53 6 | 29°28'02 | 9♈44 | 11° 5 | 28°54 | 0°55 | 17°14 | 15°55 | 13° 3 | 29°40 | 16°10 | 19°38 | 20°57 | 21°36 | 8°29 | S 20 |
| S 21 | 15 57 3 | 0♊25'38 | 22°23 | 12°51 | 0♉ 6 | 1°33 | 17°28 | 15°56 | 13° 2 | 29°39 | 16°12 | 19°31 | 20°54 | 21°43 | 8°24 | S 21 |
| M22 | 16 0 59 | 1°23'13 | 5♉22 | 14°40 | 1°18 | 2°12 | 17°42 | 15°56 | 13° 0 | 29°38 | 16°13 | 19°23 | 20°51 | 21°49 | 8°20 | M22 |
| T 23 | 16 4 56 | 2°20'48 | 18°40 | 16°31 | 2°30 | 2°50 | 17°56 | 15°56 | 12°58 | 29°36 | 16°14 | 19°15 | 20°48 | 21°56 | 8°16 | T 23 |
| W24 | 16 8 52 | 3°18'21 | 2♊17 | 18°24 | 3°42 | 3°29 | 18°10 | 15°57 | 12°57 | 29°35 | 16°16 | 19° 8 | 20°45 | 22° 3 | 8°12 | W24 |
| T 25 | 16 12 49 | 4°15'53 | 16° 9 | 20°19 | 4°54 | 4° 7 | 18°24 | 15°58 | 12°55 | 29°33 | 16°17 | 19° 2 | 20°41 | 22°10 | 8° 7 | T 25 |
| F 26 | 16 16 45 | 5°13'24 | 0♋13 | 22°17 | 6° 6 | 4°46 | 18°38 | 15°59 | 12°53 | 29°32 | 16°19 | 18°59 | 20°38 | 22°16 | 8° 3 | F 26 |
| S 27 | 16 20 42 | 6°10'54 | 14°25 | 24°16 | 7°18 | 5°24 | 18°52 | 15°59 | 12°52 | 29°30 | 16°20 | 18°D57 | 20°35 | 22°23 | 7°59 | S 27 |
| S 28 | 16 24 38 | 7° 8'23 | 28°41 | 26°18 | 8°30 | 6° 3 | 19° 6 | 16° 0 | 12°50 | 29°29 | 16°21 | 18°58 | 20°32 | 22°30 | 7°55 | S 28 |
| M29 | 16 28 35 | 8° 5'50 | 12♌58 | 28°21 | 9°42 | 6°41 | 19°20 | 16° 2 | 12°48 | 29°28 | 16°23 | 18°59 | 20°29 | 22°36 | 7°50 | M29 |
| T 30 | 16 32 32 | 9° 3'16 | 27°12 | 0♊26 | 10°55 | 7°20 | 19°34 | 16° 3 | 12°46 | 29°26 | 16°24 | 19° 0 | 20°26 | 22°43 | 7°46 | T 30 |
| W31 | 16 36 28 | 10♊ 0'41 | 11♍23 | 2♊33 | 12♉ 7 | 7♋58 | 19♉47 | 16♍ 4 | 12♂44 | 29♐25 | 16♊26 | 19°R 0 | 20♂22 | 22♒50 | 7♐42 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 15n12 | 18n46 | 0s59 | 3n 4 | 3s 0 | 0n56 | 1s41 | 24n 3 | 1n 3 | 14n51 | 0s53 | 7n37 | 2n20 | 23s11 | 0s23 | 22s19 | 1n10 | 14n21 | 8s25 | 21s51 | 21s41 | 12s44 | 17s 3 | 4n57 |
| T 2 | 15 30 | 13 56 | 2 10 | 3 24 | 3 3 | 1 23 | 1 42 | 24 7 | 1 4 | 14 55 | 0 53 | 7 38 | 2 20 | 23 11 | 0 23 | 22 19 | 1 10 | 14 22 | 8 25 | 21 51 | 21 42 | 12 41 | 17 2 | 4 57 |
| W 3 | 15 48 | 8 20 | 3 14 | 3 47 | 3 4 | 1 50 | 1 43 | 24 10 | 1 4 | 15 0 | 0 53 | 7 38 | 2 19 | 23 11 | 0 23 | 22 19 | 1 10 | 14 22 | 8 25 | 21 52 | 21 42 | 12 39 | 17 1 | 4 58 |
| T 4 | 16 5 | 2 18 | 4 5 | 4 11 | 3 5 | 2 18 | 1 44 | 24 13 | 1 4 | 15 4 | 0 53 | 7 38 | 2 19 | 23 11 | 0 23 | 22 19 | 1 10 | 14 22 | 8 24 | 21 52 | 21 43 | 12 36 | 17 0 | 4 58 |
| F 5 | 16 23 | 3s51 | 4 42 | 4 36 | 3 6 | 2 45 | 1 45 | 24 16 | 1 4 | 15 8 | 0 53 | 7 39 | 2 19 | 23 12 | 0 23 | 22 19 | 1 10 | 14 22 | 8 24 | 21 53 | 21 43 | 12 33 | 16 59 | 4 59 |
| S 6 | 16 39 | 9 46 | 5 1 | 5 3 | 3 6 | 3 12 | 1 46 | 24 19 | 1 4 | 15 12 | 0 53 | 7 39 | 2 19 | 23 12 | 0 23 | 22 19 | 1 10 | 14 23 | 8 24 | 21 54 | 21 44 | 12 30 | 16 58 | 4 59 |
| S 7 | 16 56 | 15 8 | 5 1 | 5 32 | 3 5 | 3 39 | 1 46 | 24 21 | 1 5 | 15 17 | 0 53 | 7 39 | 2 19 | 23 12 | 0 23 | 22 19 | 1 10 | 14 23 | 8 24 | 21 56 | 21 44 | 12 27 | 16 57 | 5 0 |
| M 8 | 17 12 | 19 38 | 4 44 | 6 1 | 3 3 | 4 7 | 1 47 | 24 23 | 1 5 | 15 21 | 0 53 | 7 40 | 2 19 | 23 12 | 0 23 | 22 19 | 1 10 | 14 23 | 8 24 | 21 57 | 21 45 | 12 25 | 16 56 | 5 0 |
| T 9 | 17 28 | 23 0 | 4 11 | 6 32 | 3 1 | 4 34 | 1 47 | 24 25 | 1 5 | 15 25 | 0 53 | 7 40 | 2 18 | 23 12 | 0 23 | 22 19 | 1 10 | 14 23 | 8 24 | 21 58 | 21 45 | 12 22 | 16 56 | 5 0 |
| W10 | 17 44 | 25 1 | 3 25 | 7 5 | 2 59 | 5 1 | 1 48 | 24 27 | 1 5 | 15 29 | 0 53 | 7 40 | 2 18 | 23 12 | 0 23 | 22 19 | 1 10 | 14 24 | 8 24 | 22 0 | 21 46 | 12 19 | 16 55 | 5 1 |
| T 11 | 17 59 | 25 38 | 2 29 | 7 38 | 2 55 | 5 28 | 1 48 | 24 29 | 1 5 | 15 34 | 0 53 | 7 40 | 2 18 | 23 12 | 0 23 | 22 19 | 1 10 | 14 24 | 8 23 | 22 1 | 21 46 | 12 16 | 16 54 | 5 1 |
| F 12 | 18 15 | 24 53 | 1 27 | 8 12 | 2 51 | 5 55 | 1 48 | 24 31 | 1 6 | 15 38 | 0 53 | 7 40 | 2 18 | 23 12 | 0 23 | 22 19 | 1 10 | 14 24 | 8 23 | 22 1 | 21 47 | 12 13 | 16 53 | 5 2 |
| S 13 | 18 29 | 22 56 | 0 22 | 8 47 | 2 47 | 6 22 | 1 48 | 24 32 | 1 6 | 15 42 | 0 53 | 7 40 | 2 18 | 23 13 | 0 23 | 22 19 | 1 10 | 14 24 | 8 23 | 22 1 | 21 47 | 12 10 | 16 52 | 5 2 |
| S 14 | 18 44 | 19 57 | 0n43 | 9 23 | 2 42 | 6 49 | 1 48 | 24 33 | 1 6 | 15 46 | 0 53 | 7 40 | 2 18 | 23 13 | 0 23 | 22 19 | 1 10 | 14 25 | 8 23 | 22 1 | 21 48 | 12 8 | 16 51 | 5 2 |
| M15 | 18 58 | 16 11 | 1 45 | 10 1 | 2 36 | 7 15 | 1 48 | 24 34 | 1 6 | 15 50 | 0 53 | 7 40 | 2 17 | 23 13 | 0 23 | 22 19 | 1 10 | 14 25 | 8 23 | 22 1 | 21 48 | 12 5 | 16 50 | 5 3 |
| T 16 | 19 12 | 11 49 | 2 42 | 10 38 | 2 30 | 7 42 | 1 48 | 24 35 | 1 6 | 15 54 | 0 52 | 7 40 | 2 17 | 23 13 | 0 23 | 22 19 | 1 10 | 14 25 | 8 23 | 22 1 | 21 49 | 12 2 | 16 49 | 5 3 |
| W17 | 19 26 | 7 0 | 3 32 | 11 17 | 2 24 | 8 8 | 1 48 | 24 35 | 1 7 | 15 58 | 0 52 | 7 40 | 2 17 | 23 13 | 0 23 | 22 19 | 1 11 | 14 25 | 8 23 | 22 1 | 21 49 | 11 59 | 16 48 | 5 3 |
| T 18 | 19 39 | 1 55 | 4 14 | 11 56 | 2 17 | 8 34 | 1 48 | 24 36 | 1 7 | 16 3 | 0 52 | 7 40 | 2 17 | 23 13 | 0 23 | 22 19 | 1 11 | 14 26 | 8 23 | 22 1 | 21 50 | 11 56 | 16 47 | 5 4 |
| F 19 | 19 52 | 3n18 | 4 44 | 12 36 | 2 9 | 9 1 | 1 47 | 24 36 | 1 7 | 16 7 | 0 52 | 7 40 | 2 17 | 23 13 | 0 23 | 22 19 | 1 11 | 14 26 | 8 23 | 22 2 | 21 50 | 11 53 | 16 46 | 5 4 |
| S 20 | 20 5 | 8 30 | 5 3 | 13 16 | 2 1 | 9 27 | 1 47 | 24 36 | 1 7 | 16 11 | 0 52 | 7 39 | 2 16 | 23 14 | 0 23 | 22 19 | 1 11 | 14 26 | 8 23 | 22 3 | 21 51 | 11 50 | 16 45 | 5 4 |
| S 21 | 20 17 | 13 28 | 5 7 | 13 56 | 1 53 | 9 52 | 1 46 | 24 36 | 1 7 | 16 15 | 0 52 | 7 39 | 2 16 | 23 14 | 0 23 | 22 19 | 1 11 | 14 26 | 8 22 | 22 4 | 21 51 | 11 48 | 16 44 | 5 5 |
| M22 | 20 29 | 17 58 | 4 56 | 14 37 | 1 44 | 10 18 | 1 46 | 24 35 | 1 7 | 16 19 | 0 52 | 7 39 | 2 16 | 23 14 | 0 23 | 22 18 | 1 11 | 14 26 | 8 22 | 22 5 | 21 52 | 11 45 | 16 43 | 5 5 |
| T 23 | 20 40 | 21 42 | 4 28 | 15 18 | 1 34 | 10 43 | 1 45 | 24 35 | 1 7 | 16 22 | 0 52 | 7 38 | 2 16 | 23 14 | 0 23 | 22 18 | 1 11 | 14 27 | 8 22 | 22 6 | 21 52 | 11 42 | 16 42 | 5 5 |
| W24 | 20 51 | 24 20 | 3 45 | 15 59 | 1 25 | 11 8 | 1 44 | 24 34 | 1 8 | 16 26 | 0 52 | 7 38 | 2 16 | 23 14 | 0 23 | 22 18 | 1 11 | 14 27 | 8 22 | 22 7 | 21 53 | 11 39 | 16 41 | 5 5 |
| T 25 | 21 2 | 25 33 | 2 48 | 16 39 | 1 15 | 11 33 | 1 44 | 24 33 | 1 8 | 16 30 | 0 52 | 7 38 | 2 15 | 23 15 | 0 23 | 22 18 | 1 11 | 14 27 | 8 22 | 22 8 | 21 53 | 11 36 | 16 40 | 5 6 |
| F 26 | 21 13 | 25 9 | 1 40 | 17 20 | 1 5 | 11 58 | 1 43 | 24 32 | 1 8 | 16 34 | 0 52 | 7 37 | 2 15 | 23 15 | 0 23 | 22 18 | 1 11 | 14 27 | 8 22 | 22 8 | 21 54 | 11 33 | 16 40 | 5 6 |
| S 27 | 21 23 | 23 7 | 0 25 | 18 0 | 0 54 | 12 22 | 1 42 | 24 30 | 1 8 | 16 38 | 0 52 | 7 37 | 2 15 | 23 15 | 0 23 | 22 18 | 1 11 | 14 27 | 8 22 | 22 8 | 21 54 | 11 31 | 16 39 | 5 6 |
| S 28 | 21 33 | 19 36 | 0s53 | 18 39 | 0 44 | 12 46 | 1 41 | 24 29 | 1 8 | 16 42 | 0 52 | 7 36 | 2 15 | 23 15 | 0 23 | 22 18 | 1 11 | 14 28 | 8 22 | 22 8 | 21 55 | 11 28 | 16 38 | 5 6 |
| M29 | 21 42 | 14 56 | 2 7 | 19 18 | 0 33 | 13 10 | 1 40 | 24 27 | 1 8 | 16 46 | 0 52 | 7 35 | 2 15 | 23 15 | 0 23 | 22 18 | 1 11 | 14 28 | 8 22 | 22 8 | 21 55 | 11 25 | 16 37 | 5 6 |
| T 30 | 21 51 | 9 27 | 3 13 | 19 55 | 0 22 | 13 34 | 1 39 | 24 25 | 1 8 | 16 49 | 0 52 | 7 35 | 2 15 | 23 16 | 0 23 | 22 18 | 1 11 | 14 28 | 8 22 | 22 8 | 21 56 | 11 22 | 16 36 | 5 7 |
| W31 | 22n 0 | 3n30 | 4s 7 | 20n31 | 0s11 | 13n57 | 1s37 | 24n23 | 1n 8 | 16n53 | 0s52 | 7n34 | 2n14 | 23s16 | 0s23 | 22s18 | 1n11 | 14n28 | 8s22 | 22s 8 | 21s56 | 11s19 | 16s35 | 5n 7 |

Julian Day Number = 2326022.5, Delta T = 38.91 sec
Ecliptic obliquity = 23°29'06, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'36, Lahiri = 19°03'37Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## JUNE 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 40 25 | 10♊58'05 | 25♍28 | 4♊41 | 13♉19 | 8♋36 | 20♉ 1 | 16♍ 6 | 12°R42 | 29°R23 | 16♊27 | 18°R59 | 20♑19 | 22♒56 | 7°R37 | T 1 |
| F 2 | 16 44 21 | 11°55'27 | 9♎25 | 6°50 | 14°31 | 9°15 | 20°15 | 16° 7 | 12♑40 | 29♐22 | 16°28 | 18♑57 | 20°16 | 23° 3 | 7♐33 | F 2 |
| S 3 | 16 48 18 | 12°52'49 | 23°14 | 9° 1 | 15°43 | 9°53 | 20°29 | 16° 9 | 12°38 | 29°20 | 16°30 | 18°53 | 20°13 | 23°10 | 7°29 | S 3 |
| S 4 | 16 52 14 | 13°50'09 | 6♏51 | 11°12 | 16°55 | 10°31 | 20°42 | 16°10 | 12°36 | 29°18 | 16°31 | 18°48 | 20°10 | 23°16 | 7°25 | S 4 |
| M 5 | 16 56 11 | 14°47'28 | 20°17 | 13°24 | 18° 8 | 11°10 | 20°56 | 16°12 | 12°34 | 29°17 | 16°33 | 18°43 | 20° 7 | 23°23 | 7°21 | M 5 |
| T 6 | 17 0 7 | 15°44'47 | 3♐28 | 15°36 | 19°20 | 11°48 | 21° 9 | 16°14 | 12°32 | 29°15 | 16°34 | 18°37 | 20° 3 | 23°30 | 7°16 | T 6 |
| W 7 | 17 4 4 | 16°42'05 | 16°24 | 17°47 | 20°32 | 12°26 | 21°23 | 16°16 | 12°30 | 29°14 | 16°35 | 18°33 | 20° 0 | 23°36 | 7°12 | W 7 |
| T 8 | 17 8 1 | 17°39'22 | 29° 4 | 19°59 | 21°44 | 13° 5 | 21°36 | 16°18 | 12°28 | 29°12 | 16°37 | 18°30 | 19°57 | 23°43 | 7° 8 | T 8 |
| F 9 | 17 11 57 | 18°36'39 | 11♑30 | 22°10 | 22°57 | 13°43 | 21°50 | 16°20 | 12°26 | 29°11 | 16°38 | 18°29 | 19°54 | 23°50 | 7° 4 | F 9 |
| S 10 | 17 15 54 | 19°33'55 | 23°42 | 24°21 | 24° 9 | 14°21 | 22° 3 | 16°23 | 12°24 | 29° 9 | 16°40 | 18°D29 | 19°51 | 23°56 | 7° 0 | S 10 |
| S 11 | 17 19 50 | 20°31'10 | 5♒43 | 26°30 | 25°22 | 15° 0 | 22°16 | 16°25 | 12°22 | 29° 7 | 16°41 | 18°30 | 19°47 | 24° 3 | 6°56 | S 11 |
| M12 | 17 23 47 | 21°28'25 | 17°37 | 28°38 | 26°34 | 15°38 | 22°30 | 16°28 | 12°20 | 29° 6 | 16°42 | 18°31 | 19°44 | 24°10 | 6°52 | M12 |
| T 13 | 17 27 43 | 22°25'40 | 29°27 | 0♋44 | 27°46 | 16°16 | 22°43 | 16°30 | 12°17 | 29° 4 | 16°44 | 18°33 | 19°41 | 24°16 | 6°48 | T 13 |
| W14 | 17 31 40 | 23°22'54 | 11♓18 | 2°49 | 28°59 | 16°54 | 22°56 | 16°33 | 12°15 | 29° 3 | 16°45 | 18°34 | 19°38 | 24°23 | 6°44 | W14 |
| T 15 | 17 35 36 | 24°20'09 | 23°15 | 4°53 | 0♊11 | 17°33 | 23° 9 | 16°36 | 12°13 | 29° 1 | 16°47 | 18°R35 | 19°35 | 24°30 | 6°40 | T 15 |
| F 16 | 17 39 33 | 25°17'23 | 5♈22 | 6°54 | 1°24 | 18°11 | 23°22 | 16°38 | 12°11 | 28°59 | 16°48 | 18°34 | 19°32 | 24°36 | 6°36 | F 16 |
| S 17 | 17 43 30 | 26°14'37 | 17°44 | 8°54 | 2°36 | 18°49 | 23°35 | 16°41 | 12° 8 | 28°58 | 16°49 | 18°33 | 19°28 | 24°43 | 6°32 | S 17 |
| S 18 | 17 47 26 | 27°11'51 | 0♉25 | 10°51 | 3°49 | 19°27 | 23°48 | 16°44 | 12° 6 | 28°56 | 16°51 | 18°31 | 19°25 | 24°50 | 6°28 | S 18 |
| M19 | 17 51 23 | 28° 9'04 | 13°27 | 12°46 | 5° 2 | 20° 5 | 24° 1 | 16°48 | 12° 4 | 28°55 | 16°52 | 18°28 | 19°22 | 24°56 | 6°24 | M19 |
| T 20 | 17 55 19 | 29° 6'18 | 26°53 | 14°40 | 6°14 | 20°44 | 24°14 | 16°51 | 12° 1 | 28°53 | 16°54 | 18°25 | 19°19 | 25° 3 | 6°20 | T 20 |
| W21 | 17 59 16 | 0♋ 3'32 | 10♊42 | 16°31 | 7°27 | 21°22 | 24°27 | 16°54 | 11°59 | 28°51 | 16°55 | 18°23 | 19°16 | 25°10 | 6°17 | W21 |
| T 22 | 18 3 12 | 1° 0'45 | 24°52 | 18°20 | 8°39 | 22° 0 | 24°40 | 16°58 | 11°57 | 28°50 | 16°56 | 18°21 | 19°13 | 25°16 | 6°13 | T 22 |
| F 23 | 18 7 9 | 1°57'59 | 9♋18 | 20° 7 | 9°52 | 22°38 | 24°52 | 17° 1 | 11°54 | 28°48 | 16°58 | 18°20 | 19° 9 | 25°23 | 6°10 | F 23 |
| S 24 | 18 11 6 | 2°55'12 | 23°55 | 21°52 | 11° 5 | 23°16 | 25° 5 | 17° 5 | 11°52 | 28°46 | 16°59 | 18°D20 | 19° 6 | 25°30 | 6° 6 | S 24 |
| S 25 | 18 15 2 | 3°52'25 | 8♌37 | 23°34 | 12°18 | 23°55 | 25°18 | 17° 8 | 11°50 | 28°45 | 17° 0 | 18°21 | 19° 3 | 25°36 | 6° 3 | S 25 |
| M26 | 18 18 59 | 4°49'37 | 23°17 | 25°15 | 13°30 | 24°33 | 25°30 | 17°12 | 11°47 | 28°43 | 17° 2 | 18°22 | 19° 0 | 25°43 | 5°59 | M26 |
| T 27 | 18 22 55 | 5°46'49 | 7♍49 | 26°53 | 14°43 | 25°11 | 25°43 | 17°16 | 11°45 | 28°42 | 17° 3 | 18°23 | 18°57 | 25°50 | 5°56 | T 27 |
| W28 | 18 26 52 | 6°44'01 | 22°10 | 28°29 | 15°56 | 25°49 | 25°55 | 17°20 | 11°42 | 28°40 | 17° 4 | 18°23 | 18°53 | 25°56 | 5°53 | W28 |
| T 29 | 18 30 48 | 7°41'13 | 6♎17 | 0♌ 3 | 17° 9 | 26°27 | 26° 7 | 17°24 | 11°40 | 28°38 | 17° 6 | 18°R24 | 18°50 | 26° 3 | 5°49 | T 29 |
| F 30 | 18 34 45 | 8♋38'24 | 20♎ 8 | 1♌34 | 18♊22 | 27♋ 5 | 26♉19 | 17♍28 | 11♑38 | 28♐37 | 17♊ 7 | 18♑23 | 18♑47 | 26♒10 | 5♐46 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 8 | 2s33 | 4s45 | 21n 6 | 0s 1 | 14n20 | 1s36 | 24n21 | 1n 9 | 16n57 | 0s52 | 7n33 | 2n14 | 23s16 | 0s23 | 22s18 | 1n11 | 14n29 | 8s22 | 22s 8 | 21s57 | 11s16 | 16s34 | 5n 7 |
| F 2 | 22 16 | 8 26 | 5 7 | 21 39 | 0n10 | 14 43 | 1 35 | 24 18 | 1 9 | 17 0 | 0 52 | 7 33 | 2 14 | 23 16 | 0 23 | 22 18 | 1 11 | 14 29 | 8 21 | 22 9 | 21 57 | 11 13 | 16 34 | 5 7 |
| S 3 | 22 23 | 13 50 | 5 10 | 22 11 | 0 21 | 15 5 | 1 33 | 24 16 | 1 9 | 17 4 | 0 52 | 7 32 | 2 14 | 23 16 | 0 23 | 22 18 | 1 11 | 14 29 | 8 21 | 22 9 | 21 58 | 11 10 | 16 33 | 5 7 |
| S 4 | 22 30 | 18 29 | 4 56 | 22 40 | 0 31 | 15 27 | 1 32 | 24 13 | 1 9 | 17 8 | 0 52 | 7 31 | 2 14 | 23 17 | 0 23 | 22 18 | 1 11 | 14 29 | 8 21 | 22 10 | 21 58 | 11 8 | 16 32 | 5 7 |
| M 5 | 22 37 | 22 6 | 4 25 | 23 7 | 0 41 | 15 49 | 1 31 | 24 10 | 1 9 | 17 11 | 0 52 | 7 30 | 2 13 | 23 17 | 0 24 | 22 18 | 1 11 | 14 29 | 8 21 | 22 11 | 21 59 | 11 5 | 16 31 | 5 8 |
| T 6 | 22 43 | 24 30 | 3 41 | 23 32 | 0 50 | 16 10 | 1 29 | 24 6 | 1 9 | 17 15 | 0 52 | 7 29 | 2 13 | 23 17 | 0 24 | 22 18 | 1 11 | 14 29 | 8 21 | 22 11 | 21 59 | 11 2 | 16 30 | 5 8 |
| W 7 | 22 49 | 25 33 | 2 46 | 23 54 | 0 59 | 16 31 | 1 27 | 24 3 | 1 9 | 17 18 | 0 52 | 7 28 | 2 13 | 23 17 | 0 24 | 22 18 | 1 11 | 14 30 | 8 21 | 22 12 | 21 59 | 10 59 | 16 30 | 5 8 |
| T 8 | 22 55 | 25 13 | 1 44 | 24 14 | 1 8 | 16 51 | 1 26 | 23 59 | 1 9 | 17 22 | 0 52 | 7 27 | 2 13 | 23 17 | 0 24 | 22 18 | 1 11 | 14 30 | 8 21 | 22 12 | 22 0 | 10 56 | 16 29 | 5 8 |
| F 9 | 23 0 | 23 37 | 0 38 | 24 31 | 1 16 | 17 11 | 1 24 | 23 56 | 1 9 | 17 25 | 0 52 | 7 26 | 2 13 | 23 18 | 0 24 | 22 18 | 1 11 | 14 30 | 8 21 | 22 12 | 22 0 | 10 53 | 16 28 | 5 8 |
| S 10 | 23 4 | 20 56 | 0n29 | 24 45 | 1 23 | 17 31 | 1 22 | 23 52 | 1 9 | 17 29 | 0 52 | 7 25 | 2 12 | 23 18 | 0 24 | 22 18 | 1 11 | 14 30 | 8 21 | 22 12 | 22 1 | 10 50 | 16 27 | 5 8 |
| S 11 | 23 9 | 17 22 | 1 33 | 24 56 | 1 30 | 17 50 | 1 20 | 23 47 | 1 9 | 17 32 | 0 52 | 7 24 | 2 12 | 23 18 | 0 24 | 22 18 | 1 11 | 14 30 | 8 21 | 22 12 | 22 1 | 10 47 | 16 27 | 5 8 |
| M12 | 23 13 | 13 9 | 2 33 | 25 4 | 1 36 | 18 9 | 1 18 | 23 43 | 1 10 | 17 36 | 0 52 | 7 23 | 2 12 | 23 18 | 0 24 | 22 18 | 1 11 | 14 30 | 8 21 | 22 12 | 22 2 | 10 45 | 16 26 | 5 8 |
| T 13 | 23 16 | 8 28 | 3 26 | 25 10 | 1 41 | 18 27 | 1 17 | 23 39 | 1 10 | 17 39 | 0 52 | 7 22 | 2 12 | 23 18 | 0 24 | 22 18 | 1 11 | 14 31 | 8 21 | 22 12 | 22 2 | 10 42 | 16 25 | 5 8 |
| W14 | 23 19 | 3 28 | 4 11 | 25 13 | 1 45 | 18 45 | 1 15 | 23 34 | 1 10 | 17 42 | 0 52 | 7 20 | 2 12 | 23 19 | 0 24 | 22 18 | 1 11 | 14 31 | 8 21 | 22 12 | 22 3 | 10 39 | 16 24 | 5 8 |
| T 15 | 23 22 | 1n40 | 4 45 | 25 13 | 1 49 | 19 3 | 1 13 | 23 29 | 1 10 | 17 46 | 0 52 | 7 19 | 2 12 | 23 19 | 0 24 | 22 18 | 1 11 | 14 31 | 8 21 | 22 12 | 22 3 | 10 36 | 16 24 | 5 8 |
| F 16 | 23 24 | 6 49 | 5 7 | 25 10 | 1 52 | 19 20 | 1 11 | 23 24 | 1 10 | 17 49 | 0 52 | 7 18 | 2 11 | 23 19 | 0 24 | 22 18 | 1 11 | 14 31 | 8 21 | 22 12 | 22 4 | 10 33 | 16 23 | 5 8 |
| S 17 | 23 26 | 11 49 | 5 15 | 25 5 | 1 55 | 19 36 | 1 8 | 23 19 | 1 10 | 17 52 | 0 52 | 7 17 | 2 11 | 23 19 | 0 24 | 22 18 | 1 11 | 14 31 | 8 21 | 22 12 | 22 4 | 10 30 | 16 22 | 5 8 |
| S 18 | 23 27 | 16 26 | 5 8 | 24 58 | 1 56 | 19 52 | 1 6 | 23 13 | 1 10 | 17 55 | 0 52 | 7 15 | 2 11 | 23 20 | 0 24 | 22 18 | 1 11 | 14 31 | 8 21 | 22 12 | 22 5 | 10 27 | 16 22 | 5 8 |
| M19 | 23 28 | 20 27 | 4 46 | 24 49 | 1 57 | 20 7 | 1 4 | 23 8 | 1 10 | 17 59 | 0 52 | 7 14 | 2 11 | 23 20 | 0 24 | 22 18 | 1 11 | 14 31 | 8 21 | 22 13 | 22 5 | 10 24 | 16 21 | 5 8 |
| T 20 | 23 29 | 23 30 | 4 7 | 24 37 | 1 57 | 20 22 | 1 2 | 23 2 | 1 10 | 18 2 | 0 52 | 7 12 | 2 11 | 23 20 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 13 | 22 5 | 10 22 | 16 21 | 5 8 |
| W21 | 23 29 | 25 17 | 3 13 | 24 23 | 1 57 | 20 37 | 1 0 | 22 56 | 1 10 | 18 5 | 0 52 | 7 11 | 2 10 | 23 20 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 13 | 22 6 | 10 19 | 16 20 | 5 8 |
| T 22 | 23 29 | 25 29 | 2 6 | 24 8 | 1 55 | 20 50 | 0 57 | 22 50 | 1 10 | 18 8 | 0 52 | 7 9 | 2 10 | 23 20 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 13 | 22 6 | 10 16 | 16 19 | 5 8 |
| F 23 | 23 28 | 23 59 | 0 50 | 23 51 | 1 53 | 21 4 | 0 55 | 22 44 | 1 10 | 18 11 | 0 52 | 7 8 | 2 10 | 23 21 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 14 | 22 7 | 10 13 | 16 19 | 5 8 |
| S 24 | 23 27 | 20 51 | 0s31 | 23 32 | 1 51 | 21 16 | 0 53 | 22 38 | 1 10 | 18 14 | 0 52 | 7 6 | 2 10 | 23 21 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 14 | 22 7 | 10 10 | 16 18 | 5 8 |
| S 25 | 23 26 | 16 22 | 1 50 | 23 11 | 1 48 | 21 29 | 0 51 | 22 31 | 1 10 | 18 17 | 0 52 | 7 5 | 2 10 | 23 21 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 14 | 22 8 | 10 7 | 16 18 | 5 8 |
| M26 | 23 24 | 10 56 | 3 2 | 22 50 | 1 44 | 21 40 | 0 48 | 22 24 | 1 10 | 18 20 | 0 52 | 7 3 | 2 10 | 23 21 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 13 | 22 8 | 10 4 | 16 17 | 5 8 |
| T 27 | 23 21 | 4 56 | 4 1 | 22 27 | 1 39 | 21 51 | 0 46 | 22 17 | 1 10 | 18 23 | 0 52 | 7 2 | 2 9 | 23 22 | 0 24 | 22 18 | 1 11 | 14 32 | 8 21 | 22 13 | 22 9 | 10 1 | 16 17 | 5 8 |
| W28 | 23 19 | 1s14 | 4 44 | 22 3 | 1 34 | 22 1 | 0 43 | 22 10 | 1 10 | 18 26 | 0 52 | 7 0 | 2 9 | 23 22 | 0 24 | 22 18 | 1 11 | 14 33 | 8 21 | 22 13 | 22 9 | 9 58 | 16 16 | 5 8 |
| T 29 | 23 16 | 7 14 | 5 10 | 21 38 | 1 29 | 22 11 | 0 41 | 22 3 | 1 10 | 18 29 | 0 52 | 6 58 | 2 9 | 23 22 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 13 | 22 9 | 9 55 | 16 16 | 5 8 |
| F 30 | 23n12 | 12s46 | 5s17 | 21n11 | 1n23 | 22n20 | 0s38 | 21n56 | 1n10 | 18n31 | 0s52 | 6n56 | 2n 9 | 23s22 | 0s24 | 22s18 | 1n10 | 14n33 | 8s21 | 22s13 | 22s10 | 9s53 | 16s15 | 5n 8 |

Julian Day Number = 2326053.5, Delta T = 38.85 sec
Ecliptic obliquity = 23°29'05, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'40, Lahiri = 19°03'41Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## JULY 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 38 41 | 9♋35'35 | 3♏42 | 3♌ 4 | 19♊34 | 27♋43 | 26♉32 | 17♍32 | 11°R35 | 28°R35 | 17♊ 8 | 18°R23 | 18♂44 | 26♒16 | 5°R43 | S 1 |
| S 2 | 18 42 38 | 10°32'45 | 17° 1 | 4°31 | 20°47 | 28°22 | 26°44 | 17°36 | 11♂33 | 28♐34 | 17°10 | 18♂22 | 18°41 | 26°23 | 5♐40 | S 2 |
| M 3 | 18 46 35 | 11°29'56 | 0♐ 4 | 5°56 | 22° 0 | 29° 0 | 26°56 | 17°41 | 11°30 | 28°32 | 17°11 | 18°21 | 18°38 | 26°30 | 5°37 | M 3 |
| T 4 | 18 50 31 | 12°27'07 | 12°52 | 7°18 | 23°13 | 29°38 | 27° 8 | 17°45 | 11°28 | 28°31 | 17°12 | 18°20 | 18°34 | 26°36 | 5°34 | T 4 |
| W 5 | 18 54 28 | 13°24'18 | 25°28 | 8°38 | 24°26 | 0♌16 | 27°19 | 17°49 | 11°25 | 28°29 | 17°14 | 18°20 | 18°31 | 26°43 | 5°31 | W 5 |
| T 6 | 18 58 24 | 14°21'28 | 7♂51 | 9°56 | 25°39 | 0°54 | 27°31 | 17°54 | 11°23 | 28°27 | 17°15 | 18°19 | 18°28 | 26°50 | 5°29 | T 6 |
| F 7 | 19 2 21 | 15°18'40 | 20° 3 | 11°12 | 26°52 | 1°32 | 27°43 | 17°59 | 11°21 | 28°26 | 17°16 | 18°D19 | 18°25 | 26°56 | 5°26 | F 7 |
| S 8 | 19 6 17 | 16°15'51 | 2♒ 6 | 12°25 | 28° 5 | 2°10 | 27°54 | 18° 3 | 11°18 | 28°24 | 17°17 | 18°19 | 18°22 | 27° 3 | 5°23 | S 8 |
| S 9 | 19 10 14 | 17°13'03 | 14° 2 | 13°35 | 29°18 | 2°48 | 28° 6 | 18° 8 | 11°16 | 28°23 | 17°19 | 18°20 | 18°19 | 27°10 | 5°21 | S 9 |
| M10 | 19 14 10 | 18°10'15 | 25°54 | 14°43 | 0♋31 | 3°26 | 28°17 | 18°13 | 11°13 | 28°21 | 17°20 | 18°R20 | 18°15 | 27°16 | 5°18 | M10 |
| T 11 | 19 18 7 | 19° 7'27 | 7♓43 | 15°48 | 1°45 | 4° 4 | 28°29 | 18°18 | 11°11 | 28°20 | 17°21 | 18°20 | 18°12 | 27°23 | 5°16 | T 11 |
| W12 | 19 22 4 | 20° 4'40 | 19°35 | 16°50 | 2°58 | 4°42 | 28°40 | 18°23 | 11° 9 | 28°18 | 17°22 | 18°19 | 18° 9 | 27°30 | 5°14 | W12 |
| T 13 | 19 26 0 | 21° 1'54 | 1♈31 | 17°49 | 4°11 | 5°21 | 28°51 | 18°28 | 11° 6 | 28°17 | 17°24 | 18°19 | 18° 6 | 27°36 | 5°11 | T 13 |
| F 14 | 19 29 57 | 21°59'09 | 13°37 | 18°45 | 5°24 | 5°59 | 29° 2 | 18°33 | 11° 4 | 28°15 | 17°25 | 18°19 | 18° 3 | 27°43 | 5° 9 | F 14 |
| S 15 | 19 33 53 | 22°56'24 | 25°57 | 19°39 | 6°37 | 6°37 | 29°13 | 18°38 | 11° 2 | 28°14 | 17°26 | 18°D19 | 17°59 | 27°50 | 5° 7 | S 15 |
| S 16 | 19 37 50 | 23°53'40 | 8♉36 | 20°29 | 7°51 | 7°15 | 29°24 | 18°43 | 10°59 | 28°13 | 17°27 | 18°19 | 17°56 | 27°56 | 5° 5 | S 16 |
| M17 | 19 41 46 | 24°50'57 | 21°36 | 21°15 | 9° 4 | 7°53 | 29°35 | 18°49 | 10°57 | 28°11 | 17°28 | 18°20 | 17°53 | 28° 3 | 5° 3 | M17 |
| T 18 | 19 45 43 | 25°48'15 | 5♊ 0 | 21°58 | 10°17 | 8°31 | 29°46 | 18°54 | 10°55 | 28°10 | 17°29 | 18°20 | 17°50 | 28°10 | 5° 2 | T 18 |
| W19 | 19 49 39 | 26°45'34 | 18°51 | 22°38 | 11°31 | 9° 9 | 29°56 | 19° 0 | 10°52 | 28° 8 | 17°31 | 18°21 | 17°47 | 28°17 | 5° 0 | W19 |
| T 20 | 19 53 36 | 27°42'54 | 3♋ 7 | 23°13 | 12°44 | 9°47 | 0♊ 7 | 19° 5 | 10°50 | 28° 7 | 17°32 | 18°22 | 17°44 | 28°23 | 4°58 | T 20 |
| F 21 | 19 57 33 | 28°40'14 | 17°45 | 23°45 | 13°58 | 10°25 | 0°17 | 19°11 | 10°48 | 28° 6 | 17°33 | 18°R22 | 17°40 | 28°30 | 4°57 | F 21 |
| S 22 | 20 1 29 | 29°37'36 | 2♌39 | 24°12 | 15°11 | 11° 3 | 0°27 | 19°16 | 10°45 | 28° 4 | 17°34 | 18°22 | 17°37 | 28°37 | 4°55 | S 22 |
| S 23 | 20 5 26 | 0♌34'58 | 17°42 | 24°35 | 16°25 | 11°41 | 0°38 | 19°22 | 10°43 | 28° 3 | 17°35 | 18°21 | 17°34 | 28°43 | 4°54 | S 23 |
| M24 | 20 9 22 | 1°32'20 | 2♍44 | 24°53 | 17°38 | 12°19 | 0°48 | 19°28 | 10°41 | 28° 2 | 17°36 | 18°19 | 17°31 | 28°50 | 4°53 | M24 |
| T 25 | 20 13 19 | 2°29'43 | 17°38 | 25° 7 | 18°52 | 12°57 | 0°58 | 19°34 | 10°39 | 28° 0 | 17°37 | 18°18 | 17°28 | 28°57 | 4°51 | T 25 |
| W26 | 20 17 15 | 3°27'07 | 2♎16 | 25°16 | 20° 5 | 13°36 | 1° 8 | 19°39 | 10°37 | 27°59 | 17°38 | 18°16 | 17°25 | 29° 3 | 4°50 | W26 |
| T 27 | 20 21 12 | 4°24'31 | 16°33 | 25°R20 | 21°19 | 14°14 | 1°17 | 19°45 | 10°34 | 27°58 | 17°39 | 18°15 | 17°21 | 29°10 | 4°49 | T 27 |
| F 28 | 20 25 8 | 5°21'56 | 0♏26 | 25°18 | 22°32 | 14°52 | 1°27 | 19°51 | 10°32 | 27°57 | 17°40 | 18°D14 | 17°18 | 29°17 | 4°48 | F 28 |
| S 29 | 20 29 5 | 6°19'22 | 13°57 | 25°12 | 23°46 | 15°30 | 1°37 | 19°57 | 10°30 | 27°56 | 17°41 | 18°14 | 17°15 | 29°23 | 4°48 | S 29 |
| S 30 | 20 33 2 | 7°16'49 | 27° 5 | 25° 0 | 25° 0 | 16° 8 | 1°46 | 20° 4 | 10°28 | 27°54 | 17°42 | 18°15 | 17°12 | 29°30 | 4°47 | S 30 |
| M31 | 20 36 58 | 8♌14'16 | 9♐54 | 24♌43 | 26♋13 | 16♌46 | 1♊55 | 20♍10 | 10♂26 | 27♐53 | 17♊43 | 18♂16 | 17♂ 9 | 29♒37 | 4♐46 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 8 | 17s33 | 5s 6 | 20n45 | 1n16 | 22n29 | 0s36 | 21n48 | 1n10 | 18n34 | 0s52 | 6n55 | 2n 9 | 23s22 | 0s24 | 22s18 | 1n10 | 14n33 | 8s21 | 22s13 | 22s10 | 9s50 | 16s15 | 5n 8 |
| S 2 | 23 4 | 21 23 | 4 38 | 20 17 | 1 9 | 22 36 | 0 33 | 21 41 | 1 10 | 18 37 | 0 52 | 6 53 | 2 9 | 23 23 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 13 | 22 11 | 9 47 | 16 15 | 5 8 |
| M 3 | 22 59 | 24 3 | 3 57 | 19 49 | 1 1 | 22 44 | 0 31 | 21 33 | 1 10 | 18 40 | 0 52 | 6 51 | 2 8 | 23 23 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 13 | 22 11 | 9 44 | 16 14 | 5 7 |
| T 4 | 22 54 | 25 26 | 3 4 | 19 20 | 0 53 | 22 50 | 0 28 | 21 25 | 1 10 | 18 42 | 0 52 | 6 49 | 2 8 | 23 23 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 14 | 22 12 | 9 41 | 16 14 | 5 7 |
| W 5 | 22 48 | 25 28 | 2 4 | 18 51 | 0 45 | 22 56 | 0 26 | 21 17 | 1 10 | 18 45 | 0 52 | 6 47 | 2 8 | 23 23 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 14 | 22 12 | 9 38 | 16 13 | 5 7 |
| T 6 | 22 43 | 24 13 | 0 58 | 18 22 | 0 36 | 23 1 | 0 23 | 21 8 | 1 10 | 18 48 | 0 52 | 6 45 | 2 8 | 23 24 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 14 | 22 13 | 9 35 | 16 13 | 5 7 |
| F 7 | 22 36 | 21 50 | 0n10 | 17 52 | 0 26 | 23 6 | 0 21 | 21 0 | 1 10 | 18 50 | 0 52 | 6 43 | 2 8 | 23 24 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 14 | 22 13 | 9 32 | 16 13 | 5 7 |
| S 8 | 22 30 | 18 30 | 1 16 | 17 22 | 0 16 | 23 10 | 0 18 | 20 51 | 1 10 | 18 53 | 0 52 | 6 41 | 2 8 | 23 24 | 0 24 | 22 18 | 1 10 | 14 33 | 8 21 | 22 14 | 22 13 | 9 29 | 16 13 | 5 7 |
| S 9 | 22 22 | 14 27 | 2 18 | 16 53 | 0 6 | 23 13 | 0 16 | 20 43 | 1 10 | 18 55 | 0 52 | 6 39 | 2 8 | 23 24 | 0 24 | 22 18 | 1 10 | 14 34 | 8 21 | 22 14 | 22 14 | 9 26 | 16 12 | 5 6 |
| M10 | 22 15 | 9 52 | 3 14 | 16 23 | 0s 5 | 23 16 | 0 13 | 20 34 | 1 10 | 18 58 | 0 52 | 6 37 | 2 7 | 23 24 | 0 24 | 22 18 | 1 10 | 14 34 | 8 21 | 22 14 | 22 14 | 9 24 | 16 12 | 5 6 |
| T 11 | 22 7 | 4 57 | 4 1 | 15 53 | 0 16 | 23 18 | 0 11 | 20 25 | 1 10 | 19 0 | 0 52 | 6 35 | 2 7 | 23 25 | 0 24 | 22 18 | 1 10 | 14 34 | 8 21 | 22 14 | 22 15 | 9 21 | 16 12 | 5 6 |
| W12 | 21 59 | 0n 8 | 4 38 | 15 24 | 0 27 | 23 19 | 0 8 | 20 15 | 1 10 | 19 3 | 0 52 | 6 33 | 2 7 | 23 25 | 0 24 | 22 18 | 1 10 | 14 34 | 8 21 | 22 14 | 22 15 | 9 18 | 16 12 | 5 6 |
| T 13 | 21 50 | 5 15 | 5 4 | 14 55 | 0 38 | 23 20 | 0 6 | 20 6 | 1 10 | 19 5 | 0 52 | 6 31 | 2 7 | 23 25 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 16 | 9 15 | 16 11 | 5 6 |
| F 14 | 21 41 | 10 14 | 5 16 | 14 26 | 0 50 | 23 19 | 0 3 | 19 57 | 1 10 | 19 8 | 0 52 | 6 29 | 2 7 | 23 25 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 16 | 9 12 | 16 11 | 5 6 |
| S 15 | 21 32 | 14 55 | 5 15 | 13 58 | 1 3 | 23 19 | 0 0 | 19 47 | 1 10 | 19 10 | 0 53 | 6 27 | 2 7 | 23 25 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 16 | 9 9 | 16 11 | 5 5 |
| S 16 | 21 22 | 19 5 | 4 58 | 13 30 | 1 15 | 23 17 | 0n 2 | 19 37 | 1 10 | 19 12 | 0 53 | 6 25 | 2 7 | 23 26 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 17 | 9 6 | 16 11 | 5 5 |
| M17 | 21 12 | 22 28 | 4 26 | 13 4 | 1 28 | 23 15 | 0 5 | 19 28 | 1 10 | 19 15 | 0 53 | 6 22 | 2 6 | 23 26 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 17 | 9 3 | 16 11 | 5 5 |
| T 18 | 21 1 | 24 45 | 3 38 | 12 38 | 1 40 | 23 12 | 0 7 | 19 18 | 1 10 | 19 17 | 0 53 | 6 20 | 2 6 | 23 26 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 18 | 9 0 | 16 11 | 5 5 |
| W19 | 20 51 | 25 37 | 2 36 | 12 13 | 1 53 | 23 9 | 0 10 | 19 8 | 1 10 | 19 19 | 0 53 | 6 18 | 2 6 | 23 26 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 13 | 22 18 | 8 57 | 16 11 | 5 4 |
| T 20 | 20 39 | 24 50 | 1 24 | 11 49 | 2 6 | 23 4 | 0 12 | 18 57 | 1 10 | 19 21 | 0 53 | 6 16 | 2 6 | 23 26 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 13 | 22 18 | 8 54 | 16 11 | 5 4 |
| F 21 | 20 28 | 22 22 | 0 3 | 11 26 | 2 19 | 22 59 | 0 14 | 18 47 | 1 10 | 19 23 | 0 53 | 6 13 | 2 6 | 23 27 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 13 | 22 19 | 8 51 | 16 11 | 5 4 |
| S 22 | 20 16 | 18 20 | 1s18 | 11 5 | 2 32 | 22 54 | 0 17 | 18 36 | 1 10 | 19 25 | 0 53 | 6 11 | 2 6 | 23 27 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 13 | 22 19 | 8 49 | 16 11 | 5 4 |
| S 23 | 20 4 | 13 5 | 2 35 | 10 45 | 2 46 | 22 48 | 0 19 | 18 26 | 1 10 | 19 28 | 0 53 | 6 9 | 2 6 | 23 27 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 20 | 8 46 | 16 11 | 5 3 |
| M24 | 19 51 | 7 4 | 3 42 | 10 27 | 2 58 | 22 41 | 0 22 | 18 15 | 1 10 | 19 30 | 0 53 | 6 6 | 2 6 | 23 27 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 20 | 8 43 | 16 11 | 5 3 |
| T 25 | 19 38 | 0 43 | 4 32 | 10 10 | 3 11 | 22 33 | 0 24 | 18 4 | 1 10 | 19 32 | 0 53 | 6 4 | 2 6 | 23 27 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 21 | 8 40 | 16 11 | 5 3 |
| W26 | 19 25 | 5s33 | 5 4 | 9 56 | 3 24 | 22 25 | 0 26 | 17 53 | 1 10 | 19 34 | 0 53 | 6 1 | 2 5 | 23 27 | 0 24 | 22 18 | 1 10 | 14 34 | 8 22 | 22 14 | 22 21 | 8 37 | 16 11 | 5 3 |
| T 27 | 19 12 | 11 22 | 5 16 | 9 43 | 3 36 | 22 16 | 0 29 | 17 42 | 1 10 | 19 35 | 0 53 | 5 59 | 2 5 | 23 28 | 0 24 | 22 18 | 1 10 | 14 34 | 8 23 | 22 14 | 22 21 | 8 34 | 16 11 | 5 2 |
| F 28 | 18 58 | 16 28 | 5 9 | 9 32 | 3 47 | 22 6 | 0 31 | 17 31 | 1 9 | 19 37 | 0 53 | 5 57 | 2 5 | 23 28 | 0 24 | 22 18 | 1 10 | 14 34 | 8 23 | 22 14 | 22 22 | 8 31 | 16 11 | 5 2 |
| S 29 | 18 44 | 20 35 | 4 45 | 9 24 | 3 58 | 21 56 | 0 33 | 17 19 | 1 9 | 19 39 | 0 53 | 5 54 | 2 5 | 23 28 | 0 24 | 22 18 | 1 10 | 14 34 | 8 23 | 22 14 | 22 22 | 8 28 | 16 11 | 5 2 |
| S 30 | 18 29 | 23 32 | 4 6 | 9 18 | 4 9 | 21 45 | 0 35 | 17 8 | 1 9 | 19 41 | 0 53 | 5 52 | 2 5 | 23 28 | 0 24 | 22 18 | 1 10 | 14 34 | 8 23 | 22 14 | 22 23 | 8 25 | 16 11 | 5 2 |
| M31 | 18n14 | 25s13 | 3s16 | 9n15 | 4s18 | 21n34 | 0n38 | 16n56 | 1n 9 | 19n43 | 0s53 | 5n49 | 2n 5 | 23s28 | 0s24 | 22s18 | 1n10 | 14n34 | 8s23 | 22s14 | 22s23 | 8s22 | 16s11 | 5n 1 |

Julian Day Number = 2326083.5, Delta T = 38.79 sec
Ecliptic obliquity = 23°29'05, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'44, Lahiri = 19°03'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## AUGUST 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 40 55 | 9♌11'44 | 22♐27 | 24°R21 | 27♋27 | 17♌24 | 2♊ 4 | 20♍16 | 10°R24 | 27°R52 | 17♊44 | 18♑18 | 17♑ 5 | 29♒43 | 4°R46 | T 1 |
| W 2 | 20 44 51 | 10° 9'12 | 4♑46 | 23♌53 | 28°41 | 18° 2 | 2°13 | 20°22 | 10♑22 | 27♐51 | 17°45 | 18°19 | 17° 2 | 29°50 | 4♐45 | W 2 |
| T 3 | 20 48 48 | 11° 6'42 | 16°55 | 23°21 | 29°55 | 18°40 | 2°22 | 20°28 | 10°20 | 27°50 | 17°46 | 18°R20 | 16°59 | 29°57 | 4°45 | T 3 |
| F 4 | 20 52 44 | 12° 4'13 | 28°56 | 22°45 | 1♌ 8 | 19°18 | 2°31 | 20°35 | 10°18 | 27°49 | 17°47 | 18°19 | 16°56 | 0♓ 3 | 4°45 | F 4 |
| S 5 | 20 56 41 | 13° 1'44 | 10♒51 | 22° 4 | 2°22 | 19°56 | 2°40 | 20°41 | 10°16 | 27°48 | 17°48 | 18°18 | 16°53 | 0°10 | 4°45 | S 5 |
| S 6 | 21 0 37 | 13°59'17 | 22°43 | 21°20 | 3°36 | 20°34 | 2°48 | 20°48 | 10°14 | 27°47 | 17°49 | 18°15 | 16°50 | 0°17 | 4°D45 | S 6 |
| M 7 | 21 4 34 | 14°56'51 | 4♓33 | 20°33 | 4°50 | 21°13 | 2°57 | 20°54 | 10°12 | 27°46 | 17°49 | 18°11 | 16°46 | 0°23 | 4°45 | M 7 |
| T 8 | 21 8 31 | 15°54'26 | 16°23 | 19°44 | 6° 4 | 21°51 | 3° 5 | 21° 1 | 10°11 | 27°45 | 17°50 | 18° 6 | 16°43 | 0°30 | 4°45 | T 8 |
| W 9 | 21 12 27 | 16°52'03 | 28°17 | 18°54 | 7°18 | 22°29 | 3°13 | 21° 7 | 10° 9 | 27°44 | 17°51 | 18° 1 | 16°40 | 0°37 | 4°45 | W 9 |
| T 10 | 21 16 24 | 17°49'41 | 10♈15 | 18° 4 | 8°32 | 23° 7 | 3°21 | 21°14 | 10° 7 | 27°43 | 17°52 | 17°57 | 16°37 | 0°43 | 4°45 | T 10 |
| F 11 | 21 20 20 | 18°47'20 | 22°23 | 17°14 | 9°46 | 23°45 | 3°29 | 21°20 | 10° 5 | 27°42 | 17°53 | 17°53 | 16°34 | 0°50 | 4°46 | F 11 |
| S 12 | 21 24 17 | 19°45'01 | 4♉42 | 16°27 | 11° 0 | 24°23 | 3°37 | 21°27 | 10° 4 | 27°41 | 17°53 | 17°51 | 16°31 | 0°57 | 4°46 | S 12 |
| S 13 | 21 28 13 | 20°42'44 | 17°17 | 15°41 | 12°14 | 25° 1 | 3°44 | 21°34 | 10° 2 | 27°41 | 17°54 | 17°D50 | 16°27 | 1° 4 | 4°47 | S 13 |
| M14 | 21 32 10 | 21°40'29 | 0♊12 | 15° 0 | 13°28 | 25°39 | 3°52 | 21°41 | 10° 0 | 27°40 | 17°55 | 17°50 | 16°24 | 1°10 | 4°48 | M14 |
| T 15 | 21 36 6 | 22°38'15 | 13°30 | 14°23 | 14°42 | 26°17 | 3°59 | 21°47 | 9°59 | 27°39 | 17°56 | 17°51 | 16°21 | 1°17 | 4°49 | T 15 |
| W16 | 21 40 3 | 23°36'03 | 27°13 | 13°51 | 15°56 | 26°56 | 4° 6 | 21°54 | 9°57 | 27°38 | 17°56 | 17°52 | 16°18 | 1°24 | 4°50 | W16 |
| T 17 | 21 44 0 | 24°33'52 | 11♋24 | 13°25 | 17°10 | 27°34 | 4°13 | 22° 1 | 9°56 | 27°38 | 17°57 | 17°R54 | 16°15 | 1°30 | 4°51 | T 17 |
| F 18 | 21 47 56 | 25°31'44 | 26° 0 | 13° 7 | 18°25 | 28°12 | 4°20 | 22° 8 | 9°54 | 27°37 | 17°58 | 17°53 | 16°11 | 1°37 | 4°52 | F 18 |
| S 19 | 21 51 53 | 26°29'37 | 10♌57 | 12°55 | 19°39 | 28°50 | 4°27 | 22°15 | 9°53 | 27°36 | 17°58 | 17°52 | 16° 8 | 1°44 | 4°53 | S 19 |
| S 20 | 21 55 49 | 27°27'31 | 26° 8 | 12°D51 | 20°53 | 29°28 | 4°33 | 22°22 | 9°52 | 27°36 | 17°59 | 17°48 | 16° 5 | 1°50 | 4°54 | S 20 |
| M21 | 21 59 46 | 28°25'27 | 11♍24 | 12°55 | 22° 7 | 0♍ 7 | 4°40 | 22°29 | 9°50 | 27°35 | 17°59 | 17°43 | 16° 2 | 1°57 | 4°55 | M21 |
| T 22 | 22 3 42 | 29°23'24 | 26°33 | 13° 7 | 23°22 | 0°45 | 4°46 | 22°36 | 9°49 | 27°34 | 18° 0 | 17°37 | 15°59 | 2° 4 | 4°57 | T 22 |
| W23 | 22 7 39 | 0♍21'23 | 11♎27 | 13°27 | 24°36 | 1°23 | 4°52 | 22°43 | 9°48 | 27°34 | 18° 1 | 17°31 | 15°56 | 2°10 | 4°59 | W23 |
| T 24 | 22 11 35 | 1°19'23 | 25°57 | 13°55 | 25°50 | 2° 1 | 4°58 | 22°50 | 9°46 | 27°33 | 18° 1 | 17°25 | 15°52 | 2°17 | 5° 0 | T 24 |
| F 25 | 22 15 32 | 2°17'25 | 9♏59 | 14°31 | 27° 5 | 2°39 | 5° 4 | 22°57 | 9°45 | 27°33 | 18° 2 | 17°22 | 15°49 | 2°24 | 5° 2 | F 25 |
| S 26 | 22 19 29 | 3°15'28 | 23°34 | 15°15 | 28°19 | 3°18 | 5° 9 | 23° 5 | 9°44 | 27°32 | 18° 2 | 17°19 | 15°46 | 2°30 | 5° 4 | S 26 |
| S 27 | 22 23 25 | 4°13'32 | 6♐41 | 16° 7 | 29°33 | 3°56 | 5°15 | 23°12 | 9°43 | 27°32 | 18° 3 | 17°D19 | 15°43 | 2°37 | 5° 6 | S 27 |
| M28 | 22 27 22 | 5°11'38 | 19°25 | 17° 6 | 0♍48 | 4°34 | 5°20 | 23°19 | 9°42 | 27°32 | 18° 3 | 17°20 | 15°40 | 2°44 | 5° 8 | M28 |
| T 29 | 22 31 18 | 6° 9'45 | 1♑50 | 18°12 | 2° 2 | 5°12 | 5°25 | 23°26 | 9°41 | 27°31 | 18° 3 | 17°21 | 15°37 | 2°51 | 5°10 | T 29 |
| W30 | 22 35 15 | 7° 7'54 | 14° 0 | 19°24 | 3°17 | 5°51 | 5°30 | 23°33 | 9°40 | 27°31 | 18° 4 | 17°R22 | 15°33 | 2°57 | 5°12 | W30 |
| T 31 | 22 39 11 | 8♍ 6'04 | 26♑ 0 | 20♌43 | 4♍31 | 6♍29 | 5♊35 | 23♍41 | 9♑39 | 27♐31 | 18♊ 4 | 17♑22 | 15♑30 | 3♓ 4 | 5♐15 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17n59 | 25 s34 | 2 s18 | 9n14 | 4 s27 | 21n22 | 0n40 | 16n45 | 1n 9 | 19n45 | 0 s53 | 5n47 | 2n 5 | 23 s28 | 0 s24 | 22 s18 | 1n10 | 14n34 | 8 s23 | 22 s14 | 22 s23 | 8 s19 | 16 s12 | 5n 1 |
| W 2 | 17 44 | 24 38 | 1 14 | 9 16 | 4 34 | 21 9 | 0 42 | 16 33 | 1 9 | 19 46 | 0 53 | 5 44 | 2 5 | 23 29 | 0 24 | 22 18 | 1 10 | 14 34 | 8 23 | 22 14 | 22 24 | 8 16 | 16 12 | 5 1 |
| T 3 | 17 28 | 22 32 | 0 8 | 9 21 | 4 40 | 20 55 | 0 44 | 16 21 | 1 9 | 19 48 | 0 54 | 5 41 | 2 5 | 23 29 | 0 24 | 22 18 | 1 10 | 14 34 | 8 23 | 22 14 | 22 24 | 8 13 | 16 12 | 5 0 |
| F 4 | 17 12 | 19 28 | 0n58 | 9 28 | 4 45 | 20 41 | 0 46 | 16 9 | 1 9 | 19 50 | 0 54 | 5 39 | 2 5 | 23 29 | 0 24 | 22 18 | 1 10 | 14 34 | 8 23 | 22 14 | 22 25 | 8 10 | 16 12 | 5 0 |
| S 5 | 16 56 | 15 36 | 2 1 | 9 38 | 4 48 | 20 27 | 0 48 | 15 57 | 1 9 | 19 51 | 0 54 | 5 36 | 2 4 | 23 29 | 0 24 | 22 18 | 1 9 | 14 34 | 8 23 | 22 14 | 22 25 | 8 8 | 16 13 | 5 0 |
| S 6 | 16 40 | 11 10 | 2 58 | 9 51 | 4 49 | 20 12 | 0 50 | 15 45 | 1 9 | 19 53 | 0 54 | 5 34 | 2 4 | 23 29 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 14 | 22 25 | 8 5 | 16 13 | 5 0 |
| M 7 | 16 23 | 6 20 | 3 47 | 10 5 | 4 49 | 19 56 | 0 52 | 15 32 | 1 9 | 19 54 | 0 54 | 5 31 | 2 4 | 23 29 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 15 | 22 26 | 8 2 | 16 13 | 4 59 |
| T 8 | 16 6 | 1 17 | 4 26 | 10 23 | 4 47 | 19 40 | 0 54 | 15 20 | 1 9 | 19 56 | 0 54 | 5 28 | 2 4 | 23 29 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 15 | 22 26 | 7 59 | 16 13 | 4 59 |
| W 9 | 15 49 | 3n49 | 4 54 | 10 42 | 4 43 | 19 23 | 0 56 | 15 7 | 1 8 | 19 57 | 0 54 | 5 26 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 16 | 22 27 | 7 56 | 16 14 | 4 59 |
| T 10 | 15 31 | 8 49 | 5 10 | 11 2 | 4 37 | 19 5 | 0 57 | 14 55 | 1 8 | 19 59 | 0 54 | 5 23 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 17 | 22 27 | 7 53 | 16 14 | 4 58 |
| F 11 | 15 13 | 13 32 | 5 12 | 11 25 | 4 30 | 18 47 | 0 59 | 14 42 | 1 8 | 20 0 | 0 54 | 5 20 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 17 | 22 27 | 7 50 | 16 14 | 4 58 |
| S 12 | 14 55 | 17 48 | 4 59 | 11 48 | 4 20 | 18 29 | 1 1 | 14 29 | 1 8 | 20 2 | 0 54 | 5 18 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 18 | 22 28 | 7 47 | 16 15 | 4 58 |
| S 13 | 14 37 | 21 22 | 4 32 | 12 12 | 4 9 | 18 10 | 1 2 | 14 16 | 1 8 | 20 3 | 0 54 | 5 15 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 18 | 22 28 | 7 44 | 16 15 | 4 58 |
| M14 | 14 18 | 24 0 | 3 51 | 12 36 | 3 56 | 17 50 | 1 4 | 14 3 | 1 8 | 20 4 | 0 54 | 5 12 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 34 | 8 24 | 22 18 | 22 29 | 7 41 | 16 16 | 4 57 |
| T 15 | 14 0 | 25 23 | 2 57 | 13 0 | 3 42 | 17 30 | 1 6 | 13 50 | 1 8 | 20 6 | 0 54 | 5 9 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 34 | 8 25 | 22 17 | 22 29 | 7 38 | 16 16 | 4 57 |
| W16 | 13 41 | 25 18 | 1 50 | 13 24 | 3 27 | 17 9 | 1 7 | 13 37 | 1 8 | 20 7 | 0 54 | 5 7 | 2 4 | 23 30 | 0 24 | 22 19 | 1 9 | 14 33 | 8 25 | 22 17 | 22 29 | 7 35 | 16 17 | 4 57 |
| T 17 | 13 22 | 23 35 | 0 35 | 13 47 | 3 11 | 16 48 | 1 8 | 13 24 | 1 8 | 20 8 | 0 55 | 5 4 | 2 4 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 25 | 22 17 | 22 30 | 7 32 | 16 17 | 4 56 |
| F 18 | 13 2 | 20 16 | 0 s44 | 14 8 | 2 54 | 16 27 | 1 10 | 13 11 | 1 7 | 20 9 | 0 55 | 5 1 | 2 4 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 25 | 22 17 | 22 30 | 7 29 | 16 18 | 4 56 |
| S 19 | 12 42 | 15 33 | 2 2 | 14 28 | 2 36 | 16 5 | 1 11 | 12 57 | 1 7 | 20 11 | 0 55 | 4 58 | 2 4 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 25 | 22 17 | 22 30 | 7 26 | 16 18 | 4 56 |
| S 20 | 12 23 | 9 48 | 3 13 | 14 47 | 2 18 | 15 42 | 1 12 | 12 44 | 1 7 | 20 12 | 0 55 | 4 55 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 25 | 22 18 | 22 31 | 7 23 | 16 19 | 4 55 |
| M21 | 12 3 | 3 27 | 4 10 | 15 3 | 2 0 | 15 19 | 1 14 | 12 30 | 1 7 | 20 13 | 0 55 | 4 53 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 25 | 22 19 | 22 31 | 7 21 | 16 19 | 4 55 |
| T 22 | 11 42 | 3 s 3 | 4 49 | 15 17 | 1 42 | 14 56 | 1 15 | 12 16 | 1 7 | 20 14 | 0 55 | 4 50 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 25 | 22 19 | 22 32 | 7 18 | 16 20 | 4 55 |
| W23 | 11 22 | 9 15 | 5 8 | 15 29 | 1 23 | 14 32 | 1 16 | 12 3 | 1 7 | 20 15 | 0 55 | 4 47 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 26 | 22 20 | 22 32 | 7 15 | 16 20 | 4 54 |
| T 24 | 11 1 | 14 47 | 5 6 | 15 38 | 1 6 | 14 8 | 1 17 | 11 49 | 1 7 | 20 16 | 0 55 | 4 44 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 26 | 22 21 | 22 32 | 7 12 | 16 21 | 4 54 |
| F 25 | 10 41 | 19 21 | 4 46 | 15 44 | 0 48 | 13 44 | 1 18 | 11 35 | 1 7 | 20 17 | 0 55 | 4 41 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 26 | 22 21 | 22 33 | 7 9 | 16 22 | 4 54 |
| S 26 | 10 20 | 22 44 | 4 10 | 15 47 | 0 32 | 13 19 | 1 19 | 11 21 | 1 6 | 20 18 | 0 55 | 4 38 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 26 | 22 22 | 22 33 | 7 6 | 16 22 | 4 53 |
| S 27 | 9 59 | 24 47 | 3 22 | 15 47 | 0 16 | 12 53 | 1 20 | 11 7 | 1 6 | 20 19 | 0 55 | 4 36 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 33 | 8 26 | 22 22 | 22 33 | 7 3 | 16 23 | 4 53 |
| M28 | 9 37 | 25 28 | 2 25 | 15 44 | 0 0 | 12 28 | 1 20 | 10 53 | 1 6 | 20 19 | 0 55 | 4 33 | 2 3 | 23 31 | 0 24 | 22 19 | 1 9 | 14 32 | 8 26 | 22 22 | 22 34 | 7 0 | 16 23 | 4 53 |
| T 29 | 9 16 | 24 51 | 1 23 | 15 38 | 0n14 | 12 2 | 1 21 | 10 38 | 1 6 | 20 20 | 0 55 | 4 30 | 2 3 | 23 32 | 0 24 | 22 19 | 1 8 | 14 32 | 8 26 | 22 21 | 22 34 | 6 57 | 16 24 | 4 53 |
| W30 | 8 55 | 23 3 | 0 18 | 15 28 | 0 28 | 11 36 | 1 22 | 10 24 | 1 6 | 20 21 | 0 56 | 4 27 | 2 3 | 23 32 | 0 24 | 22 19 | 1 8 | 14 32 | 8 27 | 22 21 | 22 35 | 6 54 | 16 25 | 4 52 |
| T 31 | 8n33 | 20 s14 | 0n46 | 15n15 | 0n40 | 11n 9 | 1n22 | 10n10 | 1n 6 | 20n22 | 0 s56 | 4n24 | 2n 3 | 23 s32 | 0 s24 | 22 s19 | 1n 8 | 14n32 | 8 s27 | 22 s21 | 22 s35 | 6 s51 | 16 s26 | 4n52 |

Julian Day Number = 2326114.5, Delta T = 38.73 sec
Ecliptic obliquity = 23°29'05, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'49, Lahiri = 19°03'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## SEPTEMBER 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 43 8 | 9♍ 4'16 | 7♒54 | 22♌ 7 | 5♍46 | 7♍ 7 | 5♊39 | 23♍48 | 9°R38 | 27°R31 | 18♊ 5 | 17°R19 | 15♉27 | 3♓11 | 5♐17 | F 1 |
| S 2 | 22 47 4 | 10° 2'29 | 19°44 | 23°36 | 7° 0 | 7°46 | 5°44 | 23°55 | 9♉37 | 27♐30 | 18° 5 | 17♉15 | 15°24 | 3°17 | 5°19 | S 2 |
| S 3 | 22 51 1 | 11° 0'44 | 1♓34 | 25° 9 | 8°15 | 8°24 | 5°48 | 24° 3 | 9°37 | 27°30 | 18° 5 | 17° 8 | 15°21 | 3°24 | 5°22 | S 3 |
| M 4 | 22 54 58 | 11°59'01 | 13°25 | 26°47 | 9°29 | 9° 2 | 5°52 | 24°10 | 9°36 | 27°30 | 18° 6 | 16°59 | 15°17 | 3°31 | 5°25 | M 4 |
| T 5 | 22 58 54 | 12°57'20 | 25°19 | 28°28 | 10°44 | 9°41 | 5°56 | 24°17 | 9°35 | 27°30 | 18° 6 | 16°48 | 15°14 | 3°37 | 5°27 | T 5 |
| W 6 | 23 2 51 | 13°55'40 | 7♈19 | 0♍11 | 11°58 | 10°19 | 6° 0 | 24°25 | 9°35 | 27°30 | 18° 6 | 16°38 | 15°11 | 3°44 | 5°30 | W 6 |
| T 7 | 23 6 47 | 14°54'02 | 19°24 | 1°58 | 13°13 | 10°57 | 6° 3 | 24°32 | 9°34 | 27°30 | 18° 6 | 16°27 | 15° 8 | 3°51 | 5°33 | T 7 |
| F 8 | 23 10 44 | 15°52'27 | 1♉38 | 3°46 | 14°28 | 11°36 | 6° 6 | 24°39 | 9°34 | 27°D30 | 18° 7 | 16°18 | 15° 5 | 3°57 | 5°36 | F 8 |
| S 9 | 23 14 40 | 16°50'54 | 14° 1 | 5°35 | 15°42 | 12°14 | 6° 9 | 24°47 | 9°33 | 27°30 | 18° 7 | 16°11 | 15° 2 | 4° 4 | 5°39 | S 9 |
| S 10 | 23 18 37 | 17°49'22 | 26°38 | 7°26 | 16°57 | 12°52 | 6°12 | 24°54 | 9°33 | 27°30 | 18° 7 | 16° 7 | 14°58 | 4°11 | 5°43 | S 10 |
| M11 | 23 22 33 | 18°47'53 | 9♊31 | 9°18 | 18°12 | 13°31 | 6°15 | 25° 2 | 9°32 | 27°30 | 18° 7 | 16° 4 | 14°55 | 4°17 | 5°46 | M11 |
| T 12 | 23 26 30 | 19°46'27 | 22°43 | 11°10 | 19°26 | 14° 9 | 6°18 | 25° 9 | 9°32 | 27°30 | 18° 7 | 16°D 4 | 14°52 | 4°24 | 5°49 | T 12 |
| W13 | 23 30 27 | 20°45'02 | 6♋17 | 13° 2 | 20°41 | 14°48 | 6°20 | 25°16 | 9°32 | 27°30 | 18° 7 | 16° 5 | 14°49 | 4°31 | 5°53 | W13 |
| T 14 | 23 34 23 | 21°43'40 | 20°15 | 14°55 | 21°56 | 15°26 | 6°22 | 25°24 | 9°31 | 27°30 | 18° 7 | 16°R 5 | 14°46 | 4°38 | 5°56 | T 14 |
| F 15 | 23 38 20 | 22°42'20 | 4♌39 | 16°47 | 23°11 | 16° 5 | 6°24 | 25°31 | 9°31 | 27°30 | 18° 7 | 16° 3 | 14°42 | 4°44 | 6° 0 | F 15 |
| S 16 | 23 42 16 | 23°41'02 | 19°25 | 18°39 | 24°25 | 16°43 | 6°26 | 25°39 | 9°31 | 27°31 | 18° 7 | 16° 0 | 14°39 | 4°51 | 6° 3 | S 16 |
| S 17 | 23 46 13 | 24°39'46 | 4♍29 | 20°30 | 25°40 | 17°21 | 6°28 | 25°46 | 9°31 | 27°31 | 18°R 7 | 15°54 | 14°36 | 4°58 | 6° 7 | S 17 |
| M18 | 23 50 9 | 25°38'32 | 19°42 | 22°21 | 26°55 | 18° 0 | 6°29 | 25°54 | 9°D31 | 27°31 | 18° 7 | 15°45 | 14°33 | 5° 4 | 6°11 | M18 |
| T 19 | 23 54 6 | 26°37'20 | 4♎53 | 24°11 | 28°10 | 18°39 | 6°30 | 26° 1 | 9°31 | 27°31 | 18° 7 | 15°35 | 14°30 | 5°11 | 6°15 | T 19 |
| W20 | 23 58 2 | 27°36'11 | 19°52 | 26° 0 | 29°25 | 19°17 | 6°31 | 26° 9 | 9°31 | 27°32 | 18° 7 | 15°24 | 14°27 | 5°18 | 6°19 | W20 |
| T 21 | 0 1 59 | 28°35'03 | 4♏30 | 27°49 | 0♎39 | 19°56 | 6°32 | 26°16 | 9°31 | 27°32 | 18° 7 | 15°15 | 14°23 | 5°24 | 6°23 | T 21 |
| F 22 | 0 5 56 | 29°33'57 | 18°40 | 29°37 | 1°54 | 20°34 | 6°32 | 26°23 | 9°31 | 27°33 | 18° 7 | 15° 7 | 14°20 | 5°31 | 6°27 | F 22 |
| S 23 | 0 9 52 | 0♎32'53 | 2♐21 | 1♎24 | 3° 9 | 21°13 | 6°33 | 26°31 | 9°32 | 27°33 | 18° 7 | 15° 2 | 14°17 | 5°38 | 6°31 | S 23 |
| S 24 | 0 13 49 | 1°31'51 | 15°33 | 3°10 | 4°24 | 21°51 | 6°R33 | 26°38 | 9°32 | 27°34 | 18° 7 | 14°59 | 14°14 | 5°44 | 6°36 | S 24 |
| M25 | 0 17 45 | 2°30'50 | 28°19 | 4°55 | 5°39 | 22°30 | 6°33 | 26°46 | 9°32 | 27°34 | 18° 7 | 14°D58 | 14°11 | 5°51 | 6°40 | M25 |
| T 26 | 0 21 42 | 3°29'51 | 10♑43 | 6°40 | 6°54 | 23° 9 | 6°33 | 26°53 | 9°33 | 27°35 | 18° 7 | 14°R58 | 14° 8 | 5°58 | 6°45 | T 26 |
| W27 | 0 25 38 | 4°28'54 | 22°51 | 8°23 | 8° 9 | 23°47 | 6°32 | 27° 1 | 9°33 | 27°35 | 18° 6 | 14°58 | 14° 4 | 6° 5 | 6°49 | W27 |
| T 28 | 0 29 35 | 5°27'59 | 4♒48 | 10° 6 | 9°23 | 24°26 | 6°32 | 27° 8 | 9°34 | 27°36 | 18° 6 | 14°56 | 14° 1 | 6°11 | 6°54 | T 28 |
| F 29 | 0 33 31 | 6°27'06 | 16°38 | 11°48 | 10°38 | 25° 4 | 6°31 | 27°15 | 9°34 | 27°37 | 18° 6 | 14°53 | 13°58 | 6°18 | 6°58 | F 29 |
| S 30 | 0 37 28 | 7♎26'14 | 28♒27 | 13♎29 | 11♎53 | 25♍43 | 6♊30 | 27♍23 | 9♉35 | 27♐37 | 18♊ 6 | 14♉46 | 13♉55 | 6♓25 | 7♐ 3 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8n11 | 16s35 | 1n48 | 14n59 | 0n51 | 10n42 | 1n23 | 9n56 | 1n 5 | 20n22 | 0s56 | 4n21 | 2n 3 | 23s32 | 0s24 | 22s19 | 1n 8 | 14n32 | 8s27 | 22s22 | 22s35 | 6s48 | 16s26 | 4n52 |
| S 2 | 7 49 | 12 19 | 2 45 | 14 39 | 1 2 | 10 15 | 1 23 | 9 41 | 1 5 | 20 23 | 0 56 | 4 18 | 2 3 | 23 32 | 0 24 | 22 19 | 1 8 | 14 32 | 8 27 | 22 22 | 22 36 | 6 45 | 16 27 | 4 51 |
| S 3 | 7 27 | 7 36 | 3 34 | 14 17 | 1 11 | 9 47 | 1 24 | 9 27 | 1 5 | 20 24 | 0 56 | 4 15 | 2 3 | 23 32 | 0 24 | 22 19 | 1 8 | 14 32 | 8 27 | 22 23 | 22 36 | 6 42 | 16 28 | 4 51 |
| M 4 | 7 5 | 2 37 | 4 14 | 13 51 | 1 19 | 9 19 | 1 24 | 9 12 | 1 5 | 20 24 | 0 56 | 4 12 | 2 3 | 23 32 | 0 24 | 22 19 | 1 8 | 14 32 | 8 27 | 22 24 | 22 36 | 6 39 | 16 29 | 4 51 |
| T 5 | 6 42 | 2n28 | 4 43 | 13 23 | 1 27 | 8 51 | 1 24 | 8 57 | 1 5 | 20 25 | 0 56 | 4 9 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 32 | 8 27 | 22 26 | 22 37 | 6 36 | 16 29 | 4 50 |
| W 6 | 6 20 | 7 30 | 5 0 | 12 52 | 1 33 | 8 23 | 1 25 | 8 43 | 1 5 | 20 26 | 0 56 | 4 7 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 28 | 22 27 | 22 37 | 6 33 | 16 30 | 4 50 |
| T 7 | 5 58 | 12 17 | 5 4 | 12 19 | 1 38 | 7 55 | 1 25 | 8 28 | 1 4 | 20 26 | 0 56 | 4 4 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 28 | 22 28 | 22 37 | 6 30 | 16 31 | 4 50 |
| F 8 | 5 35 | 16 39 | 4 54 | 11 44 | 1 42 | 7 26 | 1 25 | 8 13 | 1 4 | 20 27 | 0 56 | 4 1 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 28 | 22 29 | 22 38 | 6 28 | 16 32 | 4 50 |
| S 9 | 5 12 | 20 22 | 4 29 | 11 6 | 1 45 | 6 57 | 1 25 | 7 58 | 1 4 | 20 27 | 0 56 | 3 58 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 28 | 22 30 | 22 38 | 6 25 | 16 32 | 4 49 |
| S 10 | 4 49 | 23 12 | 3 52 | 10 27 | 1 47 | 6 28 | 1 25 | 7 43 | 1 4 | 20 27 | 0 56 | 3 55 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 28 | 22 31 | 22 39 | 6 22 | 16 33 | 4 49 |
| M11 | 4 26 | 24 55 | 3 2 | 9 47 | 1 49 | 5 59 | 1 25 | 7 28 | 1 4 | 20 28 | 0 57 | 3 52 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 28 | 22 31 | 22 39 | 6 19 | 16 34 | 4 49 |
| T 12 | 4 3 | 25 18 | 2 1 | 9 5 | 1 50 | 5 29 | 1 25 | 7 13 | 1 4 | 20 28 | 0 57 | 3 49 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 28 | 22 31 | 22 39 | 6 16 | 16 35 | 4 48 |
| W13 | 3 40 | 24 12 | 0 52 | 8 22 | 1 49 | 4 59 | 1 24 | 6 58 | 1 3 | 20 29 | 0 57 | 3 46 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 31 | 8 29 | 22 31 | 22 40 | 6 13 | 16 36 | 4 48 |
| T 14 | 3 17 | 21 35 | 0s22 | 7 37 | 1 49 | 4 30 | 1 24 | 6 43 | 1 3 | 20 29 | 0 57 | 3 43 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 30 | 8 29 | 22 31 | 22 40 | 6 10 | 16 37 | 4 48 |
| F 15 | 2 54 | 17 34 | 1 37 | 6 53 | 1 47 | 4 0 | 1 24 | 6 28 | 1 3 | 20 29 | 0 57 | 3 40 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 30 | 8 29 | 22 31 | 22 40 | 6 7 | 16 38 | 4 48 |
| S 16 | 2 31 | 12 22 | 2 47 | 6 7 | 1 45 | 3 30 | 1 23 | 6 13 | 1 3 | 20 29 | 0 57 | 3 37 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 30 | 8 29 | 22 31 | 22 41 | 6 4 | 16 38 | 4 47 |
| S 17 | 2 7 | 6 21 | 3 47 | 5 21 | 1 43 | 2 59 | 1 23 | 5 58 | 1 3 | 20 29 | 0 57 | 3 34 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 30 | 8 29 | 22 32 | 22 41 | 6 1 | 16 39 | 4 47 |
| M18 | 1 44 | 0s 5 | 4 32 | 4 34 | 1 40 | 2 29 | 1 22 | 5 43 | 1 2 | 20 30 | 0 57 | 3 31 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 30 | 8 29 | 22 33 | 22 41 | 5 58 | 16 40 | 4 47 |
| T 19 | 1 21 | 6 29 | 4 57 | 3 47 | 1 36 | 1 59 | 1 22 | 5 27 | 1 2 | 20 30 | 0 57 | 3 28 | 2 3 | 23 32 | 0 24 | 22 20 | 1 8 | 14 30 | 8 29 | 22 34 | 22 42 | 5 55 | 16 41 | 4 47 |
| W20 | 0 57 | 12 25 | 5 1 | 3 0 | 1 32 | 1 28 | 1 21 | 5 12 | 1 2 | 20 30 | 0 57 | 3 25 | 2 3 | 23 32 | 0 24 | 22 20 | 1 7 | 14 30 | 8 30 | 22 36 | 22 42 | 5 52 | 16 42 | 4 46 |
| T 21 | 0 34 | 17 31 | 4 45 | 2 13 | 1 28 | 0 58 | 1 20 | 4 57 | 1 2 | 20 30 | 0 57 | 3 22 | 2 3 | 23 32 | 0 24 | 22 20 | 1 7 | 14 29 | 8 30 | 22 37 | 22 42 | 5 49 | 16 43 | 4 46 |
| F 22 | 0 10 | 21 27 | 4 12 | 1 26 | 1 23 | 0 27 | 1 19 | 4 41 | 1 1 | 20 30 | 0 57 | 3 20 | 2 4 | 23 32 | 0 24 | 22 20 | 1 7 | 14 29 | 8 30 | 22 38 | 22 43 | 5 46 | 16 44 | 4 46 |
| S 23 | 0s13 | 24 2 | 3 26 | 0 39 | 1 18 | 0s 3 | 1 18 | 4 26 | 1 1 | 20 30 | 0 58 | 3 17 | 2 4 | 23 32 | 0 24 | 22 20 | 1 7 | 14 29 | 8 30 | 22 38 | 22 43 | 5 43 | 16 45 | 4 46 |
| S 24 | 0 37 | 25 10 | 2 29 | 0s 8 | 1 13 | 0 34 | 1 17 | 4 10 | 1 1 | 20 30 | 0 58 | 3 14 | 2 4 | 23 32 | 0 23 | 22 20 | 1 7 | 14 29 | 8 30 | 22 38 | 22 43 | 5 40 | 16 46 | 4 45 |
| M25 | 1 0 | 24 56 | 1 27 | 0 55 | 1 8 | 1 5 | 1 16 | 3 55 | 1 1 | 20 30 | 0 58 | 3 11 | 2 4 | 23 32 | 0 23 | 22 21 | 1 7 | 14 29 | 8 30 | 22 39 | 22 44 | 5 37 | 16 47 | 4 45 |
| T 26 | 1 24 | 23 26 | 0 23 | 1 42 | 1 2 | 1 35 | 1 15 | 3 39 | 1 1 | 20 30 | 0 58 | 3 8 | 2 4 | 23 32 | 0 23 | 22 21 | 1 7 | 14 29 | 8 30 | 22 39 | 22 44 | 5 34 | 16 48 | 4 45 |
| W27 | 1 47 | 20 52 | 0n42 | 2 28 | 0 56 | 2 6 | 1 14 | 3 24 | 1 0 | 20 30 | 0 58 | 3 5 | 2 4 | 23 32 | 0 23 | 22 21 | 1 7 | 14 29 | 8 30 | 22 39 | 22 44 | 5 32 | 16 49 | 4 45 |
| T 28 | 2 11 | 17 26 | 1 43 | 3 14 | 0 50 | 2 36 | 1 13 | 3 8 | 1 0 | 20 29 | 0 58 | 3 2 | 2 4 | 23 32 | 0 23 | 22 21 | 1 7 | 14 28 | 8 31 | 22 39 | 22 45 | 5 29 | 16 50 | 4 44 |
| F 29 | 2 34 | 13 21 | 2 39 | 4 0 | 0 44 | 3 7 | 1 12 | 2 53 | 1 0 | 20 29 | 0 58 | 2 59 | 2 4 | 23 32 | 0 23 | 22 21 | 1 7 | 14 28 | 8 31 | 22 39 | 22 45 | 5 26 | 16 51 | 4 44 |
| S 30 | 2s57 | 8s47 | 3n28 | 4s45 | 0n37 | 3s38 | 1n11 | 2n37 | 1n 0 | 20n29 | 0s58 | 2n56 | 2n 4 | 23s32 | 0s23 | 22s21 | 1n 7 | 14n28 | 8s31 | 22s40 | 22s45 | 5s23 | 16s52 | 4n44 |

Julian Day Number = 2326145.5, Delta T = 38.68 sec
Ecliptic obliquity = 23°29'05, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'53, Lahiri = 19°03'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## OCTOBER 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 41 24 | 8♎25'24 | 10♓18 | 15♎ 9 | 13♎ 8 | 26♍22 | 6°R29 | 27♍30 | 9♑35 | 27♐38 | 18°R 5 | 14°R37 | 13♑52 | 6♓31 | 7♐ 8 | S 1 |
| M 2 | 0 45 21 | 9°24'36 | 22°13 | 16°48 | 14°23 | 27° 1 | 6♊27 | 27°37 | 9°36 | 27°39 | 18♊ 5 | 14♑25 | 13°48 | 6°38 | 7°13 | M 2 |
| T 3 | 0 49 18 | 10°23'51 | 4♈14 | 18°27 | 15°38 | 27°39 | 6°26 | 27°45 | 9°37 | 27°40 | 18° 5 | 14°11 | 13°45 | 6°45 | 7°18 | T 3 |
| W 4 | 0 53 14 | 11°23'07 | 16°23 | 20° 5 | 16°53 | 28°18 | 6°24 | 27°52 | 9°38 | 27°40 | 18° 4 | 13°57 | 13°42 | 6°51 | 7°23 | W 4 |
| T 5 | 0 57 11 | 12°22'25 | 28°40 | 21°42 | 18° 8 | 28°57 | 6°22 | 27°59 | 9°38 | 27°41 | 18° 4 | 13°43 | 13°39 | 6°58 | 7°28 | T 5 |
| F 6 | 1 1 7 | 13°21'46 | 11♉ 7 | 23°18 | 19°23 | 29°35 | 6°20 | 28° 7 | 9°39 | 27°42 | 18° 4 | 13°31 | 13°36 | 7° 5 | 7°33 | F 6 |
| S 7 | 1 5 4 | 14°21'08 | 23°43 | 24°54 | 20°38 | 0♎14 | 6°17 | 28°14 | 9°40 | 27°43 | 18° 3 | 13°22 | 13°33 | 7°11 | 7°38 | S 7 |
| S 8 | 1 9 0 | 15°20'33 | 6♊30 | 26°29 | 21°53 | 0°53 | 6°15 | 28°21 | 9°41 | 27°44 | 18° 3 | 13°15 | 13°29 | 7°18 | 7°43 | S 8 |
| M 9 | 1 12 57 | 16°20'01 | 19°29 | 28° 3 | 23° 8 | 1°32 | 6°12 | 28°28 | 9°42 | 27°45 | 18° 2 | 13°11 | 13°26 | 7°25 | 7°49 | M 9 |
| T 10 | 1 16 53 | 17°19'30 | 2♋43 | 29°36 | 24°23 | 2°11 | 6° 9 | 28°36 | 9°43 | 27°46 | 18° 2 | 13°10 | 13°23 | 7°32 | 7°54 | T 10 |
| W11 | 1 20 50 | 18°19'02 | 16°13 | 1♏ 9 | 25°38 | 2°50 | 6° 5 | 28°43 | 9°45 | 27°47 | 18° 1 | 13°10 | 13°20 | 7°38 | 7°59 | W11 |
| T 12 | 1 24 47 | 19°18'36 | 0♌ 3 | 2°42 | 26°53 | 3°29 | 6° 2 | 28°50 | 9°46 | 27°48 | 18° 1 | 13°10 | 13°17 | 7°45 | 8° 5 | T 12 |
| F 13 | 1 28 43 | 20°18'13 | 14°12 | 4°13 | 28° 8 | 4° 7 | 5°58 | 28°57 | 9°47 | 27°49 | 18° 0 | 13° 8 | 13°14 | 7°52 | 8°10 | F 13 |
| S 14 | 1 32 40 | 21°17'52 | 28°40 | 5°44 | 29°23 | 4°46 | 5°55 | 29° 4 | 9°48 | 27°50 | 18° 0 | 13° 4 | 13°10 | 7°58 | 8°16 | S 14 |
| S 15 | 1 36 36 | 22°17'33 | 13♍24 | 7°15 | 0♏38 | 5°25 | 5°51 | 29°11 | 9°50 | 27°52 | 17°59 | 12°58 | 13° 7 | 8° 5 | 8°22 | S 15 |
| M16 | 1 40 33 | 23°17'16 | 28°18 | 8°44 | 1°53 | 6° 4 | 5°47 | 29°18 | 9°51 | 27°53 | 17°59 | 12°48 | 13° 4 | 8°12 | 8°27 | M16 |
| T 17 | 1 44 29 | 24°17'02 | 13♎14 | 10°14 | 3° 8 | 6°43 | 5°42 | 29°25 | 9°52 | 27°54 | 17°58 | 12°37 | 13° 1 | 8°18 | 8°33 | T 17 |
| W18 | 1 48 26 | 25°16'49 | 28° 2 | 11°42 | 4°23 | 7°22 | 5°38 | 29°32 | 9°54 | 27°55 | 17°57 | 12°26 | 12°58 | 8°25 | 8°39 | W18 |
| T 19 | 1 52 22 | 26°16'39 | 12♏34 | 13°10 | 5°38 | 8° 1 | 5°33 | 29°39 | 9°55 | 27°57 | 17°57 | 12°15 | 12°54 | 8°32 | 8°45 | T 19 |
| F 20 | 1 56 19 | 27°16'30 | 26°44 | 14°37 | 6°53 | 8°40 | 5°28 | 29°46 | 9°57 | 27°58 | 17°56 | 12° 6 | 12°51 | 8°39 | 8°51 | F 20 |
| S 21 | 2 0 16 | 28°16'24 | 10♐27 | 16° 4 | 8° 8 | 9°19 | 5°23 | 29°53 | 9°59 | 27°59 | 17°55 | 12° 0 | 12°48 | 8°45 | 8°57 | S 21 |
| S 22 | 2 4 12 | 29°16'19 | 23°42 | 17°30 | 9°23 | 9°58 | 5°18 | 29°59 | 10° 0 | 28° 1 | 17°55 | 11°56 | 12°45 | 8°52 | 9° 3 | S 22 |
| M23 | 2 8 9 | 0♏16'16 | 6♑31 | 18°55 | 10°38 | 10°37 | 5°13 | 0♎ 7 | 10° 2 | 28° 2 | 17°54 | 11°D55 | 12°42 | 8°59 | 9° 9 | M23 |
| T 24 | 2 12 5 | 1°16'14 | 18°59 | 20°19 | 11°53 | 11°17 | 5° 7 | 0°14 | 10° 4 | 28° 3 | 17°53 | 11°55 | 12°39 | 9° 5 | 9°15 | T 24 |
| W25 | 2 16 2 | 2°16'15 | 1♒ 9 | 21°43 | 13° 8 | 11°56 | 5° 1 | 0°20 | 10° 6 | 28° 5 | 17°52 | 11°R55 | 12°35 | 9°12 | 9°21 | W25 |
| T 26 | 2 19 58 | 3°16'16 | 13° 7 | 23° 5 | 14°23 | 12°35 | 4°55 | 0°27 | 10° 7 | 28° 6 | 17°52 | 11°55 | 12°32 | 9°19 | 9°27 | T 26 |
| F 27 | 2 23 55 | 4°16'20 | 24°58 | 24°27 | 15°38 | 13°14 | 4°49 | 0°34 | 10° 9 | 28° 8 | 17°51 | 11°52 | 12°29 | 9°25 | 9°34 | F 27 |
| S 28 | 2 27 51 | 5°16'25 | 6♓48 | 25°48 | 16°53 | 13°53 | 4°43 | 0°40 | 10°11 | 28° 9 | 17°50 | 11°48 | 12°26 | 9°32 | 9°40 | S 28 |
| S 29 | 2 31 48 | 6°16'31 | 18°41 | 27° 8 | 18° 8 | 14°32 | 4°37 | 0°47 | 10°13 | 28°11 | 17°49 | 11°40 | 12°23 | 9°39 | 9°46 | S 29 |
| M30 | 2 35 45 | 7°16'39 | 0♈40 | 28°27 | 19°23 | 15°12 | 4°31 | 0°53 | 10°15 | 28°12 | 17°48 | 11°31 | 12°19 | 9°46 | 9°53 | M30 |
| T 31 | 2 39 41 | 8♏16'49 | 12♈48 | 29♏44 | 20♏38 | 15♎51 | 4♊24 | 1♎ 0 | 10♑17 | 28♐14 | 17♊48 | 11♑20 | 12♑16 | 9♓52 | 9♐59 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s21 | 3s53 | 4n 8 | 5s30 | 0n31 | 4s 8 | 1n 9 | 2n21 | 0n59 | 20n29 | 0s58 | 2n54 | 2n 4 | 23s32 | 0s23 | 22s21 | 1n 7 | 14n28 | 8s31 | 22s41 | 22s46 | 5s20 | 16s53 | 4n44 |
| M 2 | 3 44 | 1n10 | 4 38 | 6 15 | 0 24 | 4 38 | 1 8 | 2 6 | 0 59 | 20 28 | 0 58 | 2 51 | 2 4 | 23 32 | 0 23 | 22 21 | 1 7 | 14 28 | 8 31 | 22 42 | 22 46 | 5 17 | 16 54 | 4 43 |
| T 3 | 4 7 | 6 12 | 4 55 | 6 59 | 0 17 | 5 9 | 1 6 | 1 50 | 0 59 | 20 28 | 0 58 | 2 48 | 2 4 | 23 31 | 0 23 | 22 21 | 1 7 | 14 28 | 8 31 | 22 44 | 22 46 | 5 14 | 16 55 | 4 43 |
| W 4 | 4 31 | 11 3 | 4 59 | 7 42 | 0 11 | 5 39 | 1 5 | 1 34 | 0 59 | 20 28 | 0 58 | 2 45 | 2 4 | 23 31 | 0 23 | 22 21 | 1 7 | 14 27 | 8 31 | 22 45 | 22 47 | 5 11 | 16 56 | 4 43 |
| T 5 | 4 54 | 15 32 | 4 50 | 8 25 | 0 4 | 6 9 | 1 3 | 1 19 | 0 58 | 20 27 | 0 58 | 2 42 | 2 4 | 23 31 | 0 23 | 22 21 | 1 7 | 14 27 | 8 32 | 22 47 | 22 47 | 5 8 | 16 57 | 4 43 |
| F 6 | 5 17 | 19 24 | 4 26 | 9 7 | 0s 3 | 6 39 | 1 2 | 1 3 | 0 58 | 20 27 | 0 58 | 2 39 | 2 4 | 23 31 | 0 23 | 22 21 | 1 7 | 14 27 | 8 32 | 22 48 | 22 47 | 5 5 | 16 58 | 4 43 |
| S 7 | 5 40 | 22 26 | 3 49 | 9 49 | 0 10 | 7 9 | 1 0 | 0 47 | 0 58 | 20 26 | 0 58 | 2 36 | 2 5 | 23 31 | 0 23 | 22 21 | 1 7 | 14 27 | 8 32 | 22 49 | 22 48 | 5 2 | 16 59 | 4 42 |
| S 8 | 6 3 | 24 24 | 3 1 | 10 30 | 0 17 | 7 38 | 0 59 | 0 32 | 0 58 | 20 26 | 0 59 | 2 34 | 2 5 | 23 31 | 0 23 | 22 21 | 1 7 | 14 27 | 8 32 | 22 49 | 22 48 | 4 59 | 17 0 | 4 42 |
| M 9 | 6 26 | 25 5 | 2 2 | 11 10 | 0 24 | 8 8 | 0 57 | 0 16 | 0 57 | 20 25 | 0 59 | 2 31 | 2 5 | 23 31 | 0 23 | 22 21 | 1 7 | 14 27 | 8 32 | 22 50 | 22 48 | 4 56 | 17 1 | 4 42 |
| T 10 | 6 49 | 24 22 | 0 55 | 11 50 | 0 31 | 8 37 | 0 55 | 0 0 | 0 57 | 20 25 | 0 59 | 2 28 | 2 5 | 23 31 | 0 23 | 22 21 | 1 7 | 14 26 | 8 32 | 22 50 | 22 49 | 4 53 | 17 2 | 4 42 |
| W11 | 7 12 | 22 14 | 0s16 | 12 29 | 0 38 | 9 6 | 0 53 | 0s15 | 0 57 | 20 24 | 0 59 | 2 25 | 2 5 | 23 31 | 0 23 | 22 21 | 1 7 | 14 26 | 8 32 | 22 50 | 22 49 | 4 50 | 17 3 | 4 42 |
| T 12 | 7 34 | 18 45 | 1 28 | 13 8 | 0 45 | 9 35 | 0 51 | 0 31 | 0 57 | 20 24 | 0 59 | 2 23 | 2 5 | 23 31 | 0 23 | 22 22 | 1 6 | 14 26 | 8 32 | 22 50 | 22 49 | 4 47 | 17 4 | 4 42 |
| F 13 | 7 57 | 14 7 | 2 36 | 13 45 | 0 51 | 10 4 | 0 49 | 0 47 | 0 56 | 20 23 | 0 59 | 2 20 | 2 5 | 23 31 | 0 23 | 22 22 | 1 6 | 14 26 | 8 33 | 22 50 | 22 50 | 4 44 | 17 5 | 4 41 |
| S 14 | 8 19 | 8 35 | 3 36 | 14 22 | 0 58 | 10 32 | 0 47 | 1 3 | 0 56 | 20 22 | 0 59 | 2 17 | 2 5 | 23 30 | 0 23 | 22 22 | 1 6 | 14 26 | 8 33 | 22 50 | 22 50 | 4 41 | 17 6 | 4 41 |
| S 15 | 8 42 | 2 30 | 4 22 | 14 59 | 1 5 | 11 0 | 0 45 | 1 18 | 0 56 | 20 21 | 0 59 | 2 14 | 2 5 | 23 30 | 0 23 | 22 22 | 1 6 | 14 26 | 8 33 | 22 51 | 22 50 | 4 38 | 17 7 | 4 41 |
| M16 | 9 4 | 3s46 | 4 51 | 15 34 | 1 11 | 11 28 | 0 43 | 1 34 | 0 55 | 20 21 | 0 59 | 2 12 | 2 6 | 23 30 | 0 23 | 22 22 | 1 6 | 14 25 | 8 33 | 22 52 | 22 51 | 4 35 | 17 8 | 4 41 |
| T 17 | 9 26 | 9 51 | 5 1 | 16 9 | 1 18 | 11 56 | 0 41 | 1 50 | 0 55 | 20 20 | 0 59 | 2 9 | 2 6 | 23 30 | 0 23 | 22 22 | 1 6 | 14 25 | 8 33 | 22 53 | 22 51 | 4 33 | 17 9 | 4 41 |
| W18 | 9 48 | 15 18 | 4 50 | 16 42 | 1 24 | 12 23 | 0 39 | 2 5 | 0 55 | 20 19 | 0 59 | 2 6 | 2 6 | 23 30 | 0 23 | 22 22 | 1 6 | 14 25 | 8 33 | 22 54 | 22 51 | 4 30 | 17 10 | 4 41 |
| T 19 | 10 10 | 19 46 | 4 20 | 17 15 | 1 31 | 12 50 | 0 37 | 2 21 | 0 55 | 20 18 | 0 59 | 2 4 | 2 6 | 23 30 | 0 23 | 22 22 | 1 6 | 14 25 | 8 33 | 22 55 | 22 51 | 4 27 | 17 11 | 4 41 |
| F 20 | 10 31 | 22 57 | 3 35 | 17 48 | 1 37 | 13 17 | 0 35 | 2 37 | 0 54 | 20 17 | 0 59 | 2 1 | 2 6 | 23 30 | 0 23 | 22 22 | 1 6 | 14 25 | 8 33 | 22 56 | 22 52 | 4 24 | 17 12 | 4 40 |
| S 21 | 10 53 | 24 40 | 2 39 | 18 19 | 1 43 | 13 44 | 0 33 | 2 52 | 0 54 | 20 16 | 0 59 | 1 58 | 2 6 | 23 30 | 0 23 | 22 22 | 1 6 | 14 25 | 8 33 | 22 57 | 22 52 | 4 21 | 17 13 | 4 40 |
| S 22 | 11 14 | 24 55 | 1 35 | 18 49 | 1 48 | 14 10 | 0 30 | 3 8 | 0 54 | 20 16 | 0 59 | 1 56 | 2 6 | 23 29 | 0 23 | 22 22 | 1 6 | 14 24 | 8 34 | 22 57 | 22 52 | 4 18 | 17 14 | 4 40 |
| M23 | 11 35 | 23 48 | 0 29 | 19 18 | 1 54 | 14 36 | 0 28 | 3 24 | 0 53 | 20 15 | 0 59 | 1 53 | 2 6 | 23 29 | 0 23 | 22 22 | 1 6 | 14 24 | 8 34 | 22 57 | 22 53 | 4 15 | 17 15 | 4 40 |
| T 24 | 11 56 | 21 31 | 0n37 | 19 47 | 1 59 | 15 1 | 0 26 | 3 39 | 0 53 | 20 14 | 0 59 | 1 51 | 2 7 | 23 29 | 0 23 | 22 22 | 1 6 | 14 24 | 8 34 | 22 57 | 22 53 | 4 12 | 17 16 | 4 40 |
| W25 | 12 17 | 18 19 | 1 40 | 20 14 | 2 5 | 15 26 | 0 24 | 3 55 | 0 53 | 20 13 | 0 59 | 1 48 | 2 7 | 23 29 | 0 23 | 22 22 | 1 6 | 14 24 | 8 34 | 22 57 | 22 53 | 4 9 | 17 17 | 4 40 |
| T 26 | 12 38 | 14 23 | 2 38 | 20 40 | 2 10 | 15 51 | 0 21 | 4 11 | 0 52 | 20 11 | 0 59 | 1 46 | 2 7 | 23 29 | 0 23 | 22 22 | 1 6 | 14 24 | 8 34 | 22 57 | 22 54 | 4 6 | 17 18 | 4 40 |
| F 27 | 12 58 | 9 57 | 3 28 | 21 5 | 2 14 | 16 15 | 0 19 | 4 26 | 0 52 | 20 10 | 0 59 | 1 43 | 2 7 | 23 29 | 0 23 | 22 22 | 1 6 | 14 24 | 8 34 | 22 57 | 22 54 | 4 3 | 17 19 | 4 40 |
| S 28 | 13 18 | 5 11 | 4 9 | 21 29 | 2 19 | 16 39 | 0 16 | 4 42 | 0 52 | 20 9 | 0 59 | 1 41 | 2 7 | 23 29 | 0 23 | 22 22 | 1 6 | 14 24 | 8 34 | 22 58 | 22 54 | 4 0 | 17 20 | 4 40 |
| S 29 | 13 38 | 0 12 | 4 39 | 21 52 | 2 23 | 17 2 | 0 14 | 4 57 | 0 51 | 20 8 | 0 59 | 1 38 | 2 7 | 23 28 | 0 23 | 22 23 | 1 6 | 14 23 | 8 34 | 22 58 | 22 54 | 3 57 | 17 21 | 4 40 |
| M30 | 13 58 | 4n49 | 4 58 | 22 14 | 2 27 | 17 25 | 0 12 | 5 13 | 0 51 | 20 7 | 0 59 | 1 36 | 2 7 | 23 28 | 0 23 | 22 23 | 1 6 | 14 23 | 8 34 | 22 59 | 22 55 | 3 54 | 17 22 | 4 39 |
| T 31 | 14s18 | 9n43 | 5n 3 | 22s35 | 2s30 | 17s48 | 0n 9 | 5s28 | 0n51 | 20n 6 | 0s59 | 1n33 | 2n 8 | 23s28 | 0s23 | 22s23 | 1n 6 | 14n23 | 8s34 | 23s 0 | 22s55 | 3s51 | 17s23 | 4n39 |

Julian Day Number = 2326175.5, Delta T = 38.62 sec
Ecliptic obliquity = 23°29'05, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°56'57, Lahiri = 19°03'58Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## NOVEMBER 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 43 38 | 9♏17'01 | 25♈ 8 | 1♐ 0 | 21♏53 | 16♎30 | 4°R17 | 1♎ 6 | 10♑19 | 28♐16 | 17°R47 | 11°R 8 | 12♑13 | 9♓59 | 10♐ 5 | W 1 |
| T 2 | 2 47 34 | 10°17'14 | 7♉40 | 2°14 | 23° 8 | 17° 9 | 4♊11 | 1°12 | 10°22 | 28°17 | 17♊46 | 10♑56 | 12°10 | 10° 6 | 10°12 | T 2 |
| F 3 | 2 51 31 | 11°17'29 | 20°23 | 3°27 | 24°23 | 17°49 | 4° 4 | 1°19 | 10°24 | 28°19 | 17°45 | 10°46 | 12° 7 | 10°12 | 10°18 | F 3 |
| S 4 | 2 55 27 | 12°17'46 | 3♊18 | 4°38 | 25°38 | 18°28 | 3°57 | 1°25 | 10°26 | 28°21 | 17°44 | 10°38 | 12° 4 | 10°19 | 10°25 | S 4 |
| S 5 | 2 59 24 | 13°18'05 | 16°25 | 5°46 | 26°53 | 19° 7 | 3°49 | 1°31 | 10°28 | 28°22 | 17°43 | 10°33 | 12° 0 | 10°26 | 10°31 | S 5 |
| M 6 | 3 3 20 | 14°18'26 | 29°42 | 6°52 | 28° 8 | 19°47 | 3°42 | 1°37 | 10°31 | 28°24 | 17°42 | 10°30 | 11°57 | 10°32 | 10°38 | M 6 |
| T 7 | 3 7 17 | 15°18'48 | 13♋10 | 7°56 | 29°24 | 20°26 | 3°35 | 1°43 | 10°33 | 28°26 | 17°41 | 10°D30 | 11°54 | 10°39 | 10°45 | T 7 |
| W 8 | 3 11 14 | 16°19'13 | 26°49 | 8°56 | 0♑39 | 21° 5 | 3°27 | 1°50 | 10°35 | 28°28 | 17°40 | 10°30 | 11°51 | 10°46 | 10°51 | W 8 |
| T 9 | 3 15 10 | 17°19'39 | 10♌40 | 9°53 | 1°54 | 21°45 | 3°20 | 1°55 | 10°38 | 28°29 | 17°39 | 10°R31 | 11°48 | 10°53 | 10°58 | T 9 |
| F 10 | 3 19 7 | 18°20'08 | 24°42 | 10°46 | 3° 9 | 22°24 | 3°12 | 2° 1 | 10°40 | 28°31 | 17°38 | 10°31 | 11°45 | 10°59 | 11° 5 | F 10 |
| S 11 | 3 23 3 | 19°20'38 | 8♍55 | 11°35 | 4°24 | 23° 4 | 3° 4 | 2° 7 | 10°43 | 28°33 | 17°37 | 10°30 | 11°41 | 11° 6 | 11°11 | S 11 |
| S 12 | 3 27 0 | 20°21'10 | 23°17 | 12°18 | 5°39 | 23°43 | 2°57 | 2°13 | 10°45 | 28°35 | 17°36 | 10°26 | 11°38 | 11°13 | 11°18 | S 12 |
| M13 | 3 30 56 | 21°21'44 | 7♎45 | 12°56 | 6°54 | 24°23 | 2°49 | 2°19 | 10°48 | 28°37 | 17°35 | 10°20 | 11°35 | 11°19 | 11°25 | M13 |
| T 14 | 3 34 53 | 22°22'20 | 22°14 | 13°28 | 8° 9 | 25° 2 | 2°41 | 2°24 | 10°51 | 28°39 | 17°34 | 10°12 | 11°32 | 11°26 | 11°32 | T 14 |
| W15 | 3 38 49 | 23°22'57 | 6♏38 | 13°53 | 9°24 | 25°42 | 2°33 | 2°30 | 10°53 | 28°41 | 17°33 | 10° 4 | 11°29 | 11°33 | 11°39 | W15 |
| T 16 | 3 42 46 | 24°23'36 | 20°49 | 14°10 | 10°39 | 26°21 | 2°25 | 2°36 | 10°56 | 28°43 | 17°32 | 9°57 | 11°25 | 11°39 | 11°46 | T 16 |
| F 17 | 3 46 43 | 25°24'17 | 4♐44 | 14°R19 | 11°54 | 27° 1 | 2°17 | 2°41 | 10°59 | 28°45 | 17°31 | 9°50 | 11°22 | 11°46 | 11°52 | F 17 |
| S 18 | 3 50 39 | 26°24'59 | 18°18 | 14°18 | 13° 9 | 27°41 | 2° 9 | 2°47 | 11° 1 | 28°47 | 17°30 | 9°46 | 11°19 | 11°53 | 11°59 | S 18 |
| S 19 | 3 54 36 | 27°25'42 | 1♑29 | 14° 7 | 14°24 | 28°20 | 2° 1 | 2°52 | 11° 4 | 28°49 | 17°29 | 9°44 | 11°16 | 12° 0 | 12° 6 | S 19 |
| M20 | 3 58 32 | 28°26'26 | 14°18 | 13°46 | 15°39 | 29° 0 | 1°52 | 2°57 | 11° 7 | 28°51 | 17°28 | 9°D44 | 11°13 | 12° 6 | 12°13 | M20 |
| T 21 | 4 2 29 | 29°27'12 | 26°47 | 13°14 | 16°54 | 29°40 | 1°44 | 3° 2 | 11°10 | 28°53 | 17°27 | 9°45 | 11°10 | 12°13 | 12°20 | T 21 |
| W22 | 4 6 25 | 0♐27'58 | 9♒ 0 | 12°31 | 18° 9 | 0♏19 | 1°36 | 3° 7 | 11°13 | 28°55 | 17°26 | 9°47 | 11° 6 | 12°20 | 12°27 | W22 |
| T 23 | 4 10 22 | 1°28'46 | 21° 0 | 11°38 | 19°24 | 0°59 | 1°28 | 3°13 | 11°16 | 28°57 | 17°24 | 9°48 | 11° 3 | 12°26 | 12°34 | T 23 |
| F 24 | 4 14 18 | 2°29'34 | 2♓53 | 10°35 | 20°39 | 1°39 | 1°20 | 3°18 | 11°19 | 28°59 | 17°23 | 9°R49 | 11° 0 | 12°33 | 12°41 | F 24 |
| S 25 | 4 18 15 | 3°30'24 | 14°44 | 9°24 | 21°54 | 2°18 | 1°11 | 3°22 | 11°22 | 29° 1 | 17°22 | 9°48 | 10°57 | 12°40 | 12°48 | S 25 |
| S 26 | 4 22 12 | 4°31'14 | 26°38 | 8° 6 | 23° 9 | 2°58 | 1° 3 | 3°27 | 11°25 | 29° 3 | 17°21 | 9°45 | 10°54 | 12°47 | 12°55 | S 26 |
| M27 | 4 26 8 | 5°32'05 | 8♈40 | 6°44 | 24°24 | 3°38 | 0°55 | 3°32 | 11°28 | 29° 5 | 17°20 | 9°41 | 10°51 | 12°53 | 13° 2 | M27 |
| T 28 | 4 30 5 | 6°32'58 | 20°52 | 5°22 | 25°39 | 4°18 | 0°47 | 3°37 | 11°31 | 29° 7 | 17°19 | 9°36 | 10°47 | 13° 0 | 13° 9 | T 28 |
| W29 | 4 34 1 | 7°33'51 | 3♉19 | 4° 0 | 26°54 | 4°58 | 0°39 | 3°41 | 11°34 | 29° 9 | 17°18 | 9°31 | 10°44 | 13° 7 | 13°16 | W29 |
| T 30 | 4 37 58 | 8♐34'45 | 16♉ 2 | 2♐43 | 28♐ 9 | 5♏38 | 0♊31 | 3♎46 | 11♑37 | 29♐11 | 17♊16 | 9♑25 | 10♑41 | 13♓13 | 13♐23 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14s37 | 14n18 | 4n54 | 22s54 | 2s33 | 18s10 | 0n 7 | 5s43 | 0n50 | 20n 5 | 0s59 | 1n31 | 2n 8 | 23s28 | 0s23 | 22s23 | 1n 6 | 14n23 | 8s34 | 23s 1 | 22s55 | 3s48 | 17s24 | 4n39 |
| T 2 | 14 56 | 18 22 | 4 31 | 23 12 | 2 36 | 18 31 | 0 4 | 5 59 | 0 50 | 20 3 | 0 59 | 1 28 | 2 8 | 23 28 | 0 23 | 22 23 | 1 6 | 14 23 | 8 34 | 23 2 | 22 56 | 3 45 | 17 25 | 4 39 |
| F 3 | 15 15 | 21 38 | 3 54 | 23 28 | 2 38 | 18 52 | 0 2 | 6 14 | 0 50 | 20 2 | 0 59 | 1 26 | 2 8 | 23 28 | 0 23 | 22 23 | 1 6 | 14 23 | 8 35 | 23 3 | 22 56 | 3 42 | 17 26 | 4 39 |
| S 4 | 15 33 | 23 53 | 3 5 | 23 43 | 2 40 | 19 13 | 0s 1 | 6 29 | 0 49 | 20 1 | 0 59 | 1 24 | 2 8 | 23 27 | 0 23 | 22 23 | 1 6 | 14 22 | 8 35 | 23 3 | 22 56 | 3 39 | 17 27 | 4 39 |
| S 5 | 15 52 | 24 52 | 2 5 | 23 57 | 2 41 | 19 33 | 0 3 | 6 45 | 0 49 | 20 0 | 0 59 | 1 21 | 2 8 | 23 27 | 0 23 | 22 23 | 1 6 | 14 22 | 8 35 | 23 4 | 22 56 | 3 37 | 17 28 | 4 39 |
| M 6 | 16 10 | 24 27 | 0 58 | 24 9 | 2 42 | 19 52 | 0 6 | 7 0 | 0 49 | 19 58 | 0 59 | 1 19 | 2 9 | 23 27 | 0 23 | 22 23 | 1 5 | 14 22 | 8 35 | 23 4 | 22 57 | 3 34 | 17 29 | 4 39 |
| T 7 | 16 28 | 22 36 | 0s14 | 24 20 | 2 42 | 20 11 | 0 8 | 7 15 | 0 48 | 19 57 | 0 59 | 1 17 | 2 9 | 23 27 | 0 23 | 22 23 | 1 5 | 14 22 | 8 35 | 23 4 | 22 57 | 3 31 | 17 30 | 4 39 |
| W 8 | 16 45 | 19 25 | 1 27 | 24 29 | 2 41 | 20 30 | 0 11 | 7 30 | 0 48 | 19 56 | 0 59 | 1 15 | 2 9 | 23 27 | 0 23 | 22 23 | 1 5 | 14 22 | 8 35 | 23 4 | 22 57 | 3 28 | 17 31 | 4 39 |
| T 9 | 17 2 | 15 7 | 2 35 | 24 36 | 2 40 | 20 48 | 0 13 | 7 45 | 0 48 | 19 54 | 0 59 | 1 12 | 2 9 | 23 26 | 0 23 | 22 23 | 1 5 | 14 22 | 8 35 | 23 4 | 22 58 | 3 25 | 17 31 | 4 39 |
| F 10 | 17 19 | 9 57 | 3 35 | 24 42 | 2 38 | 21 5 | 0 16 | 8 0 | 0 47 | 19 53 | 0 58 | 1 10 | 2 9 | 23 26 | 0 23 | 22 23 | 1 5 | 14 22 | 8 35 | 23 4 | 22 58 | 3 22 | 17 32 | 4 39 |
| S 11 | 17 36 | 4 12 | 4 22 | 24 46 | 2 34 | 21 21 | 0 18 | 8 15 | 0 47 | 19 51 | 0 58 | 1 8 | 2 10 | 23 26 | 0 23 | 22 23 | 1 5 | 14 21 | 8 35 | 23 4 | 22 58 | 3 19 | 17 33 | 4 39 |
| S 12 | 17 52 | 1s49 | 4 54 | 24 48 | 2 30 | 21 37 | 0 21 | 8 30 | 0 46 | 19 50 | 0 58 | 1 6 | 2 10 | 23 26 | 0 23 | 22 23 | 1 5 | 14 21 | 8 35 | 23 4 | 22 58 | 3 16 | 17 34 | 4 39 |
| M13 | 18 8 | 7 47 | 5 7 | 24 48 | 2 25 | 21 53 | 0 23 | 8 45 | 0 46 | 19 49 | 0 58 | 1 4 | 2 10 | 23 26 | 0 23 | 22 23 | 1 5 | 14 21 | 8 35 | 23 5 | 22 59 | 3 13 | 17 35 | 4 39 |
| T 14 | 18 24 | 13 19 | 5 0 | 24 45 | 2 19 | 22 8 | 0 25 | 9 0 | 0 46 | 19 47 | 0 58 | 1 2 | 2 10 | 23 25 | 0 23 | 22 23 | 1 5 | 14 21 | 8 35 | 23 5 | 22 59 | 3 10 | 17 36 | 4 39 |
| W15 | 18 39 | 18 5 | 4 35 | 24 41 | 2 11 | 22 22 | 0 28 | 9 15 | 0 45 | 19 46 | 0 58 | 1 0 | 2 10 | 23 25 | 0 23 | 22 23 | 1 5 | 14 21 | 8 35 | 23 6 | 22 59 | 3 7 | 17 37 | 4 39 |
| T 16 | 18 54 | 21 44 | 3 53 | 24 34 | 2 2 | 22 35 | 0 30 | 9 30 | 0 45 | 19 44 | 0 58 | 0 58 | 2 11 | 23 25 | 0 23 | 22 24 | 1 5 | 14 21 | 8 35 | 23 7 | 23 0 | 3 4 | 17 38 | 4 39 |
| F 17 | 19 9 | 24 2 | 2 58 | 24 25 | 1 52 | 22 48 | 0 33 | 9 44 | 0 45 | 19 43 | 0 58 | 0 56 | 2 11 | 23 25 | 0 23 | 22 24 | 1 5 | 14 21 | 8 35 | 23 7 | 23 0 | 3 1 | 17 39 | 4 39 |
| S 18 | 19 23 | 24 51 | 1 53 | 24 13 | 1 40 | 23 0 | 0 35 | 9 59 | 0 44 | 19 41 | 0 58 | 0 54 | 2 11 | 23 24 | 0 23 | 22 24 | 1 5 | 14 21 | 8 35 | 23 7 | 23 0 | 2 58 | 17 39 | 4 39 |
| S 19 | 19 37 | 24 13 | 0 45 | 23 59 | 1 27 | 23 12 | 0 38 | 10 13 | 0 44 | 19 40 | 0 58 | 0 52 | 2 11 | 23 24 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 8 | 23 0 | 2 55 | 17 40 | 4 39 |
| M20 | 19 51 | 22 18 | 0n25 | 23 42 | 1 12 | 23 22 | 0 40 | 10 28 | 0 43 | 19 38 | 0 58 | 0 50 | 2 11 | 23 24 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 8 | 23 1 | 2 52 | 17 41 | 4 39 |
| T 21 | 20 4 | 19 21 | 1 31 | 23 21 | 0 56 | 23 32 | 0 42 | 10 42 | 0 43 | 19 37 | 0 57 | 0 48 | 2 12 | 23 24 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 8 | 23 1 | 2 49 | 17 42 | 4 39 |
| W22 | 20 17 | 15 36 | 2 32 | 22 58 | 0 38 | 23 42 | 0 45 | 10 57 | 0 42 | 19 35 | 0 57 | 0 46 | 2 12 | 23 23 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 7 | 23 1 | 2 47 | 17 43 | 4 39 |
| T 23 | 20 30 | 11 17 | 3 26 | 22 33 | 0 20 | 23 50 | 0 47 | 11 11 | 0 42 | 19 34 | 0 57 | 0 44 | 2 12 | 23 23 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 7 | 23 1 | 2 44 | 17 44 | 4 39 |
| F 24 | 20 42 | 6 35 | 4 9 | 22 4 | 0n 0 | 23 58 | 0 49 | 11 25 | 0 42 | 19 32 | 0 57 | 0 43 | 2 12 | 23 23 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 7 | 23 2 | 2 41 | 17 44 | 4 39 |
| S 25 | 20 54 | 1 41 | 4 42 | 21 34 | 0 21 | 24 6 | 0 52 | 11 39 | 0 41 | 19 30 | 0 57 | 0 41 | 2 12 | 23 23 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 7 | 23 2 | 2 38 | 17 45 | 4 40 |
| S 26 | 21 5 | 3n18 | 5 3 | 21 1 | 0 41 | 24 12 | 0 54 | 11 53 | 0 41 | 19 29 | 0 57 | 0 39 | 2 13 | 23 22 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 7 | 23 2 | 2 35 | 17 46 | 4 40 |
| M27 | 21 16 | 8 12 | 5 11 | 20 28 | 1 1 | 24 18 | 0 56 | 12 7 | 0 40 | 19 27 | 0 57 | 0 38 | 2 13 | 23 22 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 8 | 23 2 | 2 32 | 17 47 | 4 40 |
| T 28 | 21 27 | 12 52 | 5 6 | 19 55 | 1 20 | 24 23 | 0 58 | 12 21 | 0 40 | 19 26 | 0 57 | 0 36 | 2 13 | 23 22 | 0 23 | 22 24 | 1 5 | 14 20 | 8 35 | 23 8 | 23 3 | 2 29 | 17 47 | 4 40 |
| W29 | 21 37 | 17 6 | 4 45 | 19 23 | 1 38 | 24 27 | 1 0 | 12 35 | 0 39 | 19 24 | 0 56 | 0 34 | 2 13 | 23 22 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 9 | 23 3 | 2 26 | 17 48 | 4 40 |
| T 30 | 21s47 | 20n40 | 4n11 | 18s52 | 1n55 | 24s31 | 1s 2 | 12s49 | 0n39 | 19n23 | 0s56 | 0n33 | 2n14 | 23s21 | 0s23 | 22s24 | 1n 5 | 14n19 | 8s35 | 23s 9 | 23s 3 | 2s23 | 17s49 | 4n40 |

Julian Day Number = 2326206.5, Delta T = 38.56 sec
Ecliptic obliquity = 23°29'04, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'01, Lahiri = 19°04'02Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1656
# geocentric

## DECEMBER 1656 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 41 54 | 9♐35'40 | 29♉ 2 | 1°R33 | 29♐24 | 6♏17 | 0°R23 | 3♎50 | 11♑40 | 29♐14 | 17°R15 | 9°R20 | 10♑38 | 13♓20 | 13♐30 | F 1 |
| S 2 | 4 45 51 | 10°36'36 | 12♊18 | 0♐31 | 0♑39 | 6°57 | 0♊15 | 3°55 | 11°43 | 29°16 | 17♊14 | 9♑16 | 10°35 | 13°27 | 13°37 | S 2 |
| S 3 | 4 49 47 | 11°37'33 | 25°49 | 29♏40 | 1°54 | 7°37 | 0° 7 | 3°59 | 11°46 | 29°18 | 17°13 | 9°14 | 10°31 | 13°33 | 13°44 | S 3 |
| M 4 | 4 53 44 | 12°38'31 | 9♋32 | 28°59 | 3° 9 | 8°17 | 29♉59 | 4° 3 | 11°50 | 29°20 | 17°12 | 9°D14 | 10°28 | 13°40 | 13°51 | M 4 |
| T 5 | 4 57 41 | 13°39'30 | 23°26 | 28°29 | 4°24 | 8°57 | 29°52 | 4° 7 | 11°53 | 29°22 | 17°11 | 9°14 | 10°25 | 13°47 | 13°58 | T 5 |
| W 6 | 5 1 37 | 14°40'30 | 7♌27 | 28°11 | 5°38 | 9°37 | 29°44 | 4°11 | 11°56 | 29°25 | 17° 9 | 9°16 | 10°22 | 13°54 | 14° 6 | W 6 |
| T 7 | 5 5 34 | 15°41'31 | 21°33 | 28°D 4 | 6°53 | 10°17 | 29°36 | 4°15 | 11°59 | 29°27 | 17° 8 | 9°17 | 10°19 | 14° 0 | 14°13 | T 7 |
| F 8 | 5 9 30 | 16°42'33 | 5♍42 | 28° 7 | 8° 8 | 10°57 | 29°29 | 4°19 | 12° 3 | 29°29 | 17° 7 | 9°18 | 10°16 | 14° 7 | 14°20 | F 8 |
| S 9 | 5 13 27 | 17°43'36 | 19°52 | 28°20 | 9°23 | 11°37 | 29°21 | 4°22 | 12° 6 | 29°31 | 17° 6 | 9°R19 | 10°12 | 14°14 | 14°27 | S 9 |
| S 10 | 5 17 23 | 18°44'40 | 4♎ 2 | 28°41 | 10°38 | 12°17 | 29°14 | 4°26 | 12° 9 | 29°33 | 17° 5 | 9°18 | 10° 9 | 14°20 | 14°34 | S 10 |
| M11 | 5 21 20 | 19°45'45 | 18° 9 | 29°10 | 11°53 | 12°57 | 29° 7 | 4°30 | 12°13 | 29°36 | 17° 4 | 9°16 | 10° 6 | 14°27 | 14°41 | M11 |
| T 12 | 5 25 16 | 20°46'52 | 2♏10 | 29°47 | 13° 8 | 13°38 | 29° 0 | 4°33 | 12°16 | 29°38 | 17° 2 | 9°14 | 10° 3 | 14°34 | 14°48 | T 12 |
| W13 | 5 29 13 | 21°47'59 | 16° 4 | 0♐29 | 14°23 | 14°18 | 28°53 | 4°37 | 12°20 | 29°40 | 17° 1 | 9°11 | 10° 0 | 14°41 | 14°55 | W13 |
| T 14 | 5 33 10 | 22°49'06 | 29°47 | 1°18 | 15°38 | 14°58 | 28°46 | 4°40 | 12°23 | 29°42 | 17° 0 | 9° 9 | 9°57 | 14°47 | 15° 2 | T 14 |
| F 15 | 5 37 6 | 23°50'15 | 13♐16 | 2°11 | 16°52 | 15°38 | 28°39 | 4°43 | 12°26 | 29°45 | 16°59 | 9° 7 | 9°53 | 14°54 | 15° 9 | F 15 |
| S 16 | 5 41 3 | 24°51'24 | 26°30 | 3° 8 | 18° 7 | 16°18 | 28°33 | 4°46 | 12°30 | 29°47 | 16°58 | 9° 6 | 9°50 | 15° 1 | 15°16 | S 16 |
| S 17 | 5 44 59 | 25°52'33 | 9♑27 | 4°10 | 19°22 | 16°59 | 28°26 | 4°49 | 12°33 | 29°49 | 16°57 | 9°D 5 | 9°47 | 15° 7 | 15°23 | S 17 |
| M18 | 5 48 56 | 26°53'43 | 22° 8 | 5°15 | 20°37 | 17°39 | 28°20 | 4°52 | 12°37 | 29°51 | 16°55 | 9° 6 | 9°44 | 15°14 | 15°30 | M18 |
| T 19 | 5 52 52 | 27°54'53 | 4♒33 | 6°22 | 21°52 | 18°19 | 28°14 | 4°55 | 12°40 | 29°54 | 16°54 | 9° 7 | 9°41 | 15°21 | 15°36 | T 19 |
| W20 | 5 56 49 | 28°56'03 | 16°45 | 7°33 | 23° 6 | 18°59 | 28° 8 | 4°57 | 12°44 | 29°56 | 16°53 | 9° 8 | 9°37 | 15°28 | 15°43 | W20 |
| T 21 | 6 0 46 | 29°57'14 | 28°46 | 8°45 | 24°21 | 19°40 | 28° 2 | 5° 0 | 12°47 | 29°58 | 16°52 | 9° 9 | 9°34 | 15°34 | 15°50 | T 21 |
| F 22 | 6 4 42 | 0♑58'24 | 10♓40 | 10° 0 | 25°36 | 20°20 | 27°56 | 5° 2 | 12°51 | 0♑ 1 | 16°51 | 9°10 | 9°31 | 15°41 | 15°57 | F 22 |
| S 23 | 6 8 39 | 1°59'34 | 22°31 | 11°16 | 26°51 | 21° 0 | 27°50 | 5° 5 | 12°54 | 0° 3 | 16°50 | 9°10 | 9°28 | 15°48 | 16° 4 | S 23 |
| S 24 | 6 12 35 | 3° 0'44 | 4♈25 | 12°34 | 28° 5 | 21°41 | 27°45 | 5° 7 | 12°58 | 0° 5 | 16°49 | 9°R10 | 9°25 | 15°54 | 16°11 | S 24 |
| M25 | 6 16 32 | 4° 1'54 | 16°25 | 13°54 | 29°20 | 22°21 | 27°40 | 5° 9 | 13° 1 | 0° 7 | 16°48 | 9°10 | 9°22 | 16° 1 | 16°18 | M25 |
| T 26 | 6 20 28 | 5° 3'04 | 28°37 | 15°15 | 0♒35 | 23° 1 | 27°35 | 5°11 | 13° 5 | 0°10 | 16°46 | 9°10 | 9°18 | 16° 8 | 16°24 | T 26 |
| W27 | 6 24 25 | 6° 4'14 | 11♉ 4 | 16°37 | 1°49 | 23°42 | 27°30 | 5°13 | 13° 8 | 0°12 | 16°45 | 9° 9 | 9°15 | 16°15 | 16°31 | W27 |
| T 28 | 6 28 21 | 7° 5'24 | 23°51 | 18° 0 | 3° 4 | 24°22 | 27°25 | 5°15 | 13°12 | 0°14 | 16°44 | 9° 9 | 9°12 | 16°21 | 16°38 | T 28 |
| F 29 | 6 32 18 | 8° 6'33 | 6♊59 | 19°23 | 4°19 | 25° 3 | 27°21 | 5°17 | 13°15 | 0°16 | 16°43 | 9° 9 | 9° 9 | 16°28 | 16°45 | F 29 |
| S 30 | 6 36 15 | 9° 7'42 | 20°29 | 20°48 | 5°33 | 25°43 | 27°16 | 5°19 | 13°19 | 0°19 | 16°42 | 9°D 9 | 9° 6 | 16°35 | 16°51 | S 30 |
| S 31 | 6 40 11 | 10♑ 8'51 | 4♋20 | 22♐14 | 6♒48 | 26♏24 | 27♉12 | 5♎20 | 13♑23 | 0♑21 | 16♊41 | 9°R 9 | 9♑ 3 | 16♓41 | 16♐58 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s56 | 23n16 | 3n22 | 18s24 | 2n 9 | 24s33 | 1s 4 | 13s 2 | 0n39 | 19n21 | 0s56 | 0n31 | 2n14 | 23s21 | 0s23 | 22s24 | 1n 5 | 14n19 | 8s35 | 23s 9 | 23s 3 | 2s20 | 17s50 | 4n40 |
| S 2 | 22 5 | 24 40 | 2 22 | 18 0 | 2 21 | 24 35 | 1 6 | 13 16 | 0 38 | 19 20 | 0 56 | 0 30 | 2 14 | 23 21 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 10 | 23 4 | 2 17 | 17 50 | 4 40 |
| S 3 | 22 13 | 24 38 | 1 13 | 17 40 | 2 31 | 24 37 | 1 8 | 13 29 | 0 38 | 19 18 | 0 56 | 0 28 | 2 14 | 23 20 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 10 | 23 4 | 2 14 | 17 51 | 4 40 |
| M 4 | 22 21 | 23 7 | 0s 2 | 17 24 | 2 38 | 24 37 | 1 10 | 13 43 | 0 37 | 19 17 | 0 56 | 0 27 | 2 15 | 23 20 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 10 | 23 4 | 2 11 | 17 52 | 4 41 |
| T 5 | 22 29 | 20 11 | 1 17 | 17 12 | 2 43 | 24 37 | 1 12 | 13 56 | 0 37 | 19 15 | 0 55 | 0 25 | 2 15 | 23 20 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 10 | 23 4 | 2 8 | 17 52 | 4 41 |
| W 6 | 22 36 | 16 3 | 2 29 | 17 5 | 2 47 | 24 36 | 1 14 | 14 9 | 0 36 | 19 14 | 0 55 | 0 24 | 2 15 | 23 20 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 10 | 23 5 | 2 6 | 17 53 | 4 41 |
| T 7 | 22 43 | 11 0 | 3 32 | 17 2 | 2 48 | 24 34 | 1 16 | 14 22 | 0 36 | 19 13 | 0 55 | 0 23 | 2 15 | 23 19 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 10 | 23 5 | 2 3 | 17 54 | 4 41 |
| F 8 | 22 49 | 5 22 | 4 23 | 17 3 | 2 48 | 24 31 | 1 18 | 14 35 | 0 35 | 19 11 | 0 55 | 0 21 | 2 16 | 23 19 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 9 | 23 5 | 2 0 | 17 54 | 4 41 |
| S 9 | 22 55 | 0s32 | 4 57 | 17 7 | 2 47 | 24 28 | 1 19 | 14 48 | 0 35 | 19 10 | 0 55 | 0 20 | 2 16 | 23 19 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 9 | 23 5 | 1 57 | 17 55 | 4 41 |
| S 10 | 23 0 | 6 24 | 5 14 | 17 14 | 2 44 | 24 24 | 1 21 | 15 1 | 0 34 | 19 8 | 0 54 | 0 19 | 2 16 | 23 18 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 9 | 23 6 | 1 54 | 17 56 | 4 42 |
| M11 | 23 5 | 11 55 | 5 11 | 17 24 | 2 40 | 24 19 | 1 23 | 15 13 | 0 34 | 19 7 | 0 54 | 0 18 | 2 16 | 23 18 | 0 23 | 22 24 | 1 5 | 14 19 | 8 35 | 23 10 | 23 6 | 1 51 | 17 56 | 4 42 |
| T 12 | 23 10 | 16 47 | 4 50 | 17 36 | 2 36 | 24 14 | 1 24 | 15 26 | 0 33 | 19 6 | 0 54 | 0 17 | 2 17 | 23 18 | 0 23 | 22 24 | 1 5 | 14 18 | 8 35 | 23 10 | 23 6 | 1 48 | 17 57 | 4 42 |
| W13 | 23 14 | 20 42 | 4 12 | 17 50 | 2 31 | 24 7 | 1 26 | 15 38 | 0 33 | 19 4 | 0 54 | 0 16 | 2 17 | 23 17 | 0 23 | 22 24 | 1 5 | 14 18 | 8 35 | 23 10 | 23 6 | 1 45 | 17 57 | 4 42 |
| T 14 | 23 17 | 23 24 | 3 20 | 18 6 | 2 25 | 24 0 | 1 27 | 15 51 | 0 32 | 19 3 | 0 54 | 0 15 | 2 17 | 23 17 | 0 23 | 22 24 | 1 5 | 14 18 | 8 35 | 23 10 | 23 7 | 1 42 | 17 58 | 4 42 |
| F 15 | 23 20 | 24 43 | 2 18 | 18 23 | 2 18 | 23 53 | 1 28 | 16 3 | 0 32 | 19 2 | 0 53 | 0 14 | 2 17 | 23 17 | 0 23 | 22 24 | 1 5 | 14 18 | 8 35 | 23 10 | 23 7 | 1 39 | 17 58 | 4 42 |
| S 16 | 23 23 | 24 35 | 1 9 | 18 41 | 2 11 | 23 44 | 1 30 | 16 15 | 0 31 | 19 0 | 0 53 | 0 13 | 2 18 | 23 16 | 0 23 | 22 24 | 1 5 | 14 18 | 8 35 | 23 10 | 23 7 | 1 36 | 17 59 | 4 43 |
| S 17 | 23 25 | 23 7 | 0n 2 | 18 59 | 2 4 | 23 35 | 1 31 | 16 27 | 0 31 | 18 59 | 0 53 | 0 12 | 2 18 | 23 16 | 0 23 | 22 24 | 1 5 | 14 18 | 8 35 | 23 10 | 23 7 | 1 33 | 18 0 | 4 43 |
| M18 | 23 27 | 20 29 | 1 12 | 19 19 | 1 56 | 23 25 | 1 32 | 16 39 | 0 30 | 18 58 | 0 53 | 0 11 | 2 18 | 23 16 | 0 23 | 22 24 | 1 5 | 14 18 | 8 34 | 23 10 | 23 8 | 1 30 | 18 0 | 4 43 |
| T 19 | 23 28 | 16 57 | 2 16 | 19 38 | 1 48 | 23 14 | 1 33 | 16 50 | 0 30 | 18 57 | 0 53 | 0 10 | 2 19 | 23 16 | 0 23 | 22 25 | 1 5 | 14 18 | 8 34 | 23 10 | 23 8 | 1 28 | 18 1 | 4 43 |
| W20 | 23 29 | 12 46 | 3 14 | 19 57 | 1 40 | 23 3 | 1 34 | 17 2 | 0 29 | 18 56 | 0 52 | 0 9 | 2 19 | 23 15 | 0 23 | 22 25 | 1 5 | 14 18 | 8 34 | 23 10 | 23 8 | 1 25 | 18 1 | 4 44 |
| T 21 | 23 29 | 8 9 | 4 2 | 20 17 | 1 32 | 22 51 | 1 35 | 17 14 | 0 28 | 18 55 | 0 52 | 0 8 | 2 19 | 23 15 | 0 23 | 22 25 | 1 5 | 14 18 | 8 34 | 23 10 | 23 8 | 1 22 | 18 1 | 4 44 |
| F 22 | 23 29 | 3 17 | 4 39 | 20 36 | 1 24 | 22 38 | 1 36 | 17 25 | 0 28 | 18 54 | 0 52 | 0 8 | 2 19 | 23 15 | 0 23 | 22 25 | 1 5 | 14 18 | 8 34 | 23 10 | 23 9 | 1 19 | 18 2 | 4 44 |
| S 23 | 23 28 | 1n41 | 5 4 | 20 55 | 1 16 | 22 25 | 1 37 | 17 36 | 0 27 | 18 53 | 0 52 | 0 7 | 2 20 | 23 14 | 0 23 | 22 25 | 1 5 | 14 18 | 8 34 | 23 10 | 23 9 | 1 16 | 18 2 | 4 44 |
| S 24 | 23 27 | 6 35 | 5 16 | 21 13 | 1 8 | 22 11 | 1 38 | 17 47 | 0 27 | 18 52 | 0 51 | 0 6 | 2 20 | 23 14 | 0 23 | 22 25 | 1 5 | 14 18 | 8 34 | 23 10 | 23 9 | 1 13 | 18 3 | 4 45 |
| M25 | 23 25 | 11 18 | 5 15 | 21 31 | 1 0 | 21 56 | 1 39 | 17 58 | 0 26 | 18 51 | 0 51 | 0 6 | 2 20 | 23 14 | 0 23 | 22 25 | 1 4 | 14 18 | 8 34 | 23 10 | 23 9 | 1 10 | 18 3 | 4 45 |
| T 26 | 23 23 | 15 39 | 4 59 | 21 49 | 0 51 | 21 41 | 1 39 | 18 9 | 0 26 | 18 50 | 0 51 | 0 5 | 2 21 | 23 13 | 0 23 | 22 25 | 1 4 | 14 18 | 8 34 | 23 10 | 23 9 | 1 7 | 18 4 | 4 45 |
| W27 | 23 21 | 19 26 | 4 29 | 22 5 | 0 43 | 21 25 | 1 40 | 18 20 | 0 25 | 18 49 | 0 51 | 0 5 | 2 21 | 23 13 | 0 23 | 22 25 | 1 4 | 14 18 | 8 34 | 23 10 | 23 10 | 1 4 | 18 4 | 4 45 |
| T 28 | 23 18 | 22 25 | 3 46 | 22 21 | 0 35 | 21 8 | 1 40 | 18 30 | 0 24 | 18 48 | 0 50 | 0 4 | 2 21 | 23 12 | 0 23 | 22 25 | 1 4 | 14 18 | 8 34 | 23 10 | 23 10 | 1 1 | 18 4 | 4 46 |
| F 29 | 23 14 | 24 18 | 2 49 | 22 36 | 0 27 | 20 51 | 1 41 | 18 41 | 0 24 | 18 47 | 0 50 | 0 4 | 2 21 | 23 12 | 0 23 | 22 25 | 1 4 | 14 18 | 8 33 | 23 10 | 23 10 | 0 58 | 18 5 | 4 46 |
| S 30 | 23 10 | 24 50 | 1 42 | 22 51 | 0 19 | 20 33 | 1 41 | 18 51 | 0 23 | 18 47 | 0 50 | 0 3 | 2 22 | 23 12 | 0 23 | 22 25 | 1 4 | 14 18 | 8 33 | 23 10 | 23 10 | 0 56 | 18 5 | 4 46 |
| S 31 | 23s 6 | 23n51 | 0n27 | 23s 4 | 0n12 | 20s15 | 1s42 | 19s 1 | 0n23 | 18n46 | 0s50 | 0n 3 | 2n22 | 23s11 | 0s23 | 22s25 | 1n 4 | 14n18 | 8s33 | 23s10 | 23s11 | 0s53 | 18s 5 | 4n47 |

Julian Day Number = 2326236.5, Delta T = 38.50 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'05, Lahiri = 19°04'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## JANUARY 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 44 8 | 11♑10'00 | 18♋29 | 23♐40 | 8♒ 2 | 27♏ 4 | 27°R 8 | 5♎22 | 13♑26 | 0♑23 | 16°R40 | 9°R 9 | 8♑59 | 16♓48 | 17♐ 4 | M 1 |
| T 2 | 6 48 4 | 12°11'09 | 2♌52 | 25° 7 | 9°17 | 27°45 | 27♉ 4 | 5°23 | 13°30 | 0°25 | 16♊39 | 9♑ 9 | 8°56 | 16°55 | 17°11 | T 2 |
| W 3 | 6 52 1 | 13°12'18 | 17°23 | 26°34 | 10°31 | 28°26 | 27° 1 | 5°24 | 13°33 | 0°28 | 16°38 | 9° 8 | 8°53 | 17° 2 | 17°18 | W 3 |
| T 4 | 6 55 57 | 14°13'27 | 1♍56 | 28° 2 | 11°46 | 29° 6 | 26°57 | 5°25 | 13°37 | 0°30 | 16°37 | 9° 8 | 8°50 | 17° 8 | 17°24 | T 4 |
| F 5 | 6 59 54 | 15°14'35 | 16°27 | 29°31 | 13° 0 | 29°47 | 26°54 | 5°26 | 13°40 | 0°32 | 16°36 | 9° 7 | 8°47 | 17°15 | 17°31 | F 5 |
| S 6 | 7 3 50 | 16°15'43 | 0♎49 | 1♑ 1 | 14°14 | 0♐27 | 26°51 | 5°27 | 13°44 | 0°34 | 16°35 | 9° 7 | 8°43 | 17°22 | 17°37 | S 6 |
| S 7 | 7 7 47 | 17°16'52 | 15° 1 | 2°30 | 15°29 | 1° 8 | 26°48 | 5°28 | 13°48 | 0°37 | 16°34 | 9°D 6 | 8°40 | 17°28 | 17°43 | S 7 |
| M 8 | 7 11 44 | 18°18'00 | 28°59 | 4° 1 | 16°43 | 1°49 | 26°46 | 5°29 | 13°51 | 0°39 | 16°33 | 9° 6 | 8°37 | 17°35 | 17°50 | M 8 |
| T 9 | 7 15 40 | 19°19'09 | 12♏43 | 5°32 | 17°57 | 2°29 | 26°43 | 5°29 | 13°55 | 0°41 | 16°32 | 9° 7 | 8°34 | 17°42 | 17°56 | T 9 |
| W10 | 7 19 37 | 20°20'17 | 26°13 | 7° 3 | 19°12 | 3°10 | 26°41 | 5°30 | 13°58 | 0°43 | 16°31 | 9° 8 | 8°31 | 17°49 | 18° 2 | W10 |
| T 11 | 7 23 33 | 21°21'25 | 9♐29 | 8°35 | 20°26 | 3°51 | 26°39 | 5°30 | 14° 2 | 0°45 | 16°30 | 9° 9 | 8°28 | 17°55 | 18° 9 | T 11 |
| F 12 | 7 27 30 | 22°22'33 | 22°32 | 10° 8 | 21°40 | 4°32 | 26°37 | 5°30 | 14° 5 | 0°47 | 16°29 | 9°10 | 8°24 | 18° 2 | 18°15 | F 12 |
| S 13 | 7 31 26 | 23°23'40 | 5♑22 | 11°41 | 22°54 | 5°13 | 26°35 | 5°30 | 14° 9 | 0°50 | 16°28 | 9°R11 | 8°21 | 18° 9 | 18°21 | S 13 |
| S 14 | 7 35 23 | 24°24'47 | 18° 0 | 13°15 | 24° 8 | 5°53 | 26°34 | 5°R30 | 14°12 | 0°52 | 16°27 | 9°10 | 8°18 | 18°15 | 18°27 | S 14 |
| M15 | 7 39 19 | 25°25'53 | 0♒27 | 14°49 | 25°23 | 6°34 | 26°33 | 5°30 | 14°16 | 0°54 | 16°26 | 9° 9 | 8°15 | 18°22 | 18°33 | M15 |
| T 16 | 7 43 16 | 26°26'58 | 12°42 | 16°23 | 26°37 | 7°15 | 26°32 | 5°30 | 14°19 | 0°56 | 16°26 | 9° 7 | 8°12 | 18°29 | 18°39 | T 16 |
| W17 | 7 47 13 | 27°28'02 | 24°49 | 17°59 | 27°51 | 7°56 | 26°31 | 5°30 | 14°23 | 0°58 | 16°25 | 9° 5 | 8° 9 | 18°36 | 18°45 | W17 |
| T 18 | 7 51 9 | 28°29'06 | 6♓47 | 19°35 | 29° 5 | 8°37 | 26°31 | 5°29 | 14°26 | 1° 0 | 16°24 | 9° 1 | 8° 5 | 18°42 | 18°51 | T 18 |
| F 19 | 7 55 6 | 29°30'09 | 18°40 | 21°11 | 0♓19 | 9°18 | 26°30 | 5°29 | 14°30 | 1° 2 | 16°23 | 8°58 | 8° 2 | 18°49 | 18°57 | F 19 |
| S 20 | 7 59 2 | 0♒31'10 | 0♈31 | 22°48 | 1°33 | 9°59 | 26°D30 | 5°28 | 14°33 | 1° 4 | 16°22 | 8°55 | 7°59 | 18°56 | 19° 3 | S 20 |
| S 21 | 8 2 59 | 1°32'11 | 12°24 | 24°26 | 2°46 | 10°40 | 26°30 | 5°28 | 14°37 | 1° 6 | 16°21 | 8°52 | 7°56 | 19° 2 | 19° 8 | S 21 |
| M22 | 8 6 55 | 2°33'10 | 24°22 | 26° 4 | 4° 0 | 11°21 | 26°30 | 5°27 | 14°40 | 1° 8 | 16°21 | 8°51 | 7°53 | 19° 9 | 19°14 | M22 |
| T 23 | 8 10 52 | 3°34'08 | 6♉30 | 27°43 | 5°14 | 12° 1 | 26°31 | 5°26 | 14°44 | 1°10 | 16°20 | 8°D51 | 7°49 | 19°16 | 19°20 | T 23 |
| W24 | 8 14 48 | 4°35'05 | 18°53 | 29°23 | 6°28 | 12°42 | 26°31 | 5°25 | 14°47 | 1°12 | 16°19 | 8°52 | 7°46 | 19°23 | 19°25 | W24 |
| T 25 | 8 18 45 | 5°36'01 | 1♊35 | 1♒ 3 | 7°41 | 13°23 | 26°32 | 5°24 | 14°51 | 1°14 | 16°18 | 8°53 | 7°43 | 19°29 | 19°31 | T 25 |
| F 26 | 8 22 42 | 6°36'55 | 14°41 | 2°44 | 8°55 | 14° 5 | 26°33 | 5°22 | 14°54 | 1°16 | 16°18 | 8°55 | 7°40 | 19°36 | 19°36 | F 26 |
| S 27 | 8 26 38 | 7°37'49 | 28°12 | 4°26 | 10° 9 | 14°46 | 26°35 | 5°21 | 14°57 | 1°18 | 16°17 | 8°56 | 7°37 | 19°43 | 19°42 | S 27 |
| S 28 | 8 30 35 | 8°38'41 | 12♋10 | 6° 8 | 11°22 | 15°27 | 26°36 | 5°20 | 15° 1 | 1°20 | 16°16 | 8°R56 | 7°34 | 19°49 | 19°47 | S 28 |
| M29 | 8 34 31 | 9°39'31 | 26°34 | 7°52 | 12°35 | 16° 8 | 26°38 | 5°18 | 15° 4 | 1°22 | 16°16 | 8°55 | 7°30 | 19°56 | 19°52 | M29 |
| T 30 | 8 38 28 | 10°40'21 | 11♌18 | 9°36 | 13°49 | 16°49 | 26°40 | 5°16 | 15° 7 | 1°24 | 16°15 | 8°53 | 7°27 | 20° 3 | 19°58 | T 30 |
| W31 | 8 42 24 | 11♒41'09 | 26♌15 | 11♒20 | 15♓ 2 | 17♐30 | 26♉42 | 5♎15 | 15♑11 | 1♑26 | 16♊14 | 8♑49 | 7♑24 | 20♓10 | 20♐ 3 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23s 1 | 21n21 | 0s52 | 23s16 | 0n 4 | 19s56 | 1s42 | 19s11 | 0n22 | 18n45 | 0s49 | 0n 3 | 2n22 | 23s11 | 0s23 | 22s25 | 1n 4 | 14n18 | 8s33 | 23s10 | 23s11 | 0s50 | 18s 6 | 4n47 |
| T 2 | 22 55 | 17 29 | 2 8 | 23 27 | 0s 4 | 19 36 | 1 42 | 19 21 | 0 21 | 18 45 | 0 49 | 0 2 | 2 23 | 23 11 | 0 23 | 22 25 | 1 4 | 14 18 | 8 33 | 23 10 | 23 11 | 0 47 | 18 6 | 4 47 |
| W 3 | 22 50 | 12 32 | 3 17 | 23 37 | 0 11 | 19 16 | 1 42 | 19 31 | 0 21 | 18 44 | 0 49 | 0 2 | 2 23 | 23 10 | 0 23 | 22 25 | 1 4 | 14 18 | 8 33 | 23 10 | 23 11 | 0 44 | 18 6 | 4 48 |
| T 4 | 22 43 | 6 52 | 4 13 | 23 46 | 0 18 | 18 56 | 1 42 | 19 40 | 0 20 | 18 43 | 0 49 | 0 2 | 2 23 | 23 10 | 0 23 | 22 25 | 1 4 | 14 18 | 8 33 | 23 10 | 23 11 | 0 41 | 18 6 | 4 48 |
| F 5 | 22 37 | 0 52 | 4 53 | 23 54 | 0 25 | 18 34 | 1 42 | 19 49 | 0 20 | 18 43 | 0 48 | 0 2 | 2 23 | 23 10 | 0 23 | 22 25 | 1 4 | 14 18 | 8 33 | 23 10 | 23 12 | 0 38 | 18 7 | 4 48 |
| S 6 | 22 30 | 5s 7 | 5 14 | 24 1 | 0 32 | 18 13 | 1 42 | 19 59 | 0 19 | 18 42 | 0 48 | 0 2 | 2 24 | 23 9 | 0 23 | 22 25 | 1 4 | 14 18 | 8 32 | 23 10 | 23 12 | 0 35 | 18 7 | 4 49 |
| S 7 | 22 22 | 10 46 | 5 15 | 24 7 | 0 39 | 17 51 | 1 42 | 20 8 | 0 18 | 18 42 | 0 48 | 0 2 | 2 24 | 23 9 | 0 23 | 22 25 | 1 4 | 14 18 | 8 32 | 23 10 | 23 12 | 0 32 | 18 7 | 4 49 |
| M 8 | 22 14 | 15 46 | 4 58 | 24 11 | 0 46 | 17 28 | 1 41 | 20 17 | 0 18 | 18 42 | 0 48 | 0 2 | 2 24 | 23 9 | 0 23 | 22 24 | 1 4 | 14 19 | 8 32 | 23 10 | 23 12 | 0 29 | 18 7 | 4 49 |
| T 9 | 22 5 | 19 52 | 4 24 | 24 14 | 0 52 | 17 5 | 1 41 | 20 25 | 0 17 | 18 41 | 0 47 | 0 2 | 2 25 | 23 8 | 0 23 | 22 24 | 1 4 | 14 19 | 8 32 | 23 10 | 23 12 | 0 27 | 18 8 | 4 50 |
| W10 | 21 56 | 22 50 | 3 36 | 24 16 | 0 58 | 16 41 | 1 40 | 20 34 | 0 16 | 18 41 | 0 47 | 0 2 | 2 25 | 23 8 | 0 23 | 22 24 | 1 4 | 14 19 | 8 32 | 23 10 | 23 13 | 0 24 | 18 8 | 4 50 |
| T 11 | 21 47 | 24 30 | 2 37 | 24 16 | 1 4 | 16 17 | 1 40 | 20 42 | 0 16 | 18 41 | 0 47 | 0 2 | 2 25 | 23 7 | 0 23 | 22 24 | 1 4 | 14 19 | 8 32 | 23 10 | 23 13 | 0 21 | 18 8 | 4 50 |
| F 12 | 21 37 | 24 47 | 1 31 | 24 15 | 1 10 | 15 53 | 1 39 | 20 50 | 0 15 | 18 41 | 0 47 | 0 2 | 2 25 | 23 7 | 0 23 | 22 24 | 1 4 | 14 19 | 8 32 | 23 10 | 23 13 | 0 18 | 18 8 | 4 51 |
| S 13 | 21 27 | 23 44 | 0 21 | 24 13 | 1 15 | 15 28 | 1 39 | 20 59 | 0 14 | 18 41 | 0 46 | 0 2 | 2 26 | 23 7 | 0 23 | 22 24 | 1 4 | 14 19 | 8 31 | 23 10 | 23 13 | 0 15 | 18 8 | 4 51 |
| S 14 | 21 17 | 21 28 | 0n49 | 24 9 | 1 20 | 15 2 | 1 38 | 21 6 | 0 14 | 18 41 | 0 46 | 0 2 | 2 26 | 23 6 | 0 23 | 22 24 | 1 4 | 14 19 | 8 31 | 23 10 | 23 13 | 0 12 | 18 8 | 4 52 |
| M15 | 21 6 | 18 13 | 1 55 | 24 5 | 1 25 | 14 36 | 1 37 | 21 14 | 0 13 | 18 41 | 0 46 | 0 3 | 2 26 | 23 6 | 0 23 | 22 24 | 1 4 | 14 19 | 8 31 | 23 10 | 23 14 | 0 9 | 18 8 | 4 52 |
| T 16 | 20 54 | 14 14 | 2 55 | 23 58 | 1 30 | 14 10 | 1 36 | 21 22 | 0 12 | 18 41 | 0 46 | 0 3 | 2 27 | 23 6 | 0 23 | 22 24 | 1 5 | 14 19 | 8 31 | 23 10 | 23 14 | 0 6 | 18 8 | 4 52 |
| W17 | 20 42 | 9 44 | 3 46 | 23 50 | 1 35 | 13 44 | 1 35 | 21 29 | 0 11 | 18 41 | 0 45 | 0 3 | 2 27 | 23 5 | 0 23 | 22 24 | 1 5 | 14 19 | 8 31 | 23 10 | 23 14 | 0 3 | 18 9 | 4 53 |
| T 18 | 20 30 | 4 55 | 4 26 | 23 41 | 1 39 | 13 17 | 1 34 | 21 36 | 0 11 | 18 41 | 0 45 | 0 4 | 2 27 | 23 5 | 0 23 | 22 24 | 1 5 | 14 19 | 8 31 | 23 11 | 23 14 | 0 1 | 18 9 | 4 53 |
| F 19 | 20 18 | 0n 2 | 4 55 | 23 30 | 1 43 | 12 50 | 1 33 | 21 43 | 0 10 | 18 41 | 0 45 | 0 4 | 2 27 | 23 5 | 0 23 | 22 24 | 1 5 | 14 19 | 8 30 | 23 11 | 23 14 | 0n 2 | 18 9 | 4 54 |
| S 20 | 20 5 | 4 58 | 5 11 | 23 18 | 1 47 | 12 22 | 1 32 | 21 50 | 0 9 | 18 41 | 0 45 | 0 5 | 2 28 | 23 4 | 0 23 | 22 24 | 1 5 | 14 19 | 8 30 | 23 11 | 23 15 | 0 5 | 18 9 | 4 54 |
| S 21 | 19 51 | 9 43 | 5 14 | 23 5 | 1 50 | 11 54 | 1 30 | 21 57 | 0 9 | 18 41 | 0 44 | 0 5 | 2 28 | 23 4 | 0 23 | 22 24 | 1 5 | 14 20 | 8 30 | 23 11 | 23 15 | 0 8 | 18 9 | 4 55 |
| M22 | 19 38 | 14 9 | 5 3 | 22 49 | 1 53 | 11 26 | 1 29 | 22 3 | 0 8 | 18 42 | 0 44 | 0 6 | 2 28 | 23 3 | 0 23 | 22 24 | 1 5 | 14 20 | 8 30 | 23 11 | 23 15 | 0 11 | 18 9 | 4 55 |
| T 23 | 19 24 | 18 5 | 4 39 | 22 33 | 1 56 | 10 58 | 1 27 | 22 9 | 0 7 | 18 42 | 0 44 | 0 7 | 2 29 | 23 3 | 0 23 | 22 24 | 1 5 | 14 20 | 8 30 | 23 11 | 23 15 | 0 14 | 18 9 | 4 55 |
| W24 | 19 9 | 21 20 | 4 1 | 22 15 | 1 58 | 10 29 | 1 26 | 22 15 | 0 6 | 18 42 | 0 44 | 0 7 | 2 29 | 23 3 | 0 23 | 22 24 | 1 5 | 14 20 | 8 29 | 23 11 | 23 15 | 0 17 | 18 9 | 4 56 |
| T 25 | 18 54 | 23 38 | 3 11 | 21 55 | 2 0 | 10 0 | 1 24 | 22 21 | 0 6 | 18 43 | 0 43 | 0 8 | 2 29 | 23 2 | 0 23 | 22 24 | 1 5 | 14 20 | 8 29 | 23 11 | 23 16 | 0 20 | 18 9 | 4 56 |
| F 26 | 18 39 | 24 44 | 2 9 | 21 34 | 2 2 | 9 31 | 1 22 | 22 27 | 0 5 | 18 43 | 0 43 | 0 9 | 2 29 | 23 2 | 0 23 | 22 24 | 1 5 | 14 20 | 8 29 | 23 11 | 23 16 | 0 23 | 18 9 | 4 57 |
| S 27 | 18 24 | 24 27 | 0 59 | 21 11 | 2 3 | 9 1 | 1 21 | 22 33 | 0 4 | 18 44 | 0 43 | 0 10 | 2 30 | 23 2 | 0 23 | 22 24 | 1 5 | 14 20 | 8 29 | 23 11 | 23 16 | 0 25 | 18 9 | 4 57 |
| S 28 | 18 8 | 22 38 | 0s18 | 20 46 | 2 4 | 8 32 | 1 19 | 22 38 | 0 3 | 18 45 | 0 43 | 0 10 | 2 30 | 23 1 | 0 23 | 22 24 | 1 5 | 14 20 | 8 29 | 23 11 | 23 16 | 0 28 | 18 8 | 4 58 |
| M29 | 17 52 | 19 20 | 1 35 | 20 20 | 2 4 | 8 2 | 1 17 | 22 43 | 0 3 | 18 45 | 0 42 | 0 11 | 2 30 | 23 1 | 0 23 | 22 24 | 1 5 | 14 21 | 8 28 | 23 11 | 23 16 | 0 31 | 18 8 | 4 58 |
| T 30 | 17 36 | 14 44 | 2 48 | 19 53 | 2 5 | 7 32 | 1 15 | 22 48 | 0 2 | 18 46 | 0 42 | 0 12 | 2 30 | 23 1 | 0 23 | 22 24 | 1 5 | 14 21 | 8 28 | 23 11 | 23 16 | 0 34 | 18 8 | 4 59 |
| W31 | 17s19 | 9n11 | 3s50 | 19s24 | 2s 4 | 7s 1 | 1s13 | 22s53 | 0n 1 | 18n47 | 0s42 | 0n13 | 2n31 | 23s 0 | 0s23 | 22s24 | 1n 5 | 14n21 | 8s28 | 23s11 | 23s17 | 0n37 | 18s 8 | 4n59 |

Julian Day Number = 2326267.5, Delta T = 38.44 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'10, Lahiri = 19°04'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## FEBRUARY 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 46 21 | 12♒41'56 | 11♍17 | 13♒ 6 | 16♓15 | 18♐11 | 26♉44 | 5°R13 | 15♑14 | 1♑27 | 16°R14 | 8°R44 | 7♑21 | 20♓16 | 20♐ 8 | T 1 |
| F 2 | 8 50 17 | 13°42'41 | 26°15 | 14°52 | 17°29 | 18°52 | 26°46 | 5♎11 | 15°17 | 1°29 | 16♊13 | 8♑38 | 7°18 | 20°23 | 20°13 | F 2 |
| S 3 | 8 54 14 | 14°43'26 | 11♎ 0 | 16°38 | 18°42 | 19°33 | 26°49 | 5° 9 | 15°20 | 1°31 | 16°13 | 8°34 | 7°15 | 20°30 | 20°18 | S 3 |
| S 4 | 8 58 11 | 15°44'10 | 25°26 | 18°26 | 19°55 | 20°15 | 26°52 | 5° 7 | 15°24 | 1°33 | 16°12 | 8°30 | 7°11 | 20°36 | 20°23 | S 4 |
| M 5 | 9 2 7 | 16°44'53 | 9♏30 | 20°14 | 21° 8 | 20°56 | 26°55 | 5° 4 | 15°27 | 1°34 | 16°12 | 8°29 | 7° 8 | 20°43 | 20°28 | M 5 |
| T 6 | 9 6 4 | 17°45'35 | 23°11 | 22° 3 | 22°21 | 21°37 | 26°58 | 5° 2 | 15°30 | 1°36 | 16°11 | 8°D29 | 7° 5 | 20°50 | 20°33 | T 6 |
| W 7 | 9 10 0 | 18°46'15 | 6♐31 | 23°52 | 23°34 | 22°18 | 27° 2 | 5° 0 | 15°33 | 1°38 | 16°11 | 8°30 | 7° 2 | 20°57 | 20°37 | W 7 |
| T 8 | 9 13 57 | 19°46'55 | 19°31 | 25°42 | 24°47 | 23° 0 | 27° 5 | 4°57 | 15°36 | 1°40 | 16°10 | 8°31 | 6°59 | 21° 3 | 20°42 | T 8 |
| F 9 | 9 17 53 | 20°47'33 | 2♑15 | 27°32 | 25°59 | 23°41 | 27° 9 | 4°54 | 15°39 | 1°41 | 16°10 | 8°R32 | 6°55 | 21°10 | 20°46 | F 9 |
| S 10 | 9 21 50 | 21°48'10 | 14°46 | 29°23 | 27°12 | 24°22 | 27°13 | 4°52 | 15°42 | 1°43 | 16° 9 | 8°32 | 6°52 | 21°17 | 20°51 | S 10 |
| S 11 | 9 25 47 | 22°48'46 | 27° 6 | 1♓14 | 28°25 | 25° 4 | 27°17 | 4°49 | 15°45 | 1°44 | 16° 9 | 8°30 | 6°49 | 21°23 | 20°55 | S 11 |
| M12 | 9 29 43 | 23°49'20 | 9♒18 | 3° 5 | 29°37 | 25°45 | 27°22 | 4°46 | 15°48 | 1°46 | 16° 9 | 8°26 | 6°46 | 21°30 | 21° 0 | M12 |
| T 13 | 9 33 40 | 24°49'53 | 21°22 | 4°55 | 0♈50 | 26°26 | 27°26 | 4°43 | 15°51 | 1°48 | 16° 8 | 8°20 | 6°43 | 21°37 | 21° 4 | T 13 |
| W14 | 9 37 36 | 25°50'24 | 3♓21 | 6°45 | 2° 2 | 27° 8 | 27°31 | 4°40 | 15°54 | 1°49 | 16° 8 | 8°11 | 6°40 | 21°44 | 21° 8 | W14 |
| T 15 | 9 41 33 | 26°50'54 | 15°16 | 8°35 | 3°14 | 27°49 | 27°36 | 4°37 | 15°57 | 1°51 | 16° 8 | 8° 2 | 6°36 | 21°50 | 21°12 | T 15 |
| F 16 | 9 45 29 | 27°51'22 | 27° 8 | 10°23 | 4°27 | 28°31 | 27°41 | 4°34 | 16° 0 | 1°52 | 16° 7 | 7°52 | 6°33 | 21°57 | 21°16 | F 16 |
| S 17 | 9 49 26 | 28°51'48 | 8♈59 | 12°10 | 5°39 | 29°12 | 27°46 | 4°30 | 16° 3 | 1°54 | 16° 7 | 7°42 | 6°30 | 22° 4 | 21°20 | S 17 |
| S 18 | 9 53 22 | 29°52'12 | 20°52 | 13°56 | 6°51 | 29°53 | 27°52 | 4°27 | 16° 6 | 1°55 | 16° 7 | 7°34 | 6°27 | 22°11 | 21°24 | S 18 |
| M19 | 9 57 19 | 0♓52'34 | 2♉49 | 15°39 | 8° 3 | 0♑35 | 27°57 | 4°24 | 16° 9 | 1°56 | 16° 7 | 7°27 | 6°24 | 22°17 | 21°28 | M19 |
| T 20 | 10 1 15 | 1°52'55 | 14°55 | 17°19 | 9°15 | 1°16 | 28° 3 | 4°20 | 16°11 | 1°58 | 16° 7 | 7°24 | 6°20 | 22°24 | 21°32 | T 20 |
| W21 | 10 5 12 | 2°53'13 | 27°14 | 18°57 | 10°27 | 1°58 | 28° 9 | 4°16 | 16°14 | 1°59 | 16° 6 | 7°22 | 6°17 | 22°31 | 21°35 | W21 |
| T 22 | 10 9 9 | 3°53'30 | 9♊50 | 20°30 | 11°38 | 2°39 | 28°15 | 4°13 | 16°17 | 2° 0 | 16° 6 | 7°D22 | 6°14 | 22°37 | 21°39 | T 22 |
| F 23 | 10 13 5 | 4°53'44 | 22°48 | 22° 0 | 12°50 | 3°21 | 28°21 | 4° 9 | 16°19 | 2° 2 | 16° 6 | 7°23 | 6°11 | 22°44 | 21°42 | F 23 |
| S 24 | 10 17 2 | 5°53'56 | 6♋12 | 23°24 | 14° 1 | 4° 2 | 28°28 | 4° 5 | 16°22 | 2° 3 | 16° 6 | 7°R23 | 6° 8 | 22°51 | 21°46 | S 24 |
| S 25 | 10 20 58 | 6°54'07 | 20° 4 | 24°43 | 15°13 | 4°44 | 28°34 | 4° 1 | 16°25 | 2° 4 | 16° 6 | 7°23 | 6° 5 | 22°58 | 21°49 | S 25 |
| M26 | 10 24 55 | 7°54'15 | 4♌26 | 25°56 | 16°24 | 5°25 | 28°41 | 3°57 | 16°27 | 2° 5 | 16° 6 | 7°20 | 6° 1 | 23° 4 | 21°52 | M26 |
| T 27 | 10 28 51 | 8°54'21 | 19°14 | 27° 2 | 17°35 | 6° 7 | 28°48 | 3°53 | 16°30 | 2° 6 | 16° 6 | 7°14 | 5°58 | 23°11 | 21°55 | T 27 |
| W28 | 10 32 48 | 9♓54'25 | 4♍23 | 28♓ 1 | 18♈46 | 6♑48 | 28♉55 | 3♎49 | 16♑32 | 2♑ 8 | 16°D 6 | 7♑ 7 | 5♑55 | 23♓18 | 21♐58 | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 17s 2 | 3n 5 | 4s37 | 18s53 | 2s 3 | 6s31 | 1s11 | 22s57 | 0n 0 | 18n47 | 0s42 | 0n14 | 2n31 | 23s 0 | 0s23 | 22s24 | 1n 5 | 14n21 | 8s28 | 23s12 | 23s17 | 0n40 | 18s 8 | 5n 0 | T 1 |
| F 2 | 16 44 | 3s 9 | 5 4 | 18 21 | 2 2 | 6 0 | 1 8 | 23 2 | 0s 1 | 18 48 | 0 41 | 0 15 | 2 31 | 23 0 | 0 23 | 22 24 | 1 5 | 14 21 | 8 28 | 23 12 | 23 17 | 0 43 | 18 8 | 5 0 | F 2 |
| S 3 | 16 27 | 9 7 | 5 11 | 17 47 | 2 0 | 5 29 | 1 6 | 23 6 | 0 1 | 18 49 | 0 41 | 0 16 | 2 31 | 22 59 | 0 23 | 22 24 | 1 5 | 14 21 | 8 27 | 23 12 | 23 17 | 0 46 | 18 8 | 5 1 | S 3 |
| S 4 | 16 9 | 14 28 | 4 58 | 17 12 | 1 58 | 4 59 | 1 4 | 23 10 | 0 2 | 18 50 | 0 41 | 0 17 | 2 32 | 22 59 | 0 23 | 22 24 | 1 5 | 14 21 | 8 27 | 23 13 | 23 17 | 0 48 | 18 8 | 5 1 | S 4 |
| M 5 | 15 51 | 18 54 | 4 27 | 16 35 | 1 55 | 4 28 | 1 1 | 23 14 | 0 3 | 18 51 | 0 41 | 0 18 | 2 32 | 22 58 | 0 23 | 22 24 | 1 5 | 14 22 | 8 27 | 23 13 | 23 17 | 0 51 | 18 7 | 5 2 | M 5 |
| T 6 | 15 32 | 22 10 | 3 42 | 15 57 | 1 52 | 3 56 | 0 59 | 23 17 | 0 4 | 18 52 | 0 40 | 0 19 | 2 32 | 22 58 | 0 23 | 22 24 | 1 5 | 14 22 | 8 27 | 23 13 | 23 18 | 0 54 | 18 7 | 5 2 | T 6 |
| W 7 | 15 14 | 24 9 | 2 45 | 15 17 | 1 48 | 3 25 | 0 56 | 23 20 | 0 5 | 18 53 | 0 40 | 0 21 | 2 32 | 22 58 | 0 23 | 22 24 | 1 5 | 14 22 | 8 27 | 23 13 | 23 18 | 0 57 | 18 7 | 5 3 | W 7 |
| T 8 | 14 55 | 24 45 | 1 41 | 14 36 | 1 43 | 2 54 | 0 53 | 23 24 | 0 6 | 18 54 | 0 40 | 0 22 | 2 33 | 22 57 | 0 23 | 22 24 | 1 5 | 14 22 | 8 26 | 23 13 | 23 18 | 1 0 | 18 7 | 5 3 | T 8 |
| F 9 | 14 35 | 24 2 | 0 34 | 13 53 | 1 38 | 2 22 | 0 51 | 23 26 | 0 7 | 18 55 | 0 40 | 0 23 | 2 33 | 22 57 | 0 23 | 22 24 | 1 5 | 14 22 | 8 26 | 23 13 | 23 18 | 1 3 | 18 6 | 5 4 | F 9 |
| S 10 | 14 16 | 22 6 | 0n34 | 13 9 | 1 33 | 1 51 | 0 48 | 23 29 | 0 7 | 18 56 | 0 39 | 0 24 | 2 33 | 22 57 | 0 23 | 22 24 | 1 5 | 14 22 | 8 26 | 23 13 | 23 18 | 1 6 | 18 6 | 5 5 | S 10 |
| S 11 | 13 56 | 19 10 | 1 39 | 12 24 | 1 26 | 1 19 | 0 45 | 23 32 | 0 8 | 18 57 | 0 39 | 0 26 | 2 33 | 22 56 | 0 23 | 22 24 | 1 5 | 14 23 | 8 26 | 23 13 | 23 18 | 1 8 | 18 6 | 5 5 | S 11 |
| M12 | 13 36 | 15 25 | 2 38 | 11 38 | 1 19 | 0 48 | 0 42 | 23 34 | 0 9 | 18 59 | 0 39 | 0 27 | 2 34 | 22 56 | 0 23 | 22 23 | 1 5 | 14 23 | 8 26 | 23 13 | 23 19 | 1 11 | 18 6 | 5 6 | M12 |
| T 13 | 13 16 | 11 5 | 3 30 | 10 50 | 1 12 | 0 16 | 0 39 | 23 36 | 0 10 | 19 0 | 0 39 | 0 29 | 2 34 | 22 56 | 0 23 | 22 23 | 1 5 | 14 23 | 8 25 | 23 13 | 23 19 | 1 14 | 18 5 | 5 6 | T 13 |
| W14 | 12 56 | 6 23 | 4 12 | 10 2 | 1 3 | 0n15 | 0 36 | 23 38 | 0 11 | 19 1 | 0 38 | 0 30 | 2 34 | 22 55 | 0 24 | 22 23 | 1 5 | 14 23 | 8 25 | 23 14 | 23 19 | 1 17 | 18 5 | 5 7 | W14 |
| T 15 | 12 35 | 1 29 | 4 43 | 9 12 | 0 54 | 0 47 | 0 33 | 23 40 | 0 12 | 19 2 | 0 38 | 0 31 | 2 34 | 22 55 | 0 24 | 22 23 | 1 5 | 14 23 | 8 25 | 23 14 | 23 19 | 1 20 | 18 5 | 5 7 | T 15 |
| F 16 | 12 14 | 3n27 | 5 1 | 8 23 | 0 45 | 1 19 | 0 30 | 23 41 | 0 13 | 19 4 | 0 38 | 0 33 | 2 35 | 22 55 | 0 24 | 22 23 | 1 5 | 14 24 | 8 25 | 23 15 | 23 19 | 1 23 | 18 4 | 5 8 | F 16 |
| S 17 | 11 53 | 8 15 | 5 6 | 7 32 | 0 34 | 1 50 | 0 27 | 23 43 | 0 14 | 19 5 | 0 38 | 0 34 | 2 35 | 22 54 | 0 24 | 22 23 | 1 5 | 14 24 | 8 24 | 23 16 | 23 19 | 1 25 | 18 4 | 5 9 | S 17 |
| S 18 | 11 32 | 12 45 | 4 58 | 6 42 | 0 23 | 2 22 | 0 24 | 23 44 | 0 15 | 19 7 | 0 37 | 0 36 | 2 35 | 22 54 | 0 24 | 22 23 | 1 5 | 14 24 | 8 24 | 23 16 | 23 20 | 1 28 | 18 4 | 5 9 | S 18 |
| M19 | 11 11 | 16 48 | 4 37 | 5 51 | 0 12 | 2 53 | 0 20 | 23 44 | 0 15 | 19 8 | 0 37 | 0 37 | 2 35 | 22 54 | 0 24 | 22 23 | 1 5 | 14 24 | 8 24 | 23 16 | 23 20 | 1 31 | 18 3 | 5 10 | M19 |
| T 20 | 10 49 | 20 13 | 4 3 | 5 1 | 0n 1 | 3 25 | 0 17 | 23 45 | 0 16 | 19 10 | 0 37 | 0 39 | 2 35 | 22 54 | 0 24 | 22 23 | 1 5 | 14 24 | 8 24 | 23 17 | 23 20 | 1 34 | 18 3 | 5 10 | T 20 |
| W21 | 10 28 | 22 47 | 3 18 | 4 11 | 0 13 | 3 56 | 0 14 | 23 46 | 0 17 | 19 11 | 0 37 | 0 41 | 2 36 | 22 53 | 0 24 | 22 23 | 1 5 | 14 25 | 8 24 | 23 17 | 23 20 | 1 37 | 18 3 | 5 11 | W21 |
| T 22 | 10 6 | 24 18 | 2 22 | 3 22 | 0 26 | 4 27 | 0 10 | 23 46 | 0 18 | 19 13 | 0 37 | 0 42 | 2 36 | 22 53 | 0 24 | 22 23 | 1 5 | 14 25 | 8 23 | 23 17 | 23 20 | 1 40 | 18 2 | 5 11 | T 22 |
| F 23 | 9 44 | 24 34 | 1 17 | 2 34 | 0 40 | 4 58 | 0 7 | 23 46 | 0 19 | 19 14 | 0 36 | 0 44 | 2 36 | 22 53 | 0 24 | 22 23 | 1 5 | 14 25 | 8 23 | 23 17 | 23 20 | 1 43 | 18 2 | 5 12 | F 23 |
| S 24 | 9 22 | 23 27 | 0 6 | 1 48 | 0 54 | 5 30 | 0 3 | 23 46 | 0 20 | 19 16 | 0 36 | 0 46 | 2 36 | 22 52 | 0 24 | 22 23 | 1 5 | 14 25 | 8 23 | 23 17 | 23 21 | 1 45 | 18 2 | 5 13 | S 24 |
| S 25 | 9 0 | 20 52 | 1s 7 | 1 4 | 1 8 | 6 0 | 0n 0 | 23 45 | 0 21 | 19 18 | 0 36 | 0 47 | 2 36 | 22 52 | 0 24 | 22 23 | 1 5 | 14 25 | 8 23 | 23 17 | 23 21 | 1 48 | 18 1 | 5 13 | S 25 |
| M26 | 8 37 | 16 56 | 2 19 | 0 22 | 1 22 | 6 31 | 0 4 | 23 45 | 0 22 | 19 19 | 0 36 | 0 49 | 2 36 | 22 52 | 0 24 | 22 23 | 1 5 | 14 26 | 8 22 | 23 17 | 23 21 | 1 51 | 18 1 | 5 14 | M26 |
| T 27 | 8 15 | 11 51 | 3 24 | 0n18 | 1 37 | 7 2 | 0 8 | 23 44 | 0 23 | 19 21 | 0 36 | 0 51 | 2 37 | 22 51 | 0 24 | 22 23 | 1 5 | 14 26 | 8 22 | 23 17 | 23 21 | 1 54 | 18 0 | 5 15 | T 27 |
| W28 | 7s52 | 5n57 | 4s15 | 0n54 | 1n51 | 7n33 | 0n11 | 23s43 | 0s24 | 19n23 | 0s35 | 0n52 | 2n37 | 22s51 | 0s24 | 22s23 | 1n 5 | 14n26 | 8s22 | 23s18 | 23s21 | 1n57 | 18s 0 | 5n15 | W28 |

Julian Day Number = 2326298.5, Delta T = 38.39 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'19, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'14, Lahiri = 19°04'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## MARCH 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 36 44 | 10♓54'27 | 19♍41 | 28♓52 | 19♈57 | 7♑30 | 29♉ 2 | 3°R45 | 16♑35 | 2♑ 9 | 16♊ 6 | 6°R57 | 5♑52 | 23♓24 | 22♐ 1 | T 1 |
| F 2 | 10 40 41 | 11°54'28 | 4♎59 | 29°35 | 21° 8 | 8°12 | 29° 9 | 3♎41 | 16°37 | 2°10 | 16° 6 | 6♑47 | 5°49 | 23°31 | 22° 4 | F 2 |
| S 3 | 10 44 38 | 12°54'26 | 20° 5 | 0♈10 | 22°19 | 8°53 | 29°17 | 3°37 | 16°39 | 2°11 | 16° 6 | 6°38 | 5°46 | 23°38 | 22° 7 | S 3 |
| S 4 | 10 48 34 | 13°54'23 | 4♏49 | 0°36 | 23°29 | 9°35 | 29°24 | 3°33 | 16°42 | 2°12 | 16° 6 | 6°31 | 5°42 | 23°45 | 22°10 | S 4 |
| M 5 | 10 52 31 | 14°54'18 | 19° 7 | 0°53 | 24°40 | 10°16 | 29°32 | 3°29 | 16°44 | 2°13 | 16° 6 | 6°26 | 5°39 | 23°51 | 22°12 | M 5 |
| T 6 | 10 56 27 | 15°54'12 | 2♐57 | 1°R 1 | 25°50 | 10°58 | 29°40 | 3°24 | 16°46 | 2°14 | 16° 6 | 6°23 | 5°36 | 23°58 | 22°15 | T 6 |
| W 7 | 11 0 24 | 16°54'04 | 16°18 | 1° 1 | 27° 1 | 11°40 | 29°48 | 3°20 | 16°48 | 2°15 | 16° 6 | 6°D22 | 5°33 | 24° 5 | 22°17 | W 7 |
| T 8 | 11 4 20 | 17°53'54 | 29°16 | 0°51 | 28°11 | 12°21 | 29°56 | 3°15 | 16°51 | 2°16 | 16° 7 | 6°23 | 5°30 | 24°11 | 22°20 | T 8 |
| F 9 | 11 8 17 | 18°53'43 | 11♑53 | 0°34 | 29°21 | 13° 3 | 0♊ 5 | 3°11 | 16°53 | 2°16 | 16° 7 | 6°R23 | 5°26 | 24°18 | 22°22 | F 9 |
| S 10 | 11 12 13 | 19°53'30 | 24°14 | 0° 9 | 0♉31 | 13°45 | 0°13 | 3° 6 | 16°55 | 2°17 | 16° 7 | 6°21 | 5°23 | 24°25 | 22°24 | S 10 |
| S 11 | 11 16 10 | 20°53'15 | 6♒23 | 29♓37 | 1°40 | 14°26 | 0°22 | 3° 2 | 16°57 | 2°18 | 16° 7 | 6°18 | 5°20 | 24°32 | 22°26 | S 11 |
| M12 | 11 20 7 | 21°52'58 | 18°24 | 28°58 | 2°50 | 15° 8 | 0°30 | 2°57 | 16°59 | 2°19 | 16° 8 | 6°11 | 5°17 | 24°38 | 22°28 | M12 |
| T 13 | 11 24 3 | 22°52'40 | 0♓20 | 28°15 | 4° 0 | 15°50 | 0°39 | 2°53 | 17° 1 | 2°20 | 16° 8 | 6° 1 | 5°14 | 24°45 | 22°30 | T 13 |
| W14 | 11 28 0 | 23°52'19 | 12°13 | 27°27 | 5° 9 | 16°32 | 0°48 | 2°48 | 17° 3 | 2°20 | 16° 8 | 5°49 | 5°11 | 24°52 | 22°32 | W14 |
| T 15 | 11 31 56 | 24°51'56 | 24° 5 | 26°35 | 6°18 | 17°13 | 0°57 | 2°44 | 17° 4 | 2°21 | 16° 8 | 5°35 | 5° 7 | 24°59 | 22°33 | T 15 |
| F 16 | 11 35 53 | 25°51'32 | 5♈57 | 25°42 | 7°27 | 17°55 | 1° 6 | 2°39 | 17° 6 | 2°22 | 16° 9 | 5°21 | 5° 4 | 25° 5 | 22°35 | F 16 |
| S 17 | 11 39 49 | 26°51'05 | 17°51 | 24°48 | 8°36 | 18°37 | 1°16 | 2°34 | 17° 8 | 2°22 | 16° 9 | 5° 7 | 5° 1 | 25°12 | 22°36 | S 17 |
| S 18 | 11 43 46 | 27°50'36 | 29°47 | 23°54 | 9°45 | 19°19 | 1°25 | 2°30 | 17°10 | 2°23 | 16°10 | 4°54 | 4°58 | 25°19 | 22°38 | S 18 |
| M19 | 11 47 42 | 28°50'05 | 11♉49 | 23° 1 | 10°53 | 20° 0 | 1°35 | 2°25 | 17°11 | 2°23 | 16°10 | 4°44 | 4°55 | 25°25 | 22°39 | M19 |
| T 20 | 11 51 39 | 29°49'32 | 23°58 | 22°11 | 12° 2 | 20°42 | 1°45 | 2°20 | 17°13 | 2°24 | 16°10 | 4°37 | 4°52 | 25°32 | 22°40 | T 20 |
| W21 | 11 55 36 | 0♈48'57 | 6♊18 | 21°24 | 13°10 | 21°24 | 1°54 | 2°16 | 17°15 | 2°24 | 16°11 | 4°33 | 4°48 | 25°39 | 22°41 | W21 |
| T 22 | 11 59 32 | 1°48'19 | 18°52 | 20°40 | 14°18 | 22° 6 | 2° 4 | 2°11 | 17°16 | 2°25 | 16°11 | 4°32 | 4°45 | 25°46 | 22°42 | T 22 |
| F 23 | 12 3 29 | 2°47'39 | 1♋46 | 20° 2 | 15°26 | 22°47 | 2°14 | 2° 6 | 17°18 | 2°25 | 16°12 | 4°31 | 4°42 | 25°52 | 22°43 | F 23 |
| S 24 | 12 7 25 | 3°46'57 | 15° 2 | 19°28 | 16°34 | 23°29 | 2°24 | 2° 2 | 17°19 | 2°25 | 16°12 | 4°31 | 4°39 | 25°59 | 22°44 | S 24 |
| S 25 | 12 11 22 | 4°46'12 | 28°44 | 19° 0 | 17°42 | 24°11 | 2°35 | 1°57 | 17°21 | 2°26 | 16°13 | 4°30 | 4°36 | 26° 6 | 22°45 | S 25 |
| M26 | 12 15 18 | 5°45'25 | 12♌55 | 18°37 | 18°49 | 24°53 | 2°45 | 1°52 | 17°22 | 2°26 | 16°13 | 4°27 | 4°32 | 26°12 | 22°46 | M26 |
| T 27 | 12 19 15 | 6°44'35 | 27°33 | 18°20 | 19°56 | 25°34 | 2°55 | 1°48 | 17°23 | 2°26 | 16°14 | 4°21 | 4°29 | 26°19 | 22°46 | T 27 |
| W28 | 12 23 11 | 7°43'44 | 12♍34 | 18° 8 | 21° 3 | 26°16 | 3° 6 | 1°43 | 17°24 | 2°27 | 16°15 | 4°12 | 4°26 | 26°26 | 22°47 | W28 |
| T 29 | 12 27 8 | 8°42'50 | 27°50 | 18° 2 | 22°10 | 26°58 | 3°17 | 1°38 | 17°26 | 2°27 | 16°15 | 4° 2 | 4°23 | 26°33 | 22°47 | T 29 |
| F 30 | 12 31 4 | 9°41'53 | 13♎10 | 18°D 2 | 23°16 | 27°40 | 3°27 | 1°34 | 17°27 | 2°27 | 16°16 | 3°51 | 4°20 | 26°39 | 22°47 | F 30 |
| S 31 | 12 35 1 | 10♈40'55 | 28♎23 | 18♓ 7 | 24♉23 | 28♑21 | 3♊38 | 1♎29 | 17♑28 | 2♑27 | 16♊16 | 3♑40 | 4♑17 | 26♓46 | 22♐47 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s29 | 0s21 | 4s49 | 1n27 | 2n 5 | 8n 3 | 0n15 | 23s41 | 0s25 | 19n25 | 0s35 | 0n54 | 2n37 | 22s51 | 0s24 | 22s23 | 1n 5 | 14n26 | 8s22 | 23s18 | 23s21 | 2n 0 | 17s59 | 5n16 |
| F 2 | 7 7 | 6 37 | 5 3 | 1 57 | 2 18 | 8 33 | 0 19 | 23 40 | 0 26 | 19 26 | 0 35 | 0 56 | 2 37 | 22 51 | 0 24 | 22 23 | 1 5 | 14 27 | 8 21 | 23 19 | 23 21 | 2 2 | 17 59 | 5 16 |
| S 3 | 6 44 | 12 24 | 4 55 | 2 22 | 2 31 | 9 3 | 0 23 | 23 38 | 0 27 | 19 28 | 0 35 | 0 58 | 2 37 | 22 50 | 0 24 | 22 23 | 1 5 | 14 27 | 8 21 | 23 19 | 23 22 | 2 5 | 17 58 | 5 17 |
| S 4 | 6 21 | 17 20 | 4 27 | 2 44 | 2 43 | 9 33 | 0 26 | 23 36 | 0 28 | 19 30 | 0 34 | 1 0 | 2 37 | 22 50 | 0 24 | 22 23 | 1 5 | 14 27 | 8 21 | 23 19 | 23 22 | 2 8 | 17 58 | 5 18 |
| M 5 | 5 57 | 21 7 | 3 43 | 3 1 | 2 55 | 10 2 | 0 30 | 23 34 | 0 29 | 19 32 | 0 34 | 1 1 | 2 38 | 22 50 | 0 24 | 22 23 | 1 5 | 14 27 | 8 21 | 23 20 | 23 22 | 2 11 | 17 57 | 5 18 |
| T 6 | 5 34 | 23 32 | 2 48 | 3 14 | 3 5 | 10 32 | 0 34 | 23 32 | 0 30 | 19 34 | 0 34 | 1 3 | 2 38 | 22 50 | 0 24 | 22 23 | 1 5 | 14 27 | 8 21 | 23 20 | 23 22 | 2 14 | 17 57 | 5 19 |
| W 7 | 5 11 | 24 31 | 1 45 | 3 22 | 3 14 | 11 1 | 0 38 | 23 30 | 0 31 | 19 36 | 0 34 | 1 5 | 2 38 | 22 49 | 0 24 | 22 23 | 1 5 | 14 28 | 8 20 | 23 20 | 23 22 | 2 16 | 17 56 | 5 20 |
| T 8 | 4 48 | 24 7 | 0 38 | 3 26 | 3 22 | 11 30 | 0 42 | 23 27 | 0 32 | 19 38 | 0 34 | 1 7 | 2 38 | 22 49 | 0 24 | 22 22 | 1 5 | 14 28 | 8 20 | 23 20 | 23 22 | 2 19 | 17 56 | 5 20 |
| F 9 | 4 24 | 22 28 | 0n29 | 3 24 | 3 28 | 11 58 | 0 46 | 23 24 | 0 34 | 19 40 | 0 33 | 1 9 | 2 38 | 22 49 | 0 24 | 22 22 | 1 5 | 14 28 | 8 20 | 23 20 | 23 22 | 2 22 | 17 55 | 5 21 |
| S 10 | 4 1 | 19 47 | 1 33 | 3 18 | 3 32 | 12 27 | 0 50 | 23 21 | 0 35 | 19 42 | 0 33 | 1 11 | 2 38 | 22 49 | 0 24 | 22 22 | 1 5 | 14 28 | 8 20 | 23 20 | 23 22 | 2 25 | 17 55 | 5 22 |
| S 11 | 3 37 | 16 16 | 2 32 | 3 8 | 3 35 | 12 55 | 0 54 | 23 17 | 0 36 | 19 44 | 0 33 | 1 13 | 2 38 | 22 48 | 0 24 | 22 22 | 1 6 | 14 29 | 8 19 | 23 20 | 23 23 | 2 28 | 17 54 | 5 22 |
| M12 | 3 14 | 12 7 | 3 23 | 2 54 | 3 36 | 13 23 | 0 57 | 23 14 | 0 37 | 19 46 | 0 33 | 1 15 | 2 38 | 22 48 | 0 24 | 22 22 | 1 6 | 14 29 | 8 19 | 23 20 | 23 23 | 2 31 | 17 54 | 5 23 |
| T 13 | 2 50 | 7 34 | 4 4 | 2 35 | 3 35 | 13 50 | 1 1 | 23 10 | 0 38 | 19 48 | 0 33 | 1 16 | 2 38 | 22 48 | 0 24 | 22 22 | 1 6 | 14 29 | 8 19 | 23 21 | 23 23 | 2 33 | 17 53 | 5 24 |
| W14 | 2 26 | 2 45 | 4 35 | 2 13 | 3 32 | 14 17 | 1 5 | 23 6 | 0 39 | 19 50 | 0 32 | 1 18 | 2 38 | 22 48 | 0 24 | 22 22 | 1 6 | 14 29 | 8 19 | 23 21 | 23 23 | 2 36 | 17 53 | 5 24 |
| T 15 | 2 3 | 2n 8 | 4 54 | 1 49 | 3 27 | 14 44 | 1 9 | 23 2 | 0 40 | 19 52 | 0 32 | 1 20 | 2 39 | 22 47 | 0 24 | 22 22 | 1 6 | 14 30 | 8 18 | 23 22 | 23 23 | 2 39 | 17 52 | 5 25 |
| F 16 | 1 39 | 6 57 | 5 0 | 1 21 | 3 20 | 15 11 | 1 13 | 22 58 | 0 41 | 19 54 | 0 32 | 1 22 | 2 39 | 22 47 | 0 24 | 22 22 | 1 6 | 14 30 | 8 18 | 23 23 | 23 23 | 2 42 | 17 52 | 5 26 |
| S 17 | 1 15 | 11 31 | 4 52 | 0 52 | 3 12 | 15 37 | 1 17 | 22 53 | 0 42 | 19 56 | 0 32 | 1 24 | 2 39 | 22 47 | 0 24 | 22 22 | 1 6 | 14 30 | 8 18 | 23 23 | 23 23 | 2 45 | 17 51 | 5 26 |
| S 18 | 0 52 | 15 40 | 4 32 | 0 21 | 3 2 | 16 3 | 1 21 | 22 49 | 0 44 | 19 58 | 0 32 | 1 26 | 2 39 | 22 47 | 0 24 | 22 22 | 1 6 | 14 31 | 8 18 | 23 24 | 23 23 | 2 47 | 17 50 | 5 27 |
| M19 | 0 28 | 19 13 | 4 0 | 0s10 | 2 51 | 16 28 | 1 25 | 22 44 | 0 45 | 20 0 | 0 32 | 1 28 | 2 39 | 22 47 | 0 24 | 22 22 | 1 6 | 14 31 | 8 18 | 23 24 | 23 24 | 2 50 | 17 50 | 5 28 |
| T 20 | 0 4 | 21 58 | 3 17 | 0 41 | 2 38 | 16 53 | 1 29 | 22 38 | 0 46 | 20 2 | 0 31 | 1 30 | 2 39 | 22 47 | 0 24 | 22 22 | 1 6 | 14 31 | 8 17 | 23 24 | 23 24 | 2 53 | 17 49 | 5 28 |
| W21 | 0n20 | 23 45 | 2 23 | 1 12 | 2 24 | 17 18 | 1 33 | 22 33 | 0 47 | 20 4 | 0 31 | 1 32 | 2 39 | 22 46 | 0 24 | 22 22 | 1 6 | 14 31 | 8 17 | 23 24 | 23 24 | 2 56 | 17 49 | 5 29 |
| T 22 | 0 43 | 24 22 | 1 22 | 1 43 | 2 10 | 17 42 | 1 37 | 22 28 | 0 48 | 20 6 | 0 31 | 1 34 | 2 39 | 22 46 | 0 24 | 22 22 | 1 6 | 14 32 | 8 17 | 23 24 | 23 24 | 2 59 | 17 48 | 5 30 |
| F 23 | 1 7 | 23 43 | 0 15 | 2 12 | 1 55 | 18 6 | 1 41 | 22 22 | 0 49 | 20 9 | 0 31 | 1 36 | 2 39 | 22 46 | 0 24 | 22 22 | 1 6 | 14 32 | 8 17 | 23 24 | 23 24 | 3 1 | 17 47 | 5 30 |
| S 24 | 1 30 | 21 43 | 0s55 | 2 39 | 1 39 | 18 30 | 1 45 | 22 16 | 0 51 | 20 11 | 0 31 | 1 37 | 2 39 | 22 46 | 0 24 | 22 22 | 1 6 | 14 32 | 8 16 | 23 24 | 23 24 | 3 4 | 17 47 | 5 31 |
| S 25 | 1 54 | 18 26 | 2 4 | 3 5 | 1 24 | 18 53 | 1 49 | 22 10 | 0 52 | 20 13 | 0 30 | 1 39 | 2 39 | 22 46 | 0 24 | 22 22 | 1 6 | 14 32 | 8 16 | 23 24 | 23 24 | 3 7 | 17 46 | 5 32 |
| M26 | 2 17 | 13 58 | 3 8 | 3 28 | 1 8 | 19 15 | 1 52 | 22 4 | 0 53 | 20 15 | 0 30 | 1 41 | 2 39 | 22 46 | 0 24 | 22 22 | 1 6 | 14 33 | 8 16 | 23 25 | 23 24 | 3 10 | 17 45 | 5 32 |
| T 27 | 2 41 | 8 34 | 4 1 | 3 49 | 0 52 | 19 37 | 1 56 | 21 57 | 0 54 | 20 17 | 0 30 | 1 43 | 2 39 | 22 45 | 0 25 | 22 22 | 1 6 | 14 33 | 8 16 | 23 25 | 23 24 | 3 12 | 17 45 | 5 33 |
| W28 | 3 4 | 2 33 | 4 39 | 4 8 | 0 37 | 19 59 | 2 0 | 21 51 | 0 55 | 20 20 | 0 30 | 1 45 | 2 39 | 22 45 | 0 25 | 22 22 | 1 6 | 14 33 | 8 16 | 23 25 | 23 25 | 3 15 | 17 44 | 5 34 |
| T 29 | 3 28 | 3s42 | 4 58 | 4 24 | 0 22 | 20 20 | 2 4 | 21 44 | 0 57 | 20 22 | 0 30 | 1 47 | 2 39 | 22 45 | 0 25 | 22 22 | 1 6 | 14 33 | 8 15 | 23 25 | 23 25 | 3 18 | 17 43 | 5 34 |
| F 30 | 3 51 | 9 45 | 4 56 | 4 38 | 0 7 | 20 41 | 2 7 | 21 37 | 0 58 | 20 24 | 0 30 | 1 49 | 2 39 | 22 45 | 0 25 | 22 22 | 1 6 | 14 34 | 8 15 | 23 26 | 23 25 | 3 21 | 17 43 | 5 35 |
| S 31 | 4n14 | 15s10 | 4s33 | 4s49 | 0s 7 | 21n 1 | 2n11 | 21s30 | 0s59 | 20n26 | 0s29 | 1n50 | 2n39 | 22s45 | 0s25 | 22s22 | 1n 6 | 14n34 | 8s15 | 23s26 | 23s25 | 3n24 | 17s42 | 5n36 |

Julian Day Number = 2326326.5, Delta T = 38.33 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'18, Lahiri = 19°04'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## APRIL 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 38 58 | 11♈39'55 | 13♏17 | 18♓18 | 25♉29 | 29♑ 3 | 3♊49 | 1°R24 | 17♑29 | 2♑27 | 16♊17 | 3°R31 | 4♑13 | 26♓53 | 22°R47 | S 1 |
| M 2 | 12 42 54 | 12°38'53 | 27°46 | 18°34 | 26°35 | 29°45 | 4° 0 | 1♎20 | 17°30 | 2°27 | 16°18 | 3♑25 | 4°10 | 27° 0 | 22♐47 | M 2 |
| T 3 | 12 46 51 | 13°37'50 | 11♐46 | 18°54 | 27°40 | 0♒27 | 4°11 | 1°15 | 17°31 | 2°27 | 16°19 | 3°21 | 4° 7 | 27° 6 | 22°47 | T 3 |
| W 4 | 12 50 47 | 14°36'45 | 25°16 | 19°19 | 28°46 | 1° 8 | 4°22 | 1°11 | 17°32 | 2°R27 | 16°19 | 3°20 | 4° 4 | 27°13 | 22°47 | W 4 |
| T 5 | 12 54 44 | 15°35'37 | 8♑19 | 19°49 | 29°51 | 1°50 | 4°34 | 1° 6 | 17°33 | 2°27 | 16°20 | 3°D20 | 4° 1 | 27°20 | 22°47 | T 5 |
| F 6 | 12 58 40 | 16°34'29 | 20°58 | 20°22 | 0♊56 | 2°32 | 4°45 | 1° 2 | 17°33 | 2°27 | 16°21 | 3°R20 | 3°57 | 27°26 | 22°46 | F 6 |
| S 7 | 13 2 37 | 17°33'18 | 3♒18 | 21° 0 | 2° 1 | 3°14 | 4°56 | 0°57 | 17°34 | 2°27 | 16°22 | 3°19 | 3°54 | 27°33 | 22°46 | S 7 |
| S 8 | 13 6 33 | 18°32'06 | 15°25 | 21°42 | 3° 5 | 3°55 | 5° 8 | 0°53 | 17°35 | 2°27 | 16°22 | 3°16 | 3°51 | 27°40 | 22°45 | S 8 |
| M 9 | 13 10 30 | 19°30'51 | 27°22 | 22°27 | 4° 9 | 4°37 | 5°20 | 0°49 | 17°36 | 2°27 | 16°23 | 3°10 | 3°48 | 27°47 | 22°45 | M 9 |
| T 10 | 13 14 27 | 20°29'35 | 9♓14 | 23°16 | 5°13 | 5°19 | 5°31 | 0°44 | 17°36 | 2°27 | 16°24 | 3° 2 | 3°45 | 27°53 | 22°44 | T 10 |
| W11 | 13 18 23 | 21°28'17 | 21° 5 | 24° 8 | 6°17 | 6° 1 | 5°43 | 0°40 | 17°37 | 2°26 | 16°25 | 2°51 | 3°42 | 28° 0 | 22°43 | W11 |
| T 12 | 13 22 20 | 22°26'58 | 2♈57 | 25° 3 | 7°20 | 6°42 | 5°55 | 0°36 | 17°37 | 2°26 | 16°26 | 2°39 | 3°38 | 28° 7 | 22°42 | T 12 |
| F 13 | 13 26 16 | 23°25'36 | 14°51 | 26° 1 | 8°24 | 7°24 | 6° 7 | 0°32 | 17°38 | 2°26 | 16°27 | 2°26 | 3°35 | 28°13 | 22°41 | F 13 |
| S 14 | 13 30 13 | 24°24'13 | 26°50 | 27° 2 | 9°26 | 8° 6 | 6°19 | 0°28 | 17°38 | 2°25 | 16°28 | 2°13 | 3°32 | 28°20 | 22°40 | S 14 |
| S 15 | 13 34 9 | 25°22'47 | 8♉54 | 28° 6 | 10°29 | 8°47 | 6°31 | 0°24 | 17°38 | 2°25 | 16°29 | 2° 2 | 3°29 | 28°27 | 22°39 | S 15 |
| M16 | 13 38 6 | 26°21'20 | 21° 5 | 29°12 | 11°31 | 9°29 | 6°43 | 0°20 | 17°39 | 2°25 | 16°30 | 1°53 | 3°26 | 28°34 | 22°37 | M16 |
| T 17 | 13 42 2 | 27°19'51 | 3♊24 | 0♈21 | 12°33 | 10°11 | 6°55 | 0°16 | 17°39 | 2°24 | 16°31 | 1°47 | 3°23 | 28°40 | 22°36 | T 17 |
| W18 | 13 45 59 | 28°18'20 | 15°53 | 1°33 | 13°34 | 10°52 | 7° 7 | 0°12 | 17°39 | 2°24 | 16°32 | 1°43 | 3°19 | 28°47 | 22°34 | W18 |
| T 19 | 13 49 56 | 29°16'46 | 28°35 | 2°46 | 14°36 | 11°34 | 7°20 | 0° 8 | 17°39 | 2°23 | 16°33 | 1°D42 | 3°16 | 28°54 | 22°33 | T 19 |
| F 20 | 13 53 52 | 0♉15'11 | 11♋33 | 4° 2 | 15°36 | 12°15 | 7°32 | 0° 4 | 17°39 | 2°23 | 16°34 | 1°42 | 3°13 | 29° 1 | 22°31 | F 20 |
| S 21 | 13 57 49 | 1°13'33 | 24°48 | 5°20 | 16°37 | 12°57 | 7°44 | 0° 1 | 17°R39 | 2°22 | 16°35 | 1°R43 | 3°10 | 29° 7 | 22°29 | S 21 |
| S 22 | 14 1 45 | 2°11'53 | 8♌25 | 6°41 | 17°37 | 13°38 | 7°57 | 29♍57 | 17°39 | 2°22 | 16°36 | 1°43 | 3° 7 | 29°14 | 22°27 | S 22 |
| M23 | 14 5 42 | 3°10'11 | 22°26 | 8° 3 | 18°37 | 14°20 | 8° 9 | 29°54 | 17°39 | 2°21 | 16°37 | 1°41 | 3° 3 | 29°21 | 22°26 | M23 |
| T 24 | 14 9 38 | 4° 8'27 | 6♍48 | 9°28 | 19°36 | 15° 1 | 8°22 | 29°50 | 17°39 | 2°20 | 16°38 | 1°37 | 3° 0 | 29°27 | 22°24 | T 24 |
| W25 | 14 13 35 | 5° 6'41 | 21°32 | 10°54 | 20°35 | 15°43 | 8°35 | 29°47 | 17°39 | 2°20 | 16°39 | 1°31 | 2°57 | 29°34 | 22°22 | W25 |
| T 26 | 14 17 31 | 6° 4'53 | 6♎30 | 12°23 | 21°33 | 16°24 | 8°47 | 29°43 | 17°39 | 2°19 | 16°40 | 1°24 | 2°54 | 29°41 | 22°19 | T 26 |
| F 27 | 14 21 28 | 7° 3'03 | 21°34 | 13°53 | 22°31 | 17° 6 | 9° 0 | 29°40 | 17°39 | 2°18 | 16°41 | 1°16 | 2°51 | 29°48 | 22°17 | F 27 |
| S 28 | 14 25 25 | 8° 1'11 | 6♏36 | 15°25 | 23°28 | 17°47 | 9°13 | 29°37 | 17°38 | 2°18 | 16°42 | 1° 8 | 2°48 | 29°54 | 22°15 | S 28 |
| S 29 | 14 29 21 | 8°59'17 | 21°25 | 17° 0 | 24°25 | 18°28 | 9°26 | 29°34 | 17°38 | 2°17 | 16°43 | 1° 1 | 2°44 | 0♈ 1 | 22°12 | S 29 |
| M30 | 14 33 18 | 9♉57'22 | 5♐53 | 18♈36 | 25♊22 | 19♒10 | 9♊39 | 29♍31 | 17♑38 | 2♑16 | 16♊44 | 0♑57 | 2♑41 | 0♈ 8 | 22♐10 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n37 | 19s32 | 3s52 | 4s58 | 0s21 | 21n21 | 2n15 | 21s22 | 1s 0 | 20n28 | 0s29 | 1n52 | 2n39 | 22s45 | 0s25 | 22s22 | 1n 6 | 14n34 | 8s15 | 23s26 | 23s25 | 3n26 | 17s41 | 5n36 |
| M 2 | 5 0 | 22 33 | 2 56 | 5 4 | 0 34 | 21 40 | 2 18 | 21 15 | 1 2 | 20 31 | 0 29 | 1 54 | 2 39 | 22 45 | 0 25 | 22 22 | 1 6 | 14 35 | 8 15 | 23 26 | 23 25 | 3 29 | 17 41 | 5 37 |
| T 3 | 5 23 | 24 5 | 1 51 | 5 7 | 0 47 | 21 59 | 2 22 | 21 7 | 1 3 | 20 33 | 0 29 | 1 56 | 2 39 | 22 45 | 0 25 | 22 22 | 1 6 | 14 35 | 8 14 | 23 26 | 23 25 | 3 32 | 17 40 | 5 38 |
| W 4 | 5 46 | 24 6 | 0 43 | 5 9 | 0 59 | 22 17 | 2 25 | 20 59 | 1 4 | 20 35 | 0 29 | 1 58 | 2 39 | 22 45 | 0 25 | 22 21 | 1 6 | 14 35 | 8 14 | 23 27 | 23 25 | 3 35 | 17 39 | 5 38 |
| T 5 | 6 9 | 22 47 | 0n26 | 5 8 | 1 11 | 22 35 | 2 29 | 20 51 | 1 5 | 20 37 | 0 29 | 1 59 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 35 | 8 14 | 23 27 | 23 25 | 3 37 | 17 39 | 5 39 |
| F 6 | 6 32 | 20 20 | 1 32 | 5 4 | 1 21 | 22 52 | 2 32 | 20 43 | 1 7 | 20 40 | 0 29 | 2 1 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 36 | 8 14 | 23 27 | 23 25 | 3 40 | 17 38 | 5 40 |
| S 7 | 6 54 | 17 0 | 2 32 | 4 59 | 1 32 | 23 9 | 2 36 | 20 34 | 1 8 | 20 42 | 0 28 | 2 3 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 36 | 8 14 | 23 27 | 23 26 | 3 43 | 17 37 | 5 40 |
| S 8 | 7 17 | 13 1 | 3 23 | 4 51 | 1 41 | 23 25 | 2 39 | 20 26 | 1 9 | 20 44 | 0 28 | 2 4 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 36 | 8 13 | 23 27 | 23 26 | 3 46 | 17 37 | 5 41 |
| M 9 | 7 39 | 8 34 | 4 5 | 4 41 | 1 50 | 23 40 | 2 42 | 20 17 | 1 11 | 20 46 | 0 28 | 2 6 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 37 | 8 13 | 23 27 | 23 26 | 3 48 | 17 36 | 5 42 |
| T 10 | 8 1 | 3 51 | 4 36 | 4 29 | 1 58 | 23 55 | 2 45 | 20 8 | 1 12 | 20 48 | 0 28 | 2 8 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 37 | 8 13 | 23 27 | 23 26 | 3 51 | 17 35 | 5 42 |
| W11 | 8 23 | 0n59 | 4 55 | 4 16 | 2 6 | 24 10 | 2 48 | 19 59 | 1 13 | 20 51 | 0 28 | 2 9 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 37 | 8 13 | 23 27 | 23 26 | 3 54 | 17 35 | 5 43 |
| T 12 | 8 45 | 5 46 | 5 1 | 4 0 | 2 13 | 24 23 | 2 51 | 19 50 | 1 15 | 20 53 | 0 28 | 2 11 | 2 39 | 22 44 | 0 25 | 22 21 | 1 6 | 14 37 | 8 13 | 23 27 | 23 26 | 3 57 | 17 34 | 5 43 |
| F 13 | 9 7 | 10 23 | 4 54 | 3 43 | 2 19 | 24 37 | 2 54 | 19 41 | 1 16 | 20 55 | 0 27 | 2 13 | 2 38 | 22 44 | 0 25 | 22 21 | 1 6 | 14 38 | 8 12 | 23 28 | 23 26 | 3 59 | 17 33 | 5 44 |
| S 14 | 9 29 | 14 37 | 4 34 | 3 23 | 2 25 | 24 49 | 2 57 | 19 31 | 1 17 | 20 57 | 0 27 | 2 14 | 2 38 | 22 44 | 0 25 | 22 21 | 1 6 | 14 38 | 8 12 | 23 28 | 23 26 | 4 2 | 17 33 | 5 45 |
| S 15 | 9 50 | 18 18 | 4 2 | 3 3 | 2 30 | 25 1 | 3 0 | 19 22 | 1 19 | 20 59 | 0 27 | 2 16 | 2 38 | 22 44 | 0 25 | 22 21 | 1 6 | 14 38 | 8 12 | 23 28 | 23 26 | 4 5 | 17 32 | 5 45 |
| M16 | 10 11 | 21 15 | 3 18 | 2 40 | 2 34 | 25 13 | 3 2 | 19 12 | 1 20 | 21 2 | 0 27 | 2 17 | 2 38 | 22 44 | 0 25 | 22 21 | 1 7 | 14 38 | 8 12 | 23 28 | 23 26 | 4 8 | 17 31 | 5 46 |
| T 17 | 10 33 | 23 14 | 2 25 | 2 16 | 2 38 | 25 24 | 3 5 | 19 2 | 1 21 | 21 4 | 0 27 | 2 19 | 2 38 | 22 44 | 0 25 | 22 21 | 1 7 | 14 39 | 8 12 | 23 28 | 23 26 | 4 10 | 17 31 | 5 47 |
| W18 | 10 54 | 24 7 | 1 23 | 1 51 | 2 41 | 25 34 | 3 7 | 18 52 | 1 23 | 21 6 | 0 27 | 2 20 | 2 38 | 22 44 | 0 25 | 22 21 | 1 7 | 14 39 | 8 11 | 23 28 | 23 27 | 4 13 | 17 30 | 5 47 |
| T 19 | 11 14 | 23 45 | 0 17 | 1 24 | 2 44 | 25 44 | 3 10 | 18 42 | 1 24 | 21 8 | 0 27 | 2 22 | 2 38 | 22 44 | 0 25 | 22 21 | 1 7 | 14 39 | 8 11 | 23 28 | 23 27 | 4 16 | 17 29 | 5 48 |
| F 20 | 11 35 | 22 7 | 0s52 | 0 56 | 2 46 | 25 53 | 3 12 | 18 31 | 1 25 | 21 10 | 0 26 | 2 23 | 2 38 | 22 44 | 0 25 | 22 21 | 1 7 | 14 40 | 8 11 | 23 28 | 23 27 | 4 19 | 17 28 | 5 48 |
| S 21 | 11 55 | 19 14 | 2 0 | 0 26 | 2 47 | 26 2 | 3 14 | 18 21 | 1 27 | 21 13 | 0 26 | 2 24 | 2 38 | 22 44 | 0 25 | 22 21 | 1 7 | 14 40 | 8 11 | 23 28 | 23 27 | 4 21 | 17 28 | 5 49 |
| S 22 | 12 16 | 15 15 | 3 3 | 0n 5 | 2 48 | 26 10 | 3 16 | 18 10 | 1 28 | 21 15 | 0 26 | 2 26 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 40 | 8 11 | 23 28 | 23 27 | 4 24 | 17 27 | 5 50 |
| M23 | 12 36 | 10 20 | 3 57 | 0 37 | 2 48 | 26 17 | 3 18 | 17 59 | 1 30 | 21 17 | 0 26 | 2 27 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 40 | 8 11 | 23 28 | 23 27 | 4 27 | 17 26 | 5 50 |
| T 24 | 12 55 | 4 44 | 4 37 | 1 11 | 2 48 | 26 24 | 3 20 | 17 49 | 1 31 | 21 19 | 0 26 | 2 28 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 41 | 8 10 | 23 28 | 23 27 | 4 30 | 17 26 | 5 51 |
| W25 | 13 15 | 1s14 | 5 1 | 1 46 | 2 47 | 26 30 | 3 22 | 17 38 | 1 32 | 21 21 | 0 26 | 2 29 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 41 | 8 10 | 23 29 | 23 27 | 4 32 | 17 25 | 5 51 |
| T 26 | 13 34 | 7 14 | 5 4 | 2 22 | 2 45 | 26 36 | 3 23 | 17 26 | 1 34 | 21 23 | 0 26 | 2 31 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 41 | 8 10 | 23 29 | 23 27 | 4 35 | 17 24 | 5 52 |
| F 27 | 13 54 | 12 51 | 4 46 | 2 59 | 2 43 | 26 41 | 3 25 | 17 15 | 1 35 | 21 25 | 0 25 | 2 32 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 41 | 8 10 | 23 29 | 23 27 | 4 38 | 17 24 | 5 53 |
| S 28 | 14 12 | 17 40 | 4 9 | 3 37 | 2 41 | 26 45 | 3 26 | 17 4 | 1 37 | 21 27 | 0 25 | 2 33 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 42 | 8 10 | 23 29 | 23 27 | 4 40 | 17 23 | 5 53 |
| S 29 | 14 31 | 21 18 | 3 16 | 4 16 | 2 38 | 26 49 | 3 28 | 16 52 | 1 38 | 21 29 | 0 25 | 2 34 | 2 37 | 22 44 | 0 25 | 22 21 | 1 7 | 14 42 | 8 10 | 23 29 | 23 27 | 4 43 | 17 22 | 5 54 |
| M30 | 14n50 | 23s28 | 2s10 | 4n56 | 2s34 | 26n53 | 3n29 | 16s41 | 1s40 | 21n31 | 0s25 | 2n35 | 2n36 | 22s45 | 0s26 | 22s21 | 1n 7 | 14n42 | 8s 9 | 23s29 | 23s27 | 4n46 | 17s22 | 5n54 |

Julian Day Number = 2326357.5, Delta T = 38.27 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'22, Lahiri = 19°04'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## MAY 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 37 14 | 10♉55'25 | 19♐56 | 20♈14 | 26♊18 | 19♒51 | 9♊52 | 29°R28 | 17°R37 | 2°R15 | 16♊46 | 0°R54 | 2♑38 | 0♈14 | 22°R 7 | T 1 |
| W 2 | 14 41 11 | 11°53'27 | 3♑31 | 21°55 | 27°13 | 20°32 | 10° 5 | 29♍25 | 17♑37 | 2♑14 | 16°47 | 0°D54 | 2°35 | 0°21 | 22♐ 5 | W 2 |
| T 3 | 14 45 7 | 12°51'28 | 16°39 | 23°37 | 28° 8 | 21°14 | 10°18 | 29°22 | 17°36 | 2°13 | 16°48 | 0♑54 | 2°32 | 0°28 | 22° 2 | T 3 |
| F 4 | 14 49 4 | 13°49'27 | 29°23 | 25°21 | 29° 2 | 21°55 | 10°31 | 29°20 | 17°36 | 2°13 | 16°49 | 0°56 | 2°29 | 0°35 | 21°59 | F 4 |
| S 5 | 14 53 0 | 14°47'24 | 11♒48 | 27° 7 | 29°56 | 22°36 | 10°44 | 29°17 | 17°35 | 2°12 | 16°50 | 0°R57 | 2°25 | 0°41 | 21°57 | S 5 |
| S 6 | 14 56 57 | 15°45'21 | 23°57 | 28°55 | 0♋49 | 23°17 | 10°57 | 29°15 | 17°34 | 2°11 | 16°52 | 0°56 | 2°22 | 0°48 | 21°54 | S 6 |
| M 7 | 15 0 54 | 16°43'16 | 5♓55 | 0♉45 | 1°42 | 23°58 | 11°10 | 29°12 | 17°33 | 2°10 | 16°53 | 0°54 | 2°19 | 0°55 | 21°51 | M 7 |
| T 8 | 15 4 50 | 17°41'09 | 17°48 | 2°37 | 2°34 | 24°39 | 11°24 | 29°10 | 17°33 | 2° 9 | 16°54 | 0°50 | 2°16 | 1° 2 | 21°48 | T 8 |
| W 9 | 15 8 47 | 18°39'02 | 29°39 | 4°30 | 3°25 | 25°20 | 11°37 | 29° 8 | 17°32 | 2° 8 | 16°55 | 0°45 | 2°13 | 1° 8 | 21°45 | W 9 |
| T 10 | 15 12 43 | 19°36'53 | 11♈33 | 6°26 | 4°15 | 26° 1 | 11°50 | 29° 5 | 17°31 | 2° 6 | 16°57 | 0°38 | 2° 9 | 1°15 | 21°42 | T 10 |
| F 11 | 15 16 40 | 20°34'43 | 23°31 | 8°24 | 5° 5 | 26°42 | 12° 4 | 29° 3 | 17°30 | 2° 5 | 16°58 | 0°31 | 2° 6 | 1°22 | 21°38 | F 11 |
| S 12 | 15 20 36 | 21°32'31 | 5♉36 | 10°23 | 5°54 | 27°23 | 12°17 | 29° 1 | 17°29 | 2° 4 | 16°59 | 0°23 | 2° 3 | 1°28 | 21°35 | S 12 |
| S 13 | 15 24 33 | 22°30'18 | 17°51 | 12°24 | 6°43 | 28° 4 | 12°30 | 29° 0 | 17°28 | 2° 3 | 17° 0 | 0°17 | 2° 0 | 1°35 | 21°32 | S 13 |
| M14 | 15 28 29 | 23°28'04 | 0♊15 | 14°27 | 7°30 | 28°44 | 12°44 | 28°58 | 17°27 | 2° 2 | 17° 2 | 0°12 | 1°57 | 1°42 | 21°28 | M14 |
| T 15 | 15 32 26 | 24°25'49 | 12°49 | 16°32 | 8°17 | 29°25 | 12°57 | 28°56 | 17°26 | 2° 1 | 17° 3 | 0° 9 | 1°54 | 1°49 | 21°25 | T 15 |
| W16 | 15 36 23 | 25°23'32 | 25°36 | 18°38 | 9° 3 | 0♓ 6 | 13°11 | 28°55 | 17°25 | 2° 0 | 17° 4 | 0°D 8 | 1°50 | 1°55 | 21°22 | W16 |
| T 17 | 15 40 19 | 26°21'14 | 8♋34 | 20°46 | 9°48 | 0°46 | 13°24 | 28°53 | 17°24 | 1°58 | 17° 6 | 0° 8 | 1°47 | 2° 2 | 21°18 | T 17 |
| F 18 | 15 44 16 | 27°18'54 | 21°46 | 22°55 | 10°32 | 1°27 | 13°38 | 28°52 | 17°22 | 1°57 | 17° 7 | 0° 9 | 1°44 | 2° 9 | 21°15 | F 18 |
| S 19 | 15 48 12 | 28°16'32 | 5♌13 | 25° 5 | 11°15 | 2° 7 | 13°51 | 28°50 | 17°21 | 1°56 | 17° 8 | 0°11 | 1°41 | 2°16 | 21°11 | S 19 |
| S 20 | 15 52 9 | 29°14'09 | 18°55 | 27°15 | 11°57 | 2°47 | 14° 5 | 28°49 | 17°20 | 1°55 | 17°10 | 0°12 | 1°38 | 2°22 | 21° 7 | S 20 |
| M21 | 15 56 5 | 0♊11'45 | 2♍52 | 29°27 | 12°38 | 3°28 | 14°19 | 28°48 | 17°18 | 1°53 | 17°11 | 0°R12 | 1°35 | 2°29 | 21° 4 | M21 |
| T 22 | 16 0 2 | 1° 9'19 | 17° 5 | 1♊39 | 13°18 | 4° 8 | 14°32 | 28°47 | 17°17 | 1°52 | 17°12 | 0°11 | 1°31 | 2°36 | 21° 0 | T 22 |
| W23 | 16 3 58 | 2° 6'51 | 1♎31 | 3°51 | 13°56 | 4°48 | 14°46 | 28°46 | 17°16 | 1°51 | 17°14 | 0° 9 | 1°28 | 2°42 | 20°56 | W23 |
| T 24 | 16 7 55 | 3° 4'23 | 16° 6 | 6° 2 | 14°34 | 5°28 | 15° 0 | 28°45 | 17°14 | 1°49 | 17°15 | 0° 6 | 1°25 | 2°49 | 20°52 | T 24 |
| F 25 | 16 11 52 | 4° 1'52 | 0♏46 | 8°14 | 15°10 | 6° 8 | 15°13 | 28°45 | 17°13 | 1°48 | 17°17 | 0° 2 | 1°22 | 2°56 | 20°48 | F 25 |
| S 26 | 16 15 48 | 4°59'21 | 15°23 | 10°24 | 15°46 | 6°48 | 15°27 | 28°44 | 17°11 | 1°47 | 17°18 | 29♐59 | 1°19 | 3° 3 | 20°45 | S 26 |
| S 27 | 16 19 45 | 5°56'48 | 29°51 | 12°34 | 16°19 | 7°28 | 15°41 | 28°44 | 17° 9 | 1°45 | 17°19 | 29°56 | 1°15 | 3° 9 | 20°41 | S 27 |
| M28 | 16 23 41 | 6°54'15 | 14♐ 4 | 14°42 | 16°52 | 8° 7 | 15°55 | 28°43 | 17° 8 | 1°44 | 17°21 | 29°54 | 1°12 | 3°16 | 20°37 | M28 |
| T 29 | 16 27 38 | 7°51'40 | 27°57 | 16°49 | 17°23 | 8°47 | 16° 8 | 28°43 | 17° 6 | 1°42 | 17°22 | 29°D54 | 1° 9 | 3°23 | 20°33 | T 29 |
| W30 | 16 31 34 | 8°49'05 | 11♑28 | 18°54 | 17°52 | 9°26 | 16°22 | 28°43 | 17° 4 | 1°41 | 17°23 | 29°54 | 1° 6 | 3°29 | 20°29 | W30 |
| T 31 | 16 35 31 | 9♊46'29 | 24♑36 | 20♊58 | 18♋20 | 10♓ 6 | 16♊36 | 28°D43 | 17♑ 3 | 1♑39 | 17♊25 | 29♐55 | 1♑ 3 | 3♈36 | 20♐25 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n 8 | 24s 5 | 0s59 | 5n37 | 2s30 | 26n55 | 3n30 | 16s29 | 1s41 | 21n34 | 0s25 | 2n36 | 2n36 | 22s45 | 0s26 | 22s21 | 1n 7 | 14n42 | 8s 9 | 23s29 | 23s27 | 4n49 | 17s21 | 5n55 |
| W 2 | 15 26 | 23 12 | 0n14 | 6 19 | 2 25 | 26 58 | 3 30 | 16 17 | 1 43 | 21 36 | 0 25 | 2 37 | 2 36 | 22 45 | 0 26 | 22 21 | 1 7 | 14 43 | 8 9 | 23 29 | 23 28 | 4 51 | 17 20 | 5 55 |
| T 3 | 15 44 | 21 3 | 1 24 | 7 1 | 2 20 | 26 59 | 3 31 | 16 6 | 1 44 | 21 38 | 0 25 | 2 38 | 2 36 | 22 45 | 0 26 | 22 21 | 1 7 | 14 43 | 8 9 | 23 29 | 23 28 | 4 54 | 17 19 | 5 56 |
| F 4 | 16 1 | 17 55 | 2 28 | 7 45 | 2 14 | 27 0 | 3 32 | 15 54 | 1 45 | 21 40 | 0 25 | 2 39 | 2 36 | 22 45 | 0 26 | 22 21 | 1 7 | 14 43 | 8 9 | 23 29 | 23 28 | 4 57 | 17 19 | 5 56 |
| S 5 | 16 18 | 14 2 | 3 22 | 8 29 | 2 8 | 27 1 | 3 32 | 15 41 | 1 47 | 21 42 | 0 24 | 2 40 | 2 36 | 22 45 | 0 26 | 22 21 | 1 7 | 14 43 | 8 9 | 23 29 | 23 28 | 4 59 | 17 18 | 5 57 |
| S 6 | 16 35 | 9 41 | 4 7 | 9 13 | 2 1 | 27 1 | 3 32 | 15 29 | 1 48 | 21 44 | 0 24 | 2 41 | 2 35 | 22 45 | 0 26 | 22 21 | 1 7 | 14 44 | 8 9 | 23 29 | 23 28 | 5 2 | 17 17 | 5 57 |
| M 7 | 16 52 | 5 1 | 4 40 | 9 59 | 1 54 | 27 0 | 3 32 | 15 17 | 1 50 | 21 46 | 0 24 | 2 41 | 2 35 | 22 45 | 0 26 | 22 21 | 1 7 | 14 44 | 8 8 | 23 29 | 23 28 | 5 5 | 17 17 | 5 58 |
| T 8 | 17 8 | 0 13 | 5 1 | 10 45 | 1 46 | 26 59 | 3 32 | 15 5 | 1 51 | 21 47 | 0 24 | 2 42 | 2 35 | 22 45 | 0 26 | 22 21 | 1 7 | 14 44 | 8 8 | 23 29 | 23 28 | 5 8 | 17 16 | 5 58 |
| W 9 | 17 24 | 4n35 | 5 9 | 11 31 | 1 38 | 26 58 | 3 32 | 14 52 | 1 53 | 21 49 | 0 24 | 2 43 | 2 35 | 22 46 | 0 26 | 22 21 | 1 7 | 14 44 | 8 8 | 23 29 | 23 28 | 5 10 | 17 15 | 5 59 |
| T 10 | 17 40 | 9 13 | 5 3 | 12 17 | 1 29 | 26 56 | 3 31 | 14 40 | 1 54 | 21 51 | 0 24 | 2 44 | 2 35 | 22 46 | 0 26 | 22 21 | 1 7 | 14 45 | 8 8 | 23 29 | 23 28 | 5 13 | 17 15 | 5 59 |
| F 11 | 17 56 | 13 33 | 4 44 | 13 4 | 1 20 | 26 53 | 3 30 | 14 27 | 1 56 | 21 53 | 0 24 | 2 44 | 2 34 | 22 46 | 0 26 | 22 21 | 1 7 | 14 45 | 8 8 | 23 29 | 23 28 | 5 16 | 17 14 | 6 0 |
| S 12 | 18 11 | 17 23 | 4 13 | 13 50 | 1 11 | 26 50 | 3 29 | 14 15 | 1 57 | 21 55 | 0 24 | 2 45 | 2 34 | 22 46 | 0 26 | 22 21 | 1 7 | 14 45 | 8 8 | 23 29 | 23 28 | 5 18 | 17 13 | 6 0 |
| S 13 | 18 26 | 20 32 | 3 29 | 14 37 | 1 1 | 26 47 | 3 28 | 14 2 | 1 59 | 21 57 | 0 23 | 2 45 | 2 34 | 22 46 | 0 26 | 22 21 | 1 7 | 14 45 | 8 8 | 23 29 | 23 28 | 5 21 | 17 13 | 6 1 |
| M14 | 18 40 | 22 46 | 2 35 | 15 23 | 0 51 | 26 43 | 3 27 | 13 49 | 2 0 | 21 59 | 0 23 | 2 46 | 2 34 | 22 46 | 0 26 | 22 21 | 1 7 | 14 46 | 8 8 | 23 29 | 23 28 | 5 24 | 17 12 | 6 1 |
| T 15 | 18 55 | 23 55 | 1 33 | 16 9 | 0 41 | 26 38 | 3 25 | 13 36 | 2 2 | 22 1 | 0 23 | 2 46 | 2 34 | 22 46 | 0 26 | 22 21 | 1 7 | 14 46 | 8 7 | 23 29 | 23 28 | 5 26 | 17 12 | 6 2 |
| W16 | 19 9 | 23 49 | 0 25 | 16 54 | 0 31 | 26 34 | 3 24 | 13 23 | 2 4 | 22 2 | 0 23 | 2 47 | 2 33 | 22 47 | 0 26 | 22 21 | 1 7 | 14 46 | 8 7 | 23 29 | 23 28 | 5 29 | 17 11 | 6 2 |
| T 17 | 19 22 | 22 26 | 0s46 | 17 39 | 0 20 | 26 28 | 3 22 | 13 10 | 2 5 | 22 4 | 0 23 | 2 47 | 2 33 | 22 47 | 0 26 | 22 21 | 1 7 | 14 46 | 8 7 | 23 29 | 23 28 | 5 32 | 17 10 | 6 2 |
| F 18 | 19 36 | 19 49 | 1 55 | 18 23 | 0 10 | 26 23 | 3 20 | 12 57 | 2 7 | 22 6 | 0 23 | 2 48 | 2 33 | 22 47 | 0 26 | 22 21 | 1 7 | 14 47 | 8 7 | 23 29 | 23 28 | 5 34 | 17 10 | 6 3 |
| S 19 | 19 49 | 16 5 | 3 0 | 19 5 | 0n 1 | 26 17 | 3 17 | 12 44 | 2 8 | 22 8 | 0 23 | 2 48 | 2 33 | 22 47 | 0 26 | 22 21 | 1 7 | 14 47 | 8 7 | 23 29 | 23 28 | 5 37 | 17 9 | 6 3 |
| S 20 | 20 1 | 11 27 | 3 55 | 19 46 | 0 11 | 26 10 | 3 14 | 12 31 | 2 10 | 22 9 | 0 23 | 2 48 | 2 33 | 22 47 | 0 26 | 22 21 | 1 7 | 14 47 | 8 7 | 23 29 | 23 28 | 5 40 | 17 8 | 6 4 |
| M21 | 20 14 | 6 8 | 4 38 | 20 25 | 0 22 | 26 4 | 3 12 | 12 18 | 2 11 | 22 11 | 0 23 | 2 48 | 2 32 | 22 48 | 0 26 | 22 21 | 1 7 | 14 47 | 8 7 | 23 29 | 23 28 | 5 42 | 17 8 | 6 4 |
| T 22 | 20 26 | 0 26 | 5 5 | 21 3 | 0 32 | 25 57 | 3 8 | 12 4 | 2 13 | 22 13 | 0 22 | 2 49 | 2 32 | 22 48 | 0 26 | 22 21 | 1 7 | 14 47 | 8 7 | 23 29 | 23 29 | 5 45 | 17 7 | 6 4 |
| W23 | 20 37 | 5s23 | 5 13 | 21 39 | 0 42 | 25 49 | 3 5 | 11 51 | 2 14 | 22 14 | 0 22 | 2 49 | 2 32 | 22 48 | 0 26 | 22 21 | 1 7 | 14 48 | 8 7 | 23 29 | 23 29 | 5 48 | 17 7 | 6 5 |
| T 24 | 20 49 | 10 58 | 5 1 | 22 12 | 0 52 | 25 41 | 3 1 | 11 38 | 2 16 | 22 16 | 0 22 | 2 49 | 2 32 | 22 48 | 0 26 | 22 21 | 1 7 | 14 48 | 8 7 | 23 29 | 23 29 | 5 50 | 17 6 | 6 5 |
| F 25 | 21 0 | 15 58 | 4 29 | 22 43 | 1 1 | 25 33 | 2 57 | 11 25 | 2 18 | 22 18 | 0 22 | 2 49 | 2 31 | 22 48 | 0 26 | 22 21 | 1 7 | 14 48 | 8 6 | 23 29 | 23 29 | 5 53 | 17 5 | 6 5 |
| S 26 | 21 10 | 19 59 | 3 40 | 23 12 | 1 10 | 25 25 | 2 53 | 11 11 | 2 19 | 22 19 | 0 22 | 2 49 | 2 31 | 22 49 | 0 26 | 22 21 | 1 7 | 14 48 | 8 6 | 23 29 | 23 29 | 5 56 | 17 5 | 6 6 |
| S 27 | 21 20 | 22 43 | 2 38 | 23 38 | 1 18 | 25 16 | 2 48 | 10 58 | 2 21 | 22 21 | 0 22 | 2 49 | 2 31 | 22 49 | 0 26 | 22 21 | 1 7 | 14 48 | 8 6 | 23 29 | 23 29 | 5 58 | 17 4 | 6 6 |
| M28 | 21 30 | 23 57 | 1 26 | 24 1 | 1 26 | 25 7 | 2 44 | 10 44 | 2 22 | 22 22 | 0 22 | 2 49 | 2 31 | 22 49 | 0 26 | 22 21 | 1 7 | 14 49 | 8 6 | 23 29 | 23 29 | 6 1 | 17 4 | 6 6 |
| T 29 | 21 40 | 23 39 | 0 11 | 24 22 | 1 33 | 24 58 | 2 39 | 10 31 | 2 24 | 22 24 | 0 22 | 2 49 | 2 31 | 22 49 | 0 26 | 22 21 | 1 7 | 14 49 | 8 6 | 23 29 | 23 29 | 6 4 | 17 3 | 6 6 |
| W30 | 21 49 | 21 56 | 1n 3 | 24 40 | 1 39 | 24 49 | 2 33 | 10 17 | 2 25 | 22 26 | 0 22 | 2 49 | 2 30 | 22 50 | 0 26 | 22 21 | 1 7 | 14 49 | 8 6 | 23 29 | 23 29 | 6 6 | 17 3 | 6 7 |
| T 31 | 21n57 | 19s 5 | 2n12 | 24n55 | 1n45 | 24n39 | 2n27 | 10s 4 | 2s27 | 22n27 | 0s22 | 2n48 | 2n30 | 22s50 | 0s26 | 22s21 | 1n 7 | 14n49 | 8s 6 | 23s29 | 23s29 | 6n 9 | 17s 2 | 6n 7 |

Julian Day Number = 2326387.5, Delta T = 38.22 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'26, Lahiri = 19°04'27Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## JUNE 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 39 27 | 10♊43'52 | 7♒23 | 23♊ 0 | 18♋47 | 10♓45 | 16♊50 | 28♍43 | 17°R 1 | 1°R38 | 17♊26 | 29♐57 | 1♑ 0 | 3♈43 | 20°R21 | F 1 |
| S 2 | 16 43 24 | 11°41'15 | 19°50 | 24°59 | 19°11 | 11°25 | 17° 3 | 28°43 | 16♑59 | 1♑36 | 17°28 | 29°58 | 0°56 | 3°50 | 20♐17 | S 2 |
| S 3 | 16 47 21 | 12°38'36 | 2♓ 2 | 26°56 | 19°35 | 12° 4 | 17°17 | 28°43 | 16°57 | 1°35 | 17°29 | 29°59 | 0°53 | 3°56 | 20°13 | S 3 |
| M 4 | 16 51 17 | 13°35'58 | 14° 3 | 28°51 | 19°56 | 12°43 | 17°31 | 28°43 | 16°55 | 1°33 | 17°30 | 29°R59 | 0°50 | 4° 3 | 20° 9 | M 4 |
| T 5 | 16 55 14 | 14°33'18 | 25°58 | 0♋44 | 20°16 | 13°22 | 17°45 | 28°44 | 16°54 | 1°32 | 17°32 | 29°59 | 0°47 | 4°10 | 20° 5 | T 5 |
| W 6 | 16 59 10 | 15°30'38 | 7♈51 | 2°34 | 20°33 | 14° 1 | 17°59 | 28°44 | 16°52 | 1°30 | 17°33 | 29°58 | 0°44 | 4°17 | 20° 0 | W 6 |
| T 7 | 17 3 7 | 16°27'58 | 19°46 | 4°22 | 20°49 | 14°39 | 18°12 | 28°45 | 16°50 | 1°29 | 17°35 | 29°56 | 0°41 | 4°23 | 19°56 | T 7 |
| F 8 | 17 7 3 | 17°25'17 | 1♉48 | 6° 7 | 21° 3 | 15°18 | 18°26 | 28°46 | 16°48 | 1°27 | 17°36 | 29°55 | 0°37 | 4°30 | 19°52 | F 8 |
| S 9 | 17 11 0 | 18°22'36 | 14° 0 | 7°50 | 21°15 | 15°56 | 18°40 | 28°47 | 16°46 | 1°26 | 17°38 | 29°53 | 0°34 | 4°37 | 19°48 | S 9 |
| S 10 | 17 14 56 | 19°19'55 | 26°23 | 9°31 | 21°24 | 16°35 | 18°54 | 28°47 | 16°44 | 1°24 | 17°39 | 29°51 | 0°31 | 4°43 | 19°44 | S 10 |
| M11 | 17 18 53 | 20°17'13 | 9♊ 1 | 11° 9 | 21°32 | 17°13 | 19° 8 | 28°49 | 16°42 | 1°23 | 17°40 | 29°50 | 0°28 | 4°50 | 19°40 | M11 |
| T 12 | 17 22 50 | 21°14'30 | 21°54 | 12°44 | 21°37 | 17°51 | 19°22 | 28°50 | 16°40 | 1°21 | 17°42 | 29°50 | 0°25 | 4°57 | 19°36 | T 12 |
| W13 | 17 26 46 | 22°11'47 | 5♋ 1 | 14°17 | 21°41 | 18°29 | 19°35 | 28°51 | 16°37 | 1°19 | 17°43 | 29°D50 | 0°21 | 5° 4 | 19°32 | W13 |
| T 14 | 17 30 43 | 23° 9'04 | 18°23 | 15°47 | 21°R41 | 19° 7 | 19°49 | 28°52 | 16°35 | 1°18 | 17°45 | 29°50 | 0°18 | 5°10 | 19°28 | T 14 |
| F 15 | 17 34 39 | 24° 6'19 | 1♌58 | 17°15 | 21°40 | 19°44 | 20° 3 | 28°54 | 16°33 | 1°16 | 17°46 | 29°51 | 0°15 | 5°17 | 19°24 | F 15 |
| S 16 | 17 38 36 | 25° 3'34 | 15°46 | 18°40 | 21°36 | 20°22 | 20°17 | 28°55 | 16°31 | 1°15 | 17°47 | 29°51 | 0°12 | 5°24 | 19°19 | S 16 |
| S 17 | 17 42 32 | 26° 0'49 | 29°43 | 20° 3 | 21°30 | 20°59 | 20°30 | 28°57 | 16°29 | 1°13 | 17°49 | 29°52 | 0° 9 | 5°31 | 19°15 | S 17 |
| M18 | 17 46 29 | 26°58'02 | 13♍49 | 21°22 | 21°21 | 21°36 | 20°44 | 28°59 | 16°27 | 1°11 | 17°50 | 29°52 | 0° 6 | 5°37 | 19°11 | M18 |
| T 19 | 17 50 25 | 27°55'15 | 28° 1 | 22°39 | 21°10 | 22°13 | 20°58 | 29° 0 | 16°24 | 1°10 | 17°52 | 29°R52 | 0° 2 | 5°44 | 19° 7 | T 19 |
| W20 | 17 54 22 | 28°52'28 | 12♎17 | 23°54 | 20°57 | 22°50 | 21°12 | 29° 2 | 16°22 | 1° 8 | 17°53 | 29°52 | 29♐59 | 5°51 | 19° 3 | W20 |
| T 21 | 17 58 19 | 29°49'40 | 26°33 | 25° 5 | 20°41 | 23°27 | 21°25 | 29° 4 | 16°20 | 1° 6 | 17°54 | 29°D52 | 29°56 | 5°57 | 18°59 | T 21 |
| F 22 | 18 2 15 | 0♋46'51 | 10♏48 | 26°14 | 20°22 | 24° 3 | 21°39 | 29° 6 | 16°17 | 1° 5 | 17°56 | 29°52 | 29°53 | 6° 4 | 18°55 | F 22 |
| S 23 | 18 6 12 | 1°44'02 | 24°58 | 27°19 | 20° 2 | 24°40 | 21°53 | 29° 9 | 16°15 | 1° 3 | 17°57 | 29°52 | 29°50 | 6°11 | 18°51 | S 23 |
| S 24 | 18 10 8 | 2°41'12 | 8♐58 | 28°22 | 19°39 | 25°16 | 22° 7 | 29°11 | 16°13 | 1° 2 | 17°59 | 29°52 | 29°47 | 6°18 | 18°47 | S 24 |
| M25 | 18 14 5 | 3°38'23 | 22°47 | 29°21 | 19°14 | 25°52 | 22°20 | 29°13 | 16°11 | 1° 0 | 18° 0 | 29°52 | 29°43 | 6°24 | 18°44 | M25 |
| T 26 | 18 18 1 | 4°35'33 | 6♑21 | 0♌17 | 18°47 | 26°28 | 22°34 | 29°16 | 16° 8 | 0°58 | 18° 1 | 29°R52 | 29°40 | 6°31 | 18°40 | T 26 |
| W27 | 18 21 58 | 5°32'43 | 19°38 | 1°10 | 18°19 | 27° 3 | 22°47 | 29°18 | 16° 6 | 0°57 | 18° 3 | 29°52 | 29°37 | 6°38 | 18°36 | W27 |
| T 28 | 18 25 55 | 6°29'53 | 2♒37 | 1°59 | 17°48 | 27°38 | 23° 1 | 29°21 | 16° 3 | 0°55 | 18° 4 | 29°51 | 29°34 | 6°44 | 18°32 | T 28 |
| F 29 | 18 29 51 | 7°27'03 | 15°19 | 2°45 | 17°16 | 28°14 | 23°15 | 29°24 | 16° 1 | 0°54 | 18° 5 | 29°51 | 29°31 | 6°51 | 18°28 | F 29 |
| S 30 | 18 33 48 | 8♋24'14 | 27♒45 | 3♌27 | 16♋42 | 28♓49 | 23♊28 | 29♍27 | 15♑59 | 0♑52 | 18♊ 7 | 29♐50 | 29♐27 | 6♈58 | 18♐25 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 22n 6 | 15s22 | 3n12 | 25n 7 | 1n50 | 24n30 | 2n21 | 9s50 | 2s29 | 22n28 | 0s21 | 2n48 | 2n30 | 22s50 | 0s26 | 22s21 | 1n 7 | 14n49 | 8s 6 | 23s29 | 23s29 | 6n12 | 17s 2 | 6n 7 |
| S 2 | 22 14 | 11 4 | 4 2 | 25 17 | 1 54 | 24 20 | 2 15 | 9 37 | 2 30 | 22 30 | 0 21 | 2 48 | 2 30 | 22 50 | 0 26 | 22 21 | 1 7 | 14 50 | 8 6 | 23 29 | 23 29 | 6 14 | 17 1 | 6 7 |
| S 3 | 22 21 | 6 25 | 4 39 | 25 24 | 1 57 | 24 10 | 2 8 | 9 23 | 2 32 | 22 31 | 0 21 | 2 48 | 2 29 | 22 51 | 0 26 | 22 21 | 1 7 | 14 50 | 8 6 | 23 29 | 23 29 | 6 17 | 17 1 | 6 8 |
| M 4 | 22 28 | 1 37 | 5 4 | 25 29 | 2 0 | 23 59 | 2 1 | 9 10 | 2 33 | 22 33 | 0 21 | 2 47 | 2 29 | 22 51 | 0 26 | 22 21 | 1 7 | 14 50 | 8 6 | 23 29 | 23 29 | 6 20 | 17 0 | 6 8 |
| T 5 | 22 35 | 3n13 | 5 15 | 25 31 | 2 2 | 23 49 | 1 53 | 8 56 | 2 35 | 22 34 | 0 21 | 2 47 | 2 29 | 22 51 | 0 26 | 22 21 | 1 7 | 14 50 | 8 6 | 23 29 | 23 29 | 6 22 | 17 0 | 6 8 |
| W 6 | 22 42 | 7 54 | 5 13 | 25 31 | 2 3 | 23 39 | 1 45 | 8 42 | 2 37 | 22 35 | 0 21 | 2 47 | 2 29 | 22 51 | 0 26 | 22 21 | 1 7 | 14 50 | 8 6 | 23 29 | 23 29 | 6 25 | 16 59 | 6 8 |
| T 7 | 22 48 | 12 19 | 4 57 | 25 29 | 2 4 | 23 28 | 1 37 | 8 29 | 2 38 | 22 37 | 0 21 | 2 46 | 2 29 | 22 52 | 0 26 | 22 21 | 1 7 | 14 51 | 8 6 | 23 29 | 23 29 | 6 27 | 16 59 | 6 9 |
| F 8 | 22 53 | 16 19 | 4 28 | 25 24 | 2 4 | 23 17 | 1 28 | 8 15 | 2 40 | 22 38 | 0 21 | 2 46 | 2 28 | 22 52 | 0 26 | 22 21 | 1 7 | 14 51 | 8 6 | 23 29 | 23 29 | 6 30 | 16 58 | 6 9 |
| S 9 | 22 58 | 19 41 | 3 47 | 25 18 | 2 3 | 23 6 | 1 19 | 8 2 | 2 41 | 22 39 | 0 21 | 2 45 | 2 28 | 22 52 | 0 27 | 22 21 | 1 7 | 14 51 | 8 6 | 23 29 | 23 29 | 6 33 | 16 58 | 6 9 |
| S 10 | 23 3 | 22 13 | 2 55 | 25 9 | 2 1 | 22 56 | 1 10 | 7 48 | 2 43 | 22 41 | 0 21 | 2 44 | 2 28 | 22 52 | 0 27 | 22 21 | 1 7 | 14 51 | 8 5 | 23 29 | 23 29 | 6 35 | 16 57 | 6 9 |
| M11 | 23 8 | 23 42 | 1 53 | 24 59 | 1 59 | 22 45 | 1 0 | 7 35 | 2 45 | 22 42 | 0 20 | 2 44 | 2 28 | 22 53 | 0 27 | 22 21 | 1 7 | 14 51 | 8 5 | 23 29 | 23 29 | 6 38 | 16 57 | 6 9 |
| T 12 | 23 12 | 23 58 | 0 44 | 24 47 | 1 55 | 22 34 | 0 50 | 7 21 | 2 46 | 22 43 | 0 20 | 2 43 | 2 27 | 22 53 | 0 27 | 22 21 | 1 7 | 14 51 | 8 5 | 23 29 | 23 29 | 6 40 | 16 56 | 6 9 |
| W13 | 23 15 | 22 55 | 0s29 | 24 34 | 1 52 | 22 23 | 0 39 | 7 8 | 2 48 | 22 44 | 0 20 | 2 43 | 2 27 | 22 53 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 6 43 | 16 56 | 6 9 |
| T 14 | 23 18 | 20 33 | 1 41 | 24 19 | 1 47 | 22 12 | 0 28 | 6 55 | 2 49 | 22 45 | 0 20 | 2 42 | 2 27 | 22 53 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 6 46 | 16 55 | 6 10 |
| F 15 | 23 21 | 17 1 | 2 49 | 24 3 | 1 42 | 22 1 | 0 17 | 6 41 | 2 51 | 22 47 | 0 20 | 2 41 | 2 27 | 22 54 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 6 48 | 16 55 | 6 10 |
| S 16 | 23 23 | 12 31 | 3 48 | 23 46 | 1 36 | 21 50 | 0 5 | 6 28 | 2 53 | 22 48 | 0 20 | 2 40 | 2 26 | 22 54 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 6 51 | 16 55 | 6 10 |
| S 17 | 23 25 | 7 19 | 4 34 | 23 28 | 1 30 | 21 39 | 0s 7 | 6 15 | 2 54 | 22 49 | 0 20 | 2 39 | 2 26 | 22 54 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 6 54 | 16 54 | 6 10 |
| M18 | 23 27 | 1 41 | 5 5 | 23 8 | 1 23 | 21 28 | 0 19 | 6 1 | 2 56 | 22 50 | 0 20 | 2 38 | 2 26 | 22 55 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 6 56 | 16 54 | 6 10 |
| T 19 | 23 28 | 4s 3 | 5 17 | 22 48 | 1 15 | 21 17 | 0 32 | 5 48 | 2 57 | 22 51 | 0 20 | 2 37 | 2 26 | 22 55 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 6 59 | 16 54 | 6 10 |
| W20 | 23 29 | 9 36 | 5 9 | 22 28 | 1 7 | 21 7 | 0 45 | 5 35 | 2 59 | 22 52 | 0 20 | 2 37 | 2 26 | 22 55 | 0 27 | 22 21 | 1 7 | 14 52 | 8 5 | 23 29 | 23 29 | 7 1 | 16 53 | 6 10 |
| T 21 | 23 29 | 14 39 | 4 43 | 22 6 | 0 58 | 20 56 | 0 58 | 5 22 | 3 1 | 22 53 | 0 20 | 2 35 | 2 25 | 22 56 | 0 27 | 22 21 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 4 | 16 53 | 6 10 |
| F 22 | 23 29 | 18 53 | 4 0 | 21 44 | 0 48 | 20 45 | 1 12 | 5 9 | 3 2 | 22 54 | 0 19 | 2 34 | 2 25 | 22 56 | 0 27 | 22 21 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 6 | 16 53 | 6 10 |
| S 23 | 23 28 | 21 59 | 3 2 | 21 22 | 0 38 | 20 35 | 1 25 | 4 56 | 3 4 | 22 55 | 0 19 | 2 33 | 2 25 | 22 56 | 0 27 | 22 22 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 9 | 16 52 | 6 10 |
| S 24 | 23 27 | 23 42 | 1 53 | 20 59 | 0 28 | 20 24 | 1 39 | 4 43 | 3 5 | 22 56 | 0 19 | 2 32 | 2 25 | 22 56 | 0 27 | 22 22 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 12 | 16 52 | 6 10 |
| M25 | 23 26 | 23 56 | 0 39 | 20 36 | 0 17 | 20 14 | 1 54 | 4 30 | 3 7 | 22 56 | 0 19 | 2 31 | 2 24 | 22 57 | 0 27 | 22 22 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 14 | 16 52 | 6 10 |
| T 26 | 23 24 | 22 44 | 0n36 | 20 13 | 0 5 | 20 3 | 2 8 | 4 17 | 3 8 | 22 57 | 0 19 | 2 30 | 2 24 | 22 57 | 0 27 | 22 22 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 17 | 16 51 | 6 10 |
| W27 | 23 22 | 20 16 | 1 47 | 19 50 | 0s 7 | 19 53 | 2 22 | 4 5 | 3 10 | 22 58 | 0 19 | 2 29 | 2 24 | 22 57 | 0 27 | 22 22 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 19 | 16 51 | 6 10 |
| T 28 | 23 19 | 16 50 | 2 52 | 19 27 | 0 19 | 19 43 | 2 36 | 3 52 | 3 12 | 22 59 | 0 19 | 2 27 | 2 24 | 22 58 | 0 27 | 22 22 | 1 7 | 14 53 | 8 5 | 23 29 | 23 29 | 7 22 | 16 51 | 6 10 |
| F 29 | 23 16 | 12 40 | 3 46 | 19 4 | 0 32 | 19 33 | 2 50 | 3 40 | 3 13 | 23 0 | 0 19 | 2 26 | 2 24 | 22 58 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 25 | 16 51 | 6 10 |
| S 30 | 23n13 | 8s 5 | 4n28 | 18n41 | 0s45 | 19n23 | 3s 4 | 3s27 | 3s15 | 23n 1 | 0s19 | 2n25 | 2n23 | 22s58 | 0s27 | 22s22 | 1n 7 | 14n54 | 8s 5 | 23s29 | 23s29 | 7n27 | 16s50 | 6n10 |

Julian Day Number = 2326418.5, Delta T = 38.16 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'31, Lahiri = 19°04'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## JULY 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 37 44 | 9♋21'24 | 9♓57 | 4♌ 6 | 16°R 8 | 29♓23 | 23♊42 | 29♍30 | 15°R56 | 0°R50 | 18♊ 8 | 29°R48 | 29♐24 | 7♈ 5 | 18°R21 | S 1 |
| M 2 | 18 41 41 | 10°18'35 | 21°59 | 4°40 | 15♋32 | 29°58 | 23°55 | 29°33 | 15♑54 | 0♑49 | 18° 9 | 29♐48 | 29°21 | 7°11 | 18♐17 | M 2 |
| T 3 | 18 45 37 | 11°15'46 | 3♈55 | 5°10 | 14°55 | 0♈32 | 24° 9 | 29°36 | 15°52 | 0°47 | 18°11 | 29°47 | 29°18 | 7°18 | 18°14 | T 3 |
| W 4 | 18 49 34 | 12°12'57 | 15°48 | 5°36 | 14°18 | 1° 6 | 24°22 | 29°39 | 15°49 | 0°46 | 18°12 | 29°D47 | 29°15 | 7°25 | 18°10 | W 4 |
| T 5 | 18 53 30 | 13°10'09 | 27°44 | 5°58 | 13°41 | 1°40 | 24°35 | 29°42 | 15°47 | 0°44 | 18°13 | 29°47 | 29°12 | 7°32 | 18° 7 | T 5 |
| F 6 | 18 57 27 | 14° 7'22 | 9♉47 | 6°15 | 13° 3 | 2°13 | 24°49 | 29°46 | 15°44 | 0°42 | 18°15 | 29°48 | 29° 8 | 7°38 | 18° 3 | F 6 |
| S 7 | 19 1 24 | 15° 4'35 | 22° 1 | 6°28 | 12°26 | 2°47 | 25° 2 | 29°49 | 15°42 | 0°41 | 18°16 | 29°49 | 29° 5 | 7°45 | 18° 0 | S 7 |
| S 8 | 19 5 20 | 16° 1'48 | 4♊31 | 6°36 | 11°49 | 3°20 | 25°15 | 29°53 | 15°39 | 0°39 | 18°17 | 29°51 | 29° 2 | 7°52 | 17°57 | S 8 |
| M 9 | 19 9 17 | 16°59'02 | 17°19 | 6°R39 | 11°13 | 3°52 | 25°29 | 29°56 | 15°37 | 0°38 | 18°18 | 29°52 | 28°59 | 7°58 | 17°53 | M 9 |
| T 10 | 19 13 13 | 17°56'17 | 0♋26 | 6°38 | 10°38 | 4°25 | 25°42 | 0♎ 0 | 15°35 | 0°36 | 18°20 | 29°R52 | 28°56 | 8° 5 | 17°50 | T 10 |
| W11 | 19 17 10 | 18°53'32 | 13°53 | 6°31 | 10° 3 | 4°57 | 25°55 | 0° 4 | 15°32 | 0°35 | 18°21 | 29°52 | 28°53 | 8°12 | 17°47 | W11 |
| T 12 | 19 21 6 | 19°50'47 | 27°40 | 6°20 | 9°30 | 5°29 | 26° 8 | 0° 8 | 15°30 | 0°33 | 18°22 | 29°50 | 28°49 | 8°19 | 17°44 | T 12 |
| F 13 | 19 25 3 | 20°48'03 | 11♌42 | 6° 4 | 8°58 | 6° 0 | 26°22 | 0°12 | 15°27 | 0°32 | 18°23 | 29°48 | 28°46 | 8°25 | 17°41 | F 13 |
| S 14 | 19 28 59 | 21°45'19 | 25°57 | 5°44 | 8°28 | 6°31 | 26°35 | 0°16 | 15°25 | 0°30 | 18°25 | 29°45 | 28°43 | 8°32 | 17°38 | S 14 |
| S 15 | 19 32 56 | 22°42'35 | 10♍19 | 5°19 | 8° 0 | 7° 2 | 26°48 | 0°20 | 15°23 | 0°29 | 18°26 | 29°42 | 28°40 | 8°39 | 17°35 | S 15 |
| M16 | 19 36 53 | 23°39'52 | 24°43 | 4°50 | 7°34 | 7°33 | 27° 1 | 0°24 | 15°20 | 0°27 | 18°27 | 29°39 | 28°37 | 8°46 | 17°32 | M16 |
| T 17 | 19 40 49 | 24°37'09 | 9♎ 4 | 4°17 | 7° 9 | 8° 3 | 27°14 | 0°28 | 15°18 | 0°26 | 18°28 | 29°38 | 28°33 | 8°52 | 17°29 | T 17 |
| W18 | 19 44 46 | 25°34'26 | 23°20 | 3°41 | 6°47 | 8°33 | 27°27 | 0°33 | 15°15 | 0°24 | 18°29 | 29°D37 | 28°30 | 8°59 | 17°26 | W18 |
| T 19 | 19 48 42 | 26°31'43 | 7♏28 | 3° 2 | 6°27 | 9° 2 | 27°39 | 0°37 | 15°13 | 0°23 | 18°30 | 29°37 | 28°27 | 9° 6 | 17°24 | T 19 |
| F 20 | 19 52 39 | 27°29'01 | 21°25 | 2°21 | 6° 9 | 9°31 | 27°52 | 0°42 | 15°11 | 0°22 | 18°32 | 29°38 | 28°24 | 9°12 | 17°21 | F 20 |
| S 21 | 19 56 35 | 28°26'20 | 5♐11 | 1°38 | 5°54 | 10° 0 | 28° 5 | 0°46 | 15° 8 | 0°20 | 18°33 | 29°40 | 28°21 | 9°19 | 17°19 | S 21 |
| S 22 | 20 0 32 | 29°23'39 | 18°46 | 0°55 | 5°41 | 10°29 | 28°18 | 0°51 | 15° 6 | 0°19 | 18°34 | 29°41 | 28°18 | 9°26 | 17°16 | S 22 |
| M23 | 20 4 28 | 0♌20'58 | 2♑ 9 | 0°11 | 5°30 | 10°57 | 28°30 | 0°56 | 15° 4 | 0°17 | 18°35 | 29°R41 | 28°14 | 9°33 | 17°14 | M23 |
| T 24 | 20 8 25 | 1°18'18 | 15°19 | 29♋28 | 5°22 | 11°24 | 28°43 | 1° 1 | 15° 2 | 0°16 | 18°36 | 29°40 | 28°11 | 9°39 | 17°11 | T 24 |
| W25 | 20 12 22 | 2°15'39 | 28°17 | 28°47 | 5°16 | 11°52 | 28°56 | 1° 5 | 14°59 | 0°15 | 18°37 | 29°38 | 28° 8 | 9°46 | 17° 9 | W25 |
| T 26 | 20 16 18 | 3°13'00 | 11♒ 1 | 28° 8 | 5°12 | 12°18 | 29° 8 | 1°10 | 14°57 | 0°13 | 18°38 | 29°34 | 28° 5 | 9°53 | 17° 7 | T 26 |
| F 27 | 20 20 15 | 4°10'23 | 23°33 | 27°32 | 5°D11 | 12°45 | 29°20 | 1°15 | 14°55 | 0°12 | 18°39 | 29°28 | 28° 2 | 9°59 | 17° 5 | F 27 |
| S 28 | 20 24 11 | 5° 7'46 | 5♓52 | 27° 0 | 5°12 | 13°11 | 29°33 | 1°21 | 14°53 | 0°11 | 18°40 | 29°22 | 27°58 | 10° 6 | 17° 3 | S 28 |
| S 29 | 20 28 8 | 6° 5'10 | 18° 1 | 26°32 | 5°16 | 13°36 | 29°45 | 1°26 | 14°50 | 0°10 | 18°41 | 29°16 | 27°55 | 10°13 | 17° 1 | S 29 |
| M30 | 20 32 4 | 7° 2'36 | 0♈ 1 | 26° 9 | 5°22 | 14° 1 | 29°57 | 1°31 | 14°48 | 0° 8 | 18°42 | 29°11 | 27°52 | 10°20 | 16°59 | M30 |
| T 31 | 20 36 1 | 8♌ 0'02 | 11♈55 | 25♋51 | 5♋29 | 14♈26 | 0♋10 | 1♎36 | 14♑46 | 0♑ 7 | 18♊43 | 29♐ 6 | 27♐49 | 10♈26 | 16♐57 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 9 | 3s15 | 4n58 | 18n19 | 0s59 | 19n14 | 3s18 | 3s15 | 3s16 | 23n 1 | 0s19 | 2n23 | 2n23 | 22s58 | 0s27 | 22s22 | 1n 7 | 14n54 | 8s 5 | 23s29 | 23s29 | 7n30 | 16s50 | 6n10 |
| M 2 | 23 5 | 1n37 | 5 13 | 17 57 | 1 13 | 19 4 | 3 32 | 3 2 | 3 18 | 23 2 | 0 19 | 2 22 | 2 23 | 22 59 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 32 | 16 50 | 6 9 |
| T 3 | 23 0 | 6 23 | 5 15 | 17 36 | 1 27 | 18 55 | 3 45 | 2 50 | 3 19 | 23 3 | 0 19 | 2 21 | 2 23 | 22 59 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 35 | 16 50 | 6 9 |
| W 4 | 22 55 | 10 54 | 5 4 | 17 16 | 1 41 | 18 46 | 3 58 | 2 38 | 3 21 | 23 3 | 0 18 | 2 19 | 2 22 | 22 59 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 37 | 16 50 | 6 9 |
| T 5 | 22 50 | 15 2 | 4 39 | 16 57 | 1 56 | 18 37 | 4 11 | 2 26 | 3 23 | 23 4 | 0 18 | 2 18 | 2 22 | 23 0 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 40 | 16 49 | 6 9 |
| F 6 | 22 44 | 18 36 | 4 3 | 16 38 | 2 11 | 18 29 | 4 23 | 2 14 | 3 24 | 23 5 | 0 18 | 2 16 | 2 22 | 23 0 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 42 | 16 49 | 6 9 |
| S 7 | 22 38 | 21 26 | 3 14 | 16 21 | 2 25 | 18 20 | 4 35 | 2 2 | 3 26 | 23 5 | 0 18 | 2 14 | 2 22 | 23 0 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 45 | 16 49 | 6 9 |
| S 8 | 22 31 | 23 18 | 2 15 | 16 5 | 2 40 | 18 13 | 4 46 | 1 51 | 3 27 | 23 6 | 0 18 | 2 13 | 2 22 | 23 1 | 0 27 | 22 22 | 1 7 | 14 54 | 8 5 | 23 29 | 23 29 | 7 48 | 16 49 | 6 9 |
| M 9 | 22 24 | 24 1 | 1 9 | 15 50 | 2 54 | 18 5 | 4 56 | 1 39 | 3 29 | 23 6 | 0 18 | 2 11 | 2 21 | 23 1 | 0 27 | 22 22 | 1 7 | 14 54 | 8 6 | 23 29 | 23 29 | 7 50 | 16 49 | 6 8 |
| T 10 | 22 17 | 23 26 | 0s 3 | 15 36 | 3 9 | 17 58 | 5 6 | 1 28 | 3 30 | 23 7 | 0 18 | 2 10 | 2 21 | 23 1 | 0 27 | 22 22 | 1 7 | 14 54 | 8 6 | 23 29 | 23 29 | 7 53 | 16 49 | 6 8 |
| W11 | 22 9 | 21 29 | 1 17 | 15 24 | 3 23 | 17 51 | 5 16 | 1 16 | 3 32 | 23 7 | 0 18 | 2 8 | 2 21 | 23 1 | 0 27 | 22 22 | 1 7 | 14 54 | 8 6 | 23 29 | 23 29 | 7 55 | 16 49 | 6 8 |
| T 12 | 22 1 | 18 16 | 2 27 | 15 14 | 3 36 | 17 45 | 5 24 | 1 5 | 3 33 | 23 8 | 0 18 | 2 6 | 2 21 | 23 2 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 29 | 7 58 | 16 49 | 6 8 |
| F 13 | 21 52 | 13 56 | 3 30 | 15 5 | 3 49 | 17 39 | 5 32 | 0 54 | 3 35 | 23 8 | 0 18 | 2 4 | 2 21 | 23 2 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 29 | 8 0 | 16 48 | 6 8 |
| S 14 | 21 43 | 8 48 | 4 21 | 14 58 | 4 1 | 17 34 | 5 40 | 0 43 | 3 36 | 23 9 | 0 18 | 2 3 | 2 20 | 23 2 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 29 | 8 3 | 16 48 | 6 8 |
| S 15 | 21 34 | 3 9 | 4 56 | 14 53 | 4 13 | 17 29 | 5 46 | 0 32 | 3 38 | 23 9 | 0 18 | 2 1 | 2 20 | 23 3 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 29 | 8 5 | 16 48 | 6 7 |
| M16 | 21 24 | 2s41 | 5 13 | 14 50 | 4 23 | 17 24 | 5 52 | 0 21 | 3 39 | 23 9 | 0 18 | 1 59 | 2 20 | 23 3 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 29 | 8 8 | 16 48 | 6 7 |
| T 17 | 21 14 | 8 20 | 5 10 | 14 49 | 4 32 | 17 20 | 5 58 | 0 11 | 3 41 | 23 10 | 0 17 | 1 57 | 2 20 | 23 3 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 29 | 8 10 | 16 48 | 6 7 |
| W18 | 21 4 | 13 32 | 4 47 | 14 50 | 4 40 | 17 17 | 6 2 | 0 1 | 3 42 | 23 10 | 0 17 | 1 55 | 2 20 | 23 3 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 29 | 8 13 | 16 48 | 6 7 |
| T 19 | 20 53 | 17 56 | 4 8 | 14 52 | 4 46 | 17 14 | 6 6 | 0n10 | 3 44 | 23 10 | 0 17 | 1 53 | 2 20 | 23 4 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 28 | 8 15 | 16 48 | 6 6 |
| F 20 | 20 42 | 21 17 | 3 14 | 14 56 | 4 51 | 17 11 | 6 9 | 0 20 | 3 45 | 23 11 | 0 17 | 1 51 | 2 19 | 23 4 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 28 | 8 18 | 16 48 | 6 6 |
| S 21 | 20 31 | 23 20 | 2 10 | 15 3 | 4 54 | 17 9 | 6 12 | 0 30 | 3 47 | 23 11 | 0 17 | 1 49 | 2 19 | 23 4 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 28 | 8 20 | 16 48 | 6 6 |
| S 22 | 20 19 | 24 0 | 0 59 | 15 10 | 4 56 | 17 8 | 6 14 | 0 40 | 3 48 | 23 11 | 0 17 | 1 47 | 2 19 | 23 4 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 28 | 8 23 | 16 48 | 6 6 |
| M23 | 20 7 | 23 15 | 0n13 | 15 20 | 4 56 | 17 7 | 6 16 | 0 49 | 3 49 | 23 12 | 0 17 | 1 45 | 2 19 | 23 5 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 28 | 8 25 | 16 48 | 6 5 |
| T 24 | 19 54 | 21 12 | 1 24 | 15 31 | 4 54 | 17 6 | 6 17 | 0 59 | 3 51 | 23 12 | 0 17 | 1 43 | 2 19 | 23 5 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 28 | 8 28 | 16 49 | 6 5 |
| W25 | 19 42 | 18 6 | 2 30 | 15 43 | 4 50 | 17 6 | 6 17 | 1 8 | 3 52 | 23 12 | 0 17 | 1 41 | 2 18 | 23 5 | 0 27 | 22 22 | 1 7 | 14 55 | 8 6 | 23 29 | 23 28 | 8 30 | 16 49 | 6 5 |
| T 26 | 19 28 | 14 11 | 3 26 | 15 56 | 4 44 | 17 6 | 6 17 | 1 17 | 3 54 | 23 12 | 0 17 | 1 39 | 2 18 | 23 5 | 0 27 | 22 22 | 1 7 | 14 55 | 8 7 | 23 29 | 23 28 | 8 33 | 16 49 | 6 4 |
| F 27 | 19 15 | 9 44 | 4 12 | 16 10 | 4 37 | 17 6 | 6 17 | 1 26 | 3 55 | 23 12 | 0 17 | 1 37 | 2 18 | 23 6 | 0 27 | 22 22 | 1 7 | 14 55 | 8 7 | 23 29 | 23 28 | 8 35 | 16 49 | 6 4 |
| S 28 | 19 1 | 4 58 | 4 45 | 16 24 | 4 28 | 17 7 | 6 16 | 1 35 | 3 56 | 23 12 | 0 17 | 1 34 | 2 18 | 23 6 | 0 27 | 22 22 | 1 7 | 14 55 | 8 7 | 23 29 | 23 28 | 8 38 | 16 49 | 6 4 |
| S 29 | 18 47 | 0 5 | 5 4 | 16 40 | 4 18 | 17 8 | 6 15 | 1 44 | 3 58 | 23 12 | 0 17 | 1 32 | 2 18 | 23 6 | 0 27 | 22 23 | 1 6 | 14 55 | 8 7 | 23 29 | 23 28 | 8 40 | 16 49 | 6 3 |
| M30 | 18 33 | 4n45 | 5 10 | 16 55 | 4 7 | 17 10 | 6 13 | 1 52 | 3 59 | 23 13 | 0 16 | 1 30 | 2 18 | 23 6 | 0 27 | 22 23 | 1 6 | 14 55 | 8 7 | 23 29 | 23 28 | 8 43 | 16 49 | 6 3 |
| T 31 | 18n18 | 9n21 | 5n 2 | 17n11 | 3s54 | 17n11 | 6s11 | 2n 1 | 4s 0 | 23n13 | 0s16 | 1n28 | 2n17 | 23s 7 | 0s27 | 22s23 | 1n 6 | 14n55 | 8s 7 | 23s29 | 23s28 | 8n45 | 16s49 | 6n 3 |

Julian Day Number = 2326448.5, Delta T = 38.10 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'35, Lahiri = 19°04'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## AUGUST 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 39 57 | 8♌57'30 | 23♈47 | 25°R40 | 5♋39 | 14♈50 | 0♋22 | 1♎42 | 14°R44 | 0°R 6 | 18♊44 | 29°R 3 | 27♐46 | 10♈33 | 16°R56 | W 1 |
| T 2 | 20 43 54 | 9°55'00 | 5♉42 | 25°D34 | 5°52 | 15°14 | 0°34 | 1°47 | 14♑42 | 0♑ 5 | 18°45 | 29°D 2 | 27°43 | 10°40 | 16♐54 | T 2 |
| F 3 | 20 47 51 | 10°52'30 | 17°43 | 25♋35 | 6° 6 | 15°37 | 0°46 | 1°52 | 14°40 | 0° 4 | 18°46 | 29♐ 2 | 27°39 | 10°46 | 16°53 | F 3 |
| S 4 | 20 51 47 | 11°50'02 | 29°56 | 25°43 | 6°22 | 15°59 | 0°58 | 1°58 | 14°38 | 0° 3 | 18°47 | 29° 3 | 27°36 | 10°53 | 16°51 | S 4 |
| S 5 | 20 55 44 | 12°47'36 | 12♊26 | 25°58 | 6°40 | 16°21 | 1°10 | 2° 4 | 14°36 | 0° 2 | 18°48 | 29° 4 | 27°33 | 11° 0 | 16°50 | S 5 |
| M 6 | 20 59 40 | 13°45'10 | 25°17 | 26°20 | 7° 0 | 16°43 | 1°22 | 2° 9 | 14°34 | 0° 0 | 18°49 | 29°R 5 | 27°30 | 11° 7 | 16°48 | M 6 |
| T 7 | 21 3 37 | 14°42'47 | 8♋32 | 26°49 | 7°22 | 17° 4 | 1°33 | 2°15 | 14°32 | 29♐59 | 18°50 | 29° 5 | 27°27 | 11°13 | 16°47 | T 7 |
| W 8 | 21 7 33 | 15°40'24 | 22°13 | 27°25 | 7°45 | 17°24 | 1°45 | 2°21 | 14°30 | 29°58 | 18°51 | 29° 3 | 27°24 | 11°20 | 16°46 | W 8 |
| T 9 | 21 11 30 | 16°38'03 | 6♌17 | 28° 7 | 8°10 | 17°44 | 1°56 | 2°27 | 14°28 | 29°57 | 18°51 | 28°59 | 27°20 | 11°27 | 16°45 | T 9 |
| F 10 | 21 15 26 | 17°35'44 | 20°43 | 28°57 | 8°37 | 18° 3 | 2° 8 | 2°32 | 14°26 | 29°56 | 18°52 | 28°52 | 27°17 | 11°34 | 16°44 | F 10 |
| S 11 | 21 19 23 | 18°33'25 | 5♍25 | 29°53 | 9° 5 | 18°22 | 2°19 | 2°38 | 14°24 | 29°56 | 18°53 | 28°45 | 27°14 | 11°40 | 16°43 | S 11 |
| S 12 | 21 23 20 | 19°31'08 | 20°13 | 0♌55 | 9°35 | 18°40 | 2°31 | 2°44 | 14°22 | 29°55 | 18°54 | 28°37 | 27°11 | 11°47 | 16°43 | S 12 |
| M13 | 21 27 16 | 20°28'51 | 5♎ 1 | 2° 4 | 10° 6 | 18°57 | 2°42 | 2°50 | 14°20 | 29°54 | 18°55 | 28°30 | 27° 8 | 11°54 | 16°42 | M13 |
| T 14 | 21 31 13 | 21°26'36 | 19°41 | 3°19 | 10°39 | 19°13 | 2°53 | 2°57 | 14°18 | 29°53 | 18°55 | 28°25 | 27° 4 | 12° 0 | 16°41 | T 14 |
| W15 | 21 35 9 | 22°24'22 | 4♏ 7 | 4°39 | 11°12 | 19°29 | 3° 4 | 3° 3 | 14°17 | 29°52 | 18°56 | 28°21 | 27° 1 | 12° 7 | 16°41 | W15 |
| T 16 | 21 39 6 | 23°22'10 | 18°16 | 6° 5 | 11°48 | 19°45 | 3°15 | 3° 9 | 14°15 | 29°51 | 18°57 | 28°D20 | 26°58 | 12°14 | 16°41 | T 16 |
| F 17 | 21 43 2 | 24°19'58 | 2♐ 6 | 7°36 | 12°24 | 19°59 | 3°26 | 3°15 | 14°13 | 29°50 | 18°58 | 28°20 | 26°55 | 12°21 | 16°40 | F 17 |
| S 18 | 21 46 59 | 25°17'48 | 15°39 | 9°11 | 13° 2 | 20°13 | 3°37 | 3°21 | 14°12 | 29°50 | 18°58 | 28°21 | 26°52 | 12°27 | 16°40 | S 18 |
| S 19 | 21 50 55 | 26°15'38 | 28°56 | 10°50 | 13°41 | 20°26 | 3°48 | 3°28 | 14°10 | 29°49 | 18°59 | 28°R21 | 26°49 | 12°34 | 16°40 | S 19 |
| M20 | 21 54 52 | 27°13'31 | 11♑58 | 12°33 | 14°20 | 20°39 | 3°58 | 3°34 | 14° 9 | 29°48 | 19° 0 | 28°20 | 26°45 | 12°41 | 16°D40 | M20 |
| T 21 | 21 58 49 | 28°11'24 | 24°48 | 14°20 | 15° 1 | 20°51 | 4° 9 | 3°41 | 14° 7 | 29°48 | 19° 0 | 28°17 | 26°42 | 12°47 | 16°40 | T 21 |
| W22 | 22 2 45 | 29° 9'19 | 7♒26 | 16° 9 | 15°43 | 21° 2 | 4°19 | 3°47 | 14° 6 | 29°47 | 19° 1 | 28°12 | 26°39 | 12°54 | 16°40 | W22 |
| T 23 | 22 6 42 | 0♍ 7'15 | 19°54 | 18° 0 | 16°26 | 21°12 | 4°30 | 3°54 | 14° 4 | 29°46 | 19° 1 | 28° 4 | 26°36 | 13° 1 | 16°40 | T 23 |
| F 24 | 22 10 38 | 1° 5'12 | 2♓13 | 19°53 | 17°10 | 21°22 | 4°40 | 4° 0 | 14° 3 | 29°46 | 19° 2 | 27°53 | 26°33 | 13° 8 | 16°41 | F 24 |
| S 25 | 22 14 35 | 2° 3'12 | 14°23 | 21°48 | 17°55 | 21°30 | 4°50 | 4° 7 | 14° 1 | 29°45 | 19° 2 | 27°42 | 26°30 | 13°14 | 16°41 | S 25 |
| S 26 | 22 18 31 | 3° 1'13 | 26°26 | 23°44 | 18°41 | 21°38 | 5° 0 | 4°13 | 14° 0 | 29°45 | 19° 3 | 27°30 | 26°26 | 13°21 | 16°42 | S 26 |
| M27 | 22 22 28 | 3°59'15 | 8♈22 | 25°40 | 19°28 | 21°45 | 5°10 | 4°20 | 13°59 | 29°44 | 19° 3 | 27°18 | 26°23 | 13°28 | 16°42 | M27 |
| T 28 | 22 26 24 | 4°57'20 | 20°14 | 27°37 | 20°15 | 21°52 | 5°20 | 4°27 | 13°57 | 29°44 | 19° 4 | 27° 9 | 26°20 | 13°34 | 16°43 | T 28 |
| W29 | 22 30 21 | 5°55'26 | 2♉ 4 | 29°34 | 21° 4 | 21°57 | 5°30 | 4°34 | 13°56 | 29°43 | 19° 4 | 27° 1 | 26°17 | 13°41 | 16°44 | W29 |
| T 30 | 22 34 18 | 6°53'35 | 13°57 | 1♍31 | 21°53 | 22° 2 | 5°39 | 4°40 | 13°55 | 29°43 | 19° 5 | 26°57 | 26°14 | 13°48 | 16°45 | T 30 |
| F 31 | 22 38 14 | 7♍51'45 | 25♉56 | 3♍28 | 22♋43 | 22♈ 6 | 5♋49 | 4♎47 | 13♑54 | 29♐43 | 19♊ 5 | 26♐54 | 26♐10 | 13♈55 | 16♐46 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18n 3 | 13n37 | 4n42 | 17n27 | 3s40 | 17n13 | 6s 9 | 2n 9 | 4s 1 | 23n13 | 0s16 | 1n25 | 2n17 | 23s 7 | 0s27 | 22s23 | 1n 6 | 14n55 | 8s 7 | 23s29 | 23s28 | 8n48 | 16s50 | 6n 2 |
| T 2 | 17 48 | 17 21 | 4 9 | 17 42 | 3 26 | 17 15 | 6 6 | 2 17 | 4 3 | 23 13 | 0 16 | 1 23 | 2 17 | 23 7 | 0 27 | 22 23 | 1 6 | 14 55 | 8 7 | 23 29 | 23 28 | 8 50 | 16 50 | 6 2 |
| F 3 | 17 32 | 20 26 | 3 25 | 17 57 | 3 10 | 17 18 | 6 3 | 2 24 | 4 4 | 23 13 | 0 16 | 1 21 | 2 17 | 23 7 | 0 27 | 22 23 | 1 6 | 14 55 | 8 7 | 23 29 | 23 28 | 8 53 | 16 50 | 6 2 |
| S 4 | 17 16 | 22 38 | 2 31 | 18 11 | 2 54 | 17 20 | 6 0 | 2 32 | 4 5 | 23 13 | 0 16 | 1 19 | 2 17 | 23 8 | 0 27 | 22 23 | 1 6 | 14 55 | 8 7 | 23 29 | 23 28 | 8 55 | 16 50 | 6 1 |
| S 5 | 17 0 | 23 48 | 1 29 | 18 24 | 2 38 | 17 23 | 5 56 | 2 39 | 4 6 | 23 13 | 0 16 | 1 16 | 2 17 | 23 8 | 0 27 | 22 23 | 1 6 | 14 55 | 8 7 | 23 29 | 23 28 | 8 58 | 16 50 | 6 1 |
| M 6 | 16 44 | 23 45 | 0 21 | 18 37 | 2 21 | 17 26 | 5 53 | 2 46 | 4 8 | 23 13 | 0 16 | 1 14 | 2 17 | 23 8 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 28 | 9 0 | 16 51 | 6 1 |
| T 7 | 16 27 | 22 22 | 0s51 | 18 48 | 2 5 | 17 29 | 5 49 | 2 53 | 4 9 | 23 13 | 0 16 | 1 11 | 2 16 | 23 8 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 28 | 9 3 | 16 51 | 6 0 |
| W 8 | 16 10 | 19 39 | 2 1 | 18 57 | 1 48 | 17 31 | 5 45 | 3 0 | 4 10 | 23 12 | 0 16 | 1 9 | 2 16 | 23 8 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 27 | 9 5 | 16 51 | 6 0 |
| T 9 | 15 53 | 15 43 | 3 7 | 19 5 | 1 31 | 17 34 | 5 40 | 3 6 | 4 11 | 23 12 | 0 16 | 1 7 | 2 16 | 23 9 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 27 | 9 7 | 16 52 | 6 0 |
| F 10 | 15 35 | 10 47 | 4 2 | 19 12 | 1 15 | 17 37 | 5 36 | 3 12 | 4 12 | 23 12 | 0 16 | 1 4 | 2 16 | 23 9 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 27 | 9 10 | 16 52 | 5 59 |
| S 11 | 15 18 | 5 11 | 4 42 | 19 16 | 0 58 | 17 40 | 5 31 | 3 19 | 4 13 | 23 12 | 0 16 | 1 2 | 2 16 | 23 9 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 27 | 9 12 | 16 52 | 5 59 |
| S 12 | 15 0 | 0s46 | 5 3 | 19 18 | 0 43 | 17 43 | 5 26 | 3 24 | 4 14 | 23 12 | 0 16 | 0 59 | 2 16 | 23 9 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 27 | 9 15 | 16 52 | 5 58 |
| M13 | 14 41 | 6 39 | 5 4 | 19 18 | 0 27 | 17 46 | 5 21 | 3 30 | 4 15 | 23 12 | 0 15 | 0 57 | 2 16 | 23 9 | 0 27 | 22 23 | 1 6 | 14 55 | 8 8 | 23 29 | 23 27 | 9 17 | 16 53 | 5 58 |
| T 14 | 14 23 | 12 7 | 4 46 | 19 15 | 0 13 | 17 49 | 5 16 | 3 35 | 4 16 | 23 12 | 0 15 | 0 54 | 2 16 | 23 10 | 0 27 | 22 23 | 1 6 | 14 54 | 8 8 | 23 28 | 23 27 | 9 20 | 16 53 | 5 58 |
| W15 | 14 4 | 16 49 | 4 9 | 19 9 | 0n 1 | 17 51 | 5 11 | 3 40 | 4 17 | 23 12 | 0 15 | 0 51 | 2 15 | 23 10 | 0 27 | 22 23 | 1 6 | 14 54 | 8 8 | 23 28 | 23 27 | 9 22 | 16 53 | 5 57 |
| T 16 | 13 45 | 20 28 | 3 18 | 19 1 | 0 15 | 17 54 | 5 5 | 3 45 | 4 18 | 23 11 | 0 15 | 0 49 | 2 15 | 23 10 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 27 | 9 25 | 16 54 | 5 57 |
| F 17 | 13 26 | 22 50 | 2 16 | 18 51 | 0 27 | 17 56 | 5 0 | 3 50 | 4 19 | 23 11 | 0 15 | 0 46 | 2 15 | 23 10 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 27 | 9 27 | 16 54 | 5 56 |
| S 18 | 13 7 | 23 50 | 1 8 | 18 37 | 0 39 | 17 58 | 4 54 | 3 55 | 4 20 | 23 11 | 0 15 | 0 44 | 2 15 | 23 10 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 27 | 9 29 | 16 55 | 5 56 |
| S 19 | 12 47 | 23 26 | 0n 3 | 18 21 | 0 50 | 18 0 | 4 48 | 3 59 | 4 20 | 23 11 | 0 15 | 0 41 | 2 15 | 23 10 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 27 | 9 32 | 16 55 | 5 56 |
| M20 | 12 27 | 21 45 | 1 12 | 18 1 | 1 0 | 18 2 | 4 43 | 4 3 | 4 21 | 23 10 | 0 15 | 0 38 | 2 15 | 23 11 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 27 | 9 34 | 16 55 | 5 55 |
| T 21 | 12 8 | 18 58 | 2 16 | 17 39 | 1 8 | 18 3 | 4 37 | 4 6 | 4 22 | 23 10 | 0 15 | 0 36 | 2 15 | 23 11 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 27 | 9 37 | 16 56 | 5 55 |
| W22 | 11 47 | 15 21 | 3 13 | 17 15 | 1 16 | 18 4 | 4 31 | 4 10 | 4 22 | 23 10 | 0 15 | 0 33 | 2 15 | 23 11 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 26 | 9 39 | 16 56 | 5 54 |
| T 23 | 11 27 | 11 6 | 3 59 | 16 47 | 1 23 | 18 5 | 4 25 | 4 13 | 4 23 | 23 10 | 0 15 | 0 30 | 2 15 | 23 11 | 0 27 | 22 23 | 1 6 | 14 54 | 8 9 | 23 28 | 23 26 | 9 41 | 16 57 | 5 54 |
| F 24 | 11 7 | 6 27 | 4 33 | 16 17 | 1 29 | 18 6 | 4 19 | 4 16 | 4 23 | 23 9 | 0 15 | 0 28 | 2 14 | 23 11 | 0 27 | 22 23 | 1 6 | 14 54 | 8 10 | 23 28 | 23 26 | 9 44 | 16 57 | 5 54 |
| S 25 | 10 46 | 1 38 | 4 54 | 15 45 | 1 35 | 18 6 | 4 13 | 4 19 | 4 24 | 23 9 | 0 15 | 0 25 | 2 14 | 23 11 | 0 27 | 22 24 | 1 5 | 14 54 | 8 10 | 23 28 | 23 26 | 9 46 | 16 58 | 5 53 |
| S 26 | 10 25 | 3n12 | 5 2 | 15 11 | 1 39 | 18 6 | 4 7 | 4 22 | 4 24 | 23 9 | 0 15 | 0 22 | 2 14 | 23 11 | 0 27 | 22 24 | 1 5 | 14 54 | 8 10 | 23 28 | 23 26 | 9 49 | 16 58 | 5 53 |
| M27 | 10 4 | 7 52 | 4 57 | 14 35 | 1 42 | 18 6 | 4 1 | 4 24 | 4 25 | 23 8 | 0 14 | 0 20 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 54 | 8 10 | 23 27 | 23 26 | 9 51 | 16 58 | 5 52 |
| T 28 | 9 43 | 12 13 | 4 38 | 13 57 | 1 44 | 18 5 | 3 55 | 4 26 | 4 25 | 23 8 | 0 14 | 0 17 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 53 | 8 10 | 23 27 | 23 26 | 9 53 | 16 59 | 5 52 |
| W29 | 9 21 | 16 6 | 4 8 | 13 18 | 1 46 | 18 4 | 3 48 | 4 28 | 4 25 | 23 8 | 0 14 | 0 14 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 53 | 8 10 | 23 27 | 23 26 | 9 56 | 16 59 | 5 51 |
| T 30 | 9 0 | 19 21 | 3 27 | 12 37 | 1 47 | 18 3 | 3 42 | 4 29 | 4 25 | 23 8 | 0 14 | 0 11 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 53 | 8 10 | 23 27 | 23 26 | 9 58 | 17 0 | 5 51 |
| F 31 | 8n38 | 21n48 | 2n37 | 11n55 | 1n47 | 18n 1 | 3s36 | 4n31 | 4s26 | 23n 7 | 0s14 | 0n 9 | 2n14 | 23s12 | 0s27 | 22s24 | 1n 5 | 14n53 | 8s10 | 23s27 | 23s26 | 10n 1 | 17s 0 | 5n51 |

Julian Day Number = 2326479.5, Delta T = 38.04 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'39, Lahiri = 19°04'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## SEPTEMBER 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 42 11 | 8♍49'58 | 8♊ 6 | 5♍25 | 23♋33 | 22♈ 8 | 5♋58 | 4♎54 | 13°R53 | 29°R42 | 19♊ 6 | 26°D53 | 26♐ 7 | 14♈ 1 | 16♐47 | S 1 |
| S 2 | 22 46 7 | 9°48'12 | 20°33 | 7°20 | 24°25 | 22°10 | 6° 8 | 5° 1 | 13♑52 | 29♐42 | 19° 6 | 26°R54 | 26° 4 | 14° 8 | 16°48 | S 2 |
| M 3 | 22 50 4 | 10°46'29 | 3♋21 | 9°15 | 25°17 | 22°12 | 6°17 | 5° 8 | 13°51 | 29°42 | 19° 6 | 26♐54 | 26° 1 | 14°15 | 16°49 | M 3 |
| T 4 | 22 54 0 | 11°44'47 | 16°34 | 11°10 | 26° 9 | 22°R12 | 6°26 | 5°15 | 13°50 | 29°41 | 19° 7 | 26°52 | 25°58 | 14°21 | 16°50 | T 4 |
| W 5 | 22 57 57 | 12°43'08 | 0♌17 | 13° 3 | 27° 3 | 22°11 | 6°35 | 5°22 | 13°49 | 29°41 | 19° 7 | 26°49 | 25°55 | 14°28 | 16°52 | W 5 |
| T 6 | 23 1 53 | 13°41'31 | 14°28 | 14°55 | 27°57 | 22°10 | 6°44 | 5°29 | 13°48 | 29°41 | 19° 7 | 26°42 | 25°51 | 14°35 | 16°53 | T 6 |
| F 7 | 23 5 50 | 14°39'55 | 29° 6 | 16°47 | 28°51 | 22° 7 | 6°52 | 5°36 | 13°48 | 29°41 | 19° 7 | 26°34 | 25°48 | 14°42 | 16°55 | F 7 |
| S 8 | 23 9 47 | 15°38'22 | 14♍ 5 | 18°37 | 29°46 | 22° 4 | 7° 1 | 5°43 | 13°47 | 29°41 | 19° 8 | 26°23 | 25°45 | 14°48 | 16°57 | S 8 |
| S 9 | 23 13 43 | 16°36'51 | 29°14 | 20°26 | 0♌42 | 22° 0 | 7° 9 | 5°50 | 13°46 | 29°41 | 19° 8 | 26°12 | 25°42 | 14°55 | 16°58 | S 9 |
| M10 | 23 17 40 | 17°35'21 | 14♎24 | 22°14 | 1°38 | 21°55 | 7°18 | 5°57 | 13°45 | 29°41 | 19° 8 | 26° 2 | 25°39 | 15° 2 | 17° 0 | M10 |
| T 11 | 23 21 36 | 18°33'53 | 29°24 | 24° 2 | 2°34 | 21°49 | 7°26 | 6° 4 | 13°45 | 29°D41 | 19° 8 | 25°53 | 25°36 | 15° 8 | 17° 2 | T 11 |
| W12 | 23 25 33 | 19°32'27 | 14♏ 7 | 25°48 | 3°32 | 21°42 | 7°34 | 6°11 | 13°44 | 29°41 | 19° 8 | 25°48 | 25°32 | 15°15 | 17° 4 | W12 |
| T 13 | 23 29 29 | 20°31'02 | 28°26 | 27°33 | 4°29 | 21°35 | 7°42 | 6°19 | 13°44 | 29°41 | 19° 9 | 25°44 | 25°29 | 15°22 | 17° 6 | T 13 |
| F 14 | 23 33 26 | 21°29'40 | 12♐21 | 29°17 | 5°27 | 21°26 | 7°50 | 6°26 | 13°43 | 29°41 | 19° 9 | 25°43 | 25°26 | 15°29 | 17° 9 | F 14 |
| S 15 | 23 37 22 | 22°28'19 | 25°51 | 1♎ 0 | 6°26 | 21°17 | 7°57 | 6°33 | 13°43 | 29°41 | 19° 9 | 25°43 | 25°23 | 15°35 | 17°11 | S 15 |
| S 16 | 23 41 19 | 23°26'59 | 9♑ 1 | 2°42 | 7°25 | 21° 7 | 8° 5 | 6°40 | 13°43 | 29°41 | 19° 9 | 25°43 | 25°20 | 15°42 | 17°13 | S 16 |
| M17 | 23 45 16 | 24°25'41 | 21°51 | 4°23 | 8°24 | 20°56 | 8°12 | 6°47 | 13°42 | 29°41 | 19° 9 | 25°41 | 25°16 | 15°49 | 17°16 | M17 |
| T 18 | 23 49 12 | 25°24'25 | 4♒27 | 6° 3 | 9°24 | 20°45 | 8°19 | 6°55 | 13°42 | 29°42 | 19°R 9 | 25°37 | 25°13 | 15°55 | 17°18 | T 18 |
| W19 | 23 53 9 | 26°23'11 | 16°51 | 7°42 | 10°24 | 20°32 | 8°27 | 7° 2 | 13°42 | 29°42 | 19° 9 | 25°30 | 25°10 | 16° 2 | 17°21 | W19 |
| T 20 | 23 57 5 | 27°21'59 | 29° 6 | 9°20 | 11°25 | 20°19 | 8°33 | 7° 9 | 13°42 | 29°42 | 19° 9 | 25°20 | 25° 7 | 16° 9 | 17°24 | T 20 |
| F 21 | 0 1 2 | 28°20'48 | 11♓13 | 10°57 | 12°26 | 20° 6 | 8°40 | 7°17 | 13°42 | 29°42 | 19° 9 | 25° 8 | 25° 4 | 16°16 | 17°26 | F 21 |
| S 22 | 0 4 58 | 29°19'39 | 23°14 | 12°33 | 13°27 | 19°51 | 8°47 | 7°24 | 13°41 | 29°43 | 19° 9 | 24°54 | 25° 1 | 16°22 | 17°29 | S 22 |
| S 23 | 0 8 55 | 0♎18'32 | 5♈10 | 14° 9 | 14°29 | 19°37 | 8°53 | 7°31 | 13°D41 | 29°43 | 19° 9 | 24°40 | 24°57 | 16°29 | 17°32 | S 23 |
| M24 | 0 12 51 | 1°17'28 | 17° 3 | 15°43 | 15°31 | 19°21 | 9° 0 | 7°39 | 13°42 | 29°44 | 19° 9 | 24°26 | 24°54 | 16°36 | 17°35 | M24 |
| T 25 | 0 16 48 | 2°16'25 | 28°54 | 17°17 | 16°33 | 19° 5 | 9° 6 | 7°46 | 13°42 | 29°44 | 19° 8 | 24°14 | 24°51 | 16°42 | 17°38 | T 25 |
| W26 | 0 20 44 | 3°15'25 | 10♉45 | 18°50 | 17°36 | 18°48 | 9°12 | 7°53 | 13°42 | 29°44 | 19° 8 | 24° 5 | 24°48 | 16°49 | 17°42 | W26 |
| T 27 | 0 24 41 | 4°14'27 | 22°39 | 20°21 | 18°39 | 18°31 | 9°18 | 8° 1 | 13°42 | 29°45 | 19° 8 | 23°58 | 24°45 | 16°56 | 17°45 | T 27 |
| F 28 | 0 28 38 | 5°13'31 | 4♊38 | 21°52 | 19°43 | 18°14 | 9°23 | 8° 8 | 13°42 | 29°46 | 19° 8 | 23°55 | 24°41 | 17° 3 | 17°48 | F 28 |
| S 29 | 0 32 34 | 6°12'37 | 16°47 | 23°23 | 20°47 | 17°56 | 9°29 | 8°15 | 13°43 | 29°46 | 19° 8 | 23°53 | 24°38 | 17° 9 | 17°52 | S 29 |
| S 30 | 0 36 31 | 7♎11'46 | 29♊11 | 24♎52 | 21♌51 | 17♈38 | 9♋34 | 8♎23 | 13♑43 | 29♐47 | 19♊ 8 | 23°D53 | 24♐35 | 17♈16 | 17♐55 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n16 | 23n19 | 1n38 | 11n12 | 1n47 | 17n59 | 3s30 | 4n32 | 4s26 | 23n 7 | 0s14 | 0n 6 | 2n14 | 23s12 | 0s27 | 22s24 | 1n 5 | 14n53 | 8s11 | 23s27 | 23s26 | 10n 3 | 17s 1 | 5n50 |
| S 2 | 7 54 | 23 42 | 0 34 | 10 28 | 1 46 | 17 56 | 3 23 | 4 32 | 4 26 | 23 6 | 0 14 | 0 3 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 53 | 8 11 | 23 27 | 23 26 | 10 5 | 17 2 | 5 50 |
| M 3 | 7 32 | 22 52 | 0s34 | 9 43 | 1 44 | 17 53 | 3 17 | 4 33 | 4 26 | 23 6 | 0 14 | 0 0 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 53 | 8 11 | 23 27 | 23 25 | 10 8 | 17 2 | 5 49 |
| T 4 | 7 10 | 20 46 | 1 42 | 8 57 | 1 41 | 17 50 | 3 11 | 4 33 | 4 25 | 23 6 | 0 14 | 0s 3 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 53 | 8 11 | 23 27 | 23 25 | 10 10 | 17 3 | 5 49 |
| W 5 | 6 48 | 17 25 | 2 47 | 8 11 | 1 39 | 17 46 | 3 5 | 4 33 | 4 25 | 23 5 | 0 14 | 0 5 | 2 14 | 23 12 | 0 27 | 22 24 | 1 5 | 14 53 | 8 11 | 23 27 | 23 25 | 10 12 | 17 3 | 5 49 |
| T 6 | 6 25 | 12 57 | 3 43 | 7 25 | 1 35 | 17 42 | 2 58 | 4 33 | 4 25 | 23 5 | 0 14 | 0 8 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 11 | 23 27 | 23 25 | 10 15 | 17 4 | 5 48 |
| F 7 | 6 3 | 7 38 | 4 27 | 6 38 | 1 32 | 17 37 | 2 52 | 4 32 | 4 24 | 23 5 | 0 14 | 0 11 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 11 | 23 26 | 23 25 | 10 17 | 17 4 | 5 48 |
| S 8 | 5 40 | 1 45 | 4 54 | 5 51 | 1 28 | 17 32 | 2 46 | 4 32 | 4 24 | 23 4 | 0 14 | 0 14 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 12 | 23 26 | 23 25 | 10 20 | 17 5 | 5 47 |
| S 9 | 5 18 | 4s17 | 5 0 | 5 4 | 1 23 | 17 26 | 2 40 | 4 31 | 4 23 | 23 4 | 0 14 | 0 17 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 12 | 23 26 | 23 25 | 10 22 | 17 5 | 5 47 |
| M10 | 4 55 | 10 4 | 4 45 | 4 17 | 1 18 | 17 20 | 2 34 | 4 30 | 4 23 | 23 3 | 0 13 | 0 20 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 12 | 23 25 | 23 25 | 10 24 | 17 6 | 5 46 |
| T 11 | 4 32 | 15 12 | 4 11 | 3 30 | 1 13 | 17 14 | 2 28 | 4 28 | 4 22 | 23 3 | 0 13 | 0 23 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 12 | 23 25 | 23 25 | 10 27 | 17 7 | 5 46 |
| W12 | 4 9 | 19 18 | 3 21 | 2 43 | 1 8 | 17 7 | 2 21 | 4 26 | 4 21 | 23 3 | 0 13 | 0 25 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 12 | 23 25 | 23 25 | 10 29 | 17 7 | 5 46 |
| T 13 | 3 46 | 22 6 | 2 19 | 1 56 | 1 2 | 16 59 | 2 15 | 4 25 | 4 20 | 23 2 | 0 13 | 0 28 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 12 | 23 25 | 23 24 | 10 31 | 17 8 | 5 45 |
| F 14 | 3 23 | 23 28 | 1 10 | 1 9 | 0 56 | 16 51 | 2 9 | 4 23 | 4 19 | 23 2 | 0 13 | 0 31 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 52 | 8 12 | 23 25 | 23 24 | 10 34 | 17 8 | 5 45 |
| S 15 | 3 0 | 23 24 | 0n 1 | 0 22 | 0 50 | 16 43 | 2 3 | 4 20 | 4 17 | 23 2 | 0 13 | 0 34 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 51 | 8 13 | 23 25 | 23 24 | 10 36 | 17 9 | 5 44 |
| S 16 | 2 36 | 22 1 | 1 10 | 0s24 | 0 44 | 16 34 | 1 57 | 4 18 | 4 16 | 23 1 | 0 13 | 0 37 | 2 13 | 23 13 | 0 27 | 22 24 | 1 5 | 14 51 | 8 13 | 23 25 | 23 24 | 10 38 | 17 10 | 5 44 |
| M17 | 2 13 | 19 31 | 2 13 | 1 10 | 0 37 | 16 24 | 1 51 | 4 15 | 4 15 | 23 1 | 0 13 | 0 40 | 2 13 | 23 13 | 0 27 | 22 25 | 1 4 | 14 51 | 8 13 | 23 25 | 23 24 | 10 41 | 17 10 | 5 44 |
| T 18 | 1 50 | 16 7 | 3 9 | 1 56 | 0 31 | 16 15 | 1 45 | 4 12 | 4 13 | 23 0 | 0 13 | 0 43 | 2 13 | 23 13 | 0 27 | 22 25 | 1 4 | 14 51 | 8 13 | 23 25 | 23 24 | 10 43 | 17 11 | 5 43 |
| W19 | 1 26 | 12 5 | 3 55 | 2 42 | 0 24 | 16 4 | 1 39 | 4 9 | 4 11 | 23 0 | 0 13 | 0 46 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 51 | 8 13 | 23 24 | 23 24 | 10 45 | 17 12 | 5 43 |
| T 20 | 1 3 | 7 36 | 4 29 | 3 27 | 0 17 | 15 53 | 1 33 | 4 6 | 4 9 | 23 0 | 0 13 | 0 49 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 51 | 8 13 | 23 24 | 23 24 | 10 48 | 17 12 | 5 42 |
| F 21 | 0 40 | 2 53 | 4 51 | 4 11 | 0 10 | 15 42 | 1 28 | 4 3 | 4 8 | 22 59 | 0 13 | 0 51 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 51 | 8 13 | 23 24 | 23 23 | 10 50 | 17 13 | 5 42 |
| S 22 | 0 16 | 1n53 | 4 59 | 4 55 | 0 3 | 15 30 | 1 22 | 3 59 | 4 5 | 22 59 | 0 13 | 0 54 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 50 | 8 13 | 23 23 | 23 23 | 10 52 | 17 13 | 5 42 |
| S 23 | 0s 7 | 6 34 | 4 55 | 5 39 | 0s 4 | 15 18 | 1 16 | 3 56 | 4 3 | 22 59 | 0 12 | 0 57 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 50 | 8 14 | 23 23 | 23 23 | 10 54 | 17 14 | 5 41 |
| M24 | 0 31 | 10 58 | 4 37 | 6 22 | 0 11 | 15 5 | 1 11 | 3 52 | 4 1 | 22 58 | 0 12 | 1 0 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 50 | 8 14 | 23 22 | 23 23 | 10 57 | 17 15 | 5 41 |
| T 25 | 0 54 | 14 57 | 4 7 | 7 5 | 0 18 | 14 52 | 1 5 | 3 48 | 3 59 | 22 58 | 0 12 | 1 3 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 50 | 8 14 | 23 21 | 23 23 | 10 59 | 17 15 | 5 40 |
| W26 | 1 18 | 18 21 | 3 27 | 7 47 | 0 26 | 14 39 | 0 59 | 3 44 | 3 56 | 22 58 | 0 12 | 1 6 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 50 | 8 14 | 23 21 | 23 23 | 11 1 | 17 16 | 5 40 |
| T 27 | 1 41 | 21 0 | 2 37 | 8 29 | 0 33 | 14 24 | 0 54 | 3 40 | 3 53 | 22 57 | 0 12 | 1 9 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 50 | 8 14 | 23 21 | 23 23 | 11 4 | 17 17 | 5 40 |
| F 28 | 2 5 | 22 45 | 1 40 | 9 10 | 0 40 | 14 10 | 0 49 | 3 36 | 3 51 | 22 57 | 0 12 | 1 12 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 50 | 8 14 | 23 21 | 23 23 | 11 6 | 17 17 | 5 39 |
| S 29 | 2 28 | 23 27 | 0 38 | 9 50 | 0 47 | 13 55 | 0 43 | 3 32 | 3 48 | 22 57 | 0 12 | 1 15 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 49 | 8 14 | 23 21 | 23 22 | 11 8 | 17 18 | 5 39 |
| S 30 | 2s52 | 23n 1 | 0s28 | 10s30 | 0s55 | 13n39 | 0s38 | 3n28 | 3s45 | 22n56 | 0s12 | 1s18 | 2n13 | 23s13 | 0s26 | 22s25 | 1n 4 | 14n49 | 8s15 | 23s21 | 23s22 | 11n11 | 17s19 | 5n39 |

Julian Day Number = 2326510.5, Delta T = 37.99 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'43, Lahiri = 19°04'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## OCTOBER 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 40 27 | 8♎10'57 | 11♋55 | 26♎20 | 22♌55 | 17°R19 | 9♋40 | 8♎30 | 13♑43 | 29♐47 | 19°R 7 | 23°R53 | 24♐32 | 17♈23 | 17♐59 | M 1 |
| T 2 | 0 44 24 | 9°10'11 | 25° 3 | 27°48 | 24° 0 | 17♈ 0 | 9°45 | 8°37 | 13°44 | 29°48 | 19♊ 7 | 23♐52 | 24°29 | 17°29 | 18° 2 | T 2 |
| W 3 | 0 48 20 | 10° 9'27 | 8♌38 | 29°15 | 25° 5 | 16°41 | 9°49 | 8°45 | 13°44 | 29°49 | 19° 7 | 23°49 | 24°26 | 17°36 | 18° 6 | W 3 |
| T 4 | 0 52 17 | 11° 8'45 | 22°44 | 0♏41 | 26°10 | 16°22 | 9°54 | 8°52 | 13°45 | 29°50 | 19° 6 | 23°44 | 24°22 | 17°43 | 18°10 | T 4 |
| F 5 | 0 56 13 | 12° 8'05 | 7♍19 | 2° 6 | 27°15 | 16° 3 | 9°59 | 8°59 | 13°45 | 29°50 | 19° 6 | 23°36 | 24°19 | 17°50 | 18°14 | F 5 |
| S 6 | 1 0 10 | 13° 7'28 | 22°18 | 3°30 | 28°21 | 15°44 | 10° 3 | 9° 7 | 13°46 | 29°51 | 19° 6 | 23°27 | 24°16 | 17°56 | 18°18 | S 6 |
| S 7 | 1 4 7 | 14° 6'53 | 7♎33 | 4°53 | 29°27 | 15°24 | 10° 7 | 9°14 | 13°47 | 29°52 | 19° 5 | 23°16 | 24°13 | 18° 3 | 18°22 | S 7 |
| M 8 | 1 8 3 | 15° 6'19 | 22°53 | 6°15 | 0♍33 | 15° 5 | 10°11 | 9°22 | 13°48 | 29°53 | 19° 5 | 23° 6 | 24°10 | 18°10 | 18°26 | M 8 |
| T 9 | 1 12 0 | 16° 5'48 | 8♏ 6 | 7°36 | 1°40 | 14°46 | 10°15 | 9°29 | 13°48 | 29°54 | 19° 4 | 22°58 | 24° 7 | 18°16 | 18°30 | T 9 |
| W10 | 1 15 56 | 17° 5'19 | 23° 3 | 8°56 | 2°46 | 14°27 | 10°19 | 9°36 | 13°49 | 29°55 | 19° 4 | 22°52 | 24° 3 | 18°23 | 18°34 | W10 |
| T 11 | 1 19 53 | 18° 4'52 | 7♐37 | 10°15 | 3°53 | 14° 8 | 10°22 | 9°44 | 13°50 | 29°56 | 19° 3 | 22°49 | 24° 0 | 18°30 | 18°38 | T 11 |
| F 12 | 1 23 49 | 19° 4'27 | 21°42 | 11°33 | 5° 0 | 13°50 | 10°25 | 9°51 | 13°51 | 29°57 | 19° 3 | 22°D48 | 23°57 | 18°37 | 18°43 | F 12 |
| S 13 | 1 27 46 | 20° 4'03 | 5♑20 | 12°50 | 6° 8 | 13°32 | 10°28 | 9°58 | 13°52 | 29°58 | 19° 2 | 22°49 | 23°54 | 18°43 | 18°47 | S 13 |
| S 14 | 1 31 42 | 21° 3'41 | 18°32 | 14° 5 | 7°15 | 13°14 | 10°31 | 10° 5 | 13°53 | 29°59 | 19° 2 | 22°R49 | 23°51 | 18°50 | 18°52 | S 14 |
| M15 | 1 35 39 | 22° 3'21 | 1♒22 | 15°18 | 8°23 | 12°57 | 10°34 | 10°13 | 13°54 | 29°59 | 19° 1 | 22°49 | 23°47 | 18°57 | 18°56 | M15 |
| T 16 | 1 39 36 | 23° 3'03 | 13°53 | 16°30 | 9°31 | 12°40 | 10°37 | 10°20 | 13°55 | 0♑ 1 | 19° 1 | 22°46 | 23°44 | 19° 3 | 19° 1 | T 16 |
| W17 | 1 43 32 | 24° 2'46 | 26°10 | 17°40 | 10°39 | 12°23 | 10°39 | 10°27 | 13°57 | 0° 2 | 19° 0 | 22°42 | 23°41 | 19°10 | 19° 5 | W17 |
| T 18 | 1 47 29 | 25° 2'31 | 8♓16 | 18°48 | 11°47 | 12° 7 | 10°41 | 10°34 | 13°58 | 0° 3 | 19° 0 | 22°35 | 23°38 | 19°17 | 19°10 | T 18 |
| F 19 | 1 51 25 | 26° 2'18 | 20°16 | 19°54 | 12°56 | 11°52 | 10°43 | 10°42 | 13°59 | 0° 4 | 18°59 | 22°25 | 23°35 | 19°24 | 19°15 | F 19 |
| S 20 | 1 55 22 | 27° 2'06 | 2♈10 | 20°58 | 14° 4 | 11°37 | 10°45 | 10°49 | 14° 1 | 0° 6 | 18°58 | 22°15 | 23°32 | 19°30 | 19°20 | S 20 |
| S 21 | 1 59 18 | 28° 1'57 | 14° 3 | 21°59 | 15°13 | 11°23 | 10°46 | 10°56 | 14° 2 | 0° 7 | 18°58 | 22° 4 | 23°28 | 19°37 | 19°25 | S 21 |
| M22 | 2 3 15 | 29° 1'49 | 25°55 | 22°57 | 16°22 | 11° 9 | 10°48 | 11° 3 | 14° 3 | 0° 8 | 18°57 | 21°54 | 23°25 | 19°44 | 19°30 | M22 |
| T 23 | 2 7 11 | 0♏ 1'43 | 7♉47 | 23°52 | 17°31 | 10°56 | 10°49 | 11°10 | 14° 5 | 0°10 | 18°56 | 21°44 | 23°22 | 19°50 | 19°35 | T 23 |
| W24 | 2 11 8 | 1° 1'40 | 19°42 | 24°43 | 18°41 | 10°44 | 10°50 | 11°17 | 14° 7 | 0°11 | 18°56 | 21°38 | 23°19 | 19°57 | 19°40 | W24 |
| T 25 | 2 15 4 | 2° 1'38 | 1♊42 | 25°31 | 19°50 | 10°33 | 10°50 | 11°24 | 14° 8 | 0°12 | 18°55 | 21°33 | 23°16 | 20° 4 | 19°45 | T 25 |
| F 26 | 2 19 1 | 3° 1'39 | 13°47 | 26°14 | 21° 0 | 10°22 | 10°51 | 11°31 | 14°10 | 0°14 | 18°54 | 21°31 | 23°12 | 20°10 | 19°50 | F 26 |
| S 27 | 2 22 58 | 4° 1'41 | 26° 2 | 26°52 | 22°10 | 10°12 | 10°51 | 11°39 | 14°11 | 0°15 | 18°53 | 21°D31 | 23° 9 | 20°17 | 19°55 | S 27 |
| S 28 | 2 26 54 | 5° 1'46 | 8♋30 | 27°25 | 23°20 | 10° 3 | 10°R52 | 11°46 | 14°13 | 0°17 | 18°53 | 21°32 | 23° 6 | 20°24 | 20° 1 | S 28 |
| M29 | 2 30 51 | 6° 1'52 | 21°14 | 27°52 | 24°30 | 9°54 | 10°52 | 11°52 | 14°15 | 0°18 | 18°52 | 21°33 | 23° 3 | 20°31 | 20° 6 | M29 |
| T 30 | 2 34 47 | 7° 2'01 | 4♌19 | 28°12 | 25°40 | 9°47 | 10°51 | 11°59 | 14°17 | 0°20 | 18°51 | 21°R34 | 23° 0 | 20°37 | 20°11 | T 30 |
| W31 | 2 38 44 | 8♏ 2'12 | 17♌47 | 28♏25 | 26♍51 | 9♈40 | 10♋51 | 12♎ 6 | 14♑19 | 0♑21 | 18♊50 | 21♐33 | 22♐57 | 20♈44 | 20♐17 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3s15 | 21n23 | 1s34 | 11s 9 | 1s 2 | 13n23 | 0s33 | 3n24 | 3s42 | 22n56 | 0s12 | 1s20 | 2n13 | 23s13 | 0s26 | 22s25 | 1n 4 | 14n49 | 8s15 | 23s21 | 23s22 | 11n13 | 17s19 | 5n38 |
| T 2 | 3 38 | 18 35 | 2 37 | 11 47 | 1 9 | 13 7 | 0 28 | 3 20 | 3 39 | 22 56 | 0 12 | 1 23 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 49 | 8 15 | 23 20 | 23 22 | 11 15 | 17 20 | 5 38 |
| W 3 | 4 2 | 14 42 | 3 34 | 12 25 | 1 16 | 12 50 | 0 22 | 3 15 | 3 35 | 22 55 | 0 12 | 1 26 | 2 13 | 23 13 | 0 26 | 22 25 | 1 4 | 14 49 | 8 15 | 23 20 | 23 22 | 11 17 | 17 21 | 5 38 |
| T 4 | 4 25 | 9 52 | 4 19 | 13 1 | 1 23 | 12 33 | 0 17 | 3 11 | 3 32 | 22 55 | 0 12 | 1 29 | 2 13 | 23 12 | 0 26 | 22 25 | 1 4 | 14 49 | 8 15 | 23 20 | 23 22 | 11 20 | 17 21 | 5 37 |
| F 5 | 4 48 | 4 21 | 4 50 | 13 38 | 1 30 | 12 15 | 0 12 | 3 7 | 3 29 | 22 55 | 0 12 | 1 32 | 2 13 | 23 12 | 0 26 | 22 25 | 1 4 | 14 48 | 8 15 | 23 20 | 23 22 | 11 22 | 17 22 | 5 37 |
| S 6 | 5 11 | 1s34 | 5 2 | 14 13 | 1 36 | 11 57 | 0 8 | 3 3 | 3 25 | 22 55 | 0 11 | 1 35 | 2 13 | 23 12 | 0 26 | 22 25 | 1 4 | 14 48 | 8 15 | 23 19 | 23 22 | 11 24 | 17 23 | 5 36 |
| S 7 | 5 35 | 7 29 | 4 53 | 14 47 | 1 43 | 11 39 | 0 3 | 2 59 | 3 21 | 22 54 | 0 11 | 1 38 | 2 13 | 23 12 | 0 26 | 22 25 | 1 4 | 14 48 | 8 15 | 23 19 | 23 21 | 11 26 | 17 23 | 5 36 |
| M 8 | 5 58 | 12 58 | 4 23 | 15 21 | 1 50 | 11 20 | 0n 2 | 2 55 | 3 18 | 22 54 | 0 11 | 1 40 | 2 13 | 23 12 | 0 26 | 22 25 | 1 4 | 14 48 | 8 16 | 23 18 | 23 21 | 11 29 | 17 24 | 5 36 |
| T 9 | 6 21 | 17 37 | 3 34 | 15 54 | 1 56 | 11 0 | 0 7 | 2 51 | 3 14 | 22 54 | 0 11 | 1 43 | 2 13 | 23 12 | 0 26 | 22 26 | 1 3 | 14 48 | 8 16 | 23 18 | 23 21 | 11 31 | 17 25 | 5 35 |
| W10 | 6 43 | 21 1 | 2 31 | 16 26 | 2 2 | 10 41 | 0 11 | 2 47 | 3 10 | 22 54 | 0 11 | 1 46 | 2 13 | 23 12 | 0 26 | 22 26 | 1 3 | 14 48 | 8 16 | 23 17 | 23 21 | 11 33 | 17 25 | 5 35 |
| T 11 | 7 6 | 22 56 | 1 20 | 16 57 | 2 8 | 10 21 | 0 16 | 2 44 | 3 6 | 22 54 | 0 11 | 1 49 | 2 13 | 23 12 | 0 26 | 22 26 | 1 3 | 14 48 | 8 16 | 23 17 | 23 21 | 11 35 | 17 26 | 5 35 |
| F 12 | 7 29 | 23 19 | 0 6 | 17 27 | 2 14 | 10 0 | 0 20 | 2 40 | 3 2 | 22 54 | 0 11 | 1 52 | 2 13 | 23 12 | 0 26 | 22 26 | 1 3 | 14 47 | 8 16 | 23 17 | 23 21 | 11 38 | 17 27 | 5 35 |
| S 13 | 7 52 | 22 16 | 1n 6 | 17 56 | 2 19 | 9 39 | 0 24 | 2 37 | 2 58 | 22 53 | 0 11 | 1 55 | 2 13 | 23 12 | 0 26 | 22 26 | 1 3 | 14 47 | 8 16 | 23 17 | 23 21 | 11 40 | 17 27 | 5 34 |
| S 14 | 8 14 | 20 0 | 2 13 | 18 24 | 2 25 | 9 18 | 0 28 | 2 34 | 2 54 | 22 53 | 0 11 | 1 57 | 2 14 | 23 11 | 0 26 | 22 26 | 1 3 | 14 47 | 8 16 | 23 17 | 23 20 | 11 42 | 17 28 | 5 34 |
| M15 | 8 36 | 16 48 | 3 11 | 18 50 | 2 30 | 8 57 | 0 33 | 2 31 | 2 49 | 22 53 | 0 11 | 2 0 | 2 14 | 23 11 | 0 26 | 22 26 | 1 3 | 14 47 | 8 16 | 23 17 | 23 20 | 11 44 | 17 29 | 5 34 |
| T 16 | 8 59 | 12 54 | 3 58 | 19 16 | 2 34 | 8 35 | 0 37 | 2 28 | 2 45 | 22 53 | 0 11 | 2 3 | 2 14 | 23 11 | 0 26 | 22 26 | 1 3 | 14 47 | 8 16 | 23 17 | 23 20 | 11 47 | 17 29 | 5 33 |
| W17 | 9 21 | 8 32 | 4 33 | 19 40 | 2 39 | 8 13 | 0 41 | 2 26 | 2 41 | 22 53 | 0 10 | 2 6 | 2 14 | 23 11 | 0 26 | 22 26 | 1 3 | 14 47 | 8 17 | 23 17 | 23 20 | 11 49 | 17 30 | 5 33 |
| T 18 | 9 43 | 3 55 | 4 55 | 20 3 | 2 43 | 7 50 | 0 44 | 2 24 | 2 37 | 22 53 | 0 10 | 2 9 | 2 14 | 23 11 | 0 26 | 22 26 | 1 3 | 14 46 | 8 17 | 23 17 | 23 20 | 11 51 | 17 31 | 5 33 |
| F 19 | 10 4 | 0n48 | 5 4 | 20 25 | 2 46 | 7 28 | 0 48 | 2 22 | 2 33 | 22 53 | 0 10 | 2 11 | 2 14 | 23 11 | 0 26 | 22 26 | 1 3 | 14 46 | 8 17 | 23 16 | 23 20 | 11 53 | 17 31 | 5 32 |
| S 20 | 10 26 | 5 27 | 5 0 | 20 45 | 2 50 | 7 5 | 0 52 | 2 20 | 2 28 | 22 53 | 0 10 | 2 14 | 2 14 | 23 11 | 0 26 | 22 26 | 1 3 | 14 46 | 8 17 | 23 15 | 23 19 | 11 55 | 17 32 | 5 32 |
| S 21 | 10 48 | 9 54 | 4 43 | 21 4 | 2 52 | 6 41 | 0 55 | 2 18 | 2 24 | 22 53 | 0 10 | 2 17 | 2 14 | 23 10 | 0 26 | 22 26 | 1 3 | 14 46 | 8 17 | 23 15 | 23 19 | 11 58 | 17 33 | 5 32 |
| M22 | 11 9 | 13 57 | 4 13 | 21 21 | 2 54 | 6 18 | 0 59 | 2 17 | 2 20 | 22 53 | 0 10 | 2 20 | 2 14 | 23 10 | 0 26 | 22 26 | 1 3 | 14 46 | 8 17 | 23 14 | 23 19 | 12 0 | 17 33 | 5 32 |
| T 23 | 11 30 | 17 29 | 3 33 | 21 37 | 2 56 | 5 54 | 1 2 | 2 16 | 2 15 | 22 53 | 0 10 | 2 22 | 2 14 | 23 10 | 0 26 | 22 26 | 1 3 | 14 46 | 8 17 | 23 14 | 23 19 | 12 2 | 17 34 | 5 31 |
| W24 | 11 51 | 20 18 | 2 43 | 21 50 | 2 57 | 5 29 | 1 6 | 2 15 | 2 11 | 22 53 | 0 10 | 2 25 | 2 14 | 23 10 | 0 26 | 22 26 | 1 3 | 14 46 | 8 17 | 23 13 | 23 19 | 12 4 | 17 35 | 5 31 |
| T 25 | 12 12 | 22 15 | 1 45 | 22 2 | 2 57 | 5 5 | 1 9 | 2 14 | 2 7 | 22 53 | 0 10 | 2 28 | 2 14 | 23 10 | 0 26 | 22 26 | 1 3 | 14 45 | 8 17 | 23 13 | 23 19 | 12 6 | 17 35 | 5 31 |
| F 26 | 12 33 | 23 11 | 0 42 | 22 12 | 2 56 | 4 40 | 1 12 | 2 14 | 2 3 | 22 53 | 0 10 | 2 30 | 2 14 | 23 10 | 0 26 | 22 26 | 1 3 | 14 45 | 8 17 | 23 13 | 23 19 | 12 9 | 17 36 | 5 31 |
| S 27 | 12 53 | 23 1 | 0s24 | 22 20 | 2 55 | 4 16 | 1 15 | 2 14 | 1 59 | 22 53 | 0 10 | 2 33 | 2 15 | 23 9 | 0 26 | 22 26 | 1 3 | 14 45 | 8 18 | 23 13 | 23 18 | 12 11 | 17 36 | 5 30 |
| S 28 | 13 13 | 21 42 | 1 31 | 22 25 | 2 53 | 3 50 | 1 18 | 2 14 | 1 54 | 22 53 | 0 9 | 2 36 | 2 15 | 23 9 | 0 26 | 22 26 | 1 3 | 14 45 | 8 18 | 23 13 | 23 18 | 12 13 | 17 37 | 5 30 |
| M29 | 13 33 | 19 16 | 2 34 | 22 28 | 2 49 | 3 25 | 1 21 | 2 15 | 1 50 | 22 53 | 0 9 | 2 38 | 2 15 | 23 9 | 0 26 | 22 26 | 1 3 | 14 45 | 8 18 | 23 13 | 23 18 | 12 15 | 17 38 | 5 30 |
| T 30 | 13 53 | 15 48 | 3 31 | 22 28 | 2 45 | 3 0 | 1 23 | 2 15 | 1 46 | 22 53 | 0 9 | 2 41 | 2 15 | 23 9 | 0 26 | 22 26 | 1 3 | 14 45 | 8 18 | 23 13 | 23 18 | 12 17 | 17 38 | 5 30 |
| W31 | 14s13 | 11n26 | 4s18 | 22s25 | 2s39 | 2n34 | 1n26 | 2n16 | 1s42 | 22n53 | 0s 9 | 2s43 | 2n15 | 23s 9 | 0s26 | 22s26 | 1n 3 | 14n45 | 8s18 | 23s13 | 23s18 | 12n20 | 17s39 | 5n30 |

Julian Day Number = 2326540.5, Delta T = 37.93 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'47, Lahiri = 19°04'48Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## NOVEMBER 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 42 40 | 9♏ 2'25 | 1♍41 | 28°R30 | 28♍ 2 | 9°R33 | 10°R50 | 12♎13 | 14♑21 | 0♑23 | 18°R49 | 21°R31 | 22♐53 | 20♈51 | 20♐22 | T 1 |
| F 2 | 2 46 37 | 10° 2'40 | 16° 2 | 28♏26 | 29°12 | 9♈28 | 10♋49 | 12°20 | 14°23 | 0°24 | 18♊48 | 21♐27 | 22°50 | 20°57 | 20°28 | F 2 |
| S 3 | 2 50 33 | 11° 2'57 | 0♎46 | 28°13 | 0♎23 | 9°24 | 10°48 | 12°27 | 14°25 | 0°26 | 18°47 | 21°22 | 22°47 | 21° 4 | 20°33 | S 3 |
| S 4 | 2 54 30 | 12° 3'16 | 15°48 | 27°50 | 1°34 | 9°20 | 10°47 | 12°34 | 14°27 | 0°28 | 18°47 | 21°16 | 22°44 | 21°11 | 20°39 | S 4 |
| M 5 | 2 58 27 | 13° 3'37 | 0♏59 | 27°18 | 2°45 | 9°17 | 10°46 | 12°40 | 14°29 | 0°29 | 18°46 | 21°10 | 22°41 | 21°18 | 20°45 | M 5 |
| T 6 | 3 2 23 | 14° 4'00 | 16°10 | 26°35 | 3°57 | 9°15 | 10°44 | 12°47 | 14°31 | 0°31 | 18°45 | 21° 5 | 22°38 | 21°24 | 20°50 | T 6 |
| W 7 | 3 6 20 | 15° 4'25 | 1♐10 | 25°43 | 5° 8 | 9°14 | 10°42 | 12°54 | 14°33 | 0°33 | 18°44 | 21° 2 | 22°34 | 21°31 | 20°56 | W 7 |
| T 8 | 3 10 16 | 16° 4'51 | 15°50 | 24°42 | 6°19 | 9°D13 | 10°40 | 13° 0 | 14°35 | 0°34 | 18°43 | 21°D 0 | 22°31 | 21°38 | 21° 2 | T 8 |
| F 9 | 3 14 13 | 17° 5'19 | 0♑ 5 | 23°33 | 7°31 | 9°14 | 10°38 | 13° 7 | 14°37 | 0°36 | 18°42 | 21° 0 | 22°28 | 21°44 | 21° 8 | F 9 |
| S 10 | 3 18 9 | 18° 5'48 | 13°53 | 22°17 | 8°43 | 9°15 | 10°36 | 13°13 | 14°40 | 0°38 | 18°41 | 21° 2 | 22°25 | 21°51 | 21°14 | S 10 |
| S 11 | 3 22 6 | 19° 6'18 | 27°14 | 20°58 | 9°54 | 9°17 | 10°33 | 13°20 | 14°42 | 0°40 | 18°40 | 21° 3 | 22°22 | 21°58 | 21°20 | S 11 |
| M12 | 3 26 3 | 20° 6'50 | 10♒ 9 | 19°37 | 11° 6 | 9°19 | 10°30 | 13°26 | 14°44 | 0°41 | 18°39 | 21° 5 | 22°18 | 22° 4 | 21°26 | M12 |
| T 13 | 3 29 59 | 21° 7'23 | 22°43 | 18°17 | 12°18 | 9°23 | 10°27 | 13°32 | 14°47 | 0°43 | 18°38 | 21°R 5 | 22°15 | 22°11 | 21°32 | T 13 |
| W14 | 3 33 56 | 22° 7'57 | 5♓ 0 | 17° 0 | 13°30 | 9°27 | 10°24 | 13°39 | 14°49 | 0°45 | 18°37 | 21° 4 | 22°12 | 22°18 | 21°38 | W14 |
| T 15 | 3 37 52 | 23° 8'33 | 17° 4 | 15°50 | 14°42 | 9°32 | 10°20 | 13°45 | 14°52 | 0°47 | 18°36 | 21° 2 | 22° 9 | 22°25 | 21°44 | T 15 |
| F 16 | 3 41 49 | 24° 9'09 | 29° 1 | 14°49 | 15°55 | 9°38 | 10°17 | 13°51 | 14°54 | 0°49 | 18°35 | 20°59 | 22° 6 | 22°31 | 21°50 | F 16 |
| S 17 | 3 45 45 | 25° 9'47 | 10♈53 | 13°57 | 17° 7 | 9°45 | 10°13 | 13°57 | 14°57 | 0°51 | 18°34 | 20°54 | 22° 3 | 22°38 | 21°56 | S 17 |
| S 18 | 3 49 42 | 26°10'26 | 22°44 | 13°16 | 18°19 | 9°52 | 10° 9 | 14° 4 | 15° 0 | 0°53 | 18°33 | 20°50 | 21°59 | 22°45 | 22° 2 | S 18 |
| M19 | 3 53 38 | 27°11'07 | 4♉37 | 12°46 | 19°32 | 10° 0 | 10° 5 | 14°10 | 15° 2 | 0°55 | 18°32 | 20°46 | 21°56 | 22°51 | 22° 8 | M19 |
| T 20 | 3 57 35 | 28°11'48 | 16°33 | 12°29 | 20°45 | 10° 8 | 10° 1 | 14°16 | 15° 5 | 0°57 | 18°30 | 20°42 | 21°53 | 22°58 | 22°14 | T 20 |
| W21 | 4 1 31 | 29°12'31 | 28°36 | 12°D22 | 21°57 | 10°18 | 9°56 | 14°22 | 15° 8 | 0°59 | 18°29 | 20°39 | 21°50 | 23° 5 | 22°21 | W21 |
| T 22 | 4 5 28 | 0♐13'16 | 10♊46 | 12°27 | 23°10 | 10°28 | 9°52 | 14°27 | 15°10 | 1° 1 | 18°28 | 20°38 | 21°47 | 23°12 | 22°27 | T 22 |
| F 23 | 4 9 25 | 1°14'01 | 23° 5 | 12°41 | 24°23 | 10°38 | 9°47 | 14°33 | 15°13 | 1° 3 | 18°27 | 20°D38 | 21°44 | 23°18 | 22°33 | F 23 |
| S 24 | 4 13 21 | 2°14'49 | 5♋35 | 13° 5 | 25°36 | 10°50 | 9°42 | 14°39 | 15°16 | 1° 5 | 18°26 | 20°38 | 21°40 | 23°25 | 22°39 | S 24 |
| S 25 | 4 17 18 | 3°15'37 | 18°17 | 13°38 | 26°49 | 11° 2 | 9°37 | 14°45 | 15°19 | 1° 7 | 18°25 | 20°39 | 21°37 | 23°32 | 22°46 | S 25 |
| M26 | 4 21 14 | 4°16'27 | 1♌12 | 14°18 | 28° 2 | 11°14 | 9°31 | 14°50 | 15°22 | 1° 9 | 18°24 | 20°41 | 21°34 | 23°38 | 22°52 | M26 |
| T 27 | 4 25 11 | 5°17'18 | 14°23 | 15° 4 | 29°15 | 11°27 | 9°26 | 14°56 | 15°24 | 1°11 | 18°23 | 20°42 | 21°31 | 23°45 | 22°59 | T 27 |
| W28 | 4 29 7 | 6°18'11 | 27°52 | 15°57 | 0♏28 | 11°41 | 9°20 | 15° 2 | 15°27 | 1°13 | 18°22 | 20°43 | 21°28 | 23°52 | 23° 5 | W28 |
| T 29 | 4 33 4 | 7°19'05 | 11♍39 | 16°55 | 1°42 | 11°55 | 9°14 | 15° 7 | 15°30 | 1°15 | 18°20 | 20°R43 | 21°24 | 23°58 | 23°11 | T 29 |
| F 30 | 4 37 1 | 8♐20'00 | 25♍45 | 17♏57 | 2♏55 | 12♈10 | 9♋ 8 | 15♎12 | 15♑33 | 1♑17 | 18♊19 | 20♐42 | 21♐21 | 24♈ 5 | 23♐18 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s32 | 6n21 | 4s52 | 22s19 | 2s31 | 2n 8 | 1n28 | 2n18 | 1s38 | 22n53 | 0s 9 | 2s46 | 2n15 | 23s 8 | 0s26 | 22s26 | 1n 3 | 14n44 | 8s18 | 23s13 | 23s18 | 12n22 | 17s39 | 5n29 |
| F 2 | 14 51 | 0 47 | 5 9 | 22 10 | 2 23 | 1 42 | 1 31 | 2 19 | 1 34 | 22 54 | 0 9 | 2 48 | 2 15 | 23 8 | 0 26 | 22 26 | 1 3 | 14 44 | 8 18 | 23 12 | 23 17 | 12 24 | 17 40 | 5 29 |
| S 3 | 15 10 | 4s59 | 5 6 | 21 57 | 2 13 | 1 16 | 1 33 | 2 21 | 1 30 | 22 54 | 0 9 | 2 51 | 2 15 | 23 8 | 0 26 | 22 26 | 1 2 | 14 44 | 8 18 | 23 12 | 23 17 | 12 26 | 17 41 | 5 29 |
| S 4 | 15 29 | 10 34 | 4 42 | 21 41 | 2 1 | 0 50 | 1 35 | 2 23 | 1 26 | 22 54 | 0 9 | 2 54 | 2 15 | 23 8 | 0 26 | 22 27 | 1 2 | 14 44 | 8 18 | 23 12 | 23 17 | 12 28 | 17 41 | 5 29 |
| M 5 | 15 47 | 15 34 | 3 59 | 21 20 | 1 47 | 0 24 | 1 37 | 2 26 | 1 22 | 22 54 | 0 9 | 2 56 | 2 16 | 23 7 | 0 26 | 22 27 | 1 2 | 14 44 | 8 18 | 23 11 | 23 17 | 12 30 | 17 42 | 5 29 |
| T 6 | 16 5 | 19 33 | 2 58 | 20 55 | 1 32 | 0s 3 | 1 39 | 2 28 | 1 18 | 22 54 | 0 9 | 2 59 | 2 16 | 23 7 | 0 26 | 22 27 | 1 2 | 14 44 | 8 18 | 23 11 | 23 17 | 12 32 | 17 42 | 5 28 |
| W 7 | 16 23 | 22 10 | 1 46 | 20 27 | 1 15 | 0 30 | 1 41 | 2 31 | 1 15 | 22 55 | 0 8 | 3 1 | 2 16 | 23 7 | 0 26 | 22 27 | 1 2 | 14 44 | 8 18 | 23 11 | 23 16 | 12 35 | 17 43 | 5 28 |
| T 8 | 16 41 | 23 12 | 0 28 | 19 54 | 0 57 | 0 56 | 1 43 | 2 34 | 1 11 | 22 55 | 0 8 | 3 3 | 2 16 | 23 7 | 0 26 | 22 27 | 1 2 | 14 43 | 8 18 | 23 11 | 23 16 | 12 37 | 17 43 | 5 28 |
| F 9 | 16 58 | 22 40 | 0n49 | 19 18 | 0 38 | 1 23 | 1 45 | 2 38 | 1 7 | 22 55 | 0 8 | 3 6 | 2 16 | 23 6 | 0 26 | 22 27 | 1 2 | 14 43 | 8 18 | 23 11 | 23 16 | 12 39 | 17 44 | 5 28 |
| S 10 | 17 15 | 20 44 | 2 2 | 18 40 | 0 18 | 1 50 | 1 46 | 2 42 | 1 4 | 22 56 | 0 8 | 3 8 | 2 16 | 23 6 | 0 26 | 22 27 | 1 2 | 14 43 | 8 19 | 23 11 | 23 16 | 12 41 | 17 44 | 5 28 |
| S 11 | 17 32 | 17 43 | 3 5 | 17 59 | 0n 3 | 2 17 | 1 48 | 2 46 | 1 0 | 22 56 | 0 8 | 3 11 | 2 16 | 23 6 | 0 26 | 22 27 | 1 2 | 14 43 | 8 19 | 23 11 | 23 16 | 12 43 | 17 45 | 5 28 |
| M12 | 17 48 | 13 56 | 3 57 | 17 18 | 0 23 | 2 43 | 1 49 | 2 50 | 0 57 | 22 56 | 0 8 | 3 13 | 2 17 | 23 6 | 0 26 | 22 27 | 1 2 | 14 43 | 8 19 | 23 11 | 23 16 | 12 45 | 17 45 | 5 28 |
| T 13 | 18 4 | 9 37 | 4 36 | 16 36 | 0 43 | 3 10 | 1 51 | 2 54 | 0 53 | 22 57 | 0 8 | 3 15 | 2 17 | 23 5 | 0 26 | 22 27 | 1 2 | 14 43 | 8 19 | 23 11 | 23 15 | 12 47 | 17 46 | 5 27 |
| W14 | 18 20 | 5 1 | 5 1 | 15 57 | 1 3 | 3 37 | 1 52 | 2 59 | 0 50 | 22 57 | 0 8 | 3 18 | 2 17 | 23 5 | 0 26 | 22 27 | 1 2 | 14 43 | 8 19 | 23 11 | 23 15 | 12 50 | 17 46 | 5 27 |
| T 15 | 18 36 | 0 19 | 5 13 | 15 20 | 1 20 | 4 4 | 1 53 | 3 4 | 0 47 | 22 57 | 0 8 | 3 20 | 2 17 | 23 5 | 0 26 | 22 27 | 1 2 | 14 43 | 8 19 | 23 11 | 23 15 | 12 52 | 17 47 | 5 27 |
| F 16 | 18 51 | 4n21 | 5 10 | 14 46 | 1 36 | 4 31 | 1 54 | 3 9 | 0 44 | 22 58 | 0 7 | 3 22 | 2 17 | 23 4 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 11 | 23 15 | 12 54 | 17 47 | 5 27 |
| S 17 | 19 5 | 8 50 | 4 55 | 14 18 | 1 50 | 4 58 | 1 55 | 3 15 | 0 40 | 22 58 | 0 7 | 3 24 | 2 17 | 23 4 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 10 | 23 15 | 12 56 | 17 48 | 5 27 |
| S 18 | 19 20 | 12 59 | 4 26 | 13 54 | 2 3 | 5 25 | 1 56 | 3 21 | 0 37 | 22 59 | 0 7 | 3 27 | 2 17 | 23 4 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 10 | 23 14 | 12 58 | 17 48 | 5 27 |
| M19 | 19 34 | 16 38 | 3 47 | 13 36 | 2 12 | 5 52 | 1 56 | 3 26 | 0 34 | 22 59 | 0 7 | 3 29 | 2 18 | 23 4 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 10 | 23 14 | 13 0 | 17 49 | 5 27 |
| T 20 | 19 48 | 19 38 | 2 57 | 13 23 | 2 20 | 6 18 | 1 57 | 3 33 | 0 31 | 22 59 | 0 7 | 3 31 | 2 18 | 23 3 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 9 | 23 14 | 13 2 | 17 49 | 5 27 |
| W21 | 20 1 | 21 49 | 1 58 | 13 15 | 2 26 | 6 45 | 1 57 | 3 39 | 0 28 | 23 0 | 0 7 | 3 33 | 2 18 | 23 3 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 9 | 23 14 | 13 4 | 17 50 | 5 27 |
| T 22 | 20 14 | 23 0 | 0 54 | 13 13 | 2 30 | 7 12 | 1 58 | 3 45 | 0 26 | 23 0 | 0 7 | 3 35 | 2 18 | 23 3 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 9 | 23 14 | 13 6 | 17 50 | 5 26 |
| F 23 | 20 27 | 23 5 | 0s14 | 13 15 | 2 33 | 7 38 | 1 58 | 3 52 | 0 23 | 23 1 | 0 7 | 3 37 | 2 18 | 23 2 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 9 | 23 13 | 13 8 | 17 50 | 5 26 |
| S 24 | 20 39 | 22 0 | 1 22 | 13 21 | 2 34 | 8 5 | 1 58 | 3 59 | 0 20 | 23 1 | 0 6 | 3 39 | 2 19 | 23 2 | 0 26 | 22 27 | 1 2 | 14 42 | 8 19 | 23 9 | 23 13 | 13 10 | 17 51 | 5 26 |
| S 25 | 20 51 | 19 48 | 2 27 | 13 31 | 2 34 | 8 31 | 1 59 | 4 6 | 0 17 | 23 2 | 0 6 | 3 41 | 2 19 | 23 2 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 13 | 13 13 | 17 51 | 5 26 |
| M26 | 21 2 | 16 35 | 3 26 | 13 44 | 2 32 | 8 57 | 1 59 | 4 14 | 0 15 | 23 2 | 0 6 | 3 43 | 2 19 | 23 1 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 13 | 13 15 | 17 52 | 5 26 |
| T 27 | 21 13 | 12 28 | 4 15 | 14 0 | 2 30 | 9 23 | 1 59 | 4 21 | 0 12 | 23 3 | 0 6 | 3 45 | 2 19 | 23 1 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 13 | 13 17 | 17 52 | 5 26 |
| W28 | 21 24 | 7 40 | 4 52 | 14 18 | 2 26 | 9 49 | 1 58 | 4 29 | 0 10 | 23 3 | 0 6 | 3 47 | 2 19 | 23 1 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 12 | 13 19 | 17 52 | 5 26 |
| T 29 | 21 34 | 2 23 | 5 13 | 14 39 | 2 22 | 10 14 | 1 58 | 4 37 | 0 7 | 23 4 | 0 6 | 3 49 | 2 19 | 23 0 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 12 | 13 21 | 17 53 | 5 26 |
| F 30 | 21s44 | 3s 8 | 5s15 | 15s 1 | 2n17 | 10s40 | 1n58 | 4n45 | 0s 5 | 23n 4 | 0s 6 | 3s51 | 2n20 | 23s 0 | 0s26 | 22s27 | 1n 2 | 14n41 | 8s19 | 23s 9 | 23s12 | 13n23 | 17s53 | 5n26 |

Julian Day Number = 2326571.5, Delta T = 37.87 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'52, Lahiri = 19°04'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1657
# geocentric

## DECEMBER 1657 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 40 57 | 9♐20'57 | 10♎ 9 | 19♏ 3 | 4♏ 8 | 12♈25 | 9°R 2 | 15♎18 | 15♑36 | 1♑19 | 18°R18 | 20°R41 | 21♐18 | 24♈12 | 23♐24 | S 1 |
| S 2 | 4 44 54 | 10°21'55 | 24°47 | 20°13 | 5°22 | 12°41 | 8♋56 | 15°23 | 15°39 | 1°22 | 18♊17 | 20♐40 | 21°15 | 24°19 | 23°31 | S 2 |
| M 3 | 4 48 50 | 11°22'54 | 9♏34 | 21°26 | 6°35 | 12°58 | 8°50 | 15°28 | 15°42 | 1°24 | 18°16 | 20°39 | 21°12 | 24°25 | 23°37 | M 3 |
| T 4 | 4 52 47 | 12°23'54 | 24°24 | 22°41 | 7°49 | 13°15 | 8°43 | 15°33 | 15°46 | 1°26 | 18°15 | 20°38 | 21° 9 | 24°32 | 23°44 | T 4 |
| W 5 | 4 56 43 | 13°24'56 | 9♐ 8 | 23°58 | 9° 3 | 13°32 | 8°36 | 15°38 | 15°49 | 1°28 | 18°13 | 20°37 | 21° 5 | 24°39 | 23°50 | W 5 |
| T 6 | 5 0 40 | 14°25'58 | 23°40 | 25°17 | 10°16 | 13°50 | 8°30 | 15°43 | 15°52 | 1°30 | 18°12 | 20°D37 | 21° 2 | 24°45 | 23°57 | T 6 |
| F 7 | 5 4 36 | 15°27'01 | 7♑54 | 26°38 | 11°30 | 14° 9 | 8°23 | 15°48 | 15°55 | 1°32 | 18°11 | 20°38 | 20°59 | 24°52 | 24° 3 | F 7 |
| S 8 | 5 8 33 | 16°28'05 | 21°45 | 28° 0 | 12°44 | 14°28 | 8°16 | 15°53 | 15°58 | 1°35 | 18°10 | 20°38 | 20°56 | 24°59 | 24°10 | S 8 |
| S 9 | 5 12 30 | 17°29'09 | 5♒11 | 29°24 | 13°58 | 14°47 | 8° 9 | 15°58 | 16° 1 | 1°37 | 18° 9 | 20°38 | 20°53 | 25° 5 | 24°16 | S 9 |
| M10 | 5 16 26 | 18°30'14 | 18°13 | 0♐49 | 15°11 | 15° 7 | 8° 1 | 16° 2 | 16° 5 | 1°39 | 18° 8 | 20°39 | 20°50 | 25°12 | 24°23 | M10 |
| T 11 | 5 20 23 | 19°31'19 | 0♓53 | 2°14 | 16°25 | 15°27 | 7°54 | 16° 7 | 16° 8 | 1°41 | 18° 6 | 20°39 | 20°46 | 25°19 | 24°29 | T 11 |
| W12 | 5 24 19 | 20°32'25 | 13°14 | 3°41 | 17°39 | 15°48 | 7°47 | 16°11 | 16°11 | 1°44 | 18° 5 | 20°39 | 20°43 | 25°26 | 24°36 | W12 |
| T 13 | 5 28 16 | 21°33'31 | 25°20 | 5° 8 | 18°53 | 16° 9 | 7°39 | 16°16 | 16°14 | 1°46 | 18° 4 | 20°39 | 20°40 | 25°32 | 24°42 | T 13 |
| F 14 | 5 32 12 | 22°34'37 | 7♈17 | 6°35 | 20° 7 | 16°31 | 7°31 | 16°20 | 16°18 | 1°48 | 18° 3 | 20°39 | 20°37 | 25°39 | 24°49 | F 14 |
| S 15 | 5 36 9 | 23°35'44 | 19° 8 | 8° 4 | 21°21 | 16°53 | 7°24 | 16°24 | 16°21 | 1°50 | 18° 2 | 20°39 | 20°34 | 25°46 | 24°56 | S 15 |
| S 16 | 5 40 5 | 24°36'50 | 0♉59 | 9°32 | 22°35 | 17°15 | 7°16 | 16°28 | 16°24 | 1°53 | 18° 1 | 20°40 | 20°30 | 25°52 | 25° 2 | S 16 |
| M17 | 5 44 2 | 25°37'57 | 12°53 | 11° 2 | 23°50 | 17°38 | 7° 8 | 16°33 | 16°28 | 1°55 | 17°59 | 20°40 | 20°27 | 25°59 | 25° 9 | M17 |
| T 18 | 5 47 59 | 26°39'05 | 24°55 | 12°31 | 25° 4 | 18° 1 | 7° 0 | 16°37 | 16°31 | 1°57 | 17°58 | 20°41 | 20°24 | 26° 6 | 25°15 | T 18 |
| W19 | 5 51 55 | 27°40'12 | 7♊ 6 | 14° 1 | 26°18 | 18°25 | 6°52 | 16°40 | 16°35 | 1°59 | 17°57 | 20°41 | 20°21 | 26°12 | 25°22 | W19 |
| T 20 | 5 55 52 | 28°41'20 | 19°29 | 15°32 | 27°32 | 18°49 | 6°45 | 16°44 | 16°38 | 2° 2 | 17°56 | 20°R41 | 20°18 | 26°19 | 25°28 | T 20 |
| F 21 | 5 59 48 | 29°42'28 | 2♋ 5 | 17° 3 | 28°46 | 19°13 | 6°37 | 16°48 | 16°42 | 2° 4 | 17°55 | 20°41 | 20°15 | 26°26 | 25°35 | F 21 |
| S 22 | 6 3 45 | 0♑43'37 | 14°55 | 18°34 | 0♐ 1 | 19°37 | 6°28 | 16°52 | 16°45 | 2° 6 | 17°54 | 20°41 | 20°11 | 26°33 | 25°41 | S 22 |
| S 23 | 6 7 41 | 1°44'46 | 28° 0 | 20° 5 | 1°15 | 20° 2 | 6°20 | 16°55 | 16°48 | 2° 8 | 17°53 | 20°39 | 20° 8 | 26°39 | 25°48 | S 23 |
| M24 | 6 11 38 | 2°45'55 | 11♌17 | 21°37 | 2°29 | 20°27 | 6°12 | 16°59 | 16°52 | 2°11 | 17°51 | 20°38 | 20° 5 | 26°46 | 25°54 | M24 |
| T 25 | 6 15 34 | 3°47'04 | 24°48 | 23° 9 | 3°44 | 20°53 | 6° 4 | 17° 2 | 16°55 | 2°13 | 17°50 | 20°36 | 20° 2 | 26°53 | 26° 1 | T 25 |
| W26 | 6 19 31 | 4°48'14 | 8♍30 | 24°41 | 4°58 | 21°18 | 5°56 | 17° 5 | 16°59 | 2°15 | 17°49 | 20°34 | 19°59 | 26°59 | 26° 7 | W26 |
| T 27 | 6 23 28 | 5°49'24 | 22°23 | 26°14 | 6°13 | 21°44 | 5°48 | 17° 8 | 17° 2 | 2°17 | 17°48 | 20°33 | 19°56 | 27° 6 | 26°14 | T 27 |
| F 28 | 6 27 24 | 6°50'34 | 6♎25 | 27°47 | 7°27 | 22°11 | 5°40 | 17°12 | 17° 6 | 2°20 | 17°47 | 20°D33 | 19°52 | 27°13 | 26°20 | F 28 |
| S 29 | 6 31 21 | 7°51'45 | 20°36 | 29°21 | 8°42 | 22°37 | 5°32 | 17°15 | 17° 9 | 2°22 | 17°46 | 20°33 | 19°49 | 27°19 | 26°27 | S 29 |
| S 30 | 6 35 17 | 8°52'56 | 4♏52 | 0♑54 | 9°56 | 23° 4 | 5°24 | 17°17 | 17°13 | 2°24 | 17°45 | 20°34 | 19°46 | 27°26 | 26°33 | S 30 |
| M31 | 6 39 14 | 9♑54'07 | 19♏12 | 2♑28 | 11♐11 | 23♈31 | 5♋16 | 17♎20 | 17♑16 | 2♑27 | 17♊44 | 20♐36 | 19♐43 | 27♈33 | 26♐40 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s54 | 8s36 | 4s59 | 15s24 | 2n12 | 11s 5 | 1n57 | 4n53 | 0s 2 | 23n 5 | 0s 6 | 3s53 | 2n20 | 23s 0 | 0s26 | 22s27 | 1n 2 | 14n41 | 8s19 | 23s 9 | 23s12 | 13n25 | 17s53 | 5n26 |
| S 2 | 22 3 | 13 41 | 4 22 | 15 48 | 2 6 | 11 30 | 1 57 | 5 1 | 0 0 | 23 6 | 0 5 | 3 55 | 2 20 | 22 59 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 12 | 13 27 | 17 54 | 5 26 |
| M 3 | 22 11 | 18 0 | 3 29 | 16 13 | 2 0 | 11 54 | 1 56 | 5 10 | 0n 2 | 23 6 | 0 5 | 3 57 | 2 20 | 22 59 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 11 | 13 29 | 17 54 | 5 26 |
| T 4 | 22 19 | 21 10 | 2 20 | 16 39 | 1 54 | 12 19 | 1 56 | 5 18 | 0 4 | 23 7 | 0 5 | 3 58 | 2 21 | 22 58 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 11 | 13 31 | 17 54 | 5 26 |
| W 5 | 22 27 | 22 54 | 1 3 | 17 4 | 1 47 | 12 43 | 1 55 | 5 27 | 0 7 | 23 7 | 0 5 | 4 0 | 2 21 | 22 58 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 11 | 13 33 | 17 55 | 5 26 |
| T 6 | 22 34 | 23 3 | 0n17 | 17 30 | 1 40 | 13 7 | 1 54 | 5 36 | 0 9 | 23 8 | 0 5 | 4 2 | 2 21 | 22 58 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 11 | 13 35 | 17 55 | 5 26 |
| F 7 | 22 41 | 21 41 | 1 34 | 17 56 | 1 33 | 13 31 | 1 53 | 5 45 | 0 11 | 23 8 | 0 5 | 4 3 | 2 21 | 22 57 | 0 26 | 22 27 | 1 2 | 14 41 | 8 19 | 23 9 | 23 11 | 13 37 | 17 55 | 5 26 |
| S 8 | 22 48 | 19 1 | 2 44 | 18 22 | 1 25 | 13 54 | 1 52 | 5 54 | 0 13 | 23 9 | 0 5 | 4 5 | 2 21 | 22 57 | 0 26 | 22 27 | 1 2 | 14 40 | 8 19 | 23 9 | 23 10 | 13 39 | 17 55 | 5 26 |
| S 9 | 22 54 | 15 24 | 3 43 | 18 48 | 1 18 | 14 17 | 1 51 | 6 4 | 0 15 | 23 9 | 0 4 | 4 7 | 2 22 | 22 57 | 0 26 | 22 27 | 1 2 | 14 40 | 8 19 | 23 9 | 23 10 | 13 41 | 17 56 | 5 26 |
| M10 | 22 59 | 11 9 | 4 28 | 19 13 | 1 10 | 14 40 | 1 50 | 6 13 | 0 17 | 23 10 | 0 4 | 4 8 | 2 22 | 22 56 | 0 26 | 22 27 | 1 2 | 14 40 | 8 19 | 23 9 | 23 10 | 13 43 | 17 56 | 5 26 |
| T 11 | 23 4 | 6 31 | 4 59 | 19 37 | 1 3 | 15 2 | 1 49 | 6 23 | 0 18 | 23 11 | 0 4 | 4 10 | 2 22 | 22 56 | 0 26 | 22 27 | 1 2 | 14 40 | 8 19 | 23 9 | 23 10 | 13 45 | 17 56 | 5 26 |
| W12 | 23 9 | 1 45 | 5 15 | 20 1 | 0 55 | 15 24 | 1 48 | 6 33 | 0 20 | 23 11 | 0 4 | 4 11 | 2 22 | 22 55 | 0 26 | 22 27 | 1 1 | 14 40 | 8 19 | 23 9 | 23 9 | 13 47 | 17 56 | 5 27 |
| T 13 | 23 13 | 2n59 | 5 16 | 20 25 | 0 48 | 15 46 | 1 46 | 6 42 | 0 22 | 23 12 | 0 4 | 4 13 | 2 23 | 22 55 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 9 | 13 49 | 17 56 | 5 27 |
| F 14 | 23 16 | 7 33 | 5 4 | 20 48 | 0 40 | 16 7 | 1 45 | 6 52 | 0 24 | 23 12 | 0 4 | 4 14 | 2 23 | 22 55 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 9 | 13 51 | 17 56 | 5 27 |
| S 15 | 23 20 | 11 49 | 4 39 | 21 10 | 0 32 | 16 28 | 1 43 | 7 2 | 0 26 | 23 13 | 0 4 | 4 16 | 2 23 | 22 54 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 9 | 13 53 | 17 57 | 5 27 |
| S 16 | 23 22 | 15 37 | 4 2 | 21 31 | 0 25 | 16 49 | 1 42 | 7 12 | 0 27 | 23 13 | 0 4 | 4 17 | 2 23 | 22 54 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 9 | 13 55 | 17 57 | 5 27 |
| M17 | 23 25 | 18 50 | 3 15 | 21 51 | 0 17 | 17 9 | 1 40 | 7 23 | 0 29 | 23 14 | 0 3 | 4 18 | 2 23 | 22 53 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 8 | 13 57 | 17 57 | 5 27 |
| T 18 | 23 26 | 21 16 | 2 18 | 22 10 | 0 10 | 17 28 | 1 38 | 7 33 | 0 30 | 23 15 | 0 3 | 4 20 | 2 24 | 22 53 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 8 | 13 59 | 17 57 | 5 27 |
| W19 | 23 28 | 22 46 | 1 15 | 22 29 | 0 3 | 17 48 | 1 37 | 7 43 | 0 32 | 23 15 | 0 3 | 4 21 | 2 24 | 22 52 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 8 | 14 1 | 17 57 | 5 27 |
| T 20 | 23 29 | 23 11 | 0 7 | 22 46 | 0s 4 | 18 6 | 1 35 | 7 54 | 0 33 | 23 16 | 0 3 | 4 22 | 2 24 | 22 52 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 8 | 14 3 | 17 57 | 5 27 |
| F 21 | 23 29 | 22 25 | 1s 3 | 23 2 | 0 11 | 18 25 | 1 33 | 8 4 | 0 35 | 23 16 | 0 3 | 4 23 | 2 24 | 22 52 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 7 | 14 5 | 17 57 | 5 27 |
| S 22 | 23 29 | 20 29 | 2 10 | 23 18 | 0 18 | 18 42 | 1 31 | 8 15 | 0 36 | 23 17 | 0 3 | 4 25 | 2 25 | 22 51 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 7 | 14 7 | 17 57 | 5 28 |
| S 23 | 23 28 | 17 28 | 3 12 | 23 32 | 0 25 | 19 0 | 1 29 | 8 26 | 0 38 | 23 17 | 0 3 | 4 26 | 2 25 | 22 51 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 7 | 14 9 | 17 57 | 5 28 |
| M24 | 23 27 | 13 30 | 4 5 | 23 45 | 0 32 | 19 16 | 1 27 | 8 37 | 0 39 | 23 18 | 0 2 | 4 27 | 2 25 | 22 50 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 7 | 14 11 | 17 57 | 5 28 |
| T 25 | 23 26 | 8 48 | 4 45 | 23 57 | 0 38 | 19 33 | 1 25 | 8 47 | 0 41 | 23 18 | 0 2 | 4 28 | 2 25 | 22 50 | 0 26 | 22 27 | 1 1 | 14 40 | 8 18 | 23 9 | 23 6 | 14 13 | 17 57 | 5 28 |
| W26 | 23 24 | 3 37 | 5 9 | 24 7 | 0 45 | 19 48 | 1 23 | 8 58 | 0 42 | 23 19 | 0 2 | 4 29 | 2 26 | 22 49 | 0 26 | 22 27 | 1 1 | 14 40 | 8 17 | 23 9 | 23 6 | 14 15 | 17 58 | 5 28 |
| T 27 | 23 21 | 1s49 | 5 16 | 24 17 | 0 51 | 20 4 | 1 21 | 9 9 | 0 43 | 23 19 | 0 2 | 4 30 | 2 26 | 22 49 | 0 26 | 22 26 | 1 1 | 14 40 | 8 17 | 23 9 | 23 6 | 14 17 | 17 58 | 5 28 |
| F 28 | 23 18 | 7 12 | 5 4 | 24 25 | 0 57 | 20 18 | 1 19 | 9 20 | 0 44 | 23 20 | 0 2 | 4 31 | 2 26 | 22 49 | 0 26 | 22 26 | 1 1 | 14 40 | 8 17 | 23 9 | 23 6 | 14 19 | 17 58 | 5 29 |
| S 29 | 23 15 | 12 17 | 4 34 | 24 32 | 1 3 | 20 32 | 1 16 | 9 31 | 0 46 | 23 20 | 0 2 | 4 32 | 2 27 | 22 48 | 0 26 | 22 26 | 1 1 | 14 40 | 8 17 | 23 9 | 23 6 | 14 21 | 17 58 | 5 29 |
| S 30 | 23 11 | 16 43 | 3 47 | 24 37 | 1 8 | 20 46 | 1 14 | 9 42 | 0 47 | 23 21 | 0 2 | 4 32 | 2 27 | 22 48 | 0 26 | 22 26 | 1 1 | 14 40 | 8 17 | 23 9 | 23 5 | 14 23 | 17 57 | 5 29 |
| M31 | 23s 7 | 20s12 | 2s45 | 24s41 | 1s14 | 20s59 | 1n12 | 9n53 | 0n48 | 23n21 | 0s 1 | 4s33 | 2n27 | 22s47 | 0s26 | 22s26 | 1n 1 | 14n40 | 8s17 | 23s 9 | 23s 5 | 14n25 | 17s57 | 5n29 |

Julian Day Number = 2326601.5, Delta T = 37.81 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°57'56, Lahiri = 19°04'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## JANUARY 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 43 10 | 10♑55'18 | 3♐32 | 4♑ 3 | 12♐25 | 23♈58 | 5°R 7 | 17♎23 | 17♑20 | 2♑29 | 17°R43 | 20♐37 | 19♐40 | 27♈39 | 26♐46 | T 1 |
| W 2 | 6 47 7 | 11°56'30 | 17°48 | 5°38 | 13°40 | 24°26 | 4♋59 | 17°25 | 17°24 | 2°31 | 17♊42 | 20°R37 | 19°36 | 27°46 | 26°53 | W 2 |
| T 3 | 6 51 3 | 12°57'41 | 1♑57 | 7°13 | 14°54 | 24°54 | 4°51 | 17°28 | 17°27 | 2°33 | 17°40 | 20°37 | 19°33 | 27°53 | 26°59 | T 3 |
| F 4 | 6 55 0 | 13°58'53 | 15°53 | 8°49 | 16° 9 | 25°22 | 4°43 | 17°30 | 17°31 | 2°36 | 17°39 | 20°36 | 19°30 | 28° 0 | 27° 5 | F 4 |
| S 5 | 6 58 57 | 15° 0'04 | 29°34 | 10°25 | 17°24 | 25°50 | 4°36 | 17°33 | 17°34 | 2°38 | 17°38 | 20°33 | 19°27 | 28° 6 | 27°12 | S 5 |
| S 6 | 7 2 53 | 16° 1'14 | 12♒55 | 12° 1 | 18°38 | 26°19 | 4°28 | 17°35 | 17°38 | 2°40 | 17°37 | 20°29 | 19°24 | 28°13 | 27°18 | S 6 |
| M 7 | 7 6 50 | 17° 2'25 | 25°57 | 13°38 | 19°53 | 26°47 | 4°20 | 17°37 | 17°41 | 2°42 | 17°36 | 20°24 | 19°21 | 28°20 | 27°24 | M 7 |
| T 8 | 7 10 46 | 18° 3'34 | 8♓38 | 15°16 | 21° 7 | 27°16 | 4°12 | 17°39 | 17°45 | 2°44 | 17°35 | 20°20 | 19°17 | 28°26 | 27°30 | T 8 |
| W 9 | 7 14 43 | 19° 4'43 | 21° 2 | 16°54 | 22°22 | 27°46 | 4° 5 | 17°41 | 17°48 | 2°47 | 17°34 | 20°16 | 19°14 | 28°33 | 27°37 | W 9 |
| T 10 | 7 18 39 | 20° 5'51 | 3♈11 | 18°32 | 23°37 | 28°15 | 3°57 | 17°43 | 17°52 | 2°49 | 17°33 | 20°13 | 19°11 | 28°40 | 27°43 | T 10 |
| F 11 | 7 22 36 | 21° 6'58 | 15° 9 | 20°11 | 24°51 | 28°45 | 3°50 | 17°44 | 17°55 | 2°51 | 17°32 | 20°12 | 19° 8 | 28°46 | 27°49 | F 11 |
| S 12 | 7 26 32 | 22° 8'05 | 27° 1 | 21°51 | 26° 6 | 29°14 | 3°42 | 17°46 | 17°59 | 2°53 | 17°31 | 20°D12 | 19° 5 | 28°53 | 27°55 | S 12 |
| S 13 | 7 30 29 | 23° 9'11 | 8♉51 | 23°31 | 27°21 | 29°44 | 3°35 | 17°47 | 18° 3 | 2°55 | 17°31 | 20°13 | 19° 2 | 29° 0 | 28° 1 | S 13 |
| M14 | 7 34 26 | 24°10'16 | 20°45 | 25°11 | 28°36 | 0♉14 | 3°28 | 17°49 | 18° 6 | 2°58 | 17°30 | 20°15 | 18°58 | 29° 6 | 28° 7 | M14 |
| T 15 | 7 38 22 | 25°11'20 | 2♊48 | 26°52 | 29°50 | 0°45 | 3°21 | 17°50 | 18°10 | 3° 0 | 17°29 | 20°16 | 18°55 | 29°13 | 28°13 | T 15 |
| W16 | 7 42 19 | 26°12'23 | 15° 4 | 28°34 | 1♑ 5 | 1°15 | 3°14 | 17°51 | 18°13 | 3° 2 | 17°28 | 20°R17 | 18°52 | 29°20 | 28°19 | W16 |
| T 17 | 7 46 15 | 27°13'25 | 27°37 | 0♒16 | 2°20 | 1°46 | 3° 7 | 17°52 | 18°17 | 3° 4 | 17°27 | 20°17 | 18°49 | 29°27 | 28°25 | T 17 |
| F 18 | 7 50 12 | 28°14'27 | 10♋28 | 1°59 | 3°34 | 2°17 | 3° 0 | 17°53 | 18°20 | 3° 6 | 17°26 | 20°15 | 18°46 | 29°33 | 28°31 | F 18 |
| S 19 | 7 54 8 | 29°15'28 | 23°38 | 3°42 | 4°49 | 2°48 | 2°54 | 17°54 | 18°24 | 3° 8 | 17°25 | 20°12 | 18°42 | 29°40 | 28°37 | S 19 |
| S 20 | 7 58 5 | 0♒16'27 | 7♌ 8 | 5°26 | 6° 4 | 3°19 | 2°47 | 17°55 | 18°27 | 3°10 | 17°24 | 20° 6 | 18°39 | 29°47 | 28°43 | S 20 |
| M21 | 8 2 2 | 1°17'26 | 20°54 | 7°10 | 7°19 | 3°50 | 2°41 | 17°55 | 18°31 | 3°12 | 17°24 | 19°59 | 18°36 | 29°53 | 28°49 | M21 |
| T 22 | 8 5 58 | 2°18'24 | 4♍53 | 8°54 | 8°33 | 4°21 | 2°35 | 17°56 | 18°34 | 3°14 | 17°23 | 19°52 | 18°33 | 0♉ 0 | 28°55 | T 22 |
| W23 | 8 9 55 | 3°19'21 | 19° 0 | 10°39 | 9°48 | 4°53 | 2°29 | 17°56 | 18°38 | 3°16 | 17°22 | 19°45 | 18°30 | 0° 7 | 29° 0 | W23 |
| T 24 | 8 13 51 | 4°20'18 | 3♎13 | 12°25 | 11° 3 | 5°25 | 2°23 | 17°56 | 18°41 | 3°18 | 17°21 | 19°40 | 18°27 | 0°13 | 29° 6 | T 24 |
| F 25 | 8 17 48 | 5°21'14 | 17°26 | 14°10 | 12°18 | 5°57 | 2°17 | 17°57 | 18°45 | 3°20 | 17°21 | 19°36 | 18°23 | 0°20 | 29°12 | F 25 |
| S 26 | 8 21 44 | 6°22'09 | 1♏37 | 15°56 | 13°32 | 6°28 | 2°11 | 17°R57 | 18°48 | 3°22 | 17°20 | 19°D35 | 18°20 | 0°27 | 29°17 | S 26 |
| S 27 | 8 25 41 | 7°23'03 | 15°43 | 17°41 | 14°47 | 7° 1 | 2° 6 | 17°57 | 18°51 | 3°24 | 17°19 | 19°35 | 18°17 | 0°33 | 29°23 | S 27 |
| M28 | 8 29 37 | 8°23'57 | 29°45 | 19°26 | 16° 2 | 7°33 | 2° 1 | 17°57 | 18°55 | 3°26 | 17°18 | 19°36 | 18°14 | 0°40 | 29°28 | M28 |
| T 29 | 8 33 34 | 9°24'50 | 13♐40 | 21°11 | 17°17 | 8° 5 | 1°56 | 17°56 | 18°58 | 3°28 | 17°18 | 19°R37 | 18°11 | 0°47 | 29°34 | T 29 |
| W30 | 8 37 31 | 10°25'42 | 27°29 | 22°56 | 18°32 | 8°38 | 1°51 | 17°56 | 19° 2 | 3°30 | 17°17 | 19°37 | 18° 8 | 0°54 | 29°39 | W30 |
| T 31 | 8 41 27 | 11♒26'33 | 11♑ 9 | 24♒39 | 19♑46 | 9♉10 | 1♋46 | 17♎56 | 19♑ 5 | 3♑32 | 17♊16 | 19♐35 | 18♐ 4 | 1♉ 0 | 29♐45 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 2 | 22s25 | 1s33 | 24s44 | 1s19 | 21s11 | 1n 9 | 10n 5 | 0n49 | 23n22 | 0s 1 | 4s34 | 2n27 | 22s47 | 0s26 | 22s26 | 1n 1 | 14n40 | 8s17 | 23s 9 | 23s 5 | 14n27 | 17s57 | 5n29 |
| W 2 | 22 57 | 23 11 | 0 16 | 24 46 | 1 24 | 21 23 | 1 7 | 10 16 | 0 50 | 23 22 | 0 1 | 4 35 | 2 28 | 22 46 | 0 26 | 22 26 | 1 1 | 14 40 | 8 17 | 23 9 | 23 5 | 14 29 | 17 57 | 5 30 |
| T 3 | 22 51 | 22 26 | 1n 2 | 24 46 | 1 29 | 21 34 | 1 4 | 10 27 | 0 51 | 23 23 | 0 1 | 4 36 | 2 28 | 22 46 | 0 26 | 22 26 | 1 1 | 14 40 | 8 17 | 23 9 | 23 4 | 14 30 | 17 57 | 5 30 |
| F 4 | 22 45 | 20 18 | 2 15 | 24 45 | 1 33 | 21 44 | 1 2 | 10 38 | 0 52 | 23 23 | 0 1 | 4 36 | 2 28 | 22 45 | 0 26 | 22 26 | 1 1 | 14 40 | 8 16 | 23 9 | 23 4 | 14 32 | 17 57 | 5 30 |
| S 5 | 22 38 | 17 3 | 3 18 | 24 42 | 1 38 | 21 54 | 0 59 | 10 50 | 0 53 | 23 24 | 0 1 | 4 37 | 2 28 | 22 45 | 0 26 | 22 26 | 1 1 | 14 40 | 8 16 | 23 9 | 23 4 | 14 34 | 17 57 | 5 30 |
| S 6 | 22 31 | 12 59 | 4 9 | 24 38 | 1 42 | 22 3 | 0 57 | 11 1 | 0 54 | 23 24 | 0 1 | 4 37 | 2 29 | 22 45 | 0 26 | 22 26 | 1 1 | 14 40 | 8 16 | 23 8 | 23 4 | 14 36 | 17 57 | 5 30 |
| M 7 | 22 24 | 8 25 | 4 45 | 24 32 | 1 45 | 22 12 | 0 54 | 11 12 | 0 55 | 23 24 | 0 0 | 4 38 | 2 29 | 22 44 | 0 26 | 22 26 | 1 1 | 14 40 | 8 16 | 23 8 | 23 3 | 14 38 | 17 57 | 5 31 |
| T 8 | 22 16 | 3 36 | 5 7 | 24 25 | 1 49 | 22 20 | 0 52 | 11 24 | 0 56 | 23 25 | 0 0 | 4 38 | 2 29 | 22 44 | 0 26 | 22 26 | 1 1 | 14 40 | 8 16 | 23 8 | 23 3 | 14 40 | 17 57 | 5 31 |
| W 9 | 22 7 | 1n14 | 5 13 | 24 16 | 1 52 | 22 27 | 0 49 | 11 35 | 0 57 | 23 25 | 0 0 | 4 39 | 2 30 | 22 43 | 0 26 | 22 26 | 1 1 | 14 40 | 8 16 | 23 8 | 23 3 | 14 42 | 17 56 | 5 31 |
| T 10 | 21 59 | 5 56 | 5 5 | 24 6 | 1 55 | 22 33 | 0 46 | 11 47 | 0 58 | 23 25 | 0n 0 | 4 39 | 2 30 | 22 43 | 0 26 | 22 26 | 1 1 | 14 40 | 8 16 | 23 7 | 23 3 | 14 44 | 17 56 | 5 32 |
| F 11 | 21 49 | 10 21 | 4 44 | 23 54 | 1 57 | 22 39 | 0 44 | 11 58 | 0 59 | 23 26 | 0 0 | 4 40 | 2 30 | 22 42 | 0 26 | 22 26 | 1 1 | 14 40 | 8 15 | 23 7 | 23 2 | 14 46 | 17 56 | 5 32 |
| S 12 | 21 40 | 14 19 | 4 11 | 23 40 | 2 0 | 22 44 | 0 41 | 12 9 | 1 0 | 23 26 | 0 0 | 4 40 | 2 30 | 22 42 | 0 26 | 22 26 | 1 1 | 14 41 | 8 15 | 23 7 | 23 2 | 14 48 | 17 56 | 5 32 |
| S 13 | 21 30 | 17 45 | 3 27 | 23 26 | 2 1 | 22 49 | 0 38 | 12 21 | 1 1 | 23 27 | 0 0 | 4 40 | 2 31 | 22 41 | 0 26 | 22 26 | 1 1 | 14 41 | 8 15 | 23 7 | 23 2 | 14 49 | 17 56 | 5 32 |
| M14 | 21 19 | 20 27 | 2 34 | 23 9 | 2 3 | 22 53 | 0 36 | 12 32 | 1 2 | 23 27 | 0 1 | 4 41 | 2 31 | 22 41 | 0 26 | 22 26 | 1 1 | 14 41 | 8 15 | 23 7 | 23 1 | 14 51 | 17 56 | 5 33 |
| T 15 | 21 8 | 22 18 | 1 34 | 22 51 | 2 4 | 22 56 | 0 33 | 12 44 | 1 2 | 23 27 | 0 1 | 4 41 | 2 31 | 22 40 | 0 26 | 22 26 | 1 1 | 14 41 | 8 15 | 23 8 | 23 1 | 14 53 | 17 55 | 5 33 |
| W16 | 20 57 | 23 7 | 0 28 | 22 31 | 2 5 | 22 58 | 0 30 | 12 55 | 1 3 | 23 28 | 0 1 | 4 41 | 2 31 | 22 40 | 0 26 | 22 26 | 1 1 | 14 41 | 8 15 | 23 8 | 23 1 | 14 55 | 17 55 | 5 33 |
| T 17 | 20 45 | 22 48 | 0s40 | 22 10 | 2 5 | 23 0 | 0 28 | 13 6 | 1 4 | 23 28 | 0 1 | 4 41 | 2 32 | 22 39 | 0 26 | 22 26 | 1 1 | 14 41 | 8 15 | 23 8 | 23 1 | 14 57 | 17 55 | 5 34 |
| F 18 | 20 33 | 21 17 | 1 48 | 21 47 | 2 5 | 23 1 | 0 25 | 13 18 | 1 5 | 23 28 | 0 1 | 4 41 | 2 32 | 22 39 | 0 26 | 22 26 | 1 1 | 14 41 | 8 14 | 23 7 | 23 0 | 14 59 | 17 55 | 5 34 |
| S 19 | 20 21 | 18 36 | 2 51 | 21 22 | 2 4 | 23 2 | 0 22 | 13 29 | 1 5 | 23 28 | 0 1 | 4 41 | 2 32 | 22 38 | 0 26 | 22 25 | 1 1 | 14 41 | 8 14 | 23 7 | 23 0 | 15 1 | 17 54 | 5 34 |
| S 20 | 20 8 | 14 52 | 3 47 | 20 56 | 2 3 | 23 1 | 0 19 | 13 41 | 1 6 | 23 29 | 0 1 | 4 41 | 2 33 | 22 38 | 0 26 | 22 25 | 1 1 | 14 41 | 8 14 | 23 7 | 23 0 | 15 2 | 17 54 | 5 35 |
| M21 | 19 55 | 10 17 | 4 30 | 20 28 | 2 2 | 23 0 | 0 17 | 13 52 | 1 7 | 23 29 | 0 2 | 4 41 | 2 33 | 22 38 | 0 26 | 22 25 | 1 1 | 14 41 | 8 14 | 23 6 | 23 0 | 15 4 | 17 54 | 5 35 |
| T 22 | 19 41 | 5 7 | 4 58 | 19 59 | 2 0 | 22 58 | 0 14 | 14 3 | 1 7 | 23 29 | 0 2 | 4 41 | 2 33 | 22 37 | 0 26 | 22 25 | 1 1 | 14 41 | 8 14 | 23 6 | 22 59 | 15 6 | 17 53 | 5 35 |
| W23 | 19 27 | 0s23 | 5 9 | 19 28 | 1 57 | 22 56 | 0 11 | 14 14 | 1 8 | 23 29 | 0 2 | 4 41 | 2 33 | 22 37 | 0 26 | 22 25 | 1 1 | 14 42 | 8 13 | 23 5 | 22 59 | 15 8 | 17 53 | 5 36 |
| T 24 | 19 13 | 5 52 | 5 0 | 18 56 | 1 54 | 22 53 | 0 8 | 14 26 | 1 9 | 23 30 | 0 2 | 4 41 | 2 34 | 22 36 | 0 26 | 22 25 | 1 1 | 14 42 | 8 13 | 23 5 | 22 59 | 15 10 | 17 53 | 5 36 |
| F 25 | 18 58 | 11 4 | 4 33 | 18 22 | 1 50 | 22 49 | 0 6 | 14 37 | 1 9 | 23 30 | 0 2 | 4 41 | 2 34 | 22 36 | 0 26 | 22 25 | 1 1 | 14 42 | 8 13 | 23 5 | 22 58 | 15 12 | 17 52 | 5 36 |
| S 26 | 18 43 | 15 39 | 3 50 | 17 46 | 1 45 | 22 45 | 0 3 | 14 48 | 1 10 | 23 30 | 0 2 | 4 41 | 2 34 | 22 35 | 0 26 | 22 25 | 1 1 | 14 42 | 8 13 | 23 4 | 22 58 | 15 13 | 17 52 | 5 37 |
| S 27 | 18 28 | 19 20 | 2 52 | 17 9 | 1 40 | 22 39 | 0 0 | 14 59 | 1 10 | 23 30 | 0 2 | 4 40 | 2 35 | 22 35 | 0 26 | 22 25 | 1 1 | 14 42 | 8 13 | 23 4 | 22 58 | 15 15 | 17 52 | 5 37 |
| M28 | 18 12 | 21 51 | 1 45 | 16 31 | 1 35 | 22 33 | 0s 2 | 15 10 | 1 11 | 23 31 | 0 3 | 4 40 | 2 35 | 22 34 | 0 26 | 22 25 | 1 1 | 14 42 | 8 13 | 23 5 | 22 58 | 15 17 | 17 51 | 5 38 |
| T 29 | 17 56 | 23 1 | 0 32 | 15 51 | 1 28 | 22 27 | 0 5 | 15 21 | 1 12 | 23 31 | 0 3 | 4 40 | 2 35 | 22 34 | 0 26 | 22 25 | 1 1 | 14 42 | 8 12 | 23 5 | 22 57 | 15 19 | 17 51 | 5 38 |
| W30 | 17 39 | 22 45 | 0n42 | 15 11 | 1 21 | 22 19 | 0 8 | 15 32 | 1 12 | 23 31 | 0 3 | 4 39 | 2 35 | 22 33 | 0 26 | 22 25 | 1 1 | 14 42 | 8 12 | 23 5 | 22 57 | 15 21 | 17 51 | 5 38 |
| T 31 | 17s23 | 21s 8 | 1n53 | 14s29 | 1s13 | 22s11 | 0s10 | 15n43 | 1n13 | 23n31 | 0n 3 | 4s39 | 2n36 | 22s33 | 0s26 | 22s25 | 1n 1 | 14n43 | 8s12 | 23s 4 | 22s57 | 15n23 | 17s50 | 5n39 |

Julian Day Number = 2326632.5, Delta T = 37.76 sec
Ecliptic obliquity = 23°28'59, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'00, Lahiri = 19°05'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## FEBRUARY 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 45 24 | 12♒27'23 | 24♉40 | 26♒22 | 21♉ 1 | 9♋43 | 1°R41 | 17°R55 | 19♉ 8 | 3♉34 | 17°R16 | 19°R30 | 18♐ 1 | 1♋ 7 | 29♐50 | F 1 |
| S 2 | 8 49 20 | 13°28'12 | 7♒59 | 28° 3 | 22°16 | 10°16 | 1♋37 | 17♎54 | 19°12 | 3°36 | 17♊15 | 19♐23 | 17°58 | 1°14 | 29°55 | S 2 |
| S 3 | 8 53 17 | 14°28'59 | 21° 5 | 29°42 | 23°31 | 10°49 | 1°33 | 17°54 | 19°15 | 3°38 | 17°15 | 19°14 | 17°55 | 1°20 | 0♉ 0 | S 3 |
| M 4 | 8 57 13 | 15°29'45 | 3♓56 | 1♓18 | 24°46 | 11°22 | 1°28 | 17°53 | 19°18 | 3°39 | 17°14 | 19° 3 | 17°52 | 1°27 | 0° 6 | M 4 |
| T 5 | 9 1 10 | 16°30'30 | 16°32 | 2°52 | 26° 0 | 11°55 | 1°25 | 17°52 | 19°22 | 3°41 | 17°14 | 18°52 | 17°48 | 1°34 | 0°11 | T 5 |
| W 6 | 9 5 6 | 17°31'13 | 28°52 | 4°23 | 27°15 | 12°28 | 1°21 | 17°51 | 19°25 | 3°43 | 17°13 | 18°42 | 17°45 | 1°40 | 0°16 | W 6 |
| T 7 | 9 9 3 | 18°31'54 | 11♈ 0 | 5°49 | 28°30 | 13° 1 | 1°17 | 17°49 | 19°28 | 3°45 | 17°13 | 18°33 | 17°42 | 1°47 | 0°21 | T 7 |
| F 8 | 9 13 0 | 19°32'34 | 22°57 | 7°11 | 29°45 | 13°35 | 1°14 | 17°48 | 19°31 | 3°47 | 17°12 | 18°27 | 17°39 | 1°54 | 0°26 | F 8 |
| S 9 | 9 16 56 | 20°33'12 | 4♉48 | 8°27 | 1♒ 0 | 14° 8 | 1°11 | 17°47 | 19°34 | 3°48 | 17°12 | 18°24 | 17°36 | 2° 0 | 0°31 | S 9 |
| S 10 | 9 20 53 | 21°33'49 | 16°37 | 9°37 | 2°14 | 14°42 | 1° 8 | 17°45 | 19°38 | 3°50 | 17°11 | 18°D22 | 17°33 | 2° 7 | 0°35 | S 10 |
| M11 | 9 24 49 | 22°34'24 | 28°30 | 10°41 | 3°29 | 15°15 | 1° 5 | 17°44 | 19°41 | 3°52 | 17°11 | 18°22 | 17°29 | 2°14 | 0°40 | M11 |
| T 12 | 9 28 46 | 23°34'57 | 10♊32 | 11°37 | 4°44 | 15°49 | 1° 3 | 17°42 | 19°44 | 3°53 | 17°10 | 18°23 | 17°26 | 2°20 | 0°45 | T 12 |
| W13 | 9 32 42 | 24°35'28 | 22°48 | 12°25 | 5°59 | 16°23 | 1° 0 | 17°40 | 19°47 | 3°55 | 17°10 | 18°R23 | 17°23 | 2°27 | 0°49 | W13 |
| T 14 | 9 36 39 | 25°35'58 | 5♋23 | 13° 4 | 7°13 | 16°57 | 0°58 | 17°38 | 19°50 | 3°56 | 17°10 | 18°21 | 17°20 | 2°34 | 0°54 | T 14 |
| F 15 | 9 40 35 | 26°36'25 | 18°20 | 13°34 | 8°28 | 17°31 | 0°56 | 17°36 | 19°53 | 3°58 | 17° 9 | 18°18 | 17°17 | 2°40 | 0°59 | F 15 |
| S 16 | 9 44 32 | 27°36'51 | 1♌43 | 13°54 | 9°43 | 18° 5 | 0°54 | 17°34 | 19°56 | 4° 0 | 17° 9 | 18°11 | 17°14 | 2°47 | 1° 3 | S 16 |
| S 17 | 9 48 29 | 28°37'15 | 15°31 | 14° 4 | 10°58 | 18°39 | 0°53 | 17°32 | 19°59 | 4° 1 | 17° 9 | 18° 3 | 17°10 | 2°54 | 1° 7 | S 17 |
| M18 | 9 52 25 | 29°37'37 | 29°40 | 14°R 5 | 12°12 | 19°13 | 0°51 | 17°30 | 20° 2 | 4° 3 | 17° 9 | 17°52 | 17° 7 | 3° 1 | 1°12 | M18 |
| T 19 | 9 56 22 | 0♓37'58 | 14♍ 7 | 13°55 | 13°27 | 19°48 | 0°50 | 17°28 | 20° 5 | 4° 4 | 17° 8 | 17°40 | 17° 4 | 3° 7 | 1°16 | T 19 |
| W20 | 10 0 18 | 1°38'16 | 28°44 | 13°36 | 14°42 | 20°22 | 0°49 | 17°25 | 20° 8 | 4° 5 | 17° 8 | 17°29 | 17° 1 | 3°14 | 1°20 | W20 |
| T 21 | 10 4 15 | 2°38'34 | 13♎24 | 13° 7 | 15°57 | 20°56 | 0°49 | 17°23 | 20°11 | 4° 7 | 17° 8 | 17°20 | 16°58 | 3°21 | 1°24 | T 21 |
| F 22 | 10 8 11 | 3°38'49 | 27°59 | 12°30 | 17°11 | 21°31 | 0°48 | 17°20 | 20°13 | 4° 8 | 17° 8 | 17°13 | 16°54 | 3°27 | 1°28 | F 22 |
| S 23 | 10 12 8 | 4°39'04 | 12♏24 | 11°46 | 18°26 | 22° 6 | 0°48 | 17°17 | 20°16 | 4°10 | 17° 8 | 17° 9 | 16°51 | 3°34 | 1°32 | S 23 |
| S 24 | 10 16 4 | 5°39'16 | 26°37 | 10°55 | 19°41 | 22°40 | 0°D47 | 17°14 | 20°19 | 4°11 | 17° 7 | 17° 8 | 16°48 | 3°41 | 1°36 | S 24 |
| M25 | 10 20 1 | 6°39'28 | 10♐35 | 9°59 | 20°55 | 23°15 | 0°47 | 17°12 | 20°22 | 4°12 | 17° 7 | 17° 8 | 16°45 | 3°47 | 1°40 | M25 |
| T 26 | 10 23 57 | 7°39'38 | 24°19 | 9° 0 | 22°10 | 23°49 | 0°48 | 17° 9 | 20°24 | 4°13 | 17° 7 | 17° 8 | 16°42 | 3°54 | 1°44 | T 26 |
| W27 | 10 27 54 | 8°39'46 | 7♑49 | 7°59 | 23°25 | 24°24 | 0°48 | 17° 6 | 20°27 | 4°15 | 17° 7 | 17° 6 | 16°39 | 4° 1 | 1°47 | W27 |
| T 28 | 10 31 51 | 9♓39'53 | 21♉ 8 | 6♓57 | 24♒40 | 24♋59 | 0♋49 | 17♎ 2 | 20♉30 | 4♉16 | 17♊ 7 | 17♐ 3 | 16♐35 | 4♋ 7 | 1♉51 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s 6 | 18s20 | 2n57 | 13s46 | 1s 5 | 22s 3 | 0s13 | 15n54 | 1n13 | 23n31 | 0n 3 | 4s38 | 2n36 | 22s32 | 0s26 | 22s25 | 1n 1 | 14n43 | 8s12 | 23s 4 | 22s57 | 15n24 | 17s50 | 5n39 |
| S 2 | 16 49 | 14 36 | 3 50 | 13 3 | 0 56 | 21 54 | 0 15 | 16 5 | 1 14 | 23 32 | 0 3 | 4 38 | 2 36 | 22 32 | 0 26 | 22 25 | 1 1 | 14 43 | 8 12 | 23 3 | 22 56 | 15 26 | 17 49 | 5 40 |
| S 3 | 16 31 | 10 15 | 4 29 | 12 19 | 0 46 | 21 44 | 0 18 | 16 16 | 1 14 | 23 32 | 0 3 | 4 37 | 2 36 | 22 32 | 0 26 | 22 25 | 1 1 | 14 43 | 8 11 | 23 3 | 22 56 | 15 28 | 17 49 | 5 40 |
| M 4 | 16 13 | 5 31 | 4 54 | 11 34 | 0 35 | 21 33 | 0 20 | 16 27 | 1 15 | 23 32 | 0 3 | 4 37 | 2 37 | 22 31 | 0 26 | 22 25 | 1 1 | 14 43 | 8 11 | 23 2 | 22 56 | 15 30 | 17 48 | 5 41 |
| T 5 | 15 55 | 0 39 | 5 4 | 10 50 | 0 23 | 21 22 | 0 23 | 16 38 | 1 15 | 23 32 | 0 4 | 4 36 | 2 37 | 22 31 | 0 26 | 22 24 | 1 1 | 14 43 | 8 11 | 23 1 | 22 55 | 15 31 | 17 48 | 5 41 |
| W 6 | 15 37 | 4n 8 | 5 0 | 10 5 | 0 11 | 21 10 | 0 25 | 16 48 | 1 16 | 23 32 | 0 4 | 4 35 | 2 37 | 22 30 | 0 26 | 22 24 | 1 2 | 14 43 | 8 11 | 23 0 | 22 55 | 15 33 | 17 48 | 5 41 |
| T 7 | 15 18 | 8 41 | 4 42 | 9 22 | 0n 2 | 20 57 | 0 28 | 16 59 | 1 16 | 23 32 | 0 4 | 4 35 | 2 38 | 22 30 | 0 26 | 22 24 | 1 2 | 14 44 | 8 11 | 22 59 | 22 55 | 15 35 | 17 47 | 5 42 |
| F 8 | 14 59 | 12 50 | 4 12 | 8 39 | 0 16 | 20 44 | 0 30 | 17 9 | 1 16 | 23 33 | 0 4 | 4 34 | 2 38 | 22 29 | 0 26 | 22 24 | 1 2 | 14 44 | 8 10 | 22 59 | 22 55 | 15 37 | 17 47 | 5 42 |
| S 9 | 14 40 | 16 27 | 3 31 | 7 57 | 0 30 | 20 30 | 0 33 | 17 20 | 1 17 | 23 33 | 0 4 | 4 33 | 2 38 | 22 29 | 0 26 | 22 24 | 1 2 | 14 44 | 8 10 | 22 59 | 22 54 | 15 39 | 17 46 | 5 43 |
| S 10 | 14 21 | 19 24 | 2 41 | 7 17 | 0 45 | 20 16 | 0 35 | 17 30 | 1 17 | 23 33 | 0 4 | 4 32 | 2 38 | 22 28 | 0 26 | 22 24 | 1 2 | 14 44 | 8 10 | 22 58 | 22 54 | 15 40 | 17 46 | 5 43 |
| M11 | 14 1 | 21 33 | 1 44 | 6 39 | 1 0 | 20 1 | 0 37 | 17 41 | 1 18 | 23 33 | 0 4 | 4 32 | 2 39 | 22 28 | 0 26 | 22 24 | 1 2 | 14 44 | 8 10 | 22 58 | 22 54 | 15 42 | 17 45 | 5 44 |
| T 12 | 13 41 | 22 45 | 0 42 | 6 3 | 1 16 | 19 45 | 0 40 | 17 51 | 1 18 | 23 33 | 0 4 | 4 31 | 2 39 | 22 28 | 0 26 | 22 24 | 1 2 | 14 44 | 8 10 | 22 58 | 22 53 | 15 44 | 17 45 | 5 44 |
| W13 | 13 21 | 22 54 | 0s24 | 5 31 | 1 31 | 19 29 | 0 42 | 18 1 | 1 18 | 23 33 | 0 5 | 4 30 | 2 39 | 22 27 | 0 26 | 22 24 | 1 2 | 14 45 | 8 9 | 22 58 | 22 53 | 15 46 | 17 44 | 5 45 |
| T 14 | 13 1 | 21 53 | 1 29 | 5 1 | 1 47 | 19 13 | 0 44 | 18 11 | 1 19 | 23 33 | 0 5 | 4 29 | 2 39 | 22 27 | 0 26 | 22 24 | 1 2 | 14 45 | 8 9 | 22 58 | 22 53 | 15 47 | 17 44 | 5 45 |
| F 15 | 12 40 | 19 43 | 2 32 | 4 35 | 2 2 | 18 55 | 0 46 | 18 21 | 1 19 | 23 34 | 0 5 | 4 28 | 2 40 | 22 26 | 0 26 | 22 24 | 1 2 | 14 45 | 8 9 | 22 58 | 22 52 | 15 49 | 17 43 | 5 46 |
| S 16 | 12 19 | 16 25 | 3 29 | 4 13 | 2 18 | 18 37 | 0 48 | 18 31 | 1 19 | 23 34 | 0 5 | 4 27 | 2 40 | 22 26 | 0 26 | 22 24 | 1 2 | 14 45 | 8 9 | 22 57 | 22 52 | 15 51 | 17 42 | 5 46 |
| S 17 | 11 59 | 12 9 | 4 15 | 3 56 | 2 32 | 18 19 | 0 50 | 18 41 | 1 20 | 23 34 | 0 5 | 4 26 | 2 40 | 22 25 | 0 26 | 22 24 | 1 2 | 14 45 | 8 8 | 22 57 | 22 52 | 15 53 | 17 42 | 5 47 |
| M18 | 11 37 | 7 8 | 4 47 | 3 43 | 2 46 | 18 0 | 0 52 | 18 51 | 1 20 | 23 34 | 0 5 | 4 25 | 2 40 | 22 25 | 0 26 | 22 24 | 1 2 | 14 46 | 8 8 | 22 56 | 22 52 | 15 54 | 17 41 | 5 47 |
| T 19 | 11 16 | 1 38 | 5 1 | 3 35 | 2 59 | 17 41 | 0 54 | 19 0 | 1 20 | 23 34 | 0 5 | 4 24 | 2 41 | 22 25 | 0 26 | 22 24 | 1 2 | 14 46 | 8 8 | 22 55 | 22 51 | 15 56 | 17 41 | 5 48 |
| W20 | 10 55 | 4s 1 | 4 56 | 3 32 | 3 11 | 17 21 | 0 56 | 19 10 | 1 21 | 23 34 | 0 5 | 4 22 | 2 41 | 22 24 | 0 26 | 22 23 | 1 2 | 14 46 | 8 8 | 22 54 | 22 51 | 15 58 | 17 40 | 5 48 |
| T 21 | 10 33 | 9 27 | 4 31 | 3 33 | 3 21 | 17 1 | 0 58 | 19 19 | 1 21 | 23 34 | 0 5 | 4 21 | 2 41 | 22 24 | 0 26 | 22 23 | 1 2 | 14 46 | 8 8 | 22 53 | 22 51 | 15 59 | 17 40 | 5 49 |
| F 22 | 10 11 | 14 20 | 3 49 | 3 39 | 3 29 | 16 40 | 1 0 | 19 29 | 1 21 | 23 34 | 0 6 | 4 20 | 2 41 | 22 23 | 0 26 | 22 23 | 1 2 | 14 46 | 8 7 | 22 52 | 22 50 | 16 1 | 17 39 | 5 49 |
| S 23 | 9 49 | 18 20 | 2 53 | 3 50 | 3 36 | 16 18 | 1 2 | 19 38 | 1 21 | 23 35 | 0 6 | 4 19 | 2 41 | 22 23 | 0 26 | 22 23 | 1 2 | 14 47 | 8 7 | 22 52 | 22 50 | 16 3 | 17 38 | 5 50 |
| S 24 | 9 27 | 21 9 | 1 46 | 4 5 | 3 41 | 15 57 | 1 3 | 19 47 | 1 22 | 23 35 | 0 6 | 4 18 | 2 42 | 22 23 | 0 26 | 22 23 | 1 2 | 14 47 | 8 7 | 22 52 | 22 50 | 16 4 | 17 38 | 5 51 |
| M25 | 9 5 | 22 39 | 0 35 | 4 24 | 3 43 | 15 34 | 1 5 | 19 56 | 1 22 | 23 35 | 0 6 | 4 16 | 2 42 | 22 22 | 0 26 | 22 23 | 1 2 | 14 47 | 8 7 | 22 52 | 22 49 | 16 6 | 17 37 | 5 51 |
| T 26 | 8 43 | 22 44 | 0n38 | 4 45 | 3 43 | 15 12 | 1 7 | 20 5 | 1 22 | 23 35 | 0 6 | 4 15 | 2 42 | 22 22 | 0 26 | 22 23 | 1 2 | 14 47 | 8 6 | 22 52 | 22 49 | 16 8 | 17 37 | 5 52 |
| W27 | 8 20 | 21 28 | 1 47 | 5 10 | 3 42 | 14 49 | 1 8 | 20 14 | 1 22 | 23 35 | 0 6 | 4 14 | 2 42 | 22 21 | 0 26 | 22 23 | 1 2 | 14 47 | 8 6 | 22 51 | 22 49 | 16 10 | 17 36 | 5 52 |
| T 28 | 7s58 | 19s 2 | 2n49 | 5s36 | 3n38 | 14s25 | 1s10 | 20n23 | 1n23 | 23n35 | 0n 6 | 4s12 | 2n43 | 22s21 | 0s26 | 22s23 | 1n 2 | 14n48 | 8s 6 | 22s51 | 22s48 | 16n11 | 17s35 | 5n53 |

Julian Day Number = 2326663.5, Delta T = 37.70 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'19, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'04, Lahiri = 19°05'05Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## MARCH 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 35 47 | 10♓39'58 | 4♒15 | 5°R55 | 25♒54 | 25♉34 | 0♋49 | 16°R59 | 20♑32 | 4♑17 | 17°D 7 | 16°R56 | 16♐32 | 4♉14 | 1♑54 | F 1 |
| S 2 | 10 39 44 | 11°40'01 | 17°11 | 4♓56 | 27° 9 | 26° 9 | 0°50 | 16♎56 | 20°35 | 4°18 | 17♊ 7 | 16♐47 | 16°29 | 4°21 | 1°58 | S 2 |
| S 3 | 10 43 40 | 12°40'02 | 29°57 | 4° 1 | 28°24 | 26°44 | 0°52 | 16°53 | 20°37 | 4°19 | 17° 7 | 16°34 | 16°26 | 4°27 | 2° 1 | S 3 |
| M 4 | 10 47 37 | 13°40'02 | 12♓31 | 3° 9 | 29°38 | 27°19 | 0°53 | 16°49 | 20°40 | 4°20 | 17° 7 | 16°21 | 16°23 | 4°34 | 2° 5 | M 4 |
| T 5 | 10 51 33 | 14°39'59 | 24°54 | 2°23 | 0♓53 | 27°54 | 0°55 | 16°46 | 20°42 | 4°21 | 17° 7 | 16° 6 | 16°19 | 4°41 | 2° 8 | T 5 |
| W 6 | 10 55 30 | 15°39'55 | 7♈ 6 | 1°42 | 2° 8 | 28°29 | 0°56 | 16°42 | 20°45 | 4°23 | 17° 7 | 15°53 | 16°16 | 4°47 | 2°11 | W 6 |
| T 7 | 10 59 26 | 16°39'49 | 19° 8 | 1° 7 | 3°22 | 29° 4 | 0°58 | 16°38 | 20°47 | 4°24 | 17° 7 | 15°41 | 16°13 | 4°54 | 2°14 | T 7 |
| F 8 | 11 3 23 | 17°39'40 | 1♉ 3 | 0°39 | 4°37 | 29°40 | 1° 0 | 16°35 | 20°49 | 4°24 | 17° 8 | 15°32 | 16°10 | 5° 1 | 2°17 | F 8 |
| S 9 | 11 7 20 | 18°39'29 | 12°52 | 0°17 | 5°51 | 0♊15 | 1° 3 | 16°31 | 20°52 | 4°25 | 17° 8 | 15°26 | 16° 7 | 5° 7 | 2°20 | S 9 |
| S 10 | 11 11 16 | 19°39'17 | 24°39 | 0° 2 | 7° 6 | 0°50 | 1° 5 | 16°27 | 20°54 | 4°26 | 17° 8 | 15°22 | 16° 4 | 5°14 | 2°23 | S 10 |
| M11 | 11 15 13 | 20°39'02 | 6♊30 | 29♒53 | 8°21 | 1°26 | 1° 8 | 16°23 | 20°56 | 4°27 | 17° 8 | 15°21 | 16° 0 | 5°21 | 2°25 | M11 |
| T 12 | 11 19 9 | 21°38'44 | 18°30 | 29°D50 | 9°35 | 2° 1 | 1°11 | 16°19 | 20°58 | 4°28 | 17° 8 | 15°21 | 15°57 | 5°28 | 2°28 | T 12 |
| W13 | 11 23 6 | 22°38'25 | 0♋43 | 29°53 | 10°50 | 2°37 | 1°14 | 16°15 | 21° 0 | 4°29 | 17° 9 | 15°20 | 15°54 | 5°34 | 2°31 | W13 |
| T 14 | 11 27 2 | 23°38'03 | 13°15 | 0♓ 2 | 12° 4 | 3°12 | 1°17 | 16°11 | 21° 3 | 4°30 | 17° 9 | 15°19 | 15°51 | 5°41 | 2°33 | T 14 |
| F 15 | 11 30 59 | 24°37'39 | 26°12 | 0°17 | 13°19 | 3°48 | 1°21 | 16° 7 | 21° 5 | 4°30 | 17° 9 | 15°16 | 15°48 | 5°48 | 2°36 | F 15 |
| S 16 | 11 34 55 | 25°37'12 | 9♌36 | 0°37 | 14°33 | 4°23 | 1°24 | 16° 3 | 21° 7 | 4°31 | 17°10 | 15°10 | 15°45 | 5°54 | 2°38 | S 16 |
| S 17 | 11 38 52 | 26°36'43 | 23°29 | 1° 1 | 15°48 | 4°59 | 1°28 | 15°59 | 21° 9 | 4°32 | 17°10 | 15° 2 | 15°41 | 6° 1 | 2°40 | S 17 |
| M18 | 11 42 49 | 27°36'12 | 7♍50 | 1°31 | 17° 2 | 5°34 | 1°32 | 15°55 | 21°10 | 4°32 | 17°10 | 14°51 | 15°38 | 6° 8 | 2°42 | M18 |
| T 19 | 11 46 45 | 28°35'39 | 22°33 | 2° 4 | 18°17 | 6°10 | 1°36 | 15°50 | 21°12 | 4°33 | 17°11 | 14°40 | 15°35 | 6°14 | 2°44 | T 19 |
| W20 | 11 50 42 | 29°35'04 | 7♎31 | 2°42 | 19°31 | 6°46 | 1°41 | 15°46 | 21°14 | 4°34 | 17°11 | 14°29 | 15°32 | 6°21 | 2°46 | W20 |
| T 21 | 11 54 38 | 0♈34'27 | 22°35 | 3°24 | 20°46 | 7°22 | 1°45 | 15°42 | 21°16 | 4°34 | 17°11 | 14°20 | 15°29 | 6°28 | 2°48 | T 21 |
| F 22 | 11 58 35 | 1°33'47 | 7♏34 | 4° 9 | 22° 0 | 7°57 | 1°50 | 15°37 | 21°18 | 4°35 | 17°12 | 14°13 | 15°25 | 6°34 | 2°50 | F 22 |
| S 23 | 12 2 31 | 2°33'06 | 22°21 | 4°58 | 23°15 | 8°33 | 1°55 | 15°33 | 21°19 | 4°35 | 17°12 | 14° 9 | 15°22 | 6°41 | 2°52 | S 23 |
| S 24 | 12 6 28 | 3°32'24 | 6♐49 | 5°50 | 24°29 | 9° 9 | 2° 0 | 15°28 | 21°21 | 4°36 | 17°13 | 14° 7 | 15°19 | 6°48 | 2°53 | S 24 |
| M25 | 12 10 24 | 4°31'39 | 20°57 | 6°46 | 25°44 | 9°45 | 2° 5 | 15°24 | 21°23 | 4°36 | 17°13 | 14°D 7 | 15°16 | 6°54 | 2°55 | M25 |
| T 26 | 12 14 21 | 5°30'53 | 4♑43 | 7°44 | 26°58 | 10°21 | 2°10 | 15°19 | 21°24 | 4°36 | 17°14 | 14°R 8 | 15°13 | 7° 1 | 2°56 | T 26 |
| W27 | 12 18 18 | 6°30'05 | 18°10 | 8°45 | 28°12 | 10°56 | 2°16 | 15°15 | 21°26 | 4°37 | 17°14 | 14° 7 | 15°10 | 7° 8 | 2°58 | W27 |
| T 28 | 12 22 14 | 7°29'15 | 1♒18 | 9°48 | 29°27 | 11°32 | 2°21 | 15°10 | 21°27 | 4°37 | 17°15 | 14° 5 | 15° 6 | 7°14 | 2°59 | T 28 |
| F 29 | 12 26 11 | 8°28'23 | 14°11 | 10°54 | 0♈41 | 12° 8 | 2°27 | 15° 6 | 21°28 | 4°37 | 17°16 | 14° 0 | 15° 3 | 7°21 | 3° 0 | F 29 |
| S 30 | 12 30 7 | 9°27'30 | 26°50 | 12° 3 | 1°56 | 12°44 | 2°33 | 15° 1 | 21°30 | 4°38 | 17°16 | 13°52 | 15° 0 | 7°28 | 3° 1 | S 30 |
| S 31 | 12 34 4 | 10♈26'34 | 9♓18 | 13♓14 | 3♈10 | 13♊20 | 2♋39 | 14♎56 | 21♑31 | 4♑38 | 17♊17 | 13♐42 | 14♐57 | 7♉34 | 3♑ 2 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 7s35 | 15s39 | 3n41 | 6s 4 | 3n32 | 14s 1 | 1s11 | 20n32 | 1n23 | 23n35 | 0n 6 | 4s11 | 2n43 | 22s21 | 0s26 | 22s23 | 1n 2 | 14n48 | 8s 6 | 22s50 | 22s48 | 16n13 | 17s35 | 5n53 |
| S 2 | 7 12 | 11 34 | 4 21 | 6 33 | 3 24 | 13 37 | 1 12 | 20 40 | 1 23 | 23 35 | 0 6 | 4 9 | 2 43 | 22 20 | 0 26 | 22 23 | 1 2 | 14 48 | 8 6 | 22 49 | 22 48 | 16 15 | 17 34 | 5 54 |
| S 3 | 6 49 | 7 1 | 4 47 | 7 2 | 3 15 | 13 12 | 1 14 | 20 49 | 1 23 | 23 35 | 0 7 | 4 8 | 2 43 | 22 20 | 0 26 | 22 23 | 1 2 | 14 48 | 8 5 | 22 48 | 22 47 | 16 16 | 17 34 | 5 55 |
| M 4 | 6 26 | 2 16 | 4 59 | 7 30 | 3 4 | 12 47 | 1 15 | 20 57 | 1 23 | 23 35 | 0 7 | 4 6 | 2 43 | 22 20 | 0 26 | 22 23 | 1 2 | 14 49 | 8 5 | 22 47 | 22 47 | 16 18 | 17 33 | 5 55 |
| T 5 | 6 3 | 2n30 | 4 56 | 7 58 | 2 52 | 12 22 | 1 16 | 21 5 | 1 24 | 23 36 | 0 7 | 4 5 | 2 43 | 22 19 | 0 27 | 22 23 | 1 2 | 14 49 | 8 5 | 22 45 | 22 47 | 16 20 | 17 32 | 5 56 |
| W 6 | 5 40 | 7 6 | 4 40 | 8 25 | 2 39 | 11 56 | 1 17 | 21 13 | 1 24 | 23 36 | 0 7 | 4 3 | 2 44 | 22 19 | 0 27 | 22 23 | 1 2 | 14 49 | 8 5 | 22 44 | 22 46 | 16 21 | 17 32 | 5 56 |
| T 7 | 5 16 | 11 22 | 4 11 | 8 49 | 2 26 | 11 30 | 1 18 | 21 21 | 1 24 | 23 36 | 0 7 | 4 2 | 2 44 | 22 19 | 0 27 | 22 23 | 1 2 | 14 49 | 8 4 | 22 43 | 22 46 | 16 23 | 17 31 | 5 57 |
| F 8 | 4 53 | 15 9 | 3 31 | 9 13 | 2 12 | 11 4 | 1 20 | 21 29 | 1 24 | 23 36 | 0 7 | 4 0 | 2 44 | 22 18 | 0 27 | 22 23 | 1 2 | 14 49 | 8 4 | 22 42 | 22 46 | 16 25 | 17 30 | 5 58 |
| S 9 | 4 30 | 18 19 | 2 43 | 9 34 | 1 57 | 10 38 | 1 20 | 21 37 | 1 24 | 23 36 | 0 7 | 3 59 | 2 44 | 22 18 | 0 27 | 22 22 | 1 2 | 14 50 | 8 4 | 22 41 | 22 45 | 16 26 | 17 30 | 5 58 |
| S 10 | 4 6 | 20 42 | 1 47 | 9 53 | 1 43 | 10 11 | 1 21 | 21 44 | 1 24 | 23 36 | 0 7 | 3 57 | 2 44 | 22 18 | 0 27 | 22 22 | 1 2 | 14 50 | 8 4 | 22 41 | 22 45 | 16 28 | 17 29 | 5 59 |
| M11 | 3 43 | 22 12 | 0 47 | 10 10 | 1 28 | 9 44 | 1 22 | 21 52 | 1 24 | 23 36 | 0 7 | 3 55 | 2 44 | 22 17 | 0 27 | 22 22 | 1 2 | 14 50 | 8 4 | 22 41 | 22 45 | 16 29 | 17 28 | 5 59 |
| T 12 | 3 19 | 22 42 | 0s17 | 10 24 | 1 13 | 9 16 | 1 23 | 21 59 | 1 25 | 23 36 | 0 7 | 3 54 | 2 45 | 22 17 | 0 27 | 22 22 | 1 2 | 14 50 | 8 3 | 22 41 | 22 44 | 16 31 | 17 28 | 6 0 |
| W13 | 2 56 | 22 8 | 1 21 | 10 37 | 0 59 | 8 49 | 1 24 | 22 6 | 1 25 | 23 36 | 0 8 | 3 52 | 2 45 | 22 17 | 0 27 | 22 22 | 1 2 | 14 51 | 8 3 | 22 41 | 22 44 | 16 33 | 17 27 | 6 1 |
| T 14 | 2 32 | 20 28 | 2 22 | 10 47 | 0 45 | 8 21 | 1 24 | 22 13 | 1 25 | 23 36 | 0 8 | 3 50 | 2 45 | 22 16 | 0 27 | 22 22 | 1 2 | 14 51 | 8 3 | 22 40 | 22 44 | 16 34 | 17 26 | 6 1 |
| F 15 | 2 8 | 17 42 | 3 18 | 10 55 | 0 31 | 7 53 | 1 25 | 22 20 | 1 25 | 23 36 | 0 8 | 3 49 | 2 45 | 22 16 | 0 27 | 22 22 | 1 2 | 14 51 | 8 3 | 22 40 | 22 43 | 16 36 | 17 26 | 6 2 |
| S 16 | 1 45 | 13 56 | 4 6 | 11 0 | 0 18 | 7 24 | 1 25 | 22 27 | 1 25 | 23 36 | 0 8 | 3 47 | 2 45 | 22 16 | 0 27 | 22 22 | 1 2 | 14 51 | 8 2 | 22 39 | 22 43 | 16 38 | 17 25 | 6 2 |
| S 17 | 1 21 | 9 18 | 4 41 | 11 4 | 0 5 | 6 56 | 1 26 | 22 34 | 1 25 | 23 36 | 0 8 | 3 45 | 2 45 | 22 16 | 0 27 | 22 22 | 1 2 | 14 52 | 8 2 | 22 38 | 22 43 | 16 39 | 17 24 | 6 3 |
| M18 | 0 57 | 4 1 | 4 59 | 11 5 | 0s 8 | 6 27 | 1 26 | 22 40 | 1 25 | 23 36 | 0 8 | 3 44 | 2 45 | 22 15 | 0 27 | 22 22 | 1 2 | 14 52 | 8 2 | 22 37 | 22 42 | 16 41 | 17 24 | 6 4 |
| T 19 | 0 34 | 1s36 | 4 58 | 11 4 | 0 20 | 5 58 | 1 27 | 22 47 | 1 25 | 23 36 | 0 8 | 3 42 | 2 46 | 22 15 | 0 27 | 22 22 | 1 2 | 14 52 | 8 2 | 22 36 | 22 42 | 16 42 | 17 23 | 6 4 |
| W20 | 0 10 | 7 14 | 4 38 | 11 1 | 0 32 | 5 29 | 1 27 | 22 53 | 1 25 | 23 37 | 0 8 | 3 40 | 2 46 | 22 15 | 0 27 | 22 22 | 1 2 | 14 52 | 8 2 | 22 35 | 22 42 | 16 44 | 17 22 | 6 5 |
| T 21 | 0n14 | 12 28 | 3 57 | 10 57 | 0 43 | 5 0 | 1 27 | 22 59 | 1 26 | 23 37 | 0 8 | 3 38 | 2 46 | 22 15 | 0 27 | 22 22 | 1 2 | 14 53 | 8 1 | 22 34 | 22 41 | 16 45 | 17 22 | 6 6 |
| F 22 | 0 37 | 16 55 | 3 1 | 10 50 | 0 53 | 4 31 | 1 27 | 23 5 | 1 26 | 23 37 | 0 8 | 3 37 | 2 46 | 22 14 | 0 27 | 22 22 | 1 2 | 14 53 | 8 1 | 22 33 | 22 41 | 16 47 | 17 21 | 6 6 |
| S 23 | 1 1 | 20 12 | 1 53 | 10 41 | 1 4 | 4 1 | 1 27 | 23 11 | 1 26 | 23 37 | 0 8 | 3 35 | 2 46 | 22 14 | 0 27 | 22 22 | 1 2 | 14 53 | 8 1 | 22 32 | 22 41 | 16 49 | 17 20 | 6 7 |
| S 24 | 1 25 | 22 7 | 0 39 | 10 31 | 1 13 | 3 32 | 1 27 | 23 16 | 1 26 | 23 37 | 0 9 | 3 33 | 2 46 | 22 14 | 0 27 | 22 22 | 1 3 | 14 53 | 8 1 | 22 32 | 22 40 | 16 50 | 17 20 | 6 8 |
| M25 | 1 48 | 22 34 | 0n36 | 10 19 | 1 22 | 3 2 | 1 27 | 23 22 | 1 26 | 23 37 | 0 9 | 3 31 | 2 46 | 22 14 | 0 27 | 22 22 | 1 3 | 14 54 | 8 0 | 22 32 | 22 40 | 16 52 | 17 19 | 6 8 |
| T 26 | 2 12 | 21 37 | 1 47 | 10 5 | 1 31 | 2 32 | 1 27 | 23 27 | 1 26 | 23 37 | 0 9 | 3 29 | 2 46 | 22 13 | 0 27 | 22 22 | 1 3 | 14 54 | 8 0 | 22 32 | 22 40 | 16 53 | 17 18 | 6 9 |
| W27 | 2 35 | 19 26 | 2 51 | 9 50 | 1 38 | 2 3 | 1 27 | 23 33 | 1 26 | 23 37 | 0 9 | 3 28 | 2 46 | 22 13 | 0 27 | 22 22 | 1 3 | 14 54 | 8 0 | 22 32 | 22 39 | 16 55 | 17 18 | 6 10 |
| T 28 | 2 59 | 16 16 | 3 43 | 9 32 | 1 46 | 1 33 | 1 27 | 23 38 | 1 26 | 23 37 | 0 9 | 3 26 | 2 46 | 22 13 | 0 27 | 22 22 | 1 3 | 14 55 | 8 0 | 22 32 | 22 39 | 16 56 | 17 17 | 6 10 |
| F 29 | 3 22 | 12 24 | 4 24 | 9 14 | 1 53 | 1 3 | 1 26 | 23 42 | 1 26 | 23 37 | 0 9 | 3 24 | 2 46 | 22 13 | 0 27 | 22 22 | 1 3 | 14 55 | 8 0 | 22 31 | 22 39 | 16 58 | 17 16 | 6 11 |
| S 30 | 3 45 | 8 3 | 4 50 | 8 53 | 1 59 | 0 33 | 1 26 | 23 47 | 1 26 | 23 37 | 0 9 | 3 22 | 2 46 | 22 13 | 0 27 | 22 21 | 1 3 | 14 55 | 7 59 | 22 30 | 22 38 | 17 0 | 17 16 | 6 11 |
| S 31 | 4n 9 | 3s25 | 5n 2 | 8s31 | 2s 5 | 0s 3 | 1s25 | 23n52 | 1n26 | 23n37 | 0n 9 | 3s20 | 2n46 | 22s12 | 0s27 | 22s21 | 1n 3 | 14n55 | 7s59 | 22s29 | 22s38 | 17n 1 | 17s15 | 6n12 |

Julian Day Number = 2326691.5, Delta T = 37.64 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'08, Lahiri = 19°05'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## APRIL 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 38 0 | 11♈25'37 | 21♓36 | 14♓27 | 4♈24 | 13♊56 | 2♋46 | 14°R52 | 21♑32 | 4♑38 | 17♊18 | 13°R31 | 14♐54 | 7♉41 | 3♑ 3 | M 1 |
| T 2 | 12 41 57 | 12°24'38 | 3♈46 | 15°42 | 5°39 | 14°32 | 2°52 | 14♎47 | 21°34 | 4°38 | 17°18 | 13♐19 | 14°51 | 7°48 | 3° 4 | T 2 |
| W 3 | 12 45 53 | 13°23'36 | 15°48 | 16°59 | 6°53 | 15° 8 | 2°59 | 14°43 | 21°35 | 4°38 | 17°19 | 13° 8 | 14°47 | 7°54 | 3° 5 | W 3 |
| T 4 | 12 49 50 | 14°22'33 | 27°43 | 18°18 | 8° 7 | 15°45 | 3° 5 | 14°38 | 21°36 | 4°38 | 17°20 | 12°58 | 14°44 | 8° 1 | 3° 6 | T 4 |
| F 5 | 12 53 46 | 15°21'28 | 9♉33 | 19°39 | 9°22 | 16°21 | 3°12 | 14°33 | 21°37 | 4°38 | 17°20 | 12°51 | 14°41 | 8° 8 | 3° 6 | F 5 |
| S 6 | 12 57 43 | 16°20'20 | 21°21 | 21° 2 | 10°36 | 16°57 | 3°19 | 14°29 | 21°38 | 4°R38 | 17°21 | 12°46 | 14°38 | 8°14 | 3° 7 | S 6 |
| S 7 | 13 1 40 | 17°19'10 | 3♊ 9 | 22°26 | 11°50 | 17°33 | 3°26 | 14°24 | 21°39 | 4°38 | 17°22 | 12°43 | 14°35 | 8°21 | 3° 7 | S 7 |
| M 8 | 13 5 36 | 18°17'59 | 15° 0 | 23°53 | 13° 4 | 18° 9 | 3°34 | 14°19 | 21°40 | 4°38 | 17°23 | 12°D43 | 14°31 | 8°28 | 3° 7 | M 8 |
| T 9 | 13 9 33 | 19°16'45 | 26°59 | 25°21 | 14°19 | 18°45 | 3°41 | 14°15 | 21°41 | 4°38 | 17°24 | 12°43 | 14°28 | 8°34 | 3° 7 | T 9 |
| W10 | 13 13 29 | 20°15'28 | 9♋11 | 26°51 | 15°33 | 19°22 | 3°49 | 14°10 | 21°42 | 4°38 | 17°24 | 12°44 | 14°25 | 8°41 | 3° 8 | W10 |
| T 11 | 13 17 26 | 21°14'10 | 21°41 | 28°22 | 16°47 | 19°58 | 3°56 | 14° 6 | 21°42 | 4°38 | 17°25 | 12°R45 | 14°22 | 8°48 | 3°R 8 | T 11 |
| F 12 | 13 21 22 | 22°12'49 | 4♌34 | 29°56 | 18° 1 | 20°34 | 4° 4 | 14° 1 | 21°43 | 4°38 | 17°26 | 12°44 | 14°19 | 8°54 | 3° 8 | F 12 |
| S 13 | 13 25 19 | 23°11'26 | 17°53 | 1♈31 | 19°15 | 21°10 | 4°12 | 13°57 | 21°44 | 4°38 | 17°27 | 12°41 | 14°16 | 9° 1 | 3° 7 | S 13 |
| S 14 | 13 29 15 | 24°10'01 | 1♍41 | 3° 7 | 20°30 | 21°47 | 4°20 | 13°52 | 21°44 | 4°37 | 17°28 | 12°37 | 14°12 | 9° 8 | 3° 7 | S 14 |
| M15 | 13 33 12 | 25° 8'33 | 15°59 | 4°46 | 21°44 | 22°23 | 4°29 | 13°48 | 21°45 | 4°37 | 17°29 | 12°31 | 14° 9 | 9°14 | 3° 7 | M15 |
| T 16 | 13 37 9 | 26° 7'04 | 0♎42 | 6°26 | 22°58 | 22°59 | 4°37 | 13°43 | 21°46 | 4°37 | 17°30 | 12°24 | 14° 6 | 9°21 | 3° 6 | T 16 |
| W17 | 13 41 5 | 27° 5'32 | 15°45 | 8° 7 | 24°12 | 23°36 | 4°45 | 13°39 | 21°46 | 4°36 | 17°31 | 12°17 | 14° 3 | 9°28 | 3° 6 | W17 |
| T 18 | 13 45 2 | 28° 3'58 | 0♏59 | 9°51 | 25°26 | 24°12 | 4°54 | 13°34 | 21°46 | 4°36 | 17°32 | 12°11 | 14° 0 | 9°34 | 3° 5 | T 18 |
| F 19 | 13 48 58 | 29° 2'23 | 16°13 | 11°36 | 26°40 | 24°48 | 5° 3 | 13°30 | 21°47 | 4°36 | 17°33 | 12° 7 | 13°56 | 9°41 | 3° 5 | F 19 |
| S 20 | 13 52 55 | 0♉ 0'46 | 1♐17 | 13°23 | 27°54 | 25°25 | 5°12 | 13°25 | 21°47 | 4°35 | 17°34 | 12° 4 | 13°53 | 9°48 | 3° 4 | S 20 |
| S 21 | 13 56 51 | 0°59'07 | 16° 3 | 15°11 | 29° 8 | 26° 1 | 5°20 | 13°21 | 21°47 | 4°35 | 17°35 | 12°D 4 | 13°50 | 9°54 | 3° 3 | S 21 |
| M22 | 14 0 48 | 1°57'26 | 0♑26 | 17° 1 | 0♉22 | 26°38 | 5°30 | 13°17 | 21°48 | 4°34 | 17°36 | 12° 5 | 13°47 | 10° 1 | 3° 2 | M22 |
| T 23 | 14 4 44 | 2°55'44 | 14°23 | 18°53 | 1°37 | 27°14 | 5°39 | 13°13 | 21°48 | 4°34 | 17°37 | 12° 6 | 13°44 | 10° 8 | 3° 1 | T 23 |
| W24 | 14 8 41 | 3°54'01 | 27°55 | 20°47 | 2°51 | 27°50 | 5°48 | 13° 8 | 21°48 | 4°33 | 17°38 | 12°R 7 | 13°41 | 10°14 | 3° 0 | W24 |
| T 25 | 14 12 38 | 4°52'16 | 11♒ 4 | 22°42 | 4° 5 | 28°27 | 5°57 | 13° 4 | 21°48 | 4°32 | 17°39 | 12° 7 | 13°37 | 10°21 | 2°59 | T 25 |
| F 26 | 14 16 34 | 5°50'29 | 23°53 | 24°39 | 5°19 | 29° 3 | 6° 7 | 13° 0 | 21°R48 | 4°32 | 17°40 | 12° 6 | 13°34 | 10°28 | 2°58 | F 26 |
| S 27 | 14 20 31 | 6°48'41 | 6♓25 | 26°38 | 6°33 | 29°40 | 6°16 | 12°56 | 21°48 | 4°31 | 17°41 | 12° 3 | 13°31 | 10°34 | 2°56 | S 27 |
| S 28 | 14 24 27 | 7°46'51 | 18°43 | 28°38 | 7°47 | 0♋16 | 6°26 | 12°52 | 21°48 | 4°31 | 17°42 | 11°58 | 13°28 | 10°41 | 2°55 | S 28 |
| M29 | 14 28 24 | 8°45'00 | 0♈50 | 0♉40 | 9° 1 | 0°53 | 6°36 | 12°48 | 21°48 | 4°30 | 17°43 | 11°53 | 13°25 | 10°48 | 2°53 | M29 |
| T 30 | 14 32 20 | 9♉43'07 | 12♈50 | 2♉43 | 10♉15 | 1♋29 | 6♋46 | 12♎44 | 21♑48 | 4♑29 | 17♊44 | 11♐47 | 13♐22 | 10♉54 | 2♑52 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 4n32 | 1n16 | 5n 0 | 8s 8 | 2s10 | 0n27 | 1s25 | 23n56 | 1n26 | 23n36 | 0n 9 | 3s18 | 2n46 | 22s12 | 0s27 | 22s21 | 1n 3 | 14n56 | 7s59 | 22s28 | 22s38 | 17n 3 | 17s14 | 6n13 |
| T 2 | 4 55 | 5 51 | 4 44 | 7 43 | 2 15 | 0 57 | 1 24 | 24 1 | 1 26 | 23 36 | 0 9 | 3 17 | 2 47 | 22 12 | 0 27 | 22 21 | 1 3 | 14 56 | 7 59 | 22 26 | 22 37 | 17 4 | 17 14 | 6 13 |
| W 3 | 5 18 | 10 10 | 4 16 | 7 17 | 2 19 | 1 27 | 1 24 | 24 5 | 1 26 | 23 36 | 0 9 | 3 15 | 2 47 | 22 12 | 0 27 | 22 21 | 1 3 | 14 56 | 7 59 | 22 25 | 22 37 | 17 6 | 17 13 | 6 14 |
| T 4 | 5 41 | 14 3 | 3 37 | 6 50 | 2 23 | 1 57 | 1 23 | 24 9 | 1 26 | 23 36 | 0 9 | 3 13 | 2 47 | 22 12 | 0 27 | 22 21 | 1 3 | 14 56 | 7 58 | 22 24 | 22 36 | 17 7 | 17 12 | 6 15 |
| F 5 | 6 3 | 17 21 | 2 48 | 6 21 | 2 26 | 2 27 | 1 22 | 24 12 | 1 26 | 23 36 | 0 10 | 3 11 | 2 47 | 22 12 | 0 27 | 22 21 | 1 3 | 14 57 | 7 58 | 22 23 | 22 36 | 17 9 | 17 12 | 6 15 |
| S 6 | 6 26 | 19 56 | 1 52 | 5 51 | 2 29 | 2 57 | 1 21 | 24 16 | 1 26 | 23 36 | 0 10 | 3 9 | 2 47 | 22 12 | 0 27 | 22 21 | 1 3 | 14 57 | 7 58 | 22 22 | 22 36 | 17 10 | 17 11 | 6 16 |
| S 7 | 6 49 | 21 40 | 0 51 | 5 19 | 2 31 | 3 27 | 1 20 | 24 20 | 1 26 | 23 36 | 0 10 | 3 8 | 2 47 | 22 11 | 0 27 | 22 21 | 1 3 | 14 57 | 7 58 | 22 22 | 22 35 | 17 12 | 17 10 | 6 17 |
| M 8 | 7 11 | 22 26 | 0s12 | 4 46 | 2 33 | 3 57 | 1 20 | 24 23 | 1 26 | 23 36 | 0 10 | 3 6 | 2 47 | 22 11 | 0 27 | 22 21 | 1 3 | 14 57 | 7 58 | 22 22 | 22 35 | 17 13 | 17 10 | 6 17 |
| T 9 | 7 34 | 22 11 | 1 16 | 4 12 | 2 34 | 4 27 | 1 19 | 24 26 | 1 26 | 23 36 | 0 10 | 3 4 | 2 47 | 22 11 | 0 28 | 22 21 | 1 3 | 14 58 | 7 57 | 22 22 | 22 35 | 17 15 | 17 9 | 6 18 |
| W10 | 7 56 | 20 52 | 2 18 | 3 37 | 2 34 | 4 56 | 1 18 | 24 29 | 1 26 | 23 36 | 0 10 | 3 2 | 2 47 | 22 11 | 0 28 | 22 21 | 1 3 | 14 58 | 7 57 | 22 22 | 22 34 | 17 16 | 17 8 | 6 19 |
| T 11 | 8 18 | 18 32 | 3 14 | 3 0 | 2 34 | 5 26 | 1 16 | 24 32 | 1 26 | 23 36 | 0 10 | 3 1 | 2 47 | 22 11 | 0 28 | 22 21 | 1 3 | 14 58 | 7 57 | 22 22 | 22 34 | 17 18 | 17 8 | 6 19 |
| F 12 | 8 40 | 15 13 | 4 3 | 2 23 | 2 34 | 5 55 | 1 15 | 24 35 | 1 26 | 23 35 | 0 10 | 2 59 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 14 59 | 7 57 | 22 22 | 22 34 | 17 19 | 17 7 | 6 20 |
| S 13 | 9 2 | 11 3 | 4 40 | 1 44 | 2 33 | 6 25 | 1 14 | 24 37 | 1 26 | 23 35 | 0 10 | 2 57 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 14 59 | 7 57 | 22 22 | 22 33 | 17 21 | 17 6 | 6 21 |
| S 14 | 9 23 | 6 11 | 5 3 | 1 4 | 2 31 | 6 54 | 1 13 | 24 39 | 1 26 | 23 35 | 0 10 | 2 55 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 14 59 | 7 56 | 22 21 | 22 33 | 17 22 | 17 6 | 6 21 |
| M15 | 9 45 | 0 49 | 5 8 | 0 23 | 2 29 | 7 23 | 1 11 | 24 42 | 1 26 | 23 35 | 0 10 | 2 54 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 14 59 | 7 56 | 22 20 | 22 32 | 17 24 | 17 5 | 6 22 |
| T 16 | 10 6 | 4s45 | 4 53 | 0n19 | 2 27 | 7 52 | 1 10 | 24 43 | 1 26 | 23 35 | 0 10 | 2 52 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 0 | 7 56 | 22 19 | 22 32 | 17 25 | 17 4 | 6 22 |
| W17 | 10 27 | 10 10 | 4 18 | 1 2 | 2 24 | 8 20 | 1 9 | 24 45 | 1 26 | 23 34 | 0 11 | 2 50 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 0 | 7 56 | 22 18 | 22 32 | 17 27 | 17 4 | 6 23 |
| T 18 | 10 48 | 15 1 | 3 24 | 1 46 | 2 20 | 8 49 | 1 7 | 24 47 | 1 26 | 23 34 | 0 11 | 2 49 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 0 | 7 56 | 22 18 | 22 31 | 17 28 | 17 3 | 6 24 |
| F 19 | 11 9 | 18 53 | 2 16 | 2 30 | 2 16 | 9 17 | 1 6 | 24 48 | 1 26 | 23 34 | 0 11 | 2 47 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 0 | 7 56 | 22 17 | 22 31 | 17 29 | 17 3 | 6 24 |
| S 20 | 11 30 | 21 24 | 0 58 | 3 16 | 2 11 | 9 45 | 1 4 | 24 50 | 1 26 | 23 34 | 0 11 | 2 45 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 1 | 7 55 | 22 17 | 22 31 | 17 31 | 17 2 | 6 25 |
| S 21 | 11 50 | 22 24 | 0n22 | 4 3 | 2 6 | 10 13 | 1 2 | 24 51 | 1 26 | 23 33 | 0 11 | 2 44 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 1 | 7 55 | 22 17 | 22 30 | 17 32 | 17 1 | 6 26 |
| M22 | 12 11 | 21 51 | 1 38 | 4 50 | 2 1 | 10 41 | 1 1 | 24 52 | 1 25 | 23 33 | 0 11 | 2 42 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 1 | 7 55 | 22 17 | 22 30 | 17 34 | 17 1 | 6 26 |
| T 23 | 12 31 | 19 57 | 2 47 | 5 39 | 1 55 | 11 8 | 0 59 | 24 53 | 1 25 | 23 33 | 0 11 | 2 41 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 1 | 7 55 | 22 17 | 22 29 | 17 35 | 17 0 | 6 27 |
| W24 | 12 50 | 16 58 | 3 44 | 6 28 | 1 48 | 11 35 | 0 57 | 24 53 | 1 25 | 23 32 | 0 11 | 2 39 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 2 | 7 55 | 22 17 | 22 29 | 17 37 | 17 0 | 6 28 |
| T 25 | 13 10 | 13 12 | 4 27 | 7 17 | 1 41 | 12 2 | 0 55 | 24 54 | 1 25 | 23 32 | 0 11 | 2 38 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 2 | 7 54 | 22 17 | 22 29 | 17 38 | 16 59 | 6 28 |
| F 26 | 13 30 | 8 55 | 4 56 | 8 7 | 1 33 | 12 28 | 0 54 | 24 54 | 1 25 | 23 32 | 0 11 | 2 36 | 2 46 | 22 11 | 0 28 | 22 21 | 1 3 | 15 2 | 7 54 | 22 17 | 22 28 | 17 39 | 16 58 | 6 29 |
| S 27 | 13 49 | 4 22 | 5 10 | 8 58 | 1 25 | 12 55 | 0 52 | 24 54 | 1 25 | 23 31 | 0 11 | 2 35 | 2 45 | 22 11 | 0 28 | 22 21 | 1 3 | 15 2 | 7 54 | 22 17 | 22 28 | 17 41 | 16 58 | 6 29 |
| S 28 | 14 8 | 0n16 | 5 9 | 9 49 | 1 17 | 13 21 | 0 50 | 24 54 | 1 25 | 23 31 | 0 11 | 2 33 | 2 45 | 22 11 | 0 28 | 22 21 | 1 3 | 15 3 | 7 54 | 22 16 | 22 27 | 17 42 | 16 57 | 6 30 |
| M29 | 14 27 | 4 50 | 4 55 | 10 40 | 1 8 | 13 46 | 0 48 | 24 54 | 1 25 | 23 31 | 0 11 | 2 32 | 2 45 | 22 11 | 0 28 | 22 21 | 1 3 | 15 3 | 7 54 | 22 15 | 22 27 | 17 44 | 16 57 | 6 31 |
| T 30 | 14n45 | 9n11 | 4n27 | 11n31 | 0s59 | 14n12 | 0s46 | 24n53 | 1n25 | 23n30 | 0n12 | 2s30 | 2n45 | 22s11 | 0s28 | 22s21 | 1n 3 | 15n 3 | 7s54 | 22s14 | 22s27 | 17n45 | 16s56 | 6n31 |

Julian Day Number = 2326722.5, Delta T = 37.59 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'12, Lahiri = 19°05'13Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## MAY 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 36 17 | 10♉41'13 | 24♈43 | 4♉48 | 11♉29 | 2♋ 6 | 6♋56 | 12°R41 | 21°R47 | 4°R28 | 17♊45 | 11°R41 | 13♐18 | 11♉ 1 | 2°R50 | W 1 |
| T 2 | 14 40 13 | 11°39'17 | 6♉33 | 6°55 | 12°43 | 2°42 | 7° 6 | 12♎37 | 21♑47 | 4♑28 | 17°47 | 11♐37 | 13°15 | 11° 8 | 2♑48 | T 2 |
| F 3 | 14 44 10 | 12°37'20 | 18°21 | 9° 2 | 13°57 | 3°19 | 7°16 | 12°33 | 21°47 | 4°27 | 17°48 | 11°33 | 13°12 | 11°14 | 2°47 | F 3 |
| S 4 | 14 48 7 | 13°35'21 | 0♊10 | 11°11 | 15°10 | 3°56 | 7°26 | 12°29 | 21°46 | 4°26 | 17°49 | 11°31 | 13° 9 | 11°21 | 2°45 | S 4 |
| S 5 | 14 52 3 | 14°33'20 | 12° 1 | 13°20 | 16°24 | 4°32 | 7°37 | 12°26 | 21°46 | 4°25 | 17°50 | 11°D30 | 13° 6 | 11°28 | 2°43 | S 5 |
| M 6 | 14 56 0 | 15°31'18 | 23°57 | 15°30 | 17°38 | 5° 9 | 7°47 | 12°22 | 21°45 | 4°24 | 17°51 | 11°31 | 13° 2 | 11°34 | 2°41 | M 6 |
| T 7 | 14 59 56 | 16°29'14 | 6♋ 2 | 17°41 | 18°52 | 5°45 | 7°58 | 12°19 | 21°45 | 4°23 | 17°53 | 11°32 | 12°59 | 11°41 | 2°38 | T 7 |
| W 8 | 15 3 53 | 17°27'08 | 18°18 | 19°52 | 20° 6 | 6°22 | 8° 9 | 12°16 | 21°44 | 4°22 | 17°54 | 11°34 | 12°56 | 11°48 | 2°36 | W 8 |
| T 9 | 15 7 49 | 18°25'00 | 0♌51 | 22° 3 | 21°20 | 6°59 | 8°19 | 12°12 | 21°44 | 4°21 | 17°55 | 11°36 | 12°53 | 11°54 | 2°34 | T 9 |
| F 10 | 15 11 46 | 19°22'51 | 13°42 | 24°13 | 22°34 | 7°35 | 8°30 | 12° 9 | 21°43 | 4°20 | 17°56 | 11°R36 | 12°50 | 12° 1 | 2°32 | F 10 |
| S 11 | 15 15 42 | 20°20'40 | 26°57 | 26°23 | 23°48 | 8°12 | 8°41 | 12° 6 | 21°42 | 4°19 | 17°58 | 11°36 | 12°47 | 12° 8 | 2°29 | S 11 |
| S 12 | 15 19 39 | 21°18'27 | 10♍37 | 28°32 | 25° 2 | 8°49 | 8°52 | 12° 3 | 21°42 | 4°18 | 17°59 | 11°35 | 12°43 | 12°14 | 2°27 | S 12 |
| M13 | 15 23 36 | 22°16'12 | 24°44 | 0♊40 | 26°15 | 9°25 | 9° 3 | 12° 0 | 21°41 | 4°17 | 18° 0 | 11°34 | 12°40 | 12°21 | 2°24 | M13 |
| T 14 | 15 27 32 | 23°13'56 | 9♎16 | 2°46 | 27°29 | 10° 2 | 9°14 | 11°57 | 21°40 | 4°16 | 18° 1 | 11°31 | 12°37 | 12°28 | 2°22 | T 14 |
| W15 | 15 31 29 | 24°11'38 | 24° 8 | 4°51 | 28°43 | 10°39 | 9°25 | 11°54 | 21°39 | 4°15 | 18° 3 | 11°29 | 12°34 | 12°34 | 2°19 | W15 |
| T 16 | 15 35 25 | 25° 9'18 | 9♏15 | 6°54 | 29°57 | 11°16 | 9°37 | 11°51 | 21°38 | 4°14 | 18° 4 | 11°27 | 12°31 | 12°41 | 2°16 | T 16 |
| F 17 | 15 39 22 | 26° 6'58 | 24°27 | 8°55 | 1♊10 | 11°52 | 9°48 | 11°49 | 21°37 | 4°12 | 18° 5 | 11°26 | 12°28 | 12°48 | 2°13 | F 17 |
| S 18 | 15 43 18 | 27° 4'36 | 9♐35 | 10°53 | 2°24 | 12°29 | 10° 0 | 11°46 | 21°36 | 4°11 | 18° 7 | 11°D26 | 12°24 | 12°54 | 2°11 | S 18 |
| S 19 | 15 47 15 | 28° 2'13 | 24°29 | 12°49 | 3°38 | 13° 6 | 10°11 | 11°44 | 21°35 | 4°10 | 18° 8 | 11°26 | 12°21 | 13° 1 | 2° 8 | S 19 |
| M20 | 15 51 11 | 28°59'48 | 9♑ 3 | 14°43 | 4°52 | 13°43 | 10°23 | 11°41 | 21°34 | 4° 9 | 18° 9 | 11°27 | 12°18 | 13° 8 | 2° 5 | M20 |
| T 21 | 15 55 8 | 29°57'23 | 23°11 | 16°34 | 6° 6 | 14°19 | 10°34 | 11°39 | 21°33 | 4° 8 | 18°11 | 11°28 | 12°15 | 13°14 | 2° 2 | T 21 |
| W22 | 15 59 5 | 0♊54'57 | 6♒53 | 18°22 | 7°19 | 14°56 | 10°46 | 11°37 | 21°31 | 4° 6 | 18°12 | 11°28 | 12°12 | 13°21 | 1°59 | W22 |
| T 23 | 16 3 1 | 1°52'29 | 20° 9 | 20° 7 | 8°33 | 15°33 | 10°58 | 11°35 | 21°30 | 4° 5 | 18°13 | 11°29 | 12° 8 | 13°28 | 1°55 | T 23 |
| F 24 | 16 6 58 | 2°50'01 | 3♓ 1 | 21°50 | 9°47 | 16°10 | 11°10 | 11°33 | 21°29 | 4° 4 | 18°15 | 11°R29 | 12° 5 | 13°34 | 1°52 | F 24 |
| S 25 | 16 10 54 | 3°47'32 | 15°32 | 23°30 | 11° 0 | 16°46 | 11°21 | 11°31 | 21°28 | 4° 2 | 18°16 | 11°29 | 12° 2 | 13°41 | 1°49 | S 25 |
| S 26 | 16 14 51 | 4°45'03 | 27°47 | 25° 6 | 12°14 | 17°23 | 11°33 | 11°29 | 21°26 | 4° 1 | 18°18 | 11°29 | 11°59 | 13°48 | 1°46 | S 26 |
| M27 | 16 18 47 | 5°42'32 | 9♈50 | 26°40 | 13°28 | 18° 0 | 11°45 | 11°27 | 21°25 | 4° 0 | 18°19 | 11°28 | 11°56 | 13°54 | 1°42 | M27 |
| T 28 | 16 22 44 | 6°40'01 | 21°44 | 28°11 | 14°41 | 18°37 | 11°58 | 11°25 | 21°23 | 3°58 | 18°20 | 11°27 | 11°53 | 14° 1 | 1°39 | T 28 |
| W29 | 16 26 40 | 7°37'28 | 3♉33 | 29°39 | 15°55 | 19°14 | 12°10 | 11°24 | 21°22 | 3°57 | 18°22 | 11°27 | 11°49 | 14° 8 | 1°36 | W29 |
| T 30 | 16 30 37 | 8°34'56 | 15°21 | 1♋ 4 | 17° 9 | 19°51 | 12°22 | 11°22 | 21°20 | 3°56 | 18°23 | 11°26 | 11°46 | 14°14 | 1°32 | T 30 |
| F 31 | 16 34 34 | 9♊32'22 | 27♉10 | 2♋25 | 18♊23 | 20♋28 | 12♋34 | 11♎21 | 21♑19 | 3♑54 | 18♊25 | 11♐26 | 11♐43 | 14♉21 | 1♑29 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 15n 3 | 13n 8 | 3n49 | 12n22 | 0s49 | 14n36 | 0s44 | 24n53 | 1n25 | 23n30 | 0n12 | 2s29 | 2n45 | 22s11 | 0s28 | 22s21 | 1n 3 | 15n 3 | 7s54 | 22s14 | 22s26 | 17n47 | 16s56 | 6n32 |
| T 2 | 15 21 | 16 33 | 3 0 | 13 14 | 0 39 | 15 1 | 0 42 | 24 52 | 1 25 | 23 29 | 0 12 | 2 28 | 2 45 | 22 11 | 0 28 | 22 21 | 1 3 | 15 4 | 7 53 | 22 13 | 22 26 | 17 48 | 16 55 | 6 32 |
| F 3 | 15 39 | 19 18 | 2 4 | 14 4 | 0 29 | 15 25 | 0 40 | 24 51 | 1 25 | 23 29 | 0 12 | 2 26 | 2 45 | 22 11 | 0 28 | 22 21 | 1 3 | 15 4 | 7 53 | 22 13 | 22 25 | 17 49 | 16 54 | 6 33 |
| S 4 | 15 57 | 21 14 | 1 2 | 14 55 | 0 19 | 15 49 | 0 38 | 24 50 | 1 24 | 23 28 | 0 12 | 2 25 | 2 44 | 22 11 | 0 28 | 22 21 | 1 4 | 15 4 | 7 53 | 22 12 | 22 25 | 17 51 | 16 54 | 6 33 |
| S 5 | 16 14 | 22 14 | 0s 3 | 15 44 | 0 8 | 16 13 | 0 35 | 24 49 | 1 24 | 23 28 | 0 12 | 2 24 | 2 44 | 22 11 | 0 28 | 22 21 | 1 4 | 15 4 | 7 53 | 22 12 | 22 25 | 17 52 | 16 53 | 6 34 |
| M 6 | 16 31 | 22 13 | 1 8 | 16 33 | 0n 2 | 16 36 | 0 33 | 24 47 | 1 24 | 23 27 | 0 12 | 2 23 | 2 44 | 22 11 | 0 28 | 22 21 | 1 4 | 15 5 | 7 53 | 22 12 | 22 24 | 17 53 | 16 53 | 6 35 |
| T 7 | 16 48 | 21 10 | 2 11 | 17 20 | 0 13 | 16 58 | 0 31 | 24 45 | 1 24 | 23 27 | 0 12 | 2 22 | 2 44 | 22 11 | 0 28 | 22 21 | 1 4 | 15 5 | 7 53 | 22 12 | 22 24 | 17 55 | 16 52 | 6 35 |
| W 8 | 17 4 | 19 6 | 3 9 | 18 6 | 0 23 | 17 20 | 0 29 | 24 44 | 1 24 | 23 26 | 0 12 | 2 20 | 2 44 | 22 12 | 0 28 | 22 21 | 1 4 | 15 5 | 7 53 | 22 13 | 22 23 | 17 56 | 16 52 | 6 36 |
| T 9 | 17 20 | 16 7 | 3 59 | 18 51 | 0 34 | 17 42 | 0 27 | 24 42 | 1 24 | 23 25 | 0 12 | 2 19 | 2 44 | 22 12 | 0 28 | 22 21 | 1 4 | 15 5 | 7 52 | 22 13 | 22 23 | 17 58 | 16 51 | 6 36 |
| F 10 | 17 36 | 12 17 | 4 39 | 19 34 | 0 44 | 18 3 | 0 24 | 24 39 | 1 24 | 23 25 | 0 12 | 2 18 | 2 44 | 22 12 | 0 28 | 22 21 | 1 4 | 15 6 | 7 52 | 22 13 | 22 23 | 17 59 | 16 51 | 6 37 |
| S 11 | 17 52 | 7 46 | 5 6 | 20 15 | 0 54 | 18 24 | 0 22 | 24 37 | 1 24 | 23 24 | 0 12 | 2 17 | 2 43 | 22 12 | 0 29 | 22 21 | 1 4 | 15 6 | 7 52 | 22 13 | 22 22 | 18 0 | 16 50 | 6 37 |
| S 12 | 18 7 | 2 44 | 5 16 | 20 54 | 1 3 | 18 44 | 0 20 | 24 35 | 1 23 | 23 24 | 0 12 | 2 16 | 2 43 | 22 12 | 0 29 | 22 21 | 1 4 | 15 6 | 7 52 | 22 13 | 22 22 | 18 2 | 16 50 | 6 38 |
| M13 | 18 22 | 2s36 | 5 7 | 21 30 | 1 12 | 19 4 | 0 17 | 24 32 | 1 23 | 23 23 | 0 13 | 2 15 | 2 43 | 22 12 | 0 29 | 22 21 | 1 4 | 15 6 | 7 52 | 22 13 | 22 21 | 18 3 | 16 50 | 6 38 |
| T 14 | 18 37 | 7 58 | 4 40 | 22 5 | 1 21 | 19 23 | 0 15 | 24 29 | 1 23 | 23 22 | 0 13 | 2 14 | 2 43 | 22 12 | 0 29 | 22 21 | 1 4 | 15 7 | 7 52 | 22 12 | 22 21 | 18 4 | 16 49 | 6 39 |
| W15 | 18 51 | 12 59 | 3 53 | 22 36 | 1 29 | 19 42 | 0 13 | 24 26 | 1 23 | 23 21 | 0 13 | 2 13 | 2 43 | 22 13 | 0 29 | 22 21 | 1 4 | 15 7 | 7 52 | 22 12 | 22 21 | 18 6 | 16 49 | 6 39 |
| T 16 | 19 5 | 17 16 | 2 49 | 23 5 | 1 37 | 20 1 | 0 10 | 24 23 | 1 23 | 23 21 | 0 13 | 2 12 | 2 42 | 22 13 | 0 29 | 22 21 | 1 4 | 15 7 | 7 52 | 22 12 | 22 20 | 18 7 | 16 48 | 6 40 |
| F 17 | 19 19 | 20 25 | 1 33 | 23 32 | 1 44 | 20 18 | 0 8 | 24 20 | 1 23 | 23 20 | 0 13 | 2 11 | 2 42 | 22 13 | 0 29 | 22 21 | 1 4 | 15 7 | 7 51 | 22 12 | 22 20 | 18 8 | 16 48 | 6 40 |
| S 18 | 19 32 | 22 6 | 0 10 | 23 56 | 1 50 | 20 35 | 0 6 | 24 16 | 1 23 | 23 19 | 0 13 | 2 11 | 2 42 | 22 13 | 0 29 | 22 21 | 1 4 | 15 7 | 7 51 | 22 12 | 22 19 | 18 10 | 16 47 | 6 41 |
| S 19 | 19 46 | 22 10 | 1n12 | 24 17 | 1 55 | 20 52 | 0 3 | 24 12 | 1 22 | 23 18 | 0 13 | 2 10 | 2 42 | 22 13 | 0 29 | 22 21 | 1 4 | 15 8 | 7 51 | 22 12 | 22 19 | 18 11 | 16 47 | 6 41 |
| M20 | 19 58 | 20 44 | 2 27 | 24 36 | 2 0 | 21 8 | 0 1 | 24 8 | 1 22 | 23 18 | 0 13 | 2 9 | 2 42 | 22 14 | 0 29 | 22 21 | 1 4 | 15 8 | 7 51 | 22 12 | 22 19 | 18 12 | 16 47 | 6 41 |
| T 21 | 20 11 | 18 1 | 3 31 | 24 52 | 2 4 | 21 23 | 0n 2 | 24 4 | 1 22 | 23 17 | 0 13 | 2 8 | 2 41 | 22 14 | 0 29 | 22 21 | 1 4 | 15 8 | 7 51 | 22 12 | 22 18 | 18 13 | 16 46 | 6 42 |
| W22 | 20 23 | 14 22 | 4 21 | 25 5 | 2 8 | 21 38 | 0 4 | 24 0 | 1 22 | 23 16 | 0 13 | 2 8 | 2 41 | 22 14 | 0 29 | 22 21 | 1 4 | 15 8 | 7 51 | 22 12 | 22 18 | 18 15 | 16 46 | 6 42 |
| T 23 | 20 34 | 10 7 | 4 56 | 25 17 | 2 10 | 21 53 | 0 7 | 23 56 | 1 22 | 23 15 | 0 13 | 2 7 | 2 41 | 22 14 | 0 29 | 22 21 | 1 4 | 15 8 | 7 51 | 22 12 | 22 17 | 18 16 | 16 45 | 6 43 |
| F 24 | 20 46 | 5 32 | 5 14 | 25 25 | 2 12 | 22 6 | 0 9 | 23 51 | 1 22 | 23 14 | 0 13 | 2 6 | 2 41 | 22 14 | 0 29 | 22 21 | 1 4 | 15 9 | 7 51 | 22 12 | 22 17 | 18 17 | 16 45 | 6 43 |
| S 25 | 20 57 | 0 51 | 5 17 | 25 32 | 2 13 | 22 19 | 0 11 | 23 47 | 1 22 | 23 13 | 0 13 | 2 6 | 2 41 | 22 15 | 0 29 | 22 21 | 1 4 | 15 9 | 7 51 | 22 12 | 22 16 | 18 19 | 16 45 | 6 44 |
| S 26 | 21 8 | 3n47 | 5 5 | 25 36 | 2 13 | 22 32 | 0 14 | 23 42 | 1 21 | 23 12 | 0 14 | 2 5 | 2 40 | 22 15 | 0 29 | 22 22 | 1 4 | 15 9 | 7 51 | 22 12 | 22 16 | 18 20 | 16 44 | 6 44 |
| M27 | 21 18 | 8 11 | 4 39 | 25 38 | 2 12 | 22 43 | 0 16 | 23 37 | 1 21 | 23 11 | 0 14 | 2 5 | 2 40 | 22 15 | 0 29 | 22 22 | 1 4 | 15 9 | 7 50 | 22 12 | 22 16 | 18 21 | 16 44 | 6 44 |
| T 28 | 21 28 | 12 14 | 4 2 | 25 39 | 2 11 | 22 54 | 0 18 | 23 31 | 1 21 | 23 10 | 0 14 | 2 4 | 2 40 | 22 15 | 0 29 | 22 22 | 1 4 | 15 10 | 7 50 | 22 12 | 22 15 | 18 22 | 16 44 | 6 45 |
| W29 | 21 37 | 15 47 | 3 15 | 25 37 | 2 8 | 23 5 | 0 21 | 23 26 | 1 21 | 23 9 | 0 14 | 2 4 | 2 40 | 22 16 | 0 29 | 22 22 | 1 4 | 15 10 | 7 50 | 22 12 | 22 15 | 18 24 | 16 43 | 6 45 |
| T 30 | 21 46 | 18 42 | 2 20 | 25 34 | 2 5 | 23 15 | 0 23 | 23 21 | 1 21 | 23 8 | 0 14 | 2 4 | 2 39 | 22 16 | 0 29 | 22 22 | 1 4 | 15 10 | 7 50 | 22 12 | 22 14 | 18 25 | 16 43 | 6 45 |
| F 31 | 21n55 | 20n50 | 1n18 | 25n29 | 2n 1 | 23n24 | 0n26 | 23n15 | 1n21 | 23n 7 | 0n14 | 2s 3 | 2n39 | 22s16 | 0s29 | 22s22 | 1n 4 | 15n10 | 7s50 | 22s12 | 22s14 | 18n26 | 16s43 | 6n46 |

Julian Day Number = 2326752.5, Delta T = 37.53 sec
Ecliptic obliquity = 23°28'59, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'16, Lahiri = 19°05'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## JUNE 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 38 30 | 10♊29'47 | 9♊ 3 | 3♋44 | 19♊36 | 21♋ 5 | 12♋46 | 11°R20 | 21°R17 | 3°R53 | 18♊26 | 11°D26 | 11♐40 | 14♉28 | 1°R25 | S 1 |
| S 2 | 16 42 27 | 11°27'12 | 21° 1 | 4°59 | 20°50 | 21°41 | 12°59 | 11♎18 | 21♏16 | 3♏51 | 18°27 | 11°R26 | 11°37 | 14°34 | 1♏21 | S 2 |
| M 3 | 16 46 23 | 12°24'35 | 3♋ 8 | 6°12 | 22° 4 | 22°18 | 13°11 | 11°17 | 21°14 | 3°50 | 18°29 | 11♐26 | 11°34 | 14°41 | 1°18 | M 3 |
| T 4 | 16 50 20 | 13°21'58 | 15°24 | 7°20 | 23°17 | 22°55 | 13°24 | 11°16 | 21°12 | 3°48 | 18°30 | 11°26 | 11°30 | 14°48 | 1°14 | T 4 |
| W 5 | 16 54 16 | 14°19'20 | 27°53 | 8°26 | 24°31 | 23°32 | 13°36 | 11°15 | 21°10 | 3°47 | 18°32 | 11°26 | 11°27 | 14°54 | 1°10 | W 5 |
| T 6 | 16 58 13 | 15°16'41 | 10♌35 | 9°28 | 25°44 | 24° 9 | 13°49 | 11°15 | 21° 9 | 3°45 | 18°33 | 11°25 | 11°24 | 15° 1 | 1° 7 | T 6 |
| F 7 | 17 2 9 | 16°14'01 | 23°33 | 10°27 | 26°58 | 24°46 | 14° 1 | 11°14 | 21° 7 | 3°44 | 18°34 | 11°25 | 11°21 | 15° 8 | 1° 3 | F 7 |
| S 8 | 17 6 6 | 17°11'20 | 6♍50 | 11°22 | 28°12 | 25°23 | 14°14 | 11°13 | 21° 5 | 3°42 | 18°36 | 11°24 | 11°18 | 15°14 | 0°59 | S 8 |
| S 9 | 17 10 3 | 18° 8'38 | 20°26 | 12°14 | 29°25 | 26° 0 | 14°26 | 11°13 | 21° 3 | 3°41 | 18°37 | 11°D24 | 11°14 | 15°21 | 0°55 | S 9 |
| M10 | 17 13 59 | 19° 5'55 | 4♎23 | 13° 2 | 0♋39 | 26°37 | 14°39 | 11°12 | 21° 1 | 3°39 | 18°39 | 11°25 | 11°11 | 15°28 | 0°52 | M10 |
| T 11 | 17 17 56 | 20° 3'11 | 18°40 | 13°46 | 1°52 | 27°14 | 14°52 | 11°12 | 20°59 | 3°38 | 18°40 | 11°25 | 11° 8 | 15°34 | 0°48 | T 11 |
| W12 | 17 21 52 | 21° 0'26 | 3♏15 | 14°26 | 3° 6 | 27°51 | 15° 5 | 11°12 | 20°57 | 3°36 | 18°41 | 11°26 | 11° 5 | 15°41 | 0°44 | W12 |
| T 13 | 17 25 49 | 21°57'40 | 18° 3 | 15° 1 | 4°19 | 28°28 | 15°18 | 11°12 | 20°55 | 3°34 | 18°43 | 11°27 | 11° 2 | 15°48 | 0°40 | T 13 |
| F 14 | 17 29 45 | 22°54'54 | 2♐58 | 15°33 | 5°33 | 29° 5 | 15°30 | 11°D12 | 20°53 | 3°33 | 18°44 | 11°27 | 10°59 | 15°54 | 0°36 | F 14 |
| S 15 | 17 33 42 | 23°52'08 | 17°54 | 16° 1 | 6°47 | 29°42 | 15°43 | 11°12 | 20°51 | 3°31 | 18°46 | 11°R27 | 10°55 | 16° 1 | 0°32 | S 15 |
| S 16 | 17 37 38 | 24°49'21 | 2♑41 | 16°24 | 8° 0 | 0♌19 | 15°56 | 11°12 | 20°49 | 3°30 | 18°47 | 11°27 | 10°52 | 16° 8 | 0°28 | S 16 |
| M17 | 17 41 35 | 25°46'33 | 17°14 | 16°43 | 9°14 | 0°57 | 16° 9 | 11°12 | 20°47 | 3°28 | 18°48 | 11°25 | 10°49 | 16°14 | 0°24 | M17 |
| T 18 | 17 45 32 | 26°43'45 | 1♒26 | 16°57 | 10°27 | 1°34 | 16°22 | 11°13 | 20°45 | 3°26 | 18°50 | 11°24 | 10°46 | 16°21 | 0°20 | T 18 |
| W19 | 17 49 28 | 27°40'57 | 15°13 | 17° 7 | 11°41 | 2°11 | 16°35 | 11°13 | 20°43 | 3°25 | 18°51 | 11°21 | 10°43 | 16°28 | 0°17 | W19 |
| T 20 | 17 53 25 | 28°38'09 | 28°34 | 17°12 | 12°54 | 2°48 | 16°48 | 11°14 | 20°41 | 3°23 | 18°53 | 11°20 | 10°40 | 16°34 | 0°13 | T 20 |
| F 21 | 17 57 21 | 29°35'21 | 11♓30 | 17°R12 | 14° 8 | 3°25 | 17° 1 | 11°14 | 20°39 | 3°22 | 18°54 | 11°18 | 10°36 | 16°41 | 0° 9 | F 21 |
| S 22 | 18 1 18 | 0♋32'32 | 24° 5 | 17° 8 | 15°21 | 4° 2 | 17°14 | 11°15 | 20°36 | 3°20 | 18°55 | 11°17 | 10°33 | 16°48 | 0° 5 | S 22 |
| S 23 | 18 5 14 | 1°29'44 | 6♈21 | 17° 0 | 16°35 | 4°39 | 17°27 | 11°16 | 20°34 | 3°18 | 18°57 | 11°D17 | 10°30 | 16°54 | 0° 1 | S 23 |
| M24 | 18 9 11 | 2°26'56 | 18°23 | 16°47 | 17°48 | 5°16 | 17°41 | 11°17 | 20°32 | 3°17 | 18°58 | 11°18 | 10°27 | 17° 1 | 29♐57 | M24 |
| T 25 | 18 13 7 | 3°24'08 | 0♉16 | 16°30 | 19° 1 | 5°54 | 17°54 | 11°18 | 20°30 | 3°15 | 19° 0 | 11°19 | 10°24 | 17° 8 | 29°53 | T 25 |
| W26 | 18 17 4 | 4°21'20 | 12° 4 | 16° 9 | 20°15 | 6°31 | 18° 7 | 11°19 | 20°27 | 3°13 | 19° 1 | 11°21 | 10°20 | 17°14 | 29°49 | W26 |
| T 27 | 18 21 1 | 5°18'33 | 23°53 | 15°44 | 21°28 | 7° 8 | 18°20 | 11°21 | 20°25 | 3°12 | 19° 2 | 11°22 | 10°17 | 17°21 | 29°45 | T 27 |
| F 28 | 18 24 57 | 6°15'45 | 5♊45 | 15°16 | 22°42 | 7°45 | 18°33 | 11°22 | 20°23 | 3°10 | 19° 4 | 11°R23 | 10°14 | 17°27 | 29°41 | F 28 |
| S 29 | 18 28 54 | 7°12'58 | 17°44 | 14°45 | 23°55 | 8°23 | 18°47 | 11°23 | 20°20 | 3° 9 | 19° 5 | 11°23 | 10°11 | 17°34 | 29°37 | S 29 |
| S 30 | 18 32 50 | 8♋10'10 | 29♊53 | 14♋11 | 25♋ 9 | 9♌ 0 | 19♋ 0 | 11♎25 | 20♏18 | 3♏ 7 | 19♊ 6 | 11♐22 | 10♐ 8 | 17♉41 | 29♐33 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 4 | 22n 4 | 0n13 | 25n23 | 1n57 | 23n32 | 0n28 | 23n 9 | 1n20 | 23n 6 | 0n14 | 2s 3 | 2n39 | 22s16 | 0s29 | 22s22 | 1n 4 | 15n10 | 7s50 | 22s12 | 22s13 | 18n27 | 16s42 | 6n46 |
| S 2 | 22 12 | 22 18 | 0s53 | 25 15 | 1 51 | 23 40 | 0 30 | 23 3 | 1 20 | 23 5 | 0 14 | 2 3 | 2 39 | 22 17 | 0 29 | 22 22 | 1 4 | 15 10 | 7 50 | 22 12 | 22 13 | 18 29 | 16 42 | 6 46 |
| M 3 | 22 19 | 21 29 | 1 58 | 25 5 | 1 45 | 23 47 | 0 32 | 22 57 | 1 20 | 23 4 | 0 14 | 2 3 | 2 38 | 22 17 | 0 29 | 22 22 | 1 4 | 15 11 | 7 50 | 22 12 | 22 13 | 18 30 | 16 42 | 6 47 |
| T 4 | 22 27 | 19 39 | 2 58 | 24 55 | 1 38 | 23 53 | 0 35 | 22 51 | 1 20 | 23 3 | 0 14 | 2 2 | 2 38 | 22 17 | 0 29 | 22 22 | 1 4 | 15 11 | 7 50 | 22 12 | 22 12 | 18 31 | 16 42 | 6 47 |
| W 5 | 22 34 | 16 52 | 3 50 | 24 43 | 1 31 | 23 59 | 0 37 | 22 44 | 1 20 | 23 1 | 0 14 | 2 2 | 2 38 | 22 18 | 0 29 | 22 22 | 1 4 | 15 11 | 7 50 | 22 12 | 22 12 | 18 32 | 16 41 | 6 47 |
| T 6 | 22 40 | 13 14 | 4 33 | 24 31 | 1 22 | 24 4 | 0 39 | 22 37 | 1 19 | 23 0 | 0 14 | 2 2 | 2 38 | 22 18 | 0 29 | 22 22 | 1 4 | 15 11 | 7 50 | 22 11 | 22 11 | 18 34 | 16 41 | 6 48 |
| F 7 | 22 46 | 8 56 | 5 2 | 24 17 | 1 13 | 24 8 | 0 41 | 22 31 | 1 19 | 22 59 | 0 14 | 2 2 | 2 37 | 22 18 | 0 29 | 22 22 | 1 4 | 15 11 | 7 50 | 22 11 | 22 11 | 18 35 | 16 41 | 6 48 |
| S 8 | 22 52 | 4 7 | 5 16 | 24 3 | 1 3 | 24 12 | 0 44 | 22 24 | 1 19 | 22 58 | 0 15 | 2 2 | 2 37 | 22 18 | 0 29 | 22 22 | 1 4 | 15 11 | 7 50 | 22 11 | 22 10 | 18 36 | 16 41 | 6 48 |
| S 9 | 22 57 | 1s 1 | 5 14 | 23 48 | 0 53 | 24 15 | 0 46 | 22 17 | 1 19 | 22 56 | 0 15 | 2 2 | 2 37 | 22 19 | 0 29 | 22 22 | 1 4 | 15 12 | 7 50 | 22 11 | 22 10 | 18 37 | 16 40 | 6 48 |
| M10 | 23 2 | 6 13 | 4 52 | 23 32 | 0 42 | 24 17 | 0 48 | 22 9 | 1 19 | 22 55 | 0 15 | 2 2 | 2 37 | 22 19 | 0 29 | 22 22 | 1 4 | 15 12 | 7 50 | 22 11 | 22 10 | 18 38 | 16 40 | 6 49 |
| T 11 | 23 7 | 11 13 | 4 13 | 23 16 | 0 30 | 24 18 | 0 50 | 22 2 | 1 18 | 22 54 | 0 15 | 2 2 | 2 36 | 22 19 | 0 29 | 22 22 | 1 4 | 15 12 | 7 50 | 22 11 | 22 9 | 18 40 | 16 40 | 6 49 |
| W12 | 23 11 | 15 42 | 3 17 | 22 59 | 0 17 | 24 19 | 0 52 | 21 54 | 1 18 | 22 52 | 0 15 | 2 2 | 2 36 | 22 20 | 0 29 | 22 22 | 1 4 | 15 12 | 7 50 | 22 12 | 22 9 | 18 41 | 16 40 | 6 49 |
| T 13 | 23 14 | 19 15 | 2 6 | 22 42 | 0 4 | 24 19 | 0 54 | 21 47 | 1 18 | 22 51 | 0 15 | 2 3 | 2 36 | 22 20 | 0 29 | 22 22 | 1 4 | 15 12 | 7 49 | 22 12 | 22 8 | 18 42 | 16 40 | 6 49 |
| F 14 | 23 18 | 21 33 | 0 47 | 22 25 | 0s 9 | 24 18 | 0 56 | 21 39 | 1 18 | 22 50 | 0 15 | 2 3 | 2 36 | 22 20 | 0 29 | 22 22 | 1 4 | 15 12 | 7 49 | 22 12 | 22 8 | 18 43 | 16 40 | 6 49 |
| S 15 | 23 20 | 22 20 | 0n36 | 22 8 | 0 23 | 24 17 | 0 58 | 21 31 | 1 18 | 22 48 | 0 15 | 2 3 | 2 35 | 22 21 | 0 29 | 22 22 | 1 4 | 15 13 | 7 49 | 22 12 | 22 7 | 18 44 | 16 39 | 6 50 |
| S 16 | 23 23 | 21 32 | 1 55 | 21 51 | 0 38 | 24 14 | 1 0 | 21 23 | 1 17 | 22 47 | 0 15 | 2 3 | 2 35 | 22 21 | 0 29 | 22 22 | 1 4 | 15 13 | 7 49 | 22 12 | 22 7 | 18 46 | 16 39 | 6 50 |
| M17 | 23 25 | 19 18 | 3 6 | 21 33 | 0 53 | 24 11 | 1 2 | 21 14 | 1 17 | 22 45 | 0 15 | 2 4 | 2 35 | 22 21 | 0 29 | 22 22 | 1 4 | 15 13 | 7 49 | 22 12 | 22 6 | 18 47 | 16 39 | 6 50 |
| T 18 | 23 27 | 15 56 | 4 3 | 21 16 | 1 9 | 24 8 | 1 4 | 21 6 | 1 17 | 22 44 | 0 15 | 2 4 | 2 35 | 22 22 | 0 29 | 22 22 | 1 4 | 15 13 | 7 49 | 22 11 | 22 6 | 18 48 | 16 39 | 6 50 |
| W19 | 23 28 | 11 47 | 4 44 | 20 59 | 1 24 | 24 3 | 1 6 | 20 57 | 1 17 | 22 42 | 0 15 | 2 5 | 2 34 | 22 22 | 0 29 | 22 22 | 1 4 | 15 13 | 7 49 | 22 11 | 22 6 | 18 49 | 16 39 | 6 50 |
| T 20 | 23 29 | 7 10 | 5 8 | 20 43 | 1 40 | 23 58 | 1 7 | 20 49 | 1 17 | 22 41 | 0 15 | 2 5 | 2 34 | 22 22 | 0 29 | 22 23 | 1 4 | 15 13 | 7 49 | 22 11 | 22 5 | 18 50 | 16 39 | 6 50 |
| F 21 | 23 29 | 2 23 | 5 16 | 20 27 | 1 56 | 23 53 | 1 9 | 20 40 | 1 16 | 22 39 | 0 16 | 2 6 | 2 34 | 22 23 | 0 29 | 22 23 | 1 4 | 15 13 | 7 49 | 22 10 | 22 5 | 18 51 | 16 39 | 6 50 |
| S 22 | 23 29 | 2n22 | 5 8 | 20 11 | 2 12 | 23 46 | 1 11 | 20 31 | 1 16 | 22 38 | 0 16 | 2 6 | 2 34 | 22 23 | 0 30 | 22 23 | 1 4 | 15 13 | 7 49 | 22 10 | 22 4 | 18 52 | 16 39 | 6 50 |
| S 23 | 23 28 | 6 54 | 4 46 | 19 57 | 2 29 | 23 39 | 1 12 | 20 22 | 1 16 | 22 36 | 0 16 | 2 7 | 2 33 | 22 24 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 10 | 22 4 | 18 54 | 16 38 | 6 50 |
| M24 | 23 28 | 11 6 | 4 12 | 19 42 | 2 44 | 23 31 | 1 14 | 20 12 | 1 16 | 22 34 | 0 16 | 2 7 | 2 33 | 22 24 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 10 | 22 3 | 18 55 | 16 38 | 6 51 |
| T 25 | 23 26 | 14 50 | 3 28 | 19 29 | 3 0 | 23 22 | 1 15 | 20 3 | 1 15 | 22 33 | 0 16 | 2 8 | 2 33 | 22 24 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 11 | 22 3 | 18 56 | 16 38 | 6 51 |
| W26 | 23 25 | 17 56 | 2 35 | 19 17 | 3 15 | 23 13 | 1 17 | 19 53 | 1 15 | 22 31 | 0 16 | 2 9 | 2 33 | 22 25 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 11 | 22 2 | 18 57 | 16 38 | 6 51 |
| T 27 | 23 23 | 20 19 | 1 35 | 19 5 | 3 29 | 23 3 | 1 18 | 19 44 | 1 15 | 22 29 | 0 16 | 2 9 | 2 32 | 22 25 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 11 | 22 2 | 18 58 | 16 38 | 6 51 |
| F 28 | 23 20 | 21 49 | 0 31 | 18 55 | 3 43 | 22 53 | 1 20 | 19 34 | 1 15 | 22 28 | 0 16 | 2 10 | 2 32 | 22 25 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 11 | 22 1 | 18 59 | 16 38 | 6 51 |
| S 29 | 23 17 | 22 20 | 0s35 | 18 45 | 3 56 | 22 41 | 1 21 | 19 24 | 1 14 | 22 26 | 0 16 | 2 11 | 2 32 | 22 26 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 11 | 22 1 | 19 0 | 16 38 | 6 51 |
| S 30 | 23n14 | 21n49 | 1s40 | 18n37 | 4s 8 | 22n29 | 1n22 | 19n14 | 1n14 | 22n24 | 0n16 | 2s12 | 2n32 | 22s26 | 0s30 | 22s23 | 1n 4 | 15n14 | 7s49 | 22s11 | 22s 1 | 19n 1 | 16s38 | 6n51 |

Julian Day Number = 2326783.5, Delta T = 37.47 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'21, Lahiri = 19°05'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## JULY 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 36 47 | 9♋ 7'23 | 12♋13 | 13°R36 | 26♋22 | 9♌37 | 19♋13 | 11♎27 | 20°R16 | 3°R 5 | 19♊ 8 | 11°R19 | 10♐ 5 | 17♉47 | 29°R30 | M 1 |
| T 2 | 18 40 43 | 10° 4'36 | 24°47 | 12♋59 | 27°36 | 10°14 | 19°26 | 11°28 | 20♑13 | 3♑ 4 | 19° 9 | 11♐16 | 10° 1 | 17°54 | 29♐26 | T 2 |
| W 3 | 18 44 40 | 11° 1'49 | 7♌33 | 12°21 | 28°49 | 10°52 | 19°40 | 11°30 | 20°11 | 3° 2 | 19°10 | 11°11 | 9°58 | 18° 1 | 29°22 | W 3 |
| T 4 | 18 48 37 | 11°59'01 | 20°34 | 11°43 | 0♌ 2 | 11°29 | 19°53 | 11°32 | 20° 9 | 3° 1 | 19°12 | 11° 6 | 9°55 | 18° 7 | 29°18 | T 4 |
| F 5 | 18 52 33 | 12°56'14 | 3♍48 | 11° 6 | 1°16 | 12° 6 | 20° 6 | 11°34 | 20° 6 | 2°59 | 19°13 | 11° 2 | 9°52 | 18°14 | 29°14 | F 5 |
| S 6 | 18 56 30 | 13°53'27 | 17°16 | 10°30 | 2°29 | 12°44 | 20°20 | 11°36 | 20° 4 | 2°57 | 19°14 | 10°58 | 9°49 | 18°21 | 29°11 | S 6 |
| S 7 | 19 0 26 | 14°50'40 | 0♎57 | 9°55 | 3°42 | 13°21 | 20°33 | 11°39 | 20° 1 | 2°56 | 19°16 | 10°56 | 9°45 | 18°27 | 29° 7 | S 7 |
| M 8 | 19 4 23 | 15°47'52 | 14°51 | 9°23 | 4°56 | 13°58 | 20°46 | 11°41 | 19°59 | 2°54 | 19°17 | 10°D55 | 9°42 | 18°34 | 29° 3 | M 8 |
| T 9 | 19 8 19 | 16°45'05 | 28°58 | 8°54 | 6° 9 | 14°36 | 21° 0 | 11°43 | 19°57 | 2°53 | 19°18 | 10°55 | 9°39 | 18°41 | 29° 0 | T 9 |
| W10 | 19 12 16 | 17°42'17 | 13♏15 | 8°29 | 7°22 | 15°13 | 21°13 | 11°46 | 19°54 | 2°51 | 19°20 | 10°57 | 9°36 | 18°47 | 28°56 | W10 |
| T 11 | 19 16 12 | 18°39'30 | 27°42 | 8° 7 | 8°36 | 15°51 | 21°27 | 11°49 | 19°52 | 2°50 | 19°21 | 10°58 | 9°33 | 18°54 | 28°52 | T 11 |
| F 12 | 19 20 9 | 19°36'43 | 12♐14 | 7°50 | 9°49 | 16°28 | 21°40 | 11°51 | 19°49 | 2°48 | 19°22 | 10°R59 | 9°30 | 19° 1 | 28°49 | F 12 |
| S 13 | 19 24 6 | 20°33'57 | 26°46 | 7°38 | 11° 2 | 17° 6 | 21°53 | 11°54 | 19°47 | 2°47 | 19°23 | 10°58 | 9°26 | 19° 7 | 28°45 | S 13 |
| S 14 | 19 28 2 | 21°31'10 | 11♑15 | 7°31 | 12°16 | 17°43 | 22° 7 | 11°57 | 19°45 | 2°45 | 19°25 | 10°55 | 9°23 | 19°14 | 28°42 | S 14 |
| M15 | 19 31 59 | 22°28'24 | 25°33 | 7°D29 | 13°29 | 18°21 | 22°20 | 12° 0 | 19°42 | 2°43 | 19°26 | 10°50 | 9°20 | 19°21 | 28°38 | M15 |
| T 16 | 19 35 55 | 23°25'39 | 9♒36 | 7°33 | 14°42 | 18°58 | 22°33 | 12° 3 | 19°40 | 2°42 | 19°27 | 10°44 | 9°17 | 19°27 | 28°35 | T 16 |
| W17 | 19 39 52 | 24°22'54 | 23°18 | 7°42 | 15°55 | 19°36 | 22°47 | 12° 6 | 19°37 | 2°41 | 19°28 | 10°37 | 9°14 | 19°34 | 28°32 | W17 |
| T 18 | 19 43 48 | 25°20'10 | 6♓38 | 7°58 | 17° 8 | 20°13 | 23° 0 | 12° 9 | 19°35 | 2°39 | 19°29 | 10°30 | 9°11 | 19°41 | 28°28 | T 18 |
| F 19 | 19 47 45 | 26°17'26 | 19°35 | 8°19 | 18°22 | 20°51 | 23°14 | 12°13 | 19°33 | 2°38 | 19°31 | 10°24 | 9° 7 | 19°47 | 28°25 | F 19 |
| S 20 | 19 51 41 | 27°14'44 | 2♈11 | 8°46 | 19°35 | 21°28 | 23°27 | 12°16 | 19°30 | 2°36 | 19°32 | 10°19 | 9° 4 | 19°54 | 28°22 | S 20 |
| S 21 | 19 55 38 | 28°12'02 | 14°28 | 9°18 | 20°48 | 22° 6 | 23°40 | 12°20 | 19°28 | 2°35 | 19°33 | 10°16 | 9° 1 | 20° 1 | 28°19 | S 21 |
| M22 | 19 59 35 | 29° 9'21 | 26°31 | 9°57 | 22° 1 | 22°43 | 23°54 | 12°23 | 19°25 | 2°33 | 19°34 | 10°D15 | 8°58 | 20° 7 | 28°16 | M22 |
| T 23 | 20 3 31 | 0♌ 6'42 | 8♉24 | 10°42 | 23°14 | 23°21 | 24° 7 | 12°27 | 19°23 | 2°32 | 19°35 | 10°16 | 8°55 | 20°14 | 28°13 | T 23 |
| W24 | 20 7 28 | 1° 4'03 | 20°13 | 11°32 | 24°27 | 23°59 | 24°20 | 12°31 | 19°21 | 2°31 | 19°36 | 10°17 | 8°51 | 20°21 | 28°10 | W24 |
| T 25 | 20 11 24 | 2° 1'26 | 2♊ 3 | 12°28 | 25°41 | 24°36 | 24°34 | 12°34 | 19°18 | 2°29 | 19°37 | 10°18 | 8°48 | 20°27 | 28° 7 | T 25 |
| F 26 | 20 15 21 | 2°58'49 | 13°58 | 13°30 | 26°54 | 25°14 | 24°47 | 12°38 | 19°16 | 2°28 | 19°38 | 10°R18 | 8°45 | 20°34 | 28° 4 | F 26 |
| S 27 | 20 19 17 | 3°56'14 | 26° 3 | 14°37 | 28° 7 | 25°52 | 25° 0 | 12°42 | 19°14 | 2°26 | 19°40 | 10°17 | 8°42 | 20°40 | 28° 1 | S 27 |
| S 28 | 20 23 14 | 4°53'40 | 8♋22 | 15°50 | 29°20 | 26°30 | 25°13 | 12°46 | 19°11 | 2°25 | 19°41 | 10°13 | 8°39 | 20°47 | 27°58 | S 28 |
| M29 | 20 27 10 | 5°51'06 | 20°57 | 17° 8 | 0♍33 | 27° 7 | 25°27 | 12°50 | 19° 9 | 2°24 | 19°42 | 10° 7 | 8°36 | 20°54 | 27°56 | M29 |
| T 30 | 20 31 7 | 6°48'34 | 3♌49 | 18°30 | 1°46 | 27°45 | 25°40 | 12°55 | 19° 7 | 2°23 | 19°43 | 9°59 | 8°32 | 21° 0 | 27°53 | T 30 |
| W31 | 20 35 4 | 7♌46'03 | 16♌58 | 19♋58 | 2♍59 | 28♌23 | 25♋53 | 12♎59 | 19♑ 5 | 2♑21 | 19♊44 | 9♐50 | 8♐29 | 21♉ 7 | 27♐51 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23n10 | 20n15 | 2s41 | 18n30 | 4s18 | 22n17 | 1n23 | 19n 4 | 1n14 | 22n22 | 0n16 | 2s13 | 2n31 | 22s26 | 0s30 | 22s23 | 1n 4 | 15n14 | 7s49 | 22s11 | 22s 0 | 19n 3 | 16s38 | 6n51 |
| T 2 | 23 6 | 17 40 | 3 36 | 18 25 | 4 27 | 22 4 | 1 24 | 18 53 | 1 14 | 22 21 | 0 16 | 2 14 | 2 31 | 22 27 | 0 30 | 22 23 | 1 4 | 15 14 | 7 49 | 22 10 | 22 0 | 19 4 | 16 38 | 6 51 |
| W 3 | 23 1 | 14 13 | 4 21 | 18 20 | 4 35 | 21 50 | 1 25 | 18 43 | 1 13 | 22 19 | 0 17 | 2 15 | 2 31 | 22 27 | 0 30 | 22 23 | 1 4 | 15 15 | 7 49 | 22 10 | 21 59 | 19 5 | 16 38 | 6 51 |
| T 4 | 22 56 | 10 2 | 4 53 | 18 17 | 4 42 | 21 35 | 1 26 | 18 32 | 1 13 | 22 17 | 0 17 | 2 16 | 2 31 | 22 27 | 0 30 | 22 23 | 1 4 | 15 15 | 7 49 | 22 9 | 21 59 | 19 6 | 16 38 | 6 51 |
| F 5 | 22 51 | 5 19 | 5 10 | 18 16 | 4 46 | 21 20 | 1 27 | 18 22 | 1 13 | 22 15 | 0 17 | 2 17 | 2 30 | 22 28 | 0 30 | 22 23 | 1 4 | 15 15 | 7 49 | 22 8 | 21 58 | 19 7 | 16 38 | 6 50 |
| S 6 | 22 45 | 0 16 | 5 10 | 18 15 | 4 50 | 21 4 | 1 28 | 18 11 | 1 13 | 22 13 | 0 17 | 2 18 | 2 30 | 22 28 | 0 30 | 22 23 | 1 4 | 15 15 | 7 49 | 22 8 | 21 58 | 19 8 | 16 38 | 6 50 |
| S 7 | 22 39 | 4s52 | 4 54 | 18 16 | 4 51 | 20 48 | 1 29 | 18 0 | 1 12 | 22 11 | 0 17 | 2 19 | 2 30 | 22 29 | 0 30 | 22 23 | 1 4 | 15 15 | 7 49 | 22 7 | 21 57 | 19 9 | 16 38 | 6 50 |
| M 8 | 22 33 | 9 51 | 4 19 | 18 19 | 4 51 | 20 31 | 1 30 | 17 49 | 1 12 | 22 9 | 0 17 | 2 20 | 2 30 | 22 29 | 0 30 | 22 23 | 1 4 | 15 15 | 7 49 | 22 7 | 21 57 | 19 10 | 16 39 | 6 50 |
| T 9 | 22 26 | 14 23 | 3 29 | 18 23 | 4 49 | 20 14 | 1 31 | 17 38 | 1 12 | 22 7 | 0 17 | 2 21 | 2 29 | 22 29 | 0 30 | 22 23 | 1 4 | 15 15 | 7 49 | 22 7 | 21 56 | 19 11 | 16 39 | 6 50 |
| W10 | 22 19 | 18 9 | 2 25 | 18 27 | 4 46 | 19 56 | 1 31 | 17 26 | 1 12 | 22 5 | 0 17 | 2 22 | 2 29 | 22 30 | 0 30 | 22 24 | 1 4 | 15 15 | 7 50 | 22 8 | 21 56 | 19 12 | 16 39 | 6 50 |
| T 11 | 22 11 | 20 51 | 1 12 | 18 34 | 4 41 | 19 37 | 1 32 | 17 15 | 1 11 | 22 3 | 0 17 | 2 24 | 2 29 | 22 30 | 0 30 | 22 24 | 1 4 | 15 15 | 7 50 | 22 8 | 21 55 | 19 13 | 16 39 | 6 50 |
| F 12 | 22 3 | 22 11 | 0n 7 | 18 41 | 4 35 | 19 18 | 1 32 | 17 4 | 1 11 | 22 1 | 0 17 | 2 25 | 2 29 | 22 30 | 0 30 | 22 24 | 1 4 | 15 15 | 7 50 | 22 8 | 21 55 | 19 14 | 16 39 | 6 50 |
| S 13 | 21 54 | 22 2 | 1 25 | 18 49 | 4 27 | 18 59 | 1 33 | 16 52 | 1 11 | 21 59 | 0 17 | 2 26 | 2 28 | 22 31 | 0 30 | 22 24 | 1 4 | 15 15 | 7 50 | 22 8 | 21 54 | 19 15 | 16 39 | 6 50 |
| S 14 | 21 46 | 20 24 | 2 37 | 18 58 | 4 18 | 18 38 | 1 33 | 16 40 | 1 11 | 21 57 | 0 18 | 2 28 | 2 28 | 22 31 | 0 30 | 22 24 | 1 4 | 15 15 | 7 50 | 22 7 | 21 54 | 19 16 | 16 39 | 6 49 |
| M15 | 21 36 | 17 30 | 3 38 | 19 8 | 4 9 | 18 18 | 1 33 | 16 28 | 1 10 | 21 55 | 0 18 | 2 29 | 2 28 | 22 31 | 0 30 | 22 24 | 1 4 | 15 15 | 7 50 | 22 7 | 21 53 | 19 17 | 16 39 | 6 49 |
| T 16 | 21 27 | 13 37 | 4 25 | 19 19 | 3 58 | 17 57 | 1 34 | 16 16 | 1 10 | 21 53 | 0 18 | 2 30 | 2 28 | 22 32 | 0 30 | 22 24 | 1 3 | 15 15 | 7 50 | 22 6 | 21 53 | 19 19 | 16 39 | 6 49 |
| W17 | 21 17 | 9 8 | 4 55 | 19 30 | 3 46 | 17 35 | 1 34 | 16 4 | 1 10 | 21 51 | 0 18 | 2 32 | 2 27 | 22 32 | 0 30 | 22 24 | 1 3 | 15 15 | 7 50 | 22 5 | 21 52 | 19 20 | 16 40 | 6 49 |
| T 18 | 21 7 | 4 19 | 5 8 | 19 42 | 3 33 | 17 13 | 1 34 | 15 52 | 1 9 | 21 49 | 0 18 | 2 33 | 2 27 | 22 33 | 0 30 | 22 24 | 1 3 | 15 15 | 7 50 | 22 4 | 21 52 | 19 21 | 16 40 | 6 49 |
| F 19 | 20 56 | 0n33 | 5 5 | 19 54 | 3 20 | 16 50 | 1 34 | 15 40 | 1 9 | 21 47 | 0 18 | 2 35 | 2 27 | 22 33 | 0 30 | 22 24 | 1 3 | 15 15 | 7 50 | 22 3 | 21 51 | 19 22 | 16 40 | 6 48 |
| S 20 | 20 45 | 5 15 | 4 47 | 20 6 | 3 6 | 16 27 | 1 34 | 15 28 | 1 9 | 21 44 | 0 18 | 2 36 | 2 27 | 22 33 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 51 | 19 23 | 16 40 | 6 48 |
| S 21 | 20 34 | 9 39 | 4 16 | 20 18 | 2 52 | 16 4 | 1 34 | 15 15 | 1 9 | 21 42 | 0 18 | 2 38 | 2 27 | 22 34 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 51 | 19 24 | 16 40 | 6 48 |
| M22 | 20 22 | 13 34 | 3 34 | 20 30 | 2 37 | 15 40 | 1 33 | 15 2 | 1 8 | 21 40 | 0 18 | 2 39 | 2 26 | 22 34 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 50 | 19 25 | 16 41 | 6 48 |
| T 23 | 20 10 | 16 55 | 2 44 | 20 41 | 2 22 | 15 16 | 1 33 | 14 50 | 1 8 | 21 38 | 0 18 | 2 41 | 2 26 | 22 34 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 50 | 19 26 | 16 41 | 6 47 |
| W24 | 19 57 | 19 32 | 1 46 | 20 52 | 2 7 | 14 51 | 1 33 | 14 37 | 1 8 | 21 35 | 0 18 | 2 43 | 2 26 | 22 35 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 49 | 19 27 | 16 41 | 6 47 |
| T 25 | 19 45 | 21 20 | 0 44 | 21 2 | 1 52 | 14 26 | 1 32 | 14 24 | 1 7 | 21 33 | 0 19 | 2 44 | 2 26 | 22 35 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 49 | 19 28 | 16 41 | 6 47 |
| F 26 | 19 32 | 22 11 | 0s20 | 21 11 | 1 37 | 14 0 | 1 32 | 14 11 | 1 7 | 21 31 | 0 19 | 2 46 | 2 25 | 22 35 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 48 | 19 29 | 16 41 | 6 47 |
| S 27 | 19 18 | 22 2 | 1 24 | 21 19 | 1 22 | 13 35 | 1 31 | 13 58 | 1 7 | 21 29 | 0 19 | 2 48 | 2 25 | 22 36 | 0 30 | 22 24 | 1 3 | 15 16 | 7 50 | 22 2 | 21 48 | 19 29 | 16 42 | 6 46 |
| S 28 | 19 5 | 20 48 | 2 25 | 21 26 | 1 7 | 13 8 | 1 30 | 13 45 | 1 7 | 21 26 | 0 19 | 2 50 | 2 25 | 22 36 | 0 30 | 22 24 | 1 3 | 15 16 | 7 51 | 22 1 | 21 47 | 19 30 | 16 42 | 6 46 |
| M29 | 18 51 | 18 33 | 3 20 | 21 31 | 0 52 | 12 42 | 1 30 | 13 32 | 1 6 | 21 24 | 0 19 | 2 51 | 2 25 | 22 36 | 0 30 | 22 25 | 1 3 | 15 16 | 7 51 | 22 0 | 21 47 | 19 31 | 16 42 | 6 46 |
| T 30 | 18 36 | 15 20 | 4 7 | 21 35 | 0 38 | 12 15 | 1 29 | 13 18 | 1 6 | 21 22 | 0 19 | 2 53 | 2 25 | 22 37 | 0 30 | 22 25 | 1 3 | 15 16 | 7 51 | 21 59 | 21 46 | 19 32 | 16 43 | 6 45 |
| W31 | 18n22 | 11n19 | 4s41 | 21n36 | 0s24 | 11n48 | 1n28 | 13n 5 | 1n 6 | 21n19 | 0n19 | 2s55 | 2n24 | 22s37 | 0s30 | 22s25 | 1n 3 | 15n16 | 7s51 | 21s58 | 21s46 | 19n33 | 16s43 | 6n45 |

Julian Day Number = 2326813.5, Delta T = 37.42 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'25, Lahiri = 19°05'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## AUGUST 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 39 0 | 8♌43'32 | 0♍22 | 21♋30 | 4♍12 | 29♌ 1 | 26♋ 6 | 13♎ 3 | 19°R 2 | 2°R20 | 19♊45 | 9°R40 | 8♐26 | 21♉14 | 27°R48 | T 1 |
| F 2 | 20 42 57 | 9°41'03 | 13°59 | 23° 7 | 5°25 | 29°39 | 26°20 | 13° 8 | 19♂ 0 | 2♂19 | 19°46 | 9♐31 | 8°23 | 21°20 | 27♐46 | F 2 |
| S 3 | 20 46 53 | 10°38'34 | 27°48 | 24°48 | 6°38 | 0♍17 | 26°33 | 13°12 | 18°58 | 2°18 | 19°47 | 9°23 | 8°20 | 21°27 | 27°43 | S 3 |
| S 4 | 20 50 50 | 11°36'07 | 11♎44 | 26°32 | 7°51 | 0°54 | 26°46 | 13°17 | 18°56 | 2°17 | 19°48 | 9°17 | 8°17 | 21°34 | 27°41 | S 4 |
| M 5 | 20 54 46 | 12°33'40 | 25°46 | 28°20 | 9° 4 | 1°32 | 26°59 | 13°22 | 18°54 | 2°15 | 19°48 | 9°14 | 8°13 | 21°40 | 27°39 | M 5 |
| T 6 | 20 58 43 | 13°31'14 | 9♏51 | 0♌10 | 10°17 | 2°10 | 27°12 | 13°26 | 18°52 | 2°14 | 19°49 | 9°D13 | 8°10 | 21°47 | 27°37 | T 6 |
| W 7 | 21 2 39 | 14°28'49 | 24° 0 | 2° 4 | 11°30 | 2°48 | 27°25 | 13°31 | 18°49 | 2°13 | 19°50 | 9°13 | 8° 7 | 21°54 | 27°35 | W 7 |
| T 8 | 21 6 36 | 15°26'25 | 8♐10 | 4° 0 | 12°43 | 3°26 | 27°38 | 13°36 | 18°47 | 2°12 | 19°51 | 9°R13 | 8° 4 | 22° 0 | 27°33 | T 8 |
| F 9 | 21 10 33 | 16°24'01 | 22°19 | 5°57 | 13°55 | 4° 4 | 27°51 | 13°41 | 18°45 | 2°11 | 19°52 | 9°13 | 8° 1 | 22° 7 | 27°31 | F 9 |
| S 10 | 21 14 29 | 17°21'39 | 6♑27 | 7°56 | 15° 8 | 4°42 | 28° 4 | 13°46 | 18°43 | 2°10 | 19°53 | 9°10 | 7°57 | 22°14 | 27°29 | S 10 |
| S 11 | 21 18 26 | 18°19'18 | 20°30 | 9°56 | 16°21 | 5°20 | 28°17 | 13°51 | 18°41 | 2° 9 | 19°54 | 9° 5 | 7°54 | 22°20 | 27°27 | S 11 |
| M12 | 21 22 22 | 19°16'58 | 4♒25 | 11°57 | 17°34 | 5°58 | 28°30 | 13°56 | 18°39 | 2° 8 | 19°55 | 8°57 | 7°51 | 22°27 | 27°25 | M12 |
| T 13 | 21 26 19 | 20°14'39 | 18° 9 | 13°58 | 18°46 | 6°36 | 28°43 | 14° 1 | 18°37 | 2° 7 | 19°55 | 8°47 | 7°48 | 22°34 | 27°24 | T 13 |
| W14 | 21 30 15 | 21°12'22 | 1♓36 | 16° 0 | 19°59 | 7°14 | 28°56 | 14° 7 | 18°36 | 2° 6 | 19°56 | 8°36 | 7°45 | 22°40 | 27°22 | W14 |
| T 15 | 21 34 12 | 22°10'06 | 14°46 | 18° 1 | 21°12 | 7°53 | 29° 8 | 14°12 | 18°34 | 2° 5 | 19°57 | 8°24 | 7°42 | 22°47 | 27°21 | T 15 |
| F 16 | 21 38 8 | 23° 7'51 | 27°37 | 20° 2 | 22°25 | 8°31 | 29°21 | 14°17 | 18°32 | 2° 4 | 19°58 | 8°13 | 7°38 | 22°54 | 27°20 | F 16 |
| S 17 | 21 42 5 | 24° 5'38 | 10♈ 9 | 22° 3 | 23°37 | 9° 9 | 29°34 | 14°23 | 18°30 | 2° 4 | 19°58 | 8° 4 | 7°35 | 23° 0 | 27°18 | S 17 |
| S 18 | 21 46 2 | 25° 3'27 | 22°24 | 24° 3 | 24°50 | 9°47 | 29°47 | 14°28 | 18°28 | 2° 3 | 19°59 | 7°58 | 7°32 | 23° 7 | 27°17 | S 18 |
| M19 | 21 49 58 | 26° 1'17 | 4♉26 | 26° 2 | 26° 2 | 10°25 | 29°59 | 14°34 | 18°26 | 2° 2 | 20° 0 | 7°54 | 7°29 | 23°13 | 27°16 | M19 |
| T 20 | 21 53 55 | 26°59'09 | 16°18 | 28° 0 | 27°15 | 11° 3 | 0♌12 | 14°40 | 18°25 | 2° 1 | 20° 0 | 7°52 | 7°26 | 23°20 | 27°15 | T 20 |
| W21 | 21 57 51 | 27°57'03 | 28° 7 | 29°57 | 28°27 | 11°42 | 0°24 | 14°45 | 18°23 | 2° 0 | 20° 1 | 7°D52 | 7°23 | 23°27 | 27°14 | W21 |
| T 22 | 22 1 48 | 28°54'59 | 9♊57 | 1♍53 | 29°40 | 12°20 | 0°37 | 14°51 | 18°21 | 2° 0 | 20° 2 | 7°R52 | 7°19 | 23°33 | 27°13 | T 22 |
| F 23 | 22 5 44 | 29°52'57 | 21°53 | 3°48 | 0♎52 | 12°58 | 0°49 | 14°57 | 18°20 | 1°59 | 20° 2 | 7°51 | 7°16 | 23°40 | 27°12 | F 23 |
| S 24 | 22 9 41 | 0♍50'56 | 4♋ 2 | 5°41 | 2° 5 | 13°37 | 1° 2 | 15° 3 | 18°18 | 1°58 | 20° 3 | 7°49 | 7°13 | 23°47 | 27°11 | S 24 |
| S 25 | 22 13 37 | 1°48'58 | 16°28 | 7°34 | 3°17 | 14°15 | 1°14 | 15° 9 | 18°17 | 1°58 | 20° 3 | 7°44 | 7°10 | 23°53 | 27°11 | S 25 |
| M26 | 22 17 34 | 2°47'01 | 29°13 | 9°25 | 4°30 | 14°53 | 1°26 | 15°15 | 18°15 | 1°57 | 20° 4 | 7°37 | 7° 7 | 24° 0 | 27°10 | M26 |
| T 27 | 22 21 31 | 3°45'06 | 12♌19 | 11°15 | 5°42 | 15°32 | 1°39 | 15°21 | 18°14 | 1°57 | 20° 5 | 7°27 | 7° 3 | 24° 7 | 27°10 | T 27 |
| W28 | 22 25 27 | 4°43'13 | 25°48 | 13° 4 | 6°55 | 16°10 | 1°51 | 15°27 | 18°12 | 1°56 | 20° 5 | 7°16 | 7° 0 | 24°13 | 27° 9 | W28 |
| T 29 | 22 29 24 | 5°41'21 | 9♍36 | 14°51 | 8° 7 | 16°49 | 2° 3 | 15°33 | 18°11 | 1°56 | 20° 6 | 7° 3 | 6°57 | 24°20 | 27° 9 | T 29 |
| F 30 | 22 33 20 | 6°39'31 | 23°39 | 16°37 | 9°19 | 17°27 | 2°15 | 15°39 | 18° 9 | 1°55 | 20° 6 | 6°52 | 6°54 | 24°27 | 27° 9 | F 30 |
| S 31 | 22 37 17 | 7♍37'43 | 7♎53 | 18♍22 | 10♎32 | 18♍ 6 | 2♌27 | 15♎45 | 18♂ 8 | 1♂55 | 20♊ 6 | 6♐42 | 6♐51 | 24♉33 | 27♐ 9 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n 7 | 6n40 | 5s 1 | 21n36 | 0s10 | 11n20 | 1n27 | 12n52 | 1n 5 | 21n17 | 0n19 | 2s57 | 2n24 | 22s37 | 0s30 | 22s25 | 1n 3 | 15n16 | 7s51 | 21s56 | 21s45 | 19n34 | 16s43 | 6n45 |
| F 2 | 17 51 | 1 38 | 5 4 | 21 33 | 0n 3 | 10 53 | 1 26 | 12 38 | 1 5 | 21 15 | 0 19 | 2 59 | 2 24 | 22 37 | 0 30 | 22 25 | 1 3 | 15 16 | 7 51 | 21 55 | 21 45 | 19 35 | 16 43 | 6 44 |
| S 3 | 17 36 | 3s32 | 4 49 | 21 28 | 0 15 | 10 25 | 1 25 | 12 24 | 1 5 | 21 12 | 0 19 | 3 1 | 2 24 | 22 38 | 0 30 | 22 25 | 1 3 | 15 16 | 7 51 | 21 54 | 21 44 | 19 36 | 16 44 | 6 44 |
| S 4 | 17 20 | 8 36 | 4 17 | 21 20 | 0 27 | 9 56 | 1 24 | 12 11 | 1 4 | 21 10 | 0 20 | 3 3 | 2 24 | 22 38 | 0 30 | 22 25 | 1 3 | 15 16 | 7 51 | 21 53 | 21 44 | 19 37 | 16 44 | 6 44 |
| M 5 | 17 4 | 13 14 | 3 30 | 21 9 | 0 38 | 9 28 | 1 23 | 11 57 | 1 4 | 21 7 | 0 20 | 3 5 | 2 23 | 22 38 | 0 30 | 22 25 | 1 3 | 15 16 | 7 51 | 21 53 | 21 43 | 19 38 | 16 44 | 6 43 |
| T 6 | 16 48 | 17 10 | 2 30 | 20 56 | 0 48 | 8 59 | 1 21 | 11 43 | 1 4 | 21 5 | 0 20 | 3 7 | 2 23 | 22 39 | 0 30 | 22 25 | 1 3 | 15 16 | 7 51 | 21 52 | 21 43 | 19 39 | 16 45 | 6 43 |
| W 7 | 16 31 | 20 6 | 1 20 | 20 41 | 0 58 | 8 30 | 1 20 | 11 29 | 1 3 | 21 2 | 0 20 | 3 9 | 2 23 | 22 39 | 0 30 | 22 25 | 1 3 | 15 15 | 7 51 | 21 52 | 21 42 | 19 40 | 16 45 | 6 43 |
| T 8 | 16 14 | 21 48 | 0 6 | 20 22 | 1 6 | 8 1 | 1 18 | 11 15 | 1 3 | 21 0 | 0 20 | 3 11 | 2 23 | 22 39 | 0 30 | 22 25 | 1 3 | 15 15 | 7 51 | 21 52 | 21 42 | 19 41 | 16 45 | 6 42 |
| F 9 | 15 57 | 22 6 | 1n 9 | 20 1 | 1 14 | 7 31 | 1 17 | 11 1 | 1 3 | 20 57 | 0 20 | 3 13 | 2 23 | 22 40 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 52 | 21 41 | 19 42 | 16 46 | 6 42 |
| S 10 | 15 40 | 21 0 | 2 20 | 19 37 | 1 21 | 7 1 | 1 15 | 10 46 | 1 3 | 20 55 | 0 20 | 3 15 | 2 22 | 22 40 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 52 | 21 41 | 19 43 | 16 46 | 6 42 |
| S 11 | 15 22 | 18 36 | 3 21 | 19 11 | 1 27 | 6 32 | 1 14 | 10 32 | 1 2 | 20 52 | 0 20 | 3 17 | 2 22 | 22 40 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 51 | 21 40 | 19 44 | 16 46 | 6 41 |
| M12 | 15 4 | 15 9 | 4 9 | 18 43 | 1 32 | 6 2 | 1 12 | 10 18 | 1 2 | 20 50 | 0 20 | 3 20 | 2 22 | 22 40 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 50 | 21 40 | 19 44 | 16 47 | 6 41 |
| T 13 | 14 46 | 10 56 | 4 43 | 18 12 | 1 37 | 5 31 | 1 10 | 10 3 | 1 2 | 20 47 | 0 21 | 3 22 | 2 22 | 22 41 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 48 | 21 39 | 19 45 | 16 47 | 6 40 |
| W14 | 14 27 | 6 15 | 5 0 | 17 40 | 1 40 | 5 1 | 1 8 | 9 49 | 1 1 | 20 45 | 0 21 | 3 24 | 2 22 | 22 41 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 47 | 21 38 | 19 46 | 16 48 | 6 40 |
| T 15 | 14 9 | 1 24 | 5 0 | 17 5 | 1 43 | 4 31 | 1 6 | 9 34 | 1 1 | 20 42 | 0 21 | 3 26 | 2 22 | 22 41 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 45 | 21 38 | 19 47 | 16 48 | 6 40 |
| F 16 | 13 50 | 3n24 | 4 45 | 16 29 | 1 45 | 4 0 | 1 4 | 9 20 | 1 1 | 20 40 | 0 21 | 3 28 | 2 21 | 22 41 | 0 30 | 22 25 | 1 3 | 15 15 | 7 52 | 21 43 | 21 37 | 19 48 | 16 48 | 6 39 |
| S 17 | 13 31 | 7 57 | 4 16 | 15 51 | 1 46 | 3 29 | 1 2 | 9 5 | 1 0 | 20 37 | 0 21 | 3 31 | 2 21 | 22 42 | 0 30 | 22 26 | 1 2 | 15 15 | 7 52 | 21 42 | 21 37 | 19 49 | 16 49 | 6 39 |
| S 18 | 13 12 | 12 5 | 3 37 | 15 12 | 1 46 | 2 59 | 1 0 | 8 50 | 1 0 | 20 35 | 0 21 | 3 33 | 2 21 | 22 42 | 0 30 | 22 26 | 1 2 | 15 15 | 7 53 | 21 41 | 21 36 | 19 50 | 16 49 | 6 38 |
| M19 | 12 52 | 15 39 | 2 48 | 14 31 | 1 46 | 2 28 | 0 58 | 8 35 | 1 0 | 20 32 | 0 21 | 3 35 | 2 21 | 22 42 | 0 30 | 22 26 | 1 2 | 15 15 | 7 53 | 21 40 | 21 36 | 19 51 | 16 50 | 6 38 |
| T 20 | 12 32 | 18 32 | 1 52 | 13 50 | 1 45 | 1 57 | 0 56 | 8 21 | 0 59 | 20 30 | 0 21 | 3 38 | 2 21 | 22 42 | 0 30 | 22 26 | 1 2 | 15 15 | 7 53 | 21 40 | 21 35 | 19 51 | 16 50 | 6 37 |
| W21 | 12 12 | 20 37 | 0 52 | 13 7 | 1 43 | 1 26 | 0 53 | 8 6 | 0 59 | 20 27 | 0 21 | 3 40 | 2 21 | 22 43 | 0 30 | 22 26 | 1 2 | 15 15 | 7 53 | 21 40 | 21 35 | 19 52 | 16 50 | 6 37 |
| T 22 | 11 52 | 21 48 | 0s11 | 12 24 | 1 41 | 0 55 | 0 51 | 7 51 | 0 58 | 20 24 | 0 22 | 3 42 | 2 20 | 22 43 | 0 30 | 22 26 | 1 2 | 15 15 | 7 53 | 21 40 | 21 34 | 19 53 | 16 51 | 6 36 |
| F 23 | 11 32 | 22 0 | 1 14 | 11 40 | 1 39 | 0 24 | 0 49 | 7 36 | 0 58 | 20 22 | 0 22 | 3 45 | 2 20 | 22 43 | 0 30 | 22 26 | 1 2 | 15 15 | 7 53 | 21 39 | 21 34 | 19 54 | 16 51 | 6 36 |
| S 24 | 11 12 | 21 11 | 2 14 | 10 55 | 1 36 | 0s 8 | 0 46 | 7 21 | 0 58 | 20 19 | 0 22 | 3 47 | 2 20 | 22 43 | 0 30 | 22 26 | 1 2 | 15 15 | 7 53 | 21 39 | 21 33 | 19 55 | 16 52 | 6 36 |
| S 25 | 10 51 | 19 20 | 3 9 | 10 10 | 1 32 | 0 39 | 0 44 | 7 5 | 0 57 | 20 17 | 0 22 | 3 49 | 2 20 | 22 43 | 0 30 | 22 26 | 1 2 | 15 14 | 7 53 | 21 38 | 21 33 | 19 56 | 16 52 | 6 35 |
| M26 | 10 30 | 16 30 | 3 56 | 9 25 | 1 28 | 1 10 | 0 41 | 6 50 | 0 57 | 20 14 | 0 22 | 3 52 | 2 20 | 22 44 | 0 30 | 22 26 | 1 2 | 15 14 | 7 53 | 21 37 | 21 32 | 19 56 | 16 53 | 6 35 |
| T 27 | 10 9 | 12 46 | 4 33 | 8 39 | 1 24 | 1 41 | 0 38 | 6 35 | 0 57 | 20 11 | 0 22 | 3 54 | 2 20 | 22 44 | 0 30 | 22 26 | 1 2 | 15 14 | 7 54 | 21 36 | 21 32 | 19 57 | 16 53 | 6 34 |
| W28 | 9 48 | 8 19 | 4 55 | 7 53 | 1 19 | 2 12 | 0 36 | 6 20 | 0 56 | 20 9 | 0 22 | 3 57 | 2 19 | 22 44 | 0 30 | 22 26 | 1 2 | 15 14 | 7 54 | 21 34 | 21 31 | 19 58 | 16 54 | 6 34 |
| T 29 | 9 27 | 3 21 | 5 0 | 7 7 | 1 14 | 2 43 | 0 33 | 6 4 | 0 56 | 20 6 | 0 22 | 3 59 | 2 19 | 22 44 | 0 30 | 22 26 | 1 2 | 15 14 | 7 54 | 21 32 | 21 31 | 19 59 | 16 54 | 6 33 |
| F 30 | 9 5 | 1s53 | 4 48 | 6 20 | 1 8 | 3 14 | 0 30 | 5 49 | 0 56 | 20 4 | 0 23 | 4 2 | 2 19 | 22 44 | 0 30 | 22 26 | 1 2 | 15 14 | 7 54 | 21 30 | 21 30 | 20 0 | 16 54 | 6 33 |
| S 31 | 8n43 | 7s 5 | 4s18 | 5n34 | 1n 3 | 3s45 | 0n27 | 5n34 | 0n55 | 20n 1 | 0n23 | 4s 4 | 2n19 | 22s44 | 0s30 | 22s26 | 1n 2 | 15n14 | 7s54 | 21s28 | 21s30 | 20n 0 | 16s55 | 6n32 |

Julian Day Number = 2326844.5, Delta T = 37.36 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'29, Lahiri = 19°05'30Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## SEPTEMBER 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 41 13 | 8♍35'56 | 22♎13 | 20♍ 6 | 11♎44 | 18♍44 | 2♌39 | 15♎52 | 18°R 7 | 1°R54 | 20♊ 7 | 6°R34 | 6♐48 | 24♉40 | 27°D 9 | S 1 |
| M 2 | 22 45 10 | 9°34'11 | 6♏33 | 21°49 | 12°56 | 19°23 | 2°51 | 15°58 | 18♑ 6 | 1♑54 | 20° 7 | 6♐29 | 6°44 | 24°47 | 27♐ 9 | M 2 |
| T 3 | 22 49 6 | 10°32'27 | 20°49 | 23°30 | 14° 8 | 20° 2 | 3° 3 | 16° 4 | 18° 5 | 1°53 | 20° 8 | 6°27 | 6°41 | 24°53 | 27° 9 | T 3 |
| W 4 | 22 53 3 | 11°30'45 | 5♐ 0 | 25°10 | 15°20 | 20°40 | 3°15 | 16°11 | 18° 3 | 1°53 | 20° 8 | 6°27 | 6°38 | 25° 0 | 27° 9 | W 4 |
| T 5 | 22 56 59 | 12°29'05 | 19° 3 | 26°49 | 16°32 | 21°19 | 3°26 | 16°17 | 18° 2 | 1°53 | 20° 8 | 6°27 | 6°35 | 25° 6 | 27° 9 | T 5 |
| F 6 | 23 0 56 | 13°27'26 | 3♑ 0 | 28°27 | 17°45 | 21°58 | 3°38 | 16°24 | 18° 1 | 1°53 | 20° 9 | 6°26 | 6°32 | 25°13 | 27°10 | F 6 |
| S 7 | 23 4 53 | 14°25'48 | 16°48 | 0♏ 4 | 18°57 | 22°36 | 3°50 | 16°30 | 18° 0 | 1°52 | 20° 9 | 6°23 | 6°29 | 25°20 | 27°10 | S 7 |
| S 8 | 23 8 49 | 15°24'12 | 0♒28 | 1°40 | 20° 9 | 23°15 | 4° 1 | 16°37 | 17°59 | 1°52 | 20° 9 | 6°17 | 6°25 | 25°26 | 27°11 | S 8 |
| M 9 | 23 12 46 | 16°22'38 | 13°58 | 3°15 | 21°20 | 23°54 | 4°13 | 16°43 | 17°58 | 1°52 | 20° 9 | 6° 9 | 6°22 | 25°33 | 27°11 | M 9 |
| T 10 | 23 16 42 | 17°21'06 | 27°17 | 4°48 | 22°32 | 24°33 | 4°24 | 16°50 | 17°58 | 1°52 | 20°10 | 5°58 | 6°19 | 25°40 | 27°12 | T 10 |
| W11 | 23 20 39 | 18°19'35 | 10♓24 | 6°21 | 23°44 | 25°12 | 4°35 | 16°57 | 17°57 | 1°52 | 20°10 | 5°45 | 6°16 | 25°46 | 27°13 | W11 |
| T 12 | 23 24 35 | 19°18'06 | 23°16 | 7°52 | 24°56 | 25°50 | 4°46 | 17° 3 | 17°56 | 1°52 | 20°10 | 5°33 | 6°13 | 25°53 | 27°14 | T 12 |
| F 13 | 23 28 32 | 20°16'39 | 5♈54 | 9°22 | 26° 8 | 26°29 | 4°58 | 17°10 | 17°55 | 1°D52 | 20°10 | 5°21 | 6° 9 | 26° 0 | 27°15 | F 13 |
| S 14 | 23 32 28 | 21°15'14 | 18°17 | 10°52 | 27°20 | 27° 8 | 5° 9 | 17°17 | 17°55 | 1°52 | 20°10 | 5°11 | 6° 6 | 26° 6 | 27°16 | S 14 |
| S 15 | 23 36 25 | 22°13'51 | 0♉26 | 12°20 | 28°31 | 27°47 | 5°20 | 17°24 | 17°54 | 1°52 | 20°10 | 5° 4 | 6° 3 | 26°13 | 27°17 | S 15 |
| M16 | 23 40 22 | 23°12'30 | 12°24 | 13°47 | 29°43 | 28°26 | 5°31 | 17°30 | 17°53 | 1°52 | 20°11 | 4°59 | 6° 0 | 26°20 | 27°18 | M16 |
| T 17 | 23 44 18 | 24°11'12 | 24°15 | 15°13 | 0♏55 | 29° 5 | 5°41 | 17°37 | 17°53 | 1°52 | 20°11 | 4°57 | 5°57 | 26°26 | 27°20 | T 17 |
| W18 | 23 48 15 | 25° 9'56 | 6♊ 2 | 16°38 | 2° 6 | 29°44 | 5°52 | 17°44 | 17°52 | 1°52 | 20°11 | 4°D56 | 5°54 | 26°33 | 27°21 | W18 |
| T 19 | 23 52 11 | 26° 8'42 | 17°51 | 18° 2 | 3°18 | 0♎23 | 6° 3 | 17°51 | 17°52 | 1°52 | 20°11 | 4°56 | 5°50 | 26°40 | 27°23 | T 19 |
| F 20 | 23 56 8 | 27° 7'30 | 29°47 | 19°25 | 4°29 | 1° 2 | 6°13 | 17°58 | 17°52 | 1°52 | 20°R11 | 4°R57 | 5°47 | 26°46 | 27°24 | F 20 |
| S 21 | 0 0 4 | 28° 6'20 | 11♋55 | 20°46 | 5°41 | 1°42 | 6°24 | 18° 5 | 17°51 | 1°53 | 20°11 | 4°56 | 5°44 | 26°53 | 27°26 | S 21 |
| S 22 | 0 4 1 | 29° 5'13 | 24°21 | 22° 6 | 6°52 | 2°21 | 6°34 | 18°12 | 17°51 | 1°53 | 20°11 | 4°53 | 5°41 | 26°59 | 27°27 | S 22 |
| M23 | 0 7 57 | 0♎ 4'08 | 7♌ 9 | 23°25 | 8° 4 | 3° 0 | 6°45 | 18°19 | 17°51 | 1°53 | 20°11 | 4°47 | 5°38 | 27° 6 | 27°29 | M23 |
| T 24 | 0 11 54 | 1° 3'06 | 20°22 | 24°43 | 9°15 | 3°39 | 6°55 | 18°26 | 17°51 | 1°54 | 20°11 | 4°40 | 5°34 | 27°13 | 27°31 | T 24 |
| W25 | 0 15 51 | 2° 2'05 | 4♍ 2 | 25°59 | 10°26 | 4°18 | 7° 5 | 18°33 | 17°50 | 1°54 | 20°10 | 4°31 | 5°31 | 27°19 | 27°33 | W25 |
| T 26 | 0 19 47 | 3° 1'07 | 18° 5 | 27°14 | 11°38 | 4°58 | 7°15 | 18°40 | 17°50 | 1°54 | 20°10 | 4°20 | 5°28 | 27°26 | 27°35 | T 26 |
| F 27 | 0 23 44 | 4° 0'10 | 2♎29 | 28°27 | 12°49 | 5°37 | 7°25 | 18°48 | 17°D50 | 1°55 | 20°10 | 4°11 | 5°25 | 27°33 | 27°37 | F 27 |
| S 28 | 0 27 40 | 4°59'16 | 17° 7 | 29°39 | 14° 0 | 6°17 | 7°35 | 18°55 | 17°50 | 1°55 | 20°10 | 4° 2 | 5°22 | 27°39 | 27°40 | S 28 |
| S 29 | 0 31 37 | 5°58'24 | 1♏52 | 0♏49 | 15°11 | 6°56 | 7°44 | 19° 2 | 17°50 | 1°56 | 20°10 | 3°56 | 5°19 | 27°46 | 27°42 | S 29 |
| M30 | 0 35 33 | 6♎57'34 | 16♏36 | 1♏57 | 16♏22 | 7♎35 | 7♌54 | 19♎ 9 | 17♑50 | 1♑56 | 20♊10 | 3♐53 | 5♐15 | 27♉53 | 27♐44 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n22 | 11s56 | 3s31 | 4n48 | 0n57 | 4s16 | 0n24 | 5n18 | 0n55 | 19n58 | 0n23 | 4s 7 | 2n19 | 22s45 | 0s30 | 22s26 | 1n 2 | 15n14 | 7s54 | 21s27 | 21s29 | 20n 1 | 16s55 | 6n32 |
| M 2 | 8 0 | 16 6 | 2 31 | 4 2 | 0 51 | 4 47 | 0 21 | 5 3 | 0 55 | 19 56 | 0 23 | 4 9 | 2 19 | 22 45 | 0 30 | 22 26 | 1 2 | 15 14 | 7 54 | 21 26 | 21 28 | 20 2 | 16 56 | 6 31 |
| T 3 | 7 38 | 19 18 | 1 22 | 3 16 | 0 44 | 5 18 | 0 18 | 4 47 | 0 54 | 19 53 | 0 23 | 4 12 | 2 19 | 22 45 | 0 30 | 22 26 | 1 2 | 15 14 | 7 54 | 21 26 | 21 28 | 20 3 | 16 56 | 6 31 |
| W 4 | 7 16 | 21 18 | 0 8 | 2 30 | 0 38 | 5 49 | 0 15 | 4 32 | 0 54 | 19 51 | 0 23 | 4 15 | 2 19 | 22 45 | 0 30 | 22 26 | 1 2 | 15 14 | 7 55 | 21 25 | 21 27 | 20 4 | 16 57 | 6 30 |
| T 5 | 6 53 | 21 56 | 1n 6 | 1 44 | 0 31 | 6 20 | 0 12 | 4 16 | 0 53 | 19 48 | 0 23 | 4 17 | 2 18 | 22 45 | 0 30 | 22 26 | 1 2 | 15 13 | 7 55 | 21 25 | 21 27 | 20 4 | 16 57 | 6 30 |
| F 6 | 6 31 | 21 11 | 2 16 | 0 59 | 0 24 | 6 50 | 0 9 | 4 0 | 0 53 | 19 45 | 0 23 | 4 20 | 2 18 | 22 45 | 0 30 | 22 26 | 1 2 | 15 13 | 7 55 | 21 25 | 21 26 | 20 5 | 16 58 | 6 29 |
| S 7 | 6 8 | 19 11 | 3 16 | 0 14 | 0 17 | 7 20 | 0 6 | 3 45 | 0 53 | 19 43 | 0 24 | 4 22 | 2 18 | 22 45 | 0 29 | 22 27 | 1 2 | 15 13 | 7 55 | 21 25 | 21 26 | 20 6 | 16 58 | 6 29 |
| S 8 | 5 46 | 16 6 | 4 5 | 0s31 | 0 10 | 7 51 | 0 3 | 3 29 | 0 52 | 19 40 | 0 24 | 4 25 | 2 18 | 22 45 | 0 29 | 22 27 | 1 2 | 15 13 | 7 55 | 21 24 | 21 25 | 20 7 | 16 59 | 6 28 |
| M 9 | 5 23 | 12 13 | 4 39 | 1 15 | 0 2 | 8 21 | 0s 0 | 3 13 | 0 52 | 19 38 | 0 24 | 4 28 | 2 18 | 22 46 | 0 29 | 22 27 | 1 2 | 15 13 | 7 55 | 21 22 | 21 25 | 20 7 | 16 59 | 6 28 |
| T 10 | 5 0 | 7 46 | 4 58 | 2 0 | 0s 5 | 8 51 | 0 4 | 2 57 | 0 51 | 19 35 | 0 24 | 4 30 | 2 18 | 22 46 | 0 29 | 22 27 | 1 2 | 15 13 | 7 55 | 21 20 | 21 24 | 20 8 | 17 0 | 6 27 |
| W11 | 4 37 | 3 3 | 5 0 | 2 43 | 0 13 | 9 20 | 0 7 | 2 42 | 0 51 | 19 32 | 0 24 | 4 33 | 2 18 | 22 46 | 0 29 | 22 27 | 1 1 | 15 13 | 7 56 | 21 18 | 21 24 | 20 9 | 17 0 | 6 27 |
| T 12 | 4 15 | 1n43 | 4 47 | 3 26 | 0 20 | 9 50 | 0 10 | 2 26 | 0 51 | 19 30 | 0 24 | 4 35 | 2 18 | 22 46 | 0 29 | 22 27 | 1 1 | 15 13 | 7 56 | 21 16 | 21 23 | 20 10 | 17 1 | 6 26 |
| F 13 | 3 52 | 6 19 | 4 20 | 4 9 | 0 28 | 10 19 | 0 14 | 2 10 | 0 50 | 19 27 | 0 24 | 4 38 | 2 18 | 22 46 | 0 29 | 22 27 | 1 1 | 15 13 | 7 56 | 21 14 | 21 22 | 20 10 | 17 1 | 6 26 |
| S 14 | 3 28 | 10 35 | 3 41 | 4 51 | 0 36 | 10 48 | 0 17 | 1 54 | 0 50 | 19 25 | 0 25 | 4 41 | 2 18 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 56 | 21 12 | 21 22 | 20 11 | 17 2 | 6 25 |
| S 15 | 3 5 | 14 20 | 2 53 | 5 33 | 0 43 | 11 17 | 0 20 | 1 38 | 0 50 | 19 22 | 0 25 | 4 43 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 56 | 21 11 | 21 21 | 20 12 | 17 2 | 6 25 |
| M16 | 2 42 | 17 27 | 1 57 | 6 14 | 0 51 | 11 46 | 0 24 | 1 22 | 0 49 | 19 20 | 0 25 | 4 46 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 56 | 21 10 | 21 21 | 20 13 | 17 3 | 6 25 |
| T 17 | 2 19 | 19 47 | 0 57 | 6 54 | 0 59 | 12 14 | 0 27 | 1 7 | 0 49 | 19 17 | 0 25 | 4 49 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 56 | 21 10 | 21 20 | 20 13 | 17 3 | 6 24 |
| W18 | 1 55 | 21 15 | 0s 6 | 7 34 | 1 6 | 12 42 | 0 31 | 0 51 | 0 48 | 19 15 | 0 25 | 4 52 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 56 | 21 9 | 21 20 | 20 14 | 17 4 | 6 24 |
| T 19 | 1 32 | 21 47 | 1 8 | 8 14 | 1 14 | 13 10 | 0 34 | 0 35 | 0 48 | 19 12 | 0 25 | 4 54 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 57 | 21 10 | 21 19 | 20 15 | 17 4 | 6 23 |
| F 20 | 1 9 | 21 20 | 2 9 | 8 52 | 1 22 | 13 38 | 0 38 | 0 19 | 0 47 | 19 10 | 0 25 | 4 57 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 57 | 21 10 | 21 19 | 20 15 | 17 5 | 6 23 |
| S 21 | 0 45 | 19 54 | 3 4 | 9 30 | 1 29 | 14 5 | 0 41 | 0 3 | 0 47 | 19 7 | 0 26 | 5 0 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 12 | 7 57 | 21 9 | 21 18 | 20 16 | 17 5 | 6 22 |
| S 22 | 0 22 | 17 29 | 3 52 | 10 7 | 1 37 | 14 32 | 0 45 | 0s13 | 0 47 | 19 5 | 0 26 | 5 2 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 11 | 7 57 | 21 9 | 21 17 | 20 17 | 17 6 | 6 22 |
| M23 | 0s 2 | 14 10 | 4 30 | 10 44 | 1 44 | 14 59 | 0 48 | 0 29 | 0 46 | 19 2 | 0 26 | 5 5 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 11 | 7 57 | 21 8 | 21 17 | 20 17 | 17 6 | 6 21 |
| T 24 | 0 25 | 10 3 | 4 55 | 11 19 | 1 51 | 15 25 | 0 52 | 0 45 | 0 46 | 19 0 | 0 26 | 5 8 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 11 | 7 57 | 21 7 | 21 16 | 20 18 | 17 7 | 6 21 |
| W25 | 0 49 | 5 19 | 5 4 | 11 54 | 1 59 | 15 51 | 0 55 | 1 1 | 0 45 | 18 57 | 0 26 | 5 11 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 11 | 7 57 | 21 5 | 21 16 | 20 19 | 17 7 | 6 20 |
| T 26 | 1 12 | 0 11 | 4 56 | 12 28 | 2 6 | 16 17 | 0 59 | 1 17 | 0 45 | 18 55 | 0 26 | 5 13 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 11 | 7 57 | 21 3 | 21 15 | 20 19 | 17 8 | 6 20 |
| F 27 | 1 36 | 5s 6 | 4 28 | 13 0 | 2 13 | 16 42 | 1 2 | 1 33 | 0 45 | 18 53 | 0 26 | 5 16 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 11 | 7 58 | 21 1 | 21 15 | 20 20 | 17 8 | 6 19 |
| S 28 | 1 59 | 10 10 | 3 43 | 13 32 | 2 19 | 17 7 | 1 6 | 1 49 | 0 44 | 18 50 | 0 27 | 5 19 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 11 | 7 58 | 21 0 | 21 14 | 20 21 | 17 9 | 6 19 |
| S 29 | 2 23 | 14 41 | 2 43 | 14 3 | 2 26 | 17 31 | 1 9 | 2 5 | 0 44 | 18 48 | 0 27 | 5 22 | 2 17 | 22 46 | 0 29 | 22 27 | 1 1 | 15 10 | 7 58 | 20 58 | 21 14 | 20 21 | 17 9 | 6 18 |
| M30 | 2s46 | 18s17 | 1s31 | 14s33 | 2s32 | 17s55 | 1s12 | 2s21 | 0n43 | 18n46 | 0n27 | 5s24 | 2n16 | 22s46 | 0s29 | 22s27 | 1n 1 | 15n10 | 7s58 | 20s58 | 21s13 | 20n22 | 17s10 | 6n18 |

Julian Day Number = 2326875.5, Delta T = 37.30 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'33, Lahiri = 19°05'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## OCTOBER 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 39 30 | 7♎56'46 | 1♐13 | 3♏ 3 | 17♏33 | 8♎15 | 8♌ 3 | 19♎16 | 17♑51 | 1♑57 | 20°R 9 | 3°D52 | 5♐12 | 27♉59 | 27♐47 | T 1 |
| W 2 | 0 43 26 | 8°55'59 | 15°38 | 4° 7 | 18°44 | 8°54 | 8°13 | 19°23 | 17°51 | 1°58 | 20♊ 9 | 3♐52 | 5° 9 | 28° 6 | 27°49 | W 2 |
| T 3 | 0 47 23 | 9°55'14 | 29°48 | 5° 8 | 19°55 | 9°34 | 8°22 | 19°31 | 17°51 | 1°58 | 20° 9 | 3°53 | 5° 6 | 28°13 | 27°52 | T 3 |
| F 4 | 0 51 20 | 10°54'31 | 13♑43 | 6° 7 | 21° 6 | 10°13 | 8°31 | 19°38 | 17°52 | 1°59 | 20° 9 | 3°R53 | 5° 3 | 28°19 | 27°55 | F 4 |
| S 5 | 0 55 16 | 11°53'50 | 27°22 | 7° 3 | 22°17 | 10°53 | 8°40 | 19°45 | 17°52 | 2° 0 | 20° 8 | 3°52 | 5° 0 | 28°26 | 27°58 | S 5 |
| S 6 | 0 59 13 | 12°53'11 | 10♒47 | 7°56 | 23°27 | 11°33 | 8°49 | 19°52 | 17°52 | 2° 0 | 20° 8 | 3°49 | 4°56 | 28°32 | 28° 0 | S 6 |
| M 7 | 1 3 9 | 13°52'33 | 23°57 | 8°45 | 24°38 | 12°12 | 8°58 | 20° 0 | 17°53 | 2° 1 | 20° 7 | 3°43 | 4°53 | 28°39 | 28° 3 | M 7 |
| T 8 | 1 7 6 | 14°51'57 | 6♓55 | 9°31 | 25°48 | 12°52 | 9° 7 | 20° 7 | 17°53 | 2° 2 | 20° 7 | 3°36 | 4°50 | 28°46 | 28° 6 | T 8 |
| W 9 | 1 11 2 | 15°51'23 | 19°41 | 10°13 | 26°59 | 13°32 | 9°15 | 20°14 | 17°54 | 2° 3 | 20° 7 | 3°27 | 4°47 | 28°52 | 28° 9 | W 9 |
| T 10 | 1 14 59 | 16°50'51 | 2♈14 | 10°50 | 28° 9 | 14°11 | 9°23 | 20°21 | 17°55 | 2° 3 | 20° 6 | 3°18 | 4°44 | 28°59 | 28°13 | T 10 |
| F 11 | 1 18 55 | 17°50'20 | 14°35 | 11°23 | 29°20 | 14°51 | 9°32 | 20°29 | 17°55 | 2° 4 | 20° 6 | 3°10 | 4°40 | 29° 6 | 28°16 | F 11 |
| S 12 | 1 22 52 | 18°49'52 | 26°46 | 11°50 | 0♐30 | 15°31 | 9°40 | 20°36 | 17°56 | 2° 5 | 20° 5 | 3° 3 | 4°37 | 29°12 | 28°19 | S 12 |
| S 13 | 1 26 48 | 19°49'26 | 8♉47 | 12°11 | 1°40 | 16°11 | 9°48 | 20°43 | 17°57 | 2° 6 | 20° 5 | 2°58 | 4°34 | 29°19 | 28°22 | S 13 |
| M14 | 1 30 45 | 20°49'02 | 20°41 | 12°26 | 2°50 | 16°51 | 9°56 | 20°51 | 17°58 | 2° 7 | 20° 4 | 2°56 | 4°31 | 29°26 | 28°26 | M14 |
| T 15 | 1 34 42 | 21°48'40 | 2♊29 | 12°34 | 4° 0 | 17°31 | 10° 4 | 20°58 | 17°58 | 2° 8 | 20° 4 | 2°D55 | 4°28 | 29°32 | 28°29 | T 15 |
| W16 | 1 38 38 | 22°48'21 | 14°15 | 12°R34 | 5°10 | 18°11 | 10°11 | 21° 5 | 17°59 | 2° 9 | 20° 3 | 2°55 | 4°25 | 29°39 | 28°33 | W16 |
| T 17 | 1 42 35 | 23°48'04 | 26° 3 | 12°26 | 6°20 | 18°51 | 10°19 | 21°12 | 18° 0 | 2°10 | 20° 3 | 2°57 | 4°21 | 29°46 | 28°37 | T 17 |
| F 18 | 1 46 31 | 24°47'49 | 7♋58 | 12°10 | 7°30 | 19°31 | 10°26 | 21°20 | 18° 1 | 2°11 | 20° 2 | 2°58 | 4°18 | 29°52 | 28°40 | F 18 |
| S 19 | 1 50 28 | 25°47'36 | 20° 5 | 11°45 | 8°40 | 20°11 | 10°34 | 21°27 | 18° 3 | 2°13 | 20° 2 | 3° 0 | 4°15 | 29°59 | 28°44 | S 19 |
| S 20 | 1 54 24 | 26°47'25 | 2♌28 | 11°11 | 9°49 | 20°51 | 10°41 | 21°34 | 18° 4 | 2°14 | 20° 1 | 3°R 0 | 4°12 | 0♊ 6 | 28°48 | S 20 |
| M21 | 1 58 21 | 27°47'17 | 15°13 | 10°28 | 10°59 | 21°31 | 10°48 | 21°42 | 18° 5 | 2°15 | 20° 0 | 2°58 | 4° 9 | 0°12 | 28°52 | M21 |
| T 22 | 2 2 17 | 28°47'11 | 28°22 | 9°36 | 12° 8 | 22°11 | 10°55 | 21°49 | 18° 6 | 2°16 | 20° 0 | 2°55 | 4° 5 | 0°19 | 28°56 | T 22 |
| W23 | 2 6 14 | 29°47'07 | 12♍ 0 | 8°37 | 13°18 | 22°52 | 11° 1 | 21°56 | 18° 7 | 2°17 | 19°59 | 2°51 | 4° 2 | 0°25 | 29° 0 | W23 |
| T 24 | 2 10 11 | 0♏47'05 | 26° 5 | 7°30 | 14°27 | 23°32 | 11° 8 | 22° 3 | 18° 9 | 2°19 | 19°58 | 2°46 | 3°59 | 0°32 | 29° 4 | T 24 |
| F 25 | 2 14 7 | 1°47'05 | 10♎36 | 6°17 | 15°36 | 24°12 | 11°14 | 22°11 | 18°10 | 2°20 | 19°58 | 2°41 | 3°56 | 0°39 | 29° 8 | F 25 |
| S 26 | 2 18 4 | 2°47'07 | 25°27 | 5° 1 | 16°45 | 24°53 | 11°20 | 22°18 | 18°12 | 2°21 | 19°57 | 2°37 | 3°53 | 0°45 | 29°12 | S 26 |
| S 27 | 2 22 0 | 3°47'12 | 10♏30 | 3°43 | 17°54 | 25°33 | 11°26 | 22°25 | 18°13 | 2°23 | 19°56 | 2°34 | 3°50 | 0°52 | 29°17 | S 27 |
| M28 | 2 25 57 | 4°47'18 | 25°35 | 2°26 | 19° 3 | 26°13 | 11°32 | 22°32 | 18°15 | 2°24 | 19°55 | 2°D33 | 3°46 | 0°59 | 29°21 | M28 |
| T 29 | 2 29 53 | 5°47'26 | 10♐35 | 1°13 | 20°12 | 26°54 | 11°38 | 22°39 | 18°16 | 2°26 | 19°54 | 2°33 | 3°43 | 1° 5 | 29°25 | T 29 |
| W30 | 2 33 50 | 6°47'35 | 25°21 | 0° 5 | 21°21 | 27°34 | 11°44 | 22°47 | 18°18 | 2°27 | 19°54 | 2°34 | 3°40 | 1°12 | 29°30 | W30 |
| T 31 | 2 37 46 | 7♏47'47 | 9♑47 | 29♎ 4 | 22♐29 | 28♎15 | 11♌49 | 22♎54 | 18♑19 | 2♑29 | 19♊53 | 2♐35 | 3♐37 | 1♊19 | 29♐34 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s 9 | 20s40 | 0s14 | 15s 1 | 2s38 | 18s19 | 1s16 | 2s37 | 0n43 | 18n43 | 0n27 | 5s27 | 2n16 | 22s46 | 0s29 | 22s28 | 1n 1 | 15n10 | 7s58 | 20s58 | 21s12 | 20n23 | 17s10 | 6n17 |
| W 2 | 3 33 | 21 40 | 1n 3 | 15 29 | 2 44 | 18 42 | 1 19 | 2 53 | 0 42 | 18 41 | 0 27 | 5 30 | 2 16 | 22 46 | 0 29 | 22 28 | 1 1 | 15 10 | 7 58 | 20 58 | 21 12 | 20 23 | 17 11 | 6 17 |
| T 3 | 3 56 | 21 14 | 2 15 | 15 55 | 2 49 | 19 5 | 1 23 | 3 9 | 0 42 | 18 39 | 0 27 | 5 33 | 2 16 | 22 46 | 0 29 | 22 28 | 1 1 | 15 10 | 7 58 | 20 58 | 21 11 | 20 24 | 17 11 | 6 17 |
| F 4 | 4 19 | 19 30 | 3 18 | 16 19 | 2 54 | 19 27 | 1 26 | 3 25 | 0 42 | 18 37 | 0 28 | 5 35 | 2 16 | 22 46 | 0 29 | 22 28 | 1 0 | 15 10 | 7 58 | 20 58 | 21 11 | 20 25 | 17 12 | 6 16 |
| S 5 | 4 43 | 16 40 | 4 8 | 16 42 | 2 59 | 19 49 | 1 30 | 3 41 | 0 41 | 18 34 | 0 28 | 5 38 | 2 16 | 22 46 | 0 29 | 22 28 | 1 0 | 15 10 | 7 59 | 20 58 | 21 10 | 20 25 | 17 12 | 6 16 |
| S 6 | 5 6 | 13 1 | 4 43 | 17 4 | 3 3 | 20 10 | 1 33 | 3 57 | 0 41 | 18 32 | 0 28 | 5 41 | 2 16 | 22 46 | 0 29 | 22 28 | 1 0 | 15 9 | 7 59 | 20 57 | 21 10 | 20 26 | 17 13 | 6 15 |
| M 7 | 5 29 | 8 47 | 5 3 | 17 23 | 3 7 | 20 31 | 1 36 | 4 13 | 0 40 | 18 30 | 0 28 | 5 44 | 2 16 | 22 46 | 0 29 | 22 28 | 1 0 | 15 9 | 7 59 | 20 56 | 21 9 | 20 27 | 17 13 | 6 15 |
| T 8 | 5 52 | 4 14 | 5 7 | 17 41 | 3 10 | 20 51 | 1 40 | 4 29 | 0 40 | 18 28 | 0 28 | 5 46 | 2 16 | 22 46 | 0 29 | 22 28 | 1 0 | 15 9 | 7 59 | 20 55 | 21 8 | 20 27 | 17 14 | 6 14 |
| W 9 | 6 15 | 0n26 | 4 55 | 17 57 | 3 12 | 21 11 | 1 43 | 4 45 | 0 39 | 18 26 | 0 28 | 5 49 | 2 16 | 22 46 | 0 29 | 22 28 | 1 0 | 15 9 | 7 59 | 20 53 | 21 8 | 20 28 | 17 14 | 6 14 |
| T 10 | 6 38 | 5 1 | 4 30 | 18 10 | 3 14 | 21 30 | 1 46 | 5 1 | 0 39 | 18 24 | 0 29 | 5 52 | 2 16 | 22 46 | 0 29 | 22 28 | 1 0 | 15 9 | 7 59 | 20 51 | 21 7 | 20 28 | 17 15 | 6 13 |
| F 11 | 7 1 | 9 19 | 3 52 | 18 22 | 3 15 | 21 49 | 1 49 | 5 16 | 0 38 | 18 22 | 0 29 | 5 55 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 9 | 7 59 | 20 50 | 21 7 | 20 29 | 17 15 | 6 13 |
| S 12 | 7 23 | 13 11 | 3 3 | 18 30 | 3 15 | 22 7 | 1 52 | 5 32 | 0 38 | 18 20 | 0 29 | 5 57 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 9 | 7 59 | 20 48 | 21 6 | 20 30 | 17 16 | 6 13 |
| S 13 | 7 46 | 16 28 | 2 7 | 18 36 | 3 15 | 22 25 | 1 55 | 5 48 | 0 37 | 18 18 | 0 29 | 6 0 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 8 | 8 0 | 20 47 | 21 5 | 20 30 | 17 16 | 6 12 |
| M14 | 8 8 | 19 1 | 1 6 | 18 39 | 3 13 | 22 42 | 1 59 | 6 4 | 0 37 | 18 16 | 0 29 | 6 3 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 8 | 8 0 | 20 47 | 21 5 | 20 31 | 17 17 | 6 12 |
| T 15 | 8 31 | 20 44 | 0 2 | 18 39 | 3 10 | 22 59 | 2 2 | 6 19 | 0 37 | 18 14 | 0 29 | 6 6 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 8 | 8 0 | 20 47 | 21 4 | 20 31 | 17 17 | 6 11 |
| W16 | 8 53 | 21 32 | 1s 1 | 18 35 | 3 6 | 23 15 | 2 5 | 6 35 | 0 36 | 18 12 | 0 30 | 6 8 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 8 | 8 0 | 20 47 | 21 4 | 20 32 | 17 18 | 6 11 |
| T 17 | 9 15 | 21 23 | 2 3 | 18 27 | 3 0 | 23 30 | 2 7 | 6 51 | 0 36 | 18 10 | 0 30 | 6 11 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 8 | 8 0 | 20 47 | 21 3 | 20 32 | 17 18 | 6 11 |
| F 18 | 9 37 | 20 15 | 3 0 | 18 16 | 2 53 | 23 45 | 2 10 | 7 6 | 0 35 | 18 8 | 0 30 | 6 14 | 2 16 | 22 45 | 0 29 | 22 28 | 1 0 | 15 8 | 8 0 | 20 47 | 21 3 | 20 33 | 17 18 | 6 10 |
| S 19 | 9 59 | 18 12 | 3 49 | 18 0 | 2 44 | 23 59 | 2 13 | 7 22 | 0 35 | 18 6 | 0 30 | 6 16 | 2 16 | 22 44 | 0 29 | 22 28 | 1 0 | 15 8 | 8 0 | 20 48 | 21 2 | 20 33 | 17 19 | 6 10 |
| S 20 | 10 21 | 15 16 | 4 30 | 17 39 | 2 34 | 24 12 | 2 16 | 7 38 | 0 34 | 18 5 | 0 30 | 6 19 | 2 16 | 22 44 | 0 29 | 22 28 | 1 0 | 15 7 | 8 0 | 20 48 | 21 1 | 20 34 | 17 19 | 6 9 |
| M21 | 10 42 | 11 33 | 4 58 | 17 14 | 2 22 | 24 25 | 2 19 | 7 53 | 0 34 | 18 3 | 0 31 | 6 22 | 2 16 | 22 44 | 0 29 | 22 28 | 1 0 | 15 7 | 8 0 | 20 47 | 21 1 | 20 35 | 17 20 | 6 9 |
| T 22 | 11 4 | 7 11 | 5 12 | 16 44 | 2 8 | 24 37 | 2 21 | 8 8 | 0 33 | 18 1 | 0 31 | 6 24 | 2 16 | 22 44 | 0 29 | 22 28 | 1 0 | 15 7 | 8 0 | 20 47 | 21 0 | 20 35 | 17 20 | 6 9 |
| W23 | 11 25 | 2 19 | 5 9 | 16 10 | 1 52 | 24 49 | 2 24 | 8 24 | 0 33 | 18 0 | 0 31 | 6 27 | 2 16 | 22 44 | 0 29 | 22 28 | 1 0 | 15 7 | 8 1 | 20 46 | 21 0 | 20 36 | 17 20 | 6 8 |
| T 24 | 11 46 | 2s50 | 4 47 | 15 32 | 1 35 | 25 0 | 2 26 | 8 39 | 0 32 | 17 58 | 0 31 | 6 30 | 2 16 | 22 43 | 0 29 | 22 28 | 1 0 | 15 7 | 8 1 | 20 45 | 20 59 | 20 36 | 17 21 | 6 8 |
| F 25 | 12 7 | 8 0 | 4 7 | 14 50 | 1 16 | 25 10 | 2 29 | 8 55 | 0 32 | 17 56 | 0 31 | 6 32 | 2 16 | 22 43 | 0 29 | 22 28 | 1 0 | 15 7 | 8 1 | 20 44 | 20 58 | 20 37 | 17 21 | 6 8 |
| S 26 | 12 28 | 12 48 | 3 10 | 14 6 | 0 56 | 25 19 | 2 31 | 9 10 | 0 31 | 17 55 | 0 32 | 6 35 | 2 16 | 22 43 | 0 29 | 22 28 | 1 0 | 15 7 | 8 1 | 20 43 | 20 58 | 20 37 | 17 22 | 6 7 |
| S 27 | 12 48 | 16 52 | 1 58 | 13 21 | 0 36 | 25 28 | 2 33 | 9 25 | 0 31 | 17 53 | 0 32 | 6 38 | 2 17 | 22 43 | 0 29 | 22 28 | 1 0 | 15 6 | 8 1 | 20 43 | 20 57 | 20 38 | 17 22 | 6 7 |
| M28 | 13 8 | 19 49 | 0 38 | 12 35 | 0 15 | 25 37 | 2 35 | 9 40 | 0 30 | 17 52 | 0 32 | 6 40 | 2 17 | 22 43 | 0 29 | 22 28 | 0 59 | 15 6 | 8 1 | 20 42 | 20 57 | 20 38 | 17 22 | 6 7 |
| T 29 | 13 29 | 21 21 | 0n44 | 11 50 | 0n 5 | 25 44 | 2 37 | 9 55 | 0 30 | 17 50 | 0 32 | 6 43 | 2 17 | 22 42 | 0 29 | 22 28 | 0 59 | 15 6 | 8 1 | 20 42 | 20 56 | 20 39 | 17 23 | 6 6 |
| W30 | 13 48 | 21 22 | 2 2 | 11 8 | 0 25 | 25 51 | 2 39 | 10 10 | 0 29 | 17 49 | 0 32 | 6 45 | 2 17 | 22 42 | 0 29 | 22 28 | 0 59 | 15 6 | 8 1 | 20 43 | 20 55 | 20 39 | 17 23 | 6 6 |
| T 31 | 14s 8 | 19s57 | 3n11 | 10s29 | 0n44 | 25s57 | 2s41 | 10s25 | 0n29 | 17n48 | 0n33 | 6s48 | 2n17 | 22s42 | 0s29 | 22s28 | 0n59 | 15n 6 | 8s 1 | 20s43 | 20s55 | 20n40 | 17s23 | 6n 6 |

Julian Day Number = 2326905.5, Delta T = 37.24 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'37, Lahiri = 19°05'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## NOVEMBER 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 41 43 | 8♏47'59 | 23♑52 | 28°R13 | 23♐37 | 28♎55 | 11♌54 | 23♎ 1 | 18♑21 | 2♑30 | 19°R52 | 2♐37 | 3♐34 | 1♊25 | 29♐39 | F 1 |
| S 2 | 2 45 40 | 9°48'14 | 7♒35 | 27♎33 | 24°46 | 29°36 | 11°59 | 23° 8 | 18°23 | 2°32 | 19♊51 | 2°R37 | 3°31 | 1°32 | 29°44 | S 2 |
| S 3 | 2 49 36 | 10°48'29 | 20°56 | 27° 4 | 25°54 | 0♏17 | 12° 4 | 23°15 | 18°25 | 2°33 | 19°50 | 2°37 | 3°27 | 1°39 | 29°48 | S 3 |
| M 4 | 2 53 33 | 11°48'46 | 3♓57 | 26°47 | 27° 2 | 0°57 | 12° 9 | 23°22 | 18°27 | 2°35 | 19°49 | 2°36 | 3°24 | 1°45 | 29°53 | M 4 |
| T 5 | 2 57 29 | 12°49'05 | 16°41 | 26°D41 | 28°10 | 1°38 | 12°14 | 23°29 | 18°28 | 2°36 | 19°49 | 2°33 | 3°21 | 1°52 | 29°58 | T 5 |
| W 6 | 3 1 26 | 13°49'25 | 29°11 | 26°46 | 29°17 | 2°19 | 12°18 | 23°36 | 18°30 | 2°38 | 19°48 | 2°31 | 3°18 | 1°58 | 0♑ 3 | W 6 |
| T 7 | 3 5 22 | 14°49'46 | 11♈28 | 27° 2 | 0♑25 | 2°59 | 12°22 | 23°43 | 18°32 | 2°40 | 19°47 | 2°28 | 3°15 | 2° 5 | 0° 8 | T 7 |
| F 8 | 3 9 19 | 15°50'09 | 23°35 | 27°28 | 1°32 | 3°40 | 12°26 | 23°50 | 18°34 | 2°41 | 19°46 | 2°25 | 3°11 | 2°12 | 0°13 | F 8 |
| S 9 | 3 13 15 | 16°50'34 | 5♉34 | 28° 3 | 2°39 | 4°21 | 12°30 | 23°57 | 18°36 | 2°43 | 19°45 | 2°23 | 3° 8 | 2°18 | 0°18 | S 9 |
| S 10 | 3 17 12 | 17°51'00 | 17°28 | 28°46 | 3°46 | 5° 2 | 12°34 | 24° 4 | 18°39 | 2°45 | 19°44 | 2°21 | 3° 5 | 2°25 | 0°23 | S 10 |
| M11 | 3 21 9 | 18°51'28 | 29°17 | 29°36 | 4°53 | 5°43 | 12°38 | 24°11 | 18°41 | 2°46 | 19°43 | 2°D21 | 3° 2 | 2°32 | 0°28 | M11 |
| T 12 | 3 25 5 | 19°51'58 | 11♊ 4 | 0♏32 | 6° 0 | 6°24 | 12°41 | 24°18 | 18°43 | 2°48 | 19°42 | 2°21 | 2°59 | 2°38 | 0°33 | T 12 |
| W13 | 3 29 2 | 20°52'29 | 22°52 | 1°34 | 7° 6 | 7° 5 | 12°44 | 24°24 | 18°45 | 2°50 | 19°41 | 2°22 | 2°56 | 2°45 | 0°38 | W13 |
| T 14 | 3 32 58 | 21°53'02 | 4♋43 | 2°41 | 8°13 | 7°46 | 12°47 | 24°31 | 18°47 | 2°52 | 19°40 | 2°23 | 2°52 | 2°52 | 0°43 | T 14 |
| F 15 | 3 36 55 | 22°53'36 | 16°40 | 3°52 | 9°19 | 8°27 | 12°50 | 24°38 | 18°50 | 2°54 | 19°39 | 2°24 | 2°49 | 2°58 | 0°48 | F 15 |
| S 16 | 3 40 51 | 23°54'13 | 28°48 | 5° 6 | 10°25 | 9° 8 | 12°53 | 24°45 | 18°52 | 2°55 | 19°38 | 2°25 | 2°46 | 3° 5 | 0°54 | S 16 |
| S 17 | 3 44 48 | 24°54'51 | 11♌10 | 6°23 | 11°30 | 9°49 | 12°55 | 24°51 | 18°54 | 2°57 | 19°37 | 2°25 | 2°43 | 3°12 | 0°59 | S 17 |
| M18 | 3 48 44 | 25°55'30 | 23°51 | 7°43 | 12°36 | 10°31 | 12°57 | 24°58 | 18°57 | 2°59 | 19°36 | 2°R25 | 2°40 | 3°18 | 1° 4 | M18 |
| T 19 | 3 52 41 | 26°56'11 | 6♍53 | 9° 5 | 13°41 | 11°12 | 12°59 | 25° 4 | 18°59 | 3° 1 | 19°35 | 2°25 | 2°37 | 3°25 | 1°10 | T 19 |
| W20 | 3 56 38 | 27°56'54 | 20°21 | 10°29 | 14°46 | 11°53 | 13° 1 | 25°11 | 19° 2 | 3° 3 | 19°34 | 2°25 | 2°33 | 3°31 | 1°15 | W20 |
| T 21 | 4 0 34 | 28°57'39 | 4♎16 | 11°55 | 15°50 | 12°34 | 13° 3 | 25°17 | 19° 4 | 3° 5 | 19°32 | 2°25 | 2°30 | 3°38 | 1°21 | T 21 |
| F 22 | 4 4 31 | 29°58'25 | 18°38 | 13°22 | 16°55 | 13°16 | 13° 5 | 25°24 | 19° 7 | 3° 7 | 19°31 | 2°24 | 2°27 | 3°45 | 1°26 | F 22 |
| S 23 | 4 8 27 | 0♐59'13 | 3♏23 | 14°50 | 17°59 | 13°57 | 13° 6 | 25°30 | 19°10 | 3° 9 | 19°30 | 2°24 | 2°24 | 3°51 | 1°32 | S 23 |
| S 24 | 4 12 24 | 2° 0'02 | 18°27 | 16°19 | 19° 3 | 14°39 | 13° 7 | 25°37 | 19°12 | 3°11 | 19°29 | 2°D24 | 2°21 | 3°58 | 1°38 | S 24 |
| M25 | 4 16 20 | 3° 0'52 | 3♐40 | 17°48 | 20° 7 | 15°20 | 13° 8 | 25°43 | 19°15 | 3°13 | 19°28 | 2°R24 | 2°17 | 4° 5 | 1°43 | M25 |
| T 26 | 4 20 17 | 4° 1'44 | 18°53 | 19°19 | 21°10 | 16° 2 | 13° 9 | 25°49 | 19°18 | 3°15 | 19°27 | 2°24 | 2°14 | 4°11 | 1°49 | T 26 |
| W27 | 4 24 13 | 5° 2'37 | 3♑56 | 20°49 | 22°13 | 16°43 | 13° 9 | 25°55 | 19°20 | 3°17 | 19°26 | 2°24 | 2°11 | 4°18 | 1°55 | W27 |
| T 28 | 4 28 10 | 6° 3'31 | 18°41 | 22°20 | 23°16 | 17°25 | 13° 9 | 26° 2 | 19°23 | 3°19 | 19°25 | 2°24 | 2° 8 | 4°25 | 2° 0 | T 28 |
| F 29 | 4 32 7 | 7° 4'26 | 3♒ 2 | 23°52 | 24°18 | 18° 6 | 13°R 9 | 26° 8 | 19°26 | 3°21 | 19°24 | 2°23 | 2° 5 | 4°31 | 2° 6 | F 29 |
| S 30 | 4 36 3 | 8♐ 5'21 | 16♒57 | 25♏24 | 25♑20 | 18♏48 | 13♌ 9 | 26♎14 | 19♑29 | 3♑23 | 19♊22 | 2♐23 | 2♐ 2 | 4♊38 | 2♑12 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14s28 | 17s19 | 4n 6 | 9s54 | 1n 2 | 26s 3 | 2s43 | 10s40 | 0n28 | 17n46 | 0n33 | 6s51 | 2n17 | 22s42 | 0s29 | 22s28 | 0n59 | 15n 6 | 8s 1 | 20s43 | 20s54 | 20n40 | 17s24 | 6n 5 |
| S 2 | 14 47 | 13 48 | 4 46 | 9 25 | 1 18 | 26 7 | 2 45 | 10 55 | 0 28 | 17 45 | 0 33 | 6 53 | 2 17 | 22 41 | 0 29 | 22 28 | 0 59 | 15 6 | 8 1 | 20 43 | 20 54 | 20 41 | 17 24 | 6 5 |
| S 3 | 15 6 | 9 39 | 5 9 | 9 1 | 1 32 | 26 11 | 2 46 | 11 10 | 0 27 | 17 44 | 0 33 | 6 56 | 2 17 | 22 41 | 0 29 | 22 28 | 0 59 | 15 5 | 8 1 | 20 43 | 20 53 | 20 41 | 17 24 | 6 5 |
| M 4 | 15 24 | 5 10 | 5 16 | 8 44 | 1 44 | 26 15 | 2 48 | 11 25 | 0 27 | 17 43 | 0 33 | 6 58 | 2 17 | 22 41 | 0 28 | 22 28 | 0 59 | 15 5 | 8 2 | 20 43 | 20 52 | 20 42 | 17 25 | 6 4 |
| T 5 | 15 43 | 0 34 | 5 6 | 8 32 | 1 54 | 26 18 | 2 49 | 11 39 | 0 26 | 17 42 | 0 34 | 7 1 | 2 17 | 22 41 | 0 28 | 22 28 | 0 59 | 15 5 | 8 2 | 20 43 | 20 52 | 20 42 | 17 25 | 6 4 |
| W 6 | 16 1 | 3n59 | 4 42 | 8 26 | 2 3 | 26 19 | 2 51 | 11 54 | 0 26 | 17 41 | 0 34 | 7 3 | 2 17 | 22 40 | 0 28 | 22 28 | 0 59 | 15 5 | 8 2 | 20 42 | 20 51 | 20 43 | 17 25 | 6 4 |
| T 7 | 16 19 | 8 19 | 4 6 | 8 25 | 2 10 | 26 21 | 2 52 | 12 8 | 0 25 | 17 40 | 0 34 | 7 6 | 2 17 | 22 40 | 0 28 | 22 28 | 0 59 | 15 5 | 8 2 | 20 41 | 20 51 | 20 43 | 17 26 | 6 3 |
| F 8 | 16 37 | 12 15 | 3 19 | 8 30 | 2 15 | 26 21 | 2 53 | 12 23 | 0 25 | 17 39 | 0 34 | 7 8 | 2 17 | 22 40 | 0 28 | 22 28 | 0 59 | 15 5 | 8 2 | 20 41 | 20 50 | 20 44 | 17 26 | 6 3 |
| S 9 | 16 54 | 15 39 | 2 23 | 8 39 | 2 18 | 26 21 | 2 54 | 12 37 | 0 24 | 17 38 | 0 34 | 7 11 | 2 17 | 22 39 | 0 28 | 22 28 | 0 59 | 15 5 | 8 2 | 20 40 | 20 49 | 20 44 | 17 26 | 6 3 |
| S 10 | 17 11 | 18 23 | 1 22 | 8 52 | 2 20 | 26 20 | 2 55 | 12 51 | 0 24 | 17 37 | 0 35 | 7 13 | 2 17 | 22 39 | 0 28 | 22 28 | 0 59 | 15 5 | 8 2 | 20 40 | 20 49 | 20 44 | 17 26 | 6 3 |
| M11 | 17 28 | 20 19 | 0 17 | 9 9 | 2 21 | 26 19 | 2 56 | 13 5 | 0 23 | 17 36 | 0 35 | 7 16 | 2 18 | 22 39 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 40 | 20 48 | 20 45 | 17 27 | 6 2 |
| T 12 | 17 44 | 21 21 | 0s48 | 9 29 | 2 21 | 26 17 | 2 56 | 13 19 | 0 23 | 17 36 | 0 35 | 7 18 | 2 18 | 22 38 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 40 | 20 48 | 20 45 | 17 27 | 6 2 |
| W13 | 18 0 | 21 26 | 1 52 | 9 51 | 2 20 | 26 14 | 2 57 | 13 33 | 0 22 | 17 35 | 0 35 | 7 20 | 2 18 | 22 38 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 40 | 20 47 | 20 46 | 17 27 | 6 2 |
| T 14 | 18 16 | 20 34 | 2 50 | 10 16 | 2 18 | 26 10 | 2 57 | 13 47 | 0 21 | 17 34 | 0 35 | 7 23 | 2 18 | 22 38 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 40 | 20 46 | 20 46 | 17 27 | 6 2 |
| F 15 | 18 32 | 18 46 | 3 42 | 10 43 | 2 15 | 26 6 | 2 57 | 14 1 | 0 21 | 17 34 | 0 36 | 7 25 | 2 18 | 22 37 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 41 | 20 46 | 20 47 | 17 27 | 6 1 |
| S 16 | 18 47 | 16 7 | 4 25 | 11 11 | 2 11 | 26 1 | 2 57 | 14 15 | 0 20 | 17 33 | 0 36 | 7 28 | 2 18 | 22 37 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 41 | 20 45 | 20 47 | 17 28 | 6 1 |
| S 17 | 19 2 | 12 42 | 4 57 | 11 40 | 2 7 | 25 56 | 2 57 | 14 28 | 0 20 | 17 33 | 0 36 | 7 30 | 2 18 | 22 37 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 41 | 20 44 | 20 47 | 17 28 | 6 1 |
| M18 | 19 16 | 8 39 | 5 15 | 12 11 | 2 2 | 25 50 | 2 57 | 14 42 | 0 19 | 17 32 | 0 36 | 7 32 | 2 18 | 22 36 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 41 | 20 44 | 20 48 | 17 28 | 6 1 |
| T 19 | 19 31 | 4 5 | 5 17 | 12 42 | 1 57 | 25 43 | 2 57 | 14 55 | 0 19 | 17 32 | 0 37 | 7 34 | 2 18 | 22 36 | 0 28 | 22 28 | 0 59 | 15 4 | 8 2 | 20 41 | 20 43 | 20 48 | 17 28 | 6 1 |
| W20 | 19 44 | 0s49 | 5 3 | 13 14 | 1 52 | 25 35 | 2 57 | 15 8 | 0 18 | 17 31 | 0 37 | 7 37 | 2 19 | 22 36 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 43 | 20 49 | 17 28 | 6 0 |
| T 21 | 19 58 | 5 50 | 4 30 | 13 46 | 1 46 | 25 27 | 2 56 | 15 22 | 0 18 | 17 31 | 0 37 | 7 39 | 2 19 | 22 35 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 42 | 20 49 | 17 28 | 6 0 |
| F 22 | 20 11 | 10 43 | 3 40 | 14 18 | 1 39 | 25 18 | 2 55 | 15 35 | 0 17 | 17 31 | 0 37 | 7 41 | 2 19 | 22 35 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 41 | 20 49 | 17 29 | 6 0 |
| S 23 | 20 24 | 15 5 | 2 35 | 14 50 | 1 33 | 25 9 | 2 54 | 15 48 | 0 16 | 17 31 | 0 37 | 7 43 | 2 19 | 22 35 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 41 | 20 50 | 17 29 | 6 0 |
| S 24 | 20 36 | 18 35 | 1 17 | 15 22 | 1 26 | 24 59 | 2 53 | 16 0 | 0 16 | 17 31 | 0 38 | 7 46 | 2 19 | 22 34 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 40 | 20 50 | 17 29 | 6 0 |
| M25 | 20 48 | 20 48 | 0n 7 | 15 54 | 1 20 | 24 48 | 2 52 | 16 13 | 0 15 | 17 31 | 0 38 | 7 48 | 2 19 | 22 34 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 39 | 20 51 | 17 29 | 5 59 |
| T 26 | 20 59 | 21 31 | 1 30 | 16 25 | 1 13 | 24 37 | 2 51 | 16 26 | 0 15 | 17 31 | 0 38 | 7 50 | 2 19 | 22 33 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 39 | 20 51 | 17 29 | 5 59 |
| W27 | 21 11 | 20 39 | 2 47 | 16 56 | 1 6 | 24 26 | 2 49 | 16 38 | 0 14 | 17 31 | 0 38 | 7 52 | 2 19 | 22 33 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 38 | 20 51 | 17 29 | 5 59 |
| T 28 | 21 21 | 18 23 | 3 50 | 17 26 | 0 59 | 24 13 | 2 47 | 16 51 | 0 14 | 17 31 | 0 39 | 7 54 | 2 20 | 22 33 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 38 | 20 52 | 17 29 | 5 59 |
| F 29 | 21 32 | 15 1 | 4 37 | 17 56 | 0 52 | 24 1 | 2 46 | 17 3 | 0 13 | 17 31 | 0 39 | 7 56 | 2 20 | 22 32 | 0 28 | 22 28 | 0 59 | 15 3 | 8 2 | 20 41 | 20 37 | 20 52 | 17 29 | 5 59 |
| S 30 | 21s42 | 10s55 | 5n 7 | 18s26 | 0n44 | 23s47 | 2s44 | 17s15 | 0n12 | 17n31 | 0n39 | 7s58 | 2n20 | 22s32 | 0s28 | 22s28 | 0n58 | 15n 3 | 8s 2 | 20s40 | 20s36 | 20n52 | 17s29 | 5n59 |

Julian Day Number = 2326936.5, Delta T = 37.18 sec
Ecliptic obliquity = 23°28'57, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'42, Lahiri = 19°05'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1658
# geocentric

## DECEMBER 1658 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 40 0 | 9♐ 6'17 | 0♓24 | 26♏56 | 26♑22 | 19♏30 | 13°R 9 | 26♎20 | 19♑32 | 3♑25 | 19°R21 | 2°R22 | 1♐58 | 4♊45 | 2♑18 | S 1 |
| M 2 | 4 43 56 | 10° 7'14 | 13°26 | 28°28 | 27°23 | 20°12 | 13♌ 9 | 26°26 | 19°35 | 3°27 | 19♊20 | 2°D22 | 1°55 | 4°51 | 2°23 | M 2 |
| T 3 | 4 47 53 | 11° 8'12 | 26° 7 | 0♐ 1 | 28°24 | 20°53 | 13° 8 | 26°32 | 19°38 | 3°30 | 19°19 | 2♐22 | 1°52 | 4°58 | 2°29 | T 3 |
| W 4 | 4 51 49 | 12° 9'10 | 8♈29 | 1°33 | 29°25 | 21°35 | 13° 7 | 26°38 | 19°41 | 3°32 | 19°18 | 2°23 | 1°49 | 5° 5 | 2°35 | W 4 |
| T 5 | 4 55 46 | 13°10'09 | 20°37 | 3° 6 | 0♒25 | 22°17 | 13° 6 | 26°43 | 19°44 | 3°34 | 19°17 | 2°24 | 1°46 | 5°11 | 2°41 | T 5 |
| F 6 | 4 59 42 | 14°11'08 | 2♉35 | 4°39 | 1°25 | 22°59 | 13° 5 | 26°49 | 19°47 | 3°36 | 19°15 | 2°25 | 1°43 | 5°18 | 2°47 | F 6 |
| S 7 | 5 3 39 | 15°12'08 | 14°26 | 6°12 | 2°24 | 23°41 | 13° 3 | 26°55 | 19°50 | 3°38 | 19°14 | 2°26 | 1°39 | 5°24 | 2°53 | S 7 |
| S 8 | 5 7 36 | 16°13'09 | 26°14 | 7°45 | 3°23 | 24°23 | 13° 2 | 27° 0 | 19°53 | 3°40 | 19°13 | 2°27 | 1°36 | 5°31 | 2°59 | S 8 |
| M 9 | 5 11 32 | 17°14'11 | 8♊ 1 | 9°18 | 4°21 | 25° 5 | 13° 0 | 27° 6 | 19°56 | 3°43 | 19°12 | 2°R27 | 1°33 | 5°38 | 3° 5 | M 9 |
| T 10 | 5 15 29 | 18°15'13 | 19°51 | 10°51 | 5°19 | 25°47 | 12°58 | 27°11 | 19°59 | 3°45 | 19°11 | 2°26 | 1°30 | 5°44 | 3°11 | T 10 |
| W11 | 5 19 25 | 19°16'16 | 1♋44 | 12°25 | 6°16 | 26°29 | 12°56 | 27°17 | 20° 2 | 3°47 | 19°10 | 2°25 | 1°27 | 5°51 | 3°17 | W11 |
| T 12 | 5 23 22 | 20°17'20 | 13°42 | 13°58 | 7°13 | 27°11 | 12°53 | 27°22 | 20° 5 | 3°49 | 19° 8 | 2°22 | 1°23 | 5°58 | 3°23 | T 12 |
| F 13 | 5 27 18 | 21°18'25 | 25°49 | 15°32 | 8° 9 | 27°53 | 12°51 | 27°27 | 20° 8 | 3°51 | 19° 7 | 2°19 | 1°20 | 6° 4 | 3°29 | F 13 |
| S 14 | 5 31 15 | 22°19'30 | 8♌ 5 | 17° 6 | 9° 5 | 28°35 | 12°48 | 27°33 | 20°12 | 3°54 | 19° 6 | 2°16 | 1°17 | 6°11 | 3°35 | S 14 |
| S 15 | 5 35 11 | 23°20'36 | 20°33 | 18°40 | 10° 0 | 29°18 | 12°45 | 27°38 | 20°15 | 3°56 | 19° 5 | 2°13 | 1°14 | 6°18 | 3°41 | S 15 |
| M16 | 5 39 8 | 24°21'42 | 3♍16 | 20°14 | 10°54 | 0♐ 0 | 12°42 | 27°43 | 20°18 | 3°58 | 19° 4 | 2°10 | 1°11 | 6°24 | 3°47 | M16 |
| T 17 | 5 43 5 | 25°22'50 | 16°16 | 21°48 | 11°48 | 0°42 | 12°38 | 27°48 | 20°21 | 4° 0 | 19° 2 | 2° 9 | 1° 8 | 6°31 | 3°53 | T 17 |
| W18 | 5 47 1 | 26°23'58 | 29°36 | 23°23 | 12°41 | 1°25 | 12°35 | 27°53 | 20°25 | 4° 3 | 19° 1 | 2°D 9 | 1° 4 | 6°38 | 3°59 | W18 |
| T 19 | 5 50 58 | 27°25'07 | 13♎18 | 24°57 | 13°33 | 2° 7 | 12°31 | 27°57 | 20°28 | 4° 5 | 19° 0 | 2° 9 | 1° 1 | 6°44 | 4° 5 | T 19 |
| F 20 | 5 54 54 | 28°26'16 | 27°23 | 26°32 | 14°25 | 2°50 | 12°27 | 28° 2 | 20°31 | 4° 7 | 18°59 | 2°11 | 0°58 | 6°51 | 4°11 | F 20 |
| S 21 | 5 58 51 | 29°27'26 | 11♏50 | 28° 7 | 15°16 | 3°32 | 12°23 | 28° 7 | 20°35 | 4° 9 | 18°58 | 2°12 | 0°55 | 6°57 | 4°18 | S 21 |
| S 22 | 6 2 47 | 0♑28'37 | 26°37 | 29°43 | 16° 6 | 4°15 | 12°19 | 28°12 | 20°38 | 4°12 | 18°57 | 2°R13 | 0°52 | 7° 4 | 4°24 | S 22 |
| M23 | 6 6 44 | 1°29'48 | 11♐38 | 1♑19 | 16°55 | 4°57 | 12°14 | 28°16 | 20°41 | 4°14 | 18°56 | 2°13 | 0°49 | 7°11 | 4°30 | M23 |
| T 24 | 6 10 40 | 2°31'00 | 26°45 | 2°55 | 17°43 | 5°40 | 12° 9 | 28°21 | 20°45 | 4°16 | 18°54 | 2°11 | 0°45 | 7°17 | 4°36 | T 24 |
| W25 | 6 14 37 | 3°32'11 | 11♑49 | 4°31 | 18°31 | 6°22 | 12° 5 | 28°25 | 20°48 | 4°19 | 18°53 | 2° 8 | 0°42 | 7°24 | 4°42 | W25 |
| T 26 | 6 18 34 | 4°33'23 | 26°42 | 6° 7 | 19°17 | 7° 5 | 12° 0 | 28°29 | 20°52 | 4°21 | 18°52 | 2° 4 | 0°39 | 7°31 | 4°48 | T 26 |
| F 27 | 6 22 30 | 5°34'35 | 11♒14 | 7°44 | 20° 3 | 7°48 | 11°55 | 28°33 | 20°55 | 4°23 | 18°51 | 1°58 | 0°36 | 7°37 | 4°54 | F 27 |
| S 28 | 6 26 27 | 6°35'46 | 25°20 | 9°22 | 20°47 | 8°31 | 11°49 | 28°38 | 20°59 | 4°25 | 18°50 | 1°53 | 0°33 | 7°44 | 5° 0 | S 28 |
| S 29 | 6 30 23 | 7°36'58 | 8♓57 | 10°59 | 21°31 | 9°13 | 11°44 | 28°42 | 21° 2 | 4°28 | 18°49 | 1°48 | 0°29 | 7°51 | 5° 7 | S 29 |
| M30 | 6 34 20 | 8°38'09 | 22° 7 | 12°37 | 22°13 | 9°56 | 11°38 | 28°46 | 21° 6 | 4°30 | 18°48 | 1°45 | 0°26 | 7°57 | 5°13 | M30 |
| T 31 | 6 38 16 | 9♑39'19 | 4♈51 | 14♑15 | 22♒55 | 10♐39 | 11♌33 | 28♎49 | 21♑ 9 | 4♑32 | 18♊47 | 1°D44 | 0♐23 | 8♊ 4 | 5♑19 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat |
| S 1 | 21s51 | 6s23 | 5n18 | 18s54 | 0n37 | 23s33 | 2s41 | 17s27 | 0n12 | 17n32 | 0n39 | 8s 0 | 2n20 | 22s31 | 0s28 | 22s28 | 0n58 | 15n 2 | 8s 2 | 20s40 | 20s36 | 20n53 | 17s29 | 5n59 |
| M 2 | 22 0 | 1 43 | 5 12 | 19 22 | 0 30 | 23 19 | 2 39 | 17 39 | 0 11 | 17 32 | 0 39 | 8 2 | 2 20 | 22 31 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 40 | 20 35 | 20 53 | 17 29 | 5 58 |
| T 3 | 22 9 | 2n54 | 4 51 | 19 49 | 0 23 | 23 4 | 2 36 | 17 50 | 0 11 | 17 32 | 0 40 | 8 4 | 2 20 | 22 30 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 40 | 20 34 | 20 53 | 17 29 | 5 58 |
| W 4 | 22 17 | 7 18 | 4 17 | 20 15 | 0 16 | 22 49 | 2 34 | 18 2 | 0 10 | 17 33 | 0 40 | 8 6 | 2 20 | 22 30 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 41 | 20 34 | 20 54 | 17 29 | 5 58 |
| T 5 | 22 25 | 11 20 | 3 32 | 20 40 | 0 9 | 22 33 | 2 31 | 18 13 | 0 9 | 17 33 | 0 40 | 8 8 | 2 21 | 22 30 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 41 | 20 33 | 20 54 | 17 29 | 5 58 |
| F 6 | 22 33 | 14 52 | 2 38 | 21 5 | 0 2 | 22 17 | 2 28 | 18 25 | 0 9 | 17 34 | 0 40 | 8 10 | 2 21 | 22 29 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 41 | 20 32 | 20 54 | 17 29 | 5 58 |
| S 7 | 22 40 | 17 46 | 1 38 | 21 28 | 0s 5 | 22 0 | 2 24 | 18 36 | 0 8 | 17 35 | 0 41 | 8 12 | 2 21 | 22 29 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 41 | 20 32 | 20 55 | 17 29 | 5 58 |
| S 8 | 22 46 | 19 54 | 0 34 | 21 50 | 0 12 | 21 43 | 2 21 | 18 47 | 0 8 | 17 35 | 0 41 | 8 14 | 2 21 | 22 28 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 41 | 20 31 | 20 55 | 17 29 | 5 58 |
| M 9 | 22 52 | 21 11 | 0s31 | 22 12 | 0 19 | 21 26 | 2 17 | 18 57 | 0 7 | 17 36 | 0 41 | 8 16 | 2 21 | 22 28 | 0 28 | 22 28 | 0 58 | 15 2 | 8 2 | 20 41 | 20 30 | 20 55 | 17 29 | 5 58 |
| T 10 | 22 58 | 21 31 | 1 35 | 22 32 | 0 25 | 21 8 | 2 13 | 19 8 | 0 6 | 17 37 | 0 41 | 8 17 | 2 22 | 22 27 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 41 | 20 30 | 20 56 | 17 29 | 5 58 |
| W11 | 23 3 | 20 53 | 2 35 | 22 51 | 0 32 | 20 49 | 2 9 | 19 19 | 0 6 | 17 38 | 0 41 | 8 19 | 2 22 | 22 27 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 41 | 20 29 | 20 56 | 17 29 | 5 58 |
| T 12 | 23 8 | 19 19 | 3 29 | 23 9 | 0 38 | 20 31 | 2 5 | 19 29 | 0 5 | 17 39 | 0 42 | 8 21 | 2 22 | 22 26 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 40 | 20 29 | 20 56 | 17 29 | 5 58 |
| F 13 | 23 12 | 16 52 | 4 14 | 23 26 | 0 44 | 20 12 | 2 0 | 19 39 | 0 5 | 17 39 | 0 42 | 8 23 | 2 22 | 22 26 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 40 | 20 28 | 20 56 | 17 29 | 5 58 |
| S 14 | 23 16 | 13 38 | 4 48 | 23 42 | 0 51 | 19 53 | 1 56 | 19 49 | 0 4 | 17 40 | 0 42 | 8 24 | 2 22 | 22 25 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 39 | 20 27 | 20 57 | 17 29 | 5 58 |
| S 15 | 23 19 | 9 47 | 5 9 | 23 56 | 0 57 | 19 33 | 1 51 | 19 59 | 0 3 | 17 42 | 0 42 | 8 26 | 2 22 | 22 25 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 38 | 20 27 | 20 57 | 17 28 | 5 58 |
| M16 | 23 22 | 5 25 | 5 15 | 24 9 | 1 2 | 19 13 | 1 46 | 20 9 | 0 3 | 17 43 | 0 43 | 8 28 | 2 23 | 22 24 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 38 | 20 26 | 20 57 | 17 28 | 5 58 |
| T 17 | 23 24 | 0 44 | 5 6 | 24 22 | 1 8 | 18 53 | 1 40 | 20 18 | 0 2 | 17 44 | 0 43 | 8 29 | 2 23 | 22 24 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 38 | 20 25 | 20 58 | 17 28 | 5 58 |
| W18 | 23 26 | 4s 7 | 4 40 | 24 32 | 1 13 | 18 33 | 1 35 | 20 27 | 0 1 | 17 45 | 0 43 | 8 31 | 2 23 | 22 23 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 38 | 20 25 | 20 58 | 17 28 | 5 58 |
| T 19 | 23 27 | 8 54 | 3 58 | 24 42 | 1 19 | 18 12 | 1 29 | 20 37 | 0 1 | 17 46 | 0 43 | 8 32 | 2 23 | 22 23 | 0 28 | 22 27 | 0 58 | 15 2 | 8 2 | 20 38 | 20 24 | 20 58 | 17 28 | 5 58 |
| F 20 | 23 28 | 13 22 | 3 0 | 24 50 | 1 24 | 17 51 | 1 23 | 20 46 | 0 0 | 17 48 | 0 44 | 8 34 | 2 23 | 22 22 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 38 | 20 23 | 20 58 | 17 28 | 5 58 |
| S 21 | 23 29 | 17 9 | 1 50 | 24 57 | 1 29 | 17 30 | 1 17 | 20 54 | 0s 1 | 17 49 | 0 44 | 8 35 | 2 24 | 22 22 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 38 | 20 23 | 20 59 | 17 27 | 5 58 |
| S 22 | 23 29 | 19 56 | 0 31 | 25 2 | 1 33 | 17 9 | 1 10 | 21 3 | 0 1 | 17 50 | 0 44 | 8 37 | 2 24 | 22 21 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 39 | 20 22 | 20 59 | 17 27 | 5 58 |
| M23 | 23 28 | 21 22 | 0n51 | 25 6 | 1 38 | 16 48 | 1 3 | 21 11 | 0 2 | 17 52 | 0 44 | 8 38 | 2 24 | 22 21 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 39 | 20 21 | 20 59 | 17 27 | 5 58 |
| T 24 | 23 27 | 21 16 | 2 11 | 25 9 | 1 42 | 16 26 | 0 56 | 21 20 | 0 2 | 17 53 | 0 44 | 8 39 | 2 24 | 22 20 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 38 | 20 21 | 20 59 | 17 27 | 5 58 |
| W25 | 23 26 | 19 38 | 3 20 | 25 10 | 1 46 | 16 5 | 0 49 | 21 28 | 0 3 | 17 55 | 0 45 | 8 41 | 2 24 | 22 20 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 38 | 20 20 | 20 59 | 17 26 | 5 58 |
| T 26 | 23 24 | 16 41 | 4 15 | 25 9 | 1 49 | 15 43 | 0 41 | 21 36 | 0 4 | 17 57 | 0 45 | 8 42 | 2 25 | 22 19 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 37 | 20 19 | 21 0 | 17 26 | 5 58 |
| F 27 | 23 22 | 12 45 | 4 52 | 25 8 | 1 52 | 15 21 | 0 34 | 21 43 | 0 4 | 17 58 | 0 45 | 8 43 | 2 25 | 22 19 | 0 28 | 22 27 | 0 58 | 15 2 | 8 1 | 20 36 | 20 19 | 21 0 | 17 26 | 5 58 |
| S 28 | 23 19 | 8 14 | 5 10 | 25 4 | 1 55 | 15 0 | 0 26 | 21 51 | 0 5 | 18 0 | 0 45 | 8 45 | 2 25 | 22 18 | 0 28 | 22 26 | 0 58 | 15 2 | 8 1 | 20 35 | 20 18 | 21 0 | 17 26 | 5 58 |
| S 29 | 23 16 | 3 26 | 5 10 | 24 59 | 1 58 | 14 38 | 0 17 | 21 58 | 0 6 | 18 2 | 0 45 | 8 46 | 2 25 | 22 18 | 0 28 | 22 26 | 0 58 | 15 2 | 8 1 | 20 34 | 20 17 | 21 0 | 17 25 | 5 58 |
| M30 | 23 12 | 1n21 | 4 53 | 24 53 | 2 1 | 14 16 | 0 9 | 22 5 | 0 6 | 18 3 | 0 46 | 8 47 | 2 26 | 22 17 | 0 28 | 22 26 | 0 58 | 15 2 | 8 1 | 20 33 | 20 17 | 21 1 | 17 25 | 5 58 |
| T 31 | 23s 8 | 5n56 | 4n22 | 24s45 | 2s 3 | 13s54 | 0n 0 | 22s12 | 0s 7 | 18n 5 | 0n46 | 8s48 | 2n26 | 22s17 | 0s28 | 22s26 | 0n58 | 15n 2 | 8s 0 | 20s33 | 20s16 | 21n 1 | 17s25 | 5n58 |

Julian Day Number = 2326966.5, Delta T = 37.13 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'46, Lahiri = 19°05'46Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## JANUARY 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 42 13 | 10♑40'30 | 17♈14 | 15♑54 | 23♒35 | 11♐22 | 11°R27 | 28♎53 | 21♑13 | 4♑34 | 18°R45 | 1♐44 | 0♐20 | 8♊11 | 5♑25 | W 1 |
| T 2 | 6 46 10 | 11°41'39 | 29°20 | 17°33 | 24°14 | 12° 5 | 11♌21 | 28°57 | 21°16 | 4°37 | 18♊44 | 1°45 | 0°17 | 8°17 | 5°31 | T 2 |
| F 3 | 6 50 6 | 12°42'49 | 11♉14 | 19°12 | 24°51 | 12°48 | 11°14 | 29° 1 | 21°20 | 4°39 | 18°43 | 1°47 | 0°14 | 8°24 | 5°37 | F 3 |
| S 4 | 6 54 3 | 13°43'58 | 23° 2 | 20°52 | 25°27 | 13°31 | 11° 8 | 29° 4 | 21°23 | 4°41 | 18°42 | 1°48 | 0°10 | 8°31 | 5°43 | S 4 |
| S 5 | 6 57 59 | 14°45'07 | 4♊49 | 22°32 | 26° 2 | 14°14 | 11° 2 | 29° 7 | 21°27 | 4°43 | 18°41 | 1°R49 | 0° 7 | 8°37 | 5°49 | S 5 |
| M 6 | 7 1 56 | 15°46'15 | 16°37 | 24°12 | 26°35 | 14°57 | 10°55 | 29°11 | 21°30 | 4°46 | 18°40 | 1°47 | 0° 4 | 8°44 | 5°55 | M 6 |
| T 7 | 7 5 52 | 16°47'23 | 28°30 | 25°52 | 27° 7 | 15°40 | 10°48 | 29°14 | 21°34 | 4°48 | 18°39 | 1°44 | 0° 1 | 8°50 | 6° 1 | T 7 |
| W 8 | 7 9 49 | 17°48'30 | 10♋31 | 27°32 | 27°37 | 16°23 | 10°42 | 29°17 | 21°37 | 4°50 | 18°38 | 1°38 | 29♏58 | 8°57 | 6° 7 | W 8 |
| T 9 | 7 13 45 | 18°49'37 | 22°42 | 29°13 | 28° 6 | 17° 7 | 10°35 | 29°20 | 21°41 | 4°52 | 18°37 | 1°31 | 29°55 | 9° 4 | 6°13 | T 9 |
| F 10 | 7 17 42 | 19°50'43 | 5♌ 3 | 0♒53 | 28°33 | 17°50 | 10°28 | 29°23 | 21°44 | 4°55 | 18°36 | 1°21 | 29°51 | 9°10 | 6°19 | F 10 |
| S 11 | 7 21 39 | 20°51'49 | 17°35 | 2°34 | 28°58 | 18°33 | 10°21 | 29°26 | 21°48 | 4°57 | 18°35 | 1°12 | 29°48 | 9°17 | 6°25 | S 11 |
| S 12 | 7 25 35 | 21°52'54 | 0♍19 | 4°14 | 29°21 | 19°16 | 10°13 | 29°29 | 21°51 | 4°59 | 18°34 | 1° 3 | 29°45 | 9°24 | 6°31 | S 12 |
| M13 | 7 29 32 | 22°54'00 | 13°15 | 5°53 | 29°42 | 20° 0 | 10° 6 | 29°32 | 21°55 | 5° 1 | 18°33 | 0°55 | 29°42 | 9°30 | 6°37 | M13 |
| T 14 | 7 33 28 | 23°55'04 | 26°23 | 7°32 | 0♓ 2 | 20°43 | 9°59 | 29°34 | 21°58 | 5° 3 | 18°32 | 0°49 | 29°39 | 9°37 | 6°43 | T 14 |
| W15 | 7 37 25 | 24°56'09 | 9♎45 | 9°11 | 0°19 | 21°27 | 9°51 | 29°37 | 22° 2 | 5° 6 | 18°31 | 0°46 | 29°35 | 9°44 | 6°49 | W15 |
| T 16 | 7 41 21 | 25°57'13 | 23°22 | 10°48 | 0°34 | 22°10 | 9°44 | 29°39 | 22° 6 | 5° 8 | 18°30 | 0°D44 | 29°32 | 9°50 | 6°55 | T 16 |
| F 17 | 7 45 18 | 26°58'16 | 7♏15 | 12°24 | 0°48 | 22°54 | 9°36 | 29°41 | 22° 9 | 5°10 | 18°30 | 0°45 | 29°29 | 9°57 | 7° 1 | F 17 |
| S 18 | 7 49 14 | 27°59'20 | 21°23 | 13°58 | 0°59 | 23°37 | 9°29 | 29°44 | 22°13 | 5°12 | 18°29 | 0°45 | 29°26 | 10° 4 | 7° 6 | S 18 |
| S 19 | 7 53 11 | 29° 0'22 | 5♐48 | 15°30 | 1° 7 | 24°21 | 9°21 | 29°46 | 22°16 | 5°14 | 18°28 | 0°R46 | 29°23 | 10°10 | 7°12 | S 19 |
| M20 | 7 57 8 | 0♒ 1'25 | 20°25 | 17° 0 | 1°14 | 25° 4 | 9°13 | 29°48 | 22°20 | 5°16 | 18°27 | 0°44 | 29°20 | 10°17 | 7°18 | M20 |
| T 21 | 8 1 4 | 1° 2'27 | 5♑10 | 18°26 | 1°18 | 25°48 | 9° 5 | 29°49 | 22°23 | 5°18 | 18°26 | 0°40 | 29°16 | 10°24 | 7°24 | T 21 |
| W22 | 8 5 1 | 2° 3'28 | 19°57 | 19°49 | 1°R19 | 26°32 | 8°57 | 29°51 | 22°27 | 5°20 | 18°25 | 0°33 | 29°13 | 10°30 | 7°29 | W22 |
| T 23 | 8 8 57 | 3° 4'28 | 4♒38 | 21° 7 | 1°19 | 27°15 | 8°49 | 29°53 | 22°30 | 5°23 | 18°25 | 0°24 | 29°10 | 10°37 | 7°35 | T 23 |
| F 24 | 8 12 54 | 4° 5'27 | 19° 5 | 22°21 | 1°15 | 27°59 | 8°41 | 29°55 | 22°34 | 5°25 | 18°24 | 0°13 | 29° 7 | 10°44 | 7°41 | F 24 |
| S 25 | 8 16 50 | 5° 6'25 | 3♓11 | 23°28 | 1° 9 | 28°43 | 8°33 | 29°56 | 22°37 | 5°27 | 18°23 | 0° 2 | 29° 4 | 10°50 | 7°46 | S 25 |
| S 26 | 8 20 47 | 6° 7'21 | 16°52 | 24°29 | 1° 1 | 29°27 | 8°25 | 29°57 | 22°41 | 5°29 | 18°22 | 29♏53 | 29° 1 | 10°57 | 7°52 | S 26 |
| M27 | 8 24 43 | 7° 8'17 | 0♈ 6 | 25°23 | 0°50 | 0♑11 | 8°17 | 29°59 | 22°44 | 5°31 | 18°22 | 29°45 | 28°57 | 11° 3 | 7°57 | M27 |
| T 28 | 8 28 40 | 8° 9'11 | 12°55 | 26° 8 | 0°37 | 0°55 | 8° 9 | 29°59 | 22°48 | 5°33 | 18°21 | 29°39 | 28°54 | 11°10 | 8° 3 | T 28 |
| W29 | 8 32 37 | 9°10'04 | 25°21 | 26°45 | 0°21 | 1°38 | 8° 1 | 0♏ 1 | 22°51 | 5°35 | 18°20 | 29°36 | 28°51 | 11°17 | 8° 8 | W29 |
| T 30 | 8 36 33 | 10°10'56 | 7♉29 | 27°12 | 0° 3 | 2°22 | 7°54 | 0° 2 | 22°54 | 5°37 | 18°19 | 29°D35 | 28°48 | 11°23 | 8°14 | T 30 |
| F 31 | 8 40 30 | 11♒11'46 | 19♉25 | 27♒28 | 29♒42 | 3♑ 6 | 7♌46 | 0♏ 3 | 22♑58 | 5♑39 | 18♊19 | 29♏35 | 28♏45 | 11♊30 | 8♑19 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s 3 | 10n 9 | 3n39 | 24s35 | 2s 4 | 13s32 | 0n 9 | 22s19 | 0s 8 | 18n 7 | 0n46 | 8s49 | 2n26 | 22s16 | 0s28 | 22s26 | 0n58 | 15n 2 | 8s 0 | 20s33 | 20s15 | 21n 1 | 17s24 | 5n58 |
| T 2 | 22 58 | 13 52 | 2 48 | 24 24 | 2 6 | 13 11 | 0 19 | 22 25 | 0 8 | 18 9 | 0 46 | 8 50 | 2 26 | 22 16 | 0 28 | 22 26 | 0 58 | 15 2 | 8 0 | 20 33 | 20 15 | 21 1 | 17 24 | 5 58 |
| F 3 | 22 52 | 16 58 | 1 50 | 24 11 | 2 7 | 12 49 | 0 28 | 22 31 | 0 9 | 18 11 | 0 46 | 8 51 | 2 27 | 22 15 | 0 28 | 22 26 | 0 58 | 15 2 | 8 0 | 20 33 | 20 14 | 21 1 | 17 24 | 5 59 |
| S 4 | 22 46 | 19 20 | 0 48 | 23 57 | 2 7 | 12 28 | 0 38 | 22 38 | 0 10 | 18 13 | 0 47 | 8 52 | 2 27 | 22 14 | 0 28 | 22 26 | 0 58 | 15 2 | 8 0 | 20 34 | 20 13 | 21 1 | 17 23 | 5 59 |
| S 5 | 22 40 | 20 52 | 0s16 | 23 41 | 2 7 | 12 6 | 0 48 | 22 43 | 0 11 | 18 15 | 0 47 | 8 53 | 2 27 | 22 14 | 0 28 | 22 26 | 0 58 | 15 2 | 8 0 | 20 34 | 20 13 | 21 2 | 17 23 | 5 59 |
| M 6 | 22 33 | 21 29 | 1 19 | 23 23 | 2 7 | 11 45 | 0 59 | 22 49 | 0 11 | 18 17 | 0 47 | 8 54 | 2 27 | 22 13 | 0 28 | 22 26 | 0 58 | 15 2 | 8 0 | 20 33 | 20 12 | 21 2 | 17 22 | 5 59 |
| T 7 | 22 26 | 21 9 | 2 20 | 23 4 | 2 6 | 11 24 | 1 9 | 22 54 | 0 12 | 18 19 | 0 47 | 8 55 | 2 27 | 22 13 | 0 28 | 22 26 | 0 58 | 15 2 | 8 0 | 20 33 | 20 11 | 21 2 | 17 22 | 5 59 |
| W 8 | 22 18 | 19 51 | 3 14 | 22 43 | 2 4 | 11 4 | 1 21 | 23 0 | 0 13 | 18 21 | 0 47 | 8 56 | 2 28 | 22 12 | 0 28 | 22 26 | 0 58 | 15 2 | 7 59 | 20 32 | 20 11 | 21 2 | 17 22 | 5 59 |
| T 9 | 22 9 | 17 37 | 4 0 | 22 21 | 2 2 | 10 43 | 1 32 | 23 5 | 0 13 | 18 23 | 0 48 | 8 57 | 2 28 | 22 12 | 0 28 | 22 26 | 0 58 | 15 2 | 7 59 | 20 30 | 20 10 | 21 2 | 17 21 | 5 59 |
| F 10 | 22 1 | 14 35 | 4 35 | 21 57 | 2 0 | 10 23 | 1 43 | 23 9 | 0 14 | 18 25 | 0 48 | 8 58 | 2 28 | 22 11 | 0 28 | 22 25 | 0 58 | 15 2 | 7 59 | 20 28 | 20 9 | 21 2 | 17 21 | 6 0 |
| S 11 | 21 52 | 10 51 | 4 58 | 21 31 | 1 57 | 10 3 | 1 55 | 23 14 | 0 15 | 18 27 | 0 48 | 8 59 | 2 28 | 22 11 | 0 28 | 22 25 | 0 58 | 15 2 | 7 59 | 20 26 | 20 9 | 21 3 | 17 20 | 6 0 |
| S 12 | 21 42 | 6 36 | 5 7 | 21 4 | 1 53 | 9 44 | 2 7 | 23 18 | 0 15 | 18 29 | 0 48 | 8 59 | 2 29 | 22 10 | 0 28 | 22 25 | 0 58 | 15 2 | 7 59 | 20 24 | 20 8 | 21 3 | 17 20 | 6 0 |
| M13 | 21 32 | 1 59 | 5 0 | 20 35 | 1 49 | 9 25 | 2 20 | 23 22 | 0 16 | 18 31 | 0 48 | 9 0 | 2 29 | 22 9 | 0 28 | 22 25 | 0 58 | 15 2 | 7 59 | 20 23 | 20 7 | 21 3 | 17 19 | 6 0 |
| T 14 | 21 22 | 2s48 | 4 37 | 20 5 | 1 44 | 9 6 | 2 32 | 23 26 | 0 17 | 18 33 | 0 48 | 9 1 | 2 29 | 22 9 | 0 28 | 22 25 | 0 58 | 15 2 | 7 59 | 20 21 | 20 7 | 21 3 | 17 19 | 6 0 |
| W15 | 21 11 | 7 32 | 3 59 | 19 34 | 1 38 | 8 48 | 2 45 | 23 30 | 0 17 | 18 35 | 0 49 | 9 1 | 2 29 | 22 8 | 0 28 | 22 25 | 0 58 | 15 2 | 7 58 | 20 21 | 20 6 | 21 3 | 17 18 | 6 1 |
| T 16 | 21 0 | 11 59 | 3 7 | 19 1 | 1 32 | 8 31 | 2 58 | 23 33 | 0 18 | 18 38 | 0 49 | 9 2 | 2 30 | 22 8 | 0 28 | 22 25 | 0 58 | 15 2 | 7 58 | 20 21 | 20 5 | 21 3 | 17 18 | 6 1 |
| F 17 | 20 48 | 15 53 | 2 3 | 18 28 | 1 24 | 8 14 | 3 12 | 23 36 | 0 19 | 18 40 | 0 49 | 9 3 | 2 30 | 22 7 | 0 28 | 22 25 | 0 58 | 15 3 | 7 58 | 20 21 | 20 5 | 21 3 | 17 17 | 6 1 |
| S 18 | 20 36 | 18 57 | 0 50 | 17 53 | 1 16 | 7 57 | 3 25 | 23 39 | 0 20 | 18 42 | 0 49 | 9 3 | 2 30 | 22 7 | 0 28 | 22 25 | 0 58 | 15 3 | 7 58 | 20 21 | 20 4 | 21 3 | 17 17 | 6 1 |
| S 19 | 20 24 | 20 52 | 0n27 | 17 17 | 1 7 | 7 41 | 3 39 | 23 42 | 0 20 | 18 44 | 0 49 | 9 4 | 2 30 | 22 6 | 0 28 | 22 25 | 0 58 | 15 3 | 7 58 | 20 21 | 20 3 | 21 4 | 17 16 | 6 1 |
| M20 | 20 11 | 21 25 | 1 43 | 16 41 | 0 58 | 7 26 | 3 53 | 23 44 | 0 21 | 18 47 | 0 49 | 9 4 | 2 31 | 22 6 | 0 28 | 22 25 | 0 58 | 15 3 | 7 58 | 20 20 | 20 3 | 21 4 | 17 16 | 6 2 |
| T 21 | 19 58 | 20 30 | 2 53 | 16 4 | 0 47 | 7 11 | 4 7 | 23 47 | 0 22 | 18 49 | 0 50 | 9 4 | 2 31 | 22 5 | 0 28 | 22 25 | 0 58 | 15 3 | 7 57 | 20 20 | 20 2 | 21 4 | 17 15 | 6 2 |
| W22 | 19 44 | 18 11 | 3 51 | 15 28 | 0 36 | 6 58 | 4 21 | 23 49 | 0 23 | 18 51 | 0 50 | 9 5 | 2 31 | 22 4 | 0 28 | 22 24 | 0 58 | 15 3 | 7 57 | 20 18 | 20 1 | 21 4 | 17 15 | 6 2 |
| T 23 | 19 30 | 14 42 | 4 34 | 14 51 | 0 23 | 6 45 | 4 35 | 23 50 | 0 23 | 18 53 | 0 50 | 9 5 | 2 31 | 22 4 | 0 28 | 22 24 | 0 58 | 15 3 | 7 57 | 20 16 | 20 0 | 21 4 | 17 14 | 6 2 |
| F 24 | 19 16 | 10 24 | 4 58 | 14 15 | 0 10 | 6 32 | 4 49 | 23 52 | 0 24 | 18 55 | 0 50 | 9 5 | 2 32 | 22 3 | 0 28 | 22 24 | 0 58 | 15 3 | 7 57 | 20 14 | 20 0 | 21 4 | 17 13 | 6 3 |
| S 25 | 19 1 | 5 39 | 5 3 | 13 39 | 0n 4 | 6 21 | 5 3 | 23 53 | 0 25 | 18 58 | 0 50 | 9 6 | 2 32 | 22 3 | 0 28 | 22 24 | 0 58 | 15 3 | 7 57 | 20 12 | 19 59 | 21 4 | 17 13 | 6 3 |
| S 26 | 18 47 | 0 44 | 4 51 | 13 5 | 0 19 | 6 11 | 5 18 | 23 54 | 0 25 | 19 0 | 0 50 | 9 6 | 2 32 | 22 2 | 0 28 | 22 24 | 0 58 | 15 3 | 7 57 | 20 10 | 19 58 | 21 4 | 17 12 | 6 3 |
| M27 | 18 31 | 4n 3 | 4 23 | 12 33 | 0 34 | 6 1 | 5 32 | 23 55 | 0 26 | 19 2 | 0 50 | 9 6 | 2 33 | 22 2 | 0 28 | 22 24 | 0 58 | 15 4 | 7 56 | 20 8 | 19 58 | 21 4 | 17 12 | 6 4 |
| T 28 | 18 16 | 8 31 | 3 42 | 12 2 | 0 51 | 5 53 | 5 46 | 23 56 | 0 27 | 19 4 | 0 50 | 9 6 | 2 33 | 22 1 | 0 28 | 22 24 | 0 58 | 15 4 | 7 56 | 20 7 | 19 57 | 21 4 | 17 11 | 6 4 |
| W29 | 18 0 | 12 29 | 2 52 | 11 34 | 1 7 | 5 45 | 6 0 | 23 56 | 0 28 | 19 6 | 0 51 | 9 6 | 2 33 | 22 0 | 0 28 | 22 24 | 0 58 | 15 4 | 7 56 | 20 6 | 19 56 | 21 4 | 17 10 | 6 4 |
| T 30 | 17 43 | 15 51 | 1 55 | 11 9 | 1 24 | 5 39 | 6 13 | 23 56 | 0 28 | 19 9 | 0 51 | 9 7 | 2 33 | 22 0 | 0 28 | 22 24 | 0 58 | 15 4 | 7 56 | 20 6 | 19 56 | 21 4 | 17 10 | 6 5 |
| F 31 | 17s27 | 18n29 | 0n54 | 10s47 | 1n41 | 5s33 | 6n27 | 23s56 | 0s29 | 19n11 | 0n51 | 9s 7 | 2n34 | 21s59 | 0s28 | 22s24 | 0n58 | 15n 4 | 7s56 | 20s 6 | 19s55 | 21n 4 | 17s 9 | 6n 5 |

Julian Day Number = 2326997.5, Delta T = 37.07 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'50, Lahiri = 19°05'51Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## FEBRUARY 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 44 26 | 12♒12'34 | 1♊13 | 27°R34 | 29°R19 | 3♉50 | 7°R38 | 0♏ 3 | 23♉ 1 | 5♉40 | 18°R18 | 29°R36 | 28♏41 | 11♊37 | 8♉25 | S 1 |
| S 2 | 8 48 23 | 13°13'21 | 13° 0 | 27♒29 | 28♒54 | 4°34 | 7♌30 | 0° 4 | 23° 5 | 5°42 | 18♊18 | 29♏35 | 28°38 | 11°43 | 8°30 | S 2 |
| M 3 | 8 52 19 | 14°14'07 | 24°50 | 27°13 | 28°26 | 5°19 | 7°22 | 0° 4 | 23° 8 | 5°44 | 18°17 | 29°32 | 28°35 | 11°50 | 8°35 | M 3 |
| T 4 | 8 56 16 | 15°14'51 | 6♋48 | 26°46 | 27°57 | 6° 3 | 7°14 | 0° 5 | 23°11 | 5°46 | 18°16 | 29°26 | 28°32 | 11°57 | 8°40 | T 4 |
| W 5 | 9 0 12 | 16°15'34 | 18°57 | 26° 9 | 27°26 | 6°47 | 7° 6 | 0° 5 | 23°15 | 5°48 | 18°16 | 29°18 | 28°29 | 12° 3 | 8°46 | W 5 |
| T 6 | 9 4 9 | 17°16'15 | 1♌20 | 25°23 | 26°53 | 7°31 | 6°58 | 0° 5 | 23°18 | 5°50 | 18°15 | 29° 7 | 28°26 | 12°10 | 8°51 | T 6 |
| F 7 | 9 8 6 | 18°16'55 | 13°57 | 24°29 | 26°19 | 8°15 | 6°51 | 0° 6 | 23°21 | 5°52 | 18°15 | 28°54 | 28°22 | 12°17 | 8°56 | F 7 |
| S 8 | 9 12 2 | 19°17'33 | 26°49 | 23°29 | 25°44 | 8°59 | 6°43 | 0°R 6 | 23°25 | 5°53 | 18°14 | 28°41 | 28°19 | 12°23 | 9° 1 | S 8 |
| S 9 | 9 15 59 | 20°18'10 | 9♍54 | 22°24 | 25° 8 | 9°44 | 6°35 | 0° 5 | 23°28 | 5°55 | 18°14 | 28°27 | 28°16 | 12°30 | 9° 6 | S 9 |
| M10 | 9 19 55 | 21°18'45 | 23°12 | 21°16 | 24°31 | 10°28 | 6°28 | 0° 5 | 23°31 | 5°57 | 18°13 | 28°16 | 28°13 | 12°37 | 9°11 | M10 |
| T 11 | 9 23 52 | 22°19'19 | 6♎41 | 20° 7 | 23°54 | 11°12 | 6°20 | 0° 5 | 23°34 | 5°59 | 18°13 | 28° 7 | 28°10 | 12°43 | 9°16 | T 11 |
| W12 | 9 27 48 | 23°19'52 | 20°18 | 18°59 | 23°16 | 11°57 | 6°13 | 0° 5 | 23°38 | 6° 0 | 18°12 | 28° 1 | 28° 6 | 12°50 | 9°21 | W12 |
| T 13 | 9 31 45 | 24°20'24 | 4♏ 4 | 17°53 | 22°39 | 12°41 | 6° 6 | 0° 4 | 23°41 | 6° 2 | 18°12 | 27°58 | 28° 3 | 12°56 | 9°26 | T 13 |
| F 14 | 9 35 41 | 25°20'54 | 17°58 | 16°50 | 22° 2 | 13°26 | 5°58 | 0° 3 | 23°44 | 6° 4 | 18°12 | 27°57 | 28° 0 | 13° 3 | 9°30 | F 14 |
| S 15 | 9 39 38 | 26°21'23 | 1♐59 | 15°53 | 21°25 | 14°10 | 5°51 | 0° 3 | 23°47 | 6° 5 | 18°11 | 27°57 | 27°57 | 13°10 | 9°35 | S 15 |
| S 16 | 9 43 35 | 27°21'51 | 16° 8 | 15° 2 | 20°49 | 14°55 | 5°44 | 0° 2 | 23°50 | 6° 7 | 18°11 | 27°56 | 27°54 | 13°16 | 9°40 | S 16 |
| M17 | 9 47 31 | 28°22'17 | 0♑23 | 14°18 | 20°15 | 15°39 | 5°37 | 0° 1 | 23°53 | 6° 8 | 18°11 | 27°54 | 27°51 | 13°23 | 9°44 | M17 |
| T 18 | 9 51 28 | 29°22'42 | 14°43 | 13°41 | 19°42 | 16°24 | 5°31 | 29♎59 | 23°56 | 6°10 | 18°10 | 27°49 | 27°47 | 13°30 | 9°49 | T 18 |
| W19 | 9 55 24 | 0♓23'06 | 29° 2 | 13°11 | 19°10 | 17° 8 | 5°24 | 29°59 | 23°59 | 6°12 | 18°10 | 27°41 | 27°44 | 13°36 | 9°53 | W19 |
| T 20 | 9 59 21 | 1°23'28 | 13♒18 | 12°48 | 18°40 | 17°53 | 5°17 | 29°57 | 24° 2 | 6°13 | 18°10 | 27°30 | 27°41 | 13°43 | 9°58 | T 20 |
| F 21 | 10 3 17 | 2°23'48 | 27°24 | 12°33 | 18°11 | 18°37 | 5°11 | 29°56 | 24° 5 | 6°14 | 18°10 | 27°18 | 27°38 | 13°50 | 10° 2 | F 21 |
| S 22 | 10 7 14 | 3°24'07 | 11♓14 | 12°24 | 17°45 | 19°22 | 5° 5 | 29°55 | 24° 8 | 6°16 | 18° 9 | 27° 5 | 27°35 | 13°56 | 10° 7 | S 22 |
| S 23 | 10 11 10 | 4°24'24 | 24°45 | 12°D23 | 17°21 | 20° 7 | 4°58 | 29°53 | 24°11 | 6°17 | 18° 9 | 26°53 | 27°32 | 14° 3 | 10°11 | S 23 |
| M24 | 10 15 7 | 5°24'39 | 7♈54 | 12°28 | 16°59 | 20°52 | 4°52 | 29°52 | 24°14 | 6°19 | 18° 9 | 26°43 | 27°28 | 14°10 | 10°15 | M24 |
| T 25 | 10 19 4 | 6°24'52 | 20°41 | 12°39 | 16°39 | 21°36 | 4°47 | 29°50 | 24°17 | 6°20 | 18° 9 | 26°36 | 27°25 | 14°16 | 10°19 | T 25 |
| W26 | 10 23 0 | 7°25'03 | 3♉ 8 | 12°57 | 16°22 | 22°21 | 4°41 | 29°48 | 24°20 | 6°21 | 18° 9 | 26°31 | 27°22 | 14°23 | 10°23 | W26 |
| T 27 | 10 26 57 | 8°25'12 | 15°17 | 13°19 | 16° 7 | 23° 6 | 4°35 | 29°46 | 24°23 | 6°23 | 18° 9 | 26°29 | 27°19 | 14°30 | 10°27 | T 27 |
| F 28 | 10 30 53 | 9♓25'18 | 27♉14 | 13♒47 | 15♒54 | 23♉51 | 4♌30 | 29♎44 | 24♉25 | 6♉24 | 18♊ 9 | 26°D29 | 27♏16 | 14♊36 | 10♉31 | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 17s10 | 20n18 | 0s 9 | 10s29 | 1n58 | 5s29 | 6n40 | 23s55 | 0s30 | 19n13 | 0n51 | 9s 7 | 2n34 | 21s59 | 0s28 | 22s24 | 0n58 | 15n 4 | 7s55 | 20s 6 | 19s54 | 21n 4 | 17s 8 | 6n 5 | S 1 |
| S 2 | 16 53 | 21 14 | 1 11 | 10 15 | 2 15 | 5 26 | 6 52 | 23 55 | 0 31 | 19 15 | 0 51 | 9 7 | 2 34 | 21 58 | 0 28 | 22 23 | 0 58 | 15 4 | 7 55 | 20 6 | 19 54 | 21 4 | 17 8 | 6 6 | S 2 |
| M 3 | 16 35 | 21 13 | 2 10 | 10 6 | 2 31 | 5 24 | 7 5 | 23 54 | 0 31 | 19 17 | 0 51 | 9 7 | 2 34 | 21 58 | 0 28 | 22 23 | 0 58 | 15 5 | 7 55 | 20 5 | 19 53 | 21 5 | 17 7 | 6 6 | M 3 |
| T 4 | 16 18 | 20 15 | 3 4 | 10 0 | 2 46 | 5 22 | 7 16 | 23 53 | 0 32 | 19 19 | 0 51 | 9 6 | 2 35 | 21 57 | 0 28 | 22 23 | 0 58 | 15 5 | 7 55 | 20 4 | 19 52 | 21 5 | 17 6 | 6 6 | T 4 |
| W 5 | 16 0 | 18 20 | 3 50 | 10 0 | 3 0 | 5 23 | 7 27 | 23 51 | 0 33 | 19 21 | 0 51 | 9 6 | 2 35 | 21 57 | 0 28 | 22 23 | 0 58 | 15 5 | 7 55 | 20 2 | 19 51 | 21 5 | 17 6 | 6 7 | W 5 |
| T 6 | 15 41 | 15 34 | 4 26 | 10 3 | 3 13 | 5 24 | 7 38 | 23 50 | 0 34 | 19 23 | 0 51 | 9 6 | 2 35 | 21 56 | 0 28 | 22 23 | 0 58 | 15 5 | 7 54 | 20 0 | 19 51 | 21 5 | 17 5 | 6 7 | T 6 |
| F 7 | 15 23 | 12 2 | 4 50 | 10 11 | 3 23 | 5 26 | 7 47 | 23 48 | 0 34 | 19 25 | 0 51 | 9 6 | 2 35 | 21 55 | 0 28 | 22 23 | 0 58 | 15 5 | 7 54 | 19 57 | 19 50 | 21 5 | 17 4 | 6 7 | F 7 |
| S 8 | 15 4 | 7 53 | 5 0 | 10 23 | 3 32 | 5 29 | 7 56 | 23 46 | 0 35 | 19 27 | 0 51 | 9 6 | 2 36 | 21 55 | 0 28 | 22 23 | 0 58 | 15 5 | 7 54 | 19 54 | 19 49 | 21 5 | 17 4 | 6 8 | S 8 |
| S 9 | 14 45 | 3 19 | 4 55 | 10 38 | 3 38 | 5 33 | 8 4 | 23 43 | 0 36 | 19 29 | 0 52 | 9 5 | 2 36 | 21 54 | 0 28 | 22 23 | 0 58 | 15 5 | 7 54 | 19 51 | 19 49 | 21 5 | 17 3 | 6 8 | S 9 |
| M10 | 14 25 | 1s28 | 4 33 | 10 55 | 3 42 | 5 39 | 8 11 | 23 41 | 0 37 | 19 31 | 0 52 | 9 5 | 2 36 | 21 54 | 0 28 | 22 23 | 0 58 | 15 6 | 7 54 | 19 49 | 19 48 | 21 5 | 17 2 | 6 8 | M10 |
| T 11 | 14 6 | 6 16 | 3 56 | 11 15 | 3 44 | 5 45 | 8 17 | 23 38 | 0 37 | 19 33 | 0 52 | 9 5 | 2 36 | 21 53 | 0 28 | 22 23 | 0 58 | 15 6 | 7 53 | 19 47 | 19 47 | 21 5 | 17 1 | 6 9 | T 11 |
| W12 | 13 46 | 10 48 | 3 5 | 11 37 | 3 43 | 5 52 | 8 23 | 23 35 | 0 38 | 19 35 | 0 52 | 9 4 | 2 37 | 21 53 | 0 28 | 22 23 | 0 58 | 15 6 | 7 53 | 19 45 | 19 46 | 21 5 | 17 1 | 6 9 | W12 |
| T 13 | 13 26 | 14 49 | 2 3 | 12 0 | 3 41 | 5 59 | 8 27 | 23 31 | 0 39 | 19 37 | 0 52 | 9 4 | 2 37 | 21 52 | 0 29 | 22 22 | 0 58 | 15 6 | 7 53 | 19 45 | 19 46 | 21 5 | 17 0 | 6 10 | T 13 |
| F 14 | 13 6 | 18 3 | 0 53 | 12 23 | 3 36 | 6 8 | 8 30 | 23 28 | 0 40 | 19 39 | 0 52 | 9 3 | 2 37 | 21 52 | 0 29 | 22 22 | 0 58 | 15 6 | 7 53 | 19 44 | 19 45 | 21 5 | 16 59 | 6 10 | F 14 |
| S 15 | 12 45 | 20 15 | 0n21 | 12 47 | 3 29 | 6 17 | 8 33 | 23 24 | 0 40 | 19 41 | 0 52 | 9 3 | 2 37 | 21 51 | 0 29 | 22 22 | 0 58 | 15 7 | 7 53 | 19 44 | 19 44 | 21 5 | 16 59 | 6 11 | S 15 |
| S 16 | 12 25 | 21 11 | 1 35 | 13 9 | 3 21 | 6 27 | 8 34 | 23 20 | 0 41 | 19 43 | 0 52 | 9 2 | 2 38 | 21 51 | 0 29 | 22 22 | 0 58 | 15 7 | 7 52 | 19 44 | 19 44 | 21 5 | 16 58 | 6 11 | S 16 |
| M17 | 12 4 | 20 46 | 2 42 | 13 32 | 3 11 | 6 37 | 8 35 | 23 15 | 0 42 | 19 44 | 0 52 | 9 2 | 2 38 | 21 50 | 0 29 | 22 22 | 0 58 | 15 7 | 7 52 | 19 44 | 19 43 | 21 5 | 16 57 | 6 11 | M17 |
| T 18 | 11 43 | 19 1 | 3 40 | 13 53 | 3 0 | 6 47 | 8 34 | 23 11 | 0 43 | 19 46 | 0 52 | 9 1 | 2 38 | 21 50 | 0 29 | 22 22 | 0 58 | 15 7 | 7 52 | 19 43 | 19 42 | 21 4 | 16 56 | 6 12 | T 18 |
| W19 | 11 21 | 16 5 | 4 24 | 14 12 | 2 48 | 6 58 | 8 33 | 23 6 | 0 43 | 19 48 | 0 52 | 9 1 | 2 38 | 21 49 | 0 29 | 22 22 | 0 58 | 15 7 | 7 52 | 19 41 | 19 41 | 21 4 | 16 56 | 6 12 | W19 |
| T 20 | 11 0 | 12 12 | 4 51 | 14 30 | 2 36 | 7 9 | 8 31 | 23 1 | 0 44 | 19 49 | 0 52 | 9 0 | 2 39 | 21 49 | 0 29 | 22 22 | 0 58 | 15 7 | 7 52 | 19 38 | 19 41 | 21 4 | 16 55 | 6 13 | T 20 |
| F 21 | 10 38 | 7 42 | 5 0 | 14 47 | 2 23 | 7 21 | 8 28 | 22 56 | 0 45 | 19 51 | 0 52 | 8 59 | 2 39 | 21 48 | 0 29 | 22 22 | 0 58 | 15 8 | 7 51 | 19 35 | 19 40 | 21 4 | 16 54 | 6 13 | F 21 |
| S 22 | 10 17 | 2 52 | 4 51 | 15 2 | 2 10 | 7 32 | 8 24 | 22 50 | 0 46 | 19 53 | 0 52 | 8 59 | 2 39 | 21 48 | 0 29 | 22 22 | 0 58 | 15 8 | 7 51 | 19 33 | 19 39 | 21 4 | 16 53 | 6 14 | S 22 |
| S 23 | 9 55 | 1n59 | 4 26 | 15 15 | 1 56 | 7 44 | 8 19 | 22 44 | 0 47 | 19 54 | 0 52 | 8 58 | 2 39 | 21 47 | 0 29 | 22 22 | 0 58 | 15 8 | 7 51 | 19 30 | 19 39 | 21 4 | 16 52 | 6 14 | S 23 |
| M24 | 9 33 | 6 37 | 3 47 | 15 27 | 1 43 | 7 55 | 8 14 | 22 38 | 0 47 | 19 56 | 0 52 | 8 57 | 2 40 | 21 47 | 0 29 | 22 22 | 0 58 | 15 8 | 7 51 | 19 27 | 19 38 | 21 4 | 16 52 | 6 15 | M24 |
| T 25 | 9 10 | 10 50 | 2 58 | 15 36 | 1 30 | 8 7 | 8 8 | 22 32 | 0 48 | 19 57 | 0 52 | 8 56 | 2 40 | 21 46 | 0 29 | 22 21 | 0 58 | 15 8 | 7 50 | 19 26 | 19 37 | 21 4 | 16 51 | 6 15 | T 25 |
| W26 | 8 48 | 14 28 | 2 1 | 15 44 | 1 16 | 8 18 | 8 1 | 22 26 | 0 49 | 19 58 | 0 52 | 8 55 | 2 40 | 21 46 | 0 29 | 22 21 | 0 58 | 15 9 | 7 50 | 19 25 | 19 36 | 21 4 | 16 50 | 6 16 | W26 |
| T 27 | 8 26 | 17 23 | 0 59 | 15 50 | 1 3 | 8 29 | 7 54 | 22 19 | 0 50 | 20 0 | 0 52 | 8 54 | 2 40 | 21 45 | 0 29 | 22 21 | 0 59 | 15 9 | 7 50 | 19 24 | 19 36 | 21 4 | 16 49 | 6 16 | T 27 |
| F 28 | 8s 3 | 19n31 | 0s 4 | 15s55 | 0n51 | 8s40 | 7n47 | 22s12 | 0s50 | 20n 1 | 0n52 | 8s54 | 2n41 | 21s45 | 0s29 | 22s21 | 0n59 | 15n 9 | 7s50 | 19s24 | 19s35 | 21n 4 | 16s48 | 6n17 | F 28 |

Julian Day Number = 2327028.5, Delta T = 37.01 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'54, Lahiri = 19°05'55Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## MARCH 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 34 50 | 10♓25'23 | 9♊ 4 | 14♒19 | 15°R44 | 24♉35 | 4°R24 | 29°R42 | 24♉28 | 6♉25 | 18°R 9 | 26°R29 | 27♏12 | 14♊43 | 10♉35 | S 1 |
| S 2 | 10 38 46 | 11°25'26 | 20°52 | 14°56 | 15♒36 | 25°20 | 4♌19 | 29♎40 | 24°31 | 6°26 | 18°D 9 | 26♏29 | 27° 9 | 14°50 | 10°39 | S 2 |
| M 3 | 10 42 43 | 12°25'26 | 2♋44 | 15°36 | 15°31 | 26° 5 | 4°14 | 29°37 | 24°33 | 6°28 | 18♊ 9 | 26°27 | 27° 6 | 14°56 | 10°43 | M 3 |
| T 4 | 10 46 39 | 13°25'25 | 14°45 | 16°21 | 15°29 | 26°50 | 4° 9 | 29°35 | 24°36 | 6°29 | 18° 9 | 26°22 | 27° 3 | 15° 3 | 10°46 | T 4 |
| W 5 | 10 50 36 | 14°25'21 | 26°59 | 17° 9 | 15°D28 | 27°35 | 4° 5 | 29°33 | 24°39 | 6°30 | 18° 9 | 26°16 | 27° 0 | 15° 9 | 10°50 | W 5 |
| T 6 | 10 54 32 | 15°25'15 | 9♌29 | 18° 1 | 15°30 | 28°20 | 4° 0 | 29°30 | 24°41 | 6°31 | 18° 9 | 26° 6 | 26°57 | 15°16 | 10°54 | T 6 |
| F 7 | 10 58 29 | 16°25'07 | 22°19 | 18°56 | 15°35 | 29° 5 | 3°56 | 29°27 | 24°44 | 6°32 | 18° 9 | 25°55 | 26°53 | 15°23 | 10°57 | F 7 |
| S 8 | 11 2 26 | 17°24'56 | 5♍27 | 19°53 | 15°42 | 29°50 | 3°52 | 29°25 | 24°46 | 6°33 | 18° 9 | 25°44 | 26°50 | 15°29 | 11° 0 | S 8 |
| S 9 | 11 6 22 | 18°24'44 | 18°54 | 20°54 | 15°51 | 0♒35 | 3°48 | 29°22 | 24°49 | 6°34 | 18° 9 | 25°32 | 26°47 | 15°36 | 11° 4 | S 9 |
| M10 | 11 10 19 | 19°24'30 | 2♎36 | 21°57 | 16° 2 | 1°20 | 3°44 | 29°19 | 24°51 | 6°35 | 18° 9 | 25°22 | 26°44 | 15°43 | 11° 7 | M10 |
| T 11 | 11 14 15 | 20°24'13 | 16°31 | 23° 2 | 16°15 | 2° 5 | 3°40 | 29°16 | 24°53 | 6°36 | 18° 9 | 25°14 | 26°41 | 15°49 | 11°10 | T 11 |
| W12 | 11 18 12 | 21°23'55 | 0♏33 | 24°10 | 16°31 | 2°50 | 3°37 | 29°13 | 24°56 | 6°37 | 18°10 | 25° 9 | 26°38 | 15°56 | 11°13 | W12 |
| T 13 | 11 22 8 | 22°23'35 | 14°40 | 25°19 | 16°48 | 3°35 | 3°34 | 29°10 | 24°58 | 6°38 | 18°10 | 25° 7 | 26°34 | 16° 3 | 11°16 | T 13 |
| F 14 | 11 26 5 | 23°23'14 | 28°49 | 26°31 | 17° 7 | 4°20 | 3°31 | 29° 7 | 25° 0 | 6°39 | 18°10 | 25°D 6 | 26°31 | 16° 9 | 11°19 | F 14 |
| S 15 | 11 30 1 | 24°22'51 | 12♐58 | 27°45 | 17°29 | 5° 5 | 3°28 | 29° 3 | 25° 2 | 6°40 | 18°10 | 25° 7 | 26°28 | 16°16 | 11°22 | S 15 |
| S 16 | 11 33 58 | 25°22'26 | 27° 6 | 29° 1 | 17°52 | 5°51 | 3°25 | 29° 0 | 25° 5 | 6°40 | 18°11 | 25°R 7 | 26°25 | 16°23 | 11°25 | S 16 |
| M17 | 11 37 55 | 26°21'59 | 11♑10 | 0♓19 | 18°17 | 6°36 | 3°23 | 28°57 | 25° 7 | 6°41 | 18°11 | 25° 6 | 26°22 | 16°29 | 11°28 | M17 |
| T 18 | 11 41 51 | 27°21'31 | 25°12 | 1°38 | 18°43 | 7°21 | 3°20 | 28°53 | 25° 9 | 6°42 | 18°11 | 25° 3 | 26°18 | 16°36 | 11°31 | T 18 |
| W19 | 11 45 48 | 28°21'00 | 9♒ 7 | 3° 0 | 19°11 | 8° 6 | 3°18 | 28°49 | 25°11 | 6°43 | 18°12 | 24°58 | 26°15 | 16°43 | 11°33 | W19 |
| T 20 | 11 49 44 | 29°20'28 | 22°56 | 4°22 | 19°41 | 8°51 | 3°16 | 28°46 | 25°13 | 6°43 | 18°12 | 24°50 | 26°12 | 16°49 | 11°36 | T 20 |
| F 21 | 11 53 41 | 0♈19'54 | 6♓34 | 5°47 | 20°12 | 9°37 | 3°14 | 28°42 | 25°15 | 6°44 | 18°12 | 24°41 | 26° 9 | 16°56 | 11°38 | F 21 |
| S 22 | 11 57 37 | 1°19'18 | 19°59 | 7°13 | 20°45 | 10°22 | 3°13 | 28°38 | 25°17 | 6°44 | 18°13 | 24°31 | 26° 6 | 17° 3 | 11°41 | S 22 |
| S 23 | 12 1 34 | 2°18'40 | 3♈ 9 | 8°40 | 21°19 | 11° 7 | 3°11 | 28°35 | 25°19 | 6°45 | 18°13 | 24°22 | 26° 3 | 17° 9 | 11°43 | S 23 |
| M24 | 12 5 30 | 3°18'00 | 16° 3 | 10° 9 | 21°54 | 11°53 | 3°10 | 28°31 | 25°21 | 6°46 | 18°14 | 24°15 | 25°59 | 17°16 | 11°45 | M24 |
| T 25 | 12 9 27 | 4°17'18 | 28°40 | 11°40 | 22°31 | 12°38 | 3° 9 | 28°27 | 25°22 | 6°46 | 18°14 | 24° 9 | 25°56 | 17°23 | 11°47 | T 25 |
| W26 | 12 13 24 | 5°16'34 | 11♉ 0 | 13°12 | 23° 8 | 13°23 | 3° 8 | 28°23 | 25°24 | 6°46 | 18°15 | 24° 6 | 25°53 | 17°29 | 11°49 | W26 |
| T 27 | 12 17 20 | 6°15'47 | 23° 7 | 14°45 | 23°47 | 14° 8 | 3° 8 | 28°19 | 25°26 | 6°47 | 18°15 | 24°D 5 | 25°50 | 17°36 | 11°51 | T 27 |
| F 28 | 12 21 17 | 7°14'59 | 5♊ 4 | 16°20 | 24°28 | 14°54 | 3° 7 | 28°15 | 25°27 | 6°47 | 18°16 | 24° 6 | 25°47 | 17°43 | 11°53 | F 28 |
| S 29 | 12 25 13 | 8°14'08 | 16°54 | 17°57 | 25° 9 | 15°39 | 3° 7 | 28°11 | 25°29 | 6°48 | 18°16 | 24° 7 | 25°43 | 17°49 | 11°55 | S 29 |
| S 30 | 12 29 10 | 9°13'14 | 28°42 | 19°34 | 25°51 | 16°24 | 3°D 7 | 28° 6 | 25°31 | 6°48 | 18°17 | 24° 9 | 25°40 | 17°56 | 11°57 | S 30 |
| M31 | 12 33 6 | 10♈12'19 | 10♋34 | 21♓14 | 26♒34 | 17♒10 | 3♌ 7 | 28♎ 2 | 25♉32 | 6♉48 | 18♊18 | 24°R 9 | 25♏37 | 18♊ 2 | 11♉59 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s40 | 20n45 | 1s 6 | 15s57 | 0n38 | 8s50 | 7n39 | 22s 5 | 0s51 | 20n 2 | 0n52 | 8s53 | 2n41 | 21s44 | 0s29 | 22s21 | 0n59 | 15n 9 | 7s50 | 19s24 | 19s34 | 21n 4 | 16s48 | 6n17 |
| S 2 | 7 18 | 21 5 | 2 6 | 15 58 | 0 26 | 9 1 | 7 30 | 21 58 | 0 52 | 20 4 | 0 52 | 8 52 | 2 41 | 21 44 | 0 29 | 22 21 | 0 59 | 15 10 | 7 49 | 19 24 | 19 34 | 21 4 | 16 47 | 6 18 |
| M 3 | 6 55 | 20 27 | 3 0 | 15 58 | 0 14 | 9 11 | 7 21 | 21 50 | 0 53 | 20 5 | 0 52 | 8 51 | 2 41 | 21 43 | 0 29 | 22 21 | 0 59 | 15 10 | 7 49 | 19 24 | 19 33 | 21 4 | 16 46 | 6 18 |
| T 4 | 6 32 | 18 54 | 3 47 | 15 55 | 0 3 | 9 20 | 7 12 | 21 42 | 0 53 | 20 6 | 0 52 | 8 50 | 2 41 | 21 43 | 0 29 | 22 21 | 0 59 | 15 10 | 7 49 | 19 23 | 19 32 | 21 3 | 16 45 | 6 19 |
| W 5 | 6 9 | 16 29 | 4 24 | 15 51 | 0s 8 | 9 29 | 7 3 | 21 34 | 0 54 | 20 7 | 0 52 | 8 49 | 2 42 | 21 43 | 0 29 | 22 21 | 0 59 | 15 10 | 7 49 | 19 21 | 19 31 | 21 3 | 16 45 | 6 19 |
| T 6 | 5 45 | 13 15 | 4 50 | 15 46 | 0 19 | 9 38 | 6 53 | 21 26 | 0 55 | 20 8 | 0 52 | 8 47 | 2 42 | 21 42 | 0 29 | 22 21 | 0 59 | 15 10 | 7 49 | 19 19 | 19 31 | 21 3 | 16 44 | 6 20 |
| F 7 | 5 22 | 9 20 | 5 2 | 15 39 | 0 29 | 9 46 | 6 43 | 21 17 | 0 56 | 20 9 | 0 52 | 8 46 | 2 42 | 21 42 | 0 29 | 22 21 | 0 59 | 15 11 | 7 48 | 19 16 | 19 30 | 21 3 | 16 43 | 6 20 |
| S 8 | 4 59 | 4 54 | 4 58 | 15 30 | 0 39 | 9 54 | 6 33 | 21 9 | 0 56 | 20 10 | 0 52 | 8 45 | 2 42 | 21 41 | 0 29 | 22 21 | 0 59 | 15 11 | 7 48 | 19 13 | 19 29 | 21 3 | 16 42 | 6 21 |
| S 9 | 4 35 | 0 8 | 4 38 | 15 20 | 0 49 | 10 1 | 6 23 | 21 0 | 0 57 | 20 11 | 0 52 | 8 44 | 2 42 | 21 41 | 0 29 | 22 21 | 0 59 | 15 11 | 7 48 | 19 11 | 19 28 | 21 3 | 16 41 | 6 21 |
| M10 | 4 12 | 4s44 | 4 2 | 15 8 | 0 58 | 10 7 | 6 13 | 20 50 | 0 58 | 20 12 | 0 52 | 8 43 | 2 43 | 21 40 | 0 29 | 22 20 | 0 59 | 15 11 | 7 48 | 19 8 | 19 28 | 21 3 | 16 40 | 6 22 |
| T 11 | 3 49 | 9 26 | 3 10 | 14 54 | 1 6 | 10 13 | 6 3 | 20 41 | 0 59 | 20 13 | 0 52 | 8 42 | 2 43 | 21 40 | 0 29 | 22 20 | 0 59 | 15 12 | 7 47 | 19 6 | 19 27 | 21 3 | 16 40 | 6 22 |
| W12 | 3 25 | 13 40 | 2 7 | 14 40 | 1 14 | 10 19 | 5 52 | 20 32 | 1 0 | 20 13 | 0 52 | 8 40 | 2 43 | 21 40 | 0 29 | 22 20 | 0 59 | 15 12 | 7 47 | 19 5 | 19 26 | 21 3 | 16 39 | 6 23 |
| T 13 | 3 1 | 17 9 | 0 55 | 14 23 | 1 22 | 10 24 | 5 42 | 20 22 | 1 0 | 20 14 | 0 52 | 8 39 | 2 43 | 21 39 | 0 29 | 22 20 | 0 59 | 15 12 | 7 47 | 19 5 | 19 25 | 21 2 | 16 38 | 6 23 |
| F 14 | 2 38 | 19 37 | 0n20 | 14 6 | 1 29 | 10 28 | 5 31 | 20 12 | 1 1 | 20 15 | 0 52 | 8 38 | 2 43 | 21 39 | 0 29 | 22 20 | 0 59 | 15 12 | 7 47 | 19 5 | 19 25 | 21 2 | 16 37 | 6 24 |
| S 15 | 2 14 | 20 50 | 1 34 | 13 47 | 1 36 | 10 31 | 5 21 | 20 2 | 1 2 | 20 15 | 0 52 | 8 36 | 2 44 | 21 38 | 0 29 | 22 20 | 0 59 | 15 13 | 7 47 | 19 5 | 19 24 | 21 2 | 16 36 | 6 25 |
| S 16 | 1 51 | 20 45 | 2 42 | 13 26 | 1 42 | 10 34 | 5 10 | 19 51 | 1 3 | 20 16 | 0 52 | 8 35 | 2 44 | 21 38 | 0 29 | 22 20 | 0 59 | 15 13 | 7 46 | 19 5 | 19 23 | 21 2 | 16 36 | 6 25 |
| M17 | 1 27 | 19 21 | 3 41 | 13 4 | 1 48 | 10 37 | 5 0 | 19 41 | 1 3 | 20 17 | 0 52 | 8 34 | 2 44 | 21 38 | 0 29 | 22 20 | 0 59 | 15 13 | 7 46 | 19 5 | 19 22 | 21 2 | 16 35 | 6 26 |
| T 18 | 1 3 | 16 47 | 4 25 | 12 41 | 1 54 | 10 39 | 4 50 | 19 30 | 1 4 | 20 17 | 0 52 | 8 32 | 2 44 | 21 37 | 0 29 | 22 20 | 0 59 | 15 13 | 7 46 | 19 4 | 19 22 | 21 2 | 16 34 | 6 26 |
| W19 | 0 39 | 13 17 | 4 54 | 12 16 | 1 59 | 10 40 | 4 39 | 19 19 | 1 5 | 20 18 | 0 52 | 8 31 | 2 44 | 21 37 | 0 29 | 22 20 | 0 59 | 15 13 | 7 46 | 19 2 | 19 21 | 21 1 | 16 33 | 6 27 |
| T 20 | 0 16 | 9 5 | 5 5 | 11 50 | 2 3 | 10 41 | 4 29 | 19 8 | 1 6 | 20 18 | 0 52 | 8 30 | 2 44 | 21 37 | 0 29 | 22 20 | 0 59 | 15 14 | 7 45 | 19 1 | 19 20 | 21 1 | 16 33 | 6 27 |
| F 21 | 0n 8 | 4 29 | 4 59 | 11 23 | 2 8 | 10 41 | 4 19 | 18 56 | 1 6 | 20 18 | 0 52 | 8 28 | 2 44 | 21 36 | 0 29 | 22 20 | 0 59 | 15 14 | 7 45 | 18 58 | 19 19 | 21 1 | 16 32 | 6 28 |
| S 22 | 0 32 | 0n16 | 4 36 | 10 54 | 2 11 | 10 40 | 4 9 | 18 45 | 1 7 | 20 19 | 0 52 | 8 27 | 2 45 | 21 36 | 0 29 | 22 20 | 0 59 | 15 14 | 7 45 | 18 56 | 19 19 | 21 1 | 16 31 | 6 29 |
| S 23 | 0 55 | 4 55 | 3 59 | 10 25 | 2 14 | 10 39 | 3 59 | 18 33 | 1 8 | 20 19 | 0 52 | 8 25 | 2 45 | 21 36 | 0 29 | 22 20 | 0 59 | 15 14 | 7 45 | 18 54 | 19 18 | 21 1 | 16 30 | 6 29 |
| M24 | 1 19 | 9 15 | 3 10 | 9 53 | 2 17 | 10 37 | 3 49 | 18 21 | 1 9 | 20 19 | 0 52 | 8 24 | 2 45 | 21 35 | 0 29 | 22 20 | 0 59 | 15 15 | 7 45 | 18 52 | 19 17 | 21 1 | 16 29 | 6 30 |
| T 25 | 1 42 | 13 5 | 2 13 | 9 21 | 2 20 | 10 35 | 3 39 | 18 9 | 1 9 | 20 19 | 0 52 | 8 22 | 2 45 | 21 35 | 0 29 | 22 20 | 0 59 | 15 15 | 7 44 | 18 51 | 19 16 | 21 0 | 16 29 | 6 30 |
| W26 | 2 6 | 16 16 | 1 10 | 8 47 | 2 21 | 10 32 | 3 30 | 17 57 | 1 10 | 20 20 | 0 52 | 8 21 | 2 45 | 21 35 | 0 30 | 22 19 | 0 59 | 15 15 | 7 44 | 18 50 | 19 16 | 21 0 | 16 28 | 6 31 |
| T 27 | 2 29 | 18 40 | 0 5 | 8 12 | 2 23 | 10 28 | 3 20 | 17 45 | 1 11 | 20 20 | 0 51 | 8 19 | 2 45 | 21 35 | 0 30 | 22 19 | 0 59 | 15 15 | 7 44 | 18 50 | 19 15 | 21 0 | 16 27 | 6 32 |
| F 28 | 2 53 | 20 13 | 0s59 | 7 36 | 2 24 | 10 24 | 3 10 | 17 32 | 1 11 | 20 20 | 0 51 | 8 18 | 2 45 | 21 34 | 0 30 | 22 19 | 0 59 | 15 16 | 7 44 | 18 50 | 19 14 | 21 0 | 16 26 | 6 32 |
| S 29 | 3 16 | 20 50 | 2 0 | 6 59 | 2 24 | 10 19 | 3 1 | 17 19 | 1 12 | 20 20 | 0 51 | 8 16 | 2 45 | 21 34 | 0 30 | 22 19 | 0 59 | 15 16 | 7 44 | 18 50 | 19 13 | 20 59 | 16 26 | 6 33 |
| S 30 | 3 40 | 20 32 | 2 56 | 6 20 | 2 24 | 10 14 | 2 52 | 17 6 | 1 13 | 20 20 | 0 51 | 8 15 | 2 46 | 21 34 | 0 30 | 22 19 | 0 59 | 15 16 | 7 43 | 18 50 | 19 13 | 20 59 | 16 25 | 6 33 |
| M31 | 4n 3 | 19n19 | 3s45 | 5s41 | 2s23 | 10s 8 | 2n43 | 16s53 | 1s14 | 20n20 | 0n51 | 8s13 | 2n46 | 21s34 | 0s30 | 22s19 | 0n59 | 15n17 | 7s43 | 18s51 | 19s12 | 20n59 | 16s24 | 6n34 |

Julian Day Number = 2327056.5, Delta T = 36.96 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°58'58, Lahiri = 19°05'59Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## APRIL 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 37 3 | 11♈11'21 | 22♋35 | 22♓54 | 27♒18 | 17♒55 | 3♌ 7 | 27°R58 | 25♑34 | 6♑49 | 18♊18 | 24°R 8 | 25♏34 | 18♊ 9 | 12♑ 0 | T 1 |
| W 2 | 12 40 59 | 12°10'21 | 4♌50 | 24°37 | 28° 3 | 18°40 | 3° 8 | 27♎54 | 25°35 | 6°49 | 18°19 | 24♏ 6 | 25°31 | 18°16 | 12° 2 | W 2 |
| T 3 | 12 44 56 | 13° 9'18 | 17°23 | 26°20 | 28°49 | 19°26 | 3° 9 | 27°49 | 25°36 | 6°49 | 18°20 | 24° 2 | 25°28 | 18°22 | 12° 3 | T 3 |
| F 4 | 12 48 53 | 14° 8'13 | 0♍17 | 28° 5 | 29°36 | 20°11 | 3°10 | 27°45 | 25°38 | 6°49 | 18°20 | 23°56 | 25°24 | 18°29 | 12° 4 | F 4 |
| S 5 | 12 52 49 | 15° 7'06 | 13°34 | 29°52 | 0♓24 | 20°56 | 3°11 | 27°41 | 25°39 | 6°49 | 18°21 | 23°50 | 25°21 | 18°36 | 12° 6 | S 5 |
| S 6 | 12 56 46 | 16° 5'57 | 27°14 | 1♈40 | 1°12 | 21°42 | 3°12 | 27°36 | 25°40 | 6°49 | 18°22 | 23°43 | 25°18 | 18°42 | 12° 7 | S 6 |
| M 7 | 13 0 42 | 17° 4'46 | 11♎15 | 3°30 | 2° 1 | 22°27 | 3°13 | 27°32 | 25°41 | 6°49 | 18°22 | 23°38 | 25°15 | 18°49 | 12° 8 | M 7 |
| T 8 | 13 4 39 | 18° 3'32 | 25°33 | 5°21 | 2°51 | 23°13 | 3°15 | 27°27 | 25°43 | 6°R49 | 18°23 | 23°34 | 25°12 | 18°56 | 12° 9 | T 8 |
| W 9 | 13 8 35 | 19° 2'17 | 10♏ 1 | 7°14 | 3°42 | 23°58 | 3°17 | 27°23 | 25°44 | 6°49 | 18°24 | 23°31 | 25° 9 | 19° 2 | 12°10 | W 9 |
| T 10 | 13 12 32 | 20° 1'00 | 24°35 | 9° 8 | 4°33 | 24°43 | 3°19 | 27°18 | 25°45 | 6°49 | 18°25 | 23°D31 | 25° 5 | 19° 9 | 12°11 | T 10 |
| F 11 | 13 16 28 | 20°59'41 | 9♐ 9 | 11° 3 | 5°25 | 25°29 | 3°21 | 27°14 | 25°46 | 6°49 | 18°26 | 23°32 | 25° 2 | 19°16 | 12°11 | F 11 |
| S 12 | 13 20 25 | 21°58'20 | 23°37 | 13° 1 | 6°18 | 26°14 | 3°23 | 27° 9 | 25°47 | 6°49 | 18°26 | 23°33 | 24°59 | 19°22 | 12°12 | S 12 |
| S 13 | 13 24 21 | 22°56'58 | 7♑56 | 14°59 | 7°11 | 27° 0 | 3°26 | 27° 5 | 25°47 | 6°49 | 18°27 | 23°34 | 24°56 | 19°29 | 12°13 | S 13 |
| M14 | 13 28 18 | 23°55'34 | 22° 4 | 17° 0 | 8° 5 | 27°45 | 3°29 | 27° 0 | 25°48 | 6°49 | 18°28 | 23°R35 | 24°53 | 19°36 | 12°13 | M14 |
| T 15 | 13 32 15 | 24°54'08 | 6♒ 0 | 19° 1 | 8°59 | 28°30 | 3°31 | 26°56 | 25°49 | 6°49 | 18°29 | 23°35 | 24°49 | 19°42 | 12°13 | T 15 |
| W16 | 13 36 11 | 25°52'41 | 19°41 | 21° 4 | 9°54 | 29°16 | 3°34 | 26°51 | 25°50 | 6°49 | 18°30 | 23°33 | 24°46 | 19°49 | 12°14 | W16 |
| T 17 | 13 40 8 | 26°51'12 | 3♓10 | 23° 8 | 10°50 | 0♓ 1 | 3°38 | 26°46 | 25°51 | 6°48 | 18°31 | 23°30 | 24°43 | 19°56 | 12°14 | T 17 |
| F 18 | 13 44 4 | 27°49'41 | 16°24 | 25°14 | 11°45 | 0°46 | 3°41 | 26°42 | 25°51 | 6°48 | 18°32 | 23°26 | 24°40 | 20° 2 | 12°14 | F 18 |
| S 19 | 13 48 1 | 28°48'09 | 29°25 | 27°20 | 12°42 | 1°32 | 3°45 | 26°37 | 25°52 | 6°48 | 18°33 | 23°22 | 24°37 | 20° 9 | 12°R14 | S 19 |
| S 20 | 13 51 57 | 29°46'35 | 12♈12 | 29°28 | 13°39 | 2°17 | 3°48 | 26°33 | 25°52 | 6°47 | 18°34 | 23°19 | 24°34 | 20°16 | 12°14 | S 20 |
| M21 | 13 55 54 | 0♉44'59 | 24°46 | 1♉36 | 14°36 | 3° 3 | 3°52 | 26°28 | 25°53 | 6°47 | 18°35 | 23°16 | 24°30 | 20°22 | 12°14 | M21 |
| T 22 | 13 59 50 | 1°43'21 | 7♉ 8 | 3°44 | 15°34 | 3°48 | 3°56 | 26°24 | 25°53 | 6°46 | 18°36 | 23°14 | 24°27 | 20°29 | 12°14 | T 22 |
| W23 | 14 3 47 | 2°41'42 | 19°18 | 5°53 | 16°32 | 4°33 | 4° 1 | 26°19 | 25°54 | 6°46 | 18°37 | 23°D13 | 24°24 | 20°36 | 12°14 | W23 |
| T 24 | 14 7 44 | 3°40'01 | 1♊18 | 8° 2 | 17°30 | 5°19 | 4° 5 | 26°14 | 25°54 | 6°46 | 18°38 | 23°13 | 24°21 | 20°42 | 12°13 | T 24 |
| F 25 | 14 11 40 | 4°38'17 | 13°11 | 10°11 | 18°29 | 6° 4 | 4°10 | 26°10 | 25°54 | 6°45 | 18°39 | 23°14 | 24°18 | 20°49 | 12°13 | F 25 |
| S 26 | 14 15 37 | 5°36'32 | 25° 0 | 12°19 | 19°29 | 6°49 | 4°15 | 26° 6 | 25°55 | 6°44 | 18°40 | 23°15 | 24°14 | 20°56 | 12°13 | S 26 |
| S 27 | 14 19 33 | 6°34'45 | 6♋49 | 14°27 | 20°28 | 7°34 | 4°19 | 26° 1 | 25°55 | 6°44 | 18°41 | 23°17 | 24°11 | 21° 2 | 12°12 | S 27 |
| M28 | 14 23 30 | 7°32'56 | 18°41 | 16°33 | 21°28 | 8°20 | 4°24 | 25°57 | 25°55 | 6°43 | 18°42 | 23°18 | 24° 8 | 21° 9 | 12°11 | M28 |
| T 29 | 14 27 26 | 8°31'05 | 0♌41 | 18°38 | 22°28 | 9° 5 | 4°30 | 25°52 | 25°55 | 6°43 | 18°43 | 23°19 | 24° 5 | 21°16 | 12°11 | T 29 |
| W30 | 14 31 23 | 9♉29'12 | 12♌55 | 20♉41 | 23♓29 | 9♓50 | 4♌35 | 25♎48 | 25°R55 | 6♑42 | 18♊44 | 23°R19 | 24♏ 2 | 21♊22 | 12♑10 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n26 | 17n14 | 4s25 | 5s 0 | 2s22 | 10s 1 | 2n34 | 16s40 | 1s14 | 20n19 | 0n51 | 8s11 | 2n46 | 21s33 | 0s30 | 22s19 | 0n59 | 15n17 | 7s43 | 18s50 | 19s11 | 20n59 | 16s23 | 6n35 |
| W 2 | 4 49 | 14 21 | 4 53 | 4 18 | 2 21 | 9 54 | 2 25 | 16 27 | 1 15 | 20 19 | 0 51 | 8 10 | 2 46 | 21 33 | 0 30 | 22 19 | 0 59 | 15 17 | 7 43 | 18 50 | 19 10 | 20 59 | 16 23 | 6 35 |
| T 3 | 5 12 | 10 45 | 5 8 | 3 35 | 2 19 | 9 46 | 2 16 | 16 13 | 1 16 | 20 19 | 0 51 | 8 8 | 2 46 | 21 33 | 0 30 | 22 19 | 0 59 | 15 17 | 7 43 | 18 49 | 19 10 | 20 58 | 16 22 | 6 36 |
| F 4 | 5 35 | 6 35 | 5 8 | 2 50 | 2 16 | 9 38 | 2 8 | 15 59 | 1 17 | 20 19 | 0 51 | 8 7 | 2 46 | 21 33 | 0 30 | 22 19 | 0 59 | 15 18 | 7 42 | 18 47 | 19 9 | 20 58 | 16 21 | 6 36 |
| S 5 | 5 58 | 1 58 | 4 52 | 2 5 | 2 13 | 9 29 | 1 59 | 15 46 | 1 17 | 20 18 | 0 51 | 8 5 | 2 46 | 21 32 | 0 30 | 22 19 | 0 59 | 15 18 | 7 42 | 18 46 | 19 8 | 20 58 | 16 20 | 6 37 |
| S 6 | 6 21 | 2s52 | 4 19 | 1 19 | 2 9 | 9 20 | 1 51 | 15 32 | 1 18 | 20 18 | 0 51 | 8 3 | 2 46 | 21 32 | 0 30 | 22 19 | 0 59 | 15 18 | 7 42 | 18 44 | 19 7 | 20 58 | 16 20 | 6 38 |
| M 7 | 6 43 | 7 41 | 3 30 | 0 31 | 2 5 | 9 10 | 1 43 | 15 18 | 1 19 | 20 18 | 0 51 | 8 2 | 2 46 | 21 32 | 0 30 | 22 19 | 0 59 | 15 18 | 7 42 | 18 43 | 19 7 | 20 57 | 16 19 | 6 38 |
| T 8 | 7 6 | 12 10 | 2 27 | 0n17 | 2 1 | 9 0 | 1 35 | 15 3 | 1 19 | 20 17 | 0 51 | 8 0 | 2 46 | 21 32 | 0 30 | 22 19 | 0 59 | 15 19 | 7 42 | 18 42 | 19 6 | 20 57 | 16 18 | 6 39 |
| W 9 | 7 28 | 16 0 | 1 13 | 1 6 | 1 55 | 8 49 | 1 27 | 14 49 | 1 20 | 20 17 | 0 51 | 7 58 | 2 46 | 21 32 | 0 30 | 22 19 | 0 59 | 15 19 | 7 41 | 18 41 | 19 5 | 20 57 | 16 18 | 6 40 |
| T 10 | 7 50 | 18 51 | 0n 6 | 1 57 | 1 50 | 8 38 | 1 19 | 14 34 | 1 21 | 20 16 | 0 51 | 7 57 | 2 46 | 21 31 | 0 30 | 22 19 | 0 59 | 15 19 | 7 41 | 18 41 | 19 4 | 20 57 | 16 17 | 6 40 |
| F 11 | 8 12 | 20 28 | 1 25 | 2 48 | 1 44 | 8 26 | 1 12 | 14 20 | 1 21 | 20 16 | 0 51 | 7 55 | 2 46 | 21 31 | 0 30 | 22 19 | 0 59 | 15 19 | 7 41 | 18 41 | 19 4 | 20 56 | 16 16 | 6 41 |
| S 12 | 8 34 | 20 42 | 2 37 | 3 39 | 1 37 | 8 13 | 1 4 | 14 5 | 1 22 | 20 15 | 0 51 | 7 53 | 2 46 | 21 31 | 0 30 | 22 19 | 1 0 | 15 20 | 7 41 | 18 42 | 19 3 | 20 56 | 16 15 | 6 41 |
| S 13 | 8 56 | 19 35 | 3 40 | 4 32 | 1 30 | 8 1 | 0 57 | 13 50 | 1 23 | 20 14 | 0 50 | 7 52 | 2 46 | 21 31 | 0 30 | 22 19 | 1 0 | 15 20 | 7 41 | 18 42 | 19 2 | 20 56 | 16 15 | 6 42 |
| M14 | 9 18 | 17 16 | 4 28 | 5 25 | 1 22 | 7 47 | 0 50 | 13 35 | 1 23 | 20 14 | 0 50 | 7 50 | 2 46 | 21 31 | 0 30 | 22 19 | 1 0 | 15 20 | 7 40 | 18 42 | 19 1 | 20 55 | 16 14 | 6 43 |
| T 15 | 9 40 | 13 58 | 4 59 | 6 19 | 1 14 | 7 33 | 0 43 | 13 20 | 1 24 | 20 13 | 0 50 | 7 48 | 2 46 | 21 31 | 0 30 | 22 19 | 1 0 | 15 20 | 7 40 | 18 42 | 19 0 | 20 55 | 16 13 | 6 43 |
| W16 | 10 1 | 9 59 | 5 13 | 7 13 | 1 6 | 7 19 | 0 36 | 13 4 | 1 25 | 20 12 | 0 50 | 7 47 | 2 46 | 21 31 | 0 30 | 22 19 | 1 0 | 15 21 | 7 40 | 18 42 | 19 0 | 20 55 | 16 13 | 6 44 |
| T 17 | 10 22 | 5 33 | 5 9 | 8 8 | 0 57 | 7 4 | 0 29 | 12 49 | 1 25 | 20 11 | 0 50 | 7 45 | 2 46 | 21 31 | 0 30 | 22 19 | 1 0 | 15 21 | 7 40 | 18 41 | 18 59 | 20 55 | 16 12 | 6 45 |
| F 18 | 10 43 | 0 56 | 4 49 | 9 2 | 0 48 | 6 49 | 0 22 | 12 33 | 1 26 | 20 11 | 0 50 | 7 44 | 2 46 | 21 31 | 0 30 | 22 19 | 1 0 | 15 21 | 7 40 | 18 40 | 18 58 | 20 54 | 16 12 | 6 45 |
| S 19 | 11 4 | 3n39 | 4 14 | 9 57 | 0 38 | 6 34 | 0 16 | 12 18 | 1 27 | 20 10 | 0 50 | 7 42 | 2 46 | 21 30 | 0 30 | 22 19 | 1 0 | 15 21 | 7 39 | 18 39 | 18 57 | 20 54 | 16 11 | 6 46 |
| S 20 | 11 25 | 8 0 | 3 27 | 10 52 | 0 28 | 6 18 | 0 10 | 12 2 | 1 27 | 20 9 | 0 50 | 7 40 | 2 46 | 21 30 | 0 30 | 22 19 | 1 0 | 15 22 | 7 39 | 18 38 | 18 57 | 20 54 | 16 10 | 6 46 |
| M21 | 11 45 | 11 56 | 2 30 | 11 46 | 0 18 | 6 1 | 0 3 | 11 46 | 1 28 | 20 8 | 0 50 | 7 39 | 2 46 | 21 30 | 0 30 | 22 19 | 1 0 | 15 22 | 7 39 | 18 37 | 18 56 | 20 53 | 16 10 | 6 47 |
| T 22 | 12 6 | 15 18 | 1 28 | 12 40 | 0 7 | 5 45 | 0s 3 | 11 30 | 1 29 | 20 7 | 0 50 | 7 37 | 2 46 | 21 30 | 0 30 | 22 19 | 1 0 | 15 22 | 7 39 | 18 37 | 18 55 | 20 53 | 16 9 | 6 48 |
| W23 | 12 26 | 17 56 | 0 22 | 13 34 | 0n 3 | 5 27 | 0 9 | 11 14 | 1 29 | 20 6 | 0 50 | 7 35 | 2 46 | 21 30 | 0 30 | 22 19 | 1 0 | 15 22 | 7 39 | 18 37 | 18 54 | 20 53 | 16 9 | 6 48 |
| T 24 | 12 46 | 19 44 | 0s45 | 14 26 | 0 14 | 5 10 | 0 14 | 10 58 | 1 30 | 20 5 | 0 50 | 7 34 | 2 46 | 21 30 | 0 30 | 22 19 | 1 0 | 15 23 | 7 39 | 18 37 | 18 53 | 20 52 | 16 8 | 6 49 |
| F 25 | 13 5 | 20 38 | 1 48 | 15 17 | 0 25 | 4 52 | 0 20 | 10 42 | 1 30 | 20 3 | 0 50 | 7 32 | 2 46 | 21 30 | 0 30 | 22 19 | 1 0 | 15 23 | 7 38 | 18 37 | 18 53 | 20 52 | 16 7 | 6 49 |
| S 26 | 13 25 | 20 36 | 2 47 | 16 7 | 0 35 | 4 34 | 0 26 | 10 26 | 1 31 | 20 2 | 0 50 | 7 31 | 2 46 | 21 30 | 0 31 | 22 19 | 1 0 | 15 23 | 7 38 | 18 37 | 18 52 | 20 52 | 16 7 | 6 50 |
| S 27 | 13 44 | 19 40 | 3 39 | 16 56 | 0 46 | 4 15 | 0 31 | 10 10 | 1 32 | 20 1 | 0 50 | 7 29 | 2 46 | 21 30 | 0 31 | 22 19 | 1 0 | 15 23 | 7 38 | 18 38 | 18 51 | 20 51 | 16 6 | 6 51 |
| M28 | 14 3 | 17 52 | 4 21 | 17 43 | 0 56 | 3 56 | 0 36 | 9 53 | 1 32 | 20 0 | 0 50 | 7 28 | 2 46 | 21 30 | 0 31 | 22 19 | 1 0 | 15 24 | 7 38 | 18 38 | 18 50 | 20 51 | 16 6 | 6 51 |
| T 29 | 14 22 | 15 16 | 4 53 | 18 28 | 1 6 | 3 37 | 0 41 | 9 37 | 1 33 | 19 58 | 0 49 | 7 26 | 2 46 | 21 30 | 0 31 | 22 19 | 1 0 | 15 24 | 7 38 | 18 38 | 18 50 | 20 51 | 16 5 | 6 52 |
| W30 | 14n41 | 11n59 | 5s12 | 19n11 | 1n16 | 3s18 | 0s46 | 9s20 | 1s33 | 19n57 | 0n49 | 7s25 | 2n46 | 21s30 | 0s31 | 22s19 | 1n 0 | 15n24 | 7s38 | 18s38 | 18s49 | 20n50 | 16s 5 | 6n52 |

Julian Day Number = 2327087.5, Delta T = 36.90 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'02, Lahiri = 19°06'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## MAY 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 35 19 | 10♉27'17 | 25♌25 | 22♉42 | 24♓30 | 10♓35 | 4♌41 | 25°R43 | 25°R55 | 6°R41 | 18♊46 | 23°R18 | 23♏59 | 21♊29 | 12°R 9 | T 1 |
| F 2 | 14 39 16 | 11°25'20 | 8♍18 | 24°41 | 25°31 | 11°21 | 4°46 | 25♎39 | 25♑55 | 6♑41 | 18°47 | 23♏17 | 23°55 | 21°36 | 12♑ 8 | F 2 |
| S 3 | 14 43 13 | 12°23'21 | 21°34 | 26°38 | 26°33 | 12° 6 | 4°52 | 25°35 | 25°55 | 6°40 | 18°48 | 23°16 | 23°52 | 21°42 | 12° 7 | S 3 |
| S 4 | 14 47 9 | 13°21'20 | 5♎17 | 28°31 | 27°34 | 12°51 | 4°58 | 25°31 | 25°55 | 6°39 | 18°49 | 23°15 | 23°49 | 21°49 | 12° 6 | S 4 |
| M 5 | 14 51 6 | 14°19'17 | 19°24 | 0♊22 | 28°36 | 13°36 | 5° 4 | 25°26 | 25°54 | 6°38 | 18°50 | 23°14 | 23°46 | 21°56 | 12° 4 | M 5 |
| T 6 | 14 55 2 | 15°17'13 | 3♏54 | 2°10 | 29°39 | 14°21 | 5°10 | 25°22 | 25°54 | 6°37 | 18°51 | 23°13 | 23°43 | 22° 2 | 12° 3 | T 6 |
| W 7 | 14 58 59 | 16°15'07 | 18°41 | 3°55 | 0♈41 | 15° 6 | 5°17 | 25°18 | 25°54 | 6°37 | 18°53 | 23°D13 | 23°40 | 22° 9 | 12° 2 | W 7 |
| T 8 | 15 2 55 | 17°13'00 | 3♐37 | 5°37 | 1°44 | 15°51 | 5°23 | 25°14 | 25°54 | 6°36 | 18°54 | 23°13 | 23°36 | 22°16 | 12° 0 | T 8 |
| F 9 | 15 6 52 | 18°10'51 | 18°35 | 7°15 | 2°47 | 16°36 | 5°30 | 25°10 | 25°53 | 6°35 | 18°55 | 23°13 | 23°33 | 22°22 | 11°59 | F 9 |
| S 10 | 15 10 48 | 19° 8'41 | 3♑26 | 8°50 | 3°51 | 17°21 | 5°37 | 25° 6 | 25°53 | 6°34 | 18°56 | 23°13 | 23°30 | 22°29 | 11°57 | S 10 |
| S 11 | 15 14 45 | 20° 6'30 | 18° 5 | 10°22 | 4°54 | 18° 6 | 5°44 | 25° 2 | 25°52 | 6°33 | 18°58 | 23°14 | 23°27 | 22°36 | 11°55 | S 11 |
| M12 | 15 18 42 | 21° 4'17 | 2♒26 | 11°49 | 5°58 | 18°51 | 5°51 | 24°58 | 25°52 | 6°32 | 18°59 | 23°14 | 23°24 | 22°42 | 11°54 | M12 |
| T 13 | 15 22 38 | 22° 2'04 | 16°27 | 13°14 | 7° 2 | 19°36 | 5°58 | 24°54 | 25°51 | 6°31 | 19° 0 | 23°14 | 23°20 | 22°49 | 11°52 | T 13 |
| W14 | 15 26 35 | 22°59'49 | 0♓ 7 | 14°34 | 8° 6 | 20°21 | 6° 6 | 24°51 | 25°50 | 6°30 | 19° 1 | 23°14 | 23°17 | 22°55 | 11°50 | W14 |
| T 15 | 15 30 31 | 23°57'33 | 13°26 | 15°51 | 9°11 | 21° 6 | 6°13 | 24°47 | 25°50 | 6°29 | 19° 3 | 23°14 | 23°14 | 23° 2 | 11°48 | T 15 |
| F 16 | 15 34 28 | 24°55'16 | 26°26 | 17° 4 | 10°15 | 21°51 | 6°21 | 24°43 | 25°49 | 6°28 | 19° 4 | 23°14 | 23°11 | 23° 9 | 11°46 | F 16 |
| S 17 | 15 38 24 | 25°52'57 | 9♈ 9 | 18°14 | 11°20 | 22°36 | 6°28 | 24°40 | 25°48 | 6°27 | 19° 5 | 23°14 | 23° 8 | 23°15 | 11°44 | S 17 |
| S 18 | 15 42 21 | 26°50'38 | 21°38 | 19°19 | 12°25 | 23°20 | 6°36 | 24°36 | 25°47 | 6°25 | 19° 7 | 23°15 | 23° 5 | 23°22 | 11°42 | S 18 |
| M19 | 15 46 17 | 27°48'18 | 3♉54 | 20°21 | 13°30 | 24° 5 | 6°44 | 24°33 | 25°46 | 6°24 | 19° 8 | 23°15 | 23° 1 | 23°29 | 11°39 | M19 |
| T 20 | 15 50 14 | 28°45'56 | 16° 1 | 21°19 | 14°36 | 24°50 | 6°52 | 24°29 | 25°46 | 6°23 | 19° 9 | 23°15 | 22°58 | 23°35 | 11°37 | T 20 |
| W21 | 15 54 11 | 29°43'34 | 28° 0 | 22°12 | 15°41 | 25°35 | 7° 1 | 24°26 | 25°45 | 6°22 | 19°11 | 23°R15 | 22°55 | 23°42 | 11°35 | W21 |
| T 22 | 15 58 7 | 0♊41'10 | 9♊54 | 23° 2 | 16°47 | 26°19 | 7° 9 | 24°23 | 25°44 | 6°21 | 19°12 | 23°15 | 22°52 | 23°49 | 11°32 | T 22 |
| F 23 | 16 2 4 | 1°38'45 | 21°43 | 23°47 | 17°53 | 27° 4 | 7°17 | 24°20 | 25°42 | 6°19 | 19°13 | 23°14 | 22°49 | 23°55 | 11°30 | F 23 |
| S 24 | 16 6 0 | 2°36'19 | 3♋32 | 24°28 | 18°59 | 27°48 | 7°26 | 24°16 | 25°41 | 6°18 | 19°15 | 23°13 | 22°46 | 24° 2 | 11°27 | S 24 |
| S 25 | 16 9 57 | 3°33'52 | 15°21 | 25° 5 | 20° 5 | 28°33 | 7°35 | 24°13 | 25°40 | 6°17 | 19°16 | 23°12 | 22°42 | 24° 9 | 11°25 | S 25 |
| M26 | 16 13 53 | 4°31'23 | 27°15 | 25°37 | 21°11 | 29°17 | 7°44 | 24°11 | 25°39 | 6°16 | 19°17 | 23°10 | 22°39 | 24°15 | 11°22 | M26 |
| T 27 | 16 17 50 | 5°28'53 | 9♌17 | 26° 5 | 22°18 | 0♈ 2 | 7°52 | 24° 8 | 25°38 | 6°14 | 19°19 | 23° 9 | 22°36 | 24°22 | 11°19 | T 27 |
| W28 | 16 21 46 | 6°26'22 | 21°30 | 26°28 | 23°24 | 0°46 | 8° 1 | 24° 5 | 25°37 | 6°13 | 19°20 | 23° 8 | 22°33 | 24°29 | 11°17 | W28 |
| T 29 | 16 25 43 | 7°23'49 | 3♍58 | 26°47 | 24°31 | 1°30 | 8°11 | 24° 2 | 25°35 | 6°12 | 19°22 | 23°D 7 | 22°30 | 24°35 | 11°14 | T 29 |
| F 30 | 16 29 40 | 8°21'15 | 16°46 | 27° 1 | 25°38 | 2°14 | 8°20 | 24° 0 | 25°34 | 6°10 | 19°23 | 23° 8 | 22°26 | 24°42 | 11°11 | F 30 |
| S 31 | 16 33 36 | 9♊18'40 | 29♍57 | 27♊11 | 26♈45 | 2♈59 | 8♌29 | 23♎57 | 25♑33 | 6♑ 9 | 19♊24 | 23♏ 8 | 22♏23 | 24♊49 | 11♑ 8 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14n59 | 8n 6 | 5s17 | 19n51 | 1n25 | 2s58 | 0s51 | 9s 3 | 1s34 | 19n56 | 0n49 | 7s23 | 2n46 | 21s30 | 0s31 | 22s19 | 1n 0 | 15n24 | 7s38 | 18s38 | 18s48 | 20n50 | 16s 4 | 6n53 |
| F 2 | 15 17 | 3 44 | 5 6 | 20 30 | 1 34 | 2 38 | 0 55 | 8 47 | 1 34 | 19 54 | 0 49 | 7 22 | 2 46 | 21 30 | 0 31 | 22 19 | 1 0 | 15 25 | 7 37 | 18 38 | 18 47 | 20 50 | 16 4 | 6 54 |
| S 3 | 15 35 | 0s56 | 4 39 | 21 6 | 1 42 | 2 18 | 1 0 | 8 30 | 1 35 | 19 53 | 0 49 | 7 20 | 2 46 | 21 30 | 0 31 | 22 19 | 1 0 | 15 25 | 7 37 | 18 37 | 18 46 | 20 49 | 16 3 | 6 54 |
| S 4 | 15 53 | 5 42 | 3 56 | 21 39 | 1 50 | 1 57 | 1 4 | 8 13 | 1 36 | 19 51 | 0 49 | 7 19 | 2 45 | 21 30 | 0 31 | 22 19 | 1 0 | 15 25 | 7 37 | 18 37 | 18 46 | 20 49 | 16 3 | 6 55 |
| M 5 | 16 10 | 10 20 | 2 57 | 22 10 | 1 57 | 1 36 | 1 9 | 7 56 | 1 36 | 19 50 | 0 49 | 7 17 | 2 45 | 21 30 | 0 31 | 22 19 | 1 0 | 15 25 | 7 37 | 18 37 | 18 45 | 20 48 | 16 2 | 6 55 |
| T 6 | 16 27 | 14 29 | 1 45 | 22 38 | 2 3 | 1 15 | 1 13 | 7 39 | 1 37 | 19 48 | 0 49 | 7 16 | 2 45 | 21 31 | 0 31 | 22 19 | 1 0 | 15 26 | 7 37 | 18 37 | 18 44 | 20 48 | 16 2 | 6 56 |
| W 7 | 16 44 | 17 49 | 0 25 | 23 4 | 2 8 | 0 54 | 1 17 | 7 22 | 1 37 | 19 46 | 0 49 | 7 14 | 2 45 | 21 31 | 0 31 | 22 19 | 1 0 | 15 26 | 7 37 | 18 37 | 18 43 | 20 48 | 16 1 | 6 56 |
| T 8 | 17 0 | 19 58 | 0n57 | 23 28 | 2 13 | 0 32 | 1 20 | 7 5 | 1 38 | 19 45 | 0 49 | 7 13 | 2 45 | 21 31 | 0 31 | 22 19 | 1 0 | 15 26 | 7 37 | 18 37 | 18 42 | 20 47 | 16 1 | 6 57 |
| F 9 | 17 16 | 20 44 | 2 16 | 23 49 | 2 17 | 0 11 | 1 24 | 6 48 | 1 38 | 19 43 | 0 49 | 7 12 | 2 45 | 21 31 | 0 31 | 22 19 | 1 0 | 15 26 | 7 36 | 18 37 | 18 42 | 20 47 | 16 0 | 6 58 |
| S 10 | 17 32 | 20 1 | 3 25 | 24 7 | 2 20 | 0n11 | 1 28 | 6 31 | 1 39 | 19 41 | 0 49 | 7 10 | 2 45 | 21 31 | 0 31 | 22 19 | 1 0 | 15 26 | 7 36 | 18 37 | 18 41 | 20 46 | 16 0 | 6 58 |
| S 11 | 17 48 | 17 58 | 4 20 | 24 23 | 2 22 | 0 34 | 1 31 | 6 14 | 1 39 | 19 40 | 0 49 | 7 9 | 2 45 | 21 31 | 0 31 | 22 19 | 1 0 | 15 27 | 7 36 | 18 37 | 18 40 | 20 46 | 16 0 | 6 59 |
| M12 | 18 3 | 14 49 | 4 57 | 24 37 | 2 24 | 0 56 | 1 34 | 5 57 | 1 40 | 19 38 | 0 49 | 7 8 | 2 45 | 21 31 | 0 31 | 22 19 | 1 0 | 15 27 | 7 36 | 18 37 | 18 39 | 20 46 | 15 59 | 6 59 |
| T 13 | 18 19 | 10 55 | 5 16 | 24 49 | 2 24 | 1 18 | 1 38 | 5 39 | 1 40 | 19 36 | 0 49 | 7 7 | 2 44 | 21 31 | 0 31 | 22 19 | 1 0 | 15 27 | 7 36 | 18 37 | 18 39 | 20 45 | 15 59 | 7 0 |
| W14 | 18 33 | 6 32 | 5 15 | 24 58 | 2 24 | 1 41 | 1 41 | 5 22 | 1 41 | 19 34 | 0 49 | 7 5 | 2 44 | 21 31 | 0 31 | 22 19 | 1 0 | 15 27 | 7 36 | 18 37 | 18 38 | 20 45 | 15 59 | 7 0 |
| T 15 | 18 48 | 1 56 | 4 58 | 25 6 | 2 23 | 2 4 | 1 43 | 5 5 | 1 41 | 19 32 | 0 49 | 7 4 | 2 44 | 21 32 | 0 31 | 22 19 | 1 0 | 15 28 | 7 36 | 18 37 | 18 37 | 20 44 | 15 58 | 7 1 |
| F 16 | 19 2 | 2n39 | 4 26 | 25 11 | 2 21 | 2 26 | 1 46 | 4 48 | 1 41 | 19 30 | 0 49 | 7 3 | 2 44 | 21 32 | 0 31 | 22 19 | 1 0 | 15 28 | 7 36 | 18 37 | 18 36 | 20 44 | 15 58 | 7 1 |
| S 17 | 19 16 | 7 1 | 3 41 | 25 15 | 2 17 | 2 49 | 1 49 | 4 30 | 1 42 | 19 28 | 0 49 | 7 2 | 2 44 | 21 32 | 0 31 | 22 19 | 1 0 | 15 28 | 7 35 | 18 37 | 18 35 | 20 44 | 15 58 | 7 2 |
| S 18 | 19 29 | 11 1 | 2 47 | 25 16 | 2 14 | 3 12 | 1 51 | 4 13 | 1 42 | 19 26 | 0 48 | 7 1 | 2 44 | 21 32 | 0 31 | 22 19 | 1 0 | 15 28 | 7 35 | 18 37 | 18 34 | 20 43 | 15 57 | 7 2 |
| M19 | 19 42 | 14 30 | 1 45 | 25 16 | 2 9 | 3 36 | 1 54 | 3 55 | 1 43 | 19 24 | 0 48 | 7 0 | 2 43 | 21 32 | 0 31 | 22 19 | 1 0 | 15 28 | 7 35 | 18 37 | 18 34 | 20 43 | 15 57 | 7 3 |
| T 20 | 19 55 | 17 18 | 0 40 | 25 15 | 2 3 | 3 59 | 1 56 | 3 38 | 1 43 | 19 22 | 0 48 | 6 59 | 2 43 | 21 33 | 0 31 | 22 20 | 1 0 | 15 29 | 7 35 | 18 37 | 18 33 | 20 42 | 15 57 | 7 3 |
| W21 | 20 8 | 19 19 | 0s26 | 25 11 | 1 56 | 4 22 | 1 58 | 3 21 | 1 44 | 19 20 | 0 48 | 6 58 | 2 43 | 21 33 | 0 31 | 22 20 | 1 0 | 15 29 | 7 35 | 18 37 | 18 32 | 20 42 | 15 56 | 7 4 |
| T 22 | 20 20 | 20 28 | 1 31 | 25 7 | 1 49 | 4 45 | 2 0 | 3 3 | 1 44 | 19 18 | 0 48 | 6 56 | 2 43 | 21 33 | 0 31 | 22 20 | 1 0 | 15 29 | 7 35 | 18 37 | 18 31 | 20 41 | 15 56 | 7 4 |
| F 23 | 20 32 | 20 42 | 2 32 | 25 0 | 1 40 | 5 9 | 2 2 | 2 46 | 1 44 | 19 16 | 0 48 | 6 56 | 2 43 | 21 33 | 0 31 | 22 20 | 1 0 | 15 29 | 7 35 | 18 37 | 18 30 | 20 41 | 15 56 | 7 5 |
| S 24 | 20 43 | 20 1 | 3 25 | 24 53 | 1 31 | 5 32 | 2 4 | 2 29 | 1 45 | 19 13 | 0 48 | 6 55 | 2 42 | 21 33 | 0 31 | 22 20 | 1 0 | 15 29 | 7 35 | 18 37 | 18 30 | 20 40 | 15 56 | 7 5 |
| S 25 | 20 54 | 18 27 | 4 10 | 24 44 | 1 21 | 5 56 | 2 5 | 2 11 | 1 45 | 19 11 | 0 48 | 6 54 | 2 42 | 21 34 | 0 31 | 22 20 | 1 0 | 15 30 | 7 35 | 18 36 | 18 29 | 20 40 | 15 55 | 7 6 |
| M26 | 21 5 | 16 5 | 4 45 | 24 34 | 1 10 | 6 19 | 2 7 | 1 54 | 1 45 | 19 9 | 0 48 | 6 53 | 2 42 | 21 34 | 0 31 | 22 20 | 1 0 | 15 30 | 7 35 | 18 36 | 18 28 | 20 39 | 15 55 | 7 6 |
| T 27 | 21 15 | 13 1 | 5 7 | 24 23 | 0 58 | 6 42 | 2 8 | 1 36 | 1 46 | 19 6 | 0 48 | 6 52 | 2 42 | 21 34 | 0 31 | 22 20 | 1 0 | 15 30 | 7 34 | 18 36 | 18 27 | 20 39 | 15 55 | 7 6 |
| W28 | 21 25 | 9 22 | 5 17 | 24 11 | 0 45 | 7 6 | 2 10 | 1 19 | 1 46 | 19 4 | 0 48 | 6 51 | 2 42 | 21 34 | 0 32 | 22 20 | 1 0 | 15 30 | 7 34 | 18 35 | 18 26 | 20 39 | 15 55 | 7 7 |
| T 29 | 21 35 | 5 14 | 5 11 | 23 59 | 0 32 | 7 29 | 2 11 | 1 2 | 1 47 | 19 2 | 0 48 | 6 50 | 2 41 | 21 35 | 0 32 | 22 20 | 1 0 | 15 30 | 7 34 | 18 35 | 18 26 | 20 38 | 15 55 | 7 7 |
| F 30 | 21 44 | 0 47 | 4 50 | 23 45 | 0 18 | 7 52 | 2 12 | 0 44 | 1 47 | 18 59 | 0 48 | 6 49 | 2 41 | 21 35 | 0 32 | 22 20 | 1 0 | 15 31 | 7 34 | 18 35 | 18 25 | 20 38 | 15 54 | 7 8 |
| S 31 | 21n53 | 3s51 | 4s14 | 23n30 | 0n 3 | 8n16 | 2s13 | 0s27 | 1s47 | 18n57 | 0n48 | 6s49 | 2n41 | 21s35 | 0s32 | 22s20 | 1n 0 | 15n31 | 7s34 | 18s35 | 18s24 | 20n37 | 15s54 | 7n 8 |

Julian Day Number = 2327117.5, Delta T = 36.84 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'07, Lahiri = 19°06'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## JUNE 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 37 33 | 10♊16'04 | 13♎33 | 27♊15 | 27♈52 | 3♈43 | 8♌39 | 23°R55 | 25°R31 | 6°R 7 | 19♊26 | 23♏ 9 | 22♏20 | 24♊55 | 11°R 5 | S 1 |
| M 2 | 16 41 29 | 11°13'27 | 27°36 | 27°R16 | 28°59 | 4°27 | 8°48 | 23♎52 | 25♉30 | 6♉ 6 | 19°27 | 23°11 | 22°17 | 25° 2 | 11♉ 2 | M 2 |
| T 3 | 16 45 26 | 12°10'48 | 12♏ 5 | 27°11 | 0♉ 6 | 5°11 | 8°58 | 23°50 | 25°28 | 6° 5 | 19°29 | 23°12 | 22°14 | 25° 9 | 10°59 | T 3 |
| W 4 | 16 49 22 | 13° 8'09 | 26°56 | 27° 3 | 1°13 | 5°55 | 9° 7 | 23°48 | 25°27 | 6° 3 | 19°30 | 23°R12 | 22°11 | 25°15 | 10°56 | W 4 |
| T 5 | 16 53 19 | 14° 5'29 | 12♐ 2 | 26°50 | 2°21 | 6°39 | 9°17 | 23°46 | 25°25 | 6° 2 | 19°31 | 23°11 | 22° 7 | 25°22 | 10°52 | T 5 |
| F 6 | 16 57 15 | 15° 2'48 | 27°14 | 26°33 | 3°29 | 7°22 | 9°27 | 23°44 | 25°23 | 6° 0 | 19°33 | 23° 9 | 22° 4 | 25°29 | 10°49 | F 6 |
| S 7 | 17 1 12 | 16° 0'06 | 12♑24 | 26°13 | 4°36 | 8° 6 | 9°37 | 23°42 | 25°22 | 5°59 | 19°34 | 23° 7 | 22° 1 | 25°35 | 10°46 | S 7 |
| S 8 | 17 5 9 | 16°57'24 | 27°21 | 25°49 | 5°44 | 8°50 | 9°47 | 23°40 | 25°20 | 5°57 | 19°36 | 23° 4 | 21°58 | 25°42 | 10°43 | S 8 |
| M 9 | 17 9 5 | 17°54'41 | 11♒58 | 25°22 | 6°52 | 9°34 | 9°57 | 23°38 | 25°18 | 5°56 | 19°37 | 23° 1 | 21°55 | 25°49 | 10°39 | M 9 |
| T 10 | 17 13 2 | 18°51'58 | 26°10 | 24°53 | 8° 0 | 10°17 | 10° 8 | 23°36 | 25°17 | 5°54 | 19°39 | 22°58 | 21°52 | 25°56 | 10°36 | T 10 |
| W11 | 17 16 58 | 19°49'15 | 9♓55 | 24°22 | 9° 9 | 11° 1 | 10°18 | 23°35 | 25°15 | 5°53 | 19°40 | 22°57 | 21°48 | 26° 2 | 10°32 | W11 |
| T 12 | 17 20 55 | 20°46'31 | 23°14 | 23°49 | 10°17 | 11°44 | 10°28 | 23°33 | 25°13 | 5°51 | 19°41 | 22°D56 | 21°45 | 26° 9 | 10°29 | T 12 |
| F 13 | 17 24 51 | 21°43'47 | 6♈ 9 | 23°15 | 11°25 | 12°28 | 10°39 | 23°32 | 25°11 | 5°49 | 19°43 | 22°57 | 21°42 | 26°16 | 10°25 | F 13 |
| S 14 | 17 28 48 | 22°41'03 | 18°44 | 22°41 | 12°34 | 13°11 | 10°50 | 23°31 | 25° 9 | 5°48 | 19°44 | 22°58 | 21°39 | 26°22 | 10°22 | S 14 |
| S 15 | 17 32 44 | 23°38'18 | 1♉ 2 | 22° 7 | 13°42 | 13°54 | 11° 0 | 23°30 | 25° 7 | 5°46 | 19°46 | 23° 0 | 21°36 | 26°29 | 10°18 | S 15 |
| M16 | 17 36 41 | 24°35'33 | 13° 7 | 21°33 | 14°51 | 14°38 | 11°11 | 23°28 | 25° 5 | 5°45 | 19°47 | 23° 1 | 21°32 | 26°36 | 10°15 | M16 |
| T 17 | 17 40 38 | 25°32'49 | 25° 4 | 21° 1 | 16° 0 | 15°21 | 11°22 | 23°27 | 25° 3 | 5°43 | 19°48 | 23°R 2 | 21°29 | 26°42 | 10°11 | T 17 |
| W18 | 17 44 34 | 26°30'03 | 6♊56 | 20°31 | 17° 9 | 16° 4 | 11°33 | 23°27 | 25° 1 | 5°42 | 19°50 | 23° 1 | 21°26 | 26°49 | 10° 8 | W18 |
| T 19 | 17 48 31 | 27°27'18 | 18°44 | 20° 3 | 18°18 | 16°47 | 11°44 | 23°26 | 24°59 | 5°40 | 19°51 | 22°58 | 21°23 | 26°56 | 10° 4 | T 19 |
| F 20 | 17 52 27 | 28°24'32 | 0♋33 | 19°39 | 19°27 | 17°30 | 11°55 | 23°25 | 24°57 | 5°38 | 19°53 | 22°54 | 21°20 | 27° 2 | 10° 0 | F 20 |
| S 21 | 17 56 24 | 29°21'46 | 12°23 | 19°17 | 20°36 | 18°12 | 12° 6 | 23°24 | 24°55 | 5°37 | 19°54 | 22°48 | 21°17 | 27° 9 | 9°57 | S 21 |
| S 22 | 18 0 20 | 0♋19'00 | 24°16 | 18°59 | 21°45 | 18°55 | 12°17 | 23°24 | 24°53 | 5°35 | 19°55 | 22°42 | 21°13 | 27°16 | 9°53 | S 22 |
| M23 | 18 4 17 | 1°16'13 | 6♌16 | 18°45 | 22°54 | 19°38 | 12°28 | 23°23 | 24°51 | 5°34 | 19°57 | 22°35 | 21°10 | 27°22 | 9°49 | M23 |
| T 24 | 18 8 13 | 2°13'26 | 18°23 | 18°36 | 24° 4 | 20°20 | 12°40 | 23°23 | 24°49 | 5°32 | 19°58 | 22°28 | 21° 7 | 27°29 | 9°45 | T 24 |
| W25 | 18 12 10 | 3°10'39 | 0♍40 | 18°31 | 25°13 | 21° 3 | 12°51 | 23°23 | 24°47 | 5°30 | 20° 0 | 22°23 | 21° 4 | 27°36 | 9°42 | W25 |
| T 26 | 18 16 7 | 4° 7'51 | 13°10 | 18°D30 | 26°23 | 21°45 | 13° 3 | 23°23 | 24°45 | 5°29 | 20° 1 | 22°19 | 21° 1 | 27°42 | 9°38 | T 26 |
| F 27 | 18 20 3 | 5° 5'03 | 25°56 | 18°34 | 27°32 | 22°27 | 13°14 | 23°D23 | 24°42 | 5°27 | 20° 2 | 22°17 | 20°58 | 27°49 | 9°34 | F 27 |
| S 28 | 18 24 0 | 6° 2'14 | 9♎ 2 | 18°44 | 28°42 | 23° 9 | 13°26 | 23°23 | 24°40 | 5°25 | 20° 4 | 22°D17 | 20°54 | 27°56 | 9°30 | S 28 |
| S 29 | 18 27 56 | 6°59'25 | 22°30 | 18°58 | 29°52 | 23°51 | 13°37 | 23°23 | 24°38 | 5°24 | 20° 5 | 22°18 | 20°51 | 28° 2 | 9°26 | S 29 |
| M30 | 18 31 53 | 7♋56'36 | 6♏23 | 19♊17 | 1♊ 2 | 24♈33 | 13♌49 | 23♎23 | 24♑36 | 5♑22 | 20♊ 7 | 22♏19 | 20♏48 | 28♊ 9 | 9♑23 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 2 | 8s28 | 3s22 | 23n15 | 0s12 | 8n39 | 2s14 | 0s10 | 1s47 | 18n54 | 0n48 | 6s48 | 2n41 | 21s36 | 0s32 | 22s20 | 1n 0 | 15n31 | 7s34 | 18s36 | 18s23 | 20n37 | 15s54 | 7n 8 |
| M 2 | 22 10 | 12 46 | 2 17 | 22 59 | 0 28 | 9 2 | 2 14 | 0n 7 | 1 48 | 18 52 | 0 48 | 6 47 | 2 41 | 21 36 | 0 32 | 22 20 | 1 0 | 15 31 | 7 34 | 18 36 | 18 22 | 20 36 | 15 54 | 7 9 |
| T 3 | 22 18 | 16 27 | 1 1 | 22 42 | 0 45 | 9 25 | 2 15 | 0 25 | 1 48 | 18 49 | 0 48 | 6 47 | 2 40 | 21 36 | 0 32 | 22 20 | 1 0 | 15 31 | 7 34 | 18 36 | 18 22 | 20 36 | 15 54 | 7 9 |
| W 4 | 22 25 | 19 10 | 0n21 | 22 25 | 1 1 | 9 48 | 2 16 | 0 42 | 1 48 | 18 46 | 0 48 | 6 46 | 2 40 | 21 36 | 0 32 | 22 20 | 1 0 | 15 31 | 7 34 | 18 36 | 18 21 | 20 35 | 15 54 | 7 10 |
| T 5 | 22 32 | 20 35 | 1 42 | 22 8 | 1 18 | 10 11 | 2 16 | 0 59 | 1 49 | 18 44 | 0 48 | 6 46 | 2 40 | 21 37 | 0 32 | 22 20 | 1 0 | 15 32 | 7 34 | 18 36 | 18 20 | 20 35 | 15 54 | 7 10 |
| F 6 | 22 38 | 20 30 | 2 57 | 21 51 | 1 36 | 10 34 | 2 16 | 1 16 | 1 49 | 18 41 | 0 48 | 6 45 | 2 40 | 21 37 | 0 32 | 22 20 | 1 0 | 15 32 | 7 34 | 18 36 | 18 19 | 20 34 | 15 53 | 7 10 |
| S 7 | 22 45 | 18 56 | 3 59 | 21 33 | 1 53 | 10 56 | 2 16 | 1 33 | 1 49 | 18 38 | 0 48 | 6 45 | 2 39 | 21 37 | 0 32 | 22 21 | 1 0 | 15 32 | 7 34 | 18 35 | 18 18 | 20 34 | 15 53 | 7 11 |
| S 8 | 22 50 | 16 5 | 4 44 | 21 15 | 2 10 | 11 19 | 2 16 | 1 50 | 1 49 | 18 36 | 0 48 | 6 44 | 2 39 | 21 38 | 0 32 | 22 21 | 1 0 | 15 32 | 7 34 | 18 34 | 18 17 | 20 33 | 15 53 | 7 11 |
| M 9 | 22 56 | 12 17 | 5 9 | 20 58 | 2 26 | 11 41 | 2 16 | 2 7 | 1 49 | 18 33 | 0 48 | 6 44 | 2 39 | 21 38 | 0 32 | 22 21 | 1 0 | 15 32 | 7 34 | 18 33 | 18 17 | 20 32 | 15 53 | 7 11 |
| T 10 | 23 1 | 7 53 | 5 14 | 20 41 | 2 42 | 12 3 | 2 16 | 2 24 | 1 50 | 18 30 | 0 48 | 6 43 | 2 39 | 21 38 | 0 32 | 22 21 | 1 0 | 15 32 | 7 34 | 18 33 | 18 16 | 20 32 | 15 53 | 7 12 |
| W11 | 23 5 | 3 13 | 5 1 | 20 24 | 2 58 | 12 25 | 2 16 | 2 41 | 1 50 | 18 27 | 0 48 | 6 43 | 2 38 | 21 39 | 0 32 | 22 21 | 1 0 | 15 33 | 7 33 | 18 32 | 18 15 | 20 31 | 15 53 | 7 12 |
| T 12 | 23 10 | 1n28 | 4 32 | 20 8 | 3 13 | 12 47 | 2 16 | 2 58 | 1 50 | 18 24 | 0 48 | 6 43 | 2 38 | 21 39 | 0 32 | 22 21 | 1 0 | 15 33 | 7 33 | 18 32 | 18 14 | 20 31 | 15 53 | 7 12 |
| F 13 | 23 13 | 5 57 | 3 50 | 19 52 | 3 26 | 13 8 | 2 15 | 3 14 | 1 50 | 18 22 | 0 48 | 6 42 | 2 38 | 21 40 | 0 32 | 22 21 | 1 0 | 15 33 | 7 33 | 18 33 | 18 13 | 20 30 | 15 53 | 7 12 |
| S 14 | 23 17 | 10 5 | 2 57 | 19 38 | 3 39 | 13 30 | 2 15 | 3 31 | 1 50 | 18 19 | 0 48 | 6 42 | 2 38 | 21 40 | 0 32 | 22 21 | 1 0 | 15 33 | 7 33 | 18 33 | 18 12 | 20 30 | 15 53 | 7 13 |
| S 15 | 23 20 | 13 41 | 1 58 | 19 24 | 3 51 | 13 51 | 2 14 | 3 48 | 1 51 | 18 16 | 0 48 | 6 42 | 2 37 | 21 40 | 0 32 | 22 21 | 1 0 | 15 33 | 7 33 | 18 33 | 18 12 | 20 29 | 15 53 | 7 13 |
| M16 | 23 22 | 16 40 | 0 54 | 19 12 | 4 1 | 14 12 | 2 14 | 4 4 | 1 51 | 18 13 | 0 47 | 6 42 | 2 37 | 21 41 | 0 32 | 22 21 | 1 0 | 15 33 | 7 33 | 18 34 | 18 11 | 20 29 | 15 53 | 7 13 |
| T 17 | 23 24 | 18 53 | 0s11 | 19 1 | 4 10 | 14 32 | 2 13 | 4 21 | 1 51 | 18 10 | 0 47 | 6 42 | 2 37 | 21 41 | 0 32 | 22 21 | 1 0 | 15 33 | 7 33 | 18 34 | 18 10 | 20 28 | 15 53 | 7 13 |
| W18 | 23 26 | 20 16 | 1 15 | 18 51 | 4 18 | 14 52 | 2 12 | 4 37 | 1 51 | 18 7 | 0 47 | 6 42 | 2 37 | 21 41 | 0 32 | 22 21 | 1 0 | 15 34 | 7 33 | 18 34 | 18 9 | 20 28 | 15 53 | 7 14 |
| T 19 | 23 27 | 20 45 | 2 16 | 18 43 | 4 24 | 15 12 | 2 11 | 4 54 | 1 51 | 18 4 | 0 47 | 6 42 | 2 36 | 21 42 | 0 32 | 22 21 | 1 0 | 15 34 | 7 33 | 18 33 | 18 8 | 20 27 | 15 53 | 7 14 |
| F 20 | 23 28 | 20 18 | 3 10 | 18 36 | 4 29 | 15 32 | 2 10 | 5 10 | 1 51 | 18 0 | 0 47 | 6 42 | 2 36 | 21 42 | 0 32 | 22 21 | 1 0 | 15 34 | 7 33 | 18 32 | 18 8 | 20 26 | 15 54 | 7 14 |
| S 21 | 23 29 | 18 58 | 3 57 | 18 31 | 4 32 | 15 52 | 2 9 | 5 26 | 1 51 | 17 57 | 0 47 | 6 42 | 2 36 | 21 43 | 0 32 | 22 21 | 1 0 | 15 34 | 7 33 | 18 30 | 18 7 | 20 26 | 15 54 | 7 14 |
| S 22 | 23 29 | 16 49 | 4 33 | 18 28 | 4 34 | 16 11 | 2 8 | 5 42 | 1 51 | 17 54 | 0 47 | 6 42 | 2 36 | 21 43 | 0 32 | 22 22 | 1 0 | 15 34 | 7 33 | 18 29 | 18 6 | 20 25 | 15 54 | 7 14 |
| M23 | 23 29 | 13 56 | 4 58 | 18 27 | 4 35 | 16 30 | 2 6 | 5 58 | 1 51 | 17 51 | 0 47 | 6 42 | 2 35 | 21 43 | 0 32 | 22 22 | 1 0 | 15 34 | 7 33 | 18 27 | 18 5 | 20 25 | 15 54 | 7 14 |
| T 24 | 23 28 | 10 26 | 5 9 | 18 27 | 4 34 | 16 48 | 2 5 | 6 14 | 1 51 | 17 48 | 0 47 | 6 42 | 2 35 | 21 44 | 0 32 | 22 22 | 1 0 | 15 34 | 7 33 | 18 25 | 18 4 | 20 24 | 15 54 | 7 15 |
| W25 | 23 27 | 6 28 | 5 7 | 18 29 | 4 31 | 17 6 | 2 4 | 6 30 | 1 51 | 17 44 | 0 47 | 6 42 | 2 35 | 21 44 | 0 32 | 22 22 | 1 0 | 15 34 | 7 33 | 18 24 | 18 3 | 20 24 | 15 54 | 7 15 |
| T 26 | 23 25 | 2 10 | 4 50 | 18 32 | 4 28 | 17 24 | 2 2 | 6 46 | 1 51 | 17 41 | 0 47 | 6 42 | 2 35 | 21 45 | 0 32 | 22 22 | 1 0 | 15 34 | 7 33 | 18 23 | 18 3 | 20 23 | 15 54 | 7 15 |
| F 27 | 23 23 | 2s20 | 4 18 | 18 37 | 4 23 | 17 41 | 2 0 | 7 2 | 1 51 | 17 38 | 0 47 | 6 42 | 2 34 | 21 45 | 0 32 | 22 22 | 1 0 | 15 35 | 7 33 | 18 22 | 18 2 | 20 22 | 15 54 | 7 15 |
| S 28 | 23 21 | 6 51 | 3 33 | 18 44 | 4 17 | 17 58 | 1 59 | 7 17 | 1 51 | 17 35 | 0 47 | 6 43 | 2 34 | 21 45 | 0 32 | 22 22 | 1 0 | 15 35 | 7 33 | 18 22 | 18 1 | 20 22 | 15 55 | 7 15 |
| S 29 | 23 18 | 11 10 | 2 34 | 18 52 | 4 11 | 18 15 | 1 57 | 7 33 | 1 51 | 17 31 | 0 47 | 6 43 | 2 34 | 21 46 | 0 32 | 22 22 | 1 0 | 15 35 | 7 33 | 18 23 | 18 0 | 20 21 | 15 55 | 7 15 |
| M30 | 23n15 | 15s 1 | 1s25 | 19n 1 | 4s 3 | 18n31 | 1s55 | 7n48 | 1s51 | 17n28 | 0n47 | 6s43 | 2n34 | 21s46 | 0s32 | 22s22 | 1n 0 | 15n35 | 7s33 | 18s23 | 17s59 | 20n21 | 15s55 | 7n15 |

Julian Day Number = 2327148.5, Delta T = 36.79 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'11, Lahiri = 19°06'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## JULY 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 35 49 | 8♋53'47 | 20♏41 | 19♊41 | 2♊11 | 25♈15 | 14♌ 1 | 23♎24 | 24°R33 | 5°R21 | 20♊ 8 | 22°R19 | 20♏45 | 28♊16 | 9°R19 | T 1 |
| W 2 | 18 39 46 | 9°50'57 | 5♐23 | 20°11 | 3°21 | 25°57 | 14°13 | 23°24 | 24♑31 | 5♑19 | 20° 9 | 22♏19 | 20°42 | 28°22 | 9♑15 | W 2 |
| T 3 | 18 43 42 | 10°48'08 | 20°24 | 20°45 | 4°31 | 26°39 | 14°25 | 23°25 | 24°29 | 5°17 | 20°11 | 22°16 | 20°38 | 28°29 | 9°11 | T 3 |
| F 4 | 18 47 39 | 11°45'18 | 5♑36 | 21°24 | 5°41 | 27°20 | 14°36 | 23°26 | 24°26 | 5°16 | 20°12 | 22°12 | 20°35 | 28°36 | 9° 8 | F 4 |
| S 5 | 18 51 36 | 12°42'29 | 20°50 | 22° 8 | 6°52 | 28° 2 | 14°48 | 23°26 | 24°24 | 5°14 | 20°13 | 22° 5 | 20°32 | 28°42 | 9° 4 | S 5 |
| S 6 | 18 55 32 | 13°39'40 | 5♒55 | 22°57 | 8° 2 | 28°43 | 15° 0 | 23°27 | 24°22 | 5°13 | 20°15 | 21°58 | 20°29 | 28°49 | 9° 0 | S 6 |
| M 7 | 18 59 29 | 14°36'51 | 20°42 | 23°51 | 9°12 | 29°24 | 15°13 | 23°28 | 24°19 | 5°11 | 20°16 | 21°50 | 20°26 | 28°56 | 8°56 | M 7 |
| T 8 | 19 3 25 | 15°34'02 | 5♓ 4 | 24°50 | 10°23 | 0♉ 5 | 15°25 | 23°29 | 24°17 | 5° 9 | 20°17 | 21°43 | 20°23 | 29° 2 | 8°53 | T 8 |
| W 9 | 19 7 22 | 16°31'14 | 18°56 | 25°53 | 11°33 | 0°46 | 15°37 | 23°30 | 24°15 | 5° 8 | 20°18 | 21°38 | 20°19 | 29° 9 | 8°49 | W 9 |
| T 10 | 19 11 18 | 17°28'27 | 2♈20 | 27° 1 | 12°43 | 1°27 | 15°49 | 23°32 | 24°12 | 5° 6 | 20°20 | 21°35 | 20°16 | 29°16 | 8°45 | T 10 |
| F 11 | 19 15 15 | 18°25'40 | 15°16 | 28°14 | 13°54 | 2° 8 | 16° 1 | 23°33 | 24°10 | 5° 5 | 20°21 | 21°D34 | 20°13 | 29°22 | 8°41 | F 11 |
| S 12 | 19 19 11 | 19°22'54 | 27°50 | 29°31 | 15° 5 | 2°49 | 16°14 | 23°34 | 24° 7 | 5° 3 | 20°22 | 21°34 | 20°10 | 29°29 | 8°38 | S 12 |
| S 13 | 19 23 8 | 20°20'09 | 10♉ 4 | 0♋52 | 16°15 | 3°29 | 16°26 | 23°36 | 24° 5 | 5° 2 | 20°24 | 21°35 | 20° 7 | 29°36 | 8°34 | S 13 |
| M14 | 19 27 5 | 21°17'24 | 22° 5 | 2°18 | 17°26 | 4°10 | 16°38 | 23°38 | 24° 3 | 5° 0 | 20°25 | 21°R35 | 20° 4 | 29°42 | 8°30 | M14 |
| T 15 | 19 31 1 | 22°14'40 | 3♊58 | 3°48 | 18°37 | 4°50 | 16°51 | 23°39 | 24° 0 | 4°58 | 20°26 | 21°35 | 20° 0 | 29°49 | 8°27 | T 15 |
| W16 | 19 34 58 | 23°11'57 | 15°46 | 5°22 | 19°48 | 5°30 | 17° 3 | 23°41 | 23°58 | 4°57 | 20°27 | 21°32 | 19°57 | 29°56 | 8°23 | W16 |
| T 17 | 19 38 54 | 24° 9'14 | 27°34 | 7° 0 | 20°59 | 6°10 | 17°16 | 23°43 | 23°55 | 4°55 | 20°29 | 21°26 | 19°54 | 0♌ 2 | 8°20 | T 17 |
| F 18 | 19 42 51 | 25° 6'33 | 9♋24 | 8°42 | 22°10 | 6°50 | 17°28 | 23°45 | 23°53 | 4°54 | 20°30 | 21°19 | 19°51 | 0° 9 | 8°16 | F 18 |
| S 19 | 19 46 47 | 26° 3'51 | 21°19 | 10°27 | 23°21 | 7°30 | 17°41 | 23°47 | 23°51 | 4°52 | 20°31 | 21° 8 | 19°48 | 0°16 | 8°13 | S 19 |
| S 20 | 19 50 44 | 27° 1'11 | 3♌20 | 12°15 | 24°32 | 8°10 | 17°53 | 23°50 | 23°48 | 4°51 | 20°32 | 20°57 | 19°44 | 0°22 | 8° 9 | S 20 |
| M21 | 19 54 41 | 27°58'31 | 15°29 | 14° 7 | 25°44 | 8°49 | 18° 6 | 23°52 | 23°46 | 4°49 | 20°33 | 20°45 | 19°41 | 0°29 | 8° 6 | M21 |
| T 22 | 19 58 37 | 28°55'52 | 27°47 | 16° 2 | 26°55 | 9°29 | 18°19 | 23°54 | 23°43 | 4°48 | 20°34 | 20°33 | 19°38 | 0°36 | 8° 2 | T 22 |
| W23 | 20 2 34 | 29°53'13 | 10♍14 | 17°59 | 28° 6 | 10° 8 | 18°32 | 23°57 | 23°41 | 4°47 | 20°36 | 20°23 | 19°35 | 0°43 | 7°59 | W23 |
| T 24 | 20 6 30 | 0♌50'35 | 22°53 | 19°58 | 29°18 | 10°47 | 18°44 | 23°59 | 23°39 | 4°45 | 20°37 | 20°16 | 19°32 | 0°49 | 7°55 | T 24 |
| F 25 | 20 10 27 | 1°47'57 | 5♎45 | 21°59 | 0♋29 | 11°26 | 18°57 | 24° 2 | 23°36 | 4°44 | 20°38 | 20°10 | 19°29 | 0°56 | 7°52 | F 25 |
| S 26 | 20 14 23 | 2°45'20 | 18°53 | 24° 1 | 1°41 | 12° 4 | 19°10 | 24° 5 | 23°34 | 4°42 | 20°39 | 20° 8 | 19°25 | 1° 3 | 7°49 | S 26 |
| S 27 | 20 18 20 | 3°42'44 | 2♏17 | 26° 5 | 2°52 | 12°43 | 19°23 | 24° 8 | 23°32 | 4°41 | 20°40 | 20°D 7 | 19°22 | 1° 9 | 7°46 | S 27 |
| M28 | 20 22 16 | 4°40'08 | 16° 2 | 28° 9 | 4° 4 | 13°21 | 19°35 | 24°11 | 23°29 | 4°40 | 20°41 | 20°R 7 | 19°19 | 1°16 | 7°43 | M28 |
| T 29 | 20 26 13 | 5°37'33 | 0♐ 7 | 0♌14 | 5°15 | 13°59 | 19°48 | 24°14 | 23°27 | 4°38 | 20°42 | 20° 7 | 19°16 | 1°23 | 7°39 | T 29 |
| W30 | 20 30 9 | 6°34'58 | 14°34 | 2°20 | 6°27 | 14°38 | 20° 1 | 24°17 | 23°25 | 4°37 | 20°43 | 20° 5 | 19°13 | 1°29 | 7°36 | W30 |
| T 31 | 20 34 6 | 7♌32'25 | 29♐18 | 4♌25 | 7♋39 | 15♉15 | 20♌14 | 24♎20 | 23♑22 | 4♑36 | 20♊44 | 20♏ 1 | 19♏10 | 1♋36 | 7♑33 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 23n11 | 18s 6 | 0s 9 | 19n11 | 3s54 | 18n47 | 1s53 | 8n 4 | 1s51 | 17n24 | 0n47 | 6s44 | 2n33 | 21s47 | 0s32 | 22s22 | 1n 0 | 15n35 | 7s33 | 18s23 | 17s58 | 20n20 | 15s55 | 7n15 | T 1 |
| W 2 | 23 7 | 20 5 | 1n10 | 19 23 | 3 45 | 19 2 | 1 51 | 8 19 | 1 51 | 17 21 | 0 47 | 6 44 | 2 33 | 21 47 | 0 32 | 22 22 | 1 0 | 15 35 | 7 33 | 18 23 | 17 57 | 20 19 | 15 55 | 7 15 | W 2 |
| T 3 | 23 2 | 20 43 | 2 26 | 19 36 | 3 34 | 19 17 | 1 49 | 8 34 | 1 51 | 17 18 | 0 47 | 6 45 | 2 33 | 21 48 | 0 32 | 22 22 | 1 0 | 15 35 | 7 33 | 18 22 | 17 57 | 20 19 | 15 55 | 7 15 | T 3 |
| F 4 | 22 58 | 19 50 | 3 32 | 19 49 | 3 24 | 19 32 | 1 47 | 8 49 | 1 51 | 17 14 | 0 47 | 6 45 | 2 32 | 21 48 | 0 32 | 22 22 | 1 0 | 15 35 | 7 33 | 18 21 | 17 56 | 20 18 | 15 56 | 7 15 | F 4 |
| S 5 | 22 52 | 17 32 | 4 23 | 20 3 | 3 12 | 19 46 | 1 45 | 9 4 | 1 51 | 17 11 | 0 47 | 6 46 | 2 32 | 21 48 | 0 32 | 22 23 | 1 0 | 15 35 | 7 33 | 18 19 | 17 55 | 20 17 | 15 56 | 7 15 | S 5 |
| S 6 | 22 47 | 14 3 | 4 55 | 20 18 | 3 0 | 19 59 | 1 43 | 9 19 | 1 51 | 17 7 | 0 47 | 6 46 | 2 32 | 21 49 | 0 32 | 22 23 | 1 0 | 15 35 | 7 33 | 18 17 | 17 54 | 20 17 | 15 56 | 7 15 | S 6 |
| M 7 | 22 41 | 9 46 | 5 7 | 20 33 | 2 48 | 20 12 | 1 41 | 9 33 | 1 51 | 17 3 | 0 47 | 6 47 | 2 32 | 21 49 | 0 32 | 22 23 | 1 0 | 15 35 | 7 33 | 18 15 | 17 53 | 20 16 | 15 56 | 7 15 | M 7 |
| T 8 | 22 34 | 5 2 | 4 59 | 20 48 | 2 35 | 20 25 | 1 39 | 9 48 | 1 51 | 17 0 | 0 47 | 6 48 | 2 31 | 21 50 | 0 32 | 22 23 | 1 0 | 15 35 | 7 33 | 18 14 | 17 52 | 20 16 | 15 57 | 7 15 | T 8 |
| W 9 | 22 28 | 0 12 | 4 33 | 21 3 | 2 22 | 20 37 | 1 36 | 10 2 | 1 50 | 16 56 | 0 47 | 6 48 | 2 31 | 21 50 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 12 | 17 52 | 20 15 | 15 57 | 7 15 | W 9 |
| T 10 | 22 20 | 4n29 | 3 53 | 21 18 | 2 9 | 20 49 | 1 34 | 10 17 | 1 50 | 16 53 | 0 47 | 6 49 | 2 31 | 21 51 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 12 | 17 51 | 20 14 | 15 57 | 7 15 | T 10 |
| F 11 | 22 13 | 8 49 | 3 2 | 21 33 | 1 55 | 21 0 | 1 32 | 10 31 | 1 50 | 16 49 | 0 47 | 6 50 | 2 31 | 21 51 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 11 | 17 50 | 20 14 | 15 58 | 7 15 | F 11 |
| S 12 | 22 5 | 12 39 | 2 4 | 21 47 | 1 41 | 21 10 | 1 29 | 10 45 | 1 50 | 16 45 | 0 47 | 6 50 | 2 30 | 21 51 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 11 | 17 49 | 20 13 | 15 58 | 7 15 | S 12 |
| S 13 | 21 56 | 15 50 | 1 1 | 22 1 | 1 28 | 21 20 | 1 27 | 10 59 | 1 50 | 16 42 | 0 47 | 6 51 | 2 30 | 21 52 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 12 | 17 48 | 20 12 | 15 58 | 7 15 | S 13 |
| M14 | 21 48 | 18 17 | 0s 3 | 22 14 | 1 14 | 21 29 | 1 24 | 11 13 | 1 50 | 16 38 | 0 47 | 6 52 | 2 30 | 21 52 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 12 | 17 47 | 20 12 | 15 58 | 7 15 | M14 |
| T 15 | 21 39 | 19 54 | 1 6 | 22 25 | 1 0 | 21 38 | 1 22 | 11 26 | 1 49 | 16 34 | 0 47 | 6 53 | 2 30 | 21 53 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 11 | 17 46 | 20 11 | 15 59 | 7 15 | T 15 |
| W16 | 21 29 | 20 38 | 2 6 | 22 35 | 0 47 | 21 47 | 1 19 | 11 40 | 1 49 | 16 30 | 0 48 | 6 54 | 2 29 | 21 53 | 0 32 | 22 23 | 1 0 | 15 36 | 7 33 | 18 11 | 17 46 | 20 10 | 15 59 | 7 15 | W16 |
| T 17 | 21 19 | 20 28 | 3 0 | 22 44 | 0 34 | 21 54 | 1 16 | 11 53 | 1 49 | 16 27 | 0 48 | 6 55 | 2 29 | 21 54 | 0 32 | 22 23 | 1 0 | 15 36 | 7 34 | 18 9 | 17 45 | 20 10 | 15 59 | 7 15 | T 17 |
| F 18 | 21 9 | 19 23 | 3 46 | 22 51 | 0 21 | 22 1 | 1 14 | 12 7 | 1 49 | 16 23 | 0 48 | 6 56 | 2 29 | 21 54 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 18 7 | 17 44 | 20 9 | 16 0 | 7 14 | F 18 |
| S 19 | 20 58 | 17 28 | 4 23 | 22 56 | 0 8 | 22 8 | 1 11 | 12 20 | 1 48 | 16 19 | 0 48 | 6 57 | 2 28 | 21 54 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 18 5 | 17 43 | 20 8 | 16 0 | 7 14 | S 19 |
| S 20 | 20 47 | 14 46 | 4 48 | 22 59 | 0n 4 | 22 14 | 1 8 | 12 33 | 1 48 | 16 15 | 0 48 | 6 58 | 2 28 | 21 55 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 18 2 | 17 42 | 20 8 | 16 0 | 7 14 | S 20 |
| M21 | 20 36 | 11 25 | 5 1 | 23 0 | 0 16 | 22 19 | 1 5 | 12 46 | 1 48 | 16 11 | 0 48 | 6 59 | 2 28 | 21 55 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 58 | 17 41 | 20 7 | 16 1 | 7 14 | M21 |
| T 22 | 20 25 | 7 34 | 5 0 | 22 58 | 0 27 | 22 24 | 1 3 | 12 59 | 1 47 | 16 7 | 0 48 | 7 0 | 2 28 | 21 56 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 55 | 17 40 | 20 6 | 16 1 | 7 14 | T 22 |
| W23 | 20 13 | 3 21 | 4 45 | 22 54 | 0 38 | 22 28 | 1 0 | 13 11 | 1 47 | 16 3 | 0 48 | 7 1 | 2 27 | 21 56 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 53 | 17 40 | 20 5 | 16 2 | 7 14 | W23 |
| T 24 | 20 0 | 1s 5 | 4 15 | 22 47 | 0 48 | 22 32 | 0 57 | 13 24 | 1 47 | 15 59 | 0 48 | 7 2 | 2 27 | 21 56 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 51 | 17 39 | 20 5 | 16 2 | 7 13 | T 24 |
| F 25 | 19 48 | 5 32 | 3 32 | 22 37 | 0 57 | 22 35 | 0 54 | 13 36 | 1 46 | 15 56 | 0 48 | 7 4 | 2 27 | 21 57 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 49 | 17 38 | 20 4 | 16 2 | 7 13 | F 25 |
| S 26 | 19 35 | 9 50 | 2 38 | 22 25 | 1 5 | 22 37 | 0 51 | 13 48 | 1 46 | 15 52 | 0 48 | 7 5 | 2 27 | 21 57 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 48 | 17 37 | 20 3 | 16 3 | 7 13 | S 26 |
| S 27 | 19 21 | 13 45 | 1 33 | 22 10 | 1 13 | 22 39 | 0 48 | 14 0 | 1 46 | 15 48 | 0 48 | 7 6 | 2 26 | 21 58 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 48 | 17 36 | 20 3 | 16 3 | 7 13 | S 27 |
| M28 | 19 8 | 17 1 | 0 22 | 21 52 | 1 20 | 22 40 | 0 46 | 14 12 | 1 45 | 15 44 | 0 48 | 7 8 | 2 26 | 21 58 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 48 | 17 35 | 20 2 | 16 4 | 7 12 | M28 |
| T 29 | 18 54 | 19 21 | 0n53 | 21 32 | 1 26 | 22 40 | 0 43 | 14 24 | 1 45 | 15 40 | 0 48 | 7 9 | 2 26 | 21 59 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 48 | 17 34 | 20 1 | 16 4 | 7 12 | T 29 |
| W30 | 18 40 | 20 30 | 2 6 | 21 9 | 1 31 | 22 40 | 0 40 | 14 36 | 1 44 | 15 35 | 0 48 | 7 10 | 2 26 | 21 59 | 0 32 | 22 24 | 1 0 | 15 36 | 7 34 | 17 48 | 17 34 | 20 0 | 16 4 | 7 12 | W30 |
| T 31 | 18n25 | 20s17 | 3n12 | 20n44 | 1n36 | 22n39 | 0s37 | 14n47 | 1s44 | 15n31 | 0n48 | 7s12 | 2n25 | 21s59 | 0s32 | 22s25 | 1n 0 | 15n36 | 7s34 | 17s47 | 17s33 | 20n 0 | 16s 5 | 7n12 | T 31 |

Julian Day Number = 2327178.5, Delta T = 36.73 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'15, Lahiri = 19°06'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## AUGUST 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 38 3 | 8♌29'52 | 14♉16 | 6♌30 | 8♋51 | 15♉53 | 20♌27 | 24♎23 | 23°R20 | 4°R34 | 20♊45 | 19°R54 | 19♏ 6 | 1♋43 | 7°R30 | F 1 |
| S 2 | 20 41 59 | 9°27'20 | 29°18 | 8°34 | 10° 3 | 16°31 | 20°40 | 24°27 | 23♉18 | 4♉33 | 20°46 | 19♏45 | 19° 3 | 1°49 | 7♉27 | S 2 |
| S 3 | 20 45 56 | 10°24'49 | 14♒16 | 10°37 | 11°15 | 17° 8 | 20°53 | 24°30 | 23°15 | 4°32 | 20°47 | 19°35 | 19° 0 | 1°56 | 7°25 | S 3 |
| M 4 | 20 49 52 | 11°22'18 | 29° 0 | 12°40 | 12°27 | 17°45 | 21° 6 | 24°34 | 23°13 | 4°31 | 20°48 | 19°24 | 18°57 | 2° 3 | 7°22 | M 4 |
| T 5 | 20 53 49 | 12°19'50 | 13♓22 | 14°42 | 13°39 | 18°22 | 21°19 | 24°37 | 23°11 | 4°29 | 20°49 | 19°14 | 18°54 | 2° 9 | 7°19 | T 5 |
| W 6 | 20 57 45 | 13°17'22 | 27°18 | 16°42 | 14°51 | 18°59 | 21°32 | 24°41 | 23° 9 | 4°28 | 20°50 | 19° 6 | 18°50 | 2°16 | 7°16 | W 6 |
| T 7 | 21 1 42 | 14°14'56 | 10♈45 | 18°42 | 16° 3 | 19°36 | 21°45 | 24°45 | 23° 6 | 4°27 | 20°51 | 19° 0 | 18°47 | 2°23 | 7°14 | T 7 |
| F 8 | 21 5 38 | 15°12'31 | 23°44 | 20°40 | 17°16 | 20°12 | 21°58 | 24°48 | 23° 4 | 4°26 | 20°52 | 18°57 | 18°44 | 2°29 | 7°11 | F 8 |
| S 9 | 21 9 35 | 16°10'07 | 6♉20 | 22°36 | 18°28 | 20°49 | 22°11 | 24°52 | 23° 2 | 4°25 | 20°53 | 18°56 | 18°41 | 2°36 | 7° 9 | S 9 |
| S 10 | 21 13 32 | 17° 7'46 | 18°35 | 24°32 | 19°40 | 21°25 | 22°24 | 24°56 | 23° 0 | 4°24 | 20°54 | 18°56 | 18°38 | 2°43 | 7° 6 | S 10 |
| M11 | 21 17 28 | 18° 5'26 | 0♊37 | 26°25 | 20°53 | 22° 1 | 22°37 | 25° 1 | 22°58 | 4°23 | 20°55 | 18°55 | 18°35 | 2°49 | 7° 4 | M11 |
| T 12 | 21 21 25 | 19° 3'07 | 12°29 | 28°18 | 22° 5 | 22°36 | 22°50 | 25° 5 | 22°56 | 4°22 | 20°55 | 18°54 | 18°31 | 2°56 | 7° 1 | T 12 |
| W13 | 21 25 21 | 20° 0'50 | 24°18 | 0♍ 9 | 23°18 | 23°12 | 23° 3 | 25° 9 | 22°54 | 4°21 | 20°56 | 18°51 | 18°28 | 3° 3 | 6°59 | W13 |
| T 14 | 21 29 18 | 20°58'34 | 6♋ 7 | 1°59 | 24°31 | 23°47 | 23°16 | 25°13 | 22°52 | 4°20 | 20°57 | 18°45 | 18°25 | 3°10 | 6°57 | T 14 |
| F 15 | 21 33 14 | 21°56'21 | 18° 1 | 3°47 | 25°43 | 24°22 | 23°29 | 25°18 | 22°50 | 4°19 | 20°58 | 18°36 | 18°22 | 3°16 | 6°55 | F 15 |
| S 16 | 21 37 11 | 22°54'08 | 0♌ 2 | 5°34 | 26°56 | 24°57 | 23°42 | 25°22 | 22°48 | 4°18 | 20°59 | 18°24 | 18°19 | 3°23 | 6°53 | S 16 |
| S 17 | 21 41 7 | 23°51'57 | 12°13 | 7°19 | 28° 9 | 25°31 | 23°56 | 25°27 | 22°46 | 4°17 | 20°59 | 18°12 | 18°15 | 3°30 | 6°51 | S 17 |
| M18 | 21 45 4 | 24°49'48 | 24°35 | 9° 3 | 29°22 | 26° 5 | 24° 9 | 25°31 | 22°44 | 4°16 | 21° 0 | 17°58 | 18°12 | 3°36 | 6°49 | M18 |
| T 19 | 21 49 1 | 25°47'40 | 7♍ 8 | 10°46 | 0♌34 | 26°40 | 24°22 | 25°36 | 22°42 | 4°15 | 21° 1 | 17°45 | 18° 9 | 3°43 | 6°47 | T 19 |
| W20 | 21 52 57 | 26°45'33 | 19°52 | 12°27 | 1°47 | 27°13 | 24°35 | 25°41 | 22°40 | 4°14 | 21° 2 | 17°34 | 18° 6 | 3°50 | 6°45 | W20 |
| T 21 | 21 56 54 | 27°43'28 | 2♎48 | 14° 7 | 3° 0 | 27°47 | 24°48 | 25°46 | 22°38 | 4°13 | 21° 2 | 17°25 | 18° 3 | 3°56 | 6°43 | T 21 |
| F 22 | 22 0 50 | 28°41'24 | 15°54 | 15°46 | 4°13 | 28°20 | 25° 1 | 25°51 | 22°36 | 4°13 | 21° 3 | 17°19 | 18° 0 | 4° 3 | 6°41 | F 22 |
| S 23 | 22 4 47 | 29°39'22 | 29°13 | 17°23 | 5°27 | 28°53 | 25°14 | 25°56 | 22°35 | 4°12 | 21° 3 | 17°16 | 17°56 | 4°10 | 6°40 | S 23 |
| S 24 | 22 8 43 | 0♍37'21 | 12♏43 | 18°59 | 6°40 | 29°26 | 25°27 | 26° 1 | 22°33 | 4°11 | 21° 4 | 17°D15 | 17°53 | 4°16 | 6°38 | S 24 |
| M25 | 22 12 40 | 1°35'21 | 26°28 | 20°34 | 7°53 | 29°58 | 25°40 | 26° 6 | 22°31 | 4°10 | 21° 5 | 17°R15 | 17°50 | 4°23 | 6°37 | M25 |
| T 26 | 22 16 36 | 2°33'23 | 10♐26 | 22° 7 | 9° 6 | 0♊31 | 25°53 | 26°11 | 22°30 | 4°10 | 21° 5 | 17°15 | 17°47 | 4°30 | 6°36 | T 26 |
| W27 | 22 20 33 | 3°31'26 | 24°39 | 23°40 | 10°19 | 1° 3 | 26° 6 | 26°16 | 22°28 | 4° 9 | 21° 6 | 17°13 | 17°44 | 4°36 | 6°34 | W27 |
| T 28 | 22 24 30 | 4°29'30 | 9♑ 5 | 25°10 | 11°33 | 1°34 | 26°19 | 26°21 | 22°26 | 4° 9 | 21° 6 | 17°10 | 17°41 | 4°43 | 6°33 | T 28 |
| F 29 | 22 28 26 | 5°27'36 | 23°41 | 26°40 | 12°46 | 2° 6 | 26°32 | 26°27 | 22°25 | 4° 8 | 21° 7 | 17° 3 | 17°37 | 4°50 | 6°32 | F 29 |
| S 30 | 22 32 23 | 6°25'43 | 8♒20 | 28° 8 | 14° 0 | 2°37 | 26°45 | 26°32 | 22°23 | 4° 7 | 21° 7 | 16°55 | 17°34 | 4°56 | 6°31 | S 30 |
| S 31 | 22 36 19 | 7♍23'52 | 22♒57 | 29♍35 | 15♌13 | 3♊ 8 | 26♌58 | 26♎38 | 22♑22 | 4♑ 7 | 21♊ 8 | 16♏45 | 17♏31 | 5♋ 3 | 6♑30 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18n10 | 18s39 | 4n 5 | 20n17 | 1n39 | 22n37 | 0s34 | 14n58 | 1s43 | 15n27 | 0n48 | 7s13 | 2n25 | 22s 0 | 0s32 | 22s25 | 1n 0 | 15n36 | 7s34 | 17s45 | 17s32 | 19n59 | 16s 5 | 7n11 |
| S 2 | 17 55 | 15 44 | 4 42 | 19 48 | 1 42 | 22 35 | 0 31 | 15 10 | 1 43 | 15 23 | 0 48 | 7 15 | 2 25 | 22 0 | 0 32 | 22 25 | 1 0 | 15 36 | 7 35 | 17 42 | 17 31 | 19 58 | 16 6 | 7 11 |
| S 3 | 17 40 | 11 48 | 5 0 | 19 16 | 1 44 | 22 32 | 0 28 | 15 21 | 1 42 | 15 19 | 0 48 | 7 16 | 2 25 | 22 0 | 0 32 | 22 25 | 1 0 | 15 36 | 7 35 | 17 40 | 17 30 | 19 57 | 16 6 | 7 11 |
| M 4 | 17 24 | 7 12 | 4 57 | 18 43 | 1 45 | 22 29 | 0 25 | 15 32 | 1 42 | 15 15 | 0 48 | 7 18 | 2 24 | 22 1 | 0 32 | 22 25 | 1 0 | 15 36 | 7 35 | 17 37 | 17 29 | 19 57 | 16 7 | 7 11 |
| T 5 | 17 8 | 2 19 | 4 35 | 18 9 | 1 46 | 22 25 | 0 22 | 15 42 | 1 41 | 15 11 | 0 48 | 7 19 | 2 24 | 22 1 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 34 | 17 28 | 19 56 | 16 7 | 7 10 |
| W 6 | 16 52 | 2n33 | 3 57 | 17 33 | 1 46 | 22 20 | 0 19 | 15 53 | 1 41 | 15 7 | 0 48 | 7 21 | 2 24 | 22 2 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 32 | 17 27 | 19 55 | 16 8 | 7 10 |
| T 7 | 16 35 | 7 8 | 3 7 | 16 55 | 1 45 | 22 15 | 0 16 | 16 3 | 1 40 | 15 3 | 0 48 | 7 22 | 2 24 | 22 2 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 30 | 17 27 | 19 54 | 16 8 | 7 10 |
| F 8 | 16 18 | 11 14 | 2 9 | 16 16 | 1 44 | 22 9 | 0 13 | 16 14 | 1 40 | 14 58 | 0 48 | 7 24 | 2 24 | 22 2 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 29 | 17 26 | 19 54 | 16 9 | 7 9 |
| S 9 | 16 1 | 14 42 | 1 6 | 15 37 | 1 42 | 22 2 | 0 11 | 16 24 | 1 39 | 14 54 | 0 48 | 7 26 | 2 23 | 22 3 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 29 | 17 25 | 19 53 | 16 9 | 7 9 |
| S 10 | 15 44 | 17 25 | 0 2 | 14 56 | 1 40 | 21 55 | 0 8 | 16 34 | 1 38 | 14 50 | 0 48 | 7 27 | 2 23 | 22 3 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 29 | 17 24 | 19 52 | 16 10 | 7 9 |
| M11 | 15 26 | 19 19 | 1s 2 | 14 15 | 1 37 | 21 47 | 0 5 | 16 44 | 1 38 | 14 46 | 0 48 | 7 29 | 2 23 | 22 3 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 29 | 17 23 | 19 51 | 16 10 | 7 8 |
| T 12 | 15 8 | 20 20 | 2 1 | 13 33 | 1 33 | 21 38 | 0 2 | 16 53 | 1 37 | 14 42 | 0 49 | 7 31 | 2 23 | 22 4 | 0 32 | 22 25 | 0 59 | 15 36 | 7 35 | 17 28 | 17 22 | 19 51 | 16 11 | 7 8 |
| W13 | 14 50 | 20 26 | 2 55 | 12 50 | 1 30 | 21 29 | 0n 1 | 17 3 | 1 37 | 14 37 | 0 49 | 7 32 | 2 22 | 22 4 | 0 32 | 22 25 | 0 59 | 15 36 | 7 36 | 17 27 | 17 21 | 19 50 | 16 11 | 7 7 |
| T 14 | 14 32 | 19 39 | 3 42 | 12 7 | 1 25 | 21 19 | 0 4 | 17 12 | 1 36 | 14 33 | 0 49 | 7 34 | 2 22 | 22 4 | 0 32 | 22 26 | 0 59 | 15 36 | 7 36 | 17 26 | 17 20 | 19 49 | 16 12 | 7 7 |
| F 15 | 14 13 | 17 59 | 4 19 | 11 23 | 1 20 | 21 9 | 0 6 | 17 21 | 1 35 | 14 29 | 0 49 | 7 36 | 2 22 | 22 5 | 0 32 | 22 26 | 0 59 | 15 36 | 7 36 | 17 23 | 17 20 | 19 48 | 16 12 | 7 7 |
| S 16 | 13 54 | 15 32 | 4 45 | 10 39 | 1 15 | 20 58 | 0 9 | 17 31 | 1 34 | 14 25 | 0 49 | 7 38 | 2 22 | 22 5 | 0 32 | 22 26 | 0 59 | 15 36 | 7 36 | 17 20 | 17 19 | 19 48 | 16 13 | 7 6 |
| S 17 | 13 35 | 12 23 | 4 59 | 9 55 | 1 10 | 20 46 | 0 12 | 17 39 | 1 34 | 14 20 | 0 49 | 7 40 | 2 22 | 22 5 | 0 32 | 22 26 | 0 59 | 15 36 | 7 36 | 17 17 | 17 18 | 19 47 | 16 13 | 7 6 |
| M18 | 13 16 | 8 40 | 4 58 | 9 11 | 1 4 | 20 34 | 0 15 | 17 48 | 1 33 | 14 16 | 0 49 | 7 41 | 2 21 | 22 6 | 0 32 | 22 26 | 0 59 | 15 36 | 7 36 | 17 13 | 17 17 | 19 46 | 16 14 | 7 5 |
| T 19 | 12 57 | 4 31 | 4 43 | 8 26 | 0 58 | 20 21 | 0 17 | 17 57 | 1 32 | 14 12 | 0 49 | 7 43 | 2 21 | 22 6 | 0 32 | 22 26 | 0 59 | 15 35 | 7 36 | 17 9 | 17 16 | 19 45 | 16 14 | 7 5 |
| W20 | 12 37 | 0 7 | 4 14 | 7 42 | 0 52 | 20 7 | 0 20 | 18 5 | 1 31 | 14 7 | 0 49 | 7 45 | 2 21 | 22 6 | 0 32 | 22 26 | 0 59 | 15 35 | 7 36 | 17 6 | 17 15 | 19 44 | 16 15 | 7 5 |
| T 21 | 12 17 | 4s21 | 3 32 | 6 57 | 0 45 | 19 53 | 0 23 | 18 14 | 1 31 | 14 3 | 0 49 | 7 47 | 2 21 | 22 7 | 0 32 | 22 26 | 0 59 | 15 35 | 7 36 | 17 4 | 17 14 | 19 44 | 16 15 | 7 4 |
| F 22 | 11 57 | 8 42 | 2 38 | 6 13 | 0 38 | 19 39 | 0 25 | 18 22 | 1 30 | 13 59 | 0 49 | 7 49 | 2 21 | 22 7 | 0 32 | 22 26 | 0 59 | 15 35 | 7 36 | 17 2 | 17 13 | 19 43 | 16 16 | 7 4 |
| S 23 | 11 37 | 12 41 | 1 34 | 5 28 | 0 31 | 19 24 | 0 28 | 18 30 | 1 29 | 13 54 | 0 49 | 7 51 | 2 20 | 22 7 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 17 1 | 17 12 | 19 42 | 16 16 | 7 3 |
| S 24 | 11 16 | 16 4 | 0 24 | 4 44 | 0 24 | 19 8 | 0 30 | 18 38 | 1 28 | 13 50 | 0 49 | 7 53 | 2 20 | 22 7 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 17 1 | 17 12 | 19 41 | 16 17 | 7 3 |
| M25 | 10 56 | 18 37 | 0n49 | 4 0 | 0 17 | 18 52 | 0 33 | 18 46 | 1 27 | 13 46 | 0 49 | 7 55 | 2 20 | 22 8 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 17 1 | 17 11 | 19 40 | 16 17 | 7 2 |
| T 26 | 10 35 | 20 5 | 2 0 | 3 16 | 0 9 | 18 35 | 0 35 | 18 53 | 1 26 | 13 41 | 0 49 | 7 57 | 2 20 | 22 8 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 17 1 | 17 10 | 19 39 | 16 18 | 7 2 |
| W27 | 10 14 | 20 18 | 3 5 | 2 33 | 0 1 | 18 17 | 0 38 | 19 1 | 1 26 | 13 37 | 0 50 | 7 59 | 2 20 | 22 8 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 17 0 | 17 9 | 19 39 | 16 18 | 7 1 |
| T 28 | 9 53 | 19 12 | 3 59 | 1 49 | 0s 7 | 18 0 | 0 40 | 19 8 | 1 25 | 13 33 | 0 50 | 8 1 | 2 19 | 22 8 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 16 59 | 17 8 | 19 38 | 16 19 | 7 1 |
| F 29 | 9 32 | 16 50 | 4 38 | 1 6 | 0 15 | 17 41 | 0 42 | 19 15 | 1 24 | 13 28 | 0 50 | 8 4 | 2 19 | 22 9 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 16 57 | 17 7 | 19 37 | 16 19 | 7 0 |
| S 30 | 9 10 | 13 24 | 4 59 | 0 24 | 0 23 | 17 22 | 0 45 | 19 22 | 1 23 | 13 24 | 0 50 | 8 6 | 2 19 | 22 9 | 0 32 | 22 26 | 0 59 | 15 35 | 7 37 | 16 55 | 17 6 | 19 36 | 16 20 | 7 0 |
| S 31 | 8n49 | 9s 9 | 5n 0 | 0s18 | 0s31 | 17n 3 | 0n47 | 19n29 | 1s22 | 13n20 | 0n50 | 8s 8 | 2n19 | 22s 9 | 0s32 | 22s27 | 0n59 | 15n35 | 7s37 | 16s52 | 17s 5 | 19n35 | 16s20 | 7n 0 |

Julian Day Number = 2327209.5, Delta T = 36.67 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'19, Lahiri = 19°06'20Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## SEPTEMBER 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 40 16 | 8♍22'02 | 7♓24 | 1♎ 1 | 16♌27 | 3♊38 | 27♌11 | 26♎43 | 22°R20 | 4°R 6 | 21♊ 8 | 16°R34 | 17♏28 | 5♋10 | 6°R29 | M 1 |
| T 2 | 22 44 12 | 9°20'14 | 21°34 | 2°25 | 17°40 | 4° 8 | 27°24 | 26°49 | 22♑19 | 4♑ 6 | 21° 9 | 16♏24 | 17°25 | 5°17 | 6♑28 | T 2 |
| W 3 | 22 48 9 | 10°18'28 | 5♈22 | 3°48 | 18°54 | 4°38 | 27°37 | 26°54 | 22°18 | 4° 6 | 21° 9 | 16°16 | 17°21 | 5°23 | 6°27 | W 3 |
| T 4 | 22 52 5 | 11°16'44 | 18°45 | 5° 9 | 20° 7 | 5° 8 | 27°50 | 27° 0 | 22°16 | 4° 5 | 21°10 | 16°11 | 17°18 | 5°30 | 6°27 | T 4 |
| F 5 | 22 56 2 | 12°15'02 | 1♉44 | 6°29 | 21°21 | 5°37 | 28° 3 | 27° 6 | 22°15 | 4° 5 | 21°10 | 16° 8 | 17°15 | 5°37 | 6°26 | F 5 |
| S 6 | 22 59 59 | 13°13'22 | 14°21 | 7°48 | 22°35 | 6° 6 | 28°16 | 27°12 | 22°14 | 4° 4 | 21°10 | 16°D 7 | 17°12 | 5°43 | 6°26 | S 6 |
| S 7 | 23 3 55 | 14°11'44 | 26°38 | 9° 5 | 23°49 | 6°34 | 28°28 | 27°18 | 22°13 | 4° 4 | 21°11 | 16° 7 | 17° 9 | 5°50 | 6°25 | S 7 |
| M 8 | 23 7 52 | 15°10'08 | 8♊41 | 10°20 | 25° 3 | 7° 2 | 28°41 | 27°24 | 22°11 | 4° 4 | 21°11 | 16° 8 | 17° 6 | 5°57 | 6°25 | M 8 |
| T 9 | 23 11 48 | 16° 8'34 | 20°35 | 11°34 | 26°16 | 7°30 | 28°54 | 27°30 | 22°10 | 4° 4 | 21°11 | 16°R 8 | 17° 2 | 6° 3 | 6°25 | T 9 |
| W10 | 23 15 45 | 17° 7'02 | 2♋25 | 12°46 | 27°30 | 7°57 | 29° 7 | 27°36 | 22° 9 | 4° 3 | 21°11 | 16° 7 | 16°59 | 6°10 | 6°24 | W10 |
| T 11 | 23 19 41 | 18° 5'33 | 14°17 | 13°56 | 28°44 | 8°25 | 29°19 | 27°42 | 22° 8 | 4° 3 | 21°12 | 16° 3 | 16°56 | 6°17 | 6°24 | T 11 |
| F 12 | 23 23 38 | 19° 4'06 | 26°14 | 15° 5 | 29°58 | 8°51 | 29°32 | 27°48 | 22° 7 | 4° 3 | 21°12 | 15°57 | 16°53 | 6°23 | 6°D24 | F 12 |
| S 13 | 23 27 34 | 20° 2'41 | 8♌21 | 16°11 | 1♍12 | 9°17 | 29°45 | 27°54 | 22° 6 | 4° 3 | 21°12 | 15°50 | 16°50 | 6°30 | 6°24 | S 13 |
| S 14 | 23 31 31 | 21° 1'18 | 20°41 | 17°15 | 2°27 | 9°43 | 29°57 | 28° 0 | 22° 5 | 4° 3 | 21°12 | 15°40 | 16°47 | 6°37 | 6°24 | S 14 |
| M15 | 23 35 28 | 21°59'57 | 3♍15 | 18°17 | 3°41 | 10° 9 | 0♍10 | 28° 6 | 22° 5 | 4° 3 | 21°12 | 15°30 | 16°43 | 6°43 | 6°25 | M15 |
| T 16 | 23 39 24 | 22°58'38 | 16° 4 | 19°16 | 4°55 | 10°34 | 0°23 | 28°13 | 22° 4 | 4°D 3 | 21°12 | 15°21 | 16°40 | 6°50 | 6°25 | T 16 |
| W17 | 23 43 21 | 23°57'21 | 29° 7 | 20°13 | 6° 9 | 10°58 | 0°35 | 28°19 | 22° 3 | 4° 3 | 21°13 | 15°12 | 16°37 | 6°57 | 6°25 | W17 |
| T 18 | 23 47 17 | 24°56'05 | 12♎25 | 21° 7 | 7°23 | 11°22 | 0°48 | 28°25 | 22° 2 | 4° 3 | 21°13 | 15° 6 | 16°34 | 7° 4 | 6°26 | T 18 |
| F 19 | 23 51 14 | 25°54'52 | 25°54 | 21°58 | 8°38 | 11°46 | 1° 0 | 28°32 | 22° 2 | 4° 3 | 21°13 | 15° 2 | 16°31 | 7°10 | 6°26 | F 19 |
| S 20 | 23 55 10 | 26°53'41 | 9♏33 | 22°45 | 9°52 | 12° 9 | 1°12 | 28°38 | 22° 1 | 4° 3 | 21°13 | 15°D 1 | 16°27 | 7°17 | 6°27 | S 20 |
| S 21 | 23 59 7 | 27°52'32 | 23°22 | 23°29 | 11° 7 | 12°32 | 1°25 | 28°45 | 22° 0 | 4° 3 | 21°R13 | 15° 1 | 16°24 | 7°24 | 6°28 | S 21 |
| M22 | 0 3 3 | 28°51'24 | 7♐18 | 24° 9 | 12°21 | 12°54 | 1°37 | 28°51 | 22° 0 | 4° 4 | 21°13 | 15° 2 | 16°21 | 7°30 | 6°28 | M22 |
| T 23 | 0 7 0 | 29°50'18 | 21°21 | 24°45 | 13°35 | 13°16 | 1°49 | 28°58 | 22° 0 | 4° 4 | 21°13 | 15° 3 | 16°18 | 7°37 | 6°29 | T 23 |
| W24 | 0 10 56 | 0♎49'14 | 5♑29 | 25°16 | 14°50 | 13°37 | 2° 2 | 29° 5 | 21°59 | 4° 4 | 21°13 | 15°R 3 | 16°15 | 7°44 | 6°30 | W24 |
| T 25 | 0 14 53 | 1°48'12 | 19°42 | 25°42 | 16° 4 | 13°58 | 2°14 | 29°11 | 21°59 | 4° 4 | 21°13 | 15° 2 | 16°12 | 7°50 | 6°31 | T 25 |
| F 26 | 0 18 50 | 2°47'11 | 3♒57 | 26° 3 | 17°19 | 14°18 | 2°26 | 29°18 | 21°58 | 4° 5 | 21°12 | 14°58 | 16° 8 | 7°57 | 6°32 | F 26 |
| S 27 | 0 22 46 | 3°46'12 | 18°11 | 26°18 | 18°33 | 14°38 | 2°38 | 29°25 | 21°58 | 4° 5 | 21°12 | 14°53 | 16° 5 | 8° 4 | 6°34 | S 27 |
| S 28 | 0 26 43 | 4°45'15 | 2♓20 | 26°27 | 19°48 | 14°57 | 2°50 | 29°32 | 21°58 | 4° 5 | 21°12 | 14°47 | 16° 2 | 8°10 | 6°35 | S 28 |
| M29 | 0 30 39 | 5°44'19 | 16°20 | 26°R29 | 21° 3 | 15°15 | 3° 2 | 29°38 | 21°58 | 4° 6 | 21°12 | 14°41 | 15°59 | 8°17 | 6°36 | M29 |
| T 30 | 0 34 36 | 6♎43'26 | 0♈ 7 | 26♎24 | 22♍17 | 15♊34 | 3♍14 | 29♎45 | 21♑58 | 4♑ 6 | 21♊12 | 14♏35 | 15♏56 | 8♋24 | 6♑38 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 8n27 | 4s26 | 4n43 | 1s 0 | 0s39 | 16n43 | 0n49 | 19n36 | 1s21 | 13n15 | 0n50 | 8s10 | 2n19 | 22s 9 | 0s32 | 22s27 | 0n59 | 15n34 | 7s38 | 16s49 | 17s 4 | 19n34 | 16s21 | 6n59 | M 1 |
| T 2 | 8 5 | 0n27 | 4 8 | 1 41 | 0 47 | 16 23 | 0 51 | 19 42 | 1 20 | 13 11 | 0 50 | 8 12 | 2 18 | 22 10 | 0 32 | 22 27 | 0 58 | 15 34 | 7 38 | 16 46 | 17 4 | 19 34 | 16 21 | 6 59 | T 2 |
| W 3 | 7 43 | 5 11 | 3 19 | 2 22 | 0 56 | 16 2 | 0 53 | 19 49 | 1 19 | 13 6 | 0 50 | 8 14 | 2 18 | 22 10 | 0 32 | 22 27 | 0 58 | 15 34 | 7 38 | 16 44 | 17 3 | 19 33 | 16 22 | 6 58 | W 3 |
| T 4 | 7 21 | 9 31 | 2 20 | 3 2 | 1 4 | 15 41 | 0 55 | 19 55 | 1 18 | 13 2 | 0 50 | 8 17 | 2 18 | 22 10 | 0 32 | 22 27 | 0 58 | 15 34 | 7 38 | 16 43 | 17 2 | 19 32 | 16 22 | 6 58 | T 4 |
| F 5 | 6 59 | 13 17 | 1 16 | 3 41 | 1 13 | 15 19 | 0 57 | 20 1 | 1 17 | 12 58 | 0 50 | 8 19 | 2 18 | 22 10 | 0 32 | 22 27 | 0 58 | 15 34 | 7 38 | 16 42 | 17 1 | 19 31 | 16 23 | 6 57 | F 5 |
| S 6 | 6 36 | 16 19 | 0 9 | 4 20 | 1 21 | 14 57 | 0 59 | 20 7 | 1 15 | 12 53 | 0 50 | 8 21 | 2 18 | 22 10 | 0 32 | 22 27 | 0 58 | 15 34 | 7 38 | 16 41 | 17 0 | 19 30 | 16 23 | 6 57 | S 6 |
| S 7 | 6 14 | 18 32 | 0s56 | 4 58 | 1 29 | 14 34 | 1 1 | 20 13 | 1 14 | 12 49 | 0 50 | 8 23 | 2 18 | 22 11 | 0 32 | 22 27 | 0 58 | 15 34 | 7 38 | 16 41 | 16 59 | 19 29 | 16 24 | 6 56 | S 7 |
| M 8 | 5 51 | 19 51 | 1 58 | 5 36 | 1 38 | 14 11 | 1 3 | 20 19 | 1 13 | 12 45 | 0 51 | 8 25 | 2 17 | 22 11 | 0 32 | 22 27 | 0 58 | 15 34 | 7 38 | 16 42 | 16 58 | 19 28 | 16 24 | 6 56 | M 8 |
| T 9 | 5 29 | 20 16 | 2 54 | 6 12 | 1 46 | 13 48 | 1 5 | 20 25 | 1 12 | 12 40 | 0 51 | 8 28 | 2 17 | 22 11 | 0 32 | 22 27 | 0 58 | 15 34 | 7 39 | 16 42 | 16 57 | 19 28 | 16 25 | 6 55 | T 9 |
| W10 | 5 6 | 19 46 | 3 42 | 6 48 | 1 54 | 13 24 | 1 6 | 20 31 | 1 11 | 12 36 | 0 51 | 8 30 | 2 17 | 22 11 | 0 32 | 22 27 | 0 58 | 15 34 | 7 39 | 16 41 | 16 56 | 19 27 | 16 26 | 6 55 | W10 |
| T 11 | 4 43 | 18 24 | 4 20 | 7 23 | 2 2 | 13 0 | 1 8 | 20 36 | 1 10 | 12 31 | 0 51 | 8 32 | 2 17 | 22 11 | 0 32 | 22 27 | 0 58 | 15 33 | 7 39 | 16 40 | 16 55 | 19 26 | 16 26 | 6 54 | T 11 |
| F 12 | 4 20 | 16 14 | 4 48 | 7 57 | 2 10 | 12 35 | 1 10 | 20 41 | 1 8 | 12 27 | 0 51 | 8 35 | 2 17 | 22 11 | 0 32 | 22 27 | 0 58 | 15 33 | 7 39 | 16 39 | 16 55 | 19 25 | 16 27 | 6 54 | F 12 |
| S 13 | 3 57 | 13 20 | 5 3 | 8 30 | 2 18 | 12 10 | 1 11 | 20 47 | 1 7 | 12 23 | 0 51 | 8 37 | 2 17 | 22 12 | 0 32 | 22 27 | 0 58 | 15 33 | 7 39 | 16 36 | 16 54 | 19 24 | 16 27 | 6 53 | S 13 |
| S 14 | 3 34 | 9 49 | 5 4 | 9 2 | 2 26 | 11 45 | 1 13 | 20 52 | 1 6 | 12 18 | 0 51 | 8 39 | 2 17 | 22 12 | 0 32 | 22 27 | 0 58 | 15 33 | 7 39 | 16 34 | 16 53 | 19 23 | 16 28 | 6 52 | S 14 |
| M15 | 3 11 | 5 48 | 4 51 | 9 33 | 2 34 | 11 19 | 1 14 | 20 57 | 1 5 | 12 14 | 0 51 | 8 42 | 2 16 | 22 12 | 0 32 | 22 27 | 0 58 | 15 33 | 7 39 | 16 31 | 16 52 | 19 22 | 16 28 | 6 52 | M15 |
| T 16 | 2 48 | 1 28 | 4 23 | 10 2 | 2 41 | 10 54 | 1 15 | 21 2 | 1 3 | 12 10 | 0 51 | 8 44 | 2 16 | 22 12 | 0 32 | 22 27 | 0 58 | 15 33 | 7 39 | 16 28 | 16 51 | 19 21 | 16 29 | 6 51 | T 16 |
| W17 | 2 24 | 3s 2 | 3 41 | 10 30 | 2 48 | 10 27 | 1 17 | 21 6 | 1 2 | 12 5 | 0 52 | 8 46 | 2 16 | 22 12 | 0 32 | 22 27 | 0 58 | 15 33 | 7 40 | 16 26 | 16 50 | 19 20 | 16 29 | 6 51 | W17 |
| T 18 | 2 1 | 7 28 | 2 46 | 10 57 | 2 55 | 10 1 | 1 18 | 21 11 | 1 0 | 12 1 | 0 52 | 8 49 | 2 16 | 22 12 | 0 32 | 22 27 | 0 58 | 15 33 | 7 40 | 16 24 | 16 49 | 19 19 | 16 30 | 6 50 | T 18 |
| F 19 | 1 38 | 11 36 | 1 41 | 11 22 | 3 1 | 9 34 | 1 19 | 21 16 | 0 59 | 11 57 | 0 52 | 8 51 | 2 16 | 22 12 | 0 32 | 22 27 | 0 58 | 15 33 | 7 40 | 16 23 | 16 48 | 19 19 | 16 30 | 6 50 | F 19 |
| S 20 | 1 14 | 15 10 | 0 29 | 11 46 | 3 8 | 9 7 | 1 20 | 21 20 | 0 58 | 11 52 | 0 52 | 8 54 | 2 16 | 22 12 | 0 32 | 22 27 | 0 58 | 15 32 | 7 40 | 16 22 | 16 47 | 19 18 | 16 31 | 6 49 | S 20 |
| S 21 | 0 51 | 17 55 | 0n45 | 12 8 | 3 13 | 8 40 | 1 21 | 21 25 | 0 56 | 11 48 | 0 52 | 8 56 | 2 16 | 22 12 | 0 32 | 22 28 | 0 58 | 15 32 | 7 40 | 16 22 | 16 46 | 19 17 | 16 31 | 6 49 | S 21 |
| M22 | 0 27 | 19 38 | 1 58 | 12 27 | 3 19 | 8 12 | 1 22 | 21 29 | 0 55 | 11 44 | 0 52 | 8 58 | 2 16 | 22 12 | 0 32 | 22 28 | 0 58 | 15 32 | 7 40 | 16 22 | 16 45 | 19 16 | 16 32 | 6 48 | M22 |
| T 23 | 0 4 | 20 9 | 3 4 | 12 45 | 3 23 | 7 44 | 1 23 | 21 33 | 0 53 | 11 39 | 0 52 | 9 1 | 2 15 | 22 12 | 0 32 | 22 28 | 0 58 | 15 32 | 7 40 | 16 23 | 16 45 | 19 15 | 16 32 | 6 48 | T 23 |
| W24 | 0s20 | 19 23 | 3 59 | 13 1 | 3 28 | 7 16 | 1 24 | 21 37 | 0 52 | 11 35 | 0 52 | 9 3 | 2 15 | 22 12 | 0 32 | 22 28 | 0 58 | 15 32 | 7 40 | 16 23 | 16 44 | 19 14 | 16 32 | 6 47 | W24 |
| T 25 | 0 43 | 17 25 | 4 40 | 13 14 | 3 31 | 6 48 | 1 24 | 21 41 | 0 50 | 11 31 | 0 52 | 9 6 | 2 15 | 22 13 | 0 32 | 22 28 | 0 58 | 15 32 | 7 41 | 16 22 | 16 43 | 19 13 | 16 33 | 6 47 | T 25 |
| F 26 | 1 7 | 14 23 | 5 4 | 13 24 | 3 34 | 6 20 | 1 25 | 21 45 | 0 48 | 11 27 | 0 53 | 9 8 | 2 15 | 22 13 | 0 32 | 22 28 | 0 57 | 15 32 | 7 41 | 16 21 | 16 42 | 19 12 | 16 33 | 6 46 | F 26 |
| S 27 | 1 30 | 10 30 | 5 9 | 13 31 | 3 36 | 5 51 | 1 26 | 21 49 | 0 47 | 11 22 | 0 53 | 9 11 | 2 15 | 22 13 | 0 32 | 22 28 | 0 57 | 15 32 | 7 41 | 16 20 | 16 41 | 19 11 | 16 34 | 6 46 | S 27 |
| S 28 | 1 54 | 6 4 | 4 55 | 13 35 | 3 37 | 5 22 | 1 26 | 21 53 | 0 45 | 11 18 | 0 53 | 9 13 | 2 15 | 22 13 | 0 32 | 22 28 | 0 57 | 15 31 | 7 41 | 16 18 | 16 40 | 19 10 | 16 34 | 6 45 | S 28 |
| M29 | 2 17 | 1 21 | 4 24 | 13 36 | 3 37 | 4 53 | 1 27 | 21 57 | 0 43 | 11 14 | 0 53 | 9 16 | 2 15 | 22 13 | 0 32 | 22 28 | 0 57 | 15 31 | 7 41 | 16 16 | 16 39 | 19 9 | 16 35 | 6 45 | M29 |
| T 30 | 2s40 | 3n22 | 3n38 | 13s33 | 3s35 | 4n24 | 1n27 | 22n 0 | 0s42 | 11n10 | 0n53 | 9s18 | 2n15 | 22s13 | 0s32 | 22s28 | 0n57 | 15n31 | 7s41 | 16s15 | 16s38 | 19n 8 | 16s35 | 6n44 | T 30 |

Julian Day Number = 2327240.5, Delta T = 36.61 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'24, Lahiri = 19°06'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## OCTOBER 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 38 32 | 7♎42'34 | 13♈36 | 26°R12 | 23♍32 | 15♊51 | 3♍26 | 29♎52 | 21°R58 | 4♑ 7 | 21°R12 | 14°R30 | 15♏52 | 8♋31 | 6♑39 | W 1 |
| T 2 | 0 42 29 | 8°41'45 | 26°47 | 25♎52 | 24°47 | 16° 8 | 3°37 | 29°59 | 21°D58 | 4° 7 | 21♊11 | 14♏27 | 15°49 | 8°37 | 6°41 | T 2 |
| F 3 | 0 46 25 | 9°40'58 | 9♉38 | 25°24 | 26° 2 | 16°24 | 3°49 | 0♏ 6 | 21♑58 | 4° 8 | 21°11 | 14°D26 | 15°46 | 8°44 | 6°42 | F 3 |
| S 4 | 0 50 22 | 10°40'13 | 22°11 | 24°47 | 27°16 | 16°40 | 4° 1 | 0°13 | 21°58 | 4° 8 | 21°11 | 14°26 | 15°43 | 8°51 | 6°44 | S 4 |
| S 5 | 0 54 19 | 11°39'30 | 4♊27 | 24° 3 | 28°31 | 16°55 | 4°13 | 0°20 | 21°58 | 4° 9 | 21°11 | 14°27 | 15°40 | 8°57 | 6°46 | S 5 |
| M 6 | 0 58 15 | 12°38'50 | 16°31 | 23°11 | 29°46 | 17° 9 | 4°24 | 0°27 | 21°58 | 4°10 | 21°10 | 14°29 | 15°37 | 9° 4 | 6°48 | M 6 |
| T 7 | 1 2 12 | 13°38'12 | 28°26 | 22°13 | 1♏ 1 | 17°23 | 4°36 | 0°34 | 21°58 | 4°10 | 21°10 | 14°31 | 15°33 | 9°11 | 6°50 | T 7 |
| W 8 | 1 6 8 | 14°37'36 | 10♋17 | 21° 8 | 2°16 | 17°36 | 4°47 | 0°41 | 21°59 | 4°11 | 21°10 | 14°R31 | 15°30 | 9°17 | 6°52 | W 8 |
| T 9 | 1 10 5 | 15°37'03 | 22°10 | 19°59 | 3°31 | 17°48 | 4°58 | 0°48 | 21°59 | 4°12 | 21° 9 | 14°31 | 15°27 | 9°24 | 6°54 | T 9 |
| F 10 | 1 14 1 | 16°36'31 | 4♌ 8 | 18°47 | 4°46 | 18° 0 | 5°10 | 0°55 | 22° 0 | 4°13 | 21° 9 | 14°30 | 15°24 | 9°31 | 6°56 | F 10 |
| S 11 | 1 17 58 | 17°36'02 | 16°17 | 17°34 | 6° 1 | 18°11 | 5°21 | 1° 2 | 22° 0 | 4°13 | 21° 8 | 14°27 | 15°21 | 9°38 | 6°59 | S 11 |
| S 12 | 1 21 54 | 18°35'36 | 28°40 | 16°21 | 7°16 | 18°21 | 5°32 | 1° 9 | 22° 0 | 4°14 | 21° 8 | 14°24 | 15°18 | 9°44 | 7° 1 | S 12 |
| M13 | 1 25 51 | 19°35'11 | 11♍21 | 15°12 | 8°31 | 18°31 | 5°43 | 1°16 | 22° 1 | 4°15 | 21° 8 | 14°20 | 15°14 | 9°51 | 7° 3 | M13 |
| T 14 | 1 29 48 | 20°34'49 | 24°21 | 14° 8 | 9°46 | 18°40 | 5°54 | 1°23 | 22° 2 | 4°16 | 21° 7 | 14°16 | 15°11 | 9°58 | 7° 6 | T 14 |
| W15 | 1 33 44 | 21°34'29 | 7♎41 | 13°12 | 11° 1 | 18°48 | 6° 5 | 1°30 | 22° 2 | 4°17 | 21° 7 | 14°13 | 15° 8 | 10° 4 | 7° 8 | W15 |
| T 16 | 1 37 41 | 22°34'11 | 21°19 | 12°23 | 12°16 | 18°55 | 6°16 | 1°38 | 22° 3 | 4°18 | 21° 6 | 14°10 | 15° 5 | 10°11 | 7°11 | T 16 |
| F 17 | 1 41 37 | 23°33'55 | 5♏13 | 11°45 | 13°31 | 19° 1 | 6°27 | 1°45 | 22° 4 | 4°19 | 21° 5 | 14° 9 | 15° 2 | 10°18 | 7°14 | F 17 |
| S 18 | 1 45 34 | 24°33'41 | 19°20 | 11°18 | 14°46 | 19° 7 | 6°37 | 1°52 | 22° 5 | 4°20 | 21° 5 | 14°D 9 | 14°58 | 10°24 | 7°17 | S 18 |
| S 19 | 1 49 30 | 25°33'29 | 3♐35 | 11° 2 | 16° 1 | 19°12 | 6°48 | 1°59 | 22° 5 | 4°21 | 21° 4 | 14°10 | 14°55 | 10°31 | 7°20 | S 19 |
| M20 | 1 53 27 | 26°33'19 | 17°55 | 10°D57 | 17°16 | 19°16 | 6°58 | 2° 6 | 22° 6 | 4°22 | 21° 4 | 14°11 | 14°52 | 10°38 | 7°22 | M20 |
| T 21 | 1 57 23 | 27°33'10 | 2♑14 | 11° 3 | 18°31 | 19°19 | 7° 9 | 2°13 | 22° 7 | 4°23 | 21° 3 | 14°12 | 14°49 | 10°44 | 7°26 | T 21 |
| W22 | 2 1 20 | 28°33'03 | 16°31 | 11°20 | 19°47 | 19°22 | 7°19 | 2°21 | 22° 8 | 4°24 | 21° 2 | 14°13 | 14°46 | 10°51 | 7°29 | W22 |
| T 23 | 2 5 17 | 29°32'58 | 0♒43 | 11°47 | 21° 2 | 19°23 | 7°29 | 2°28 | 22° 9 | 4°26 | 21° 2 | 14°R13 | 14°43 | 10°58 | 7°32 | T 23 |
| F 24 | 2 9 13 | 0♏32'54 | 14°46 | 12°24 | 22°17 | 19°R24 | 7°39 | 2°35 | 22°11 | 4°27 | 21° 1 | 14°13 | 14°39 | 11° 5 | 7°35 | F 24 |
| S 25 | 2 13 10 | 1°32'52 | 28°41 | 13° 9 | 23°32 | 19°24 | 7°49 | 2°42 | 22°12 | 4°28 | 21° 0 | 14°12 | 14°36 | 11°11 | 7°38 | S 25 |
| S 26 | 2 17 6 | 2°32'52 | 12♓25 | 14° 2 | 24°48 | 19°23 | 7°59 | 2°50 | 22°13 | 4°29 | 21° 0 | 14°10 | 14°33 | 11°18 | 7°42 | S 26 |
| M27 | 2 21 3 | 3°32'53 | 25°57 | 15° 1 | 26° 3 | 19°21 | 8° 9 | 2°57 | 22°14 | 4°31 | 20°59 | 14° 9 | 14°30 | 11°25 | 7°45 | M27 |
| T 28 | 2 24 59 | 4°32'56 | 9♈16 | 16° 6 | 27°18 | 19°18 | 8°19 | 3° 4 | 22°15 | 4°32 | 20°58 | 14° 8 | 14°27 | 11°31 | 7°48 | T 28 |
| W29 | 2 28 56 | 5°33'00 | 22°22 | 17°17 | 28°33 | 19°14 | 8°29 | 3°11 | 22°17 | 4°33 | 20°57 | 14° 7 | 14°23 | 11°38 | 7°52 | W29 |
| T 30 | 2 32 52 | 6°33'07 | 5♉13 | 18°32 | 29°49 | 19°10 | 8°38 | 3°18 | 22°18 | 4°35 | 20°57 | 14° 6 | 14°20 | 11°45 | 7°56 | T 30 |
| F 31 | 2 36 49 | 7♏33'15 | 17♉50 | 19♎51 | 1♏ 4 | 19♊ 4 | 8♍47 | 3♏26 | 22♑20 | 4♑36 | 20♊56 | 14°D 6 | 14♏17 | 11♋51 | 7♑59 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s 4 | 7n50 | 2n40 | 13s26 | 3s33 | 3n55 | 1n28 | 22n 4 | 0s40 | 11n 6 | 0n53 | 9s21 | 2n15 | 22s13 | 0s32 | 22s28 | 0n57 | 15n31 | 7s41 | 16s13 | 16s37 | 19n 7 | 16s36 | 6n44 |
| T 2 | 3 27 | 11 49 | 1 35 | 13 15 | 3 29 | 3 25 | 1 28 | 22 8 | 0 38 | 11 2 | 0 53 | 9 23 | 2 15 | 22 13 | 0 32 | 22 28 | 0 57 | 15 31 | 7 41 | 16 12 | 16 36 | 19 6 | 16 36 | 6 43 |
| F 3 | 3 51 | 15 8 | 0 26 | 12 59 | 3 23 | 2 56 | 1 28 | 22 11 | 0 36 | 10 57 | 0 54 | 9 26 | 2 14 | 22 13 | 0 32 | 22 28 | 0 57 | 15 31 | 7 42 | 16 12 | 16 35 | 19 5 | 16 37 | 6 43 |
| S 4 | 4 14 | 17 40 | 0s42 | 12 39 | 3 15 | 2 26 | 1 28 | 22 15 | 0 34 | 10 53 | 0 54 | 9 28 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 31 | 7 42 | 16 12 | 16 34 | 19 4 | 16 37 | 6 42 |
| S 5 | 4 37 | 19 19 | 1 47 | 12 14 | 3 6 | 1 56 | 1 28 | 22 18 | 0 32 | 10 49 | 0 54 | 9 31 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 30 | 7 42 | 16 12 | 16 34 | 19 4 | 16 37 | 6 42 |
| M 6 | 5 0 | 20 2 | 2 47 | 11 44 | 2 55 | 1 27 | 1 28 | 22 21 | 0 31 | 10 45 | 0 54 | 9 33 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 30 | 7 42 | 16 13 | 16 33 | 19 3 | 16 38 | 6 41 |
| T 7 | 5 23 | 19 50 | 3 38 | 11 10 | 2 42 | 0 57 | 1 28 | 22 24 | 0 29 | 10 41 | 0 54 | 9 36 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 30 | 7 42 | 16 13 | 16 32 | 19 2 | 16 38 | 6 41 |
| W 8 | 5 46 | 18 46 | 4 20 | 10 32 | 2 28 | 0 27 | 1 28 | 22 28 | 0 27 | 10 37 | 0 54 | 9 38 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 30 | 7 42 | 16 13 | 16 31 | 19 1 | 16 39 | 6 40 |
| T 9 | 6 9 | 16 53 | 4 50 | 9 51 | 2 11 | 0s 3 | 1 28 | 22 31 | 0 25 | 10 33 | 0 54 | 9 41 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 30 | 7 42 | 16 13 | 16 30 | 19 0 | 16 39 | 6 40 |
| F 10 | 6 32 | 14 15 | 5 9 | 9 7 | 1 53 | 0 33 | 1 28 | 22 34 | 0 23 | 10 29 | 0 55 | 9 43 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 30 | 7 42 | 16 13 | 16 29 | 18 59 | 16 39 | 6 39 |
| S 11 | 6 55 | 11 0 | 5 14 | 8 21 | 1 34 | 1 3 | 1 27 | 22 37 | 0 20 | 10 25 | 0 55 | 9 46 | 2 14 | 22 12 | 0 32 | 22 28 | 0 57 | 15 30 | 7 42 | 16 12 | 16 28 | 18 58 | 16 40 | 6 39 |
| S 12 | 7 18 | 7 12 | 5 4 | 7 35 | 1 14 | 1 33 | 1 27 | 22 40 | 0 18 | 10 21 | 0 55 | 9 48 | 2 14 | 22 12 | 0 31 | 22 28 | 0 57 | 15 30 | 7 43 | 16 11 | 16 27 | 18 57 | 16 40 | 6 38 |
| M13 | 7 41 | 3 0 | 4 40 | 6 49 | 0 53 | 2 3 | 1 26 | 22 43 | 0 16 | 10 17 | 0 55 | 9 51 | 2 14 | 22 12 | 0 31 | 22 28 | 0 57 | 15 29 | 7 43 | 16 10 | 16 26 | 18 56 | 16 40 | 6 38 |
| T 14 | 8 3 | 1s26 | 4 1 | 6 5 | 0 33 | 2 33 | 1 26 | 22 46 | 0 14 | 10 13 | 0 55 | 9 53 | 2 14 | 22 12 | 0 31 | 22 28 | 0 57 | 15 29 | 7 43 | 16 9 | 16 25 | 18 55 | 16 41 | 6 37 |
| W15 | 8 26 | 5 55 | 3 8 | 5 24 | 0 12 | 3 3 | 1 25 | 22 49 | 0 12 | 10 9 | 0 55 | 9 56 | 2 14 | 22 12 | 0 31 | 22 28 | 0 57 | 15 29 | 7 43 | 16 8 | 16 24 | 18 54 | 16 41 | 6 37 |
| T 16 | 8 48 | 10 13 | 2 3 | 4 47 | 0n 7 | 3 33 | 1 25 | 22 52 | 0 9 | 10 5 | 0 56 | 9 58 | 2 14 | 22 11 | 0 31 | 22 28 | 0 57 | 15 29 | 7 43 | 16 7 | 16 23 | 18 53 | 16 41 | 6 36 |
| F 17 | 9 10 | 14 3 | 0 49 | 4 15 | 0 26 | 4 3 | 1 24 | 22 55 | 0 7 | 10 2 | 0 56 | 10 1 | 2 14 | 22 11 | 0 31 | 22 28 | 0 57 | 15 29 | 7 43 | 16 7 | 16 22 | 18 52 | 16 42 | 6 36 |
| S 18 | 9 32 | 17 8 | 0n29 | 3 49 | 0 43 | 4 33 | 1 23 | 22 57 | 0 5 | 9 58 | 0 56 | 10 3 | 2 14 | 22 11 | 0 31 | 22 28 | 0 57 | 15 29 | 7 43 | 16 7 | 16 21 | 18 51 | 16 42 | 6 35 |
| S 19 | 9 54 | 19 11 | 1 45 | 3 28 | 0 59 | 5 3 | 1 22 | 23 0 | 0 2 | 9 54 | 0 56 | 10 6 | 2 14 | 22 11 | 0 31 | 22 28 | 0 57 | 15 29 | 7 43 | 16 7 | 16 20 | 18 50 | 16 42 | 6 35 |
| M20 | 10 16 | 20 1 | 2 56 | 3 13 | 1 14 | 5 32 | 1 21 | 23 3 | 0n 0 | 9 50 | 0 56 | 10 8 | 2 13 | 22 11 | 0 31 | 22 28 | 0 56 | 15 28 | 7 43 | 16 7 | 16 20 | 18 49 | 16 43 | 6 34 |
| T 21 | 10 37 | 19 32 | 3 56 | 3 4 | 1 26 | 6 2 | 1 20 | 23 6 | 0 3 | 9 47 | 0 56 | 10 11 | 2 13 | 22 11 | 0 31 | 22 28 | 0 56 | 15 28 | 7 43 | 16 8 | 16 19 | 18 48 | 16 43 | 6 34 |
| W22 | 10 59 | 17 49 | 4 40 | 3 0 | 1 37 | 6 31 | 1 19 | 23 8 | 0 5 | 9 43 | 0 57 | 10 13 | 2 13 | 22 10 | 0 31 | 22 28 | 0 56 | 15 28 | 7 44 | 16 8 | 16 18 | 18 47 | 16 43 | 6 34 |
| T 23 | 11 20 | 15 1 | 5 8 | 3 2 | 1 46 | 7 1 | 1 18 | 23 11 | 0 8 | 9 39 | 0 57 | 10 16 | 2 13 | 22 10 | 0 31 | 22 28 | 0 56 | 15 28 | 7 44 | 16 8 | 16 17 | 18 46 | 16 44 | 6 33 |
| F 24 | 11 41 | 11 23 | 5 16 | 3 10 | 1 54 | 7 30 | 1 17 | 23 14 | 0 10 | 9 36 | 0 57 | 10 18 | 2 13 | 22 10 | 0 31 | 22 28 | 0 56 | 15 28 | 7 44 | 16 8 | 16 16 | 18 45 | 16 44 | 6 33 |
| S 25 | 12 2 | 7 10 | 5 6 | 3 22 | 2 0 | 7 59 | 1 16 | 23 16 | 0 13 | 9 32 | 0 57 | 10 21 | 2 13 | 22 10 | 0 31 | 22 28 | 0 56 | 15 28 | 7 44 | 16 8 | 16 15 | 18 44 | 16 44 | 6 32 |
| S 26 | 12 23 | 2 37 | 4 39 | 3 38 | 2 5 | 8 28 | 1 15 | 23 19 | 0 15 | 9 29 | 0 57 | 10 23 | 2 13 | 22 10 | 0 31 | 22 28 | 0 56 | 15 28 | 7 44 | 16 7 | 16 14 | 18 43 | 16 44 | 6 32 |
| M27 | 12 43 | 2n 0 | 3 56 | 3 58 | 2 8 | 8 56 | 1 13 | 23 21 | 0 18 | 9 25 | 0 58 | 10 26 | 2 13 | 22 9 | 0 31 | 22 28 | 0 56 | 15 27 | 7 44 | 16 7 | 16 13 | 18 41 | 16 45 | 6 31 |
| T 28 | 13 4 | 6 27 | 3 1 | 4 21 | 2 10 | 9 25 | 1 12 | 23 24 | 0 21 | 9 22 | 0 58 | 10 28 | 2 13 | 22 9 | 0 31 | 22 28 | 0 56 | 15 27 | 7 44 | 16 6 | 16 12 | 18 40 | 16 45 | 6 31 |
| W29 | 13 24 | 10 32 | 1 58 | 4 47 | 2 11 | 9 53 | 1 11 | 23 26 | 0 24 | 9 18 | 0 58 | 10 31 | 2 13 | 22 9 | 0 31 | 22 28 | 0 56 | 15 27 | 7 44 | 16 6 | 16 11 | 18 39 | 16 45 | 6 30 |
| T 30 | 13 44 | 14 3 | 0 49 | 5 15 | 2 11 | 10 21 | 1 9 | 23 29 | 0 26 | 9 15 | 0 58 | 10 33 | 2 13 | 22 9 | 0 31 | 22 28 | 0 56 | 15 27 | 7 44 | 16 6 | 16 10 | 18 38 | 16 45 | 6 30 |
| F 31 | 14s 3 | 16n51 | 0s21 | 5s46 | 2n10 | 10s48 | 1n 8 | 23n31 | 0n29 | 9n11 | 0n58 | 10s35 | 2n13 | 22s 8 | 0s31 | 22s28 | 0n56 | 15n27 | 7s44 | 16s 6 | 16s 9 | 18n37 | 16s45 | 6n30 |

Julian Day Number = 2327270.5, Delta T = 36.56 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'28, Lahiri = 19°06'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## NOVEMBER 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 40 45 | 8♏33'25 | 0♊13 | 21♎13 | 2♏19 | 18°R58 | 8♍57 | 3♏33 | 22♑21 | 4♑38 | 20°R55 | 14♏ 6 | 14♏14 | 11♋58 | 8♑ 3 | S 1 |
| S 2 | 2 44 42 | 9°33'37 | 12°25 | 22°37 | 3°35 | 18♊51 | 9° 6 | 3°40 | 22°23 | 4°39 | 20♊54 | 14° 7 | 14°11 | 12° 5 | 8° 7 | S 2 |
| M 3 | 2 48 39 | 10°33'51 | 24°26 | 24° 4 | 4°50 | 18°43 | 9°15 | 3°47 | 22°24 | 4°41 | 20°53 | 14° 7 | 14° 8 | 12°12 | 8°11 | M 3 |
| T 4 | 2 52 35 | 11°34'07 | 6♋21 | 25°33 | 6° 5 | 18°34 | 9°24 | 3°54 | 22°26 | 4°42 | 20°53 | 14° 8 | 14° 4 | 12°18 | 8°15 | T 4 |
| W 5 | 2 56 32 | 12°34'25 | 18°12 | 27° 4 | 7°21 | 18°24 | 9°33 | 4° 2 | 22°28 | 4°44 | 20°52 | 14° 8 | 14° 1 | 12°25 | 8°19 | W 5 |
| T 6 | 3 0 28 | 13°34'45 | 0♌ 3 | 28°35 | 8°36 | 18°14 | 9°42 | 4° 9 | 22°29 | 4°45 | 20°51 | 14° 8 | 13°58 | 12°32 | 8°23 | T 6 |
| F 7 | 3 4 25 | 14°35'07 | 12° 0 | 0♏ 8 | 9°51 | 18° 2 | 9°50 | 4°16 | 22°31 | 4°47 | 20°50 | 14° 8 | 13°55 | 12°38 | 8°27 | F 7 |
| S 8 | 3 8 21 | 15°35'30 | 24° 7 | 1°41 | 11° 7 | 17°50 | 9°59 | 4°23 | 22°33 | 4°48 | 20°49 | 14° 8 | 13°52 | 12°45 | 8°31 | S 8 |
| S 9 | 3 12 18 | 16°35'56 | 6♍28 | 3°16 | 12°22 | 17°37 | 10° 7 | 4°30 | 22°35 | 4°50 | 20°48 | 14° 8 | 13°49 | 12°52 | 8°35 | S 9 |
| M10 | 3 16 14 | 17°36'24 | 19° 8 | 4°50 | 13°38 | 17°23 | 10°16 | 4°37 | 22°37 | 4°52 | 20°47 | 14° 8 | 13°45 | 12°59 | 8°39 | M10 |
| T 11 | 3 20 11 | 18°36'53 | 2♎10 | 6°25 | 14°53 | 17° 8 | 10°24 | 4°44 | 22°39 | 4°53 | 20°46 | 14° 9 | 13°42 | 13° 5 | 8°43 | T 11 |
| W12 | 3 24 8 | 19°37'24 | 15°36 | 8° 0 | 16° 8 | 16°52 | 10°32 | 4°51 | 22°41 | 4°55 | 20°45 | 14° 9 | 13°39 | 13°12 | 8°48 | W12 |
| T 13 | 3 28 4 | 20°37'57 | 29°26 | 9°36 | 17°24 | 16°36 | 10°40 | 4°59 | 22°43 | 4°57 | 20°44 | 14°10 | 13°36 | 13°19 | 8°52 | T 13 |
| F 14 | 3 32 1 | 21°38'32 | 13♏38 | 11°11 | 18°39 | 16°19 | 10°48 | 5° 6 | 22°45 | 4°59 | 20°43 | 14°R10 | 13°33 | 13°25 | 8°57 | F 14 |
| S 15 | 3 35 57 | 22°39'08 | 28° 9 | 12°46 | 19°55 | 16° 1 | 10°55 | 5°13 | 22°47 | 5° 0 | 20°42 | 14°10 | 13°29 | 13°32 | 9° 1 | S 15 |
| S 16 | 3 39 54 | 23°39'46 | 12♐52 | 14°22 | 21°10 | 15°43 | 11° 3 | 5°20 | 22°49 | 5° 2 | 20°41 | 14° 9 | 13°26 | 13°39 | 9° 6 | S 16 |
| M17 | 3 43 50 | 24°40'25 | 27°40 | 15°57 | 22°26 | 15°24 | 11°10 | 5°27 | 22°51 | 5° 4 | 20°40 | 14° 8 | 13°23 | 13°45 | 9°10 | M17 |
| T 18 | 3 47 47 | 25°41'05 | 12♑27 | 17°32 | 23°41 | 15° 4 | 11°17 | 5°33 | 22°54 | 5° 6 | 20°39 | 14° 6 | 13°20 | 13°52 | 9°15 | T 18 |
| W19 | 3 51 43 | 26°41'47 | 27° 4 | 19° 8 | 24°57 | 14°44 | 11°24 | 5°40 | 22°56 | 5° 8 | 20°38 | 14° 5 | 13°17 | 13°59 | 9°20 | W19 |
| T 20 | 3 55 40 | 27°42'29 | 11♒27 | 20°43 | 26°12 | 14°23 | 11°31 | 5°47 | 22°58 | 5°10 | 20°37 | 14° 4 | 13°14 | 14° 6 | 9°24 | T 20 |
| F 21 | 3 59 37 | 28°43'13 | 25°33 | 22°18 | 27°27 | 14° 2 | 11°38 | 5°54 | 23° 1 | 5°11 | 20°36 | 14°D 3 | 13°10 | 14°12 | 9°29 | F 21 |
| S 22 | 4 3 33 | 29°43'57 | 9♓20 | 23°53 | 28°43 | 13°40 | 11°45 | 6° 1 | 23° 3 | 5°13 | 20°35 | 14° 4 | 13° 7 | 14°19 | 9°34 | S 22 |
| S 23 | 4 7 30 | 0♗44'43 | 22°49 | 25°28 | 29°58 | 13°18 | 11°51 | 6° 8 | 23° 6 | 5°15 | 20°34 | 14° 5 | 13° 4 | 14°26 | 9°39 | S 23 |
| M24 | 4 11 26 | 1°45'30 | 6♈ 1 | 27° 2 | 1♗14 | 12°56 | 11°58 | 6°15 | 23° 8 | 5°17 | 20°32 | 14° 6 | 13° 1 | 14°32 | 9°44 | M24 |
| T 25 | 4 15 23 | 2°46'17 | 18°58 | 28°37 | 2°29 | 12°34 | 12° 4 | 6°21 | 23°11 | 5°19 | 20°31 | 14° 7 | 12°58 | 14°39 | 9°49 | T 25 |
| W26 | 4 19 19 | 3°47'06 | 1♉40 | 0♗11 | 3°45 | 12°11 | 12°10 | 6°28 | 23°13 | 5°21 | 20°30 | 14° 9 | 12°55 | 14°46 | 9°54 | W26 |
| T 27 | 4 23 16 | 4°47'55 | 14°11 | 1°46 | 5° 0 | 11°48 | 12°16 | 6°35 | 23°16 | 5°23 | 20°29 | 14°R 9 | 12°51 | 14°52 | 9°59 | T 27 |
| F 28 | 4 27 12 | 5°48'46 | 26°31 | 3°20 | 6°16 | 11°25 | 12°22 | 6°41 | 23°18 | 5°25 | 20°28 | 14° 8 | 12°48 | 14°59 | 10° 4 | F 28 |
| S 29 | 4 31 9 | 6°49'38 | 8♊42 | 4°54 | 7°31 | 11° 2 | 12°27 | 6°48 | 23°21 | 5°27 | 20°27 | 14° 7 | 12°45 | 15° 6 | 10° 9 | S 29 |
| S 30 | 4 35 6 | 7♗50'31 | 20♊46 | 6♗29 | 8♗47 | 10♊38 | 12♍33 | 6♏54 | 23♑24 | 5♑29 | 20♊26 | 14♏ 4 | 12♏42 | 15♋13 | 10♑14 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s23 | 18n48 | 1s28 | 6s19 | 2n 8 | 11s16 | 1n 6 | 23n33 | 0n32 | 9n 8 | 0n59 | 10s38 | 2n13 | 22s 8 | 0s31 | 22s28 | 0n56 | 15n27 | 7s44 | 16s 6 | 16s 8 | 18n36 | 16s46 | 6n29 |
| S 2 | 14 42 | 19 50 | 2 31 | 6 52 | 2 6 | 11 43 | 1 5 | 23 36 | 0 35 | 9 5 | 0 59 | 10 40 | 2 13 | 22 8 | 0 31 | 22 28 | 0 56 | 15 27 | 7 44 | 16 6 | 16 7 | 18 35 | 16 46 | 6 29 |
| M 3 | 15 1 | 19 56 | 3 26 | 7 27 | 2 2 | 12 10 | 1 3 | 23 38 | 0 38 | 9 1 | 0 59 | 10 43 | 2 13 | 22 8 | 0 31 | 22 28 | 0 56 | 15 27 | 7 45 | 16 6 | 16 6 | 18 34 | 16 46 | 6 28 |
| T 4 | 15 20 | 19 9 | 4 11 | 8 3 | 1 59 | 12 37 | 1 1 | 23 40 | 0 41 | 8 58 | 0 59 | 10 45 | 2 13 | 22 7 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 6 | 16 5 | 18 33 | 16 46 | 6 28 |
| W 5 | 15 38 | 17 31 | 4 46 | 8 40 | 1 55 | 13 3 | 0 59 | 23 42 | 0 44 | 8 55 | 0 59 | 10 47 | 2 13 | 22 7 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 6 | 16 4 | 18 32 | 16 46 | 6 28 |
| T 6 | 15 57 | 15 9 | 5 8 | 9 17 | 1 50 | 13 29 | 0 58 | 23 44 | 0 47 | 8 52 | 1 0 | 10 50 | 2 13 | 22 7 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 6 | 16 4 | 18 31 | 16 46 | 6 27 |
| F 7 | 16 15 | 12 8 | 5 17 | 9 54 | 1 45 | 13 55 | 0 56 | 23 46 | 0 50 | 8 49 | 1 0 | 10 52 | 2 13 | 22 6 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 6 | 16 3 | 18 30 | 16 47 | 6 27 |
| S 8 | 16 32 | 8 35 | 5 13 | 10 32 | 1 40 | 14 20 | 0 54 | 23 48 | 0 53 | 8 46 | 1 0 | 10 55 | 2 13 | 22 6 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 6 | 16 2 | 18 29 | 16 47 | 6 27 |
| S 9 | 16 50 | 4 36 | 4 54 | 11 9 | 1 34 | 14 45 | 0 52 | 23 50 | 0 56 | 8 43 | 1 0 | 10 57 | 2 13 | 22 6 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 7 | 16 1 | 18 28 | 16 47 | 6 26 |
| M10 | 17 7 | 0 19 | 4 20 | 11 46 | 1 28 | 15 10 | 0 50 | 23 51 | 0 59 | 8 40 | 1 0 | 10 59 | 2 13 | 22 5 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 7 | 16 0 | 18 27 | 16 47 | 6 26 |
| T 11 | 17 24 | 4s 7 | 3 33 | 12 24 | 1 22 | 15 34 | 0 48 | 23 53 | 1 2 | 8 37 | 1 1 | 11 2 | 2 14 | 22 5 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 7 | 15 59 | 18 26 | 16 47 | 6 26 |
| W12 | 17 40 | 8 29 | 2 32 | 13 1 | 1 16 | 15 58 | 0 46 | 23 54 | 1 5 | 8 34 | 1 1 | 11 4 | 2 14 | 22 5 | 0 31 | 22 28 | 0 56 | 15 26 | 7 45 | 16 7 | 15 58 | 18 24 | 16 47 | 6 25 |
| T 13 | 17 56 | 12 33 | 1 21 | 13 37 | 1 9 | 16 21 | 0 44 | 23 56 | 1 8 | 8 31 | 1 1 | 11 6 | 2 14 | 22 4 | 0 31 | 22 28 | 0 56 | 15 25 | 7 45 | 16 7 | 15 57 | 18 23 | 16 47 | 6 25 |
| F 14 | 18 12 | 16 0 | 0 3 | 14 13 | 1 2 | 16 44 | 0 42 | 23 57 | 1 11 | 8 29 | 1 1 | 11 9 | 2 14 | 22 4 | 0 31 | 22 28 | 0 56 | 15 25 | 7 45 | 16 7 | 15 56 | 18 22 | 16 47 | 6 25 |
| S 15 | 18 28 | 18 32 | 1n17 | 14 49 | 0 56 | 17 7 | 0 40 | 23 58 | 1 14 | 8 26 | 1 2 | 11 11 | 2 14 | 22 4 | 0 31 | 22 28 | 0 56 | 15 25 | 7 45 | 16 7 | 15 55 | 18 21 | 16 47 | 6 24 |
| S 16 | 18 43 | 19 52 | 2 33 | 15 24 | 0 49 | 17 29 | 0 38 | 23 59 | 1 17 | 8 23 | 1 2 | 11 13 | 2 14 | 22 3 | 0 31 | 22 28 | 0 56 | 15 25 | 7 45 | 16 7 | 15 54 | 18 20 | 16 47 | 6 24 |
| M17 | 18 58 | 19 49 | 3 38 | 15 58 | 0 42 | 17 50 | 0 35 | 24 0 | 1 20 | 8 21 | 1 2 | 11 15 | 2 14 | 22 3 | 0 31 | 22 28 | 0 56 | 15 25 | 7 45 | 16 6 | 15 53 | 18 19 | 16 47 | 6 24 |
| T 18 | 19 13 | 18 25 | 4 30 | 16 32 | 0 35 | 18 11 | 0 33 | 24 1 | 1 23 | 8 18 | 1 2 | 11 18 | 2 14 | 22 2 | 0 31 | 22 28 | 0 56 | 15 25 | 7 45 | 16 6 | 15 52 | 18 18 | 16 47 | 6 23 |
| W19 | 19 27 | 15 50 | 5 3 | 17 5 | 0 28 | 18 32 | 0 31 | 24 2 | 1 26 | 8 16 | 1 2 | 11 20 | 2 14 | 22 2 | 0 31 | 22 27 | 0 55 | 15 25 | 7 45 | 16 6 | 15 51 | 18 17 | 16 47 | 6 23 |
| T 20 | 19 41 | 12 19 | 5 16 | 17 37 | 0 22 | 18 52 | 0 29 | 24 2 | 1 29 | 8 13 | 1 3 | 11 22 | 2 14 | 22 2 | 0 31 | 22 27 | 0 55 | 15 25 | 7 45 | 16 5 | 15 50 | 18 16 | 16 47 | 6 23 |
| F 21 | 19 55 | 8 9 | 5 10 | 18 8 | 0 15 | 19 12 | 0 26 | 24 2 | 1 32 | 8 11 | 1 3 | 11 24 | 2 14 | 22 1 | 0 31 | 22 27 | 0 55 | 15 25 | 7 45 | 16 5 | 15 49 | 18 15 | 16 47 | 6 22 |
| S 22 | 20 8 | 3 40 | 4 46 | 18 39 | 0 8 | 19 31 | 0 24 | 24 3 | 1 34 | 8 9 | 1 3 | 11 26 | 2 14 | 22 1 | 0 31 | 22 27 | 0 55 | 15 25 | 7 45 | 16 5 | 15 48 | 18 13 | 16 47 | 6 22 |
| S 23 | 20 21 | 0n56 | 4 7 | 19 9 | 0 1 | 19 49 | 0 22 | 24 3 | 1 37 | 8 6 | 1 3 | 11 29 | 2 14 | 22 0 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 5 | 15 47 | 18 12 | 16 47 | 6 22 |
| M24 | 20 33 | 5 23 | 3 15 | 19 37 | 0s 6 | 20 7 | 0 20 | 24 3 | 1 40 | 8 4 | 1 4 | 11 31 | 2 14 | 22 0 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 6 | 15 46 | 18 11 | 16 47 | 6 22 |
| T 25 | 20 45 | 9 31 | 2 15 | 20 5 | 0 12 | 20 25 | 0 17 | 24 3 | 1 43 | 8 2 | 1 4 | 11 33 | 2 14 | 22 0 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 6 | 15 45 | 18 10 | 16 47 | 6 21 |
| W26 | 20 57 | 13 9 | 1 8 | 20 32 | 0 19 | 20 42 | 0 15 | 24 2 | 1 46 | 8 0 | 1 4 | 11 35 | 2 14 | 21 59 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 7 | 15 44 | 18 9 | 16 47 | 6 21 |
| T 27 | 21 8 | 16 7 | 0s 0 | 20 58 | 0 26 | 20 58 | 0 13 | 24 2 | 1 48 | 7 58 | 1 4 | 11 37 | 2 14 | 21 59 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 7 | 15 43 | 18 8 | 16 47 | 6 21 |
| F 28 | 21 19 | 18 19 | 1 8 | 21 23 | 0 32 | 21 14 | 0 10 | 24 1 | 1 51 | 7 56 | 1 5 | 11 39 | 2 15 | 21 58 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 7 | 15 42 | 18 7 | 16 46 | 6 21 |
| S 29 | 21 29 | 19 38 | 2 11 | 21 47 | 0 38 | 21 29 | 0 8 | 24 0 | 1 53 | 7 54 | 1 5 | 11 41 | 2 15 | 21 58 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 6 | 15 42 | 18 6 | 16 46 | 6 20 |
| S 30 | 21s39 | 20n 2 | 3s 8 | 22s10 | 0s45 | 21s43 | 0n 5 | 24n 0 | 1n56 | 7n52 | 1n 5 | 11s43 | 2n15 | 21s57 | 0s31 | 22s27 | 0n55 | 15n24 | 7s45 | 16s 5 | 15s41 | 18n 4 | 16s46 | 6n20 |

Julian Day Number = 2327301.5, Delta T = 36.50 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'32, Lahiri = 19°06'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1659
# geocentric

## DECEMBER 1659 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 39 2 | 8♐51'25 | 2♋43 | 8♐ 3 | 10♐ 2 | 10°R15 | 12♍38 | 7♏ 1 | 23♑26 | 5♑31 | 20°R25 | 14°R 0 | 12♏39 | 15♋19 | 10♑19 | M 1 |
| T 2 | 4 42 59 | 9°52'20 | 14°36 | 9°37 | 11°18 | 9♊52 | 12°43 | 7° 7 | 23°29 | 5°34 | 20♊23 | 13♏55 | 12°35 | 15°26 | 10°24 | T 2 |
| W 3 | 4 46 55 | 10°53'16 | 26°27 | 11°11 | 12°33 | 9°29 | 12°48 | 7°14 | 23°32 | 5°36 | 20°22 | 13°50 | 12°32 | 15°33 | 10°30 | W 3 |
| T 4 | 4 50 52 | 11°54'14 | 8♌18 | 12°46 | 13°49 | 9° 6 | 12°53 | 7°20 | 23°35 | 5°38 | 20°21 | 13°46 | 12°29 | 15°39 | 10°35 | T 4 |
| F 5 | 4 54 48 | 12°55'12 | 20°14 | 14°20 | 15° 4 | 8°44 | 12°57 | 7°27 | 23°38 | 5°40 | 20°20 | 13°42 | 12°26 | 15°46 | 10°40 | F 5 |
| S 6 | 4 58 45 | 13°56'12 | 2♍18 | 15°54 | 16°20 | 8°21 | 13° 2 | 7°33 | 23°41 | 5°42 | 20°19 | 13°40 | 12°23 | 15°53 | 10°46 | S 6 |
| S 7 | 5 2 41 | 14°57'12 | 14°34 | 17°29 | 17°35 | 7°59 | 13° 6 | 7°39 | 23°43 | 5°44 | 20°18 | 13°D39 | 12°20 | 16° 0 | 10°51 | S 7 |
| M 8 | 5 6 38 | 15°58'14 | 27° 8 | 19° 3 | 18°50 | 7°37 | 13°10 | 7°45 | 23°46 | 5°46 | 20°16 | 13°40 | 12°16 | 16° 6 | 10°56 | M 8 |
| T 9 | 5 10 35 | 16°59'17 | 10♎ 3 | 20°38 | 20° 6 | 7°16 | 13°14 | 7°52 | 23°49 | 5°48 | 20°15 | 13°41 | 12°13 | 16°13 | 11° 2 | T 9 |
| W10 | 5 14 31 | 18° 0'21 | 23°24 | 22°13 | 21°21 | 6°55 | 13°18 | 7°58 | 23°52 | 5°51 | 20°14 | 13°43 | 12°10 | 16°20 | 11° 7 | W10 |
| T 11 | 5 18 28 | 19° 1'26 | 7♏12 | 23°47 | 22°37 | 6°35 | 13°22 | 8° 4 | 23°55 | 5°53 | 20°13 | 13°R44 | 12° 7 | 16°26 | 11°13 | T 11 |
| F 12 | 5 22 24 | 20° 2'31 | 21°28 | 25°22 | 23°52 | 6°15 | 13°25 | 8°10 | 23°58 | 5°55 | 20°12 | 13°44 | 12° 4 | 16°33 | 11°18 | F 12 |
| S 13 | 5 26 21 | 21° 3'38 | 6♐ 8 | 26°57 | 25° 8 | 5°56 | 13°28 | 8°16 | 24° 2 | 5°57 | 20°11 | 13°42 | 12° 1 | 16°40 | 11°24 | S 13 |
| S 14 | 5 30 17 | 22° 4'45 | 21° 9 | 28°33 | 26°23 | 5°37 | 13°31 | 8°22 | 24° 5 | 5°59 | 20° 9 | 13°39 | 11°57 | 16°47 | 11°29 | S 14 |
| M15 | 5 34 14 | 23° 5'53 | 6♑20 | 0♑ 8 | 27°39 | 5°19 | 13°34 | 8°27 | 24° 8 | 6° 2 | 20° 8 | 13°33 | 11°54 | 16°53 | 11°35 | M15 |
| T 16 | 5 38 11 | 24° 7'02 | 21°31 | 1°43 | 28°54 | 5° 1 | 13°37 | 8°33 | 24°11 | 6° 4 | 20° 7 | 13°27 | 11°51 | 17° 0 | 11°40 | T 16 |
| W17 | 5 42 7 | 25° 8'10 | 6♒32 | 3°19 | 0♑10 | 4°44 | 13°39 | 8°39 | 24°14 | 6° 6 | 20° 6 | 13°21 | 11°48 | 17° 7 | 11°46 | W17 |
| T 18 | 5 46 4 | 26° 9'19 | 21°16 | 4°55 | 1°25 | 4°28 | 13°41 | 8°45 | 24°17 | 6° 8 | 20° 5 | 13°15 | 11°45 | 17°13 | 11°51 | T 18 |
| F 19 | 5 50 0 | 27°10'28 | 5♓35 | 6°31 | 2°41 | 4°13 | 13°44 | 8°50 | 24°21 | 6°11 | 20° 3 | 13°11 | 11°41 | 17°20 | 11°57 | F 19 |
| S 20 | 5 53 57 | 28°11'37 | 19°28 | 8° 7 | 3°56 | 3°58 | 13°46 | 8°56 | 24°24 | 6°13 | 20° 2 | 13° 9 | 11°38 | 17°27 | 12° 3 | S 20 |
| S 21 | 5 57 53 | 29°12'46 | 2♈56 | 9°43 | 5°12 | 3°45 | 13°47 | 9° 1 | 24°27 | 6°15 | 20° 1 | 13°D 9 | 11°35 | 17°34 | 12° 8 | S 21 |
| M22 | 6 1 50 | 0♑13'55 | 16° 0 | 11°18 | 6°27 | 3°32 | 13°49 | 9° 7 | 24°30 | 6°17 | 20° 0 | 13° 9 | 11°32 | 17°40 | 12°14 | M22 |
| T 23 | 6 5 46 | 1°15'04 | 28°44 | 12°54 | 7°43 | 3°19 | 13°50 | 9°12 | 24°34 | 6°20 | 19°59 | 13°11 | 11°29 | 17°47 | 12°20 | T 23 |
| W24 | 6 9 43 | 2°16'13 | 11♉12 | 14°30 | 8°58 | 3° 8 | 13°51 | 9°17 | 24°37 | 6°22 | 19°58 | 13°R12 | 11°26 | 17°54 | 12°25 | W24 |
| T 25 | 6 13 40 | 3°17'22 | 23°28 | 16° 6 | 10°13 | 2°57 | 13°52 | 9°22 | 24°40 | 6°24 | 19°57 | 13°11 | 11°22 | 18° 0 | 12°31 | T 25 |
| F 26 | 6 17 36 | 4°18'31 | 5♊34 | 17°41 | 11°29 | 2°47 | 13°53 | 9°28 | 24°44 | 6°26 | 19°55 | 13° 8 | 11°19 | 18° 7 | 12°37 | F 26 |
| S 27 | 6 21 33 | 5°19'40 | 17°34 | 19°16 | 12°44 | 2°38 | 13°54 | 9°33 | 24°47 | 6°29 | 19°54 | 13° 3 | 11°16 | 18°14 | 12°42 | S 27 |
| S 28 | 6 25 29 | 6°20'49 | 29°30 | 20°51 | 14° 0 | 2°30 | 13°54 | 9°38 | 24°50 | 6°31 | 19°53 | 12°55 | 11°13 | 18°21 | 12°48 | S 28 |
| M29 | 6 29 26 | 7°21'58 | 11♋23 | 22°25 | 15°15 | 2°23 | 13°54 | 9°43 | 24°54 | 6°33 | 19°52 | 12°45 | 11°10 | 18°27 | 12°54 | M29 |
| T 30 | 6 33 22 | 8°23'07 | 23°15 | 23°58 | 16°31 | 2°16 | 13°R54 | 9°47 | 24°57 | 6°36 | 19°51 | 12°34 | 11° 7 | 18°34 | 13° 0 | T 30 |
| W31 | 6 37 19 | 9♑24'16 | 5♌ 7 | 25♑30 | 17♑46 | 2♊11 | 13♍54 | 9♏52 | 25♑ 1 | 6♑38 | 19♊50 | 12♏23 | 11♏ 3 | 18♋41 | 13♑ 5 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s49 | 19n31 | 3s56 | 22s32 | 0s51 | 21s57 | 0n 3 | 23n59 | 1n58 | 7n50 | 1n 5 | 11s45 | 2n15 | 21s57 | 0s31 | 22s27 | 0n55 | 15n24 | 7s45 | 16s 4 | 15s40 | 18n 3 | 16s46 | 6n20 |
| T 2 | 21 58 | 18 9 | 4 33 | 22 52 | 0 57 | 22 10 | 0 1 | 23 58 | 2 1 | 7 49 | 1 6 | 11 47 | 2 15 | 21 56 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 3 | 15 39 | 18 2 | 16 46 | 6 20 |
| W 3 | 22 7 | 16 1 | 4 59 | 23 12 | 1 3 | 22 22 | 0s 2 | 23 56 | 2 3 | 7 47 | 1 6 | 11 49 | 2 15 | 21 56 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 1 | 15 38 | 18 1 | 16 46 | 6 20 |
| T 4 | 22 15 | 13 12 | 5 12 | 23 30 | 1 8 | 22 34 | 0 4 | 23 55 | 2 5 | 7 45 | 1 6 | 11 51 | 2 15 | 21 55 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 16 0 | 15 37 | 18 0 | 16 45 | 6 19 |
| F 5 | 22 23 | 9 51 | 5 11 | 23 47 | 1 14 | 22 45 | 0 7 | 23 54 | 2 8 | 7 44 | 1 6 | 11 53 | 2 15 | 21 55 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 15 59 | 15 36 | 17 59 | 16 45 | 6 19 |
| S 6 | 22 31 | 6 3 | 4 57 | 24 3 | 1 19 | 22 56 | 0 9 | 23 52 | 2 10 | 7 42 | 1 7 | 11 55 | 2 15 | 21 54 | 0 31 | 22 27 | 0 55 | 15 24 | 7 45 | 15 58 | 15 35 | 17 58 | 16 45 | 6 19 |
| S 7 | 22 38 | 1 57 | 4 29 | 24 17 | 1 24 | 23 5 | 0 11 | 23 51 | 2 12 | 7 41 | 1 7 | 11 57 | 2 15 | 21 54 | 0 31 | 22 26 | 0 55 | 15 23 | 7 45 | 15 58 | 15 34 | 17 56 | 16 45 | 6 19 |
| M 8 | 22 44 | 2s20 | 3 47 | 24 31 | 1 29 | 23 14 | 0 14 | 23 49 | 2 14 | 7 40 | 1 7 | 11 59 | 2 16 | 21 53 | 0 31 | 22 26 | 0 55 | 15 23 | 7 45 | 15 58 | 15 33 | 17 55 | 16 44 | 6 19 |
| T 9 | 22 51 | 6 39 | 2 54 | 24 43 | 1 34 | 23 23 | 0 16 | 23 47 | 2 15 | 7 38 | 1 8 | 12 1 | 2 16 | 21 53 | 0 31 | 22 26 | 0 55 | 15 23 | 7 45 | 15 59 | 15 32 | 17 54 | 16 44 | 6 18 |
| W10 | 22 56 | 10 47 | 1 49 | 24 53 | 1 39 | 23 30 | 0 18 | 23 46 | 2 17 | 7 37 | 1 8 | 12 3 | 2 16 | 21 52 | 0 31 | 22 26 | 0 55 | 15 23 | 7 45 | 15 59 | 15 31 | 17 53 | 16 44 | 6 18 |
| T 11 | 23 2 | 14 30 | 0 36 | 25 3 | 1 43 | 23 37 | 0 21 | 23 44 | 2 19 | 7 36 | 1 8 | 12 4 | 2 16 | 21 52 | 0 31 | 22 26 | 0 55 | 15 23 | 7 45 | 15 59 | 15 30 | 17 52 | 16 44 | 6 18 |
| F 12 | 23 6 | 17 29 | 0n42 | 25 11 | 1 47 | 23 43 | 0 23 | 23 42 | 2 21 | 7 35 | 1 8 | 12 6 | 2 16 | 21 51 | 0 31 | 22 26 | 0 55 | 15 23 | 7 45 | 15 59 | 15 29 | 17 51 | 16 43 | 6 18 |
| S 13 | 23 11 | 19 25 | 1 59 | 25 17 | 1 51 | 23 49 | 0 25 | 23 40 | 2 22 | 7 34 | 1 9 | 12 8 | 2 16 | 21 51 | 0 30 | 22 26 | 0 55 | 15 23 | 7 45 | 15 59 | 15 28 | 17 49 | 16 43 | 6 18 |
| S 14 | 23 15 | 20 2 | 3 9 | 25 23 | 1 54 | 23 54 | 0 28 | 23 38 | 2 24 | 7 33 | 1 9 | 12 10 | 2 16 | 21 50 | 0 30 | 22 26 | 0 55 | 15 23 | 7 45 | 15 58 | 15 27 | 17 48 | 16 43 | 6 18 |
| M15 | 23 18 | 19 13 | 4 7 | 25 26 | 1 57 | 23 58 | 0 30 | 23 36 | 2 25 | 7 32 | 1 9 | 12 12 | 2 16 | 21 49 | 0 30 | 22 26 | 0 55 | 15 23 | 7 45 | 15 56 | 15 26 | 17 47 | 16 42 | 6 18 |
| T 16 | 23 21 | 17 2 | 4 47 | 25 29 | 2 0 | 24 1 | 0 32 | 23 34 | 2 26 | 7 31 | 1 9 | 12 13 | 2 17 | 21 49 | 0 30 | 22 26 | 0 55 | 15 23 | 7 45 | 15 54 | 15 25 | 17 46 | 16 42 | 6 18 |
| W17 | 23 24 | 13 42 | 5 7 | 25 29 | 2 3 | 24 3 | 0 35 | 23 33 | 2 28 | 7 31 | 1 10 | 12 15 | 2 17 | 21 48 | 0 30 | 22 26 | 0 55 | 15 23 | 7 45 | 15 52 | 15 24 | 17 45 | 16 42 | 6 17 |
| T 18 | 23 26 | 9 36 | 5 6 | 25 29 | 2 5 | 24 5 | 0 37 | 23 31 | 2 29 | 7 30 | 1 10 | 12 17 | 2 17 | 21 48 | 0 30 | 22 26 | 0 55 | 15 23 | 7 45 | 15 51 | 15 23 | 17 43 | 16 41 | 6 17 |
| F 19 | 23 27 | 5 2 | 4 46 | 25 26 | 2 7 | 24 6 | 0 39 | 23 29 | 2 30 | 7 29 | 1 10 | 12 18 | 2 17 | 21 47 | 0 30 | 22 25 | 0 55 | 15 23 | 7 45 | 15 49 | 15 22 | 17 42 | 16 41 | 6 17 |
| S 20 | 23 28 | 0 21 | 4 10 | 25 22 | 2 9 | 24 6 | 0 41 | 23 27 | 2 31 | 7 29 | 1 11 | 12 20 | 2 17 | 21 47 | 0 30 | 22 25 | 0 55 | 15 23 | 7 45 | 15 49 | 15 21 | 17 41 | 16 40 | 6 17 |
| S 21 | 23 29 | 4n14 | 3 20 | 25 17 | 2 10 | 24 6 | 0 43 | 23 25 | 2 32 | 7 29 | 1 11 | 12 21 | 2 17 | 21 46 | 0 30 | 22 25 | 0 55 | 15 23 | 7 45 | 15 49 | 15 20 | 17 40 | 16 40 | 6 17 |
| M22 | 23 29 | 8 29 | 2 22 | 25 10 | 2 11 | 24 5 | 0 45 | 23 24 | 2 33 | 7 28 | 1 11 | 12 23 | 2 18 | 21 45 | 0 30 | 22 25 | 0 55 | 15 23 | 7 44 | 15 49 | 15 19 | 17 39 | 16 40 | 6 17 |
| T 23 | 23 29 | 12 15 | 1 17 | 25 1 | 2 11 | 24 3 | 0 47 | 23 22 | 2 34 | 7 28 | 1 11 | 12 25 | 2 18 | 21 45 | 0 30 | 22 25 | 0 55 | 15 23 | 7 44 | 15 49 | 15 18 | 17 37 | 16 39 | 6 17 |
| W24 | 23 28 | 15 23 | 0 11 | 24 51 | 2 11 | 24 0 | 0 49 | 23 21 | 2 34 | 7 28 | 1 12 | 12 26 | 2 18 | 21 44 | 0 30 | 22 25 | 0 55 | 15 23 | 7 44 | 15 50 | 15 17 | 17 36 | 16 39 | 6 17 |
| T 25 | 23 26 | 17 47 | 0s55 | 24 40 | 2 10 | 23 56 | 0 51 | 23 19 | 2 35 | 7 28 | 1 12 | 12 28 | 2 18 | 21 44 | 0 30 | 22 25 | 0 55 | 15 23 | 7 44 | 15 49 | 15 16 | 17 35 | 16 38 | 6 17 |
| F 26 | 23 25 | 19 21 | 1 57 | 24 26 | 2 9 | 23 52 | 0 53 | 23 18 | 2 36 | 7 28 | 1 12 | 12 29 | 2 18 | 21 43 | 0 30 | 22 25 | 0 55 | 15 23 | 7 44 | 15 49 | 15 15 | 17 34 | 16 38 | 6 17 |
| S 27 | 23 22 | 20 1 | 2 54 | 24 11 | 2 7 | 23 47 | 0 55 | 23 17 | 2 36 | 7 28 | 1 13 | 12 30 | 2 18 | 21 42 | 0 30 | 22 25 | 0 55 | 15 23 | 7 44 | 15 47 | 15 14 | 17 33 | 16 37 | 6 17 |
| S 28 | 23 20 | 19 47 | 3 42 | 23 55 | 2 5 | 23 42 | 0 57 | 23 16 | 2 37 | 7 28 | 1 13 | 12 32 | 2 18 | 21 42 | 0 30 | 22 25 | 0 55 | 15 23 | 7 44 | 15 45 | 15 13 | 17 31 | 16 37 | 6 17 |
| M29 | 23 17 | 18 40 | 4 20 | 23 37 | 2 2 | 23 35 | 0 59 | 23 15 | 2 37 | 7 28 | 1 13 | 12 33 | 2 19 | 21 41 | 0 30 | 22 24 | 0 55 | 15 23 | 7 44 | 15 42 | 15 12 | 17 30 | 16 36 | 6 17 |
| T 30 | 23 13 | 16 45 | 4 47 | 23 17 | 1 58 | 23 28 | 1 1 | 23 14 | 2 38 | 7 28 | 1 13 | 12 35 | 2 19 | 21 41 | 0 30 | 22 24 | 0 55 | 15 23 | 7 44 | 15 38 | 15 11 | 17 29 | 16 36 | 6 17 |
| W31 | 23s 9 | 14n 8 | 5s 2 | 22s56 | 1s54 | 23s20 | 1s 3 | 23n13 | 2n38 | 7n29 | 1n14 | 12s36 | 2n19 | 21s40 | 0s30 | 22s24 | 0n55 | 15n23 | 7s44 | 15s35 | 15s10 | 17n28 | 16s35 | 6n17 |

Julian Day Number = 2327331.5, Delta T = 36.44 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'36, Lahiri = 19°06'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## JANUARY 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 41 15 | 10♉25'25 | 17♌ 1 | 27♉ 0 | 19♉ 1 | 2°R 6 | 13°R54 | 9♏57 | 25♉ 4 | 6♉40 | 19°R49 | 12°R11 | 11♏ 0 | 18♋47 | 13♉11 | T 1 |
| F 2 | 6 45 12 | 11°26'34 | 29° 0 | 28°29 | 20°17 | 2♊ 2 | 13♍53 | 10° 2 | 25° 8 | 6°42 | 19♊48 | 12♏ 2 | 10°57 | 18°54 | 13°17 | F 2 |
| S 3 | 6 49 9 | 12°27'43 | 11♍ 5 | 29°56 | 21°32 | 1°58 | 13°52 | 10° 6 | 25°11 | 6°45 | 19°46 | 11°55 | 10°54 | 19° 1 | 13°22 | S 3 |
| S 4 | 6 53 5 | 13°28'52 | 23°20 | 1♒21 | 22°47 | 1°56 | 13°52 | 10°11 | 25°15 | 6°47 | 19°45 | 11°50 | 10°51 | 19° 7 | 13°28 | S 4 |
| M 5 | 6 57 2 | 14°30'01 | 5♎50 | 2°43 | 24° 3 | 1°54 | 13°50 | 10°15 | 25°18 | 6°49 | 19°44 | 11°48 | 10°47 | 19°14 | 13°34 | M 5 |
| T 6 | 7 0 58 | 15°31'10 | 18°37 | 4° 1 | 25°18 | 1°53 | 13°49 | 10°19 | 25°21 | 6°51 | 19°43 | 11°D47 | 10°44 | 19°21 | 13°40 | T 6 |
| W 7 | 7 4 55 | 16°32'19 | 1♏48 | 5°15 | 26°33 | 1°D53 | 13°48 | 10°24 | 25°25 | 6°54 | 19°42 | 11°48 | 10°41 | 19°28 | 13°45 | W 7 |
| T 8 | 7 8 51 | 17°33'28 | 15°25 | 6°25 | 27°49 | 1°54 | 13°46 | 10°28 | 25°28 | 6°56 | 19°41 | 11°R48 | 10°38 | 19°34 | 13°51 | T 8 |
| F 9 | 7 12 48 | 18°34'37 | 29°31 | 7°29 | 29° 4 | 1°55 | 13°44 | 10°32 | 25°32 | 6°58 | 19°40 | 11°47 | 10°35 | 19°41 | 13°57 | F 9 |
| S 10 | 7 16 44 | 19°35'46 | 14♐ 5 | 8°28 | 0♒19 | 1°57 | 13°42 | 10°36 | 25°36 | 7° 0 | 19°39 | 11°43 | 10°32 | 19°48 | 14° 3 | S 10 |
| S 11 | 7 20 41 | 20°36'55 | 29° 3 | 9°19 | 1°35 | 2° 0 | 13°39 | 10°40 | 25°39 | 7° 3 | 19°38 | 11°37 | 10°28 | 19°55 | 14° 8 | S 11 |
| M12 | 7 24 38 | 21°38'03 | 14♉18 | 10° 2 | 2°50 | 2° 4 | 13°37 | 10°44 | 25°43 | 7° 5 | 19°37 | 11°28 | 10°25 | 20° 1 | 14°14 | M12 |
| T 13 | 7 28 34 | 22°39'11 | 29°40 | 10°36 | 4° 5 | 2° 8 | 13°34 | 10°47 | 25°46 | 7° 7 | 19°36 | 11°17 | 10°22 | 20° 8 | 14°20 | T 13 |
| W14 | 7 32 31 | 23°40'18 | 14♒56 | 11° 1 | 5°21 | 2°13 | 13°31 | 10°51 | 25°50 | 7° 9 | 19°35 | 11° 6 | 10°19 | 20°15 | 14°25 | W14 |
| T 15 | 7 36 27 | 24°41'24 | 29°56 | 11°16 | 6°36 | 2°19 | 13°28 | 10°55 | 25°53 | 7°11 | 19°34 | 10°56 | 10°16 | 20°21 | 14°31 | T 15 |
| F 16 | 7 40 24 | 25°42'29 | 14♓31 | 11°R19 | 7°51 | 2°25 | 13°25 | 10°58 | 25°57 | 7°14 | 19°33 | 10°48 | 10°13 | 20°28 | 14°37 | F 16 |
| S 17 | 7 44 20 | 26°43'34 | 28°37 | 11°11 | 9° 6 | 2°32 | 13°22 | 11° 1 | 26° 0 | 7°16 | 19°32 | 10°43 | 10° 9 | 20°35 | 14°42 | S 17 |
| S 18 | 7 48 17 | 27°44'37 | 12♈13 | 10°51 | 10°22 | 2°40 | 13°18 | 11° 5 | 26° 4 | 7°18 | 19°32 | 10°40 | 10° 6 | 20°42 | 14°48 | S 18 |
| M19 | 7 52 13 | 28°45'39 | 25°21 | 10°20 | 11°37 | 2°49 | 13°14 | 11° 8 | 26° 7 | 7°20 | 19°31 | 10°D39 | 10° 3 | 20°48 | 14°53 | M19 |
| T 20 | 7 56 10 | 29°46'41 | 8♉ 4 | 9°38 | 12°52 | 2°58 | 13°10 | 11°11 | 26°11 | 7°22 | 19°30 | 10°R39 | 10° 0 | 20°55 | 14°59 | T 20 |
| W21 | 8 0 7 | 0♒47'41 | 20°28 | 8°46 | 14° 7 | 3° 7 | 13° 6 | 11°14 | 26°14 | 7°24 | 19°29 | 10°39 | 9°57 | 21° 2 | 15° 5 | W21 |
| T 22 | 8 4 3 | 1°48'40 | 2♊37 | 7°46 | 15°22 | 3°18 | 13° 2 | 11°17 | 26°18 | 7°27 | 19°28 | 10°37 | 9°53 | 21° 8 | 15°10 | T 22 |
| F 23 | 8 8 0 | 2°49'38 | 14°37 | 6°38 | 16°38 | 3°29 | 12°58 | 11°20 | 26°21 | 7°29 | 19°27 | 10°33 | 9°50 | 21°15 | 15°16 | F 23 |
| S 24 | 8 11 56 | 3°50'35 | 26°30 | 5°27 | 17°53 | 3°40 | 12°53 | 11°23 | 26°25 | 7°31 | 19°27 | 10°25 | 9°47 | 21°22 | 15°21 | S 24 |
| S 25 | 8 15 53 | 4°51'31 | 8♋21 | 4°12 | 19° 8 | 3°52 | 12°48 | 11°25 | 26°28 | 7°33 | 19°26 | 10°15 | 9°44 | 21°29 | 15°27 | S 25 |
| M26 | 8 19 49 | 5°52'25 | 20°13 | 2°57 | 20°23 | 4° 5 | 12°43 | 11°28 | 26°32 | 7°35 | 19°25 | 10° 2 | 9°41 | 21°35 | 15°32 | M26 |
| T 27 | 8 23 46 | 6°53'19 | 2♌ 5 | 1°44 | 21°38 | 4°18 | 12°38 | 11°30 | 26°35 | 7°37 | 19°24 | 9°48 | 9°38 | 21°42 | 15°38 | T 27 |
| W28 | 8 27 42 | 7°54'11 | 14° 2 | 0°35 | 22°53 | 4°31 | 12°33 | 11°33 | 26°39 | 7°39 | 19°23 | 9°33 | 9°34 | 21°49 | 15°43 | W28 |
| T 29 | 8 31 39 | 8°55'03 | 26° 2 | 29♉30 | 24° 8 | 4°46 | 12°28 | 11°35 | 26°42 | 7°41 | 19°23 | 9°18 | 9°31 | 21°55 | 15°48 | T 29 |
| F 30 | 8 35 36 | 9°55'53 | 8♍ 8 | 28°33 | 25°23 | 5° 0 | 12°22 | 11°37 | 26°46 | 7°43 | 19°22 | 9° 6 | 9°28 | 22° 2 | 15°54 | F 30 |
| S 31 | 8 39 32 | 10♒56'42 | 20♍21 | 27♉42 | 26♒38 | 5♊15 | 12♍16 | 11♏39 | 26♉49 | 7♉45 | 19♊21 | 8♏55 | 9♏25 | 22♋ 9 | 15♉59 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 4 | 10n57 | 5s 3 | 22s34 | 1s49 | 23s12 | 1s 4 | 23n12 | 2n38 | 7n29 | 1n14 | 12s37 | 2n19 | 21s39 | 0s30 | 22s24 | 0n55 | 15n23 | 7s44 | 15s31 | 15s 9 | 17n26 | 16s35 | 6n17 |
| F 2 | 22 59 | 7 18 | 4 51 | 22 11 | 1 43 | 23 2 | 1 6 | 23 12 | 2 39 | 7 29 | 1 14 | 12 39 | 2 19 | 21 39 | 0 30 | 22 24 | 0 55 | 15 23 | 7 43 | 15 28 | 15 8 | 17 25 | 16 34 | 6 17 |
| S 3 | 22 54 | 3 19 | 4 26 | 21 46 | 1 36 | 22 52 | 1 8 | 23 11 | 2 39 | 7 30 | 1 14 | 12 40 | 2 20 | 21 38 | 0 30 | 22 24 | 0 55 | 15 23 | 7 43 | 15 26 | 15 7 | 17 24 | 16 33 | 6 17 |
| S 4 | 22 48 | 0s51 | 3 49 | 21 20 | 1 29 | 22 41 | 1 9 | 23 11 | 2 39 | 7 31 | 1 15 | 12 41 | 2 20 | 21 37 | 0 30 | 22 24 | 0 55 | 15 23 | 7 43 | 15 25 | 15 6 | 17 23 | 16 33 | 6 17 |
| M 5 | 22 41 | 5 4 | 2 59 | 20 53 | 1 20 | 22 30 | 1 11 | 23 11 | 2 39 | 7 31 | 1 15 | 12 42 | 2 20 | 21 37 | 0 30 | 22 24 | 0 55 | 15 23 | 7 43 | 15 24 | 15 5 | 17 21 | 16 32 | 6 17 |
| T 6 | 22 35 | 9 10 | 2 0 | 20 26 | 1 11 | 22 18 | 1 12 | 23 11 | 2 39 | 7 32 | 1 15 | 12 43 | 2 20 | 21 36 | 0 30 | 22 24 | 0 55 | 15 23 | 7 43 | 15 24 | 15 4 | 17 20 | 16 32 | 6 17 |
| W 7 | 22 27 | 12 57 | 0 53 | 19 58 | 1 0 | 22 5 | 1 14 | 23 11 | 2 39 | 7 33 | 1 16 | 12 45 | 2 20 | 21 36 | 0 30 | 22 24 | 0 55 | 15 23 | 7 43 | 15 24 | 15 3 | 17 19 | 16 31 | 6 17 |
| T 8 | 22 20 | 16 11 | 0n19 | 19 30 | 0 49 | 21 52 | 1 15 | 23 11 | 2 39 | 7 34 | 1 16 | 12 46 | 2 21 | 21 35 | 0 30 | 22 23 | 0 55 | 15 23 | 7 43 | 15 24 | 15 2 | 17 18 | 16 30 | 6 17 |
| F 9 | 22 11 | 18 34 | 1 33 | 19 1 | 0 37 | 21 38 | 1 17 | 23 11 | 2 39 | 7 35 | 1 16 | 12 47 | 2 21 | 21 34 | 0 30 | 22 23 | 0 55 | 15 24 | 7 43 | 15 24 | 15 1 | 17 17 | 16 30 | 6 17 |
| S 10 | 22 3 | 19 50 | 2 43 | 18 33 | 0 23 | 21 23 | 1 18 | 23 11 | 2 39 | 7 36 | 1 16 | 12 48 | 2 21 | 21 34 | 0 30 | 22 23 | 0 55 | 15 24 | 7 42 | 15 23 | 15 0 | 17 15 | 16 29 | 6 17 |
| S 11 | 21 54 | 19 46 | 3 43 | 18 6 | 0 9 | 21 8 | 1 19 | 23 12 | 2 39 | 7 37 | 1 17 | 12 49 | 2 21 | 21 33 | 0 30 | 22 23 | 0 55 | 15 24 | 7 42 | 15 21 | 14 59 | 17 14 | 16 29 | 6 17 |
| M12 | 21 44 | 18 15 | 4 29 | 17 40 | 0n 6 | 20 52 | 1 20 | 23 13 | 2 39 | 7 38 | 1 17 | 12 50 | 2 21 | 21 32 | 0 30 | 22 23 | 0 55 | 15 24 | 7 42 | 15 18 | 14 58 | 17 13 | 16 28 | 6 17 |
| T 13 | 21 34 | 15 26 | 4 56 | 17 15 | 0 23 | 20 35 | 1 21 | 23 13 | 2 39 | 7 39 | 1 17 | 12 51 | 2 22 | 21 32 | 0 30 | 22 23 | 0 55 | 15 24 | 7 42 | 15 15 | 14 57 | 17 11 | 16 27 | 6 17 |
| W14 | 21 24 | 11 35 | 5 1 | 16 52 | 0 40 | 20 18 | 1 22 | 23 14 | 2 39 | 7 41 | 1 18 | 12 52 | 2 22 | 21 31 | 0 30 | 22 23 | 0 55 | 15 24 | 7 42 | 15 11 | 14 56 | 17 10 | 16 26 | 6 18 |
| T 15 | 21 13 | 7 3 | 4 45 | 16 31 | 0 57 | 20 0 | 1 23 | 23 15 | 2 39 | 7 42 | 1 18 | 12 53 | 2 22 | 21 30 | 0 30 | 22 23 | 0 55 | 15 24 | 7 42 | 15 8 | 14 55 | 17 9 | 16 26 | 6 18 |
| F 16 | 21 2 | 2 14 | 4 12 | 16 12 | 1 15 | 19 42 | 1 24 | 23 16 | 2 38 | 7 44 | 1 18 | 12 53 | 2 22 | 21 30 | 0 30 | 22 22 | 0 55 | 15 24 | 7 42 | 15 5 | 14 54 | 17 8 | 16 25 | 6 18 |
| S 17 | 20 51 | 2n33 | 3 23 | 15 57 | 1 34 | 19 23 | 1 25 | 23 17 | 2 38 | 7 45 | 1 18 | 12 54 | 2 22 | 21 29 | 0 30 | 22 22 | 0 55 | 15 24 | 7 41 | 15 4 | 14 53 | 17 6 | 16 24 | 6 18 |
| S 18 | 20 39 | 7 3 | 2 25 | 15 45 | 1 52 | 19 3 | 1 26 | 23 19 | 2 38 | 7 47 | 1 19 | 12 55 | 2 23 | 21 28 | 0 30 | 22 22 | 0 55 | 15 24 | 7 41 | 15 3 | 14 52 | 17 5 | 16 24 | 6 18 |
| M19 | 20 27 | 11 4 | 1 20 | 15 36 | 2 10 | 18 43 | 1 27 | 23 20 | 2 38 | 7 49 | 1 19 | 12 56 | 2 23 | 21 28 | 0 30 | 22 22 | 0 55 | 15 24 | 7 41 | 15 3 | 14 51 | 17 4 | 16 23 | 6 18 |
| T 20 | 20 14 | 14 26 | 0 14 | 15 31 | 2 27 | 18 23 | 1 27 | 23 21 | 2 37 | 7 50 | 1 19 | 12 57 | 2 23 | 21 27 | 0 30 | 22 22 | 0 55 | 15 24 | 7 41 | 15 3 | 14 50 | 17 3 | 16 22 | 6 18 |
| W21 | 20 1 | 17 4 | 0s52 | 15 29 | 2 43 | 18 1 | 1 28 | 23 23 | 2 37 | 7 52 | 1 19 | 12 57 | 2 23 | 21 26 | 0 30 | 22 22 | 0 55 | 15 24 | 7 41 | 15 3 | 14 49 | 17 1 | 16 21 | 6 19 |
| T 22 | 19 48 | 18 52 | 1 53 | 15 30 | 2 57 | 17 40 | 1 29 | 23 25 | 2 37 | 7 54 | 1 20 | 12 58 | 2 23 | 21 26 | 0 31 | 22 22 | 0 55 | 15 25 | 7 41 | 15 2 | 14 48 | 17 0 | 16 21 | 6 19 |
| F 23 | 19 34 | 19 47 | 2 49 | 15 35 | 3 10 | 17 18 | 1 29 | 23 26 | 2 36 | 7 56 | 1 20 | 12 59 | 2 24 | 21 25 | 0 31 | 22 22 | 0 55 | 15 25 | 7 40 | 15 1 | 14 47 | 16 59 | 16 20 | 6 19 |
| S 24 | 19 20 | 19 49 | 3 37 | 15 42 | 3 21 | 16 55 | 1 30 | 23 28 | 2 36 | 7 58 | 1 20 | 12 59 | 2 24 | 21 24 | 0 31 | 22 22 | 0 55 | 15 25 | 7 40 | 14 58 | 14 46 | 16 57 | 16 19 | 6 19 |
| S 25 | 19 5 | 18 59 | 4 15 | 15 52 | 3 29 | 16 32 | 1 30 | 23 30 | 2 35 | 8 0 | 1 20 | 13 0 | 2 24 | 21 24 | 0 31 | 22 21 | 0 55 | 15 25 | 7 40 | 14 55 | 14 45 | 16 56 | 16 18 | 6 19 |
| M26 | 18 50 | 17 19 | 4 42 | 16 3 | 3 34 | 16 9 | 1 30 | 23 32 | 2 35 | 8 2 | 1 21 | 13 1 | 2 24 | 21 23 | 0 31 | 22 21 | 0 55 | 15 25 | 7 40 | 14 51 | 14 44 | 16 55 | 16 17 | 6 19 |
| T 27 | 18 35 | 14 55 | 4 57 | 16 16 | 3 37 | 15 45 | 1 30 | 23 34 | 2 35 | 8 4 | 1 21 | 13 1 | 2 25 | 21 22 | 0 31 | 22 21 | 0 55 | 15 25 | 7 40 | 14 47 | 14 43 | 16 54 | 16 17 | 6 20 |
| W28 | 18 19 | 11 53 | 4 58 | 16 31 | 3 38 | 15 20 | 1 31 | 23 36 | 2 34 | 8 7 | 1 21 | 13 2 | 2 25 | 21 22 | 0 31 | 22 21 | 0 55 | 15 25 | 7 40 | 14 42 | 14 42 | 16 52 | 16 16 | 6 20 |
| T 29 | 18 4 | 8 22 | 4 47 | 16 45 | 3 37 | 14 56 | 1 31 | 23 39 | 2 34 | 8 9 | 1 21 | 13 2 | 2 25 | 21 21 | 0 31 | 22 21 | 0 55 | 15 25 | 7 39 | 14 37 | 14 41 | 16 51 | 16 15 | 6 20 |
| F 30 | 17 47 | 4 28 | 4 22 | 17 1 | 3 33 | 14 30 | 1 31 | 23 41 | 2 33 | 8 11 | 1 21 | 13 3 | 2 25 | 21 20 | 0 31 | 22 21 | 0 55 | 15 25 | 7 39 | 14 33 | 14 40 | 16 50 | 16 14 | 6 20 |
| S 31 | 17s31 | 0n22 | 3s46 | 17s16 | 3n28 | 14s 5 | 1s31 | 23n43 | 2n33 | 8n14 | 1n22 | 13s 3 | 2n25 | 21s20 | 0s31 | 22s21 | 0n55 | 15n26 | 7s39 | 14s30 | 14s39 | 16n48 | 16s13 | 6n21 |

Julian Day Number = 2327362.5, Delta T = 36.39 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'40, Lahiri = 19°06'41Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## FEBRUARY 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 43 29 | 11♒57'30 | 2♎43 | 27°R 0 | 27♒53 | 5♊31 | 12°R11 | 11♏41 | 26♉53 | 7♉47 | 19°R21 | 8°R48 | 9♏22 | 22♋16 | 16♉ 4 | S 1 |
| M 2 | 8 47 25 | 12°58'17 | 15°17 | 26♉26 | 29° 8 | 5°47 | 12♍ 5 | 11°43 | 26°56 | 7°49 | 19♊20 | 8♏44 | 9°19 | 22°22 | 16°10 | M 2 |
| T 3 | 8 51 22 | 13°59'04 | 28° 5 | 26° 1 | 0♓23 | 6° 4 | 11°58 | 11°45 | 27° 0 | 7°51 | 19°19 | 8°43 | 9°15 | 22°29 | 16°15 | T 3 |
| W 4 | 8 55 18 | 14°59'49 | 11♏11 | 25°43 | 1°38 | 6°21 | 11°52 | 11°46 | 27° 3 | 7°53 | 19°19 | 8°43 | 9°12 | 22°36 | 16°20 | W 4 |
| T 5 | 8 59 15 | 16° 0'33 | 24°39 | 25°34 | 2°53 | 6°38 | 11°46 | 11°48 | 27° 6 | 7°55 | 19°18 | 8°42 | 9° 9 | 22°42 | 16°25 | T 5 |
| F 6 | 9 3 11 | 17° 1'16 | 8♐32 | 25°D32 | 4° 8 | 6°56 | 11°39 | 11°49 | 27°10 | 7°57 | 19°18 | 8°41 | 9° 6 | 22°49 | 16°30 | F 6 |
| S 7 | 9 7 8 | 18° 1'59 | 22°50 | 25°37 | 5°23 | 7°14 | 11°33 | 11°51 | 27°13 | 7°58 | 19°17 | 8°38 | 9° 3 | 22°56 | 16°36 | S 7 |
| S 8 | 9 11 5 | 19° 2'40 | 7♑32 | 25°49 | 6°37 | 7°33 | 11°26 | 11°52 | 27°16 | 8° 0 | 19°17 | 8°31 | 8°59 | 23° 3 | 16°41 | S 8 |
| M 9 | 9 15 1 | 20° 3'20 | 22°32 | 26° 8 | 7°52 | 7°52 | 11°19 | 11°53 | 27°20 | 8° 2 | 19°16 | 8°22 | 8°56 | 23° 9 | 16°46 | M 9 |
| T 10 | 9 18 58 | 21° 3'58 | 7♒44 | 26°32 | 9° 7 | 8°12 | 11°12 | 11°54 | 27°23 | 8° 4 | 19°16 | 8°11 | 8°53 | 23°16 | 16°51 | T 10 |
| W11 | 9 22 54 | 22° 4'35 | 22°55 | 27° 1 | 10°22 | 8°31 | 11° 5 | 11°55 | 27°26 | 8° 6 | 19°15 | 8° 0 | 8°50 | 23°23 | 16°56 | W11 |
| T 12 | 9 26 51 | 23° 5'11 | 7♓56 | 27°36 | 11°37 | 8°52 | 10°58 | 11°56 | 27°30 | 8° 7 | 19°15 | 7°49 | 8°47 | 23°29 | 17° 1 | T 12 |
| F 13 | 9 30 47 | 24° 5'45 | 22°36 | 28°14 | 12°51 | 9°12 | 10°51 | 11°57 | 27°33 | 8° 9 | 19°14 | 7°41 | 8°44 | 23°36 | 17° 5 | F 13 |
| S 14 | 9 34 44 | 25° 6'17 | 6♈50 | 28°57 | 14° 6 | 9°33 | 10°44 | 11°57 | 27°36 | 8°11 | 19°14 | 7°34 | 8°40 | 23°43 | 17°10 | S 14 |
| S 15 | 9 38 40 | 26° 6'47 | 20°35 | 29°44 | 15°21 | 9°55 | 10°36 | 11°58 | 27°39 | 8°13 | 19°13 | 7°31 | 8°37 | 23°50 | 17°15 | S 15 |
| M16 | 9 42 37 | 27° 7'16 | 3♉50 | 0♒35 | 16°35 | 10°16 | 10°29 | 11°58 | 27°43 | 8°14 | 19°13 | 7°D30 | 8°34 | 23°56 | 17°20 | M16 |
| T 17 | 9 46 34 | 28° 7'43 | 16°40 | 1°29 | 17°50 | 10°38 | 10°22 | 11°58 | 27°46 | 8°16 | 19°13 | 7°30 | 8°31 | 24° 3 | 17°24 | T 17 |
| W18 | 9 50 30 | 29° 8'07 | 29° 7 | 2°25 | 19° 4 | 11° 1 | 10°14 | 11°59 | 27°49 | 8°17 | 19°12 | 7°R30 | 8°28 | 24°10 | 17°29 | W18 |
| T 19 | 9 54 27 | 0♓ 8'30 | 11♊18 | 3°25 | 20°19 | 11°23 | 10° 6 | 11°59 | 27°52 | 8°19 | 19°12 | 7°30 | 8°24 | 24°16 | 17°34 | T 19 |
| F 20 | 9 58 23 | 1° 8'51 | 23°17 | 4°27 | 21°33 | 11°46 | 9°59 | 11°R59 | 27°55 | 8°21 | 19°12 | 7°27 | 8°21 | 24°23 | 17°38 | F 20 |
| S 21 | 10 2 20 | 2° 9'10 | 5♋ 9 | 5°32 | 22°48 | 12° 9 | 9°51 | 11°59 | 27°58 | 8°22 | 19°12 | 7°22 | 8°18 | 24°30 | 17°43 | S 21 |
| S 22 | 10 6 16 | 3° 9'27 | 17° 0 | 6°39 | 24° 2 | 12°33 | 9°43 | 11°58 | 28° 1 | 8°24 | 19°11 | 7°14 | 8°15 | 24°37 | 17°47 | S 22 |
| M23 | 10 10 13 | 4° 9'42 | 28°51 | 7°48 | 25°17 | 12°57 | 9°36 | 11°58 | 28° 4 | 8°25 | 19°11 | 7° 5 | 8°12 | 24°43 | 17°52 | M23 |
| T 24 | 10 14 9 | 5° 9'55 | 10♌47 | 8°59 | 26°31 | 13°21 | 9°28 | 11°58 | 28° 7 | 8°27 | 19°11 | 6°53 | 8° 9 | 24°50 | 17°56 | T 24 |
| W25 | 10 18 6 | 6°10'07 | 22°49 | 10°12 | 27°45 | 13°45 | 9°20 | 11°57 | 28°10 | 8°28 | 19°11 | 6°41 | 8° 5 | 24°57 | 18° 0 | W25 |
| T 26 | 10 22 3 | 7°10'16 | 4♍58 | 11°26 | 29° 0 | 14°10 | 9°12 | 11°57 | 28°13 | 8°29 | 19°11 | 6°29 | 8° 2 | 25° 4 | 18° 5 | T 26 |
| F 27 | 10 25 59 | 8°10'23 | 17°16 | 12°43 | 0♈14 | 14°35 | 9° 4 | 11°56 | 28°16 | 8°31 | 19°11 | 6°19 | 7°59 | 25°10 | 18° 9 | F 27 |
| S 28 | 10 29 56 | 9°10'29 | 29°43 | 14° 1 | 1°28 | 15° 0 | 8°56 | 11°55 | 28°19 | 8°32 | 19°10 | 6°11 | 7°56 | 25°17 | 18°13 | S 28 |
| S 29 | 10 33 52 | 10♓10'33 | 12♎20 | 15♒21 | 2♈42 | 15♊25 | 8♍49 | 11♏54 | 28♉22 | 8♉33 | 19♊10 | 6♏ 6 | 7♏53 | 25♋24 | 18♉17 | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s14 | 3s48 | 2s58 | 17s31 | 3n21 | 13s39 | 1s31 | 23n46 | 2n32 | 8n16 | 1n22 | 13s 3 | 2n26 | 21s19 | 0s31 | 22s21 | 0n55 | 15n26 | 7s39 | 14s28 | 14s38 | 16n47 | 16s13 | 6n21 |
| M 2 | 16 57 | 7 53 | 2 0 | 17 45 | 3 12 | 13 12 | 1 30 | 23 48 | 2 32 | 8 18 | 1 22 | 13 4 | 2 26 | 21 18 | 0 31 | 22 20 | 0 55 | 15 26 | 7 39 | 14 26 | 14 37 | 16 46 | 16 12 | 6 21 |
| T 3 | 16 40 | 11 41 | 0 56 | 17 59 | 3 3 | 12 46 | 1 30 | 23 50 | 2 31 | 8 21 | 1 22 | 13 4 | 2 26 | 21 18 | 0 31 | 22 20 | 0 55 | 15 26 | 7 38 | 14 26 | 14 36 | 16 44 | 16 11 | 6 21 |
| W 4 | 16 22 | 15 0 | 0n13 | 18 13 | 2 52 | 12 19 | 1 30 | 23 53 | 2 31 | 8 24 | 1 22 | 13 4 | 2 26 | 21 17 | 0 31 | 22 20 | 0 55 | 15 26 | 7 38 | 14 26 | 14 35 | 16 43 | 16 10 | 6 22 |
| T 5 | 16 4 | 17 37 | 1 23 | 18 25 | 2 42 | 11 51 | 1 30 | 23 55 | 2 30 | 8 26 | 1 23 | 13 5 | 2 27 | 21 17 | 0 31 | 22 20 | 0 55 | 15 26 | 7 38 | 14 26 | 14 34 | 16 42 | 16 9 | 6 22 |
| F 6 | 15 46 | 19 17 | 2 31 | 18 37 | 2 30 | 11 24 | 1 29 | 23 58 | 2 30 | 8 29 | 1 23 | 13 5 | 2 27 | 21 16 | 0 31 | 22 20 | 0 55 | 15 26 | 7 38 | 14 25 | 14 33 | 16 40 | 16 8 | 6 22 |
| S 7 | 15 27 | 19 47 | 3 31 | 18 47 | 2 18 | 10 56 | 1 29 | 24 1 | 2 29 | 8 32 | 1 23 | 13 5 | 2 27 | 21 15 | 0 31 | 22 20 | 0 55 | 15 27 | 7 38 | 14 24 | 14 32 | 16 39 | 16 7 | 6 22 |
| S 8 | 15 8 | 18 58 | 4 18 | 18 57 | 2 6 | 10 27 | 1 28 | 24 3 | 2 29 | 8 34 | 1 23 | 13 5 | 2 27 | 21 15 | 0 31 | 22 20 | 0 55 | 15 27 | 7 38 | 14 22 | 14 31 | 16 38 | 16 6 | 6 23 |
| M 9 | 14 49 | 16 50 | 4 50 | 19 5 | 1 54 | 9 59 | 1 27 | 24 6 | 2 28 | 8 37 | 1 23 | 13 5 | 2 28 | 21 14 | 0 31 | 22 20 | 0 55 | 15 27 | 7 37 | 14 19 | 14 30 | 16 36 | 16 6 | 6 23 |
| T 10 | 14 30 | 13 31 | 5 1 | 19 13 | 1 42 | 9 30 | 1 27 | 24 8 | 2 28 | 8 40 | 1 24 | 13 5 | 2 28 | 21 13 | 0 31 | 22 19 | 0 55 | 15 27 | 7 37 | 14 16 | 14 29 | 16 35 | 16 5 | 6 23 |
| W11 | 14 11 | 9 19 | 4 51 | 19 19 | 1 30 | 9 1 | 1 26 | 24 11 | 2 27 | 8 43 | 1 24 | 13 5 | 2 28 | 21 13 | 0 31 | 22 19 | 0 55 | 15 27 | 7 37 | 14 12 | 14 28 | 16 34 | 16 4 | 6 24 |
| T 12 | 13 51 | 4 35 | 4 21 | 19 24 | 1 18 | 8 32 | 1 25 | 24 14 | 2 27 | 8 45 | 1 24 | 13 5 | 2 28 | 21 12 | 0 31 | 22 19 | 0 55 | 15 27 | 7 37 | 14 9 | 14 27 | 16 32 | 16 3 | 6 24 |
| F 13 | 13 31 | 0n20 | 3 34 | 19 28 | 1 7 | 8 2 | 1 24 | 24 16 | 2 26 | 8 48 | 1 24 | 13 5 | 2 28 | 21 11 | 0 31 | 22 19 | 0 55 | 15 28 | 7 37 | 14 6 | 14 26 | 16 31 | 16 2 | 6 24 |
| S 14 | 13 11 | 5 5 | 2 35 | 19 30 | 0 55 | 7 33 | 1 23 | 24 19 | 2 25 | 8 51 | 1 24 | 13 5 | 2 29 | 21 11 | 0 31 | 22 19 | 0 55 | 15 28 | 7 36 | 14 4 | 14 25 | 16 30 | 16 1 | 6 25 |
| S 15 | 12 50 | 9 25 | 1 29 | 19 32 | 0 44 | 7 3 | 1 22 | 24 22 | 2 25 | 8 54 | 1 24 | 13 5 | 2 29 | 21 10 | 0 31 | 22 19 | 0 55 | 15 28 | 7 36 | 14 3 | 14 24 | 16 28 | 16 0 | 6 25 |
| M16 | 12 30 | 13 7 | 0 19 | 19 32 | 0 33 | 6 33 | 1 21 | 24 24 | 2 24 | 8 57 | 1 25 | 13 5 | 2 29 | 21 10 | 0 31 | 22 19 | 0 55 | 15 28 | 7 36 | 14 2 | 14 23 | 16 27 | 15 59 | 6 25 |
| T 17 | 12 9 | 16 4 | 0s49 | 19 31 | 0 22 | 6 3 | 1 20 | 24 27 | 2 24 | 9 0 | 1 25 | 13 5 | 2 29 | 21 9 | 0 31 | 22 19 | 0 55 | 15 28 | 7 36 | 14 2 | 14 22 | 16 26 | 15 58 | 6 26 |
| W18 | 11 48 | 18 10 | 1 52 | 19 28 | 0 11 | 5 32 | 1 19 | 24 30 | 2 23 | 9 3 | 1 25 | 13 5 | 2 30 | 21 8 | 0 31 | 22 19 | 0 55 | 15 28 | 7 35 | 14 2 | 14 21 | 16 24 | 15 57 | 6 26 |
| T 19 | 11 27 | 19 22 | 2 49 | 19 24 | 0 1 | 5 2 | 1 17 | 24 32 | 2 23 | 9 6 | 1 25 | 13 5 | 2 30 | 21 8 | 0 31 | 22 18 | 0 55 | 15 29 | 7 35 | 14 2 | 14 20 | 16 23 | 15 56 | 6 26 |
| F 20 | 11 5 | 19 41 | 3 38 | 19 19 | 0s 9 | 4 31 | 1 16 | 24 35 | 2 22 | 9 9 | 1 25 | 13 5 | 2 30 | 21 7 | 0 31 | 22 18 | 0 55 | 15 29 | 7 35 | 14 1 | 14 19 | 16 22 | 15 55 | 6 27 |
| S 21 | 10 44 | 19 6 | 4 17 | 19 13 | 0 18 | 4 0 | 1 14 | 24 38 | 2 21 | 9 12 | 1 25 | 13 4 | 2 30 | 21 7 | 0 31 | 22 18 | 0 55 | 15 29 | 7 35 | 14 0 | 14 18 | 16 20 | 15 55 | 6 27 |
| S 22 | 10 22 | 17 42 | 4 45 | 19 5 | 0 28 | 3 29 | 1 13 | 24 40 | 2 21 | 9 15 | 1 25 | 13 4 | 2 31 | 21 6 | 0 31 | 22 18 | 0 55 | 15 29 | 7 35 | 13 57 | 14 17 | 16 19 | 15 54 | 6 27 |
| M23 | 10 0 | 15 32 | 5 0 | 18 56 | 0 36 | 2 58 | 1 11 | 24 43 | 2 20 | 9 18 | 1 25 | 13 4 | 2 31 | 21 5 | 0 31 | 22 18 | 0 55 | 15 29 | 7 34 | 13 54 | 14 16 | 16 18 | 15 53 | 6 28 |
| T 24 | 9 38 | 12 43 | 5 2 | 18 46 | 0 45 | 2 27 | 1 10 | 24 45 | 2 20 | 9 21 | 1 25 | 13 3 | 2 31 | 21 5 | 0 31 | 22 18 | 0 55 | 15 30 | 7 34 | 13 50 | 14 15 | 16 16 | 15 52 | 6 28 |
| W25 | 9 16 | 9 21 | 4 51 | 18 34 | 0 53 | 1 56 | 1 8 | 24 48 | 2 19 | 9 24 | 1 26 | 13 3 | 2 31 | 21 4 | 0 31 | 22 18 | 0 55 | 15 30 | 7 34 | 13 46 | 14 14 | 16 15 | 15 51 | 6 29 |
| T 26 | 8 54 | 5 34 | 4 27 | 18 21 | 1 1 | 1 25 | 1 6 | 24 50 | 2 19 | 9 27 | 1 26 | 13 3 | 2 31 | 21 4 | 0 31 | 22 18 | 0 55 | 15 30 | 7 34 | 13 42 | 14 13 | 16 13 | 15 50 | 6 29 |
| F 27 | 8 31 | 1 30 | 3 50 | 18 7 | 1 8 | 0 54 | 1 5 | 24 52 | 2 18 | 9 30 | 1 26 | 13 2 | 2 32 | 21 3 | 0 31 | 22 18 | 0 55 | 15 30 | 7 34 | 13 39 | 14 12 | 16 12 | 15 49 | 6 29 |
| S 28 | 8 9 | 2s40 | 3 2 | 17 51 | 1 15 | 0 22 | 1 3 | 24 55 | 2 17 | 9 33 | 1 26 | 13 2 | 2 32 | 21 3 | 0 31 | 22 17 | 0 55 | 15 30 | 7 33 | 13 36 | 14 11 | 16 11 | 15 48 | 6 30 |
| S 29 | 7s46 | 6s47 | 2s 3 | 17s34 | 1s22 | 0n 9 | 1s 1 | 24n57 | 2n17 | 9n36 | 1n26 | 13s 1 | 2n32 | 21s 2 | 0s31 | 22s17 | 0n55 | 15n31 | 7s33 | 13s35 | 14s10 | 16n 9 | 15s47 | 6n30 |

Julian Day Number = 2327393.5, Delta T = 36.33 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'45, Lahiri = 19°06'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## MARCH 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 37 49 | 11♓10'35 | 25♎ 8 | 16♒42 | 3♈57 | 15♊51 | 8°R41 | 11°R53 | 28♑25 | 8♑35 | 19°R10 | 6°R 3 | 7♏50 | 25♋30 | 18♑21 | M 1 |
| T 2 | 10 41 45 | 12°10'35 | 8♏ 8 | 18° 4 | 5°11 | 16°16 | 8♍33 | 11♏52 | 28°28 | 8°36 | 19♊10 | 6°D 3 | 7°46 | 25°37 | 18°25 | T 2 |
| W 3 | 10 45 42 | 13°10'34 | 21°22 | 19°28 | 6°25 | 16°42 | 8°25 | 11°51 | 28°30 | 8°37 | 19°D10 | 6♏ 3 | 7°43 | 25°44 | 18°29 | W 3 |
| T 4 | 10 49 38 | 14°10'31 | 4♐52 | 20°54 | 7°39 | 17° 9 | 8°17 | 11°50 | 28°33 | 8°38 | 19°10 | 6° 4 | 7°40 | 25°51 | 18°33 | T 4 |
| F 5 | 10 53 35 | 15°10'27 | 18°40 | 22°21 | 8°53 | 17°35 | 8°10 | 11°48 | 28°36 | 8°40 | 19°10 | 6°R 5 | 7°37 | 25°57 | 18°37 | F 5 |
| S 6 | 10 57 32 | 16°10'21 | 2♑46 | 23°49 | 10° 7 | 18° 2 | 8° 2 | 11°47 | 28°38 | 8°41 | 19°10 | 6° 3 | 7°34 | 26° 4 | 18°41 | S 6 |
| S 7 | 11 1 28 | 17°10'13 | 17° 9 | 25°18 | 11°21 | 18°29 | 7°54 | 11°45 | 28°41 | 8°42 | 19°10 | 6° 0 | 7°30 | 26°11 | 18°44 | S 7 |
| M 8 | 11 5 25 | 18°10'04 | 1♒47 | 26°49 | 12°34 | 18°56 | 7°47 | 11°43 | 28°44 | 8°43 | 19°11 | 5°55 | 7°27 | 26°17 | 18°48 | M 8 |
| T 9 | 11 9 21 | 19° 9'53 | 16°34 | 28°21 | 13°48 | 19°23 | 7°39 | 11°42 | 28°46 | 8°44 | 19°11 | 5°48 | 7°24 | 26°24 | 18°52 | T 9 |
| W10 | 11 13 18 | 20° 9'40 | 1♓23 | 29°54 | 15° 2 | 19°50 | 7°31 | 11°40 | 28°49 | 8°45 | 19°11 | 5°41 | 7°21 | 26°31 | 18°55 | W10 |
| T 11 | 11 17 14 | 21° 9'25 | 16° 6 | 1♓28 | 16°16 | 20°18 | 7°24 | 11°38 | 28°51 | 8°46 | 19°11 | 5°34 | 7°18 | 26°38 | 18°59 | T 11 |
| F 12 | 11 21 11 | 22° 9'08 | 0♈34 | 3° 4 | 17°30 | 20°46 | 7°17 | 11°36 | 28°54 | 8°47 | 19°11 | 5°28 | 7°15 | 26°44 | 19° 2 | F 12 |
| S 13 | 11 25 7 | 23° 8'49 | 14°42 | 4°41 | 18°43 | 21°14 | 7° 9 | 11°33 | 28°56 | 8°48 | 19°11 | 5°24 | 7°11 | 26°51 | 19° 5 | S 13 |
| S 14 | 11 29 4 | 24° 8'28 | 28°26 | 6°19 | 19°57 | 21°42 | 7° 2 | 11°31 | 28°58 | 8°49 | 19°12 | 5°22 | 7° 8 | 26°58 | 19° 9 | S 14 |
| M15 | 11 33 0 | 25° 8'05 | 11♉44 | 7°58 | 21°10 | 22°11 | 6°55 | 11°29 | 29° 1 | 8°50 | 19°12 | 5°D22 | 7° 5 | 27° 4 | 19°12 | M15 |
| T 16 | 11 36 57 | 26° 7'40 | 24°38 | 9°39 | 22°24 | 22°39 | 6°48 | 11°26 | 29° 3 | 8°50 | 19°12 | 5°23 | 7° 2 | 27°11 | 19°15 | T 16 |
| W17 | 11 40 54 | 27° 7'12 | 7♊10 | 11°21 | 23°38 | 23° 8 | 6°41 | 11°24 | 29° 5 | 8°51 | 19°13 | 5°25 | 6°59 | 27°18 | 19°18 | W17 |
| T 18 | 11 44 50 | 28° 6'42 | 19°25 | 13° 4 | 24°51 | 23°37 | 6°34 | 11°21 | 29° 8 | 8°52 | 19°13 | 5°26 | 6°56 | 27°25 | 19°21 | T 18 |
| F 19 | 11 48 47 | 29° 6'10 | 1♋28 | 14°49 | 26° 4 | 24° 6 | 6°27 | 11°19 | 29°10 | 8°53 | 19°13 | 5°R27 | 6°52 | 27°31 | 19°24 | F 19 |
| S 20 | 11 52 43 | 0♈ 5'35 | 13°22 | 16°35 | 27°18 | 24°35 | 6°20 | 11°16 | 29°12 | 8°54 | 19°14 | 5°26 | 6°49 | 27°38 | 19°27 | S 20 |
| S 21 | 11 56 40 | 1° 4'58 | 25°14 | 18°22 | 28°31 | 25° 4 | 6°14 | 11°13 | 29°14 | 8°54 | 19°14 | 5°23 | 6°46 | 27°45 | 19°30 | S 21 |
| M22 | 12 0 36 | 2° 4'19 | 7♌ 7 | 20°10 | 29°44 | 25°34 | 6° 7 | 11°10 | 29°16 | 8°55 | 19°14 | 5°19 | 6°43 | 27°52 | 19°32 | M22 |
| T 23 | 12 4 33 | 3° 3'37 | 19° 6 | 22° 0 | 0♉57 | 26° 4 | 6° 1 | 11° 7 | 29°18 | 8°55 | 19°15 | 5°14 | 6°40 | 27°58 | 19°35 | T 23 |
| W24 | 12 8 29 | 4° 2'54 | 1♍13 | 23°51 | 2°10 | 26°33 | 5°55 | 11° 4 | 29°20 | 8°56 | 19°15 | 5° 8 | 6°36 | 28° 5 | 19°38 | W24 |
| T 25 | 12 12 26 | 5° 2'07 | 13°31 | 25°44 | 3°24 | 27° 3 | 5°49 | 11° 1 | 29°22 | 8°57 | 19°16 | 5° 3 | 6°33 | 28°12 | 19°40 | T 25 |
| F 26 | 12 16 23 | 6° 1'19 | 26° 2 | 27°38 | 4°37 | 27°33 | 5°43 | 10°58 | 29°24 | 8°57 | 19°16 | 4°58 | 6°30 | 28°18 | 19°43 | F 26 |
| S 27 | 12 20 19 | 7° 0'29 | 8♎45 | 29°33 | 5°49 | 28° 3 | 5°37 | 10°54 | 29°26 | 8°58 | 19°17 | 4°55 | 6°27 | 28°25 | 19°45 | S 27 |
| S 28 | 12 24 16 | 7°59'36 | 21°42 | 1♈29 | 7° 2 | 28°34 | 5°31 | 10°51 | 29°27 | 8°58 | 19°17 | 4°53 | 6°24 | 28°32 | 19°47 | S 28 |
| M29 | 12 28 12 | 8°58'42 | 4♏51 | 3°27 | 8°15 | 29° 4 | 5°26 | 10°47 | 29°29 | 8°58 | 19°18 | 4°D52 | 6°21 | 28°39 | 19°49 | M29 |
| T 30 | 12 32 9 | 9°57'46 | 18°13 | 5°26 | 9°28 | 29°35 | 5°20 | 10°44 | 29°31 | 8°59 | 19°19 | 4°53 | 6°17 | 28°45 | 19°52 | T 30 |
| W31 | 12 36 5 | 10♈56'48 | 1♐47 | 7♈27 | 10♉41 | 0♋ 5 | 5♍15 | 10♏40 | 29♑33 | 8♑59 | 19♊19 | 4♏54 | 6♏14 | 28♋52 | 19♑54 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 7s23 | 10s39 | 0s58 | 17s16 | 1s29 | 0n40 | 0s59 | 24n59 | 2n16 | 9n39 | 1n26 | 13s 1 | 2n32 | 21s 1 | 0s31 | 22s17 | 0n55 | 15n31 | 7s33 | 13s34 | 14s 9 | 16n 8 | 15s46 | 6n31 |
| T 2 | 7 0 | 14 4 | 0n11 | 16 56 | 1 35 | 1 12 | 0 57 | 25 1 | 2 16 | 9 42 | 1 26 | 13 0 | 2 33 | 21 1 | 0 31 | 22 17 | 0 55 | 15 31 | 7 33 | 13 34 | 14 8 | 16 7 | 15 45 | 6 31 |
| W 3 | 6 37 | 16 50 | 1 21 | 16 35 | 1 40 | 1 43 | 0 55 | 25 3 | 2 15 | 9 45 | 1 26 | 13 0 | 2 33 | 21 0 | 0 31 | 22 17 | 0 55 | 15 31 | 7 33 | 13 34 | 14 7 | 16 5 | 15 44 | 6 32 |
| T 4 | 6 14 | 18 43 | 2 29 | 16 13 | 1 45 | 2 14 | 0 53 | 25 5 | 2 15 | 9 48 | 1 26 | 12 59 | 2 33 | 21 0 | 0 31 | 22 17 | 0 55 | 15 31 | 7 32 | 13 34 | 14 6 | 16 4 | 15 43 | 6 32 |
| F 5 | 5 51 | 19 32 | 3 29 | 15 49 | 1 50 | 2 45 | 0 50 | 25 7 | 2 14 | 9 51 | 1 26 | 12 58 | 2 33 | 20 59 | 0 31 | 22 17 | 0 55 | 15 32 | 7 32 | 13 34 | 14 4 | 16 2 | 15 42 | 6 32 |
| S 6 | 5 28 | 19 10 | 4 17 | 15 25 | 1 55 | 3 16 | 0 48 | 25 9 | 2 13 | 9 54 | 1 26 | 12 58 | 2 33 | 20 59 | 0 31 | 22 17 | 0 55 | 15 32 | 7 32 | 13 34 | 14 3 | 16 1 | 15 41 | 6 33 |
| S 7 | 5 5 | 17 34 | 4 51 | 14 58 | 1 59 | 3 47 | 0 46 | 25 11 | 2 13 | 9 57 | 1 26 | 12 57 | 2 34 | 20 58 | 0 31 | 22 17 | 0 55 | 15 32 | 7 32 | 13 33 | 14 2 | 16 0 | 15 40 | 6 33 |
| M 8 | 4 41 | 14 49 | 5 7 | 14 31 | 2 2 | 4 18 | 0 44 | 25 13 | 2 12 | 10 0 | 1 26 | 12 56 | 2 34 | 20 58 | 0 31 | 22 17 | 0 55 | 15 32 | 7 31 | 13 31 | 14 1 | 15 58 | 15 39 | 6 34 |
| T 9 | 4 18 | 11 5 | 5 2 | 14 2 | 2 6 | 4 49 | 0 41 | 25 15 | 2 12 | 10 3 | 1 26 | 12 56 | 2 34 | 20 57 | 0 31 | 22 16 | 0 55 | 15 33 | 7 31 | 13 29 | 14 0 | 15 57 | 15 38 | 6 34 |
| W10 | 3 54 | 6 41 | 4 37 | 13 32 | 2 8 | 5 20 | 0 39 | 25 16 | 2 11 | 10 6 | 1 26 | 12 55 | 2 34 | 20 57 | 0 31 | 22 16 | 0 55 | 15 33 | 7 31 | 13 26 | 13 59 | 15 55 | 15 38 | 6 35 |
| T 11 | 3 31 | 1 54 | 3 54 | 13 0 | 2 11 | 5 51 | 0 36 | 25 18 | 2 11 | 10 8 | 1 26 | 12 54 | 2 34 | 20 56 | 0 31 | 22 16 | 0 55 | 15 33 | 7 31 | 13 24 | 13 58 | 15 54 | 15 37 | 6 35 |
| F 12 | 3 7 | 2n56 | 2 57 | 12 28 | 2 13 | 6 21 | 0 34 | 25 19 | 2 10 | 10 11 | 1 26 | 12 53 | 2 35 | 20 56 | 0 31 | 22 16 | 0 55 | 15 33 | 7 31 | 13 22 | 13 57 | 15 53 | 15 36 | 6 36 |
| S 13 | 2 44 | 7 29 | 1 50 | 11 54 | 2 14 | 6 52 | 0 31 | 25 21 | 2 9 | 10 14 | 1 26 | 12 52 | 2 35 | 20 55 | 0 31 | 22 16 | 0 55 | 15 33 | 7 30 | 13 21 | 13 56 | 15 51 | 15 35 | 6 36 |
| S 14 | 2 20 | 11 31 | 0 38 | 11 18 | 2 15 | 7 22 | 0 29 | 25 22 | 2 9 | 10 16 | 1 26 | 12 51 | 2 35 | 20 55 | 0 31 | 22 16 | 0 55 | 15 34 | 7 30 | 13 20 | 13 55 | 15 50 | 15 34 | 6 37 |
| M15 | 1 56 | 14 50 | 0s35 | 10 42 | 2 16 | 7 52 | 0 26 | 25 23 | 2 8 | 10 19 | 1 26 | 12 51 | 2 35 | 20 54 | 0 31 | 22 16 | 0 55 | 15 34 | 7 30 | 13 20 | 13 54 | 15 48 | 15 33 | 6 37 |
| T 16 | 1 33 | 17 18 | 1 43 | 10 4 | 2 16 | 8 22 | 0 23 | 25 24 | 2 8 | 10 22 | 1 26 | 12 50 | 2 35 | 20 54 | 0 32 | 22 16 | 0 55 | 15 34 | 7 30 | 13 21 | 13 53 | 15 47 | 15 32 | 6 38 |
| W17 | 1 9 | 18 51 | 2 44 | 9 25 | 2 16 | 8 52 | 0 21 | 25 25 | 2 7 | 10 24 | 1 26 | 12 49 | 2 35 | 20 53 | 0 32 | 22 16 | 0 55 | 15 34 | 7 30 | 13 21 | 13 52 | 15 46 | 15 31 | 6 38 |
| T 18 | 0 45 | 19 28 | 3 37 | 8 45 | 2 15 | 9 22 | 0 18 | 25 26 | 2 6 | 10 27 | 1 26 | 12 48 | 2 36 | 20 53 | 0 32 | 22 16 | 0 55 | 15 35 | 7 29 | 13 22 | 13 51 | 15 44 | 15 30 | 6 39 |
| F 19 | 0 21 | 19 10 | 4 19 | 8 3 | 2 14 | 9 51 | 0 15 | 25 27 | 2 6 | 10 29 | 1 26 | 12 47 | 2 36 | 20 53 | 0 32 | 22 16 | 0 55 | 15 35 | 7 29 | 13 22 | 13 50 | 15 43 | 15 29 | 6 39 |
| S 20 | 0n 2 | 18 1 | 4 49 | 7 20 | 2 12 | 10 20 | 0 13 | 25 27 | 2 5 | 10 32 | 1 26 | 12 46 | 2 36 | 20 52 | 0 32 | 22 16 | 0 55 | 15 35 | 7 29 | 13 21 | 13 49 | 15 41 | 15 28 | 6 40 |
| S 21 | 0 26 | 16 6 | 5 7 | 6 36 | 2 10 | 10 49 | 0 10 | 25 28 | 2 5 | 10 34 | 1 26 | 12 45 | 2 36 | 20 52 | 0 32 | 22 16 | 0 55 | 15 35 | 7 29 | 13 20 | 13 48 | 15 40 | 15 27 | 6 40 |
| M22 | 0 50 | 13 30 | 5 11 | 5 51 | 2 7 | 11 17 | 0 7 | 25 29 | 2 4 | 10 36 | 1 26 | 12 44 | 2 36 | 20 51 | 0 32 | 22 16 | 0 56 | 15 36 | 7 28 | 13 19 | 13 47 | 15 38 | 15 26 | 6 41 |
| T 23 | 1 13 | 10 20 | 5 2 | 5 5 | 2 4 | 11 46 | 0 4 | 25 29 | 2 4 | 10 39 | 1 26 | 12 43 | 2 36 | 20 51 | 0 32 | 22 15 | 0 56 | 15 36 | 7 28 | 13 17 | 13 46 | 15 37 | 15 26 | 6 41 |
| W24 | 1 37 | 6 42 | 4 40 | 4 17 | 2 1 | 12 14 | 0 1 | 25 29 | 2 3 | 10 41 | 1 25 | 12 42 | 2 37 | 20 51 | 0 32 | 22 15 | 0 56 | 15 36 | 7 28 | 13 16 | 13 45 | 15 36 | 15 25 | 6 42 |
| T 25 | 2 0 | 2 44 | 4 5 | 3 29 | 1 56 | 12 42 | 0n 2 | 25 29 | 2 2 | 10 43 | 1 25 | 12 40 | 2 37 | 20 50 | 0 32 | 22 15 | 0 56 | 15 36 | 7 28 | 13 14 | 13 44 | 15 34 | 15 24 | 6 42 |
| F 26 | 2 24 | 1s26 | 3 17 | 2 39 | 1 52 | 13 9 | 0 5 | 25 29 | 2 2 | 10 45 | 1 25 | 12 39 | 2 37 | 20 50 | 0 32 | 22 15 | 0 56 | 15 37 | 7 28 | 13 12 | 13 43 | 15 33 | 15 23 | 6 43 |
| S 27 | 2 47 | 5 36 | 2 18 | 1 48 | 1 46 | 13 36 | 0 8 | 25 29 | 2 1 | 10 47 | 1 25 | 12 38 | 2 37 | 20 50 | 0 32 | 22 15 | 0 56 | 15 37 | 7 27 | 13 11 | 13 42 | 15 31 | 15 22 | 6 44 |
| S 28 | 3 11 | 9 35 | 1 12 | 0 57 | 1 41 | 14 3 | 0 11 | 25 29 | 2 1 | 10 49 | 1 25 | 12 37 | 2 37 | 20 49 | 0 32 | 22 15 | 0 56 | 15 37 | 7 27 | 13 10 | 13 41 | 15 30 | 15 21 | 6 44 |
| M29 | 3 34 | 13 10 | 0 0 | 0 4 | 1 34 | 14 30 | 0 14 | 25 29 | 2 0 | 10 51 | 1 25 | 12 36 | 2 37 | 20 49 | 0 32 | 22 15 | 0 56 | 15 37 | 7 27 | 13 10 | 13 39 | 15 28 | 15 20 | 6 45 |
| T 30 | 3 57 | 16 7 | 1n13 | 0n49 | 1 28 | 14 56 | 0 17 | 25 29 | 2 0 | 10 53 | 1 25 | 12 35 | 2 37 | 20 49 | 0 32 | 22 15 | 0 56 | 15 38 | 7 27 | 13 10 | 13 38 | 15 27 | 15 20 | 6 45 |
| W31 | 4n20 | 18s14 | 2n23 | 1n44 | 1s20 | 15n22 | 0n20 | 25n28 | 1n59 | 10n55 | 1n25 | 12s33 | 2n38 | 20s48 | 0s32 | 22s15 | 0n56 | 15n38 | 7s27 | 13s11 | 13s37 | 15n26 | 15s19 | 6n46 |

Julian Day Number = 2327422.5, Delta T = 36.27 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'49, Lahiri = 19°06'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## APRIL 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 40 2 | 11♈55'48 | 15♐32 | 9♈28 | 11♉53 | 0♋36 | 5°R10 | 10°R37 | 29♏34 | 8♏59 | 19♊20 | 4♏55 | 6♏11 | 28♋59 | 19♏56 | T 1 |
| F 2 | 12 43 58 | 12°54'46 | 29°28 | 11°31 | 13° 6 | 1° 7 | 5♍ 5 | 10♏33 | 29°36 | 9° 0 | 19°20 | 4°57 | 6° 8 | 29° 5 | 19°58 | F 2 |
| S 3 | 12 47 55 | 13°53'43 | 13♏33 | 13°35 | 14°19 | 1°38 | 5° 0 | 10°29 | 29°37 | 9° 0 | 19°21 | 4°R57 | 6° 5 | 29°12 | 19°59 | S 3 |
| S 4 | 12 51 52 | 14°52'38 | 27°47 | 15°39 | 15°31 | 2° 9 | 4°55 | 10°26 | 29°39 | 9° 0 | 19°22 | 4°57 | 6° 1 | 29°19 | 20° 1 | S 4 |
| M 5 | 12 55 48 | 15°51'31 | 12♒ 7 | 17°44 | 16°44 | 2°40 | 4°51 | 10°22 | 29°40 | 9° 0 | 19°22 | 4°55 | 5°58 | 29°26 | 20° 3 | M 5 |
| T 6 | 12 59 45 | 16°50'23 | 26°29 | 19°50 | 17°56 | 3°12 | 4°46 | 10°18 | 29°42 | 9° 1 | 19°23 | 4°53 | 5°55 | 29°32 | 20° 4 | T 6 |
| W 7 | 13 3 41 | 17°49'12 | 10♓49 | 21°56 | 19° 8 | 3°43 | 4°42 | 10°14 | 29°43 | 9° 1 | 19°24 | 4°51 | 5°52 | 29°39 | 20° 6 | W 7 |
| T 8 | 13 7 38 | 18°48'00 | 25° 3 | 24° 2 | 20°21 | 4°15 | 4°38 | 10°10 | 29°44 | 9° 1 | 19°25 | 4°49 | 5°49 | 29°46 | 20° 7 | T 8 |
| F 9 | 13 11 34 | 19°46'46 | 9♈ 7 | 26° 8 | 21°33 | 4°46 | 4°34 | 10° 6 | 29°46 | 9° 1 | 19°25 | 4°47 | 5°46 | 29°53 | 20° 9 | F 9 |
| S 10 | 13 15 31 | 20°45'30 | 22°55 | 28°14 | 22°45 | 5°18 | 4°31 | 10° 2 | 29°47 | 9°R 1 | 19°26 | 4°46 | 5°42 | 29°59 | 20°10 | S 10 |
| S 11 | 13 19 27 | 21°44'12 | 6♉25 | 0♉19 | 23°57 | 5°50 | 4°27 | 9°57 | 29°48 | 9° 1 | 19°27 | 4°D46 | 5°39 | 0♌ 6 | 20°11 | S 11 |
| M12 | 13 23 24 | 22°42'52 | 19°35 | 2°23 | 25° 9 | 6°22 | 4°24 | 9°53 | 29°49 | 9° 1 | 19°28 | 4°46 | 5°36 | 0°13 | 20°13 | M12 |
| T 13 | 13 27 20 | 23°41'30 | 2♊26 | 4°25 | 26°21 | 6°54 | 4°21 | 9°49 | 29°50 | 9° 1 | 19°29 | 4°47 | 5°33 | 0°19 | 20°14 | T 13 |
| W14 | 13 31 17 | 24°40'06 | 14°59 | 6°26 | 27°33 | 7°26 | 4°18 | 9°45 | 29°51 | 9° 0 | 19°30 | 4°48 | 5°30 | 0°26 | 20°15 | W14 |
| T 15 | 13 35 14 | 25°38'40 | 27°16 | 8°24 | 28°45 | 7°58 | 4°15 | 9°41 | 29°52 | 9° 0 | 19°31 | 4°49 | 5°27 | 0°33 | 20°16 | T 15 |
| F 16 | 13 39 10 | 26°37'11 | 9♋20 | 10°20 | 29°56 | 8°30 | 4°12 | 9°36 | 29°53 | 9° 0 | 19°31 | 4°50 | 5°23 | 0°40 | 20°16 | F 16 |
| S 17 | 13 43 7 | 27°35'41 | 21°17 | 12°14 | 1♊ 8 | 9° 3 | 4°10 | 9°32 | 29°54 | 9° 0 | 19°32 | 4°50 | 5°20 | 0°46 | 20°17 | S 17 |
| S 18 | 13 47 3 | 28°34'08 | 3♌10 | 14° 4 | 2°20 | 9°35 | 4° 8 | 9°27 | 29°55 | 9° 0 | 19°33 | 4°R50 | 5°17 | 0°53 | 20°18 | S 18 |
| M19 | 13 51 0 | 29°32'33 | 15° 5 | 15°52 | 3°31 | 10° 8 | 4° 6 | 9°23 | 29°55 | 8°59 | 19°34 | 4°50 | 5°14 | 1° 0 | 20°18 | M19 |
| T 20 | 13 54 56 | 0♉30'56 | 27° 5 | 17°36 | 4°43 | 10°40 | 4° 4 | 9°19 | 29°56 | 8°59 | 19°35 | 4°50 | 5°11 | 1° 6 | 20°19 | T 20 |
| W21 | 13 58 53 | 1°29'17 | 9♍15 | 19°16 | 5°54 | 11°13 | 4° 2 | 9°14 | 29°57 | 8°59 | 19°36 | 4°49 | 5° 7 | 1°13 | 20°19 | W21 |
| T 22 | 14 2 49 | 2°27'36 | 21°38 | 20°52 | 7° 5 | 11°46 | 4° 1 | 9°10 | 29°57 | 8°58 | 19°37 | 4°49 | 5° 4 | 1°20 | 20°20 | T 22 |
| F 23 | 14 6 46 | 3°25'52 | 4♎17 | 22°25 | 8°16 | 12°19 | 3°59 | 9° 5 | 29°58 | 8°58 | 19°38 | 4°49 | 5° 1 | 1°27 | 20°20 | F 23 |
| S 24 | 14 10 43 | 4°24'07 | 17°14 | 23°53 | 9°27 | 12°52 | 3°58 | 9° 1 | 29°58 | 8°58 | 19°39 | 4°D48 | 4°58 | 1°33 | 20°20 | S 24 |
| S 25 | 14 14 39 | 5°22'20 | 0♏30 | 25°17 | 10°39 | 13°25 | 3°57 | 8°56 | 29°59 | 8°57 | 19°40 | 4°R48 | 4°55 | 1°40 | 20°20 | S 25 |
| M26 | 14 18 36 | 6°20'31 | 14° 2 | 26°37 | 11°49 | 13°58 | 3°56 | 8°52 | 29°59 | 8°57 | 19°41 | 4°48 | 4°52 | 1°47 | 20°R20 | M26 |
| T 27 | 14 22 32 | 7°18'41 | 27°51 | 27°53 | 13° 0 | 14°31 | 3°56 | 8°47 | 29°59 | 8°56 | 19°43 | 4°48 | 4°48 | 1°54 | 20°20 | T 27 |
| W28 | 14 26 29 | 8°16'49 | 11♐52 | 29° 4 | 14°11 | 15° 4 | 3°55 | 8°43 | 29°59 | 8°55 | 19°44 | 4°48 | 4°45 | 2° 0 | 20°20 | W28 |
| T 29 | 14 30 25 | 9°14'55 | 26° 2 | 0♊10 | 15°22 | 15°37 | 3°55 | 8°38 | 0♒ 0 | 8°55 | 19°45 | 4°48 | 4°42 | 2° 7 | 20°20 | T 29 |
| F 30 | 14 34 22 | 10♉13'00 | 10♏18 | 1♊12 | 16♊32 | 16♋11 | 3°D55 | 8♏34 | 0♒ 0 | 8♏54 | 19♊46 | 4♏47 | 4♏39 | 2♌14 | 20♏20 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n43 | 19s18 | 3n25 | 2n39 | 1s13 | 15n47 | 0n23 | 25n27 | 1n59 | 10n57 | 1n25 | 12s32 | 2n38 | 20s48 | 0s32 | 22s15 | 0n56 | 15n38 | 7s26 | 13s11 | 13s36 | 15n24 | 15s18 | 6n46 |
| F 2 | 5 7 | 19 12 | 4 17 | 3 35 | 1 4 | 16 12 | 0 26 | 25 27 | 1 58 | 10 59 | 1 25 | 12 31 | 2 38 | 20 48 | 0 32 | 22 15 | 0 56 | 15 38 | 7 26 | 13 12 | 13 35 | 15 23 | 15 17 | 6 47 |
| S 3 | 5 29 | 17 55 | 4 53 | 4 31 | 0 56 | 16 37 | 0 29 | 25 26 | 1 57 | 11 0 | 1 24 | 12 30 | 2 38 | 20 47 | 0 32 | 22 15 | 0 56 | 15 39 | 7 26 | 13 12 | 13 34 | 15 21 | 15 16 | 6 47 |
| S 4 | 5 52 | 15 32 | 5 13 | 5 27 | 0 46 | 17 1 | 0 32 | 25 25 | 1 57 | 11 2 | 1 24 | 12 28 | 2 38 | 20 47 | 0 32 | 22 15 | 0 56 | 15 39 | 7 26 | 13 12 | 13 33 | 15 20 | 15 15 | 6 48 |
| M 5 | 6 15 | 12 11 | 5 13 | 6 24 | 0 37 | 17 25 | 0 35 | 25 24 | 1 56 | 11 3 | 1 24 | 12 27 | 2 38 | 20 47 | 0 32 | 22 15 | 0 56 | 15 39 | 7 26 | 13 11 | 13 32 | 15 18 | 15 15 | 6 49 |
| T 6 | 6 38 | 8 7 | 4 53 | 7 21 | 0 27 | 17 48 | 0 38 | 25 22 | 1 56 | 11 5 | 1 24 | 12 26 | 2 38 | 20 46 | 0 32 | 22 15 | 0 56 | 15 39 | 7 25 | 13 10 | 13 31 | 15 17 | 15 14 | 6 49 |
| W 7 | 7 0 | 3 35 | 4 15 | 8 18 | 0 17 | 18 11 | 0 41 | 25 21 | 1 55 | 11 6 | 1 24 | 12 24 | 2 38 | 20 46 | 0 32 | 22 15 | 0 56 | 15 40 | 7 25 | 13 10 | 13 30 | 15 15 | 15 13 | 6 50 |
| T 8 | 7 23 | 1n 7 | 3 22 | 9 15 | 0 6 | 18 34 | 0 44 | 25 19 | 1 55 | 11 8 | 1 24 | 12 23 | 2 38 | 20 46 | 0 32 | 22 15 | 0 56 | 15 40 | 7 25 | 13 9 | 13 29 | 15 14 | 15 12 | 6 50 |
| F 9 | 7 45 | 5 43 | 2 17 | 10 11 | 0n 5 | 18 56 | 0 47 | 25 18 | 1 54 | 11 9 | 1 24 | 12 22 | 2 38 | 20 46 | 0 32 | 22 15 | 0 56 | 15 40 | 7 25 | 13 8 | 13 28 | 15 12 | 15 11 | 6 51 |
| S 10 | 8 7 | 9 56 | 1 5 | 11 7 | 0 16 | 19 17 | 0 50 | 25 16 | 1 54 | 11 10 | 1 23 | 12 20 | 2 39 | 20 46 | 0 32 | 22 15 | 0 56 | 15 40 | 7 25 | 13 8 | 13 27 | 15 11 | 15 11 | 6 51 |
| S 11 | 8 29 | 13 32 | 0s 9 | 12 1 | 0 27 | 19 38 | 0 53 | 25 14 | 1 53 | 11 11 | 1 23 | 12 19 | 2 39 | 20 45 | 0 32 | 22 15 | 0 56 | 15 41 | 7 24 | 13 8 | 13 26 | 15 9 | 15 10 | 6 52 |
| M12 | 8 51 | 16 22 | 1 21 | 12 55 | 0 38 | 19 59 | 0 55 | 25 12 | 1 52 | 11 12 | 1 23 | 12 18 | 2 39 | 20 45 | 0 32 | 22 15 | 0 56 | 15 41 | 7 24 | 13 8 | 13 25 | 15 8 | 15 9 | 6 53 |
| T 13 | 9 13 | 18 17 | 2 27 | 13 47 | 0 49 | 20 19 | 0 58 | 25 10 | 1 52 | 11 13 | 1 23 | 12 16 | 2 39 | 20 45 | 0 32 | 22 15 | 0 56 | 15 41 | 7 24 | 13 8 | 13 24 | 15 7 | 15 8 | 6 53 |
| W14 | 9 34 | 19 15 | 3 25 | 14 37 | 1 0 | 20 39 | 1 1 | 25 8 | 1 51 | 11 14 | 1 23 | 12 15 | 2 39 | 20 45 | 0 32 | 22 15 | 0 56 | 15 41 | 7 24 | 13 9 | 13 23 | 15 5 | 15 8 | 6 54 |
| T 15 | 9 56 | 19 16 | 4 11 | 15 26 | 1 10 | 20 58 | 1 4 | 25 5 | 1 51 | 11 15 | 1 23 | 12 13 | 2 39 | 20 45 | 0 32 | 22 15 | 0 56 | 15 42 | 7 24 | 13 9 | 13 22 | 15 4 | 15 7 | 6 54 |
| F 16 | 10 17 | 18 24 | 4 46 | 16 13 | 1 21 | 21 16 | 1 7 | 25 3 | 1 50 | 11 16 | 1 22 | 12 12 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 42 | 7 24 | 13 9 | 13 20 | 15 2 | 15 6 | 6 55 |
| S 17 | 10 38 | 16 43 | 5 8 | 16 58 | 1 31 | 21 34 | 1 10 | 25 0 | 1 50 | 11 17 | 1 22 | 12 11 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 42 | 7 23 | 13 9 | 13 19 | 15 1 | 15 6 | 6 56 |
| S 18 | 10 59 | 14 21 | 5 17 | 17 41 | 1 40 | 21 51 | 1 13 | 24 57 | 1 49 | 11 17 | 1 22 | 12 9 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 42 | 7 23 | 13 9 | 13 18 | 14 59 | 15 5 | 6 56 |
| M19 | 11 20 | 11 22 | 5 12 | 18 21 | 1 49 | 22 8 | 1 16 | 24 54 | 1 49 | 11 18 | 1 22 | 12 8 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 43 | 7 23 | 13 9 | 13 17 | 14 58 | 15 4 | 6 57 |
| T 20 | 11 40 | 7 54 | 4 53 | 18 59 | 1 57 | 22 24 | 1 18 | 24 51 | 1 48 | 11 18 | 1 22 | 12 6 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 43 | 7 23 | 13 9 | 13 16 | 14 56 | 15 4 | 6 57 |
| W21 | 12 1 | 4 5 | 4 22 | 19 35 | 2 5 | 22 40 | 1 21 | 24 48 | 1 48 | 11 19 | 1 22 | 12 5 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 43 | 7 23 | 13 9 | 13 15 | 14 55 | 15 3 | 6 58 |
| T 22 | 12 21 | 0s 0 | 3 37 | 20 8 | 2 12 | 22 54 | 1 24 | 24 44 | 1 47 | 11 19 | 1 21 | 12 4 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 43 | 7 23 | 13 9 | 13 14 | 14 53 | 15 2 | 6 58 |
| F 23 | 12 41 | 4 10 | 2 41 | 20 38 | 2 19 | 23 9 | 1 26 | 24 41 | 1 47 | 11 20 | 1 21 | 12 2 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 43 | 7 22 | 13 9 | 13 13 | 14 52 | 15 2 | 6 59 |
| S 24 | 13 1 | 8 15 | 1 36 | 21 6 | 2 24 | 23 23 | 1 29 | 24 37 | 1 46 | 11 20 | 1 21 | 12 1 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 44 | 7 22 | 13 9 | 13 12 | 14 50 | 15 1 | 7 0 |
| S 25 | 13 20 | 12 2 | 0 24 | 21 31 | 2 29 | 23 36 | 1 32 | 24 33 | 1 45 | 11 20 | 1 21 | 11 59 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 44 | 7 22 | 13 9 | 13 11 | 14 49 | 15 1 | 7 0 |
| M26 | 13 39 | 15 16 | 0n51 | 21 54 | 2 32 | 23 48 | 1 34 | 24 29 | 1 45 | 11 20 | 1 21 | 11 58 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 44 | 7 22 | 13 9 | 13 10 | 14 47 | 15 0 | 7 1 |
| T 27 | 13 59 | 17 42 | 2 4 | 22 15 | 2 35 | 24 0 | 1 37 | 24 25 | 1 44 | 11 20 | 1 21 | 11 56 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 44 | 7 22 | 13 9 | 13 9 | 14 46 | 14 59 | 7 1 |
| W28 | 14 17 | 19 5 | 3 11 | 22 33 | 2 37 | 24 11 | 1 39 | 24 21 | 1 44 | 11 20 | 1 20 | 11 55 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 45 | 7 22 | 13 9 | 13 8 | 14 44 | 14 59 | 7 2 |
| T 29 | 14 36 | 19 18 | 4 7 | 22 48 | 2 38 | 24 21 | 1 42 | 24 17 | 1 43 | 11 20 | 1 20 | 11 54 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 45 | 7 21 | 13 9 | 13 7 | 14 43 | 14 58 | 7 2 |
| F 30 | 14n55 | 18s17 | 4n48 | 23n 1 | 2n38 | 24n31 | 1n44 | 24n12 | 1n43 | 11n20 | 1n20 | 11s52 | 2n39 | 20s43 | 0s33 | 22s15 | 0n56 | 15n45 | 7s21 | 13s 8 | 13s 6 | 14n41 | 14s58 | 7n 3 |

Julian Day Number = 2327453.5, Delta T = 36.22 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'53, Lahiri = 19°06'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## MAY 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 38 18 | 11♉11'04 | 24♑35 | 2♊10 | 17♊43 | 16♋44 | 3♍55 | 8°R29 | 0♒ 1 | 8°R54 | 19♊47 | 4°R47 | 4♏36 | 2♌20 | 20°R19 | S 1 |
| S 2 | 14 42 15 | 12° 9'06 | 8♒51 | 3° 2 | 18°53 | 17°18 | 3°56 | 8♏25 | 0° 1 | 8♑53 | 19°48 | 4°D46 | 4°32 | 2°27 | 20♑19 | S 2 |
| M 3 | 14 46 12 | 13° 7'07 | 23° 3 | 3°50 | 20° 4 | 17°51 | 3°56 | 8°20 | 0° 1 | 8°52 | 19°49 | 4♏47 | 4°29 | 2°34 | 20°19 | M 3 |
| T 4 | 14 50 8 | 14° 5'06 | 7♓ 9 | 4°32 | 21°14 | 18°25 | 3°57 | 8°16 | 0°R 1 | 8°51 | 19°51 | 4°47 | 4°26 | 2°41 | 20°18 | T 4 |
| W 5 | 14 54 5 | 15° 3'04 | 21° 5 | 5°10 | 22°24 | 18°58 | 3°58 | 8°11 | 0° 1 | 8°51 | 19°52 | 4°48 | 4°23 | 2°47 | 20°17 | W 5 |
| T 6 | 14 58 1 | 16° 1'01 | 4♈52 | 5°43 | 23°34 | 19°32 | 3°59 | 8° 7 | 0° 1 | 8°50 | 19°53 | 4°49 | 4°20 | 2°54 | 20°17 | T 6 |
| F 7 | 15 1 58 | 16°58'57 | 18°27 | 6°11 | 24°44 | 20° 6 | 4° 0 | 8° 2 | 0° 0 | 8°49 | 19°54 | 4°49 | 4°17 | 3° 1 | 20°16 | F 7 |
| S 8 | 15 5 54 | 17°56'51 | 1♉50 | 6°34 | 25°54 | 20°40 | 4° 1 | 7°58 | 0° 0 | 8°48 | 19°55 | 4°R50 | 4°13 | 3° 7 | 20°15 | S 8 |
| S 9 | 15 9 51 | 18°54'43 | 14°59 | 6°52 | 27° 4 | 21°14 | 4° 3 | 7°53 | 0° 0 | 8°47 | 19°57 | 4°50 | 4°10 | 3°14 | 20°14 | S 9 |
| M10 | 15 13 47 | 19°52'35 | 27°53 | 7° 5 | 28°14 | 21°48 | 4° 5 | 7°49 | 29♑59 | 8°46 | 19°58 | 4°49 | 4° 7 | 3°21 | 20°13 | M10 |
| T 11 | 15 17 44 | 20°50'24 | 10♊33 | 7°13 | 29°23 | 22°22 | 4° 7 | 7°45 | 29°59 | 8°46 | 19°59 | 4°47 | 4° 4 | 3°28 | 20°12 | T 11 |
| W12 | 15 21 41 | 21°48'13 | 22°59 | 7°R16 | 0♋33 | 22°56 | 4° 9 | 7°40 | 29°59 | 8°45 | 20° 0 | 4°45 | 4° 1 | 3°34 | 20°11 | W12 |
| T 13 | 15 25 37 | 22°45'59 | 5♋13 | 7°14 | 1°42 | 23°30 | 4°11 | 7°36 | 29°59 | 8°44 | 20° 2 | 4°42 | 3°58 | 3°41 | 20° 9 | T 13 |
| F 14 | 15 29 34 | 23°43'45 | 17°16 | 7° 8 | 2°51 | 24° 4 | 4°13 | 7°32 | 29°58 | 8°43 | 20° 3 | 4°39 | 3°54 | 3°48 | 20° 8 | F 14 |
| S 15 | 15 33 30 | 24°41'28 | 29°12 | 6°57 | 4° 1 | 24°39 | 4°16 | 7°28 | 29°58 | 8°42 | 20° 4 | 4°37 | 3°51 | 3°55 | 20° 7 | S 15 |
| S 16 | 15 37 27 | 25°39'10 | 11♌ 5 | 6°42 | 5°10 | 25°13 | 4°19 | 7°23 | 29°57 | 8°41 | 20° 6 | 4°35 | 3°48 | 4° 1 | 20° 5 | S 16 |
| M17 | 15 41 23 | 26°36'50 | 22°59 | 6°23 | 6°18 | 25°47 | 4°22 | 7°19 | 29°56 | 8°39 | 20° 7 | 4°D34 | 3°45 | 4° 8 | 20° 4 | M17 |
| T 18 | 15 45 20 | 27°34'29 | 4♍59 | 6° 1 | 7°27 | 26°22 | 4°25 | 7°15 | 29°56 | 8°38 | 20° 8 | 4°35 | 3°42 | 4°15 | 20° 2 | T 18 |
| W19 | 15 49 16 | 28°32'06 | 17° 8 | 5°35 | 8°36 | 26°56 | 4°28 | 7°11 | 29°55 | 8°37 | 20° 9 | 4°36 | 3°38 | 4°21 | 20° 0 | W19 |
| T 20 | 15 53 13 | 29°29'42 | 29°32 | 5° 7 | 9°45 | 27°31 | 4°32 | 7° 7 | 29°54 | 8°36 | 20°11 | 4°37 | 3°35 | 4°28 | 19°59 | T 20 |
| F 21 | 15 57 10 | 0♊27'16 | 12♎14 | 4°36 | 10°53 | 28° 5 | 4°35 | 7° 3 | 29°53 | 8°35 | 20°12 | 4°39 | 3°32 | 4°35 | 19°57 | F 21 |
| S 22 | 16 1 6 | 1°24'49 | 25°18 | 4° 4 | 12° 1 | 28°40 | 4°39 | 6°59 | 29°53 | 8°34 | 20°14 | 4°40 | 3°29 | 4°42 | 19°55 | S 22 |
| S 23 | 16 5 3 | 2°22'21 | 8♏46 | 3°31 | 13° 9 | 29°15 | 4°43 | 6°55 | 29°52 | 8°33 | 20°15 | 4°R40 | 3°26 | 4°48 | 19°53 | S 23 |
| M24 | 16 8 59 | 3°19'51 | 22°36 | 2°57 | 14°17 | 29°49 | 4°47 | 6°51 | 29°51 | 8°31 | 20°16 | 4°39 | 3°23 | 4°55 | 19°51 | M24 |
| T 25 | 16 12 56 | 4°17'21 | 6♐48 | 2°23 | 15°25 | 0♌24 | 4°52 | 6°48 | 29°50 | 8°30 | 20°18 | 4°37 | 3°19 | 5° 2 | 19°49 | T 25 |
| W26 | 16 16 52 | 5°14'49 | 21°16 | 1°50 | 16°33 | 0°59 | 4°56 | 6°44 | 29°49 | 8°29 | 20°19 | 4°33 | 3°16 | 5° 9 | 19°47 | W26 |
| T 27 | 16 20 49 | 6°12'16 | 5♑55 | 1°19 | 17°41 | 1°34 | 5° 1 | 6°40 | 29°48 | 8°28 | 20°20 | 4°29 | 3°13 | 5°15 | 19°45 | T 27 |
| F 28 | 16 24 45 | 7° 9'43 | 20°36 | 0°48 | 18°48 | 2° 9 | 5° 6 | 6°37 | 29°47 | 8°26 | 20°22 | 4°24 | 3°10 | 5°22 | 19°42 | F 28 |
| S 29 | 16 28 42 | 8° 7'09 | 5♒14 | 0°21 | 19°55 | 2°44 | 5°10 | 6°33 | 29°45 | 8°25 | 20°23 | 4°20 | 3° 7 | 5°29 | 19°40 | S 29 |
| S 30 | 16 32 39 | 9° 4'34 | 19°43 | 29♉55 | 21° 2 | 3°19 | 5°16 | 6°30 | 29°44 | 8°24 | 20°25 | 4°17 | 3° 4 | 5°35 | 19°38 | S 30 |
| M31 | 16 36 35 | 10♊ 1'58 | 3♓59 | 29♉33 | 22♋ 9 | 3♌54 | 5♍21 | 6♏26 | 29♑43 | 8♑22 | 20♊26 | 4°D16 | 3♏ 0 | 5♌42 | 19♑35 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n13 | 16s 8 | 5n12 | 23n12 | 2n37 | 24n40 | 1n46 | 24n 7 | 1n42 | 11n20 | 1n20 | 11s51 | 2n39 | 20s43 | 0s33 | 22s15 | 0n56 | 15n45 | 7s21 | 13s 8 | 13s 4 | 14n40 | 14s57 | 7n 4 |
| S 2 | 15 31 | 12 59 | 5 16 | 23 20 | 2 35 | 24 49 | 1 48 | 24 3 | 1 42 | 11 19 | 1 20 | 11 49 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 46 | 7 21 | 13 8 | 13 3 | 14 38 | 14 57 | 7 4 |
| M 3 | 15 48 | 9 7 | 5 1 | 23 27 | 2 32 | 24 57 | 1 51 | 23 58 | 1 41 | 11 19 | 1 19 | 11 48 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 46 | 7 21 | 13 8 | 13 2 | 14 37 | 14 56 | 7 5 |
| T 4 | 16 6 | 4 45 | 4 28 | 23 31 | 2 28 | 25 4 | 1 53 | 23 53 | 1 41 | 11 19 | 1 19 | 11 47 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 46 | 7 21 | 13 8 | 13 1 | 14 35 | 14 56 | 7 5 |
| W 5 | 16 23 | 0 11 | 3 39 | 23 32 | 2 23 | 25 10 | 1 55 | 23 47 | 1 40 | 11 18 | 1 19 | 11 45 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 46 | 7 21 | 13 9 | 13 0 | 14 34 | 14 55 | 7 6 |
| T 6 | 16 40 | 4n22 | 2 38 | 23 32 | 2 17 | 25 16 | 1 57 | 23 42 | 1 40 | 11 18 | 1 19 | 11 44 | 2 39 | 20 43 | 0 33 | 22 15 | 0 56 | 15 47 | 7 20 | 13 9 | 12 59 | 14 32 | 14 55 | 7 6 |
| F 7 | 16 56 | 8 37 | 1 29 | 23 30 | 2 9 | 25 21 | 1 59 | 23 36 | 1 39 | 11 17 | 1 19 | 11 43 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 47 | 7 20 | 13 9 | 12 58 | 14 31 | 14 55 | 7 7 |
| S 8 | 17 13 | 12 23 | 0 17 | 23 26 | 2 1 | 25 26 | 2 1 | 23 31 | 1 39 | 11 16 | 1 19 | 11 41 | 2 39 | 20 44 | 0 33 | 22 15 | 0 56 | 15 47 | 7 20 | 13 9 | 12 57 | 14 29 | 14 54 | 7 8 |
| S 9 | 17 29 | 15 28 | 0s56 | 23 19 | 1 51 | 25 29 | 2 2 | 23 25 | 1 38 | 11 15 | 1 18 | 11 40 | 2 38 | 20 44 | 0 33 | 22 15 | 0 56 | 15 47 | 7 20 | 13 9 | 12 56 | 14 28 | 14 54 | 7 8 |
| M10 | 17 44 | 17 43 | 2 4 | 23 11 | 1 41 | 25 32 | 2 4 | 23 19 | 1 38 | 11 15 | 1 18 | 11 39 | 2 38 | 20 44 | 0 33 | 22 15 | 0 56 | 15 47 | 7 20 | 13 9 | 12 55 | 14 26 | 14 53 | 7 9 |
| T 11 | 18 0 | 19 1 | 3 5 | 23 1 | 1 29 | 25 34 | 2 6 | 23 13 | 1 37 | 11 14 | 1 18 | 11 37 | 2 38 | 20 44 | 0 33 | 22 15 | 0 56 | 15 48 | 7 20 | 13 8 | 12 54 | 14 24 | 14 53 | 7 9 |
| W12 | 18 15 | 19 23 | 3 55 | 22 49 | 1 17 | 25 36 | 2 7 | 23 7 | 1 36 | 11 13 | 1 18 | 11 36 | 2 38 | 20 44 | 0 33 | 22 15 | 0 57 | 15 48 | 7 20 | 13 8 | 12 53 | 14 23 | 14 53 | 7 10 |
| T 13 | 18 30 | 18 49 | 4 34 | 22 36 | 1 3 | 25 37 | 2 9 | 23 0 | 1 36 | 11 12 | 1 18 | 11 35 | 2 38 | 20 44 | 0 33 | 22 15 | 0 57 | 15 48 | 7 19 | 13 7 | 12 52 | 14 21 | 14 52 | 7 10 |
| F 14 | 18 44 | 17 24 | 5 1 | 22 20 | 0 49 | 25 37 | 2 10 | 22 54 | 1 35 | 11 11 | 1 17 | 11 33 | 2 38 | 20 44 | 0 33 | 22 15 | 0 57 | 15 48 | 7 19 | 13 6 | 12 51 | 14 20 | 14 52 | 7 11 |
| S 15 | 18 58 | 15 14 | 5 13 | 22 4 | 0 34 | 25 37 | 2 11 | 22 47 | 1 35 | 11 10 | 1 17 | 11 32 | 2 38 | 20 44 | 0 33 | 22 15 | 0 57 | 15 48 | 7 19 | 13 5 | 12 49 | 14 18 | 14 52 | 7 11 |
| S 16 | 19 12 | 12 27 | 5 13 | 21 45 | 0 18 | 25 35 | 2 13 | 22 41 | 1 34 | 11 8 | 1 17 | 11 31 | 2 38 | 20 45 | 0 34 | 22 15 | 0 57 | 15 49 | 7 19 | 13 4 | 12 48 | 14 17 | 14 51 | 7 12 |
| M17 | 19 26 | 9 10 | 4 59 | 21 26 | 0 1 | 25 33 | 2 14 | 22 34 | 1 34 | 11 7 | 1 17 | 11 30 | 2 38 | 20 45 | 0 34 | 22 15 | 0 57 | 15 49 | 7 19 | 13 4 | 12 47 | 14 15 | 14 51 | 7 12 |
| T 18 | 19 39 | 5 29 | 4 32 | 21 6 | 0s16 | 25 31 | 2 15 | 22 27 | 1 33 | 11 6 | 1 17 | 11 28 | 2 38 | 20 45 | 0 34 | 22 15 | 0 57 | 15 49 | 7 19 | 13 4 | 12 46 | 14 14 | 14 51 | 7 13 |
| W19 | 19 52 | 1 32 | 3 52 | 20 44 | 0 33 | 25 28 | 2 16 | 22 19 | 1 33 | 11 4 | 1 16 | 11 27 | 2 37 | 20 45 | 0 34 | 22 16 | 0 57 | 15 49 | 7 19 | 13 4 | 12 45 | 14 12 | 14 50 | 7 13 |
| T 20 | 20 5 | 2s35 | 3 1 | 20 22 | 0 50 | 25 24 | 2 17 | 22 12 | 1 32 | 11 3 | 1 16 | 11 26 | 2 37 | 20 45 | 0 34 | 22 16 | 0 57 | 15 49 | 7 19 | 13 5 | 12 44 | 14 11 | 14 50 | 7 14 |
| F 21 | 20 17 | 6 41 | 2 0 | 19 59 | 1 8 | 25 19 | 2 18 | 22 5 | 1 32 | 11 1 | 1 16 | 11 25 | 2 37 | 20 45 | 0 34 | 22 16 | 0 57 | 15 50 | 7 19 | 13 6 | 12 43 | 14 9 | 14 50 | 7 14 |
| S 22 | 20 29 | 10 36 | 0 51 | 19 36 | 1 25 | 25 14 | 2 18 | 21 57 | 1 31 | 11 0 | 1 16 | 11 24 | 2 37 | 20 46 | 0 34 | 22 16 | 0 57 | 15 50 | 7 19 | 13 6 | 12 42 | 14 8 | 14 50 | 7 15 |
| S 23 | 20 40 | 14 5 | 0n22 | 19 13 | 1 42 | 25 8 | 2 19 | 21 49 | 1 31 | 10 58 | 1 16 | 11 23 | 2 37 | 20 46 | 0 34 | 22 16 | 0 57 | 15 50 | 7 18 | 13 6 | 12 41 | 14 6 | 14 50 | 7 15 |
| M24 | 20 52 | 16 54 | 1 37 | 18 50 | 1 59 | 25 1 | 2 19 | 21 42 | 1 30 | 10 57 | 1 16 | 11 22 | 2 37 | 20 46 | 0 34 | 22 16 | 0 57 | 15 50 | 7 18 | 13 6 | 12 40 | 14 4 | 14 49 | 7 16 |
| T 25 | 21 2 | 18 45 | 2 47 | 18 28 | 2 15 | 24 54 | 2 20 | 21 34 | 1 30 | 10 55 | 1 15 | 11 20 | 2 37 | 20 46 | 0 34 | 22 16 | 0 57 | 15 50 | 7 18 | 13 5 | 12 39 | 14 3 | 14 49 | 7 16 |
| W26 | 21 13 | 19 25 | 3 48 | 18 6 | 2 31 | 24 46 | 2 20 | 21 26 | 1 29 | 10 53 | 1 15 | 11 19 | 2 36 | 20 47 | 0 34 | 22 16 | 0 57 | 15 51 | 7 18 | 13 4 | 12 38 | 14 1 | 14 49 | 7 17 |
| T 27 | 21 23 | 18 47 | 4 34 | 17 46 | 2 45 | 24 38 | 2 20 | 21 17 | 1 29 | 10 51 | 1 15 | 11 18 | 2 36 | 20 47 | 0 34 | 22 16 | 0 57 | 15 51 | 7 18 | 13 2 | 12 36 | 14 0 | 14 49 | 7 17 |
| F 28 | 21 33 | 16 55 | 5 3 | 17 26 | 2 59 | 24 29 | 2 20 | 21 9 | 1 28 | 10 49 | 1 15 | 11 17 | 2 36 | 20 47 | 0 34 | 22 16 | 0 57 | 15 51 | 7 18 | 13 1 | 12 35 | 13 58 | 14 49 | 7 18 |
| S 29 | 21 42 | 13 57 | 5 12 | 17 8 | 3 11 | 24 19 | 2 20 | 21 0 | 1 28 | 10 47 | 1 15 | 11 16 | 2 36 | 20 47 | 0 34 | 22 16 | 0 57 | 15 51 | 7 18 | 12 59 | 12 34 | 13 57 | 14 49 | 7 18 |
| S 30 | 21 51 | 10 10 | 5 0 | 16 52 | 3 23 | 24 8 | 2 20 | 20 52 | 1 27 | 10 45 | 1 14 | 11 15 | 2 36 | 20 48 | 0 34 | 22 16 | 0 57 | 15 51 | 7 18 | 12 58 | 12 33 | 13 55 | 14 49 | 7 18 |
| M31 | 22n 0 | 5s51 | 4n31 | 16n37 | 3s33 | 23n57 | 2n20 | 20n43 | 1n27 | 10n43 | 1n14 | 11s14 | 2n36 | 20s48 | 0s34 | 22s16 | 0n57 | 15n51 | 7s18 | 12s58 | 12s32 | 13n54 | 14s48 | 7n19 |

Julian Day Number = 2327483.5, Delta T = 36.16 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°59'57, Lahiri = 19°06'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## JUNE 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 40 32 | 10♊59'22 | 17♓58 | 29°R15 | 23♋16 | 4♌29 | 5♍26 | 6°R23 | 29°R42 | 8°R21 | 20♊27 | 4♏16 | 2♏57 | 5♌49 | 19°R33 | T 1 |
| W 2 | 16 44 28 | 11°56'45 | 1♈42 | 29♉ 0 | 24°23 | 5° 4 | 5°32 | 6♏20 | 29♑40 | 8♑19 | 20°29 | 4°17 | 2°54 | 5°56 | 19♑30 | W 2 |
| T 3 | 16 48 25 | 12°54'07 | 15° 9 | 28°49 | 25°29 | 5°39 | 5°37 | 6°17 | 29°39 | 8°18 | 20°30 | 4°18 | 2°51 | 6° 2 | 19°27 | T 3 |
| F 4 | 16 52 21 | 13°51'29 | 28°22 | 28°43 | 26°36 | 6°15 | 5°43 | 6°14 | 29°38 | 8°17 | 20°32 | 4°R20 | 2°48 | 6° 9 | 19°25 | F 4 |
| S 5 | 16 56 18 | 14°48'51 | 11♉22 | 28°D41 | 27°42 | 6°50 | 5°49 | 6°10 | 29°36 | 8°15 | 20°33 | 4°19 | 2°44 | 6°16 | 19°22 | S 5 |
| S 6 | 17 0 14 | 15°46'12 | 24° 9 | 28°43 | 28°48 | 7°25 | 5°55 | 6° 7 | 29°35 | 8°14 | 20°34 | 4°18 | 2°41 | 6°22 | 19°19 | S 6 |
| M 7 | 17 4 11 | 16°43'32 | 6♊45 | 28°50 | 29°54 | 8° 1 | 6° 1 | 6° 5 | 29°33 | 8°12 | 20°36 | 4°14 | 2°38 | 6°29 | 19°17 | M 7 |
| T 8 | 17 8 8 | 17°40'52 | 19°10 | 29° 1 | 0♌59 | 8°36 | 6° 8 | 6° 2 | 29°32 | 8°11 | 20°37 | 4° 8 | 2°35 | 6°36 | 19°14 | T 8 |
| W 9 | 17 12 4 | 18°38'11 | 1♋25 | 29°17 | 2° 5 | 9°12 | 6°14 | 5°59 | 29°30 | 8° 9 | 20°39 | 4° 1 | 2°32 | 6°43 | 19°11 | W 9 |
| T 10 | 17 16 1 | 19°35'29 | 13°32 | 29°37 | 3°10 | 9°47 | 6°21 | 5°56 | 29°28 | 8° 8 | 20°40 | 3°53 | 2°29 | 6°49 | 19° 8 | T 10 |
| F 11 | 17 19 57 | 20°32'47 | 25°32 | 0♊ 2 | 4°15 | 10°23 | 6°28 | 5°54 | 29°27 | 8° 6 | 20°41 | 3°44 | 2°25 | 6°56 | 19° 5 | F 11 |
| S 12 | 17 23 54 | 21°30'04 | 7♌26 | 0°31 | 5°20 | 10°58 | 6°35 | 5°51 | 29°25 | 8° 5 | 20°43 | 3°36 | 2°22 | 7° 3 | 19° 2 | S 12 |
| S 13 | 17 27 50 | 22°27'20 | 19°17 | 1° 5 | 6°24 | 11°34 | 6°42 | 5°49 | 29°23 | 8° 3 | 20°44 | 3°30 | 2°19 | 7°10 | 18°59 | S 13 |
| M14 | 17 31 47 | 23°24'36 | 1♍10 | 1°43 | 7°29 | 12°10 | 6°49 | 5°47 | 29°21 | 8° 2 | 20°46 | 3°25 | 2°16 | 7°16 | 18°56 | M14 |
| T 15 | 17 35 43 | 24°21'50 | 13° 7 | 2°26 | 8°33 | 12°45 | 6°56 | 5°44 | 29°20 | 8° 0 | 20°47 | 3°23 | 2°13 | 7°23 | 18°52 | T 15 |
| W16 | 17 39 40 | 25°19'04 | 25°14 | 3°12 | 9°37 | 13°21 | 7° 4 | 5°42 | 29°18 | 7°58 | 20°49 | 3°D22 | 2°10 | 7°30 | 18°49 | W16 |
| T 17 | 17 43 37 | 26°16'18 | 7♎35 | 4° 3 | 10°40 | 13°57 | 7°11 | 5°40 | 29°16 | 7°57 | 20°50 | 3°22 | 2° 6 | 7°36 | 18°46 | T 17 |
| F 18 | 17 47 33 | 27°13'31 | 20°15 | 4°58 | 11°44 | 14°33 | 7°19 | 5°38 | 29°14 | 7°55 | 20°51 | 3°23 | 2° 3 | 7°43 | 18°43 | F 18 |
| S 19 | 17 51 30 | 28°10'43 | 3♏19 | 5°56 | 12°47 | 15° 9 | 7°27 | 5°36 | 29°12 | 7°54 | 20°53 | 3°R24 | 2° 0 | 7°50 | 18°39 | S 19 |
| S 20 | 17 55 26 | 29° 7'54 | 16°50 | 6°59 | 13°50 | 15°45 | 7°35 | 5°35 | 29°10 | 7°52 | 20°54 | 3°23 | 1°57 | 7°57 | 18°36 | S 20 |
| M21 | 17 59 23 | 0♋ 5'06 | 0♐48 | 8° 6 | 14°52 | 16°21 | 7°43 | 5°33 | 29° 8 | 7°51 | 20°56 | 3°20 | 1°54 | 8° 3 | 18°33 | M21 |
| T 22 | 18 3 19 | 1° 2'17 | 15°13 | 9°16 | 15°55 | 16°57 | 7°51 | 5°31 | 29° 6 | 7°49 | 20°57 | 3°15 | 1°50 | 8°10 | 18°29 | T 22 |
| W23 | 18 7 16 | 1°59'27 | 29°59 | 10°30 | 16°57 | 17°33 | 7°59 | 5°30 | 29° 4 | 7°47 | 20°58 | 3° 8 | 1°47 | 8°17 | 18°26 | W23 |
| T 24 | 18 11 12 | 2°56'38 | 15♑ 0 | 11°48 | 17°58 | 18° 9 | 8° 8 | 5°28 | 29° 2 | 7°46 | 21° 0 | 3° 0 | 1°44 | 8°24 | 18°22 | T 24 |
| F 25 | 18 15 9 | 3°53'48 | 0♒ 6 | 13°10 | 19° 0 | 18°45 | 8°16 | 5°27 | 29° 0 | 7°44 | 21° 1 | 2°51 | 1°41 | 8°30 | 18°19 | F 25 |
| S 26 | 18 19 6 | 4°50'58 | 15° 6 | 14°35 | 20° 1 | 19°21 | 8°25 | 5°26 | 28°58 | 7°42 | 21° 3 | 2°43 | 1°38 | 8°37 | 18°15 | S 26 |
| S 27 | 18 23 2 | 5°48'09 | 29°53 | 16° 4 | 21° 2 | 19°57 | 8°33 | 5°25 | 28°56 | 7°41 | 21° 4 | 2°36 | 1°35 | 8°44 | 18°12 | S 27 |
| M28 | 18 26 59 | 6°45'19 | 14♓20 | 17°36 | 22° 2 | 20°34 | 8°42 | 5°23 | 28°54 | 7°39 | 21° 5 | 2°32 | 1°31 | 8°50 | 18° 8 | M28 |
| T 29 | 18 30 55 | 7°42'30 | 28°25 | 19°12 | 23° 2 | 21°10 | 8°51 | 5°23 | 28°51 | 7°38 | 21° 7 | 2°30 | 1°28 | 8°57 | 18° 5 | T 29 |
| W30 | 18 34 52 | 8♋39'41 | 12♈ 6 | 20♊52 | 24♌ 2 | 21♌46 | 9♍ 0 | 5♏22 | 28♑49 | 7♑36 | 21♊ 8 | 2°D30 | 1♏25 | 9♌ 4 | 18♑ 1 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 8 | 1s18 | 3n46 | 16n25 | 3s42 | 23n46 | 2n20 | 20n34 | 1n26 | 10n41 | 1n14 | 11s14 | 2n35 | 20s48 | 0s34 | 22s16 | 0n57 | 15n52 | 7s18 | 12s58 | 12s31 | 13n52 | 14s48 | 7n19 |
| W 2 | 22 16 | 3n15 | 2 48 | 16 14 | 3 50 | 23 34 | 2 19 | 20 25 | 1 26 | 10 39 | 1 14 | 11 13 | 2 35 | 20 49 | 0 34 | 22 17 | 0 57 | 15 52 | 7 18 | 12 58 | 12 30 | 13 50 | 14 48 | 7 20 |
| T 3 | 22 23 | 7 33 | 1 42 | 16 5 | 3 56 | 23 21 | 2 19 | 20 16 | 1 25 | 10 36 | 1 14 | 11 12 | 2 35 | 20 49 | 0 34 | 22 17 | 0 57 | 15 52 | 7 18 | 12 59 | 12 29 | 13 49 | 14 48 | 7 20 |
| F 4 | 22 30 | 11 25 | 0 32 | 15 59 | 4 1 | 23 8 | 2 18 | 20 7 | 1 25 | 10 34 | 1 14 | 11 11 | 2 35 | 20 49 | 0 34 | 22 17 | 0 57 | 15 52 | 7 17 | 12 59 | 12 28 | 13 47 | 14 48 | 7 20 |
| S 5 | 22 37 | 14 40 | 0s38 | 15 55 | 4 5 | 22 54 | 2 17 | 19 57 | 1 24 | 10 32 | 1 13 | 11 10 | 2 35 | 20 50 | 0 34 | 22 17 | 0 57 | 15 52 | 7 17 | 12 59 | 12 27 | 13 46 | 14 48 | 7 21 |
| S 6 | 22 43 | 17 8 | 1 45 | 15 52 | 4 8 | 22 39 | 2 16 | 19 48 | 1 24 | 10 29 | 1 13 | 11 9 | 2 34 | 20 50 | 0 34 | 22 17 | 0 57 | 15 52 | 7 17 | 12 58 | 12 26 | 13 44 | 14 48 | 7 21 |
| M 7 | 22 49 | 18 44 | 2 46 | 15 52 | 4 10 | 22 25 | 2 15 | 19 38 | 1 23 | 10 27 | 1 13 | 11 9 | 2 34 | 20 50 | 0 34 | 22 17 | 0 57 | 15 53 | 7 17 | 12 57 | 12 25 | 13 43 | 14 48 | 7 22 |
| T 8 | 22 55 | 19 25 | 3 38 | 15 54 | 4 10 | 22 9 | 2 14 | 19 28 | 1 23 | 10 24 | 1 13 | 11 8 | 2 34 | 20 51 | 0 34 | 22 17 | 0 57 | 15 53 | 7 17 | 12 55 | 12 23 | 13 41 | 14 48 | 7 22 |
| W 9 | 23 0 | 19 9 | 4 20 | 15 58 | 4 9 | 21 53 | 2 13 | 19 18 | 1 22 | 10 22 | 1 13 | 11 7 | 2 34 | 20 51 | 0 34 | 22 17 | 0 57 | 15 53 | 7 17 | 12 53 | 12 22 | 13 39 | 14 48 | 7 22 |
| T 10 | 23 4 | 18 1 | 4 48 | 16 4 | 4 7 | 21 37 | 2 11 | 19 8 | 1 22 | 10 19 | 1 13 | 11 7 | 2 34 | 20 51 | 0 34 | 22 17 | 0 57 | 15 53 | 7 17 | 12 50 | 12 21 | 13 38 | 14 48 | 7 23 |
| F 11 | 23 9 | 16 5 | 5 4 | 16 12 | 4 5 | 21 20 | 2 10 | 18 58 | 1 21 | 10 17 | 1 12 | 11 6 | 2 33 | 20 52 | 0 34 | 22 17 | 0 57 | 15 53 | 7 17 | 12 47 | 12 20 | 13 36 | 14 49 | 7 23 |
| S 12 | 23 12 | 13 30 | 5 7 | 16 22 | 4 1 | 21 2 | 2 8 | 18 48 | 1 20 | 10 14 | 1 12 | 11 5 | 2 33 | 20 52 | 0 34 | 22 17 | 0 57 | 15 53 | 7 17 | 12 44 | 12 19 | 13 35 | 14 49 | 7 23 |
| S 13 | 23 16 | 10 23 | 4 56 | 16 33 | 3 56 | 20 44 | 2 6 | 18 38 | 1 20 | 10 11 | 1 12 | 11 5 | 2 33 | 20 52 | 0 34 | 22 18 | 0 57 | 15 53 | 7 17 | 12 42 | 12 18 | 13 33 | 14 49 | 7 24 |
| M14 | 23 19 | 6 50 | 4 32 | 16 46 | 3 51 | 20 26 | 2 4 | 18 27 | 1 19 | 10 8 | 1 12 | 11 4 | 2 33 | 20 53 | 0 34 | 22 18 | 0 57 | 15 54 | 7 17 | 12 41 | 12 17 | 13 31 | 14 49 | 7 24 |
| T 15 | 23 22 | 3 0 | 3 57 | 17 1 | 3 45 | 20 7 | 2 2 | 18 16 | 1 19 | 10 5 | 1 12 | 11 4 | 2 32 | 20 53 | 0 34 | 22 18 | 0 57 | 15 54 | 7 17 | 12 40 | 12 16 | 13 30 | 14 49 | 7 24 |
| W16 | 23 24 | 1s 1 | 3 10 | 17 16 | 3 38 | 19 48 | 2 0 | 18 6 | 1 18 | 10 2 | 1 12 | 11 3 | 2 32 | 20 54 | 0 34 | 22 18 | 0 57 | 15 54 | 7 17 | 12 39 | 12 15 | 13 28 | 14 49 | 7 24 |
| T 17 | 23 26 | 5 4 | 2 14 | 17 33 | 3 30 | 19 29 | 1 58 | 17 55 | 1 18 | 10 0 | 1 11 | 11 3 | 2 32 | 20 54 | 0 34 | 22 18 | 0 57 | 15 54 | 7 17 | 12 40 | 12 14 | 13 27 | 14 49 | 7 25 |
| F 18 | 23 27 | 9 1 | 1 10 | 17 51 | 3 22 | 19 9 | 1 55 | 17 44 | 1 17 | 9 57 | 1 11 | 11 2 | 2 32 | 20 55 | 0 34 | 22 18 | 0 57 | 15 54 | 7 17 | 12 40 | 12 12 | 13 25 | 14 49 | 7 25 |
| S 19 | 23 28 | 12 39 | 0 0 | 18 10 | 3 13 | 18 48 | 1 53 | 17 33 | 1 17 | 9 53 | 1 11 | 11 2 | 2 31 | 20 55 | 0 34 | 22 18 | 0 57 | 15 54 | 7 17 | 12 40 | 12 11 | 13 24 | 14 50 | 7 25 |
| S 20 | 23 29 | 15 45 | 1n11 | 18 30 | 3 3 | 18 27 | 1 50 | 17 22 | 1 16 | 9 50 | 1 11 | 11 2 | 2 31 | 20 55 | 0 35 | 22 18 | 0 57 | 15 54 | 7 17 | 12 40 | 12 10 | 13 22 | 14 50 | 7 25 |
| M21 | 23 29 | 18 3 | 2 21 | 18 51 | 2 53 | 18 6 | 1 47 | 17 10 | 1 16 | 9 47 | 1 11 | 11 1 | 2 31 | 20 56 | 0 35 | 22 18 | 0 57 | 15 54 | 7 17 | 12 39 | 12 9 | 13 20 | 14 50 | 7 26 |
| T 22 | 23 29 | 19 17 | 3 24 | 19 12 | 2 43 | 17 45 | 1 44 | 16 59 | 1 15 | 9 44 | 1 11 | 11 1 | 2 31 | 20 56 | 0 35 | 22 18 | 0 57 | 15 55 | 7 17 | 12 37 | 12 8 | 13 19 | 14 50 | 7 26 |
| W23 | 23 28 | 19 14 | 4 15 | 19 33 | 2 32 | 17 23 | 1 41 | 16 47 | 1 15 | 9 41 | 1 11 | 11 1 | 2 30 | 20 57 | 0 35 | 22 18 | 0 57 | 15 55 | 7 17 | 12 35 | 12 7 | 13 17 | 14 51 | 7 26 |
| T 24 | 23 27 | 17 51 | 4 49 | 19 55 | 2 20 | 17 1 | 1 37 | 16 36 | 1 14 | 9 38 | 1 10 | 11 0 | 2 30 | 20 57 | 0 35 | 22 19 | 0 57 | 15 55 | 7 17 | 12 32 | 12 6 | 13 16 | 14 51 | 7 26 |
| F 25 | 23 25 | 15 13 | 5 4 | 20 17 | 2 9 | 16 39 | 1 34 | 16 24 | 1 14 | 9 34 | 1 10 | 11 0 | 2 30 | 20 58 | 0 35 | 22 19 | 0 57 | 15 55 | 7 17 | 12 29 | 12 5 | 13 14 | 14 51 | 7 26 |
| S 26 | 23 24 | 11 36 | 4 57 | 20 39 | 1 57 | 16 16 | 1 30 | 16 12 | 1 13 | 9 31 | 1 10 | 11 0 | 2 30 | 20 58 | 0 35 | 22 19 | 0 57 | 15 55 | 7 17 | 12 26 | 12 4 | 13 12 | 14 51 | 7 27 |
| S 27 | 23 21 | 7 18 | 4 31 | 21 1 | 1 45 | 15 53 | 1 27 | 16 0 | 1 13 | 9 27 | 1 10 | 11 0 | 2 29 | 20 58 | 0 35 | 22 19 | 0 57 | 15 55 | 7 17 | 12 24 | 12 3 | 13 11 | 14 52 | 7 27 |
| M28 | 23 19 | 2 41 | 3 47 | 21 22 | 1 33 | 15 30 | 1 23 | 15 48 | 1 12 | 9 24 | 1 10 | 11 0 | 2 29 | 20 59 | 0 35 | 22 19 | 0 57 | 15 55 | 7 17 | 12 23 | 12 1 | 13 9 | 14 52 | 7 27 |
| T 29 | 23 15 | 1n59 | 2 51 | 21 43 | 1 20 | 15 6 | 1 19 | 15 36 | 1 12 | 9 21 | 1 10 | 11 0 | 2 29 | 20 59 | 0 35 | 22 19 | 0 57 | 15 55 | 7 17 | 12 22 | 12 0 | 13 7 | 14 52 | 7 27 |
| W30 | 23n12 | 6n25 | 1n47 | 22n 3 | 1s 8 | 14n42 | 1n15 | 15n24 | 1n11 | 9n17 | 1n10 | 11s 0 | 2n29 | 21s 0 | 0s35 | 22s19 | 0n57 | 15n55 | 7s17 | 12s22 | 11s59 | 13n 6 | 14s53 | 7n27 |

Julian Day Number = 2327514.5, Delta T = 36.10 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'01, Lahiri = 19°07'02Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## JULY 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 38 48 | 9♋36'53 | 25♈25 | 22♊34 | 25♌ 2 | 22♌23 | 9♍ 9 | 5°R21 | 28°R47 | 7°R34 | 21♊10 | 2°R30 | 1♏22 | 9♌11 | 17°R58 | T 1 |
| F 2 | 18 42 45 | 10°34'05 | 8♉25 | 24°20 | 26° 1 | 22°59 | 9°19 | 5♏20 | 28♑45 | 7♑33 | 21°11 | 2♏30 | 1°19 | 9°17 | 17♑54 | F 2 |
| S 3 | 18 46 41 | 11°31'17 | 21° 9 | 26° 9 | 26°59 | 23°35 | 9°28 | 5°20 | 28°43 | 7°31 | 21°12 | 2°29 | 1°16 | 9°24 | 17°50 | S 3 |
| S 4 | 18 50 38 | 12°28'30 | 3♊40 | 28° 1 | 27°58 | 24°12 | 9°37 | 5°19 | 28°40 | 7°29 | 21°14 | 2°25 | 1°12 | 9°31 | 17°47 | S 4 |
| M 5 | 18 54 35 | 13°25'43 | 16° 0 | 29°56 | 28°56 | 24°49 | 9°47 | 5°19 | 28°38 | 7°28 | 21°15 | 2°19 | 1° 9 | 9°37 | 17°43 | M 5 |
| T 6 | 18 58 31 | 14°22'56 | 28°12 | 1♋53 | 29°53 | 25°25 | 9°57 | 5°18 | 28°36 | 7°26 | 21°16 | 2°10 | 1° 6 | 9°44 | 17°39 | T 6 |
| W 7 | 19 2 28 | 15°20'10 | 10♋17 | 3°53 | 0♍50 | 26° 2 | 10° 6 | 5°18 | 28°33 | 7°25 | 21°18 | 1°58 | 1° 3 | 9°51 | 17°36 | W 7 |
| T 8 | 19 6 24 | 16°17'24 | 22°16 | 5°55 | 1°47 | 26°38 | 10°16 | 5°D18 | 28°31 | 7°23 | 21°19 | 1°45 | 1° 0 | 9°58 | 17°32 | T 8 |
| F 9 | 19 10 21 | 17°14'38 | 4♌11 | 7°59 | 2°43 | 27°15 | 10°26 | 5°18 | 28°29 | 7°21 | 21°20 | 1°32 | 0°56 | 10° 4 | 17°29 | F 9 |
| S 10 | 19 14 17 | 18°11'53 | 16° 3 | 10° 4 | 3°39 | 27°52 | 10°36 | 5°18 | 28°26 | 7°20 | 21°22 | 1°20 | 0°53 | 10°11 | 17°25 | S 10 |
| S 11 | 19 18 14 | 19° 9'08 | 27°54 | 12°10 | 4°34 | 28°29 | 10°46 | 5°19 | 28°24 | 7°18 | 21°23 | 1° 9 | 0°50 | 10°18 | 17°21 | S 11 |
| M12 | 19 22 10 | 20° 6'23 | 9♍46 | 14°17 | 5°28 | 29° 6 | 10°56 | 5°19 | 28°22 | 7°17 | 21°24 | 1° 0 | 0°47 | 10°25 | 17°18 | M12 |
| T 13 | 19 26 7 | 21° 3'38 | 21°43 | 16°25 | 6°22 | 29°42 | 11° 7 | 5°19 | 28°19 | 7°15 | 21°25 | 0°55 | 0°44 | 10°31 | 17°14 | T 13 |
| W14 | 19 30 4 | 22° 0'53 | 3♎48 | 18°33 | 7°16 | 0♍19 | 11°17 | 5°20 | 28°17 | 7°14 | 21°27 | 0°52 | 0°41 | 10°38 | 17°10 | W14 |
| T 15 | 19 34 0 | 22°58'09 | 16° 7 | 20°42 | 8° 9 | 0°56 | 11°27 | 5°20 | 28°15 | 7°12 | 21°28 | 0°51 | 0°37 | 10°45 | 17° 7 | T 15 |
| F 16 | 19 37 57 | 23°55'25 | 28°43 | 22°49 | 9° 1 | 1°33 | 11°38 | 5°21 | 28°12 | 7°11 | 21°29 | 0°51 | 0°34 | 10°51 | 17° 3 | F 16 |
| S 17 | 19 41 53 | 24°52'41 | 11♏43 | 24°57 | 9°53 | 2°10 | 11°48 | 5°22 | 28°10 | 7° 9 | 21°30 | 0°50 | 0°31 | 10°58 | 17° 0 | S 17 |
| S 18 | 19 45 50 | 25°49'58 | 25° 9 | 27° 4 | 10°44 | 2°47 | 11°59 | 5°23 | 28° 7 | 7° 7 | 21°32 | 0°49 | 0°28 | 11° 5 | 16°56 | S 18 |
| M19 | 19 49 46 | 26°47'15 | 9♐ 5 | 29° 9 | 11°35 | 3°24 | 12°10 | 5°24 | 28° 5 | 7° 6 | 21°33 | 0°45 | 0°25 | 11°12 | 16°52 | M19 |
| T 20 | 19 53 43 | 27°44'33 | 23°30 | 1♌14 | 12°25 | 4° 2 | 12°21 | 5°25 | 28° 3 | 7° 4 | 21°34 | 0°39 | 0°22 | 11°18 | 16°49 | T 20 |
| W21 | 19 57 39 | 28°41'51 | 8♑21 | 3°18 | 13°14 | 4°39 | 12°31 | 5°26 | 28° 0 | 7° 3 | 21°35 | 0°31 | 0°18 | 11°25 | 16°45 | W21 |
| T 22 | 20 1 36 | 29°39'09 | 23°31 | 5°20 | 14° 2 | 5°16 | 12°42 | 5°27 | 27°58 | 7° 2 | 21°36 | 0°20 | 0°15 | 11°32 | 16°42 | T 22 |
| F 23 | 20 5 33 | 0♌36'29 | 8♒50 | 7°21 | 14°50 | 5°53 | 12°53 | 5°29 | 27°55 | 7° 0 | 21°37 | 0°10 | 0°12 | 11°38 | 16°38 | F 23 |
| S 24 | 20 9 29 | 1°33'49 | 24° 6 | 9°20 | 15°36 | 6°31 | 13° 5 | 5°30 | 27°53 | 6°59 | 21°39 | 29♎59 | 0° 9 | 11°45 | 16°35 | S 24 |
| S 25 | 20 13 26 | 2°31'10 | 9♓ 9 | 11°18 | 16°22 | 7° 8 | 13°16 | 5°32 | 27°51 | 6°57 | 21°40 | 29°51 | 0° 6 | 11°52 | 16°31 | S 25 |
| M26 | 20 17 22 | 3°28'32 | 23°49 | 13°14 | 17° 7 | 7°45 | 13°27 | 5°33 | 27°48 | 6°56 | 21°41 | 29°46 | 0° 2 | 11°59 | 16°28 | M26 |
| T 27 | 20 21 19 | 4°25'55 | 8♈ 4 | 15° 9 | 17°52 | 8°23 | 13°38 | 5°35 | 27°46 | 6°54 | 21°42 | 29°43 | 29♎59 | 12° 5 | 16°25 | T 27 |
| W28 | 20 25 15 | 5°23'19 | 21°51 | 17° 2 | 18°35 | 9° 0 | 13°50 | 5°37 | 27°43 | 6°53 | 21°43 | 29°42 | 29°56 | 12°12 | 16°21 | W28 |
| T 29 | 20 29 12 | 6°20'45 | 5♉11 | 18°54 | 19°17 | 9°38 | 14° 1 | 5°39 | 27°41 | 6°52 | 21°44 | 29°42 | 29°53 | 12°19 | 16°18 | T 29 |
| F 30 | 20 33 8 | 7°18'12 | 18° 8 | 20°44 | 19°59 | 10°15 | 14°12 | 5°41 | 27°39 | 6°50 | 21°45 | 29°41 | 29°50 | 12°26 | 16°15 | F 30 |
| S 31 | 20 37 5 | 8♌15'40 | 0♊46 | 22♌32 | 20♍39 | 10♍53 | 14♍24 | 5♏43 | 27♑36 | 6♑49 | 21♊46 | 29♎40 | 29♎47 | 12♌32 | 16♑11 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 8 | 10n26 | 0n38 | 22n21 | 0s55 | 14n18 | 1n10 | 15n12 | 1n11 | 9n13 | 1n10 | 11s 0 | 2n28 | 21s 0 | 0s35 | 22s19 | 0n57 | 15n55 | 7s17 | 12s22 | 11s58 | 13n 4 | 14s53 | 7n27 |
| F 2 | 23 4 | 13 50 | 0s31 | 22 39 | 0 43 | 13 54 | 1 6 | 14 59 | 1 10 | 9 10 | 1 9 | 11 0 | 2 28 | 21 1 | 0 35 | 22 19 | 0 57 | 15 56 | 7 17 | 12 22 | 11 57 | 13 3 | 14 53 | 7 27 |
| S 3 | 22 59 | 16 31 | 1 37 | 22 55 | 0 30 | 13 30 | 1 1 | 14 47 | 1 10 | 9 6 | 1 9 | 11 0 | 2 28 | 21 1 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 12 21 | 11 56 | 13 1 | 14 54 | 7 28 |
| S 4 | 22 54 | 18 21 | 2 37 | 23 10 | 0 18 | 13 5 | 0 56 | 14 34 | 1 9 | 9 3 | 1 9 | 11 0 | 2 28 | 21 2 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 12 20 | 11 55 | 12 59 | 14 54 | 7 28 |
| M 5 | 22 48 | 19 17 | 3 29 | 23 23 | 0 6 | 12 40 | 0 51 | 14 21 | 1 9 | 8 59 | 1 9 | 11 0 | 2 27 | 21 2 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 12 18 | 11 54 | 12 58 | 14 54 | 7 28 |
| T 6 | 22 42 | 19 18 | 4 10 | 23 33 | 0n 5 | 12 15 | 0 46 | 14 8 | 1 8 | 8 55 | 1 9 | 11 0 | 2 27 | 21 3 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 12 15 | 11 53 | 12 56 | 14 55 | 7 28 |
| W 7 | 22 36 | 18 26 | 4 40 | 23 42 | 0 17 | 11 50 | 0 41 | 13 55 | 1 8 | 8 51 | 1 9 | 11 0 | 2 27 | 21 3 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 12 11 | 11 52 | 12 55 | 14 55 | 7 28 |
| T 8 | 22 29 | 16 45 | 4 57 | 23 48 | 0 27 | 11 25 | 0 36 | 13 42 | 1 7 | 8 47 | 1 9 | 11 1 | 2 27 | 21 4 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 12 6 | 11 50 | 12 53 | 14 56 | 7 28 |
| F 9 | 22 22 | 14 23 | 5 0 | 23 52 | 0 38 | 10 59 | 0 30 | 13 29 | 1 7 | 8 44 | 1 9 | 11 1 | 2 26 | 21 4 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 12 2 | 11 49 | 12 51 | 14 56 | 7 28 |
| S 10 | 22 15 | 11 25 | 4 51 | 23 53 | 0 47 | 10 34 | 0 24 | 13 16 | 1 6 | 8 40 | 1 8 | 11 1 | 2 26 | 21 5 | 0 35 | 22 20 | 0 57 | 15 56 | 7 17 | 11 57 | 11 48 | 12 50 | 14 56 | 7 28 |
| S 11 | 22 7 | 8 1 | 4 29 | 23 52 | 0 56 | 10 8 | 0 18 | 13 3 | 1 6 | 8 36 | 1 8 | 11 1 | 2 26 | 21 5 | 0 35 | 22 20 | 0 56 | 15 56 | 7 17 | 11 54 | 11 47 | 12 48 | 14 57 | 7 28 |
| M12 | 21 58 | 4 17 | 3 55 | 23 47 | 1 5 | 9 43 | 0 12 | 12 50 | 1 5 | 8 32 | 1 8 | 11 2 | 2 25 | 21 6 | 0 35 | 22 20 | 0 56 | 15 56 | 7 17 | 11 51 | 11 46 | 12 46 | 14 57 | 7 28 |
| T 13 | 21 50 | 0 22 | 3 11 | 23 40 | 1 12 | 9 17 | 0 6 | 12 36 | 1 5 | 8 28 | 1 8 | 11 2 | 2 25 | 21 6 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 49 | 11 45 | 12 45 | 14 58 | 7 28 |
| W14 | 21 41 | 3s37 | 2 18 | 23 30 | 1 19 | 8 51 | 0s 0 | 12 23 | 1 4 | 8 24 | 1 8 | 11 3 | 2 25 | 21 7 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 48 | 11 44 | 12 43 | 14 58 | 7 28 |
| T 15 | 21 31 | 7 32 | 1 17 | 23 18 | 1 26 | 8 25 | 0 7 | 12 9 | 1 4 | 8 20 | 1 8 | 11 3 | 2 25 | 21 7 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 47 | 11 43 | 12 42 | 14 59 | 7 28 |
| F 16 | 21 22 | 11 13 | 0 11 | 23 2 | 1 31 | 7 59 | 0 14 | 11 55 | 1 3 | 8 16 | 1 8 | 11 4 | 2 24 | 21 8 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 47 | 11 42 | 12 40 | 14 59 | 7 28 |
| S 17 | 21 11 | 14 28 | 0n57 | 22 45 | 1 36 | 7 34 | 0 21 | 11 42 | 1 3 | 8 11 | 1 8 | 11 4 | 2 24 | 21 8 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 47 | 11 40 | 12 38 | 15 0 | 7 28 |
| S 18 | 21 1 | 17 4 | 2 5 | 22 24 | 1 39 | 7 8 | 0 28 | 11 28 | 1 2 | 8 7 | 1 8 | 11 5 | 2 24 | 21 9 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 47 | 11 39 | 12 37 | 15 0 | 7 28 |
| M19 | 20 50 | 18 46 | 3 7 | 22 2 | 1 42 | 6 42 | 0 35 | 11 14 | 1 1 | 8 3 | 1 8 | 11 5 | 2 24 | 21 9 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 45 | 11 38 | 12 35 | 15 1 | 7 28 |
| T 20 | 20 39 | 19 19 | 4 0 | 21 37 | 1 45 | 6 16 | 0 42 | 11 0 | 1 1 | 7 59 | 1 7 | 11 6 | 2 23 | 21 10 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 43 | 11 37 | 12 33 | 15 1 | 7 27 |
| W21 | 20 27 | 18 35 | 4 38 | 21 11 | 1 46 | 5 50 | 0 50 | 10 46 | 1 0 | 7 55 | 1 7 | 11 6 | 2 23 | 21 10 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 40 | 11 36 | 12 32 | 15 2 | 7 27 |
| T 22 | 20 16 | 16 32 | 4 58 | 20 42 | 1 47 | 5 25 | 0 57 | 10 32 | 1 0 | 7 50 | 1 7 | 11 7 | 2 23 | 21 11 | 0 35 | 22 21 | 0 56 | 15 56 | 7 17 | 11 37 | 11 35 | 12 30 | 15 2 | 7 27 |
| F 23 | 20 3 | 13 18 | 4 57 | 20 12 | 1 47 | 4 59 | 1 5 | 10 17 | 0 59 | 7 46 | 1 7 | 11 8 | 2 23 | 21 11 | 0 35 | 22 22 | 0 56 | 15 56 | 7 17 | 11 33 | 11 34 | 12 28 | 15 3 | 7 27 |
| S 24 | 19 51 | 9 11 | 4 35 | 19 40 | 1 47 | 4 33 | 1 13 | 10 3 | 0 59 | 7 42 | 1 7 | 11 9 | 2 22 | 21 12 | 0 35 | 22 22 | 0 56 | 15 57 | 7 17 | 11 29 | 11 33 | 12 27 | 15 3 | 7 27 |
| S 25 | 19 38 | 4 33 | 3 53 | 19 7 | 1 46 | 4 8 | 1 22 | 9 49 | 0 58 | 7 37 | 1 7 | 11 9 | 2 22 | 21 12 | 0 35 | 22 22 | 0 56 | 15 57 | 7 17 | 11 26 | 11 31 | 12 25 | 15 4 | 7 27 |
| M26 | 19 25 | 0n15 | 2 57 | 18 32 | 1 44 | 3 43 | 1 30 | 9 34 | 0 58 | 7 33 | 1 7 | 11 10 | 2 22 | 21 13 | 0 35 | 22 22 | 0 56 | 15 57 | 7 17 | 11 24 | 11 30 | 12 23 | 15 4 | 7 27 |
| T 27 | 19 11 | 4 55 | 1 52 | 17 57 | 1 42 | 3 18 | 1 38 | 9 20 | 0 57 | 7 28 | 1 7 | 11 11 | 2 21 | 21 13 | 0 35 | 22 22 | 0 56 | 15 57 | 7 18 | 11 23 | 11 29 | 12 22 | 15 5 | 7 26 |
| W28 | 18 57 | 9 10 | 0 41 | 17 20 | 1 39 | 2 53 | 1 47 | 9 5 | 0 57 | 7 24 | 1 7 | 11 12 | 2 21 | 21 13 | 0 35 | 22 22 | 0 56 | 15 57 | 7 18 | 11 23 | 11 28 | 12 20 | 15 6 | 7 26 |
| T 29 | 18 43 | 12 49 | 0s29 | 16 42 | 1 36 | 2 28 | 1 56 | 8 50 | 0 56 | 7 19 | 1 7 | 11 13 | 2 21 | 21 14 | 0 35 | 22 22 | 0 56 | 15 57 | 7 18 | 11 23 | 11 27 | 12 18 | 15 6 | 7 26 |
| F 30 | 18 29 | 15 43 | 1 36 | 16 4 | 1 32 | 2 4 | 2 5 | 8 36 | 0 56 | 7 15 | 1 7 | 11 14 | 2 21 | 21 14 | 0 35 | 22 22 | 0 56 | 15 57 | 7 18 | 11 23 | 11 26 | 12 17 | 15 7 | 7 26 |
| S 31 | 18n14 | 17n48 | 2s36 | 15n24 | 1n28 | 1n39 | 2s14 | 8n21 | 0n55 | 7n10 | 1n 7 | 11s15 | 2n20 | 21s15 | 0s35 | 22s22 | 0n56 | 15n57 | 7s18 | 11s22 | 11s25 | 12n15 | 15s 7 | 7n26 |

Julian Day Number = 2327544.5, Delta T = 36.05 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'05, Lahiri = 19°07'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## AUGUST 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 41 2 | 9♌13'09 | 13♊ 8 | 24♌19 | 21♍18 | 11♍30 | 14♍36 | 5♏45 | 27°R34 | 6°R48 | 21♊47 | 29°R36 | 29♎43 | 12♌39 | 16°R 8 | S 1 |
| M 2 | 20 44 58 | 10°10'40 | 25°19 | 26° 4 | 21°56 | 12° 8 | 14°47 | 5°48 | 27♑32 | 6♑46 | 21°48 | 29♎29 | 29°40 | 12°46 | 16♑ 5 | M 2 |
| T 3 | 20 48 55 | 11° 8'12 | 7♋22 | 27°48 | 22°33 | 12°46 | 14°59 | 5°50 | 27°29 | 6°45 | 21°49 | 29°20 | 29°37 | 12°52 | 16° 2 | T 3 |
| W 4 | 20 52 51 | 12° 5'45 | 19°19 | 29°30 | 23° 9 | 13°24 | 15°11 | 5°52 | 27°27 | 6°44 | 21°50 | 29° 8 | 29°34 | 12°59 | 15°59 | W 4 |
| T 5 | 20 56 48 | 13° 3'19 | 1♌13 | 1♍11 | 23°44 | 14° 1 | 15°23 | 5°55 | 27°25 | 6°43 | 21°51 | 28°55 | 29°31 | 13° 6 | 15°56 | T 5 |
| F 6 | 21 0 44 | 14° 0'55 | 13° 5 | 2°50 | 24°17 | 14°39 | 15°34 | 5°58 | 27°22 | 6°41 | 21°52 | 28°42 | 29°27 | 13°13 | 15°53 | F 6 |
| S 7 | 21 4 41 | 14°58'32 | 24°57 | 4°27 | 24°49 | 15°17 | 15°46 | 6° 0 | 27°20 | 6°40 | 21°53 | 28°29 | 29°24 | 13°19 | 15°50 | S 7 |
| S 8 | 21 8 37 | 15°56'10 | 6♍49 | 6° 3 | 25°20 | 15°55 | 15°58 | 6° 3 | 27°18 | 6°39 | 21°54 | 28°18 | 29°21 | 13°26 | 15°47 | S 8 |
| M 9 | 21 12 34 | 16°53'49 | 18°45 | 7°38 | 25°49 | 16°33 | 16°10 | 6° 6 | 27°16 | 6°38 | 21°55 | 28° 9 | 29°18 | 13°33 | 15°44 | M 9 |
| T 10 | 21 16 31 | 17°51'29 | 0♎46 | 9°10 | 26°16 | 17°11 | 16°22 | 6° 9 | 27°14 | 6°37 | 21°56 | 28° 3 | 29°15 | 13°39 | 15°41 | T 10 |
| W11 | 21 20 27 | 18°49'10 | 12°55 | 10°42 | 26°42 | 17°49 | 16°35 | 6°12 | 27°11 | 6°36 | 21°57 | 28° 0 | 29°12 | 13°46 | 15°38 | W11 |
| T 12 | 21 24 24 | 19°46'53 | 25°15 | 12°12 | 27° 7 | 18°27 | 16°47 | 6°16 | 27° 9 | 6°35 | 21°57 | 27°D59 | 29° 8 | 13°53 | 15°36 | T 12 |
| F 13 | 21 28 20 | 20°44'36 | 7♏52 | 13°40 | 27°30 | 19° 5 | 16°59 | 6°19 | 27° 7 | 6°33 | 21°58 | 28° 0 | 29° 5 | 14° 0 | 15°33 | F 13 |
| S 14 | 21 32 17 | 21°42'21 | 20°48 | 15° 7 | 27°51 | 19°43 | 17°11 | 6°22 | 27° 5 | 6°32 | 21°59 | 28°R 0 | 29° 2 | 14° 6 | 15°30 | S 14 |
| S 15 | 21 36 13 | 22°40'07 | 4♐ 9 | 16°32 | 28°10 | 20°22 | 17°24 | 6°26 | 27° 3 | 6°31 | 22° 0 | 27°59 | 28°59 | 14°13 | 15°28 | S 15 |
| M16 | 21 40 10 | 23°37'53 | 17°57 | 17°56 | 28°27 | 21° 0 | 17°36 | 6°29 | 27° 1 | 6°30 | 22° 1 | 27°57 | 28°56 | 14°20 | 15°25 | M16 |
| T 17 | 21 44 6 | 24°35'42 | 2♑12 | 19°17 | 28°42 | 21°38 | 17°48 | 6°33 | 26°59 | 6°30 | 22° 1 | 27°52 | 28°53 | 14°26 | 15°23 | T 17 |
| W18 | 21 48 3 | 25°33'31 | 16°54 | 20°38 | 28°56 | 22°16 | 18° 1 | 6°37 | 26°57 | 6°29 | 22° 2 | 27°46 | 28°49 | 14°33 | 15°20 | W18 |
| T 19 | 21 52 0 | 26°31'21 | 1♒57 | 21°56 | 29° 7 | 22°55 | 18°13 | 6°40 | 26°55 | 6°28 | 22° 3 | 27°37 | 28°46 | 14°40 | 15°18 | T 19 |
| F 20 | 21 55 56 | 27°29'13 | 17°13 | 23°13 | 29°16 | 23°33 | 18°26 | 6°44 | 26°53 | 6°27 | 22° 4 | 27°28 | 28°43 | 14°47 | 15°16 | F 20 |
| S 21 | 21 59 53 | 28°27'07 | 2♓30 | 24°28 | 29°23 | 24°12 | 18°38 | 6°48 | 26°51 | 6°26 | 22° 4 | 27°20 | 28°40 | 14°53 | 15°14 | S 21 |
| S 22 | 22 3 49 | 29°25'01 | 17°37 | 25°41 | 29°28 | 24°50 | 18°51 | 6°52 | 26°49 | 6°25 | 22° 5 | 27°13 | 28°37 | 15° 0 | 15°11 | S 22 |
| M23 | 22 7 46 | 0♍22'58 | 2♈26 | 26°53 | 29°31 | 25°29 | 19° 3 | 6°56 | 26°47 | 6°24 | 22° 6 | 27° 9 | 28°33 | 15° 7 | 15° 9 | M23 |
| T 24 | 22 11 42 | 1°20'56 | 16°50 | 28° 2 | 29°R31 | 26° 7 | 19°16 | 7° 0 | 26°45 | 6°24 | 22° 6 | 27° 6 | 28°30 | 15°13 | 15° 7 | T 24 |
| W25 | 22 15 39 | 2°18'56 | 0♉45 | 29° 9 | 29°29 | 26°46 | 19°28 | 7° 5 | 26°43 | 6°23 | 22° 7 | 27°D 6 | 28°27 | 15°20 | 15° 5 | W25 |
| T 26 | 22 19 35 | 3°16'59 | 14°12 | 0♎14 | 29°25 | 27°25 | 19°41 | 7° 9 | 26°42 | 6°22 | 22° 7 | 27° 7 | 28°24 | 15°27 | 15° 3 | T 26 |
| F 27 | 22 23 32 | 4°15'03 | 27°13 | 1°16 | 29°18 | 28° 3 | 19°54 | 7°13 | 26°40 | 6°21 | 22° 8 | 27° 8 | 28°21 | 15°34 | 15° 2 | F 27 |
| S 28 | 22 27 29 | 5°13'09 | 9♊52 | 2°16 | 29° 9 | 28°42 | 20° 6 | 7°18 | 26°38 | 6°21 | 22° 8 | 27°R 8 | 28°18 | 15°40 | 15° 0 | S 28 |
| S 29 | 22 31 25 | 6°11'17 | 22°13 | 3°14 | 28°58 | 29°21 | 20°19 | 7°22 | 26°36 | 6°20 | 22° 9 | 27° 6 | 28°14 | 15°47 | 14°58 | S 29 |
| M30 | 22 35 22 | 7° 9'27 | 4♋21 | 4° 9 | 28°44 | 29°59 | 20°32 | 7°27 | 26°35 | 6°20 | 22° 9 | 27° 3 | 28°11 | 15°54 | 14°57 | M30 |
| T 31 | 22 39 18 | 8♍ 7'39 | 16♋20 | 5♎ 0 | 28♍28 | 0♎39 | 20♍45 | 7♏32 | 26♑33 | 6♑19 | 22♊10 | 26♎57 | 28♎ 8 | 16♌ 1 | 14♑55 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17n59 | 18n58 | 3s28 | 14n45 | 1n23 | 1n15 | 2s24 | 8n 6 | 0n55 | 7n 6 | 1n 6 | 11s16 | 2n20 | 21s15 | 0s35 | 22s22 | 0n56 | 15n57 | 7s18 | 11s21 | 11s24 | 12n14 | 15s 8 | 7n25 |
| M 2 | 17 43 | 19 15 | 4 9 | 14 4 | 1 18 | 0 51 | 2 33 | 7 51 | 0 54 | 7 1 | 1 6 | 11 17 | 2 20 | 21 16 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 11 19 | 11 23 | 12 12 | 15 8 | 7 25 |
| T 3 | 17 28 | 18 38 | 4 39 | 13 23 | 1 12 | 0 28 | 2 43 | 7 36 | 0 54 | 6 57 | 1 6 | 11 18 | 2 20 | 21 16 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 11 15 | 11 21 | 12 10 | 15 9 | 7 25 |
| W 4 | 17 12 | 17 12 | 4 56 | 12 42 | 1 7 | 0 5 | 2 53 | 7 21 | 0 53 | 6 52 | 1 6 | 11 19 | 2 19 | 21 17 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 11 11 | 11 20 | 12 9 | 15 10 | 7 25 |
| T 5 | 16 56 | 15 2 | 5 0 | 12 1 | 1 0 | 0s18 | 3 3 | 7 6 | 0 53 | 6 47 | 1 6 | 11 20 | 2 19 | 21 17 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 11 7 | 11 19 | 12 7 | 15 10 | 7 24 |
| F 6 | 16 39 | 12 16 | 4 51 | 11 19 | 0 54 | 0 41 | 3 13 | 6 51 | 0 52 | 6 43 | 1 6 | 11 21 | 2 19 | 21 18 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 11 2 | 11 18 | 12 5 | 15 11 | 7 24 |
| S 7 | 16 22 | 8 59 | 4 30 | 10 37 | 0 47 | 1 3 | 3 23 | 6 36 | 0 51 | 6 38 | 1 6 | 11 22 | 2 19 | 21 18 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 10 57 | 11 17 | 12 4 | 15 12 | 7 24 |
| S 8 | 16 5 | 5 22 | 3 56 | 9 55 | 0 40 | 1 25 | 3 34 | 6 21 | 0 51 | 6 33 | 1 6 | 11 23 | 2 18 | 21 18 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 10 53 | 11 16 | 12 2 | 15 12 | 7 24 |
| M 9 | 15 48 | 1 31 | 3 12 | 9 13 | 0 32 | 1 46 | 3 44 | 6 6 | 0 50 | 6 29 | 1 6 | 11 24 | 2 18 | 21 19 | 0 35 | 22 23 | 0 56 | 15 56 | 7 18 | 10 50 | 11 15 | 12 0 | 15 13 | 7 23 |
| T 10 | 15 30 | 2s26 | 2 19 | 8 31 | 0 25 | 2 7 | 3 55 | 5 50 | 0 50 | 6 24 | 1 6 | 11 26 | 2 18 | 21 19 | 0 35 | 22 23 | 0 56 | 15 56 | 7 19 | 10 48 | 11 14 | 11 59 | 15 13 | 7 23 |
| W11 | 15 13 | 6 20 | 1 19 | 7 50 | 0 17 | 2 27 | 4 6 | 5 35 | 0 49 | 6 19 | 1 6 | 11 27 | 2 18 | 21 20 | 0 35 | 22 23 | 0 56 | 15 56 | 7 19 | 10 47 | 11 12 | 11 57 | 15 14 | 7 23 |
| T 12 | 14 55 | 10 1 | 0 15 | 7 8 | 0 9 | 2 47 | 4 17 | 5 19 | 0 49 | 6 14 | 1 6 | 11 28 | 2 17 | 21 20 | 0 35 | 22 23 | 0 56 | 15 56 | 7 19 | 10 47 | 11 11 | 11 55 | 15 15 | 7 22 |
| F 13 | 14 36 | 13 20 | 0n52 | 6 26 | 0 0 | 3 6 | 4 28 | 5 4 | 0 48 | 6 10 | 1 6 | 11 29 | 2 17 | 21 21 | 0 35 | 22 24 | 0 56 | 15 56 | 7 19 | 10 47 | 11 10 | 11 54 | 15 15 | 7 22 |
| S 14 | 14 18 | 16 5 | 1 58 | 5 45 | 0s 8 | 3 24 | 4 39 | 4 49 | 0 48 | 6 5 | 1 6 | 11 31 | 2 17 | 21 21 | 0 35 | 22 24 | 0 56 | 15 56 | 7 19 | 10 47 | 11 9 | 11 52 | 15 16 | 7 22 |
| S 15 | 13 59 | 18 4 | 3 0 | 5 4 | 0 17 | 3 42 | 4 50 | 4 33 | 0 47 | 6 0 | 1 6 | 11 32 | 2 17 | 21 21 | 0 35 | 22 24 | 0 56 | 15 56 | 7 19 | 10 47 | 11 8 | 11 50 | 15 16 | 7 21 |
| M16 | 13 40 | 19 3 | 3 54 | 4 23 | 0 25 | 4 0 | 5 2 | 4 17 | 0 47 | 5 55 | 1 6 | 11 34 | 2 16 | 21 22 | 0 35 | 22 24 | 0 56 | 15 56 | 7 19 | 10 46 | 11 7 | 11 48 | 15 17 | 7 21 |
| T 17 | 13 21 | 18 53 | 4 34 | 3 43 | 0 34 | 4 16 | 5 13 | 4 2 | 0 46 | 5 50 | 1 6 | 11 35 | 2 16 | 21 22 | 0 35 | 22 24 | 0 56 | 15 56 | 7 19 | 10 44 | 11 6 | 11 47 | 15 18 | 7 21 |
| W18 | 13 1 | 17 28 | 4 59 | 3 3 | 0 43 | 4 32 | 5 24 | 3 46 | 0 46 | 5 45 | 1 6 | 11 36 | 2 16 | 21 23 | 0 35 | 22 24 | 0 55 | 15 56 | 7 19 | 10 42 | 11 4 | 11 45 | 15 18 | 7 20 |
| T 19 | 12 42 | 14 50 | 5 3 | 2 24 | 0 52 | 4 47 | 5 36 | 3 30 | 0 45 | 5 40 | 1 6 | 11 38 | 2 16 | 21 23 | 0 35 | 22 24 | 0 55 | 15 56 | 7 19 | 10 39 | 11 3 | 11 43 | 15 19 | 7 20 |
| F 20 | 12 22 | 11 9 | 4 46 | 1 45 | 1 2 | 5 1 | 5 47 | 3 15 | 0 45 | 5 35 | 1 5 | 11 39 | 2 15 | 21 23 | 0 35 | 22 24 | 0 55 | 15 56 | 7 20 | 10 36 | 11 2 | 11 42 | 15 20 | 7 19 |
| S 21 | 12 2 | 6 43 | 4 9 | 1 7 | 1 11 | 5 14 | 5 58 | 2 59 | 0 44 | 5 30 | 1 5 | 11 41 | 2 15 | 21 24 | 0 35 | 22 24 | 0 55 | 15 56 | 7 20 | 10 33 | 11 1 | 11 40 | 15 20 | 7 19 |
| S 22 | 11 42 | 1 54 | 3 15 | 0 29 | 1 20 | 5 26 | 6 10 | 2 43 | 0 43 | 5 25 | 1 5 | 11 42 | 2 15 | 21 24 | 0 35 | 22 24 | 0 55 | 15 56 | 7 20 | 10 30 | 11 0 | 11 38 | 15 21 | 7 19 |
| M23 | 11 21 | 2n56 | 2 8 | 0s 8 | 1 30 | 5 38 | 6 21 | 2 27 | 0 43 | 5 21 | 1 5 | 11 44 | 2 15 | 21 24 | 0 35 | 22 24 | 0 55 | 15 56 | 7 20 | 10 28 | 10 59 | 11 37 | 15 22 | 7 18 |
| T 24 | 11 1 | 7 28 | 0 55 | 0 44 | 1 39 | 5 48 | 6 32 | 2 12 | 0 42 | 5 16 | 1 5 | 11 45 | 2 15 | 21 25 | 0 35 | 22 24 | 0 55 | 15 56 | 7 20 | 10 28 | 10 58 | 11 35 | 15 22 | 7 18 |
| W25 | 10 40 | 11 27 | 0s20 | 1 19 | 1 48 | 5 57 | 6 43 | 1 56 | 0 42 | 5 11 | 1 5 | 11 47 | 2 14 | 21 25 | 0 35 | 22 24 | 0 55 | 15 55 | 7 20 | 10 27 | 10 57 | 11 33 | 15 23 | 7 17 |
| T 26 | 10 19 | 14 41 | 1 31 | 1 53 | 1 58 | 6 5 | 6 54 | 1 40 | 0 41 | 5 6 | 1 5 | 11 49 | 2 14 | 21 25 | 0 35 | 22 25 | 0 55 | 15 55 | 7 20 | 10 28 | 10 55 | 11 32 | 15 23 | 7 17 |
| F 27 | 9 58 | 17 4 | 2 35 | 2 27 | 2 7 | 6 12 | 7 4 | 1 24 | 0 41 | 5 1 | 1 5 | 11 50 | 2 14 | 21 26 | 0 35 | 22 25 | 0 55 | 15 55 | 7 20 | 10 28 | 10 54 | 11 30 | 15 24 | 7 17 |
| S 28 | 9 37 | 18 31 | 3 29 | 2 59 | 2 16 | 6 18 | 7 14 | 1 8 | 0 40 | 4 56 | 1 5 | 11 52 | 2 14 | 21 26 | 0 35 | 22 25 | 0 55 | 15 55 | 7 20 | 10 28 | 10 53 | 11 28 | 15 25 | 7 16 |
| S 29 | 9 15 | 19 3 | 4 12 | 3 30 | 2 25 | 6 23 | 7 24 | 0 52 | 0 40 | 4 50 | 1 5 | 11 54 | 2 13 | 21 26 | 0 35 | 22 25 | 0 55 | 15 55 | 7 20 | 10 28 | 10 52 | 11 27 | 15 25 | 7 16 |
| M30 | 8 54 | 18 41 | 4 44 | 4 0 | 2 34 | 6 26 | 7 34 | 0 36 | 0 39 | 4 45 | 1 5 | 11 55 | 2 13 | 21 27 | 0 35 | 22 25 | 0 55 | 15 55 | 7 21 | 10 26 | 10 51 | 11 25 | 15 26 | 7 15 |
| T 31 | 8n32 | 17n29 | 5s 2 | 4s29 | 2s43 | 6s28 | 7s43 | 0n20 | 0n39 | 4n40 | 1n 5 | 11s57 | 2n13 | 21s27 | 0s35 | 22s25 | 0n55 | 15n55 | 7s21 | 10s24 | 10s50 | 11n23 | 15s27 | 7n15 |

Julian Day Number = 2327575.5, Delta T = 35.99 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'10, Lahiri = 19°07'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## SEPTEMBER 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 43 15 | 9♍ 5'53 | 28♋13 | 5♎49 | 28°R 9 | 1♎18 | 20♍58 | 7♏36 | 26°R32 | 6°R18 | 22♊10 | 26°R50 | 28♎ 5 | 16♌ 7 | 14°R53 | W 1 |
| T 2 | 22 47 11 | 10° 4'09 | 10♌ 5 | 6°34 | 27♍48 | 1°57 | 21°10 | 7°41 | 26♑30 | 6♑18 | 22°11 | 26♎41 | 28° 2 | 16°14 | 14♑52 | T 2 |
| F 3 | 22 51 8 | 11° 2'26 | 21°57 | 7°16 | 27°26 | 2°36 | 21°23 | 7°46 | 26°29 | 6°17 | 22°11 | 26°32 | 27°59 | 16°21 | 14°51 | F 3 |
| S 4 | 22 55 4 | 12° 0'46 | 3♍51 | 7°54 | 27° 1 | 3°15 | 21°36 | 7°51 | 26°27 | 6°17 | 22°12 | 26°24 | 27°55 | 16°27 | 14°49 | S 4 |
| S 5 | 22 59 1 | 12°59'07 | 15°49 | 8°27 | 26°34 | 3°54 | 21°49 | 7°56 | 26°26 | 6°17 | 22°12 | 26°17 | 27°52 | 16°34 | 14°48 | S 5 |
| M 6 | 23 2 58 | 13°57'31 | 27°52 | 8°57 | 26° 5 | 4°33 | 22° 2 | 8° 1 | 26°24 | 6°16 | 22°12 | 26°11 | 27°49 | 16°41 | 14°47 | M 6 |
| T 7 | 23 6 54 | 14°55'56 | 10♎ 3 | 9°21 | 25°35 | 5°12 | 22°15 | 8° 6 | 26°23 | 6°16 | 22°13 | 26° 8 | 27°46 | 16°48 | 14°46 | T 7 |
| W 8 | 23 10 51 | 15°54'22 | 22°22 | 9°41 | 25° 3 | 5°52 | 22°28 | 8°12 | 26°22 | 6°16 | 22°13 | 26°D 7 | 27°43 | 16°54 | 14°45 | W 8 |
| T 9 | 23 14 47 | 16°52'51 | 4♏53 | 9°55 | 24°29 | 6°31 | 22°41 | 8°17 | 26°20 | 6°15 | 22°13 | 26° 7 | 27°39 | 17° 1 | 14°44 | T 9 |
| F 10 | 23 18 44 | 17°51'21 | 17°37 | 10° 3 | 23°55 | 7°10 | 22°54 | 8°22 | 26°19 | 6°15 | 22°14 | 26° 8 | 27°36 | 17° 8 | 14°43 | F 10 |
| S 11 | 23 22 40 | 18°49'53 | 0♐38 | 10°R 5 | 23°19 | 7°50 | 23° 7 | 8°28 | 26°18 | 6°15 | 22°14 | 26°10 | 27°33 | 17°14 | 14°43 | S 11 |
| S 12 | 23 26 37 | 19°48'27 | 13°58 | 10° 1 | 22°43 | 8°29 | 23°20 | 8°33 | 26°17 | 6°15 | 22°14 | 26°R11 | 27°30 | 17°21 | 14°42 | S 12 |
| M13 | 23 30 33 | 20°47'02 | 27°40 | 9°50 | 22° 7 | 9° 9 | 23°33 | 8°39 | 26°16 | 6°14 | 22°14 | 26°11 | 27°27 | 17°28 | 14°41 | M13 |
| T 14 | 23 34 30 | 21°45'39 | 11♑44 | 9°33 | 21°30 | 9°48 | 23°46 | 8°44 | 26°15 | 6°14 | 22°14 | 26° 9 | 27°24 | 17°35 | 14°41 | T 14 |
| W15 | 23 38 26 | 22°44'18 | 26°10 | 9° 8 | 20°53 | 10°28 | 23°58 | 8°50 | 26°14 | 6°14 | 22°15 | 26° 6 | 27°20 | 17°41 | 14°40 | W15 |
| T 16 | 23 42 23 | 23°42'58 | 10♒55 | 8°36 | 20°16 | 11° 8 | 24°11 | 8°56 | 26°13 | 6°14 | 22°15 | 26° 2 | 27°17 | 17°48 | 14°40 | T 16 |
| F 17 | 23 46 20 | 24°41'40 | 25°52 | 7°57 | 19°39 | 11°47 | 24°24 | 9° 1 | 26°12 | 6°D14 | 22°15 | 25°58 | 27°14 | 17°55 | 14°40 | F 17 |
| S 18 | 23 50 16 | 25°40'24 | 10♓53 | 7°11 | 19° 4 | 12°27 | 24°37 | 9° 7 | 26°11 | 6°14 | 22°15 | 25°53 | 27°11 | 18° 1 | 14°39 | S 18 |
| S 19 | 23 54 13 | 26°39'10 | 25°50 | 6°19 | 18°29 | 13° 7 | 24°50 | 9°13 | 26°10 | 6°14 | 22°15 | 25°50 | 27° 8 | 18° 8 | 14°39 | S 19 |
| M20 | 23 58 9 | 27°37'57 | 10♈33 | 5°21 | 17°55 | 13°46 | 25° 3 | 9°19 | 26° 9 | 6°14 | 22°15 | 25°48 | 27° 4 | 18°15 | 14°D39 | M20 |
| T 21 | 0 2 6 | 28°36'47 | 24°56 | 4°19 | 17°23 | 14°26 | 25°16 | 9°25 | 26° 9 | 6°14 | 22°R15 | 25°D47 | 27° 1 | 18°22 | 14°39 | T 21 |
| W22 | 0 6 2 | 29°35'39 | 8♉55 | 3°14 | 16°53 | 15° 6 | 25°29 | 9°31 | 26° 8 | 6°15 | 22°15 | 25°47 | 26°58 | 18°28 | 14°39 | W22 |
| T 23 | 0 9 59 | 0♎34'33 | 22°27 | 2° 6 | 16°24 | 15°46 | 25°42 | 9°37 | 26° 7 | 6°15 | 22°15 | 25°49 | 26°55 | 18°35 | 14°39 | T 23 |
| F 24 | 0 13 55 | 1°33'30 | 5♊34 | 0°59 | 15°57 | 16°26 | 25°55 | 9°43 | 26° 7 | 6°15 | 22°15 | 25°50 | 26°52 | 18°42 | 14°40 | F 24 |
| S 25 | 0 17 52 | 2°32'28 | 18°18 | 29♍53 | 15°32 | 17° 6 | 26° 8 | 9°49 | 26° 6 | 6°15 | 22°15 | 25°52 | 26°49 | 18°48 | 14°40 | S 25 |
| S 26 | 0 21 49 | 3°31'30 | 0♋43 | 28°50 | 15° 9 | 17°46 | 26°21 | 9°55 | 26° 6 | 6°15 | 22°15 | 25°R52 | 26°45 | 18°55 | 14°40 | S 26 |
| M27 | 0 25 45 | 4°30'33 | 12°52 | 27°52 | 14°48 | 18°27 | 26°34 | 10° 2 | 26° 5 | 6°16 | 22°15 | 25°52 | 26°42 | 19° 2 | 14°41 | M27 |
| T 28 | 0 29 42 | 5°29'39 | 24°51 | 27° 1 | 14°30 | 19° 7 | 26°47 | 10° 8 | 26° 5 | 6°16 | 22°15 | 25°51 | 26°39 | 19° 8 | 14°41 | T 28 |
| W29 | 0 33 38 | 6°28'47 | 6♌44 | 26°19 | 14°14 | 19°47 | 27° 0 | 10°14 | 26° 5 | 6°16 | 22°14 | 25°49 | 26°36 | 19°15 | 14°42 | W29 |
| T 30 | 0 37 35 | 7♎27'57 | 18♌36 | 25♍45 | 14♍ 0 | 20♎27 | 27♍13 | 10♏20 | 26♑ 4 | 6♑17 | 22♊14 | 25♎46 | 26♎33 | 19♌22 | 14♑43 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 8n10 | 15n32 | 5s 7 | 4s56 | 2s52 | 6s28 | 7s52 | 0n 4 | 0n38 | 4n35 | 1n 5 | 11s59 | 2n13 | 21s27 | 0s35 | 22s25 | 0n55 | 15n55 | 7s21 | 10s22 | 10s49 | 11n21 | 15s27 | 7n14 | W 1 |
| T 2 | 7 48 | 12 57 | 4 59 | 5 22 | 3 0 | 6 28 | 8 0 | 0s12 | 0 37 | 4 30 | 1 5 | 12 0 | 2 13 | 21 28 | 0 35 | 22 25 | 0 55 | 15 55 | 7 21 | 10 19 | 10 47 | 11 20 | 15 28 | 7 14 | T 2 |
| F 3 | 7 26 | 9 50 | 4 38 | 5 46 | 3 8 | 6 26 | 8 8 | 0 28 | 0 37 | 4 25 | 1 5 | 12 2 | 2 12 | 21 28 | 0 35 | 22 25 | 0 55 | 15 55 | 7 21 | 10 15 | 10 46 | 11 18 | 15 28 | 7 13 | F 3 |
| S 4 | 7 4 | 6 19 | 4 5 | 6 8 | 3 16 | 6 22 | 8 15 | 0 44 | 0 36 | 4 20 | 1 5 | 12 4 | 2 12 | 21 28 | 0 35 | 22 25 | 0 55 | 15 55 | 7 21 | 10 12 | 10 45 | 11 16 | 15 29 | 7 13 | S 4 |
| S 5 | 6 42 | 2 31 | 3 21 | 6 28 | 3 23 | 6 17 | 8 21 | 1 0 | 0 36 | 4 15 | 1 5 | 12 6 | 2 12 | 21 28 | 0 35 | 22 25 | 0 55 | 15 55 | 7 21 | 10 10 | 10 44 | 11 15 | 15 30 | 7 12 | S 5 |
| M 6 | 6 19 | 1s24 | 2 27 | 6 46 | 3 30 | 6 11 | 8 26 | 1 16 | 0 35 | 4 10 | 1 5 | 12 8 | 2 12 | 21 29 | 0 35 | 22 25 | 0 55 | 15 54 | 7 21 | 10 8 | 10 43 | 11 13 | 15 30 | 7 12 | M 6 |
| T 7 | 5 57 | 5 18 | 1 26 | 7 2 | 3 37 | 6 4 | 8 31 | 1 32 | 0 35 | 4 5 | 1 5 | 12 9 | 2 12 | 21 29 | 0 35 | 22 25 | 0 55 | 15 54 | 7 22 | 10 6 | 10 42 | 11 11 | 15 31 | 7 11 | T 7 |
| W 8 | 5 34 | 9 2 | 0 20 | 7 15 | 3 43 | 5 55 | 8 35 | 1 49 | 0 34 | 4 0 | 1 5 | 12 11 | 2 11 | 21 29 | 0 35 | 22 25 | 0 55 | 15 54 | 7 22 | 10 6 | 10 41 | 11 10 | 15 31 | 7 11 | W 8 |
| T 9 | 5 11 | 12 25 | 0n48 | 7 25 | 3 48 | 5 44 | 8 39 | 2 5 | 0 34 | 3 55 | 1 5 | 12 13 | 2 11 | 21 29 | 0 35 | 22 25 | 0 55 | 15 54 | 7 22 | 10 6 | 10 40 | 11 8 | 15 32 | 7 10 | T 9 |
| F 10 | 4 49 | 15 17 | 1 54 | 7 33 | 3 52 | 5 33 | 8 41 | 2 21 | 0 33 | 3 49 | 1 5 | 12 15 | 2 11 | 21 29 | 0 35 | 22 25 | 0 55 | 15 54 | 7 22 | 10 7 | 10 38 | 11 6 | 15 33 | 7 10 | F 10 |
| S 11 | 4 26 | 17 26 | 2 57 | 7 37 | 3 56 | 5 20 | 8 42 | 2 37 | 0 33 | 3 44 | 1 5 | 12 17 | 2 11 | 21 30 | 0 35 | 22 25 | 0 55 | 15 54 | 7 22 | 10 7 | 10 37 | 11 4 | 15 33 | 7 9 | S 11 |
| S 12 | 4 3 | 18 41 | 3 51 | 7 37 | 3 58 | 5 7 | 8 43 | 2 53 | 0 32 | 3 39 | 1 5 | 12 19 | 2 11 | 21 30 | 0 35 | 22 26 | 0 55 | 15 54 | 7 22 | 10 7 | 10 36 | 11 3 | 15 34 | 7 9 | S 12 |
| M13 | 3 40 | 18 53 | 4 34 | 7 34 | 4 0 | 4 52 | 8 42 | 3 9 | 0 31 | 3 34 | 1 5 | 12 21 | 2 10 | 21 30 | 0 35 | 22 26 | 0 55 | 15 54 | 7 22 | 10 7 | 10 35 | 11 1 | 15 34 | 7 8 | M13 |
| T 14 | 3 16 | 17 57 | 5 2 | 7 27 | 4 0 | 4 36 | 8 41 | 3 25 | 0 31 | 3 29 | 1 5 | 12 23 | 2 10 | 21 30 | 0 35 | 22 26 | 0 54 | 15 54 | 7 22 | 10 7 | 10 34 | 10 59 | 15 35 | 7 8 | T 14 |
| W15 | 2 53 | 15 51 | 5 12 | 7 16 | 3 58 | 4 19 | 8 39 | 3 41 | 0 30 | 3 24 | 1 5 | 12 25 | 2 10 | 21 30 | 0 35 | 22 26 | 0 54 | 15 53 | 7 22 | 10 6 | 10 33 | 10 58 | 15 35 | 7 7 | W15 |
| T 16 | 2 30 | 12 41 | 5 2 | 7 1 | 3 56 | 4 2 | 8 35 | 3 57 | 0 30 | 3 19 | 1 5 | 12 27 | 2 10 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 10 4 | 10 32 | 10 56 | 15 36 | 7 7 | T 16 |
| F 17 | 2 7 | 8 40 | 4 31 | 6 41 | 3 51 | 3 44 | 8 31 | 4 13 | 0 29 | 3 14 | 1 5 | 12 29 | 2 10 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 10 3 | 10 30 | 10 54 | 15 37 | 7 6 | F 17 |
| S 18 | 1 43 | 4 5 | 3 41 | 6 17 | 3 45 | 3 26 | 8 26 | 4 29 | 0 29 | 3 8 | 1 5 | 12 31 | 2 10 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 10 1 | 10 29 | 10 52 | 15 37 | 7 6 | S 18 |
| S 19 | 1 20 | 0n44 | 2 37 | 5 49 | 3 36 | 3 7 | 8 20 | 4 45 | 0 28 | 3 3 | 1 5 | 12 33 | 2 9 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 10 0 | 10 28 | 10 51 | 15 38 | 7 5 | S 19 |
| M20 | 0 57 | 5 27 | 1 23 | 5 17 | 3 26 | 2 47 | 8 13 | 5 1 | 0 27 | 2 58 | 1 5 | 12 35 | 2 9 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 9 59 | 10 27 | 10 49 | 15 38 | 7 5 | M20 |
| T 21 | 0 33 | 9 45 | 0 5 | 4 41 | 3 14 | 2 28 | 8 6 | 5 17 | 0 27 | 2 53 | 1 5 | 12 37 | 2 9 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 9 59 | 10 26 | 10 47 | 15 39 | 7 4 | T 21 |
| W22 | 0 10 | 13 22 | 1s12 | 4 2 | 3 0 | 2 9 | 7 58 | 5 33 | 0 26 | 2 48 | 1 5 | 12 39 | 2 9 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 9 59 | 10 25 | 10 46 | 15 39 | 7 4 | W22 |
| T 23 | 0s14 | 16 8 | 2 21 | 3 21 | 2 45 | 1 49 | 7 49 | 5 49 | 0 26 | 2 43 | 1 6 | 12 41 | 2 9 | 21 31 | 0 34 | 22 26 | 0 54 | 15 53 | 7 23 | 9 59 | 10 23 | 10 44 | 15 40 | 7 3 | T 23 |
| F 24 | 0 37 | 17 58 | 3 22 | 2 38 | 2 27 | 1 30 | 7 39 | 6 5 | 0 25 | 2 38 | 1 6 | 12 43 | 2 9 | 21 32 | 0 34 | 22 26 | 0 54 | 15 52 | 7 24 | 10 0 | 10 22 | 10 42 | 15 40 | 7 3 | F 24 |
| S 25 | 1 1 | 18 49 | 4 10 | 1 55 | 2 9 | 1 11 | 7 29 | 6 21 | 0 25 | 2 33 | 1 6 | 12 45 | 2 9 | 21 32 | 0 34 | 22 26 | 0 54 | 15 52 | 7 24 | 10 1 | 10 21 | 10 40 | 15 41 | 7 2 | S 25 |
| S 26 | 1 24 | 18 43 | 4 45 | 1 12 | 1 49 | 0 53 | 7 18 | 6 37 | 0 24 | 2 27 | 1 6 | 12 47 | 2 8 | 21 32 | 0 34 | 22 26 | 0 54 | 15 52 | 7 24 | 10 1 | 10 20 | 10 39 | 15 41 | 7 2 | S 26 |
| M27 | 1 48 | 17 46 | 5 7 | 0 31 | 1 29 | 0 34 | 7 7 | 6 53 | 0 24 | 2 22 | 1 6 | 12 49 | 2 8 | 21 32 | 0 34 | 22 26 | 0 54 | 15 52 | 7 24 | 10 1 | 10 19 | 10 37 | 15 42 | 7 1 | M27 |
| T 28 | 2 11 | 16 2 | 5 15 | 0n 8 | 1 9 | 0 17 | 6 55 | 7 9 | 0 23 | 2 17 | 1 6 | 12 51 | 2 8 | 21 32 | 0 34 | 22 26 | 0 54 | 15 52 | 7 24 | 10 0 | 10 18 | 10 35 | 15 42 | 7 0 | T 28 |
| W29 | 2 35 | 13 38 | 5 9 | 0 44 | 0 48 | 0n 0 | 6 44 | 7 24 | 0 22 | 2 12 | 1 6 | 12 53 | 2 8 | 21 32 | 0 34 | 22 26 | 0 54 | 15 52 | 7 24 | 10 0 | 10 17 | 10 33 | 15 43 | 7 0 | W29 |
| T 30 | 2s58 | 10n40 | 4s51 | 1n16 | 0s28 | 0n17 | 6s31 | 7s40 | 0n22 | 2n 7 | 1n 6 | 12s55 | 2n 8 | 21s32 | 0s34 | 22s26 | 0n54 | 15n52 | 7s24 | 9s59 | 10s15 | 10n32 | 15s43 | 6n59 | T 30 |

Julian Day Number = 2327606.5, Delta T = 35.93 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'14, Lahiri = 19°07'14Greg. Calendar


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## OCTOBER 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 41 31 | 8♎27'10 | 0♍29 | 25°R21 | 13°R49 | 21♎ 8 | 27♍26 | 10♏27 | 26°R 4 | 6♑17 | 22°R14 | 25°R43 | 26♎30 | 19♌29 | 14♑43 | F 1 |
| S 2 | 0 45 28 | 9°26'24 | 12°27 | 25♍ 7 | 13♍41 | 21°48 | 27°38 | 10°33 | 26♑ 4 | 6°18 | 22♊14 | 25♎41 | 26°26 | 19°35 | 14°44 | S 2 |
| S 3 | 0 49 24 | 10°25'41 | 24°32 | 25°D 5 | 13°34 | 22°29 | 27°51 | 10°40 | 26° 4 | 6°18 | 22°14 | 25°38 | 26°23 | 19°42 | 14°45 | S 3 |
| M 4 | 0 53 21 | 11°25'00 | 6♎47 | 25°13 | 13°31 | 23° 9 | 28° 4 | 10°46 | 26° 4 | 6°19 | 22°13 | 25°37 | 26°20 | 19°49 | 14°46 | M 4 |
| T 5 | 0 57 18 | 12°24'21 | 19°12 | 25°32 | 13°D29 | 23°50 | 28°17 | 10°53 | 26°D 4 | 6°19 | 22°13 | 25°36 | 26°17 | 19°55 | 14°47 | T 5 |
| W 6 | 1 1 14 | 13°23'44 | 1♏48 | 26° 0 | 13°30 | 24°30 | 28°30 | 11° 0 | 26° 4 | 6°20 | 22°13 | 25°D36 | 26°14 | 20° 2 | 14°49 | W 6 |
| T 7 | 1 5 11 | 14°23'10 | 14°37 | 26°38 | 13°34 | 25°11 | 28°42 | 11° 6 | 26° 4 | 6°21 | 22°12 | 25°37 | 26°10 | 20° 9 | 14°50 | T 7 |
| F 8 | 1 9 7 | 15°22'37 | 27°39 | 27°25 | 13°39 | 25°52 | 28°55 | 11°13 | 26° 4 | 6°21 | 22°12 | 25°38 | 26° 7 | 20°16 | 14°51 | F 8 |
| S 9 | 1 13 4 | 16°22'06 | 10♐55 | 28°19 | 13°47 | 26°32 | 29° 8 | 11°20 | 26° 4 | 6°22 | 22°12 | 25°39 | 26° 4 | 20°22 | 14°53 | S 9 |
| S 10 | 1 17 0 | 17°21'37 | 24°26 | 29°21 | 13°57 | 27°13 | 29°21 | 11°26 | 26° 4 | 6°23 | 22°11 | 25°39 | 26° 1 | 20°29 | 14°54 | S 10 |
| M11 | 1 20 57 | 18°21'09 | 8♑10 | 0♎29 | 14° 9 | 27°54 | 29°33 | 11°33 | 26° 5 | 6°24 | 22°11 | 25°40 | 25°58 | 20°36 | 14°56 | M11 |
| T 12 | 1 24 53 | 19°20'44 | 22°10 | 1°43 | 14°24 | 28°35 | 29°46 | 11°40 | 26° 5 | 6°24 | 22°10 | 25°R40 | 25°55 | 20°42 | 14°57 | T 12 |
| W13 | 1 28 50 | 20°20'20 | 6♒22 | 3° 2 | 14°40 | 29°16 | 29°58 | 11°47 | 26° 5 | 6°25 | 22°10 | 25°40 | 25°51 | 20°49 | 14°59 | W13 |
| T 14 | 1 32 47 | 21°19'57 | 20°46 | 4°24 | 14°59 | 29°57 | 0♎11 | 11°53 | 26° 6 | 6°26 | 22° 9 | 25°39 | 25°48 | 20°56 | 15° 1 | T 14 |
| F 15 | 1 36 43 | 22°19'37 | 5♓18 | 5°51 | 15°19 | 0♏38 | 0°23 | 12° 0 | 26° 6 | 6°27 | 22° 9 | 25°39 | 25°45 | 21° 3 | 15° 2 | F 15 |
| S 16 | 1 40 40 | 23°19'18 | 19°52 | 7°20 | 15°41 | 1°19 | 0°36 | 12° 7 | 26° 7 | 6°28 | 22° 8 | 25°39 | 25°42 | 21° 9 | 15° 4 | S 16 |
| S 17 | 1 44 36 | 24°19'01 | 4♈24 | 8°52 | 16° 5 | 2° 0 | 0°48 | 12°14 | 26° 8 | 6°29 | 22° 8 | 25°38 | 25°39 | 21°16 | 15° 6 | S 17 |
| M18 | 1 48 33 | 25°18'46 | 18°47 | 10°26 | 16°31 | 2°41 | 1° 1 | 12°21 | 26° 8 | 6°30 | 22° 7 | 25°38 | 25°35 | 21°23 | 15° 8 | M18 |
| T 19 | 1 52 29 | 26°18'32 | 2♉57 | 12° 1 | 16°58 | 3°22 | 1°13 | 12°28 | 26° 9 | 6°31 | 22° 7 | 25°38 | 25°32 | 21°29 | 15°11 | T 19 |
| W20 | 1 56 26 | 27°18'21 | 16°48 | 13°38 | 17°27 | 4° 4 | 1°25 | 12°35 | 26°10 | 6°32 | 22° 6 | 25°38 | 25°29 | 21°36 | 15°13 | W20 |
| T 21 | 2 0 22 | 28°18'12 | 0♊19 | 15°15 | 17°58 | 4°45 | 1°38 | 12°42 | 26°10 | 6°33 | 22° 6 | 25°38 | 25°26 | 21°43 | 15°15 | T 21 |
| F 22 | 2 4 19 | 29°18'05 | 13°27 | 16°54 | 18°30 | 5°26 | 1°50 | 12°49 | 26°11 | 6°34 | 22° 5 | 25°38 | 25°23 | 21°50 | 15°17 | F 22 |
| S 23 | 2 8 15 | 0♏18'01 | 26°14 | 18°32 | 19° 4 | 6° 8 | 2° 2 | 12°56 | 26°12 | 6°35 | 22° 4 | 25°37 | 25°20 | 21°56 | 15°20 | S 23 |
| S 24 | 2 12 12 | 1°17'58 | 8♋41 | 20°12 | 19°39 | 6°49 | 2°14 | 13° 3 | 26°13 | 6°36 | 22° 4 | 25°37 | 25°16 | 22° 3 | 15°22 | S 24 |
| M25 | 2 16 9 | 2°17'58 | 20°54 | 21°51 | 20°15 | 7°31 | 2°26 | 13°10 | 26°14 | 6°38 | 22° 3 | 25°36 | 25°13 | 22°10 | 15°25 | M25 |
| T 26 | 2 20 5 | 3°18'00 | 2♌54 | 23°31 | 20°53 | 8°12 | 2°38 | 13°17 | 26°15 | 6°39 | 22° 2 | 25°D36 | 25°10 | 22°16 | 15°28 | T 26 |
| W27 | 2 24 2 | 4°18'03 | 14°48 | 25°10 | 21°32 | 8°54 | 2°50 | 13°24 | 26°16 | 6°40 | 22° 1 | 25°36 | 25° 7 | 22°23 | 15°30 | W27 |
| T 28 | 2 27 58 | 5°18'09 | 26°40 | 26°50 | 22°12 | 9°36 | 3° 2 | 13°32 | 26°17 | 6°41 | 22° 1 | 25°37 | 25° 4 | 22°30 | 15°33 | T 28 |
| F 29 | 2 31 55 | 6°18'17 | 8♍34 | 28°29 | 22°54 | 10°17 | 3°14 | 13°39 | 26°19 | 6°43 | 22° 0 | 25°38 | 25° 1 | 22°36 | 15°36 | F 29 |
| S 30 | 2 35 51 | 7°18'28 | 20°34 | 0♏ 8 | 23°36 | 10°59 | 3°26 | 13°46 | 26°20 | 6°44 | 21°59 | 25°39 | 24°57 | 22°43 | 15°39 | S 30 |
| S 31 | 2 39 48 | 8♏18'40 | 2♎45 | 1♏47 | 24♍20 | 11♏41 | 3♎38 | 13♏53 | 26♑21 | 6♑45 | 21♊58 | 25♎40 | 24♎54 | 22♌50 | 15♑42 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3s21 | 7n17 | 4s19 | 1n43 | 0s 9 | 0n32 | 6s19 | 7s56 | 0n21 | 2n 2 | 1n 6 | 12s58 | 2n 8 | 21s32 | 0s34 | 22s26 | 0n54 | 15n52 | 7s24 | 9s58 | 10s14 | 10n30 | 15s44 | 6n59 |
| S 2 | 3 45 | 3 34 | 3 36 | 2 5 | 0n 9 | 0 47 | 6 6 | 8 11 | 0 21 | 1 57 | 1 6 | 13 0 | 2 8 | 21 32 | 0 34 | 22 26 | 0 54 | 15 51 | 7 24 | 9 57 | 10 13 | 10 28 | 15 44 | 6 58 |
| S 3 | 4 8 | 0s20 | 2 43 | 2 21 | 0 26 | 1 2 | 5 54 | 8 27 | 0 20 | 1 52 | 1 6 | 13 2 | 2 7 | 21 32 | 0 34 | 22 26 | 0 54 | 15 51 | 7 25 | 9 56 | 10 12 | 10 27 | 15 44 | 6 58 |
| M 4 | 4 31 | 4 16 | 1 42 | 2 33 | 0 42 | 1 15 | 5 41 | 8 43 | 0 20 | 1 47 | 1 6 | 13 4 | 2 7 | 21 32 | 0 34 | 22 26 | 0 54 | 15 51 | 7 25 | 9 55 | 10 11 | 10 25 | 15 45 | 6 57 |
| T 5 | 4 55 | 8 4 | 0 35 | 2 39 | 0 56 | 1 27 | 5 28 | 8 58 | 0 19 | 1 42 | 1 6 | 13 6 | 2 7 | 21 32 | 0 34 | 22 26 | 0 54 | 15 51 | 7 25 | 9 55 | 10 10 | 10 23 | 15 45 | 6 57 |
| W 6 | 5 18 | 11 35 | 0n34 | 2 39 | 1 9 | 1 39 | 5 15 | 9 14 | 0 18 | 1 37 | 1 6 | 13 8 | 2 7 | 21 32 | 0 34 | 22 26 | 0 54 | 15 51 | 7 25 | 9 55 | 10 9 | 10 21 | 15 46 | 6 56 |
| T 7 | 5 41 | 14 36 | 1 43 | 2 34 | 1 21 | 1 50 | 5 2 | 9 29 | 0 18 | 1 32 | 1 6 | 13 10 | 2 7 | 21 32 | 0 34 | 22 26 | 0 54 | 15 51 | 7 25 | 9 55 | 10 7 | 10 20 | 15 46 | 6 56 |
| F 8 | 6 4 | 16 56 | 2 48 | 2 25 | 1 30 | 2 0 | 4 49 | 9 44 | 0 17 | 1 27 | 1 6 | 13 13 | 2 7 | 21 32 | 0 34 | 22 26 | 0 54 | 15 51 | 7 25 | 9 55 | 10 6 | 10 18 | 15 46 | 6 55 |
| S 9 | 6 27 | 18 24 | 3 46 | 2 11 | 1 39 | 2 8 | 4 36 | 10 0 | 0 17 | 1 22 | 1 6 | 13 15 | 2 7 | 21 32 | 0 34 | 22 26 | 0 53 | 15 51 | 7 25 | 9 56 | 10 5 | 10 16 | 15 47 | 6 55 |
| S 10 | 6 50 | 18 51 | 4 31 | 1 53 | 1 46 | 2 16 | 4 23 | 10 15 | 0 16 | 1 17 | 1 6 | 13 17 | 2 7 | 21 32 | 0 34 | 22 26 | 0 53 | 15 50 | 7 25 | 9 56 | 10 4 | 10 14 | 15 47 | 6 54 |
| M11 | 7 12 | 18 12 | 5 3 | 1 31 | 1 52 | 2 24 | 4 10 | 10 30 | 0 15 | 1 12 | 1 7 | 13 19 | 2 7 | 21 32 | 0 34 | 22 26 | 0 53 | 15 50 | 7 25 | 9 56 | 10 3 | 10 13 | 15 47 | 6 54 |
| T 12 | 7 35 | 16 27 | 5 17 | 1 5 | 1 56 | 2 30 | 3 58 | 10 45 | 0 15 | 1 7 | 1 7 | 13 21 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 50 | 7 26 | 9 56 | 10 2 | 10 11 | 15 48 | 6 53 |
| W13 | 7 58 | 13 41 | 5 12 | 0 37 | 1 59 | 2 35 | 3 45 | 11 0 | 0 14 | 1 2 | 1 7 | 13 23 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 50 | 7 26 | 9 56 | 10 0 | 10 9 | 15 48 | 6 53 |
| T 14 | 8 20 | 10 3 | 4 47 | 0 6 | 2 1 | 2 39 | 3 33 | 11 15 | 0 14 | 0 57 | 1 7 | 13 26 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 50 | 7 26 | 9 56 | 9 59 | 10 7 | 15 48 | 6 52 |
| F 15 | 8 42 | 5 48 | 4 5 | 0s27 | 2 2 | 2 43 | 3 21 | 11 30 | 0 13 | 0 52 | 1 7 | 13 28 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 50 | 7 26 | 9 56 | 9 58 | 10 6 | 15 49 | 6 52 |
| S 16 | 9 5 | 1 10 | 3 6 | 1 2 | 2 3 | 2 45 | 3 9 | 11 45 | 0 13 | 0 47 | 1 7 | 13 30 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 50 | 7 26 | 9 56 | 9 57 | 10 4 | 15 49 | 6 51 |
| S 17 | 9 27 | 3n31 | 1 55 | 1 39 | 2 2 | 2 47 | 2 57 | 12 0 | 0 12 | 0 42 | 1 7 | 13 32 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 50 | 7 26 | 9 56 | 9 56 | 10 2 | 15 49 | 6 51 |
| M18 | 9 49 | 7 58 | 0 38 | 2 17 | 2 1 | 2 47 | 2 45 | 12 15 | 0 11 | 0 37 | 1 7 | 13 34 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 49 | 7 26 | 9 56 | 9 55 | 10 0 | 15 50 | 6 50 |
| T 19 | 10 10 | 11 53 | 0s40 | 2 56 | 1 58 | 2 47 | 2 34 | 12 30 | 0 11 | 0 32 | 1 7 | 13 37 | 2 6 | 21 31 | 0 34 | 22 26 | 0 53 | 15 49 | 7 26 | 9 56 | 9 53 | 9 59 | 15 50 | 6 50 |
| W20 | 10 32 | 15 3 | 1 55 | 3 36 | 1 56 | 2 46 | 2 23 | 12 44 | 0 10 | 0 28 | 1 7 | 13 39 | 2 6 | 21 30 | 0 34 | 22 26 | 0 53 | 15 49 | 7 26 | 9 56 | 9 52 | 9 57 | 15 50 | 6 49 |
| T 21 | 10 53 | 17 18 | 3 1 | 4 17 | 1 53 | 2 45 | 2 12 | 12 59 | 0 10 | 0 23 | 1 7 | 13 41 | 2 6 | 21 30 | 0 34 | 22 26 | 0 53 | 15 49 | 7 26 | 9 56 | 9 51 | 9 55 | 15 50 | 6 49 |
| F 22 | 11 15 | 18 34 | 3 55 | 4 58 | 1 49 | 2 42 | 2 1 | 13 13 | 0 9 | 0 18 | 1 7 | 13 43 | 2 6 | 21 30 | 0 34 | 22 26 | 0 53 | 15 49 | 7 27 | 9 55 | 9 50 | 9 53 | 15 51 | 6 48 |
| S 23 | 11 36 | 18 49 | 4 37 | 5 40 | 1 45 | 2 38 | 1 50 | 13 27 | 0 8 | 0 13 | 1 8 | 13 45 | 2 6 | 21 30 | 0 34 | 22 26 | 0 53 | 15 49 | 7 27 | 9 55 | 9 49 | 9 52 | 15 51 | 6 48 |
| S 24 | 11 57 | 18 9 | 5 4 | 6 22 | 1 40 | 2 34 | 1 40 | 13 42 | 0 8 | 0 9 | 1 8 | 13 47 | 2 5 | 21 30 | 0 34 | 22 26 | 0 53 | 15 49 | 7 27 | 9 55 | 9 48 | 9 50 | 15 51 | 6 47 |
| M25 | 12 18 | 16 39 | 5 16 | 7 4 | 1 35 | 2 29 | 1 30 | 13 56 | 0 7 | 0 4 | 1 8 | 13 50 | 2 5 | 21 29 | 0 34 | 22 26 | 0 53 | 15 49 | 7 27 | 9 55 | 9 47 | 9 48 | 15 51 | 6 47 |
| T 26 | 12 38 | 14 26 | 5 15 | 7 45 | 1 30 | 2 24 | 1 20 | 14 10 | 0 7 | 0s 1 | 1 8 | 13 52 | 2 5 | 21 29 | 0 34 | 22 26 | 0 53 | 15 48 | 7 27 | 9 55 | 9 45 | 9 46 | 15 51 | 6 46 |
| W27 | 12 59 | 11 39 | 5 0 | 8 27 | 1 24 | 2 17 | 1 10 | 14 24 | 0 6 | 0 6 | 1 8 | 13 54 | 2 5 | 21 29 | 0 34 | 22 26 | 0 53 | 15 48 | 7 27 | 9 55 | 9 44 | 9 45 | 15 52 | 6 46 |
| T 28 | 13 19 | 8 23 | 4 32 | 9 9 | 1 18 | 2 10 | 1 1 | 14 38 | 0 5 | 0 10 | 1 8 | 13 56 | 2 5 | 21 29 | 0 34 | 22 26 | 0 53 | 15 48 | 7 27 | 9 55 | 9 43 | 9 43 | 15 52 | 6 45 |
| F 29 | 13 39 | 4 47 | 3 52 | 9 50 | 1 12 | 2 2 | 0 52 | 14 51 | 0 5 | 0 15 | 1 8 | 13 58 | 2 5 | 21 29 | 0 34 | 22 26 | 0 53 | 15 48 | 7 27 | 9 55 | 9 42 | 9 41 | 15 52 | 6 45 |
| S 30 | 13 58 | 0 57 | 3 2 | 10 30 | 1 6 | 1 54 | 0 43 | 15 5 | 0 4 | 0 19 | 1 8 | 14 0 | 2 5 | 21 28 | 0 34 | 22 26 | 0 53 | 15 48 | 7 27 | 9 56 | 9 41 | 9 39 | 15 52 | 6 44 |
| S 31 | 14s18 | 2s59 | 2s 4 | 11s11 | 1n 0 | 1n44 | 0s34 | 15s18 | 0n 4 | 0s24 | 1n 8 | 14s 3 | 2n 5 | 21s28 | 0s33 | 22s26 | 0n53 | 15n48 | 7s27 | 9s56 | 9s40 | 9n38 | 15s52 | 6n44 |

Julian Day Number = 2327636.5, Delta T = 35.87 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'18, Lahiri = 19°07'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## NOVEMBER 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 43 44 | 9♏18'54 | 15♎10 | 3♏26 | 25♍ 5 | 12♏23 | 3♎50 | 14♏ 0 | 26♑22 | 6♑47 | 21°R58 | 25♎41 | 24♎51 | 22♌57 | 15♑45 | M 1 |
| T 2 | 2 47 41 | 10°19'10 | 27°50 | 5° 4 | 25°50 | 13° 5 | 4° 1 | 14° 7 | 26°24 | 6°48 | 21♊57 | 25°R41 | 24°48 | 23° 3 | 15°48 | T 2 |
| W 3 | 2 51 38 | 11°19'28 | 10♏46 | 6°42 | 26°37 | 13°47 | 4°13 | 14°14 | 26°25 | 6°50 | 21°56 | 25°41 | 24°45 | 23°10 | 15°51 | W 3 |
| T 4 | 2 55 34 | 12°19'47 | 23°59 | 8°20 | 27°25 | 14°29 | 4°24 | 14°22 | 26°27 | 6°51 | 21°55 | 25°39 | 24°41 | 23°17 | 15°54 | T 4 |
| F 5 | 2 59 31 | 13°20'09 | 7♐27 | 9°57 | 28°13 | 15°11 | 4°36 | 14°29 | 26°28 | 6°53 | 21°54 | 25°37 | 24°38 | 23°23 | 15°57 | F 5 |
| S 6 | 3 3 27 | 14°20'32 | 21° 8 | 11°34 | 29° 2 | 15°53 | 4°47 | 14°36 | 26°30 | 6°54 | 21°53 | 25°34 | 24°35 | 23°30 | 16° 1 | S 6 |
| S 7 | 3 7 24 | 15°20'56 | 5♑ 1 | 13°11 | 29°52 | 16°35 | 4°59 | 14°43 | 26°31 | 6°56 | 21°52 | 25°32 | 24°32 | 23°37 | 16° 4 | S 7 |
| M 8 | 3 11 20 | 16°21'22 | 19° 1 | 14°47 | 0♎43 | 17°18 | 5°10 | 14°50 | 26°33 | 6°57 | 21°51 | 25°29 | 24°29 | 23°44 | 16° 8 | M 8 |
| T 9 | 3 15 17 | 17°21'50 | 3♒ 7 | 16°23 | 1°35 | 18° 0 | 5°21 | 14°57 | 26°35 | 6°59 | 21°50 | 25°28 | 24°26 | 23°50 | 16°11 | T 9 |
| W10 | 3 19 13 | 18°22'18 | 17°17 | 17°59 | 2°27 | 18°42 | 5°32 | 15° 4 | 26°37 | 7° 1 | 21°50 | 25°D27 | 24°22 | 23°57 | 16°15 | W10 |
| T 11 | 3 23 10 | 19°22'48 | 1♓28 | 19°34 | 3°20 | 19°25 | 5°43 | 15°12 | 26°38 | 7° 2 | 21°49 | 25°27 | 24°19 | 24° 4 | 16°18 | T 11 |
| F 12 | 3 27 7 | 20°23'19 | 15°38 | 21°10 | 4°14 | 20° 7 | 5°54 | 15°19 | 26°40 | 7° 4 | 21°48 | 25°29 | 24°16 | 24°10 | 16°22 | F 12 |
| S 13 | 3 31 3 | 21°23'51 | 29°46 | 22°45 | 5° 9 | 20°50 | 6° 5 | 15°26 | 26°42 | 7° 6 | 21°47 | 25°30 | 24°13 | 24°17 | 16°26 | S 13 |
| S 14 | 3 35 0 | 22°24'25 | 13♈48 | 24°19 | 6° 4 | 21°32 | 6°16 | 15°33 | 26°44 | 7° 7 | 21°46 | 25°31 | 24°10 | 24°24 | 16°30 | S 14 |
| M15 | 3 38 56 | 23°25'00 | 27°44 | 25°54 | 7° 0 | 22°15 | 6°27 | 15°40 | 26°46 | 7° 9 | 21°45 | 25°R32 | 24° 7 | 24°30 | 16°33 | M15 |
| T 16 | 3 42 53 | 24°25'36 | 11♉29 | 27°28 | 7°56 | 22°57 | 6°37 | 15°47 | 26°48 | 7°11 | 21°44 | 25°31 | 24° 3 | 24°37 | 16°37 | T 16 |
| W17 | 3 46 49 | 25°26'14 | 25° 1 | 29° 2 | 8°53 | 23°40 | 6°48 | 15°54 | 26°50 | 7°13 | 21°43 | 25°28 | 24° 0 | 24°44 | 16°41 | W17 |
| T 18 | 3 50 46 | 26°26'53 | 8♊18 | 0♐36 | 9°50 | 24°23 | 6°58 | 16° 1 | 26°52 | 7°15 | 21°41 | 25°24 | 23°57 | 24°51 | 16°45 | T 18 |
| F 19 | 3 54 42 | 27°27'34 | 21°19 | 2°10 | 10°48 | 25° 6 | 7° 9 | 16° 9 | 26°54 | 7°16 | 21°40 | 25°19 | 23°54 | 24°57 | 16°49 | F 19 |
| S 20 | 3 58 39 | 28°28'16 | 4♋ 2 | 3°44 | 11°47 | 25°48 | 7°19 | 16°16 | 26°57 | 7°18 | 21°39 | 25°13 | 23°51 | 25° 4 | 16°53 | S 20 |
| S 21 | 4 2 36 | 29°28'59 | 16°29 | 5°17 | 12°46 | 26°31 | 7°29 | 16°23 | 26°59 | 7°20 | 21°38 | 25° 7 | 23°47 | 25°11 | 16°58 | S 21 |
| M22 | 4 6 32 | 0♐29'44 | 28°42 | 6°51 | 13°45 | 27°14 | 7°39 | 16°30 | 27° 1 | 7°22 | 21°37 | 25° 2 | 23°44 | 25°17 | 17° 2 | M22 |
| T 23 | 4 10 29 | 1°30'31 | 10♌43 | 8°24 | 14°45 | 27°57 | 7°49 | 16°37 | 27° 3 | 7°24 | 21°36 | 24°58 | 23°41 | 25°24 | 17° 6 | T 23 |
| W24 | 4 14 25 | 2°31'19 | 22°37 | 9°57 | 15°46 | 28°40 | 7°59 | 16°44 | 27° 6 | 7°26 | 21°35 | 24°56 | 23°38 | 25°31 | 17°10 | W24 |
| T 25 | 4 18 22 | 3°32'08 | 4♍27 | 11°30 | 16°47 | 29°23 | 8° 9 | 16°51 | 27° 8 | 7°28 | 21°34 | 24°D55 | 23°35 | 25°37 | 17°15 | T 25 |
| F 26 | 4 22 18 | 4°32'59 | 16°20 | 13° 3 | 17°48 | 0♐ 6 | 8°19 | 16°58 | 27°11 | 7°30 | 21°33 | 24°56 | 23°32 | 25°44 | 17°19 | F 26 |
| S 27 | 4 26 15 | 5°33'52 | 28°20 | 14°36 | 18°50 | 0°50 | 8°28 | 17° 5 | 27°13 | 7°32 | 21°32 | 24°58 | 23°28 | 25°51 | 17°24 | S 27 |
| S 28 | 4 30 11 | 6°34'45 | 10♎33 | 16° 9 | 19°52 | 1°33 | 8°38 | 17°11 | 27°16 | 7°34 | 21°30 | 24°59 | 23°25 | 25°58 | 17°28 | S 28 |
| M29 | 4 34 8 | 7°35'40 | 23° 2 | 17°42 | 20°55 | 2°16 | 8°47 | 17°18 | 27°18 | 7°36 | 21°29 | 25°R 0 | 23°22 | 26° 4 | 17°33 | M29 |
| T 30 | 4 38 5 | 8♐36'37 | 5♏51 | 19♐15 | 21♎57 | 3♐ 0 | 8♎56 | 17♏25 | 27♑21 | 7♑38 | 21♊28 | 24♎59 | 23♎19 | 26♌11 | 17♑37 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 14s37 | 6s52 | 0s58 | 11s50 | 0n54 | 1n34 | 0s25 | 15s32 | 0n 3 | 0s29 | 1n 9 | 14s 5 | 2n 5 | 21s28 | 0s33 | 22s26 | 0n53 | 15n48 | 7s27 | 9s57 | 9s38 | 9n36 | 15s52 | 6n43 |
| T 2 | 14 56 | 10 32 | 0n12 | 12 30 | 0 47 | 1 24 | 0 17 | 15 45 | 0 2 | 0 33 | 1 9 | 14 7 | 2 5 | 21 27 | 0 33 | 22 26 | 0 53 | 15 48 | 7 27 | 9 57 | 9 37 | 9 34 | 15 52 | 6 43 |
| W 3 | 15 15 | 13 47 | 1 22 | 13 8 | 0 40 | 1 13 | 0 9 | 15 58 | 0 2 | 0 38 | 1 9 | 14 9 | 2 5 | 21 27 | 0 33 | 22 26 | 0 53 | 15 47 | 7 27 | 9 56 | 9 36 | 9 32 | 15 52 | 6 42 |
| T 4 | 15 34 | 16 23 | 2 30 | 13 46 | 0 34 | 1 1 | 0 1 | 16 11 | 0 1 | 0 42 | 1 9 | 14 11 | 2 5 | 21 27 | 0 33 | 22 26 | 0 53 | 15 47 | 7 27 | 9 56 | 9 35 | 9 31 | 15 53 | 6 42 |
| F 5 | 15 52 | 18 8 | 3 31 | 14 24 | 0 27 | 0 49 | 0n 7 | 16 24 | 0 1 | 0 46 | 1 9 | 14 13 | 2 5 | 21 27 | 0 33 | 22 26 | 0 52 | 15 47 | 7 28 | 9 55 | 9 34 | 9 29 | 15 53 | 6 42 |
| S 6 | 16 10 | 18 52 | 4 20 | 15 0 | 0 20 | 0 36 | 0 15 | 16 37 | 0 0 | 0 51 | 1 9 | 14 15 | 2 5 | 21 26 | 0 33 | 22 26 | 0 52 | 15 47 | 7 28 | 9 54 | 9 33 | 9 27 | 15 53 | 6 41 |
| S 7 | 16 28 | 18 28 | 4 55 | 15 36 | 0 14 | 0 23 | 0 22 | 16 50 | 0s 1 | 0 55 | 1 9 | 14 18 | 2 5 | 21 26 | 0 33 | 22 26 | 0 52 | 15 47 | 7 28 | 9 53 | 9 31 | 9 25 | 15 53 | 6 41 |
| M 8 | 16 45 | 16 58 | 5 13 | 16 11 | 0 7 | 0 9 | 0 29 | 17 3 | 0 1 | 1 0 | 1 9 | 14 20 | 2 5 | 21 26 | 0 33 | 22 26 | 0 52 | 15 47 | 7 28 | 9 52 | 9 30 | 9 23 | 15 53 | 6 40 |
| T 9 | 17 3 | 14 26 | 5 12 | 16 46 | 0 0 | 0s 5 | 0 36 | 17 15 | 0 2 | 1 4 | 1 10 | 14 22 | 2 5 | 21 25 | 0 33 | 22 26 | 0 52 | 15 47 | 7 28 | 9 52 | 9 29 | 9 22 | 15 53 | 6 40 |
| W10 | 17 20 | 11 2 | 4 52 | 17 19 | 0s 7 | 0 20 | 0 43 | 17 27 | 0 2 | 1 8 | 1 10 | 14 24 | 2 5 | 21 25 | 0 33 | 22 25 | 0 52 | 15 47 | 7 28 | 9 52 | 9 28 | 9 20 | 15 53 | 6 40 |
| T 11 | 17 36 | 7 0 | 4 15 | 17 52 | 0 13 | 0 35 | 0 49 | 17 40 | 0 3 | 1 12 | 1 10 | 14 26 | 2 5 | 21 24 | 0 33 | 22 25 | 0 52 | 15 47 | 7 28 | 9 52 | 9 27 | 9 18 | 15 53 | 6 39 |
| F 12 | 17 53 | 2 34 | 3 22 | 18 24 | 0 20 | 0 51 | 0 55 | 17 52 | 0 4 | 1 17 | 1 10 | 14 28 | 2 5 | 21 24 | 0 33 | 22 25 | 0 52 | 15 47 | 7 28 | 9 52 | 9 26 | 9 16 | 15 53 | 6 39 |
| S 13 | 18 9 | 2n 0 | 2 17 | 18 55 | 0 26 | 1 7 | 1 1 | 18 4 | 0 4 | 1 21 | 1 10 | 14 30 | 2 5 | 21 24 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 53 | 9 24 | 9 15 | 15 53 | 6 38 |
| S 14 | 18 24 | 6 26 | 1 4 | 19 25 | 0 33 | 1 23 | 1 7 | 18 15 | 0 5 | 1 25 | 1 10 | 14 32 | 2 5 | 21 23 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 53 | 9 23 | 9 13 | 15 53 | 6 38 |
| M15 | 18 40 | 10 30 | 0s12 | 19 54 | 0 39 | 1 40 | 1 13 | 18 27 | 0 5 | 1 29 | 1 10 | 14 34 | 2 5 | 21 23 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 53 | 9 22 | 9 11 | 15 53 | 6 38 |
| T 16 | 18 55 | 13 56 | 1 26 | 20 22 | 0 46 | 1 57 | 1 18 | 18 38 | 0 6 | 1 33 | 1 11 | 14 36 | 2 5 | 21 23 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 53 | 9 21 | 9 9 | 15 52 | 6 37 |
| W17 | 19 9 | 16 33 | 2 34 | 20 49 | 0 52 | 2 15 | 1 24 | 18 50 | 0 7 | 1 37 | 1 11 | 14 38 | 2 5 | 21 22 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 52 | 9 20 | 9 8 | 15 52 | 6 37 |
| T 18 | 19 24 | 18 14 | 3 33 | 21 15 | 0 58 | 2 33 | 1 29 | 19 1 | 0 7 | 1 41 | 1 11 | 14 40 | 2 5 | 21 22 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 51 | 9 18 | 9 6 | 15 52 | 6 36 |
| F 19 | 19 38 | 18 54 | 4 19 | 21 40 | 1 4 | 2 51 | 1 34 | 19 12 | 0 8 | 1 45 | 1 11 | 14 42 | 2 5 | 21 21 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 49 | 9 17 | 9 4 | 15 52 | 6 36 |
| S 20 | 19 51 | 18 35 | 4 51 | 22 4 | 1 10 | 3 10 | 1 38 | 19 23 | 0 8 | 1 49 | 1 11 | 14 44 | 2 5 | 21 21 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 46 | 9 16 | 9 2 | 15 52 | 6 36 |
| S 21 | 20 5 | 17 22 | 5 8 | 22 27 | 1 15 | 3 28 | 1 43 | 19 33 | 0 9 | 1 53 | 1 11 | 14 46 | 2 5 | 21 20 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 44 | 9 15 | 9 0 | 15 52 | 6 35 |
| M22 | 20 17 | 15 23 | 5 11 | 22 49 | 1 21 | 3 47 | 1 47 | 19 44 | 0 10 | 1 57 | 1 12 | 14 48 | 2 5 | 21 20 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 42 | 9 14 | 8 59 | 15 52 | 6 35 |
| T 23 | 20 30 | 12 46 | 5 0 | 23 10 | 1 26 | 4 7 | 1 51 | 19 54 | 0 10 | 2 1 | 1 12 | 14 50 | 2 5 | 21 19 | 0 33 | 22 25 | 0 52 | 15 46 | 7 28 | 9 41 | 9 13 | 8 57 | 15 51 | 6 35 |
| W24 | 20 42 | 9 39 | 4 36 | 23 29 | 1 31 | 4 27 | 1 55 | 20 4 | 0 11 | 2 4 | 1 12 | 14 52 | 2 5 | 21 19 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 40 | 9 11 | 8 55 | 15 51 | 6 34 |
| T 25 | 20 54 | 6 10 | 4 0 | 23 47 | 1 36 | 4 46 | 1 59 | 20 14 | 0 11 | 2 8 | 1 12 | 14 54 | 2 5 | 21 18 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 40 | 9 10 | 8 53 | 15 51 | 6 34 |
| F 26 | 21 5 | 2 25 | 3 15 | 24 4 | 1 41 | 5 6 | 2 3 | 20 24 | 0 12 | 2 12 | 1 12 | 14 56 | 2 5 | 21 18 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 40 | 9 9 | 8 52 | 15 51 | 6 34 |
| S 27 | 21 16 | 1s28 | 2 20 | 24 20 | 1 45 | 5 27 | 2 6 | 20 34 | 0 13 | 2 15 | 1 12 | 14 58 | 2 5 | 21 17 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 41 | 9 8 | 8 50 | 15 51 | 6 33 |
| S 28 | 21 27 | 5 22 | 1 18 | 24 35 | 1 50 | 5 47 | 2 9 | 20 43 | 0 13 | 2 19 | 1 13 | 15 0 | 2 5 | 21 17 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 41 | 9 7 | 8 48 | 15 50 | 6 33 |
| M29 | 21 37 | 9 8 | 0 11 | 24 48 | 1 54 | 6 8 | 2 12 | 20 53 | 0 14 | 2 22 | 1 13 | 15 2 | 2 5 | 21 16 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 42 | 9 6 | 8 46 | 15 50 | 6 33 |
| T 30 | 21s47 | 12s34 | 0n58 | 25s 0 | 1s57 | 6s28 | 2n15 | 21s 2 | 0s14 | 2s26 | 1n13 | 15s 4 | 2n 5 | 21s16 | 0s33 | 22s24 | 0n52 | 15n45 | 7s28 | 9s41 | 9s 4 | 8n44 | 15s50 | 6n33 |

Julian Day Number = 2327667.5, Delta T = 35.82 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'22, Lahiri = 19°07'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1660
# geocentric

## DECEMBER 1660 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 42 1 | 9♐37'34 | 19♏ 2 | 20♐48 | 23♎ 1 | 3♐43 | 9♎ 6 | 17♏32 | 27♑23 | 7♑40 | 21°R27 | 24°R57 | 23♎16 | 26♌18 | 17♑42 | W 1 |
| T 2 | 4 45 58 | 10°38'33 | 2♐36 | 22°20 | 24° 4 | 4°26 | 9°15 | 17°39 | 27°26 | 7°42 | 21♊26 | 24♎52 | 23°13 | 26°24 | 17°46 | T 2 |
| F 3 | 4 49 54 | 11°39'33 | 16°30 | 23°53 | 25° 8 | 5°10 | 9°24 | 17°46 | 27°29 | 7°44 | 21°25 | 24°45 | 23° 9 | 26°31 | 17°51 | F 3 |
| S 4 | 4 53 51 | 12°40'33 | 0♑40 | 25°25 | 26°12 | 5°53 | 9°33 | 17°52 | 27°31 | 7°46 | 21°24 | 24°37 | 23° 6 | 26°38 | 17°56 | S 4 |
| S 5 | 4 57 47 | 13°41'35 | 15° 2 | 26°57 | 27°17 | 6°37 | 9°41 | 17°59 | 27°34 | 7°48 | 21°22 | 24°29 | 23° 3 | 26°45 | 18° 1 | S 5 |
| M 6 | 5 1 44 | 14°42'37 | 29°29 | 28°29 | 28°22 | 7°21 | 9°50 | 18° 6 | 27°37 | 7°50 | 21°21 | 24°22 | 23° 0 | 26°51 | 18° 5 | M 6 |
| T 7 | 5 5 40 | 15°43'39 | 13♒56 | 0♑ 1 | 29°27 | 8° 4 | 9°58 | 18°12 | 27°40 | 7°52 | 21°20 | 24°16 | 22°57 | 26°58 | 18°10 | T 7 |
| W 8 | 5 9 37 | 16°44'43 | 28°17 | 1°32 | 0♏32 | 8°48 | 10° 7 | 18°19 | 27°42 | 7°55 | 21°19 | 24°12 | 22°53 | 27° 5 | 18°15 | W 8 |
| T 9 | 5 13 34 | 17°45'46 | 12♓29 | 3° 3 | 1°38 | 9°32 | 10°15 | 18°26 | 27°45 | 7°57 | 21°18 | 24°D10 | 22°50 | 27°11 | 18°20 | T 9 |
| F 10 | 5 17 30 | 18°46'50 | 26°30 | 4°33 | 2°44 | 10°16 | 10°23 | 18°32 | 27°48 | 7°59 | 21°17 | 24°10 | 22°47 | 27°18 | 18°25 | F 10 |
| S 11 | 5 21 27 | 19°47'54 | 10♈21 | 6° 2 | 3°50 | 11° 0 | 10°31 | 18°39 | 27°51 | 8° 1 | 21°15 | 24°11 | 22°44 | 27°25 | 18°30 | S 11 |
| S 12 | 5 25 23 | 20°48'59 | 24° 0 | 7°31 | 4°56 | 11°43 | 10°39 | 18°45 | 27°54 | 8° 3 | 21°14 | 24°R12 | 22°41 | 27°31 | 18°35 | S 12 |
| M13 | 5 29 20 | 21°50'04 | 7♉29 | 8°59 | 6° 3 | 12°27 | 10°47 | 18°51 | 27°57 | 8° 5 | 21°13 | 24°11 | 22°38 | 27°38 | 18°40 | M13 |
| T 14 | 5 33 16 | 22°51'09 | 20°48 | 10°26 | 7°10 | 13°11 | 10°54 | 18°58 | 28° 0 | 8° 8 | 21°12 | 24° 8 | 22°34 | 27°45 | 18°45 | T 14 |
| W15 | 5 37 13 | 23°52'15 | 3♊56 | 11°51 | 8°17 | 13°55 | 11° 2 | 19° 4 | 28° 3 | 8°10 | 21°11 | 24° 2 | 22°31 | 27°51 | 18°50 | W15 |
| T 16 | 5 41 9 | 24°53'21 | 16°53 | 13°15 | 9°24 | 14°40 | 11° 9 | 19°10 | 28° 6 | 8°12 | 21° 9 | 23°53 | 22°28 | 27°58 | 18°55 | T 16 |
| F 17 | 5 45 6 | 25°54'28 | 29°38 | 14°36 | 10°32 | 15°24 | 11°16 | 19°17 | 28° 9 | 8°14 | 21° 8 | 23°42 | 22°25 | 28° 5 | 19° 0 | F 17 |
| S 18 | 5 49 3 | 26°55'35 | 12♋11 | 15°56 | 11°40 | 16° 8 | 11°23 | 19°23 | 28°12 | 8°17 | 21° 7 | 23°30 | 22°22 | 28°12 | 19° 5 | S 18 |
| S 19 | 5 52 59 | 27°56'43 | 24°31 | 17°13 | 12°48 | 16°52 | 11°30 | 19°29 | 28°16 | 8°19 | 21° 6 | 23°18 | 22°19 | 28°18 | 19°10 | S 19 |
| M20 | 5 56 56 | 28°57'51 | 6♌40 | 18°26 | 13°56 | 17°36 | 11°37 | 19°35 | 28°19 | 8°21 | 21° 5 | 23° 6 | 22°15 | 28°25 | 19°15 | M20 |
| T 21 | 6 0 52 | 29°58'59 | 18°39 | 19°36 | 15° 4 | 18°21 | 11°44 | 19°41 | 28°22 | 8°23 | 21° 4 | 22°57 | 22°12 | 28°32 | 19°21 | T 21 |
| W22 | 6 4 49 | 1♑ 0'08 | 0♍31 | 20°41 | 16°13 | 19° 5 | 11°50 | 19°47 | 28°25 | 8°26 | 21° 2 | 22°50 | 22° 9 | 28°38 | 19°26 | W22 |
| T 23 | 6 8 45 | 2° 1'17 | 12°20 | 21°42 | 17°21 | 19°50 | 11°56 | 19°53 | 28°28 | 8°28 | 21° 1 | 22°45 | 22° 6 | 28°45 | 19°31 | T 23 |
| F 24 | 6 12 42 | 3° 2'27 | 24°11 | 22°37 | 18°30 | 20°34 | 12° 3 | 19°59 | 28°32 | 8°30 | 21° 0 | 22°43 | 22° 3 | 28°52 | 19°36 | F 24 |
| S 25 | 6 16 38 | 4° 3'37 | 6♎ 8 | 23°25 | 19°39 | 21°18 | 12° 9 | 20° 5 | 28°35 | 8°32 | 20°59 | 22°D43 | 21°59 | 28°58 | 19°42 | S 25 |
| S 26 | 6 20 35 | 5° 4'47 | 18°17 | 24° 5 | 20°48 | 22° 3 | 12°15 | 20°11 | 28°38 | 8°35 | 20°58 | 22°R43 | 21°56 | 29° 5 | 19°47 | S 26 |
| M27 | 6 24 32 | 6° 5'58 | 0♏44 | 24°38 | 21°58 | 22°48 | 12°20 | 20°16 | 28°42 | 8°37 | 20°57 | 22°43 | 21°53 | 29°12 | 19°52 | M27 |
| T 28 | 6 28 28 | 7° 7'10 | 13°34 | 25° 1 | 23° 7 | 23°32 | 12°26 | 20°22 | 28°45 | 8°39 | 20°55 | 22°41 | 21°50 | 29°19 | 19°58 | T 28 |
| W29 | 6 32 25 | 8° 8'21 | 26°49 | 25°14 | 24°17 | 24°17 | 12°31 | 20°28 | 28°48 | 8°41 | 20°54 | 22°37 | 21°47 | 29°25 | 20° 3 | W29 |
| T 30 | 6 36 21 | 9° 9'33 | 10♐32 | 25°R16 | 25°27 | 25° 2 | 12°37 | 20°33 | 28°52 | 8°44 | 20°53 | 22°30 | 21°44 | 29°32 | 20° 8 | T 30 |
| F 31 | 6 40 18 | 10♑10'45 | 24♐42 | 25♑ 6 | 26♏37 | 25♐47 | 12♎42 | 20♏39 | 28♑55 | 8♑46 | 20♊52 | 22♎20 | 21♎40 | 29♌39 | 20♑14 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21s56 | 15s29 | 2n 6 | 25s10 | 2s 1 | 6s49 | 2n18 | 21s11 | 0s15 | 2s29 | 1n13 | 15s 6 | 2n 5 | 21s15 | 0s33 | 22s24 | 0n52 | 15n45 | 7s28 | 9s41 | 9s 3 | 8n43 | 15s49 | 6n32 |
| T 2 | 22 5 | 17 38 | 3 9 | 25 19 | 2 4 | 7 10 | 2 21 | 21 19 | 0 16 | 2 33 | 1 13 | 15 7 | 2 5 | 21 15 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 39 | 9 2 | 8 41 | 15 49 | 6 32 |
| F 3 | 22 13 | 18 47 | 4 2 | 25 27 | 2 7 | 7 31 | 2 23 | 21 28 | 0 16 | 2 36 | 1 14 | 15 9 | 2 5 | 21 14 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 36 | 9 1 | 8 39 | 15 49 | 6 32 |
| S 4 | 22 21 | 18 48 | 4 41 | 25 33 | 2 9 | 7 52 | 2 26 | 21 36 | 0 17 | 2 39 | 1 14 | 15 11 | 2 5 | 21 14 | 0 33 | 22 24 | 0 52 | 15 45 | 7 28 | 9 33 | 9 0 | 8 37 | 15 49 | 6 31 |
| S 5 | 22 29 | 17 37 | 5 3 | 25 38 | 2 12 | 8 14 | 2 28 | 21 44 | 0 18 | 2 43 | 1 14 | 15 13 | 2 5 | 21 13 | 0 33 | 22 23 | 0 52 | 15 45 | 7 28 | 9 30 | 8 58 | 8 35 | 15 48 | 6 31 |
| M 6 | 22 36 | 15 19 | 5 6 | 25 42 | 2 13 | 8 35 | 2 30 | 21 52 | 0 18 | 2 46 | 1 14 | 15 15 | 2 5 | 21 13 | 0 33 | 22 23 | 0 52 | 15 45 | 7 28 | 9 28 | 8 57 | 8 34 | 15 48 | 6 31 |
| T 7 | 22 43 | 12 3 | 4 49 | 25 44 | 2 15 | 8 56 | 2 31 | 22 0 | 0 19 | 2 49 | 1 14 | 15 16 | 2 5 | 21 12 | 0 33 | 22 23 | 0 52 | 15 45 | 7 28 | 9 25 | 8 56 | 8 32 | 15 47 | 6 31 |
| W 8 | 22 49 | 8 7 | 4 15 | 25 44 | 2 16 | 9 17 | 2 33 | 22 8 | 0 19 | 2 52 | 1 15 | 15 18 | 2 5 | 21 12 | 0 33 | 22 23 | 0 52 | 15 45 | 7 28 | 9 24 | 8 55 | 8 30 | 15 47 | 6 30 |
| T 9 | 22 55 | 3 44 | 3 25 | 25 43 | 2 16 | 9 39 | 2 35 | 22 15 | 0 20 | 2 55 | 1 15 | 15 20 | 2 5 | 21 11 | 0 33 | 22 23 | 0 52 | 15 45 | 7 28 | 9 23 | 8 54 | 8 28 | 15 47 | 6 30 |
| F 10 | 23 0 | 0n48 | 2 23 | 25 41 | 2 16 | 10 0 | 2 36 | 22 22 | 0 21 | 2 58 | 1 15 | 15 22 | 2 6 | 21 10 | 0 33 | 22 23 | 0 52 | 15 45 | 7 28 | 9 23 | 8 53 | 8 26 | 15 46 | 6 30 |
| S 11 | 23 5 | 5 14 | 1 14 | 25 36 | 2 16 | 10 21 | 2 37 | 22 29 | 0 21 | 3 1 | 1 15 | 15 23 | 2 6 | 21 10 | 0 33 | 22 23 | 0 52 | 15 45 | 7 28 | 9 24 | 8 51 | 8 25 | 15 46 | 6 30 |
| S 12 | 23 10 | 9 21 | 0 1 | 25 31 | 2 15 | 10 42 | 2 38 | 22 35 | 0 22 | 3 4 | 1 15 | 15 25 | 2 6 | 21 9 | 0 33 | 22 23 | 0 52 | 15 44 | 7 28 | 9 24 | 8 50 | 8 23 | 15 45 | 6 30 |
| M13 | 23 14 | 12 55 | 1s11 | 25 24 | 2 13 | 11 4 | 2 39 | 22 42 | 0 22 | 3 7 | 1 16 | 15 27 | 2 6 | 21 9 | 0 33 | 22 23 | 0 52 | 15 44 | 7 28 | 9 24 | 8 49 | 8 21 | 15 45 | 6 29 |
| T 14 | 23 17 | 15 47 | 2 17 | 25 15 | 2 11 | 11 25 | 2 40 | 22 48 | 0 23 | 3 10 | 1 16 | 15 28 | 2 6 | 21 8 | 0 33 | 22 22 | 0 51 | 15 44 | 7 28 | 9 22 | 8 48 | 8 19 | 15 44 | 6 29 |
| W15 | 23 20 | 17 46 | 3 16 | 25 5 | 2 8 | 11 46 | 2 40 | 22 54 | 0 24 | 3 12 | 1 16 | 15 30 | 2 6 | 21 7 | 0 33 | 22 22 | 0 51 | 15 44 | 7 28 | 9 20 | 8 47 | 8 18 | 15 44 | 6 29 |
| T 16 | 23 23 | 18 48 | 4 3 | 24 53 | 2 5 | 12 6 | 2 41 | 23 0 | 0 24 | 3 15 | 1 16 | 15 32 | 2 6 | 21 7 | 0 33 | 22 22 | 0 51 | 15 44 | 7 28 | 9 17 | 8 45 | 8 16 | 15 43 | 6 29 |
| F 17 | 23 25 | 18 52 | 4 37 | 24 40 | 2 0 | 12 27 | 2 41 | 23 5 | 0 25 | 3 18 | 1 16 | 15 33 | 2 6 | 21 6 | 0 33 | 22 22 | 0 51 | 15 44 | 7 28 | 9 13 | 8 44 | 8 14 | 15 43 | 6 29 |
| S 18 | 23 27 | 18 0 | 4 57 | 24 26 | 1 55 | 12 48 | 2 42 | 23 11 | 0 25 | 3 20 | 1 17 | 15 35 | 2 6 | 21 5 | 0 33 | 22 22 | 0 51 | 15 44 | 7 28 | 9 9 | 8 43 | 8 12 | 15 42 | 6 29 |
| S 19 | 23 28 | 16 17 | 5 3 | 24 10 | 1 49 | 13 8 | 2 42 | 23 16 | 0 26 | 3 23 | 1 17 | 15 36 | 2 6 | 21 5 | 0 33 | 22 22 | 0 51 | 15 44 | 7 27 | 9 4 | 8 42 | 8 10 | 15 42 | 6 28 |
| M20 | 23 29 | 13 53 | 4 54 | 23 54 | 1 42 | 13 28 | 2 42 | 23 21 | 0 27 | 3 25 | 1 17 | 15 38 | 2 6 | 21 4 | 0 33 | 22 22 | 0 51 | 15 44 | 7 27 | 9 0 | 8 41 | 8 9 | 15 41 | 6 28 |
| T 21 | 23 29 | 10 56 | 4 33 | 23 36 | 1 34 | 13 49 | 2 42 | 23 25 | 0 27 | 3 28 | 1 17 | 15 39 | 2 6 | 21 3 | 0 33 | 22 22 | 0 51 | 15 44 | 7 27 | 8 56 | 8 40 | 8 7 | 15 41 | 6 28 |
| W22 | 23 29 | 7 34 | 4 0 | 23 17 | 1 25 | 14 8 | 2 41 | 23 30 | 0 28 | 3 30 | 1 18 | 15 41 | 2 7 | 21 3 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 54 | 8 38 | 8 5 | 15 40 | 6 28 |
| T 23 | 23 28 | 3 54 | 3 17 | 22 58 | 1 15 | 14 28 | 2 41 | 23 34 | 0 28 | 3 32 | 1 18 | 15 42 | 2 7 | 21 2 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 52 | 8 37 | 8 3 | 15 40 | 6 28 |
| F 24 | 23 27 | 0 5 | 2 26 | 22 38 | 1 4 | 14 48 | 2 40 | 23 38 | 0 29 | 3 34 | 1 18 | 15 44 | 2 7 | 21 1 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 51 | 8 36 | 8 1 | 15 39 | 6 28 |
| S 25 | 23 25 | 3s46 | 1 27 | 22 18 | 0 51 | 15 7 | 2 40 | 23 41 | 0 30 | 3 36 | 1 18 | 15 45 | 2 7 | 21 1 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 51 | 8 35 | 8 0 | 15 38 | 6 28 |
| S 26 | 23 23 | 7 33 | 0 24 | 21 57 | 0 38 | 15 26 | 2 39 | 23 45 | 0 30 | 3 39 | 1 18 | 15 47 | 2 7 | 21 0 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 51 | 8 34 | 7 58 | 15 38 | 6 27 |
| M27 | 23 20 | 11 5 | 0n42 | 21 37 | 0 23 | 15 44 | 2 38 | 23 48 | 0 31 | 3 41 | 1 19 | 15 48 | 2 7 | 20 59 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 51 | 8 32 | 7 56 | 15 37 | 6 27 |
| T 28 | 23 17 | 14 13 | 1 48 | 21 18 | 0 8 | 16 3 | 2 37 | 23 51 | 0 31 | 3 43 | 1 19 | 15 50 | 2 7 | 20 59 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 50 | 8 31 | 7 54 | 15 36 | 6 27 |
| W29 | 23 14 | 16 43 | 2 50 | 20 59 | 0n 9 | 16 21 | 2 36 | 23 53 | 0 32 | 3 44 | 1 19 | 15 51 | 2 7 | 20 58 | 0 33 | 22 21 | 0 51 | 15 44 | 7 27 | 8 49 | 8 30 | 7 52 | 15 36 | 6 27 |
| T 30 | 23 10 | 18 22 | 3 45 | 20 41 | 0 27 | 16 39 | 2 35 | 23 56 | 0 33 | 3 46 | 1 19 | 15 52 | 2 7 | 20 57 | 0 33 | 22 20 | 0 51 | 15 44 | 7 27 | 8 46 | 8 29 | 7 50 | 15 35 | 6 27 |
| F 31 | 23s 5 | 18s56 | 4n27 | 20s24 | 0n45 | 16s56 | 2n34 | 23s58 | 0s33 | 3s48 | 1n20 | 15s54 | 2n 8 | 20s57 | 0s33 | 22s20 | 0n51 | 15n45 | 7s26 | 8s43 | 8s28 | 7n49 | 15s34 | 6n27 |

Julian Day Number = 2327697.5, Delta T = 35.76 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'26, Lahiri = 19°07'27Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## JANUARY 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 44 14 | 11♑11'56 | 9♑15 | 24°R45 | 27♏47 | 26♐31 | 12♎47 | 20♏44 | 28♑58 | 8♑48 | 20°R51 | 22°R 9 | 21♎37 | 29♌45 | 20♑19 | S 1 |
| S 2 | 6 48 11 | 12°13'08 | 24° 3 | 24♑12 | 28°57 | 27°16 | 12°51 | 20°49 | 29° 2 | 8°51 | 20♊50 | 21♎57 | 21°34 | 29°52 | 20°24 | S 2 |
| M 3 | 6 52 8 | 13°14'19 | 8♒59 | 23°27 | 0♐ 7 | 28° 1 | 12°56 | 20°55 | 29° 5 | 8°53 | 20°49 | 21°45 | 21°31 | 29°59 | 20°30 | M 3 |
| T 4 | 6 56 4 | 14°15'30 | 23°52 | 22°32 | 1°17 | 28°46 | 13° 0 | 21° 0 | 29° 9 | 8°55 | 20°48 | 21°36 | 21°28 | 0♍ 5 | 20°35 | T 4 |
| W 5 | 7 0 1 | 15°16'41 | 8♓34 | 21°28 | 2°28 | 29°31 | 13° 5 | 21° 5 | 29°12 | 8°57 | 20°47 | 21°29 | 21°25 | 0°12 | 20°40 | W 5 |
| T 6 | 7 3 57 | 16°17'50 | 23° 1 | 20°17 | 3°39 | 0♑16 | 13° 9 | 21°10 | 29°15 | 9° 0 | 20°46 | 21°26 | 21°21 | 0°19 | 20°46 | T 6 |
| F 7 | 7 7 54 | 17°19'00 | 7♈ 9 | 19° 1 | 4°49 | 1° 1 | 13°13 | 21°15 | 29°19 | 9° 2 | 20°45 | 21°24 | 21°18 | 0°25 | 20°51 | F 7 |
| S 8 | 7 11 50 | 18°20'08 | 20°58 | 17°42 | 6° 0 | 1°46 | 13°16 | 21°20 | 29°22 | 9° 4 | 20°44 | 21°24 | 21°15 | 0°32 | 20°57 | S 8 |
| S 9 | 7 15 47 | 19°21'16 | 4♉28 | 16°22 | 7°11 | 2°31 | 13°20 | 21°25 | 29°26 | 9° 6 | 20°43 | 21°24 | 21°12 | 0°39 | 21° 2 | S 9 |
| M10 | 7 19 43 | 20°22'23 | 17°42 | 15° 6 | 8°22 | 3°17 | 13°23 | 21°30 | 29°29 | 9° 9 | 20°41 | 21°22 | 21° 9 | 0°46 | 21° 7 | M10 |
| T 11 | 7 23 40 | 21°23'29 | 0♊41 | 13°53 | 9°33 | 4° 2 | 13°26 | 21°34 | 29°33 | 9°11 | 20°40 | 21°18 | 21° 5 | 0°52 | 21°13 | T 11 |
| W12 | 7 27 37 | 22°24'35 | 13°29 | 12°47 | 10°44 | 4°47 | 13°29 | 21°39 | 29°36 | 9°13 | 20°39 | 21°11 | 21° 2 | 0°59 | 21°18 | W12 |
| T 13 | 7 31 33 | 23°25'39 | 26° 6 | 11°49 | 11°55 | 5°32 | 13°32 | 21°44 | 29°40 | 9°15 | 20°39 | 21° 0 | 20°59 | 1° 6 | 21°24 | T 13 |
| F 14 | 7 35 30 | 24°26'43 | 8♋33 | 11° 0 | 13° 7 | 6°18 | 13°35 | 21°48 | 29°43 | 9°18 | 20°38 | 20°47 | 20°56 | 1°12 | 21°29 | F 14 |
| S 15 | 7 39 26 | 25°27'47 | 20°52 | 10°19 | 14°18 | 7° 3 | 13°37 | 21°53 | 29°47 | 9°20 | 20°37 | 20°33 | 20°53 | 1°19 | 21°34 | S 15 |
| S 16 | 7 43 23 | 26°28'49 | 3♌ 1 | 9°48 | 15°30 | 7°48 | 13°40 | 21°57 | 29°50 | 9°22 | 20°36 | 20°18 | 20°50 | 1°26 | 21°40 | S 16 |
| M17 | 7 47 19 | 27°29'51 | 15° 3 | 9°26 | 16°41 | 8°34 | 13°42 | 22° 1 | 29°54 | 9°24 | 20°35 | 20° 4 | 20°46 | 1°32 | 21°45 | M17 |
| T 18 | 7 51 16 | 28°30'53 | 26°58 | 9°13 | 17°53 | 9°19 | 13°44 | 22° 5 | 29°57 | 9°26 | 20°34 | 19°52 | 20°43 | 1°39 | 21°51 | T 18 |
| W19 | 7 55 12 | 29°31'53 | 8♍48 | 9°D 9 | 19° 5 | 10° 5 | 13°45 | 22° 9 | 0♒ 1 | 9°28 | 20°33 | 19°43 | 20°40 | 1°46 | 21°56 | W19 |
| T 20 | 7 59 9 | 0♒32'53 | 20°36 | 9°12 | 20°16 | 10°50 | 13°47 | 22°13 | 0° 4 | 9°31 | 20°32 | 19°37 | 20°37 | 1°52 | 22° 1 | T 20 |
| F 21 | 8 3 6 | 1°33'52 | 2♎26 | 9°23 | 21°28 | 11°36 | 13°48 | 22°17 | 0° 8 | 9°33 | 20°31 | 19°33 | 20°34 | 1°59 | 22° 7 | F 21 |
| S 22 | 8 7 2 | 2°34'51 | 14°21 | 9°41 | 22°40 | 12°22 | 13°50 | 22°21 | 0°11 | 9°35 | 20°30 | 19°32 | 20°30 | 2° 6 | 22°12 | S 22 |
| S 23 | 8 10 59 | 3°35'48 | 26°28 | 10° 6 | 23°52 | 13° 7 | 13°51 | 22°25 | 0°15 | 9°37 | 20°30 | 19°D32 | 20°27 | 2°13 | 22°17 | S 23 |
| M24 | 8 14 55 | 4°36'46 | 8♏50 | 10°36 | 25° 4 | 13°53 | 13°51 | 22°29 | 0°18 | 9°39 | 20°29 | 19°R32 | 20°24 | 2°19 | 22°23 | M24 |
| T 25 | 8 18 52 | 5°37'42 | 21°35 | 11°12 | 26°17 | 14°39 | 13°52 | 22°32 | 0°22 | 9°41 | 20°28 | 19°31 | 20°21 | 2°26 | 22°28 | T 25 |
| W26 | 8 22 48 | 6°38'38 | 4♐45 | 11°52 | 27°29 | 15°24 | 13°52 | 22°36 | 0°26 | 9°43 | 20°27 | 19°28 | 20°18 | 2°33 | 22°33 | W26 |
| T 27 | 8 26 45 | 7°39'33 | 18°25 | 12°37 | 28°41 | 16°10 | 13°53 | 22°39 | 0°29 | 9°45 | 20°26 | 19°22 | 20°15 | 2°39 | 22°38 | T 27 |
| F 28 | 8 30 41 | 8°40'27 | 2♑35 | 13°25 | 29°53 | 16°56 | 13°R53 | 22°43 | 0°33 | 9°47 | 20°26 | 19°14 | 20°11 | 2°46 | 22°44 | F 28 |
| S 29 | 8 34 38 | 9°41'21 | 17°13 | 14°18 | 1♑ 6 | 17°42 | 13°53 | 22°46 | 0°36 | 9°50 | 20°25 | 19° 4 | 20° 8 | 2°53 | 22°49 | S 29 |
| S 30 | 8 38 35 | 10°42'13 | 2♒13 | 15°13 | 2°18 | 18°28 | 13°52 | 22°49 | 0°39 | 9°52 | 20°24 | 18°53 | 20° 5 | 2°59 | 22°54 | S 30 |
| M31 | 8 42 31 | 11♒43'04 | 17♒25 | 16♑12 | 3♑30 | 19♑14 | 13♎52 | 22♏52 | 0♒43 | 9♑54 | 20♊23 | 18♎43 | 20♎ 2 | 3♍ 6 | 22♑59 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 0 | 18s17 | 4n53 | 20s 9 | 1n 4 | 17s13 | 2n32 | 24s 0 | 0s34 | 3s50 | 1n20 | 15s55 | 2n 8 | 20s56 | 0s33 | 22s20 | 0n51 | 15n45 | 7s26 | 8s38 | 8s27 | 7n47 | 15s34 | 6n27 |
| S 2 | 22 55 | 16 24 | 5 0 | 19 56 | 1 24 | 17 30 | 2 31 | 24 2 | 0 34 | 3 51 | 1 20 | 15 56 | 2 8 | 20 55 | 0 33 | 22 20 | 0 51 | 15 45 | 7 26 | 8 34 | 8 25 | 7 45 | 15 33 | 6 27 |
| M 3 | 22 49 | 13 25 | 4 47 | 19 45 | 1 43 | 17 47 | 2 29 | 24 3 | 0 35 | 3 53 | 1 20 | 15 57 | 2 8 | 20 55 | 0 33 | 22 20 | 0 51 | 15 45 | 7 26 | 8 30 | 8 24 | 7 43 | 15 32 | 6 27 |
| T 4 | 22 43 | 9 35 | 4 15 | 19 36 | 2 1 | 18 3 | 2 28 | 24 4 | 0 36 | 3 54 | 1 21 | 15 59 | 2 8 | 20 54 | 0 33 | 22 20 | 0 51 | 15 45 | 7 26 | 8 26 | 8 23 | 7 41 | 15 32 | 6 27 |
| W 5 | 22 36 | 5 11 | 3 26 | 19 28 | 2 19 | 18 18 | 2 26 | 24 5 | 0 36 | 3 56 | 1 21 | 16 0 | 2 8 | 20 53 | 0 33 | 22 20 | 0 51 | 15 45 | 7 26 | 8 24 | 8 22 | 7 40 | 15 31 | 6 27 |
| T 6 | 22 29 | 0 34 | 2 24 | 19 23 | 2 35 | 18 33 | 2 24 | 24 6 | 0 37 | 3 57 | 1 21 | 16 1 | 2 8 | 20 52 | 0 33 | 22 19 | 0 51 | 15 45 | 7 26 | 8 22 | 8 21 | 7 38 | 15 30 | 6 27 |
| F 7 | 22 21 | 3n59 | 1 15 | 19 20 | 2 50 | 18 48 | 2 22 | 24 6 | 0 37 | 3 58 | 1 21 | 16 2 | 2 8 | 20 52 | 0 33 | 22 19 | 0 51 | 15 45 | 7 26 | 8 22 | 8 19 | 7 36 | 15 29 | 6 27 |
| S 8 | 22 13 | 8 14 | 0 2 | 19 18 | 3 2 | 19 3 | 2 20 | 24 6 | 0 38 | 4 0 | 1 22 | 16 3 | 2 9 | 20 51 | 0 33 | 22 19 | 0 51 | 15 45 | 7 26 | 8 22 | 8 18 | 7 34 | 15 28 | 6 27 |
| S 9 | 22 5 | 11 57 | 1s 8 | 19 18 | 3 12 | 19 17 | 2 18 | 24 6 | 0 39 | 4 1 | 1 22 | 16 4 | 2 9 | 20 50 | 0 33 | 22 19 | 0 51 | 15 45 | 7 25 | 8 22 | 8 17 | 7 32 | 15 28 | 6 27 |
| M10 | 21 56 | 14 59 | 2 14 | 19 19 | 3 20 | 19 30 | 2 16 | 24 6 | 0 39 | 4 2 | 1 22 | 16 6 | 2 9 | 20 49 | 0 33 | 22 19 | 0 51 | 15 45 | 7 25 | 8 21 | 8 16 | 7 31 | 15 27 | 6 27 |
| T 11 | 21 47 | 17 12 | 3 11 | 19 22 | 3 25 | 19 43 | 2 14 | 24 5 | 0 40 | 4 3 | 1 23 | 16 7 | 2 9 | 20 49 | 0 33 | 22 19 | 0 51 | 15 45 | 7 25 | 8 19 | 8 15 | 7 29 | 15 26 | 6 27 |
| W12 | 21 37 | 18 31 | 3 58 | 19 26 | 3 27 | 19 55 | 2 11 | 24 4 | 0 40 | 4 4 | 1 23 | 16 8 | 2 9 | 20 48 | 0 33 | 22 19 | 0 51 | 15 45 | 7 25 | 8 17 | 8 13 | 7 27 | 15 25 | 6 27 |
| T 13 | 21 27 | 18 53 | 4 32 | 19 31 | 3 27 | 20 7 | 2 9 | 24 3 | 0 41 | 4 5 | 1 23 | 16 9 | 2 9 | 20 47 | 0 33 | 22 18 | 0 51 | 15 45 | 7 25 | 8 13 | 8 12 | 7 25 | 15 24 | 6 27 |
| F 14 | 21 16 | 18 20 | 4 53 | 19 37 | 3 25 | 20 19 | 2 7 | 24 1 | 0 41 | 4 5 | 1 23 | 16 10 | 2 10 | 20 47 | 0 33 | 22 18 | 0 51 | 15 45 | 7 25 | 8 8 | 8 11 | 7 23 | 15 24 | 6 27 |
| S 15 | 21 5 | 16 55 | 5 0 | 19 44 | 3 21 | 20 30 | 2 4 | 24 0 | 0 42 | 4 6 | 1 24 | 16 11 | 2 10 | 20 46 | 0 33 | 22 18 | 0 51 | 15 45 | 7 25 | 8 2 | 8 10 | 7 22 | 15 23 | 6 27 |
| S 16 | 20 54 | 14 46 | 4 52 | 19 51 | 3 16 | 20 40 | 2 2 | 23 58 | 0 43 | 4 7 | 1 24 | 16 12 | 2 10 | 20 45 | 0 33 | 22 18 | 0 51 | 15 45 | 7 24 | 7 57 | 8 9 | 7 20 | 15 22 | 6 27 |
| M17 | 20 42 | 12 1 | 4 32 | 20 0 | 3 9 | 20 50 | 1 59 | 23 55 | 0 43 | 4 7 | 1 24 | 16 13 | 2 10 | 20 44 | 0 33 | 22 18 | 0 51 | 15 46 | 7 24 | 7 52 | 8 7 | 7 18 | 15 21 | 6 27 |
| T 18 | 20 30 | 8 47 | 4 0 | 20 8 | 3 2 | 21 0 | 1 56 | 23 53 | 0 44 | 4 8 | 1 24 | 16 14 | 2 10 | 20 44 | 0 33 | 22 18 | 0 51 | 15 46 | 7 24 | 7 47 | 8 6 | 7 16 | 15 20 | 6 27 |
| W19 | 20 17 | 5 14 | 3 18 | 20 17 | 2 53 | 21 9 | 1 54 | 23 50 | 0 44 | 4 8 | 1 25 | 16 14 | 2 10 | 20 43 | 0 33 | 22 17 | 0 51 | 15 46 | 7 24 | 7 44 | 8 5 | 7 14 | 15 19 | 6 27 |
| T 20 | 20 4 | 1 29 | 2 27 | 20 26 | 2 44 | 21 17 | 1 51 | 23 47 | 0 45 | 4 9 | 1 25 | 16 15 | 2 10 | 20 42 | 0 33 | 22 17 | 0 51 | 15 46 | 7 24 | 7 41 | 8 4 | 7 12 | 15 18 | 6 27 |
| F 21 | 19 51 | 2s20 | 1 29 | 20 35 | 2 34 | 21 25 | 1 48 | 23 44 | 0 45 | 4 9 | 1 25 | 16 16 | 2 11 | 20 41 | 0 33 | 22 17 | 0 51 | 15 46 | 7 24 | 7 40 | 8 3 | 7 11 | 15 17 | 6 27 |
| S 22 | 19 37 | 6 5 | 0 27 | 20 44 | 2 24 | 21 32 | 1 45 | 23 40 | 0 46 | 4 9 | 1 25 | 16 17 | 2 11 | 20 41 | 0 33 | 22 17 | 0 51 | 15 46 | 7 24 | 7 39 | 8 1 | 7 9 | 15 16 | 6 27 |
| S 23 | 19 23 | 9 39 | 0n37 | 20 53 | 2 13 | 21 38 | 1 42 | 23 36 | 0 47 | 4 9 | 1 26 | 16 18 | 2 11 | 20 40 | 0 33 | 22 17 | 0 51 | 15 46 | 7 23 | 7 39 | 8 0 | 7 7 | 15 16 | 6 27 |
| M24 | 19 9 | 12 53 | 1 41 | 21 1 | 2 3 | 21 44 | 1 39 | 23 32 | 0 47 | 4 9 | 1 26 | 16 18 | 2 11 | 20 39 | 0 33 | 22 17 | 0 51 | 15 46 | 7 23 | 7 39 | 7 59 | 7 5 | 15 15 | 6 28 |
| T 25 | 18 54 | 15 35 | 2 41 | 21 9 | 1 52 | 21 50 | 1 36 | 23 28 | 0 48 | 4 9 | 1 26 | 16 19 | 2 11 | 20 38 | 0 33 | 22 17 | 0 51 | 15 46 | 7 23 | 7 39 | 7 58 | 7 3 | 15 14 | 6 28 |
| W26 | 18 39 | 17 35 | 3 36 | 21 16 | 1 41 | 21 54 | 1 33 | 23 23 | 0 48 | 4 9 | 1 26 | 16 20 | 2 11 | 20 38 | 0 33 | 22 16 | 0 51 | 15 46 | 7 23 | 7 38 | 7 57 | 7 2 | 15 13 | 6 28 |
| T 27 | 18 23 | 18 40 | 4 20 | 21 23 | 1 30 | 21 58 | 1 30 | 23 18 | 0 49 | 4 9 | 1 27 | 16 21 | 2 12 | 20 37 | 0 33 | 22 16 | 0 51 | 15 47 | 7 23 | 7 36 | 7 55 | 7 0 | 15 12 | 6 28 |
| F 28 | 18 7 | 18 37 | 4 50 | 21 29 | 1 19 | 22 2 | 1 27 | 23 13 | 0 49 | 4 9 | 1 27 | 16 21 | 2 12 | 20 36 | 0 33 | 22 16 | 0 51 | 15 47 | 7 22 | 7 33 | 7 54 | 6 58 | 15 11 | 6 28 |
| S 29 | 17 51 | 17 22 | 5 2 | 21 34 | 1 9 | 22 5 | 1 24 | 23 8 | 0 50 | 4 9 | 1 27 | 16 22 | 2 12 | 20 35 | 0 33 | 22 16 | 0 51 | 15 47 | 7 22 | 7 29 | 7 53 | 6 56 | 15 10 | 6 28 |
| S 30 | 17 35 | 14 55 | 4 54 | 21 39 | 0 58 | 22 7 | 1 21 | 23 2 | 0 50 | 4 8 | 1 28 | 16 23 | 2 12 | 20 35 | 0 33 | 22 16 | 0 51 | 15 47 | 7 22 | 7 25 | 7 52 | 6 54 | 15 9 | 6 28 |
| M31 | 17s18 | 11s25 | 4n26 | 21s42 | 0n48 | 22s 9 | 1n17 | 22s56 | 0s51 | 4s 8 | 1n28 | 16s23 | 2n12 | 20s34 | 0s33 | 22s16 | 0n51 | 15n47 | 7s22 | 7s21 | 7s51 | 6n52 | 15s 8 | 6n29 |

Julian Day Number = 2327728.5, Delta T = 35.70 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'31, Lahiri = 19°07'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## FEBRUARY 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 46 28 | 12♒43'54 | 2♓38 | 17♉14 | 4♉43 | 20♉ 0 | 13°R51 | 22♏55 | 0♒46 | 9♉56 | 20°R23 | 18°R34 | 19♎59 | 3♍13 | 23♉ 4 | T 1 |
| W 2 | 8 50 24 | 13°44'42 | 17°43 | 18°17 | 5°55 | 20°46 | 13♎50 | 22°58 | 0°50 | 9°58 | 20♊22 | 18♎28 | 19°56 | 3°19 | 23°10 | W 2 |
| T 3 | 8 54 21 | 14°45'29 | 2♈30 | 19°24 | 7° 8 | 21°32 | 13°49 | 23° 1 | 0°53 | 9°59 | 20°22 | 18°25 | 19°52 | 3°26 | 23°15 | T 3 |
| F 4 | 8 58 17 | 15°46'14 | 16°54 | 20°32 | 8°21 | 22°18 | 13°48 | 23° 3 | 0°57 | 10° 1 | 20°21 | 18°D24 | 19°49 | 3°33 | 23°20 | F 4 |
| S 5 | 9 2 14 | 16°46'58 | 0♉54 | 21°43 | 9°33 | 23° 4 | 13°46 | 23° 6 | 1° 0 | 10° 3 | 20°20 | 18°24 | 19°46 | 3°39 | 23°25 | S 5 |
| S 6 | 9 6 10 | 17°47'40 | 14°28 | 22°55 | 10°46 | 23°50 | 13°44 | 23° 8 | 1° 4 | 10° 5 | 20°20 | 18°R25 | 19°43 | 3°46 | 23°30 | S 6 |
| M 7 | 9 10 7 | 18°48'21 | 27°41 | 24° 9 | 11°59 | 24°36 | 13°43 | 23°11 | 1° 7 | 10° 7 | 20°19 | 18°25 | 19°40 | 3°53 | 23°35 | M 7 |
| T 8 | 9 14 4 | 19°48'59 | 10♊34 | 25°25 | 13°11 | 25°22 | 13°41 | 23°13 | 1°10 | 10° 9 | 20°19 | 18°22 | 19°36 | 4° 0 | 23°40 | T 8 |
| W 9 | 9 18 0 | 20°49'36 | 23°10 | 26°42 | 14°24 | 26° 8 | 13°38 | 23°15 | 1°14 | 10°11 | 20°18 | 18°18 | 19°33 | 4° 6 | 23°45 | W 9 |
| T 10 | 9 21 57 | 21°50'12 | 5♋34 | 28° 1 | 15°37 | 26°54 | 13°36 | 23°17 | 1°17 | 10°13 | 20°18 | 18°11 | 19°30 | 4°13 | 23°50 | T 10 |
| F 11 | 9 25 53 | 22°50'45 | 17°48 | 29°21 | 16°50 | 27°41 | 13°33 | 23°19 | 1°20 | 10°14 | 20°17 | 18° 1 | 19°27 | 4°20 | 23°55 | F 11 |
| S 12 | 9 29 50 | 23°51'17 | 29°54 | 0♒42 | 18° 3 | 28°27 | 13°31 | 23°21 | 1°24 | 10°16 | 20°17 | 17°51 | 19°24 | 4°26 | 23°59 | S 12 |
| S 13 | 9 33 46 | 24°51'48 | 11♌53 | 2° 5 | 19°16 | 29°13 | 13°28 | 23°23 | 1°27 | 10°18 | 20°16 | 17°40 | 19°21 | 4°33 | 24° 4 | S 13 |
| M14 | 9 37 43 | 25°52'16 | 23°48 | 3°29 | 20°29 | 29°59 | 13°24 | 23°25 | 1°30 | 10°20 | 20°16 | 17°30 | 19°17 | 4°40 | 24° 9 | M14 |
| T 15 | 9 41 39 | 26°52'43 | 5♍39 | 4°54 | 21°42 | 0♒46 | 13°21 | 23°27 | 1°34 | 10°21 | 20°15 | 17°21 | 19°14 | 4°46 | 24°14 | T 15 |
| W16 | 9 45 36 | 27°53'08 | 17°28 | 6°20 | 22°55 | 1°32 | 13°18 | 23°28 | 1°37 | 10°23 | 20°15 | 17°15 | 19°11 | 4°53 | 24°19 | W16 |
| T 17 | 9 49 32 | 28°53'32 | 29°18 | 7°47 | 24° 8 | 2°18 | 13°14 | 23°30 | 1°40 | 10°25 | 20°15 | 17°10 | 19° 8 | 5° 0 | 24°23 | T 17 |
| F 18 | 9 53 29 | 29°53'54 | 11♎10 | 9°15 | 25°21 | 3° 5 | 13°10 | 23°31 | 1°43 | 10°26 | 20°14 | 17° 9 | 19° 5 | 5° 6 | 24°28 | F 18 |
| S 19 | 9 57 26 | 0♓54'15 | 23° 9 | 10°45 | 26°34 | 3°51 | 13° 6 | 23°32 | 1°47 | 10°28 | 20°14 | 17°D 8 | 19° 2 | 5°13 | 24°32 | S 19 |
| S 20 | 10 1 22 | 1°54'34 | 5♏17 | 12°16 | 27°47 | 4°38 | 13° 2 | 23°33 | 1°50 | 10°30 | 20°14 | 17°10 | 18°58 | 5°20 | 24°37 | S 20 |
| M21 | 10 5 19 | 2°54'52 | 17°40 | 13°47 | 29° 0 | 5°24 | 12°58 | 23°34 | 1°53 | 10°31 | 20°14 | 17°11 | 18°55 | 5°26 | 24°42 | M21 |
| T 22 | 10 9 15 | 3°55'09 | 0♐21 | 15°20 | 0♒13 | 6°11 | 12°53 | 23°35 | 1°56 | 10°33 | 20°13 | 17°R12 | 18°52 | 5°33 | 24°46 | T 22 |
| W23 | 10 13 12 | 4°55'23 | 13°26 | 16°54 | 1°26 | 6°57 | 12°48 | 23°36 | 1°59 | 10°34 | 20°13 | 17°12 | 18°49 | 5°40 | 24°51 | W23 |
| T 24 | 10 17 8 | 5°55'37 | 26°57 | 18°28 | 2°39 | 7°44 | 12°44 | 23°37 | 2° 2 | 10°36 | 20°13 | 17°10 | 18°46 | 5°46 | 24°55 | T 24 |
| F 25 | 10 21 5 | 6°55'49 | 10♑57 | 20° 4 | 3°53 | 8°30 | 12°39 | 23°37 | 2° 5 | 10°37 | 20°13 | 17° 6 | 18°42 | 5°53 | 24°59 | F 25 |
| S 26 | 10 25 1 | 7°55'59 | 25°25 | 21°41 | 5° 6 | 9°17 | 12°33 | 23°38 | 2° 8 | 10°39 | 20°13 | 17° 1 | 18°39 | 6° 0 | 25° 4 | S 26 |
| S 27 | 10 28 58 | 8°56'08 | 10♒17 | 23°19 | 6°19 | 10° 3 | 12°28 | 23°38 | 2°11 | 10°40 | 20°12 | 16°55 | 18°36 | 6° 7 | 25° 8 | S 27 |
| M28 | 10 32 55 | 9♓56'15 | 25♒26 | 24♒58 | 7♒32 | 10♒50 | 12♎23 | 23♏38 | 2♒14 | 10♉42 | 20♊12 | 16♎49 | 18♎33 | 6♍13 | 25♉12 | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s 1 | 7s 9 | 3n38 | 21s44 | 0n38 | 22s10 | 1n14 | 22s50 | 0s51 | 4s 7 | 1n28 | 16s24 | 2n13 | 20s33 | 0s33 | 22s15 | 0n51 | 15n47 | 7s22 | 7s17 | 7s49 | 6n51 | 15s 7 | 6n29 |
| W 2 | 16 44 | 2 28 | 2 36 | 21 46 | 0 28 | 22 10 | 1 11 | 22 44 | 0 52 | 4 7 | 1 28 | 16 24 | 2 13 | 20 32 | 0 33 | 22 15 | 0 51 | 15 47 | 7 22 | 7 15 | 7 48 | 6 49 | 15 6 | 6 29 |
| T 3 | 16 26 | 2n17 | 1 24 | 21 46 | 0 19 | 22 10 | 1 8 | 22 37 | 0 52 | 4 6 | 1 29 | 16 25 | 2 13 | 20 32 | 0 33 | 22 15 | 0 51 | 15 47 | 7 21 | 7 14 | 7 47 | 6 47 | 15 5 | 6 29 |
| F 4 | 16 8 | 6 47 | 0 8 | 21 46 | 0 9 | 22 9 | 1 4 | 22 30 | 0 53 | 4 5 | 1 29 | 16 25 | 2 13 | 20 31 | 0 33 | 22 15 | 0 51 | 15 48 | 7 21 | 7 13 | 7 46 | 6 45 | 15 4 | 6 29 |
| S 5 | 15 50 | 10 46 | 1s 6 | 21 44 | 0s 0 | 22 7 | 1 1 | 22 23 | 0 53 | 4 4 | 1 29 | 16 26 | 2 13 | 20 30 | 0 33 | 22 15 | 0 51 | 15 48 | 7 21 | 7 14 | 7 45 | 6 43 | 15 3 | 6 29 |
| S 6 | 15 32 | 14 4 | 2 15 | 21 41 | 0 9 | 22 5 | 0 58 | 22 16 | 0 54 | 4 4 | 1 29 | 16 26 | 2 13 | 20 29 | 0 33 | 22 15 | 0 51 | 15 48 | 7 21 | 7 14 | 7 43 | 6 41 | 15 2 | 6 30 |
| M 7 | 15 13 | 16 32 | 3 14 | 21 37 | 0 18 | 22 2 | 0 54 | 22 8 | 0 54 | 4 3 | 1 30 | 16 27 | 2 14 | 20 29 | 0 33 | 22 15 | 0 51 | 15 48 | 7 21 | 7 14 | 7 42 | 6 40 | 15 1 | 6 30 |
| T 8 | 14 54 | 18 5 | 4 2 | 21 31 | 0 26 | 21 59 | 0 51 | 22 0 | 0 55 | 4 2 | 1 30 | 16 27 | 2 14 | 20 28 | 0 33 | 22 14 | 0 51 | 15 48 | 7 20 | 7 13 | 7 41 | 6 38 | 15 0 | 6 30 |
| W 9 | 14 35 | 18 42 | 4 37 | 21 25 | 0 34 | 21 55 | 0 48 | 21 52 | 0 55 | 4 0 | 1 30 | 16 27 | 2 14 | 20 27 | 0 33 | 22 14 | 0 51 | 15 48 | 7 20 | 7 11 | 7 40 | 6 36 | 14 59 | 6 30 |
| T 10 | 14 15 | 18 24 | 4 58 | 21 17 | 0 42 | 21 50 | 0 44 | 21 44 | 0 56 | 3 59 | 1 30 | 16 28 | 2 14 | 20 27 | 0 33 | 22 14 | 0 51 | 15 49 | 7 20 | 7 8 | 7 39 | 6 34 | 14 58 | 6 30 |
| F 11 | 13 55 | 17 15 | 5 5 | 21 8 | 0 50 | 21 44 | 0 41 | 21 35 | 0 56 | 3 58 | 1 31 | 16 28 | 2 14 | 20 26 | 0 33 | 22 14 | 0 51 | 15 49 | 7 20 | 7 5 | 7 37 | 6 32 | 14 57 | 6 31 |
| S 12 | 13 36 | 15 21 | 4 59 | 20 58 | 0 57 | 21 38 | 0 38 | 21 26 | 0 57 | 3 57 | 1 31 | 16 28 | 2 15 | 20 25 | 0 33 | 22 14 | 0 51 | 15 49 | 7 20 | 7 1 | 7 36 | 6 30 | 14 56 | 6 31 |
| S 13 | 13 15 | 12 47 | 4 39 | 20 46 | 1 4 | 21 32 | 0 35 | 21 17 | 0 57 | 3 55 | 1 31 | 16 29 | 2 15 | 20 24 | 0 33 | 22 14 | 0 51 | 15 49 | 7 20 | 6 57 | 7 35 | 6 29 | 14 55 | 6 31 |
| M14 | 12 55 | 9 44 | 4 7 | 20 33 | 1 10 | 21 24 | 0 31 | 21 8 | 0 58 | 3 54 | 1 31 | 16 29 | 2 15 | 20 24 | 0 33 | 22 14 | 0 51 | 15 49 | 7 19 | 6 53 | 7 34 | 6 27 | 14 54 | 6 31 |
| T 15 | 12 35 | 6 17 | 3 24 | 20 19 | 1 17 | 21 16 | 0 28 | 20 58 | 0 58 | 3 52 | 1 32 | 16 29 | 2 15 | 20 23 | 0 33 | 22 13 | 0 51 | 15 49 | 7 19 | 6 50 | 7 33 | 6 25 | 14 52 | 6 32 |
| W16 | 12 14 | 2 37 | 2 33 | 20 4 | 1 23 | 21 8 | 0 25 | 20 49 | 0 59 | 3 51 | 1 32 | 16 29 | 2 15 | 20 22 | 0 33 | 22 13 | 0 51 | 15 50 | 7 19 | 6 47 | 7 31 | 6 23 | 14 51 | 6 32 |
| T 17 | 11 53 | 1s10 | 1 35 | 19 47 | 1 29 | 20 58 | 0 21 | 20 39 | 0 59 | 3 49 | 1 32 | 16 29 | 2 16 | 20 22 | 0 33 | 22 13 | 0 51 | 15 50 | 7 19 | 6 45 | 7 30 | 6 21 | 14 50 | 6 32 |
| F 18 | 11 32 | 4 55 | 0 32 | 19 29 | 1 34 | 20 49 | 0 18 | 20 28 | 1 0 | 3 48 | 1 32 | 16 30 | 2 16 | 20 21 | 0 33 | 22 13 | 0 51 | 15 50 | 7 19 | 6 45 | 7 29 | 6 19 | 14 49 | 6 33 |
| S 19 | 11 10 | 8 31 | 0n33 | 19 9 | 1 39 | 20 38 | 0 15 | 20 18 | 1 0 | 3 46 | 1 32 | 16 30 | 2 16 | 20 20 | 0 33 | 22 13 | 0 51 | 15 50 | 7 18 | 6 45 | 7 28 | 6 18 | 14 48 | 6 33 |
| S 20 | 10 49 | 11 47 | 1 37 | 18 48 | 1 44 | 20 27 | 0 12 | 20 7 | 1 1 | 3 44 | 1 33 | 16 30 | 2 16 | 20 19 | 0 33 | 22 13 | 0 51 | 15 50 | 7 18 | 6 45 | 7 27 | 6 16 | 14 47 | 6 33 |
| M21 | 10 27 | 14 36 | 2 38 | 18 26 | 1 48 | 20 16 | 0 8 | 19 56 | 1 1 | 3 42 | 1 33 | 16 30 | 2 16 | 20 19 | 0 33 | 22 13 | 0 51 | 15 50 | 7 18 | 6 46 | 7 25 | 6 14 | 14 46 | 6 33 |
| T 22 | 10 5 | 16 47 | 3 33 | 18 3 | 1 52 | 20 3 | 0 5 | 19 45 | 1 2 | 3 40 | 1 33 | 16 30 | 2 17 | 20 18 | 0 33 | 22 12 | 0 51 | 15 51 | 7 18 | 6 46 | 7 24 | 6 12 | 14 45 | 6 34 |
| W23 | 9 43 | 18 10 | 4 19 | 17 38 | 1 56 | 19 50 | 0 2 | 19 34 | 1 2 | 3 38 | 1 33 | 16 30 | 2 17 | 20 17 | 0 33 | 22 12 | 0 51 | 15 51 | 7 17 | 6 46 | 7 23 | 6 10 | 14 44 | 6 34 |
| T 24 | 9 21 | 18 35 | 4 52 | 17 12 | 1 59 | 19 37 | 0s 1 | 19 23 | 1 2 | 3 36 | 1 33 | 16 30 | 2 17 | 20 17 | 0 33 | 22 12 | 0 51 | 15 51 | 7 17 | 6 45 | 7 22 | 6 8 | 14 43 | 6 34 |
| F 25 | 8 59 | 17 54 | 5 9 | 16 44 | 2 2 | 19 23 | 0 4 | 19 11 | 1 3 | 3 34 | 1 34 | 16 30 | 2 17 | 20 16 | 0 33 | 22 12 | 0 51 | 15 51 | 7 17 | 6 44 | 7 21 | 6 7 | 14 42 | 6 35 |
| S 26 | 8 37 | 16 3 | 5 7 | 16 16 | 2 4 | 19 9 | 0 7 | 18 59 | 1 3 | 3 32 | 1 34 | 16 30 | 2 17 | 20 15 | 0 33 | 22 12 | 0 51 | 15 51 | 7 17 | 6 42 | 7 19 | 6 5 | 14 41 | 6 35 |
| S 27 | 8 14 | 13 7 | 4 45 | 15 45 | 2 6 | 18 54 | 0 10 | 18 47 | 1 4 | 3 30 | 1 34 | 16 30 | 2 18 | 20 15 | 0 33 | 22 12 | 0 52 | 15 52 | 7 17 | 6 39 | 7 18 | 6 3 | 14 40 | 6 35 |
| M28 | 7s51 | 9s15 | 4n 3 | 15s14 | 2s 8 | 18s38 | 0s13 | 18s35 | 1s 4 | 3s27 | 1n34 | 16s29 | 2n18 | 20s14 | 0s33 | 22s12 | 0n52 | 15n52 | 7s16 | 6s37 | 7s17 | 6n 1 | 14s39 | 6n36 |

Julian Day Number = 2327759.5, Delta T = 35.64 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'35, Lahiri = 19°07'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## MARCH 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 36 51 | 10♓56'20 | 10♓42 | 26♒38 | 8♒46 | 11♒36 | 12°R17 | 23♏39 | 2♒17 | 10♑43 | 20°R12 | 16°R45 | 18♎30 | 6♍20 | 25♑16 | T 1 |
| W 2 | 10 40 48 | 11°56'23 | 25°56 | 28°19 | 9°59 | 12°23 | 12♎11 | 23°R39 | 2°20 | 10°44 | 20♊12 | 16♎41 | 18°27 | 6°27 | 25°21 | W 2 |
| T 3 | 10 44 44 | 12°56'24 | 10♈56 | 0♓ 2 | 11°12 | 13° 9 | 12° 6 | 23°39 | 2°23 | 10°46 | 20°12 | 16°D40 | 18°23 | 6°33 | 25°25 | T 3 |
| F 4 | 10 48 41 | 13°56'24 | 25°35 | 1°45 | 12°26 | 13°56 | 12° 0 | 23°39 | 2°26 | 10°47 | 20°D12 | 16°40 | 18°20 | 6°40 | 25°29 | F 4 |
| S 5 | 10 52 37 | 14°56'21 | 9♉49 | 3°30 | 13°39 | 14°43 | 11°54 | 23°38 | 2°29 | 10°48 | 20°12 | 16°41 | 18°17 | 6°47 | 25°33 | S 5 |
| S 6 | 10 56 34 | 15°56'16 | 23°36 | 5°15 | 14°52 | 15°29 | 11°47 | 23°38 | 2°31 | 10°49 | 20°12 | 16°43 | 18°14 | 6°53 | 25°37 | S 6 |
| M 7 | 11 0 30 | 16°56'08 | 6♊56 | 7° 2 | 16° 6 | 16°16 | 11°41 | 23°38 | 2°34 | 10°50 | 20°12 | 16°44 | 18°11 | 7° 0 | 25°40 | M 7 |
| T 8 | 11 4 27 | 17°55'59 | 19°52 | 8°50 | 17°19 | 17° 3 | 11°35 | 23°37 | 2°37 | 10°52 | 20°12 | 16°R45 | 18° 8 | 7° 7 | 25°44 | T 8 |
| W 9 | 11 8 24 | 18°55'47 | 2♋28 | 10°39 | 18°32 | 17°49 | 11°28 | 23°37 | 2°40 | 10°53 | 20°12 | 16°44 | 18° 4 | 7°13 | 25°48 | W 9 |
| T 10 | 11 12 20 | 19°55'33 | 14°48 | 12°30 | 19°46 | 18°36 | 11°21 | 23°36 | 2°42 | 10°54 | 20°13 | 16°42 | 18° 1 | 7°20 | 25°52 | T 10 |
| F 11 | 11 16 17 | 20°55'16 | 26°56 | 14°21 | 20°59 | 19°23 | 11°15 | 23°35 | 2°45 | 10°55 | 20°13 | 16°38 | 17°58 | 7°27 | 25°55 | F 11 |
| S 12 | 11 20 13 | 21°54'58 | 8♌54 | 16°14 | 22°12 | 20° 9 | 11° 8 | 23°34 | 2°48 | 10°56 | 20°13 | 16°34 | 17°55 | 7°33 | 25°59 | S 12 |
| S 13 | 11 24 10 | 22°54'37 | 20°47 | 18° 8 | 23°26 | 20°56 | 11° 1 | 23°33 | 2°50 | 10°57 | 20°13 | 16°30 | 17°52 | 7°40 | 26° 3 | S 13 |
| M14 | 11 28 6 | 23°54'14 | 2♍37 | 20° 3 | 24°39 | 21°43 | 10°54 | 23°32 | 2°53 | 10°58 | 20°13 | 16°26 | 17°48 | 7°47 | 26° 6 | M14 |
| T 15 | 11 32 3 | 24°53'49 | 14°27 | 21°59 | 25°53 | 22°29 | 10°47 | 23°31 | 2°55 | 10°59 | 20°14 | 16°23 | 17°45 | 7°53 | 26°10 | T 15 |
| W16 | 11 35 59 | 25°53'22 | 26°18 | 23°57 | 27° 6 | 23°16 | 10°39 | 23°29 | 2°58 | 11° 0 | 20°14 | 16°21 | 17°42 | 8° 0 | 26°13 | W16 |
| T 17 | 11 39 56 | 26°52'52 | 8♎12 | 25°55 | 28°20 | 24° 3 | 10°32 | 23°28 | 3° 0 | 11° 1 | 20°14 | 16°19 | 17°39 | 8° 7 | 26°16 | T 17 |
| F 18 | 11 43 52 | 27°52'21 | 20°13 | 27°54 | 29°33 | 24°49 | 10°25 | 23°27 | 3° 2 | 11° 2 | 20°14 | 16°D19 | 17°36 | 8°13 | 26°20 | F 18 |
| S 19 | 11 47 49 | 28°51'48 | 2♏20 | 29°55 | 0♓46 | 25°36 | 10°17 | 23°25 | 3° 5 | 11° 2 | 20°15 | 16°20 | 17°33 | 8°20 | 26°23 | S 19 |
| S 20 | 11 51 46 | 29°51'13 | 14°38 | 1♈56 | 2° 0 | 26°23 | 10°10 | 23°23 | 3° 7 | 11° 3 | 20°15 | 16°21 | 17°29 | 8°27 | 26°26 | S 20 |
| M21 | 11 55 42 | 0♈50'36 | 27° 9 | 3°57 | 3°13 | 27° 9 | 10° 2 | 23°22 | 3° 9 | 11° 4 | 20°15 | 16°22 | 17°26 | 8°33 | 26°29 | M21 |
| T 22 | 11 59 39 | 1°49'57 | 9♐56 | 6° 0 | 4°27 | 27°56 | 9°55 | 23°20 | 3°12 | 11° 5 | 20°16 | 16°24 | 17°23 | 8°40 | 26°32 | T 22 |
| W23 | 12 3 35 | 2°49'17 | 23° 1 | 8° 2 | 5°40 | 28°43 | 9°47 | 23°18 | 3°14 | 11° 5 | 20°16 | 16°24 | 17°20 | 8°47 | 26°35 | W23 |
| T 24 | 12 7 32 | 3°48'34 | 6♑28 | 10° 5 | 6°54 | 29°30 | 9°40 | 23°16 | 3°16 | 11° 6 | 20°17 | 16°R25 | 17°17 | 8°53 | 26°38 | T 24 |
| F 25 | 12 11 28 | 4°47'51 | 20°17 | 12° 7 | 8° 7 | 0♓16 | 9°32 | 23°13 | 3°18 | 11° 7 | 20°17 | 16°24 | 17°13 | 9° 0 | 26°41 | F 25 |
| S 26 | 12 15 25 | 5°47'05 | 4♒30 | 14° 9 | 9°21 | 1° 3 | 9°24 | 23°11 | 3°20 | 11° 7 | 20°18 | 16°23 | 17°10 | 9° 7 | 26°44 | S 26 |
| S 27 | 12 19 21 | 6°46'17 | 19° 4 | 16°11 | 10°34 | 1°50 | 9°17 | 23° 9 | 3°22 | 11° 8 | 20°18 | 16°22 | 17° 7 | 9°13 | 26°46 | S 27 |
| M28 | 12 23 18 | 7°45'28 | 3♓55 | 18°11 | 11°48 | 2°36 | 9° 9 | 23° 7 | 3°24 | 11° 8 | 20°19 | 16°21 | 17° 4 | 9°20 | 26°49 | M28 |
| T 29 | 12 27 15 | 8°44'36 | 18°57 | 20°10 | 13° 1 | 3°23 | 9° 1 | 23° 4 | 3°26 | 11° 9 | 20°19 | 16°20 | 17° 1 | 9°27 | 26°52 | T 29 |
| W30 | 12 31 11 | 9°43'43 | 4♈ 0 | 22° 7 | 14°15 | 4°10 | 8°53 | 23° 1 | 3°28 | 11° 9 | 20°20 | 16°20 | 16°58 | 9°33 | 26°54 | W30 |
| T 31 | 12 35 8 | 10♈42'48 | 18♈56 | 24♈ 2 | 15♓28 | 4♓56 | 8♎46 | 22♏59 | 3♒30 | 11♑10 | 20♊20 | 16°D20 | 16♎54 | 9♍40 | 26♑56 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s29 | 4s44 | 3n 4 | 14s41 | 2s 9 | 18s22 | 0s16 | 18s22 | 1s 5 | 3s25 | 1n34 | 16s29 | 2n18 | 20s13 | 0s33 | 22s12 | 0n52 | 15n52 | 7s16 | 6s35 | 7s16 | 5n59 | 14s37 | 6n36 |
| W 2 | 7 6 | 0n 4 | 1 51 | 14 7 | 2 10 | 18 5 | 0 19 | 18 9 | 1 5 | 3 23 | 1 35 | 16 29 | 2 18 | 20 13 | 0 33 | 22 11 | 0 52 | 15 52 | 7 16 | 6 34 | 7 14 | 5 57 | 14 36 | 6 36 |
| T 3 | 6 43 | 4 49 | 0 31 | 13 31 | 2 11 | 17 48 | 0 22 | 17 56 | 1 5 | 3 20 | 1 35 | 16 29 | 2 18 | 20 12 | 0 33 | 22 11 | 0 52 | 15 52 | 7 16 | 6 34 | 7 13 | 5 56 | 14 35 | 6 37 |
| F 4 | 6 20 | 9 9 | 0s49 | 12 54 | 2 11 | 17 30 | 0 25 | 17 43 | 1 6 | 3 18 | 1 35 | 16 29 | 2 19 | 20 12 | 0 33 | 22 11 | 0 52 | 15 53 | 7 16 | 6 34 | 7 12 | 5 54 | 14 34 | 6 37 |
| S 5 | 5 57 | 12 50 | 2 3 | 12 16 | 2 10 | 17 12 | 0 28 | 17 30 | 1 6 | 3 15 | 1 35 | 16 29 | 2 19 | 20 11 | 0 33 | 22 11 | 0 52 | 15 53 | 7 15 | 6 34 | 7 11 | 5 52 | 14 33 | 6 38 |
| S 6 | 5 33 | 15 40 | 3 9 | 11 36 | 2 9 | 16 53 | 0 31 | 17 17 | 1 7 | 3 13 | 1 35 | 16 28 | 2 19 | 20 10 | 0 33 | 22 11 | 0 52 | 15 53 | 7 15 | 6 35 | 7 10 | 5 50 | 14 32 | 6 38 |
| M 7 | 5 10 | 17 32 | 4 1 | 10 55 | 2 8 | 16 34 | 0 33 | 17 3 | 1 7 | 3 10 | 1 35 | 16 28 | 2 19 | 20 10 | 0 33 | 22 11 | 0 52 | 15 53 | 7 15 | 6 35 | 7 8 | 5 48 | 14 31 | 6 38 |
| T 8 | 4 47 | 18 26 | 4 40 | 10 13 | 2 6 | 16 15 | 0 36 | 16 49 | 1 7 | 3 7 | 1 36 | 16 28 | 2 19 | 20 9 | 0 33 | 22 11 | 0 52 | 15 53 | 7 15 | 6 35 | 7 7 | 5 46 | 14 30 | 6 39 |
| W 9 | 4 23 | 18 23 | 5 4 | 9 29 | 2 4 | 15 55 | 0 39 | 16 35 | 1 8 | 3 5 | 1 36 | 16 27 | 2 19 | 20 9 | 0 33 | 22 11 | 0 52 | 15 54 | 7 15 | 6 35 | 7 6 | 5 45 | 14 29 | 6 39 |
| T 10 | 4 0 | 17 28 | 5 14 | 8 44 | 2 1 | 15 34 | 0 41 | 16 21 | 1 8 | 3 2 | 1 36 | 16 27 | 2 20 | 20 8 | 0 33 | 22 10 | 0 52 | 15 54 | 7 14 | 6 34 | 7 5 | 5 43 | 14 28 | 6 40 |
| F 11 | 3 36 | 15 45 | 5 9 | 7 58 | 1 57 | 15 13 | 0 44 | 16 7 | 1 8 | 2 59 | 1 36 | 16 27 | 2 20 | 20 7 | 0 33 | 22 10 | 0 52 | 15 54 | 7 14 | 6 33 | 7 4 | 5 41 | 14 27 | 6 40 |
| S 12 | 3 13 | 13 23 | 4 51 | 7 11 | 1 54 | 14 52 | 0 46 | 15 53 | 1 9 | 2 56 | 1 36 | 16 26 | 2 20 | 20 7 | 0 34 | 22 10 | 0 52 | 15 54 | 7 14 | 6 32 | 7 2 | 5 39 | 14 26 | 6 40 |
| S 13 | 2 49 | 10 29 | 4 20 | 6 22 | 1 49 | 14 30 | 0 49 | 15 38 | 1 9 | 2 53 | 1 36 | 16 26 | 2 20 | 20 6 | 0 34 | 22 10 | 0 52 | 15 55 | 7 14 | 6 30 | 7 1 | 5 37 | 14 25 | 6 41 |
| M14 | 2 26 | 7 10 | 3 38 | 5 33 | 1 44 | 14 8 | 0 51 | 15 23 | 1 9 | 2 51 | 1 36 | 16 25 | 2 20 | 20 6 | 0 34 | 22 10 | 0 52 | 15 55 | 7 13 | 6 28 | 7 0 | 5 35 | 14 24 | 6 41 |
| T 15 | 2 2 | 3 34 | 2 47 | 4 42 | 1 39 | 13 45 | 0 53 | 15 8 | 1 10 | 2 48 | 1 36 | 16 25 | 2 21 | 20 5 | 0 34 | 22 10 | 0 52 | 15 55 | 7 13 | 6 27 | 6 59 | 5 34 | 14 23 | 6 42 |
| W16 | 1 38 | 0s11 | 1 48 | 3 50 | 1 33 | 13 22 | 0 56 | 14 53 | 1 10 | 2 45 | 1 36 | 16 24 | 2 21 | 20 5 | 0 34 | 22 10 | 0 52 | 15 55 | 7 13 | 6 26 | 6 58 | 5 32 | 14 22 | 6 42 |
| T 17 | 1 15 | 3 57 | 0 45 | 2 57 | 1 26 | 12 59 | 0 58 | 14 38 | 1 10 | 2 42 | 1 37 | 16 24 | 2 21 | 20 4 | 0 34 | 22 10 | 0 52 | 15 56 | 7 13 | 6 26 | 6 56 | 5 30 | 14 21 | 6 42 |
| F 18 | 0 51 | 7 35 | 0n22 | 2 3 | 1 19 | 12 35 | 1 0 | 14 23 | 1 11 | 2 39 | 1 37 | 16 23 | 2 21 | 20 4 | 0 34 | 22 10 | 0 52 | 15 56 | 7 13 | 6 26 | 6 55 | 5 28 | 14 19 | 6 43 |
| S 19 | 0 27 | 10 56 | 1 28 | 1 8 | 1 12 | 12 11 | 1 2 | 14 7 | 1 11 | 2 36 | 1 37 | 16 23 | 2 21 | 20 3 | 0 34 | 22 10 | 0 52 | 15 56 | 7 12 | 6 26 | 6 54 | 5 26 | 14 18 | 6 43 |
| S 20 | 0 4 | 13 52 | 2 30 | 0 12 | 1 4 | 11 47 | 1 4 | 13 52 | 1 11 | 2 33 | 1 37 | 16 22 | 2 21 | 20 2 | 0 34 | 22 10 | 0 52 | 15 56 | 7 12 | 6 26 | 6 53 | 5 24 | 14 17 | 6 44 |
| M21 | 0n20 | 16 11 | 3 27 | 0n44 | 0 55 | 11 22 | 1 6 | 13 36 | 1 11 | 2 30 | 1 37 | 16 22 | 2 22 | 20 2 | 0 34 | 22 9 | 0 52 | 15 56 | 7 12 | 6 27 | 6 51 | 5 22 | 14 16 | 6 44 |
| T 22 | 0 44 | 17 46 | 4 15 | 1 41 | 0 46 | 10 57 | 1 8 | 13 20 | 1 12 | 2 27 | 1 37 | 16 21 | 2 22 | 20 2 | 0 34 | 22 9 | 0 52 | 15 57 | 7 12 | 6 27 | 6 50 | 5 21 | 14 15 | 6 45 |
| W23 | 1 7 | 18 27 | 4 51 | 2 38 | 0 36 | 10 32 | 1 10 | 13 4 | 1 12 | 2 24 | 1 37 | 16 20 | 2 22 | 20 1 | 0 34 | 22 9 | 0 52 | 15 57 | 7 12 | 6 28 | 6 49 | 5 19 | 14 14 | 6 45 |
| T 24 | 1 31 | 18 7 | 5 12 | 3 36 | 0 26 | 10 6 | 1 12 | 12 48 | 1 12 | 2 21 | 1 37 | 16 20 | 2 22 | 20 1 | 0 34 | 22 9 | 0 52 | 15 57 | 7 11 | 6 28 | 6 48 | 5 17 | 14 13 | 6 46 |
| F 25 | 1 55 | 16 44 | 5 16 | 4 34 | 0 16 | 9 40 | 1 13 | 12 32 | 1 13 | 2 18 | 1 37 | 16 19 | 2 22 | 20 0 | 0 34 | 22 9 | 0 52 | 15 57 | 7 11 | 6 28 | 6 47 | 5 15 | 14 12 | 6 46 |
| S 26 | 2 18 | 14 17 | 5 1 | 5 31 | 0 5 | 9 14 | 1 15 | 12 15 | 1 13 | 2 15 | 1 37 | 16 18 | 2 22 | 20 0 | 0 34 | 22 9 | 0 52 | 15 58 | 7 11 | 6 27 | 6 45 | 5 13 | 14 11 | 6 47 |
| S 27 | 2 42 | 10 54 | 4 27 | 6 28 | 0n 6 | 8 48 | 1 16 | 11 59 | 1 13 | 2 12 | 1 37 | 16 18 | 2 22 | 19 59 | 0 34 | 22 9 | 0 52 | 15 58 | 7 11 | 6 27 | 6 44 | 5 11 | 14 10 | 6 47 |
| M28 | 3 5 | 6 45 | 3 34 | 7 25 | 0 18 | 8 21 | 1 18 | 11 42 | 1 13 | 2 9 | 1 37 | 16 17 | 2 23 | 19 59 | 0 34 | 22 9 | 0 52 | 15 58 | 7 11 | 6 26 | 6 43 | 5 10 | 14 10 | 6 48 |
| T 29 | 3 28 | 2 8 | 2 26 | 8 21 | 0 29 | 7 54 | 1 19 | 11 25 | 1 14 | 2 6 | 1 37 | 16 16 | 2 23 | 19 58 | 0 34 | 22 9 | 0 52 | 15 58 | 7 10 | 6 26 | 6 42 | 5 8 | 14 9 | 6 48 |
| W30 | 3 52 | 2n38 | 1 8 | 9 15 | 0 41 | 7 27 | 1 21 | 11 9 | 1 14 | 2 3 | 1 37 | 16 15 | 2 23 | 19 58 | 0 34 | 22 9 | 0 52 | 15 59 | 7 10 | 6 26 | 6 40 | 5 6 | 14 8 | 6 49 |
| T 31 | 4n15 | 7n12 | 0s15 | 10n 9 | 0n52 | 7s 0 | 1s22 | 10s52 | 1s14 | 2s 0 | 1n37 | 16s15 | 2n23 | 19s58 | 0s34 | 22s 9 | 0n52 | 15n59 | 7s10 | 6s26 | 6s39 | 5n 4 | 14s 7 | 6n49 |

Julian Day Number = 2327787.5, Delta T = 35.59 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'39, Lahiri = 19°07'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## APRIL 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 39 4 | 11♈41'50 | 3♉38 | 25♈54 | 16♓42 | 5♓43 | 8°R38 | 22°R56 | 3♒32 | 11♑10 | 20♊21 | 16♎20 | 16♎51 | 9♍47 | 26♑59 | F 1 |
| S 2 | 12 43 1 | 12°40'51 | 17°58 | 27°44 | 17°55 | 6°30 | 8♎30 | 22♏53 | 3°33 | 11°10 | 20°22 | 16°20 | 16°48 | 9°53 | 27° 1 | S 2 |
| S 3 | 12 46 57 | 13°39'49 | 1♊54 | 29°30 | 19° 9 | 7°16 | 8°23 | 22°50 | 3°35 | 11°11 | 20°22 | 16°21 | 16°45 | 10° 0 | 27° 3 | S 3 |
| M 4 | 12 50 54 | 14°38'45 | 15°23 | 1♉13 | 20°22 | 8° 3 | 8°15 | 22°47 | 3°37 | 11°11 | 20°23 | 16°21 | 16°42 | 10° 7 | 27° 6 | M 4 |
| T 5 | 12 54 50 | 15°37'39 | 28°27 | 2°51 | 21°36 | 8°50 | 8° 7 | 22°44 | 3°38 | 11°11 | 20°24 | 16°21 | 16°39 | 10°14 | 27° 8 | T 5 |
| W 6 | 12 58 47 | 16°36'31 | 11♋ 8 | 4°26 | 22°49 | 9°36 | 8° 0 | 22°41 | 3°40 | 11°12 | 20°24 | 16°21 | 16°35 | 10°20 | 27°10 | W 6 |
| T 7 | 13 2 44 | 17°35'20 | 23°29 | 5°56 | 24° 3 | 10°23 | 7°52 | 22°38 | 3°41 | 11°12 | 20°25 | 16°21 | 16°32 | 10°27 | 27°12 | T 7 |
| F 8 | 13 6 40 | 18°34'07 | 5♌36 | 7°21 | 25°16 | 11° 9 | 7°45 | 22°35 | 3°43 | 11°12 | 20°26 | 16°21 | 16°29 | 10°34 | 27°14 | F 8 |
| S 9 | 13 10 37 | 19°32'51 | 17°33 | 8°41 | 26°30 | 11°56 | 7°37 | 22°31 | 3°44 | 11°12 | 20°26 | 16°21 | 16°26 | 10°40 | 27°15 | S 9 |
| S 10 | 13 14 33 | 20°31'34 | 29°24 | 9°57 | 27°43 | 12°42 | 7°30 | 22°28 | 3°46 | 11°12 | 20°27 | 16°22 | 16°23 | 10°47 | 27°17 | S 10 |
| M11 | 13 18 30 | 21°30'14 | 11♍12 | 11° 7 | 28°57 | 13°29 | 7°23 | 22°25 | 3°47 | 11°12 | 20°28 | 16°22 | 16°19 | 10°54 | 27°19 | M11 |
| T 12 | 13 22 26 | 22°28'52 | 23° 3 | 12°11 | 0♈10 | 14°15 | 7°15 | 22°21 | 3°48 | 11°R12 | 20°29 | 16°23 | 16°16 | 11° 0 | 27°20 | T 12 |
| W13 | 13 26 23 | 23°27'28 | 4♎58 | 13°10 | 1°24 | 15° 2 | 7° 8 | 22°18 | 3°50 | 11°12 | 20°30 | 16°23 | 16°13 | 11° 7 | 27°22 | W13 |
| T 14 | 13 30 19 | 24°26'01 | 17° 0 | 14° 4 | 2°37 | 15°48 | 7° 1 | 22°14 | 3°51 | 11°12 | 20°31 | 16°R23 | 16°10 | 11°14 | 27°23 | T 14 |
| F 15 | 13 34 16 | 25°24'33 | 29°12 | 14°51 | 3°51 | 16°35 | 6°54 | 22°10 | 3°52 | 11°12 | 20°31 | 16°23 | 16° 7 | 11°20 | 27°25 | F 15 |
| S 16 | 13 38 12 | 26°23'03 | 11♏35 | 15°34 | 5° 4 | 17°21 | 6°47 | 22° 6 | 3°53 | 11°12 | 20°32 | 16°22 | 16° 4 | 11°27 | 27°26 | S 16 |
| S 17 | 13 42 9 | 27°21'32 | 24° 9 | 16°10 | 6°18 | 18° 8 | 6°40 | 22° 3 | 3°54 | 11°12 | 20°33 | 16°21 | 16° 0 | 11°34 | 27°27 | S 17 |
| M18 | 13 46 6 | 28°19'58 | 6♐57 | 16°40 | 7°31 | 18°54 | 6°33 | 21°59 | 3°55 | 11°12 | 20°34 | 16°20 | 15°57 | 11°40 | 27°28 | M18 |
| T 19 | 13 50 2 | 29°18'23 | 19°59 | 17° 5 | 8°45 | 19°40 | 6°27 | 21°55 | 3°56 | 11°11 | 20°35 | 16°18 | 15°54 | 11°47 | 27°30 | T 19 |
| W20 | 13 53 59 | 0♑16'46 | 3♑16 | 17°23 | 9°58 | 20°27 | 6°20 | 21°51 | 3°57 | 11°11 | 20°36 | 16°16 | 15°51 | 11°54 | 27°31 | W20 |
| T 21 | 13 57 55 | 1°15'08 | 16°48 | 17°36 | 11°12 | 21°13 | 6°14 | 21°47 | 3°58 | 11°11 | 20°37 | 16°15 | 15°48 | 12° 0 | 27°32 | T 21 |
| F 22 | 14 1 52 | 2°13'28 | 0♒35 | 17°43 | 12°25 | 21°59 | 6° 7 | 21°43 | 3°59 | 11°11 | 20°38 | 16°D15 | 15°44 | 12° 7 | 27°32 | F 22 |
| S 23 | 14 5 48 | 3°11'46 | 14°38 | 17°R45 | 13°39 | 22°46 | 6° 1 | 21°39 | 4° 0 | 11°10 | 20°39 | 16°15 | 15°41 | 12°14 | 27°33 | S 23 |
| S 24 | 14 9 45 | 4°10'03 | 28°55 | 17°41 | 14°52 | 23°32 | 5°55 | 21°35 | 4° 0 | 11°10 | 20°40 | 16°16 | 15°38 | 12°20 | 27°34 | S 24 |
| M25 | 14 13 41 | 5° 8'18 | 13♓24 | 17°32 | 16° 6 | 24°18 | 5°49 | 21°30 | 4° 1 | 11°10 | 20°41 | 16°17 | 15°35 | 12°27 | 27°35 | M25 |
| T 26 | 14 17 38 | 6° 6'32 | 28° 1 | 17°18 | 17°19 | 25° 4 | 5°43 | 21°26 | 4° 2 | 11° 9 | 20°42 | 16°18 | 15°32 | 12°34 | 27°35 | T 26 |
| W27 | 14 21 35 | 7° 4'44 | 12♈42 | 17° 0 | 18°33 | 25°51 | 5°37 | 21°22 | 4° 2 | 11° 9 | 20°43 | 16°R19 | 15°29 | 12°40 | 27°36 | W27 |
| T 28 | 14 25 31 | 8° 2'55 | 27°19 | 16°37 | 19°46 | 26°37 | 5°32 | 21°18 | 4° 3 | 11° 8 | 20°44 | 16°19 | 15°25 | 12°47 | 27°36 | T 28 |
| F 29 | 14 29 28 | 9° 1'04 | 11♉47 | 16°11 | 21° 0 | 27°23 | 5°26 | 21°13 | 4° 3 | 11° 8 | 20°45 | 16°17 | 15°22 | 12°54 | 27°36 | F 29 |
| S 30 | 14 33 24 | 9♉59'11 | 26♉ 0 | 15♉41 | 22♈13 | 28♓ 9 | 5♎21 | 21♏ 9 | 4♒ 4 | 11♑ 7 | 20♊46 | 16♎15 | 15♎19 | 13♍ 0 | 27♑37 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n38 | 11n16 | 1s35 | 11n 1 | 1n 4 | 6s32 | 1s23 | 10s35 | 1s14 | 1s57 | 1n37 | 16s14 | 2n23 | 19s57 | 0s34 | 22s 9 | 0n52 | 15n59 | 7s10 | 6s26 | 6s38 | 5n 2 | 14s 6 | 6n50 |
| S 2 | 5 1 | 14 33 | 2 47 | 11 51 | 1 15 | 6 5 | 1 25 | 10 18 | 1 14 | 1 54 | 1 37 | 16 13 | 2 23 | 19 57 | 0 34 | 22 9 | 0 52 | 15 59 | 7 10 | 6 26 | 6 37 | 5 0 | 14 5 | 6 50 |
| S 3 | 5 24 | 16 52 | 3 47 | 12 40 | 1 26 | 5 37 | 1 26 | 10 1 | 1 15 | 1 51 | 1 37 | 16 12 | 2 23 | 19 56 | 0 34 | 22 9 | 0 52 | 15 59 | 7 9 | 6 26 | 6 36 | 4 59 | 14 4 | 6 51 |
| M 4 | 5 47 | 18 10 | 4 33 | 13 26 | 1 37 | 5 9 | 1 27 | 9 43 | 1 15 | 1 48 | 1 37 | 16 11 | 2 24 | 19 56 | 0 34 | 22 9 | 0 52 | 16 0 | 7 9 | 6 26 | 6 34 | 4 57 | 14 3 | 6 51 |
| T 5 | 6 10 | 18 26 | 5 3 | 14 10 | 1 48 | 4 41 | 1 28 | 9 26 | 1 15 | 1 45 | 1 37 | 16 10 | 2 24 | 19 56 | 0 34 | 22 9 | 0 52 | 16 0 | 7 9 | 6 26 | 6 33 | 4 55 | 14 2 | 6 52 |
| W 6 | 6 32 | 17 45 | 5 16 | 14 52 | 1 58 | 4 12 | 1 29 | 9 8 | 1 15 | 1 42 | 1 37 | 16 9 | 2 24 | 19 55 | 0 34 | 22 9 | 0 52 | 16 0 | 7 9 | 6 26 | 6 32 | 4 53 | 14 1 | 6 52 |
| T 7 | 6 55 | 16 15 | 5 15 | 15 31 | 2 7 | 3 44 | 1 29 | 8 51 | 1 15 | 1 39 | 1 37 | 16 8 | 2 24 | 19 55 | 0 34 | 22 8 | 0 52 | 16 0 | 7 9 | 6 26 | 6 31 | 4 51 | 14 0 | 6 53 |
| F 8 | 7 17 | 14 3 | 5 0 | 16 8 | 2 16 | 3 16 | 1 30 | 8 33 | 1 15 | 1 36 | 1 37 | 16 8 | 2 24 | 19 55 | 0 34 | 22 8 | 0 52 | 16 1 | 7 8 | 6 26 | 6 29 | 4 49 | 13 59 | 6 53 |
| S 9 | 7 40 | 11 17 | 4 32 | 16 41 | 2 24 | 2 47 | 1 31 | 8 16 | 1 16 | 1 33 | 1 37 | 16 7 | 2 24 | 19 54 | 0 34 | 22 8 | 0 52 | 16 1 | 7 8 | 6 26 | 6 28 | 4 47 | 13 59 | 6 54 |
| S 10 | 8 2 | 8 4 | 3 53 | 17 12 | 2 31 | 2 18 | 1 31 | 7 58 | 1 16 | 1 30 | 1 37 | 16 6 | 2 24 | 19 54 | 0 34 | 22 8 | 0 52 | 16 1 | 7 8 | 6 27 | 6 27 | 4 46 | 13 58 | 6 54 |
| M11 | 8 24 | 4 33 | 3 3 | 17 41 | 2 37 | 1 49 | 1 32 | 7 40 | 1 16 | 1 27 | 1 37 | 16 5 | 2 24 | 19 54 | 0 34 | 22 8 | 0 52 | 16 1 | 7 8 | 6 27 | 6 26 | 4 44 | 13 57 | 6 55 |
| T 12 | 8 46 | 0 50 | 2 6 | 18 6 | 2 43 | 1 21 | 1 32 | 7 22 | 1 16 | 1 24 | 1 36 | 16 4 | 2 24 | 19 54 | 0 34 | 22 8 | 0 52 | 16 2 | 7 8 | 6 27 | 6 25 | 4 42 | 13 56 | 6 55 |
| W13 | 9 8 | 2s56 | 1 3 | 18 29 | 2 47 | 0 52 | 1 33 | 7 4 | 1 16 | 1 22 | 1 36 | 16 3 | 2 25 | 19 53 | 0 34 | 22 8 | 0 52 | 16 2 | 7 8 | 6 27 | 6 23 | 4 40 | 13 55 | 6 56 |
| T 14 | 9 29 | 6 38 | 0n 3 | 18 48 | 2 51 | 0 23 | 1 33 | 6 47 | 1 16 | 1 19 | 1 36 | 16 2 | 2 25 | 19 53 | 0 35 | 22 8 | 0 52 | 16 2 | 7 7 | 6 27 | 6 22 | 4 38 | 13 55 | 6 56 |
| F 15 | 9 51 | 10 7 | 1 11 | 19 5 | 2 53 | 0n 6 | 1 33 | 6 29 | 1 16 | 1 16 | 1 36 | 16 1 | 2 25 | 19 53 | 0 35 | 22 8 | 0 52 | 16 2 | 7 7 | 6 27 | 6 21 | 4 36 | 13 54 | 6 57 |
| S 16 | 10 12 | 13 11 | 2 15 | 19 19 | 2 55 | 0 35 | 1 33 | 6 10 | 1 16 | 1 14 | 1 36 | 16 0 | 2 25 | 19 53 | 0 35 | 22 8 | 0 52 | 16 3 | 7 7 | 6 27 | 6 20 | 4 34 | 13 53 | 6 57 |
| S 17 | 10 33 | 15 42 | 3 14 | 19 30 | 2 55 | 1 4 | 1 34 | 5 52 | 1 16 | 1 11 | 1 36 | 15 59 | 2 25 | 19 52 | 0 35 | 22 8 | 0 52 | 16 3 | 7 7 | 6 26 | 6 18 | 4 33 | 13 52 | 6 58 |
| M18 | 10 54 | 17 29 | 4 5 | 19 37 | 2 54 | 1 33 | 1 34 | 5 34 | 1 16 | 1 8 | 1 36 | 15 58 | 2 25 | 19 52 | 0 35 | 22 8 | 0 52 | 16 3 | 7 7 | 6 26 | 6 17 | 4 31 | 13 51 | 6 58 |
| T 19 | 11 15 | 18 23 | 4 44 | 19 42 | 2 52 | 2 2 | 1 34 | 5 16 | 1 17 | 1 6 | 1 36 | 15 56 | 2 25 | 19 52 | 0 35 | 22 8 | 0 52 | 16 3 | 7 6 | 6 25 | 6 16 | 4 29 | 13 51 | 6 59 |
| W20 | 11 35 | 18 18 | 5 8 | 19 45 | 2 48 | 2 31 | 1 33 | 4 58 | 1 17 | 1 3 | 1 36 | 15 55 | 2 25 | 19 52 | 0 35 | 22 8 | 0 52 | 16 4 | 7 6 | 6 25 | 6 15 | 4 27 | 13 50 | 7 0 |
| T 21 | 11 56 | 17 11 | 5 16 | 19 44 | 2 44 | 3 0 | 1 33 | 4 40 | 1 17 | 1 1 | 1 35 | 15 54 | 2 25 | 19 52 | 0 35 | 22 8 | 0 52 | 16 4 | 7 6 | 6 24 | 6 14 | 4 25 | 13 49 | 7 0 |
| F 22 | 12 16 | 15 4 | 5 7 | 19 40 | 2 38 | 3 29 | 1 33 | 4 21 | 1 17 | 0 59 | 1 35 | 15 53 | 2 25 | 19 51 | 0 35 | 22 8 | 0 52 | 16 4 | 7 6 | 6 24 | 6 12 | 4 23 | 13 49 | 7 1 |
| S 23 | 12 36 | 12 2 | 4 39 | 19 33 | 2 30 | 3 58 | 1 33 | 4 3 | 1 17 | 0 56 | 1 35 | 15 52 | 2 25 | 19 51 | 0 35 | 22 8 | 0 53 | 16 4 | 7 6 | 6 24 | 6 11 | 4 22 | 13 48 | 7 1 |
| S 24 | 12 56 | 8 14 | 3 53 | 19 24 | 2 22 | 4 27 | 1 32 | 3 45 | 1 17 | 0 54 | 1 35 | 15 51 | 2 25 | 19 51 | 0 35 | 22 8 | 0 53 | 16 4 | 7 6 | 6 24 | 6 10 | 4 20 | 13 47 | 7 2 |
| M25 | 13 15 | 3 53 | 2 52 | 19 12 | 2 12 | 4 56 | 1 32 | 3 26 | 1 17 | 0 52 | 1 35 | 15 50 | 2 25 | 19 51 | 0 35 | 22 8 | 0 53 | 16 5 | 7 6 | 6 25 | 6 9 | 4 18 | 13 47 | 7 2 |
| T 26 | 13 35 | 0n44 | 1 39 | 18 58 | 2 1 | 5 24 | 1 31 | 3 8 | 1 17 | 0 50 | 1 35 | 15 49 | 2 25 | 19 51 | 0 35 | 22 8 | 0 53 | 16 5 | 7 5 | 6 25 | 6 7 | 4 16 | 13 46 | 7 3 |
| W27 | 13 54 | 5 20 | 0 20 | 18 41 | 1 49 | 5 53 | 1 31 | 2 50 | 1 17 | 0 48 | 1 34 | 15 48 | 2 25 | 19 51 | 0 35 | 22 8 | 0 53 | 16 5 | 7 5 | 6 26 | 6 6 | 4 14 | 13 45 | 7 3 |
| T 28 | 14 13 | 9 36 | 1s 0 | 18 21 | 1 35 | 6 21 | 1 30 | 2 31 | 1 17 | 0 45 | 1 34 | 15 47 | 2 25 | 19 51 | 0 35 | 22 8 | 0 53 | 16 5 | 7 5 | 6 26 | 6 5 | 4 12 | 13 45 | 7 4 |
| F 29 | 14 32 | 13 14 | 2 16 | 18 0 | 1 21 | 6 49 | 1 30 | 2 13 | 1 17 | 0 43 | 1 34 | 15 45 | 2 25 | 19 51 | 0 35 | 22 8 | 0 53 | 16 6 | 7 5 | 6 25 | 6 4 | 4 10 | 13 44 | 7 4 |
| S 30 | 14n50 | 16n 1 | 3s22 | 17n37 | 1n 6 | 7n18 | 1s29 | 1s55 | 1s17 | 0s42 | 1n34 | 15s44 | 2n25 | 19s51 | 0s35 | 22s 8 | 0n53 | 16n 6 | 7s 5 | 6s24 | 6s 3 | 4n 9 | 13s44 | 7n 5 |

Julian Day Number = 2327818.5, Delta T = 35.53 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'43, Lahiri = 19°07'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## MAY 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 37 21 | 10♉57'17 | 9♊53 | 15°R 9 | 23♈27 | 28♓55 | 5°R16 | 21°R 5 | 4♒ 4 | 11°R 7 | 20♊48 | 16°R11 | 15♎16 | 13♍ 7 | 27♑37 | S 1 |
| M 2 | 14 41 17 | 11°55'21 | 23°24 | 14♉35 | 24°40 | 29°41 | 5♎11 | 21♏ 0 | 4° 4 | 11♑ 6 | 20°49 | 16♎ 8 | 15°13 | 13°14 | 27°37 | M 2 |
| T 3 | 14 45 14 | 12°53'23 | 6♋31 | 13°59 | 25°54 | 0♈27 | 5° 6 | 20°56 | 4° 5 | 11° 5 | 20°50 | 16° 4 | 15°10 | 13°20 | 27°R37 | T 3 |
| W 4 | 14 49 10 | 13°51'23 | 19°15 | 13°23 | 27° 7 | 1°13 | 5° 1 | 20°51 | 4° 5 | 11° 5 | 20°51 | 16° 1 | 15° 6 | 13°27 | 27°37 | W 4 |
| T 5 | 14 53 7 | 14°49'21 | 1♌40 | 12°46 | 28°21 | 1°59 | 4°57 | 20°47 | 4° 5 | 11° 4 | 20°52 | 15°59 | 15° 3 | 13°34 | 27°37 | T 5 |
| F 6 | 14 57 4 | 15°47'18 | 13°48 | 12°10 | 29°34 | 2°45 | 4°52 | 20°43 | 4° 5 | 11° 3 | 20°53 | 15°D58 | 15° 0 | 13°40 | 27°37 | F 6 |
| S 7 | 15 1 0 | 16°45'12 | 25°46 | 11°35 | 0♉48 | 3°31 | 4°48 | 20°38 | 4° 5 | 11° 3 | 20°55 | 15°58 | 14°57 | 13°47 | 27°36 | S 7 |
| S 8 | 15 4 57 | 17°43'05 | 7♍37 | 11° 1 | 2° 1 | 4°16 | 4°44 | 20°34 | 4°R 5 | 11° 2 | 20°56 | 16° 0 | 14°54 | 13°54 | 27°36 | S 8 |
| M 9 | 15 8 53 | 18°40'56 | 19°26 | 10°30 | 3°15 | 5° 2 | 4°40 | 20°29 | 4° 5 | 11° 1 | 20°57 | 16° 1 | 14°50 | 14° 0 | 27°36 | M 9 |
| T 10 | 15 12 50 | 19°38'45 | 1♎18 | 10° 2 | 4°28 | 5°48 | 4°36 | 20°25 | 4° 5 | 11° 0 | 20°58 | 16° 3 | 14°47 | 14° 7 | 27°35 | T 10 |
| W11 | 15 16 46 | 20°36'33 | 13°18 | 9°36 | 5°42 | 6°34 | 4°32 | 20°20 | 4° 5 | 10°59 | 21° 0 | 16°R 4 | 14°44 | 14°14 | 27°35 | W11 |
| T 12 | 15 20 43 | 21°34'19 | 25°28 | 9°15 | 6°55 | 7°19 | 4°29 | 20°16 | 4° 5 | 10°58 | 21° 1 | 16° 3 | 14°41 | 14°20 | 27°34 | T 12 |
| F 13 | 15 24 39 | 22°32'03 | 7♏52 | 8°57 | 8° 9 | 8° 5 | 4°26 | 20°11 | 4° 5 | 10°57 | 21° 2 | 16° 1 | 14°38 | 14°27 | 27°33 | F 13 |
| S 14 | 15 28 36 | 23°29'46 | 20°32 | 8°43 | 9°22 | 8°50 | 4°23 | 20° 7 | 4° 5 | 10°57 | 21° 3 | 15°58 | 14°35 | 14°34 | 27°33 | S 14 |
| S 15 | 15 32 33 | 24°27'28 | 3♐27 | 8°34 | 10°36 | 9°36 | 4°20 | 20° 2 | 4° 4 | 10°56 | 21° 5 | 15°52 | 14°31 | 14°40 | 27°32 | S 15 |
| M16 | 15 36 29 | 25°25'08 | 16°37 | 8°29 | 11°49 | 10°21 | 4°17 | 19°58 | 4° 4 | 10°55 | 21° 6 | 15°46 | 14°28 | 14°47 | 27°31 | M16 |
| T 17 | 15 40 26 | 26°22'47 | 0♑ 2 | 8°D28 | 13° 3 | 11° 7 | 4°14 | 19°53 | 4° 3 | 10°54 | 21° 7 | 15°40 | 14°25 | 14°54 | 27°30 | T 17 |
| W18 | 15 44 22 | 27°20'25 | 13°40 | 8°32 | 14°16 | 11°52 | 4°12 | 19°49 | 4° 3 | 10°53 | 21° 9 | 15°34 | 14°22 | 15° 0 | 27°29 | W18 |
| T 19 | 15 48 19 | 28°18'02 | 27°28 | 8°40 | 15°30 | 12°38 | 4°10 | 19°45 | 4° 3 | 10°51 | 21°10 | 15°29 | 14°19 | 15° 7 | 27°28 | T 19 |
| F 20 | 15 52 15 | 29°15'38 | 11♒25 | 8°53 | 16°43 | 13°23 | 4° 8 | 19°40 | 4° 2 | 10°50 | 21°11 | 15°25 | 14°16 | 15°14 | 27°26 | F 20 |
| S 21 | 15 56 12 | 0♊13'14 | 25°28 | 9°11 | 17°56 | 14° 8 | 4° 6 | 19°36 | 4° 1 | 10°49 | 21°13 | 15°D24 | 14°12 | 15°20 | 27°25 | S 21 |
| S 22 | 16 0 8 | 1°10'48 | 9♓37 | 9°33 | 19°10 | 14°53 | 4° 4 | 19°31 | 4° 1 | 10°48 | 21°14 | 15°24 | 14° 9 | 15°27 | 27°24 | S 22 |
| M23 | 16 4 5 | 2° 8'21 | 23°50 | 9°59 | 20°23 | 15°39 | 4° 2 | 19°27 | 4° 0 | 10°47 | 21°15 | 15°25 | 14° 6 | 15°34 | 27°22 | M23 |
| T 24 | 16 8 2 | 3° 5'53 | 8♈ 5 | 10°29 | 21°37 | 16°24 | 4° 1 | 19°23 | 3°59 | 10°46 | 21°17 | 15°R26 | 14° 3 | 15°40 | 27°21 | T 24 |
| W25 | 16 11 58 | 4° 3'25 | 22°20 | 11° 4 | 22°51 | 17° 9 | 4° 0 | 19°19 | 3°58 | 10°45 | 21°18 | 15°26 | 14° 0 | 15°47 | 27°19 | W25 |
| T 26 | 16 15 55 | 5° 0'55 | 6♉31 | 11°42 | 24° 4 | 17°54 | 3°59 | 19°14 | 3°58 | 10°43 | 21°19 | 15°24 | 13°56 | 15°54 | 27°18 | T 26 |
| F 27 | 16 19 51 | 5°58'25 | 20°36 | 12°25 | 25°18 | 18°39 | 3°58 | 19°10 | 3°57 | 10°42 | 21°21 | 15°20 | 13°53 | 16° 0 | 27°16 | F 27 |
| S 28 | 16 23 48 | 6°55'54 | 4♊29 | 13°11 | 26°31 | 19°24 | 3°58 | 19° 6 | 3°56 | 10°41 | 21°22 | 15°14 | 13°50 | 16° 7 | 27°14 | S 28 |
| S 29 | 16 27 44 | 7°53'22 | 18° 8 | 14° 1 | 27°45 | 20° 9 | 3°57 | 19° 2 | 3°55 | 10°40 | 21°23 | 15° 6 | 13°47 | 16°14 | 27°13 | S 29 |
| M30 | 16 31 41 | 8°50'49 | 1♋29 | 14°54 | 28°58 | 20°53 | 3°57 | 18°58 | 3°54 | 10°38 | 21°25 | 14°57 | 13°44 | 16°20 | 27°11 | M30 |
| T 31 | 16 35 37 | 9♊48'15 | 14♋31 | 15♉51 | 0♊12 | 21♈38 | 3°D57 | 18♏54 | 3♒53 | 10♑37 | 21♊26 | 14♎48 | 13♎41 | 16♍27 | 27♑ 9 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n 8 | 17n47 | 4s14 | 17n12 | 0n50 | 7n46 | 1s28 | 1s36 | 1s17 | 0s40 | 1n34 | 15s43 | 2n25 | 19s50 | 0s35 | 22s 8 | 0n53 | 16n 6 | 7s 5 | 6s23 | 6s 1 | 4n 7 | 13s43 | 7n 6 |
| M 2 | 15 26 | 18 29 | 4 50 | 16 46 | 0 33 | 8 13 | 1 27 | 1 18 | 1 17 | 0 38 | 1 33 | 15 42 | 2 25 | 19 50 | 0 35 | 22 8 | 0 53 | 16 6 | 7 4 | 6 21 | 6 0 | 4 5 | 13 42 | 7 6 |
| T 3 | 15 44 | 18 10 | 5 10 | 16 20 | 0 16 | 8 41 | 1 26 | 0 59 | 1 17 | 0 36 | 1 33 | 15 41 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 6 | 7 4 | 6 20 | 5 59 | 4 3 | 13 42 | 7 7 |
| W 4 | 16 2 | 16 55 | 5 13 | 15 52 | 0s 1 | 9 9 | 1 25 | 0 41 | 1 16 | 0 34 | 1 33 | 15 40 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 7 | 7 4 | 6 19 | 5 58 | 4 1 | 13 41 | 7 7 |
| T 5 | 16 19 | 14 54 | 5 2 | 15 24 | 0 18 | 9 36 | 1 24 | 0 23 | 1 16 | 0 33 | 1 33 | 15 39 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 7 | 7 4 | 6 18 | 5 56 | 3 59 | 13 41 | 7 8 |
| F 6 | 16 36 | 12 16 | 4 38 | 14 57 | 0 36 | 10 3 | 1 23 | 0 4 | 1 16 | 0 31 | 1 33 | 15 37 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 7 | 7 4 | 6 18 | 5 55 | 3 57 | 13 40 | 7 8 |
| S 7 | 16 52 | 9 10 | 4 2 | 14 30 | 0 53 | 10 30 | 1 22 | 0n14 | 1 16 | 0 30 | 1 32 | 15 36 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 7 | 7 4 | 6 18 | 5 54 | 3 56 | 13 40 | 7 9 |
| S 8 | 17 9 | 5 42 | 3 15 | 14 3 | 1 10 | 10 56 | 1 21 | 0 32 | 1 16 | 0 28 | 1 32 | 15 35 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 8 | 7 4 | 6 18 | 5 53 | 3 54 | 13 39 | 7 9 |
| M 9 | 17 25 | 2 2 | 2 21 | 13 38 | 1 26 | 11 23 | 1 19 | 0 51 | 1 16 | 0 27 | 1 32 | 15 34 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 8 | 7 3 | 6 19 | 5 51 | 3 52 | 13 39 | 7 10 |
| T 10 | 17 41 | 1s44 | 1 20 | 13 14 | 1 42 | 11 49 | 1 18 | 1 9 | 1 16 | 0 26 | 1 32 | 15 33 | 2 25 | 19 50 | 0 35 | 22 9 | 0 53 | 16 8 | 7 3 | 6 19 | 5 50 | 3 50 | 13 39 | 7 10 |
| W11 | 17 56 | 5 29 | 0 15 | 12 52 | 1 57 | 12 14 | 1 16 | 1 27 | 1 16 | 0 24 | 1 32 | 15 32 | 2 25 | 19 51 | 0 35 | 22 9 | 0 53 | 16 8 | 7 3 | 6 20 | 5 49 | 3 48 | 13 38 | 7 11 |
| T 12 | 18 11 | 9 4 | 0n51 | 12 32 | 2 11 | 12 40 | 1 15 | 1 45 | 1 16 | 0 23 | 1 31 | 15 31 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 8 | 7 3 | 6 20 | 5 48 | 3 46 | 13 38 | 7 11 |
| F 13 | 18 26 | 12 20 | 1 56 | 12 14 | 2 24 | 13 5 | 1 14 | 2 3 | 1 15 | 0 22 | 1 31 | 15 29 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 9 | 7 3 | 6 19 | 5 47 | 3 44 | 13 37 | 7 12 |
| S 14 | 18 41 | 15 4 | 2 57 | 11 58 | 2 36 | 13 30 | 1 12 | 2 21 | 1 15 | 0 21 | 1 31 | 15 28 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 9 | 7 3 | 6 17 | 5 45 | 3 43 | 13 37 | 7 12 |
| S 15 | 18 55 | 17 8 | 3 49 | 11 44 | 2 48 | 13 55 | 1 10 | 2 39 | 1 15 | 0 20 | 1 31 | 15 27 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 9 | 7 3 | 6 15 | 5 44 | 3 41 | 13 37 | 7 13 |
| M16 | 19 9 | 18 19 | 4 31 | 11 33 | 2 58 | 14 19 | 1 9 | 2 58 | 1 15 | 0 19 | 1 30 | 15 26 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 9 | 7 3 | 6 13 | 5 43 | 3 39 | 13 36 | 7 13 |
| T 17 | 19 23 | 18 31 | 4 58 | 11 24 | 3 7 | 14 43 | 1 7 | 3 15 | 1 15 | 0 19 | 1 30 | 15 25 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 9 | 7 2 | 6 10 | 5 42 | 3 37 | 13 36 | 7 14 |
| W18 | 19 36 | 17 39 | 5 9 | 11 17 | 3 15 | 15 7 | 1 5 | 3 33 | 1 15 | 0 18 | 1 30 | 15 24 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 10 | 7 2 | 6 8 | 5 40 | 3 35 | 13 36 | 7 14 |
| T 19 | 19 49 | 15 45 | 5 3 | 11 14 | 3 22 | 15 30 | 1 3 | 3 51 | 1 14 | 0 17 | 1 30 | 15 23 | 2 25 | 19 51 | 0 36 | 22 9 | 0 53 | 16 10 | 7 2 | 6 6 | 5 39 | 3 33 | 13 36 | 7 15 |
| F 20 | 20 2 | 12 55 | 4 39 | 11 12 | 3 28 | 15 53 | 1 2 | 4 9 | 1 14 | 0 17 | 1 29 | 15 22 | 2 25 | 19 52 | 0 36 | 22 10 | 0 53 | 16 10 | 7 2 | 6 5 | 5 38 | 3 31 | 13 35 | 7 15 |
| S 21 | 20 14 | 9 20 | 3 57 | 11 13 | 3 33 | 16 15 | 1 0 | 4 27 | 1 14 | 0 16 | 1 29 | 15 21 | 2 25 | 19 52 | 0 36 | 22 10 | 0 53 | 16 10 | 7 2 | 6 4 | 5 37 | 3 30 | 13 35 | 7 16 |
| S 22 | 20 26 | 5 10 | 3 1 | 11 16 | 3 37 | 16 37 | 0 58 | 4 45 | 1 14 | 0 16 | 1 29 | 15 19 | 2 24 | 19 52 | 0 36 | 22 10 | 0 53 | 16 10 | 7 2 | 6 4 | 5 35 | 3 28 | 13 35 | 7 16 |
| M23 | 20 38 | 0 42 | 1 54 | 11 21 | 3 40 | 16 59 | 0 56 | 5 2 | 1 14 | 0 15 | 1 29 | 15 18 | 2 24 | 19 52 | 0 36 | 22 10 | 0 53 | 16 11 | 7 2 | 6 5 | 5 34 | 3 26 | 13 35 | 7 17 |
| T 24 | 20 49 | 3n49 | 0 40 | 11 29 | 3 42 | 17 20 | 0 54 | 5 20 | 1 13 | 0 15 | 1 28 | 15 17 | 2 24 | 19 52 | 0 36 | 22 10 | 0 53 | 16 11 | 7 2 | 6 5 | 5 33 | 3 24 | 13 34 | 7 17 |
| W25 | 21 0 | 8 8 | 0s37 | 11 39 | 3 43 | 17 41 | 0 52 | 5 37 | 1 13 | 0 15 | 1 28 | 15 16 | 2 24 | 19 53 | 0 36 | 22 10 | 0 53 | 16 11 | 7 2 | 6 5 | 5 32 | 3 22 | 13 34 | 7 18 |
| T 26 | 21 10 | 11 58 | 1 51 | 11 50 | 3 43 | 18 1 | 0 50 | 5 55 | 1 13 | 0 14 | 1 28 | 15 15 | 2 24 | 19 53 | 0 36 | 22 10 | 0 53 | 16 11 | 7 2 | 6 5 | 5 31 | 3 20 | 13 34 | 7 18 |
| F 27 | 21 20 | 15 4 | 2 58 | 12 4 | 3 42 | 18 21 | 0 48 | 6 12 | 1 12 | 0 14 | 1 28 | 15 14 | 2 24 | 19 53 | 0 36 | 22 10 | 0 53 | 16 11 | 7 1 | 6 3 | 5 29 | 3 18 | 13 34 | 7 19 |
| S 28 | 21 30 | 17 16 | 3 53 | 12 19 | 3 41 | 18 40 | 0 46 | 6 29 | 1 12 | 0 14 | 1 27 | 15 13 | 2 24 | 19 53 | 0 36 | 22 10 | 0 53 | 16 11 | 7 1 | 6 1 | 5 28 | 3 17 | 13 34 | 7 19 |
| S 29 | 21 40 | 18 25 | 4 33 | 12 36 | 3 38 | 18 59 | 0 44 | 6 47 | 1 12 | 0 14 | 1 27 | 15 12 | 2 24 | 19 54 | 0 36 | 22 10 | 0 53 | 16 12 | 7 1 | 5 57 | 5 27 | 3 15 | 13 34 | 7 20 |
| M30 | 21 49 | 18 31 | 4 58 | 12 54 | 3 35 | 19 17 | 0 41 | 7 4 | 1 12 | 0 15 | 1 27 | 15 11 | 2 24 | 19 54 | 0 36 | 22 10 | 0 53 | 16 12 | 7 1 | 5 54 | 5 26 | 3 13 | 13 34 | 7 20 |
| T 31 | 21n58 | 17n37 | 5s 6 | 13n15 | 3s31 | 19n35 | 0s39 | 7n21 | 1s11 | 0s15 | 1n27 | 15s10 | 2n23 | 19s54 | 0s36 | 22s10 | 0n53 | 16n12 | 7s 1 | 5s50 | 5s24 | 3n11 | 13s34 | 7n20 |

Julian Day Number = 2327848.5, Delta T = 35.48 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'47, Lahiri = 19°07'48Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## JUNE 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 39 34 | 10♊45'40 | 27♋13 | 16♉52 | 1♊25 | 22♈23 | 3♎57 | 18°R50 | 3°R52 | 10°R36 | 21♊28 | 14°R40 | 13♎37 | 16♍33 | 27°R 7 | W 1 |
| T 2 | 16 43 31 | 11°43'04 | 9♌36 | 17°55 | 2°39 | 23° 8 | 3°57 | 18♏46 | 3♒51 | 10♑34 | 21°29 | 14♎33 | 13°34 | 16°40 | 27♑ 5 | T 2 |
| F 3 | 16 47 27 | 12°40'27 | 21°45 | 19° 3 | 3°52 | 23°52 | 3°58 | 18°42 | 3°49 | 10°33 | 21°31 | 14°29 | 13°31 | 16°47 | 27° 3 | F 3 |
| S 4 | 16 51 24 | 13°37'48 | 3♍42 | 20°13 | 5° 6 | 24°37 | 3°58 | 18°38 | 3°48 | 10°32 | 21°32 | 14°26 | 13°28 | 16°53 | 27° 1 | S 4 |
| S 5 | 16 55 20 | 14°35'09 | 15°33 | 21°27 | 6°19 | 25°21 | 3°59 | 18°34 | 3°47 | 10°30 | 21°33 | 14°D26 | 13°25 | 17° 0 | 26°58 | S 5 |
| M 6 | 16 59 17 | 15°32'28 | 27°23 | 22°43 | 7°33 | 26° 5 | 4° 0 | 18°30 | 3°46 | 10°29 | 21°35 | 14°26 | 13°22 | 17° 7 | 26°56 | M 6 |
| T 7 | 17 3 13 | 16°29'47 | 9♎16 | 24° 3 | 8°46 | 26°50 | 4° 1 | 18°27 | 3°44 | 10°27 | 21°36 | 14°R27 | 13°18 | 17°13 | 26°54 | T 7 |
| W 8 | 17 7 10 | 17°27'04 | 21°19 | 25°26 | 10° 0 | 27°34 | 4° 3 | 18°23 | 3°43 | 10°26 | 21°38 | 14°27 | 13°15 | 17°20 | 26°51 | W 8 |
| T 9 | 17 11 6 | 18°24'21 | 3♏35 | 26°52 | 11°14 | 28°18 | 4° 4 | 18°20 | 3°41 | 10°24 | 21°39 | 14°25 | 13°12 | 17°27 | 26°49 | T 9 |
| F 10 | 17 15 3 | 19°21'37 | 16° 9 | 28°21 | 12°27 | 29° 2 | 4° 6 | 18°16 | 3°40 | 10°23 | 21°40 | 14°21 | 13° 9 | 17°33 | 26°46 | F 10 |
| S 11 | 17 19 0 | 20°18'52 | 29° 2 | 29°53 | 13°41 | 29°47 | 4° 8 | 18°13 | 3°38 | 10°21 | 21°42 | 14°15 | 13° 6 | 17°40 | 26°44 | S 11 |
| S 12 | 17 22 56 | 21°16'07 | 12♐16 | 1♊27 | 14°54 | 0♉31 | 4°10 | 18° 9 | 3°37 | 10°20 | 21°43 | 14° 6 | 13° 2 | 17°47 | 26°41 | S 12 |
| M13 | 17 26 53 | 22°13'21 | 25°50 | 3° 5 | 16° 8 | 1°15 | 4°12 | 18° 6 | 3°35 | 10°18 | 21°45 | 13°56 | 12°59 | 17°53 | 26°39 | M13 |
| T 14 | 17 30 49 | 23°10'34 | 9♑40 | 4°46 | 17°21 | 1°58 | 4°15 | 18° 3 | 3°34 | 10°17 | 21°46 | 13°45 | 12°56 | 18° 0 | 26°36 | T 14 |
| W15 | 17 34 46 | 24° 7'47 | 23°44 | 6°30 | 18°35 | 2°42 | 4°17 | 17°59 | 3°32 | 10°15 | 21°48 | 13°35 | 12°53 | 18° 7 | 26°33 | W15 |
| T 16 | 17 38 42 | 25° 5'00 | 7♒56 | 8°16 | 19°49 | 3°26 | 4°20 | 17°56 | 3°30 | 10°14 | 21°49 | 13°27 | 12°50 | 18°13 | 26°31 | T 16 |
| F 17 | 17 42 39 | 26° 2'13 | 22°11 | 10° 5 | 21° 2 | 4°10 | 4°23 | 17°53 | 3°29 | 10°12 | 21°50 | 13°20 | 12°47 | 18°20 | 26°28 | F 17 |
| S 18 | 17 46 35 | 26°59'25 | 6♓26 | 11°57 | 22°16 | 4°54 | 4°26 | 17°50 | 3°27 | 10°11 | 21°52 | 13°17 | 12°43 | 18°27 | 26°25 | S 18 |
| S 19 | 17 50 32 | 27°56'37 | 20°38 | 13°52 | 23°29 | 5°37 | 4°29 | 17°47 | 3°25 | 10° 9 | 21°53 | 13°16 | 12°40 | 18°33 | 26°22 | S 19 |
| M20 | 17 54 29 | 28°53'50 | 4♈46 | 15°48 | 24°43 | 6°21 | 4°33 | 17°45 | 3°23 | 10° 8 | 21°55 | 13°D15 | 12°37 | 18°40 | 26°19 | M20 |
| T 21 | 17 58 25 | 29°51'02 | 18°47 | 17°48 | 25°57 | 7° 4 | 4°36 | 17°42 | 3°22 | 10° 6 | 21°56 | 13°R15 | 12°34 | 18°47 | 26°16 | T 21 |
| W22 | 18 2 22 | 0♋48'14 | 2♉43 | 19°49 | 27°10 | 7°47 | 4°40 | 17°39 | 3°20 | 10° 4 | 21°58 | 13°14 | 12°31 | 18°53 | 26°13 | W22 |
| T 23 | 18 6 18 | 1°45'27 | 16°31 | 21°53 | 28°24 | 8°31 | 4°44 | 17°37 | 3°18 | 10° 3 | 21°59 | 13°11 | 12°27 | 19° 0 | 26°10 | T 23 |
| F 24 | 18 10 15 | 2°42'39 | 0♊10 | 23°58 | 29°38 | 9°14 | 4°48 | 17°34 | 3°16 | 10° 1 | 22° 0 | 13° 5 | 12°24 | 19° 7 | 26° 7 | F 24 |
| S 25 | 18 14 11 | 3°39'52 | 13°40 | 26° 5 | 0♋51 | 9°57 | 4°52 | 17°32 | 3°14 | 10° 0 | 22° 2 | 12°56 | 12°21 | 19°13 | 26° 4 | S 25 |
| S 26 | 18 18 8 | 4°37'05 | 26°57 | 28°13 | 2° 5 | 10°40 | 4°56 | 17°29 | 3°12 | 9°58 | 22° 3 | 12°45 | 12°18 | 19°20 | 26° 0 | S 26 |
| M27 | 18 22 5 | 5°34'17 | 10♋ 1 | 0♋22 | 3°19 | 11°23 | 5° 1 | 17°27 | 3°10 | 9°56 | 22° 5 | 12°33 | 12°15 | 19°27 | 25°57 | M27 |
| T 28 | 18 26 1 | 6°31'30 | 22°49 | 2°32 | 4°33 | 12° 6 | 5° 6 | 17°25 | 3° 8 | 9°55 | 22° 6 | 12°20 | 12°12 | 19°33 | 25°54 | T 28 |
| W29 | 18 29 58 | 7°28'42 | 5♌22 | 4°42 | 5°46 | 12°49 | 5°11 | 17°23 | 3° 6 | 9°53 | 22° 7 | 12° 8 | 12° 8 | 19°40 | 25°51 | W29 |
| T 30 | 18 33 54 | 8♋25'54 | 17♌40 | 6♋53 | 7♋ 0 | 13♉32 | 5♎16 | 17♏21 | 3♒ 4 | 9♑52 | 22♊ 9 | 11♎58 | 12♎ 5 | 19♍47 | 25♑48 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 22n 6 | 15n52 | 4s59 | 13n36 | 3s27 | 19n53 | 0s37 | 7n38 | 1s11 | 0s15 | 1n26 | 15s 9 | 2n23 | 19s54 | 0s36 | 22s11 | 0n53 | 16n12 | 7s 1 | 5s47 | 5s23 | 3n 9 | 13s33 | 7n21 |
| T 2 | 22 14 | 13 25 | 4 38 | 13 59 | 3 21 | 20 9 | 0 35 | 7 55 | 1 11 | 0 15 | 1 26 | 15 8 | 2 23 | 19 55 | 0 36 | 22 11 | 0 53 | 16 12 | 7 1 | 5 45 | 5 22 | 3 7 | 13 33 | 7 21 |
| F 3 | 22 21 | 10 26 | 4 4 | 14 23 | 3 15 | 20 26 | 0 33 | 8 11 | 1 10 | 0 16 | 1 26 | 15 7 | 2 23 | 19 55 | 0 36 | 22 11 | 0 53 | 16 12 | 7 1 | 5 43 | 5 21 | 3 5 | 13 33 | 7 22 |
| S 4 | 22 29 | 7 3 | 3 20 | 14 48 | 3 9 | 20 41 | 0 30 | 8 28 | 1 10 | 0 16 | 1 26 | 15 7 | 2 23 | 19 55 | 0 36 | 22 11 | 0 53 | 16 13 | 7 1 | 5 42 | 5 19 | 3 4 | 13 33 | 7 22 |
| S 5 | 22 35 | 3 25 | 2 28 | 15 14 | 3 2 | 20 57 | 0 28 | 8 45 | 1 10 | 0 17 | 1 25 | 15 6 | 2 23 | 19 56 | 0 36 | 22 11 | 0 53 | 16 13 | 7 1 | 5 42 | 5 18 | 3 2 | 13 33 | 7 23 |
| M 6 | 22 42 | 0s20 | 1 30 | 15 41 | 2 54 | 21 11 | 0 26 | 9 1 | 1 9 | 0 18 | 1 25 | 15 5 | 2 23 | 19 56 | 0 36 | 22 11 | 0 53 | 16 13 | 7 1 | 5 42 | 5 17 | 3 0 | 13 33 | 7 23 |
| T 7 | 22 48 | 4 6 | 0 28 | 16 8 | 2 46 | 21 25 | 0 23 | 9 17 | 1 9 | 0 18 | 1 25 | 15 4 | 2 22 | 19 56 | 0 36 | 22 11 | 0 53 | 16 13 | 7 1 | 5 42 | 5 16 | 2 58 | 13 33 | 7 23 |
| W 8 | 22 53 | 7 46 | 0n37 | 16 37 | 2 37 | 21 39 | 0 21 | 9 34 | 1 9 | 0 19 | 1 25 | 15 3 | 2 22 | 19 57 | 0 36 | 22 11 | 0 53 | 16 13 | 7 1 | 5 42 | 5 14 | 2 56 | 13 34 | 7 24 |
| T 9 | 22 58 | 11 10 | 1 40 | 17 5 | 2 28 | 21 51 | 0 19 | 9 50 | 1 8 | 0 20 | 1 24 | 15 2 | 2 22 | 19 57 | 0 36 | 22 11 | 0 53 | 16 13 | 7 1 | 5 42 | 5 13 | 2 54 | 13 34 | 7 24 |
| F 10 | 23 3 | 14 8 | 2 41 | 17 35 | 2 18 | 22 4 | 0 16 | 10 6 | 1 8 | 0 21 | 1 24 | 15 2 | 2 22 | 19 57 | 0 36 | 22 12 | 0 53 | 16 13 | 7 0 | 5 40 | 5 12 | 2 52 | 13 34 | 7 24 |
| S 11 | 23 8 | 16 30 | 3 34 | 18 4 | 2 8 | 22 15 | 0 14 | 10 22 | 1 7 | 0 22 | 1 24 | 15 1 | 2 22 | 19 58 | 0 36 | 22 12 | 0 53 | 16 14 | 7 0 | 5 38 | 5 11 | 2 51 | 13 34 | 7 25 |
| S 12 | 23 12 | 18 3 | 4 18 | 18 34 | 1 58 | 22 26 | 0 11 | 10 38 | 1 7 | 0 23 | 1 23 | 15 0 | 2 22 | 19 58 | 0 37 | 22 12 | 0 53 | 16 14 | 7 0 | 5 34 | 5 9 | 2 49 | 13 34 | 7 25 |
| M13 | 23 15 | 18 37 | 4 48 | 19 3 | 1 47 | 22 36 | 0 9 | 10 53 | 1 7 | 0 24 | 1 23 | 14 59 | 2 21 | 19 59 | 0 37 | 22 12 | 0 53 | 16 14 | 7 0 | 5 30 | 5 8 | 2 47 | 13 34 | 7 26 |
| T 14 | 23 18 | 18 7 | 5 2 | 19 33 | 1 36 | 22 46 | 0 7 | 11 9 | 1 6 | 0 25 | 1 23 | 14 59 | 2 21 | 19 59 | 0 37 | 22 12 | 0 53 | 16 14 | 7 0 | 5 26 | 5 7 | 2 45 | 13 34 | 7 26 |
| W15 | 23 21 | 16 30 | 4 58 | 20 2 | 1 25 | 22 55 | 0 4 | 11 24 | 1 6 | 0 27 | 1 23 | 14 58 | 2 21 | 19 59 | 0 37 | 22 12 | 0 53 | 16 14 | 7 0 | 5 22 | 5 6 | 2 43 | 13 34 | 7 26 |
| T 16 | 23 23 | 13 53 | 4 36 | 20 30 | 1 14 | 23 3 | 0 2 | 11 40 | 1 5 | 0 28 | 1 22 | 14 57 | 2 21 | 20 0 | 0 37 | 22 12 | 0 53 | 16 14 | 7 0 | 5 19 | 5 5 | 2 41 | 13 35 | 7 26 |
| F 17 | 23 25 | 10 25 | 3 56 | 20 58 | 1 2 | 23 11 | 0n 1 | 11 55 | 1 5 | 0 29 | 1 22 | 14 57 | 2 21 | 20 0 | 0 37 | 22 12 | 0 53 | 16 14 | 7 0 | 5 17 | 5 3 | 2 39 | 13 35 | 7 27 |
| S 18 | 23 27 | 6 20 | 3 2 | 21 25 | 0 51 | 23 18 | 0 3 | 12 10 | 1 4 | 0 31 | 1 22 | 14 56 | 2 20 | 20 1 | 0 37 | 22 13 | 0 53 | 16 14 | 7 0 | 5 15 | 5 2 | 2 38 | 13 35 | 7 27 |
| S 19 | 23 28 | 1 55 | 1 57 | 21 51 | 0 39 | 23 24 | 0 5 | 12 25 | 1 4 | 0 32 | 1 22 | 14 55 | 2 20 | 20 1 | 0 37 | 22 13 | 0 53 | 16 15 | 7 0 | 5 15 | 5 1 | 2 36 | 13 35 | 7 27 |
| M20 | 23 29 | 2n35 | 0 45 | 22 16 | 0 27 | 23 30 | 0 8 | 12 40 | 1 3 | 0 34 | 1 21 | 14 55 | 2 20 | 20 2 | 0 37 | 22 13 | 0 53 | 16 15 | 7 0 | 5 15 | 5 0 | 2 34 | 13 36 | 7 28 |
| T 21 | 23 29 | 6 55 | 0s29 | 22 39 | 0 16 | 23 35 | 0 10 | 12 54 | 1 3 | 0 35 | 1 21 | 14 54 | 2 20 | 20 2 | 0 37 | 22 13 | 0 53 | 16 15 | 7 0 | 5 15 | 4 58 | 2 32 | 13 36 | 7 28 |
| W22 | 23 29 | 10 51 | 1 41 | 23 1 | 0 5 | 23 39 | 0 12 | 13 9 | 1 2 | 0 37 | 1 21 | 14 54 | 2 20 | 20 3 | 0 37 | 22 13 | 0 53 | 16 15 | 7 0 | 5 14 | 4 57 | 2 30 | 13 36 | 7 28 |
| T 23 | 23 28 | 14 9 | 2 46 | 23 20 | 0n 7 | 23 43 | 0 15 | 13 23 | 1 2 | 0 39 | 1 21 | 14 53 | 2 19 | 20 3 | 0 37 | 22 13 | 0 53 | 16 15 | 7 0 | 5 13 | 4 56 | 2 28 | 13 36 | 7 28 |
| F 24 | 23 27 | 16 37 | 3 41 | 23 38 | 0 17 | 23 46 | 0 17 | 13 38 | 1 1 | 0 41 | 1 20 | 14 53 | 2 19 | 20 3 | 0 37 | 22 13 | 0 53 | 16 15 | 7 0 | 5 10 | 4 55 | 2 26 | 13 37 | 7 29 |
| S 25 | 23 26 | 18 8 | 4 23 | 23 53 | 0 28 | 23 48 | 0 19 | 13 52 | 1 1 | 0 43 | 1 20 | 14 52 | 2 19 | 20 4 | 0 37 | 22 13 | 0 53 | 16 15 | 7 0 | 5 7 | 4 53 | 2 25 | 13 37 | 7 29 |
| S 26 | 23 24 | 18 37 | 4 49 | 24 6 | 0 38 | 23 50 | 0 22 | 14 6 | 1 0 | 0 45 | 1 20 | 14 52 | 2 19 | 20 4 | 0 37 | 22 14 | 0 53 | 16 15 | 7 0 | 5 3 | 4 52 | 2 23 | 13 37 | 7 29 |
| M27 | 23 22 | 18 7 | 5 0 | 24 16 | 0 47 | 23 50 | 0 24 | 14 20 | 1 0 | 0 47 | 1 20 | 14 51 | 2 18 | 20 5 | 0 37 | 22 14 | 0 53 | 16 15 | 7 0 | 4 58 | 4 51 | 2 21 | 13 38 | 7 29 |
| T 28 | 23 19 | 16 41 | 4 56 | 24 24 | 0 56 | 23 50 | 0 26 | 14 33 | 0 59 | 0 49 | 1 19 | 14 51 | 2 18 | 20 5 | 0 37 | 22 14 | 0 53 | 16 15 | 7 0 | 4 53 | 4 50 | 2 19 | 13 38 | 7 30 |
| W29 | 23 16 | 14 29 | 4 37 | 24 29 | 1 5 | 23 50 | 0 28 | 14 47 | 0 59 | 0 51 | 1 19 | 14 51 | 2 18 | 20 6 | 0 37 | 22 14 | 0 53 | 16 16 | 7 0 | 4 48 | 4 48 | 2 17 | 13 39 | 7 30 |
| T 30 | 23n13 | 11n40 | 4s 5 | 24n31 | 1n13 | 23n48 | 0n31 | 15n 0 | 0s58 | 0s53 | 1n19 | 14s50 | 2n18 | 20s 6 | 0s37 | 22s14 | 0n53 | 16n16 | 7s 0 | 4s45 | 4s47 | 2n15 | 13s39 | 7n30 |

Julian Day Number = 2327879.5, Delta T = 35.42 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'51, Lahiri = 19°07'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## JULY 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 37 51 | 9♋23'06 | 29♌45 | 9♋ 3 | 8♋14 | 14♉15 | 5♎21 | 17°R19 | 3°R 2 | 9°R50 | 22♊10 | 11°R51 | 12♎ 2 | 19♍53 | 25°R44 | F 1 |
| S 2 | 18 41 47 | 10°20'18 | 11♍40 | 11°13 | 9°28 | 14°57 | 5°26 | 17♏17 | 2♒59 | 9♑48 | 22°11 | 11♎47 | 11°59 | 20° 0 | 25♑41 | S 2 |
| S 3 | 18 45 44 | 11°17'30 | 23°29 | 13°22 | 10°41 | 15°40 | 5°32 | 17°15 | 2°57 | 9°47 | 22°13 | 11°44 | 11°56 | 20° 7 | 25°38 | S 3 |
| M 4 | 18 49 40 | 12°14'42 | 5♎17 | 15°30 | 11°55 | 16°22 | 5°37 | 17°14 | 2°55 | 9°45 | 22°14 | 11°44 | 11°53 | 20°13 | 25°34 | M 4 |
| T 5 | 18 53 37 | 13°11'53 | 17°10 | 17°38 | 13° 9 | 17° 5 | 5°43 | 17°12 | 2°53 | 9°43 | 22°16 | 11°44 | 11°49 | 20°20 | 25°31 | T 5 |
| W 6 | 18 57 34 | 14° 9'05 | 29°13 | 19°44 | 14°23 | 17°47 | 5°49 | 17°11 | 2°51 | 9°42 | 22°17 | 11°43 | 11°46 | 20°27 | 25°27 | W 6 |
| T 7 | 19 1 30 | 15° 6'16 | 11♏31 | 21°48 | 15°37 | 18°29 | 5°55 | 17° 9 | 2°48 | 9°40 | 22°18 | 11°41 | 11°43 | 20°33 | 25°24 | T 7 |
| F 8 | 19 5 27 | 16° 3'28 | 24° 9 | 23°51 | 16°50 | 19°11 | 6° 1 | 17° 8 | 2°46 | 9°39 | 22°20 | 11°37 | 11°40 | 20°40 | 25°20 | F 8 |
| S 9 | 19 9 23 | 17° 0'40 | 7♐10 | 25°53 | 18° 4 | 19°53 | 6° 7 | 17° 7 | 2°44 | 9°37 | 22°21 | 11°30 | 11°37 | 20°47 | 25°17 | S 9 |
| S 10 | 19 13 20 | 17°57'51 | 20°37 | 27°53 | 19°18 | 20°35 | 6°14 | 17° 6 | 2°42 | 9°35 | 22°22 | 11°21 | 11°33 | 20°53 | 25°13 | S 10 |
| M11 | 19 17 16 | 18°55'04 | 4♑27 | 29°51 | 20°32 | 21°17 | 6°20 | 17° 5 | 2°39 | 9°34 | 22°23 | 11°11 | 11°30 | 21° 0 | 25°10 | M11 |
| T 12 | 19 21 13 | 19°52'16 | 18°39 | 1♌48 | 21°46 | 21°59 | 6°27 | 17° 4 | 2°37 | 9°32 | 22°25 | 10°59 | 11°27 | 21° 6 | 25° 7 | T 12 |
| W13 | 19 25 9 | 20°49'29 | 3♒ 7 | 3°43 | 22°59 | 22°41 | 6°34 | 17° 3 | 2°35 | 9°31 | 22°26 | 10°48 | 11°24 | 21°13 | 25° 3 | W13 |
| T 14 | 19 29 6 | 21°46'42 | 17°45 | 5°36 | 24°13 | 23°22 | 6°41 | 17° 2 | 2°32 | 9°29 | 22°27 | 10°39 | 11°21 | 21°20 | 25° 0 | T 14 |
| F 15 | 19 33 3 | 22°43'56 | 2♓24 | 7°27 | 25°27 | 24° 4 | 6°48 | 17° 2 | 2°30 | 9°27 | 22°29 | 10°33 | 11°18 | 21°26 | 24°56 | F 15 |
| S 16 | 19 36 59 | 23°41'11 | 16°59 | 9°17 | 26°41 | 24°45 | 6°55 | 17° 1 | 2°28 | 9°26 | 22°30 | 10°29 | 11°14 | 21°33 | 24°52 | S 16 |
| S 17 | 19 40 56 | 24°38'26 | 1♈24 | 11° 4 | 27°55 | 25°27 | 7° 3 | 17° 1 | 2°25 | 9°24 | 22°31 | 10°27 | 11°11 | 21°40 | 24°49 | S 17 |
| M18 | 19 44 52 | 25°35'43 | 15°37 | 12°50 | 29° 9 | 26° 8 | 7°10 | 17° 0 | 2°23 | 9°23 | 22°32 | 10°D27 | 11° 8 | 21°46 | 24°45 | M18 |
| T 19 | 19 48 49 | 26°33'00 | 29°37 | 14°34 | 0♌23 | 26°49 | 7°18 | 17° 0 | 2°21 | 9°21 | 22°34 | 10°R27 | 11° 5 | 21°53 | 24°42 | T 19 |
| W20 | 19 52 45 | 27°30'18 | 13♉23 | 16°17 | 1°37 | 27°30 | 7°26 | 17° 0 | 2°18 | 9°20 | 22°35 | 10°26 | 11° 2 | 22° 0 | 24°38 | W20 |
| T 21 | 19 56 42 | 28°27'38 | 26°55 | 17°57 | 2°51 | 28°11 | 7°33 | 17°D 0 | 2°16 | 9°18 | 22°36 | 10°23 | 10°59 | 22° 6 | 24°35 | T 21 |
| F 22 | 20 0 38 | 29°24'58 | 10♊16 | 19°36 | 4° 5 | 28°52 | 7°41 | 17° 0 | 2°13 | 9°17 | 22°37 | 10°18 | 10°55 | 22°13 | 24°31 | F 22 |
| S 23 | 20 4 35 | 0♌22'19 | 23°24 | 21°13 | 5°19 | 29°33 | 7°50 | 17° 0 | 2°11 | 9°15 | 22°38 | 10°10 | 10°52 | 22°20 | 24°28 | S 23 |
| S 24 | 20 8 32 | 1°19'41 | 6♋20 | 22°48 | 6°33 | 0♊14 | 7°58 | 17° 0 | 2° 9 | 9°14 | 22°39 | 10° 0 | 10°49 | 22°26 | 24°24 | S 24 |
| M25 | 20 12 28 | 2°17'05 | 19° 3 | 24°22 | 7°47 | 0°54 | 8° 6 | 17° 1 | 2° 6 | 9°12 | 22°41 | 9°48 | 10°46 | 22°33 | 24°21 | M25 |
| T 26 | 20 16 25 | 3°14'29 | 1♌35 | 25°54 | 9° 1 | 1°35 | 8°15 | 17° 1 | 2° 4 | 9°11 | 22°42 | 9°36 | 10°43 | 22°40 | 24°18 | T 26 |
| W27 | 20 20 21 | 4°11'54 | 13°54 | 27°24 | 10°15 | 2°15 | 8°23 | 17° 2 | 2° 1 | 9° 9 | 22°43 | 9°26 | 10°39 | 22°46 | 24°14 | W27 |
| T 28 | 20 24 18 | 5° 9'19 | 26° 3 | 28°52 | 11°29 | 2°56 | 8°32 | 17° 2 | 1°59 | 9° 8 | 22°44 | 9°16 | 10°36 | 22°53 | 24°11 | T 28 |
| F 29 | 20 28 14 | 6° 6'46 | 8♍ 1 | 0♍18 | 12°43 | 3°36 | 8°41 | 17° 3 | 1°57 | 9° 7 | 22°45 | 9°10 | 10°33 | 23° 0 | 24° 7 | F 29 |
| S 30 | 20 32 11 | 7° 4'13 | 19°52 | 1°43 | 13°57 | 4°16 | 8°49 | 17° 4 | 1°54 | 9° 5 | 22°46 | 9° 5 | 10°30 | 23° 6 | 24° 4 | S 30 |
| S 31 | 20 36 7 | 8♌ 1'41 | 1♎39 | 3♍ 5 | 15♌11 | 4♊56 | 8♎58 | 17♏ 5 | 1♒52 | 9♑ 4 | 22♊47 | 9♎ 3 | 10♎27 | 23♍13 | 24♑ 1 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n 9 | 8n25 | 3s23 | 24n30 | 1n20 | 23n46 | 0n33 | 15n14 | 0s58 | 0s55 | 1n19 | 14s50 | 2n18 | 20s 7 | 0s37 | 22s14 | 0n53 | 16n16 | 7s 0 | 4s42 | 4s46 | 2n13 | 13s39 | 7n30 |
| S 2 | 23 5 | 4 51 | 2 32 | 24 26 | 1 26 | 23 44 | 0 35 | 15 27 | 0 57 | 0 58 | 1 18 | 14 50 | 2 17 | 20 7 | 0 37 | 22 14 | 0 53 | 16 16 | 7 0 | 4 40 | 4 45 | 2 12 | 13 40 | 7 30 |
| S 3 | 23 0 | 1 8 | 1 35 | 24 20 | 1 32 | 23 40 | 0 37 | 15 40 | 0 56 | 1 0 | 1 18 | 14 49 | 2 17 | 20 8 | 0 37 | 22 14 | 0 53 | 16 16 | 7 0 | 4 39 | 4 43 | 2 10 | 13 40 | 7 30 |
| M 4 | 22 55 | 2s38 | 0 34 | 24 10 | 1 36 | 23 36 | 0 39 | 15 52 | 0 56 | 1 3 | 1 18 | 14 49 | 2 17 | 20 8 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 39 | 4 42 | 2 8 | 13 41 | 7 31 |
| T 5 | 22 49 | 6 19 | 0n29 | 23 59 | 1 41 | 23 31 | 0 41 | 16 5 | 0 55 | 1 5 | 1 18 | 14 49 | 2 17 | 20 9 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 39 | 4 41 | 2 6 | 13 41 | 7 31 |
| W 6 | 22 44 | 9 47 | 1 31 | 23 44 | 1 44 | 23 25 | 0 44 | 16 17 | 0 55 | 1 8 | 1 17 | 14 49 | 2 16 | 20 10 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 38 | 4 40 | 2 4 | 13 42 | 7 31 |
| T 7 | 22 37 | 12 55 | 2 31 | 23 28 | 1 47 | 23 19 | 0 46 | 16 30 | 0 54 | 1 10 | 1 17 | 14 49 | 2 16 | 20 10 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 38 | 4 38 | 2 2 | 13 42 | 7 31 |
| F 8 | 22 31 | 15 32 | 3 25 | 23 9 | 1 48 | 23 12 | 0 48 | 16 42 | 0 53 | 1 13 | 1 17 | 14 48 | 2 16 | 20 11 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 36 | 4 37 | 2 0 | 13 43 | 7 31 |
| S 9 | 22 24 | 17 27 | 4 9 | 22 48 | 1 50 | 23 5 | 0 50 | 16 54 | 0 53 | 1 16 | 1 17 | 14 48 | 2 16 | 20 11 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 33 | 4 36 | 1 59 | 13 43 | 7 31 |
| S 10 | 22 16 | 18 28 | 4 42 | 22 25 | 1 50 | 22 56 | 0 51 | 17 6 | 0 52 | 1 18 | 1 17 | 14 48 | 2 15 | 20 12 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 30 | 4 35 | 1 57 | 13 44 | 7 31 |
| M11 | 22 9 | 18 25 | 4 59 | 22 0 | 1 50 | 22 47 | 0 53 | 17 17 | 0 51 | 1 21 | 1 16 | 14 48 | 2 15 | 20 12 | 0 37 | 22 15 | 0 53 | 16 16 | 7 0 | 4 26 | 4 33 | 1 55 | 13 44 | 7 31 |
| T 12 | 22 0 | 17 15 | 4 58 | 21 34 | 1 49 | 22 38 | 0 55 | 17 29 | 0 51 | 1 24 | 1 16 | 14 48 | 2 15 | 20 13 | 0 37 | 22 16 | 0 53 | 16 16 | 7 0 | 4 21 | 4 32 | 1 53 | 13 45 | 7 31 |
| W13 | 21 52 | 14 58 | 4 39 | 21 6 | 1 48 | 22 27 | 0 57 | 17 40 | 0 50 | 1 27 | 1 16 | 14 48 | 2 15 | 20 13 | 0 37 | 22 16 | 0 53 | 16 16 | 7 0 | 4 17 | 4 31 | 1 51 | 13 45 | 7 31 |
| T 14 | 21 43 | 11 43 | 4 1 | 20 36 | 1 45 | 22 16 | 0 59 | 17 51 | 0 49 | 1 30 | 1 16 | 14 48 | 2 14 | 20 14 | 0 37 | 22 16 | 0 53 | 16 16 | 7 0 | 4 13 | 4 30 | 1 49 | 13 46 | 7 31 |
| F 15 | 21 34 | 7 44 | 3 7 | 20 6 | 1 43 | 22 5 | 1 0 | 18 2 | 0 49 | 1 33 | 1 15 | 14 48 | 2 14 | 20 14 | 0 37 | 22 16 | 0 53 | 16 17 | 7 0 | 4 11 | 4 29 | 1 47 | 13 46 | 7 31 |
| S 16 | 21 24 | 3 18 | 2 1 | 19 34 | 1 40 | 21 52 | 1 2 | 18 13 | 0 48 | 1 36 | 1 15 | 14 48 | 2 14 | 20 15 | 0 37 | 22 16 | 0 53 | 16 17 | 7 0 | 4 9 | 4 27 | 1 46 | 13 47 | 7 32 |
| S 17 | 21 14 | 1n17 | 0 48 | 19 1 | 1 36 | 21 39 | 1 4 | 18 24 | 0 47 | 1 39 | 1 15 | 14 49 | 2 14 | 20 15 | 0 37 | 22 16 | 0 53 | 16 17 | 7 0 | 4 9 | 4 26 | 1 44 | 13 48 | 7 32 |
| M18 | 21 4 | 5 44 | 0s27 | 18 27 | 1 31 | 21 26 | 1 5 | 18 34 | 0 46 | 1 42 | 1 15 | 14 49 | 2 13 | 20 16 | 0 37 | 22 16 | 0 53 | 16 17 | 7 0 | 4 9 | 4 25 | 1 42 | 13 48 | 7 32 |
| T 19 | 20 53 | 9 48 | 1 40 | 17 52 | 1 27 | 21 12 | 1 7 | 18 44 | 0 46 | 1 46 | 1 15 | 14 49 | 2 13 | 20 17 | 0 37 | 22 16 | 0 53 | 16 17 | 7 0 | 4 9 | 4 24 | 1 40 | 13 49 | 7 31 |
| W20 | 20 42 | 13 15 | 2 45 | 17 17 | 1 21 | 20 57 | 1 8 | 18 54 | 0 45 | 1 49 | 1 14 | 14 49 | 2 13 | 20 17 | 0 37 | 22 17 | 0 53 | 16 17 | 7 0 | 4 8 | 4 22 | 1 38 | 13 49 | 7 31 |
| T 21 | 20 30 | 15 56 | 3 40 | 16 41 | 1 16 | 20 41 | 1 10 | 19 4 | 0 44 | 1 52 | 1 14 | 14 49 | 2 13 | 20 18 | 0 37 | 22 17 | 0 53 | 16 17 | 7 0 | 4 7 | 4 21 | 1 36 | 13 50 | 7 31 |
| F 22 | 20 18 | 17 42 | 4 22 | 16 4 | 1 10 | 20 25 | 1 11 | 19 14 | 0 44 | 1 55 | 1 14 | 14 50 | 2 12 | 20 18 | 0 37 | 22 17 | 0 53 | 16 17 | 7 0 | 4 5 | 4 20 | 1 34 | 13 51 | 7 31 |
| S 23 | 20 6 | 18 29 | 4 50 | 15 27 | 1 3 | 20 9 | 1 12 | 19 24 | 0 43 | 1 59 | 1 14 | 14 50 | 2 12 | 20 19 | 0 37 | 22 17 | 0 53 | 16 17 | 7 0 | 4 2 | 4 19 | 1 33 | 13 51 | 7 31 |
| S 24 | 19 54 | 18 18 | 5 2 | 14 50 | 0 56 | 19 51 | 1 14 | 19 33 | 0 42 | 2 2 | 1 14 | 14 50 | 2 12 | 20 19 | 0 37 | 22 17 | 0 53 | 16 17 | 7 0 | 3 58 | 4 17 | 1 31 | 13 52 | 7 31 |
| M25 | 19 41 | 17 12 | 4 59 | 14 12 | 0 49 | 19 34 | 1 15 | 19 42 | 0 41 | 2 6 | 1 13 | 14 51 | 2 11 | 20 20 | 0 37 | 22 17 | 0 53 | 16 17 | 7 1 | 3 53 | 4 16 | 1 29 | 13 53 | 7 31 |
| T 26 | 19 28 | 15 16 | 4 41 | 13 34 | 0 42 | 19 15 | 1 16 | 19 51 | 0 40 | 2 9 | 1 13 | 14 51 | 2 11 | 20 20 | 0 37 | 22 17 | 0 53 | 16 17 | 7 1 | 3 49 | 4 15 | 1 27 | 13 53 | 7 31 |
| W27 | 19 14 | 12 41 | 4 10 | 12 56 | 0 34 | 18 57 | 1 17 | 20 0 | 0 40 | 2 13 | 1 13 | 14 51 | 2 11 | 20 21 | 0 37 | 22 17 | 0 52 | 16 17 | 7 1 | 3 44 | 4 14 | 1 25 | 13 54 | 7 31 |
| T 28 | 19 1 | 9 35 | 3 29 | 12 17 | 0 26 | 18 37 | 1 18 | 20 9 | 0 39 | 2 16 | 1 13 | 14 52 | 2 11 | 20 21 | 0 37 | 22 18 | 0 52 | 16 17 | 7 1 | 3 41 | 4 12 | 1 23 | 13 55 | 7 31 |
| F 29 | 18 47 | 6 8 | 2 38 | 11 39 | 0 17 | 18 17 | 1 19 | 20 17 | 0 38 | 2 20 | 1 13 | 14 52 | 2 10 | 20 22 | 0 37 | 22 18 | 0 52 | 16 17 | 7 1 | 3 38 | 4 11 | 1 21 | 13 55 | 7 31 |
| S 30 | 18 32 | 2 28 | 1 41 | 11 1 | 0 8 | 17 57 | 1 20 | 20 25 | 0 37 | 2 24 | 1 12 | 14 53 | 2 10 | 20 23 | 0 37 | 22 18 | 0 52 | 16 17 | 7 1 | 3 37 | 4 10 | 1 20 | 13 56 | 7 31 |
| S 31 | 18n18 | 1s16 | 0s40 | 10n23 | 0s 1 | 17n36 | 1n21 | 20n34 | 0s36 | 2s27 | 1n12 | 14s53 | 2n10 | 20s23 | 0s37 | 22s18 | 0n52 | 16n17 | 7s 1 | 3s36 | 4s 9 | 1n18 | 13s57 | 7n30 |

Julian Day Number = 2327909.5, Delta T = 35.37 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°00'55, Lahiri = 19°07'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## AUGUST 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 40 4 | 8♌59'10 | 13♎26 | 4♍26 | 16♌25 | 5♊36 | 9♎ 8 | 17♏ 6 | 1°R49 | 9°R 2 | 22♊48 | 9°D 3 | 10♎24 | 23♍20 | 23°R57 | M 1 |
| T 2 | 20 44 1 | 9°56'40 | 25°18 | 5°45 | 17°39 | 6°16 | 9°17 | 17° 7 | 1♒47 | 9♑ 1 | 22°49 | 9♎ 4 | 10°20 | 23°26 | 23♑54 | T 2 |
| W 3 | 20 47 57 | 10°54'10 | 7♏20 | 7° 2 | 18°53 | 6°55 | 9°26 | 17° 8 | 1°45 | 9° 0 | 22°50 | 9°R 5 | 10°17 | 23°33 | 23°51 | W 3 |
| T 4 | 20 51 54 | 11°51'42 | 19°37 | 8°17 | 20° 7 | 7°35 | 9°36 | 17°10 | 1°42 | 8°58 | 22°51 | 9° 4 | 10°14 | 23°39 | 23°47 | T 4 |
| F 5 | 20 55 50 | 12°49'14 | 2♐14 | 9°30 | 21°21 | 8°14 | 9°45 | 17°11 | 1°40 | 8°57 | 22°52 | 9° 2 | 10°11 | 23°46 | 23°44 | F 5 |
| S 6 | 20 59 47 | 13°46'48 | 15°15 | 10°40 | 22°35 | 8°54 | 9°55 | 17°13 | 1°38 | 8°56 | 22°53 | 8°58 | 10° 8 | 23°53 | 23°41 | S 6 |
| S 7 | 21 3 43 | 14°44'22 | 28°44 | 11°48 | 23°49 | 9°33 | 10° 4 | 17°14 | 1°35 | 8°55 | 22°54 | 8°53 | 10° 5 | 23°59 | 23°38 | S 7 |
| M 8 | 21 7 40 | 15°41'57 | 12♑40 | 12°54 | 25° 3 | 10°12 | 10°14 | 17°16 | 1°33 | 8°53 | 22°55 | 8°45 | 10° 1 | 24° 6 | 23°35 | M 8 |
| T 9 | 21 11 36 | 16°39'33 | 27° 3 | 13°58 | 26°17 | 10°51 | 10°24 | 17°18 | 1°31 | 8°52 | 22°56 | 8°37 | 9°58 | 24°13 | 23°31 | T 9 |
| W10 | 21 15 33 | 17°37'11 | 11♒46 | 14°59 | 27°31 | 11°30 | 10°34 | 17°20 | 1°28 | 8°51 | 22°57 | 8°29 | 9°55 | 24°19 | 23°28 | W10 |
| T 11 | 21 19 30 | 18°34'49 | 26°43 | 15°57 | 28°45 | 12° 9 | 10°44 | 17°22 | 1°26 | 8°50 | 22°58 | 8°23 | 9°52 | 24°26 | 23°25 | T 11 |
| F 12 | 21 23 26 | 19°32'29 | 11♓43 | 16°53 | 29°59 | 12°47 | 10°54 | 17°24 | 1°24 | 8°49 | 22°59 | 8°18 | 9°49 | 24°33 | 23°22 | F 12 |
| S 13 | 21 27 23 | 20°30'10 | 26°40 | 17°45 | 1♍14 | 13°26 | 11° 4 | 17°26 | 1°22 | 8°48 | 23° 0 | 8°16 | 9°45 | 24°39 | 23°19 | S 13 |
| S 14 | 21 31 19 | 21°27'53 | 11♈25 | 18°35 | 2°28 | 14° 4 | 11°15 | 17°28 | 1°19 | 8°47 | 23° 1 | 8°D15 | 9°42 | 24°46 | 23°17 | S 14 |
| M15 | 21 35 16 | 22°25'38 | 25°52 | 19°21 | 3°42 | 14°43 | 11°25 | 17°30 | 1°17 | 8°45 | 23° 1 | 8°16 | 9°39 | 24°53 | 23°14 | M15 |
| T 16 | 21 39 12 | 23°23'24 | 10♉ 0 | 20° 4 | 4°56 | 15°21 | 11°36 | 17°33 | 1°15 | 8°44 | 23° 2 | 8°17 | 9°36 | 24°59 | 23°11 | T 16 |
| W17 | 21 43 9 | 24°21'12 | 23°48 | 20°43 | 6°10 | 15°59 | 11°46 | 17°35 | 1°13 | 8°43 | 23° 3 | 8°R18 | 9°33 | 25° 6 | 23° 8 | W17 |
| T 18 | 21 47 5 | 25°19'02 | 7♊16 | 21°18 | 7°24 | 16°37 | 11°57 | 17°38 | 1°11 | 8°42 | 23° 4 | 8°17 | 9°30 | 25°13 | 23° 5 | T 18 |
| F 19 | 21 51 2 | 26°16'54 | 20°25 | 21°49 | 8°38 | 17°15 | 12° 8 | 17°41 | 1° 9 | 8°41 | 23° 4 | 8°15 | 9°26 | 25°19 | 23° 3 | F 19 |
| S 20 | 21 54 58 | 27°14'47 | 3♋19 | 22°15 | 9°53 | 17°52 | 12°19 | 17°43 | 1° 7 | 8°41 | 23° 5 | 8°11 | 9°23 | 25°26 | 23° 0 | S 20 |
| S 21 | 21 58 55 | 28°12'42 | 15°58 | 22°37 | 11° 7 | 18°30 | 12°29 | 17°46 | 1° 5 | 8°40 | 23° 6 | 8° 5 | 9°20 | 25°33 | 22°57 | S 21 |
| M22 | 22 2 52 | 29°10'39 | 28°25 | 22°54 | 12°21 | 19° 7 | 12°40 | 17°49 | 1° 3 | 8°39 | 23° 7 | 7°58 | 9°17 | 25°39 | 22°55 | M22 |
| T 23 | 22 6 48 | 0♍ 8'38 | 10♌41 | 23° 6 | 13°35 | 19°44 | 12°51 | 17°52 | 1° 1 | 8°38 | 23° 7 | 7°51 | 9°14 | 25°46 | 22°52 | T 23 |
| W24 | 22 10 45 | 1° 6'38 | 22°47 | 23°13 | 14°49 | 20°22 | 13° 3 | 17°55 | 0°59 | 8°37 | 23° 8 | 7°45 | 9°11 | 25°52 | 22°50 | W24 |
| T 25 | 22 14 41 | 2° 4'40 | 4♍46 | 23°R14 | 16° 3 | 20°59 | 13°14 | 17°59 | 0°57 | 8°36 | 23° 9 | 7°40 | 9° 7 | 25°59 | 22°47 | T 25 |
| F 26 | 22 18 38 | 3° 2'44 | 16°38 | 23° 8 | 17°17 | 21°35 | 13°25 | 18° 2 | 0°55 | 8°35 | 23° 9 | 7°36 | 9° 4 | 26° 6 | 22°45 | F 26 |
| S 27 | 22 22 34 | 4° 0'49 | 28°25 | 22°57 | 18°32 | 22°12 | 13°36 | 18° 5 | 0°53 | 8°35 | 23°10 | 7°34 | 9° 1 | 26°12 | 22°43 | S 27 |
| S 28 | 22 26 31 | 4°58'55 | 10♎12 | 22°40 | 19°46 | 22°49 | 13°48 | 18° 9 | 0°51 | 8°34 | 23°10 | 7°D33 | 8°58 | 26°19 | 22°41 | S 28 |
| M29 | 22 30 27 | 5°57'03 | 21°59 | 22°16 | 21° 0 | 23°25 | 13°59 | 18°12 | 0°49 | 8°33 | 23°11 | 7°34 | 8°55 | 26°26 | 22°38 | M29 |
| T 30 | 22 34 24 | 6°55'13 | 3♏52 | 21°46 | 22°14 | 24° 1 | 14°11 | 18°16 | 0°47 | 8°33 | 23°11 | 7°36 | 8°51 | 26°32 | 22°36 | T 30 |
| W31 | 22 38 21 | 7♍53'25 | 15♏54 | 21♍10 | 23♍28 | 24♊37 | 14♎22 | 18♏20 | 0♒46 | 8♑32 | 23♊12 | 7♎38 | 8♎48 | 26♍39 | 22♑34 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18n 2 | 4s57 | 0n24 | 9n45 | 0s10 | 17n15 | 1n22 | 20n41 | 0s36 | 2s31 | 1n12 | 14s54 | 2n10 | 20s24 | 0s37 | 22s18 | 0n52 | 16n17 | 7s 1 | 3s36 | 4s 7 | 1n16 | 13s57 | 7n30 |
| T 2 | 17 47 | 8 28 | 1 26 | 9 7 | 0 19 | 16 53 | 1 23 | 20 49 | 0 35 | 2 35 | 1 12 | 14 54 | 2 9 | 20 24 | 0 37 | 22 18 | 0 52 | 16 17 | 7 1 | 3 36 | 4 6 | 1 14 | 13 58 | 7 30 |
| W 3 | 17 32 | 11 41 | 2 26 | 8 30 | 0 29 | 16 30 | 1 23 | 20 57 | 0 34 | 2 39 | 1 12 | 14 55 | 2 9 | 20 25 | 0 37 | 22 18 | 0 52 | 16 17 | 7 1 | 3 36 | 4 5 | 1 12 | 13 59 | 7 30 |
| T 4 | 17 16 | 14 27 | 3 20 | 7 53 | 0 39 | 16 8 | 1 24 | 21 4 | 0 33 | 2 43 | 1 11 | 14 56 | 2 9 | 20 25 | 0 37 | 22 18 | 0 52 | 16 17 | 7 1 | 3 36 | 4 4 | 1 10 | 14 0 | 7 30 |
| F 5 | 17 0 | 16 37 | 4 6 | 7 16 | 0 49 | 15 44 | 1 24 | 21 11 | 0 32 | 2 47 | 1 11 | 14 56 | 2 9 | 20 26 | 0 37 | 22 19 | 0 52 | 16 17 | 7 1 | 3 35 | 4 2 | 1 8 | 14 0 | 7 30 |
| S 6 | 16 43 | 18 0 | 4 41 | 6 40 | 0 59 | 15 21 | 1 25 | 21 18 | 0 31 | 2 51 | 1 11 | 14 57 | 2 8 | 20 26 | 0 37 | 22 19 | 0 52 | 16 17 | 7 1 | 3 34 | 4 1 | 1 7 | 14 1 | 7 29 |
| S 7 | 16 26 | 18 26 | 5 2 | 6 5 | 1 9 | 14 57 | 1 25 | 21 25 | 0 30 | 2 55 | 1 11 | 14 58 | 2 8 | 20 27 | 0 37 | 22 19 | 0 52 | 16 17 | 7 1 | 3 31 | 4 0 | 1 5 | 14 2 | 7 29 |
| M 8 | 16 9 | 17 48 | 5 6 | 5 30 | 1 20 | 14 32 | 1 26 | 21 32 | 0 30 | 2 59 | 1 11 | 14 58 | 2 8 | 20 27 | 0 37 | 22 19 | 0 52 | 16 17 | 7 1 | 3 29 | 3 59 | 1 3 | 14 3 | 7 29 |
| T 9 | 15 52 | 16 1 | 4 51 | 4 56 | 1 30 | 14 7 | 1 26 | 21 38 | 0 29 | 3 3 | 1 11 | 14 59 | 2 8 | 20 28 | 0 37 | 22 19 | 0 52 | 16 17 | 7 2 | 3 25 | 3 57 | 1 1 | 14 3 | 7 29 |
| W10 | 15 35 | 13 10 | 4 17 | 4 23 | 1 41 | 13 42 | 1 26 | 21 44 | 0 28 | 3 7 | 1 10 | 15 0 | 2 7 | 20 28 | 0 37 | 22 19 | 0 52 | 16 17 | 7 2 | 3 22 | 3 56 | 0 59 | 14 4 | 7 28 |
| T 11 | 15 17 | 9 25 | 3 25 | 3 50 | 1 51 | 13 17 | 1 26 | 21 51 | 0 27 | 3 11 | 1 10 | 15 1 | 2 7 | 20 29 | 0 37 | 22 19 | 0 52 | 16 16 | 7 2 | 3 20 | 3 55 | 0 57 | 14 5 | 7 28 |
| F 12 | 14 59 | 5 3 | 2 18 | 3 19 | 2 2 | 12 51 | 1 27 | 21 57 | 0 26 | 3 15 | 1 10 | 15 1 | 2 7 | 20 29 | 0 37 | 22 19 | 0 52 | 16 16 | 7 2 | 3 18 | 3 54 | 0 55 | 14 5 | 7 28 |
| S 13 | 14 41 | 0 23 | 1 2 | 2 49 | 2 13 | 12 24 | 1 27 | 22 2 | 0 25 | 3 19 | 1 10 | 15 2 | 2 7 | 20 30 | 0 37 | 22 19 | 0 52 | 16 16 | 7 2 | 3 17 | 3 52 | 0 54 | 14 6 | 7 28 |
| S 14 | 14 22 | 4n16 | 0s17 | 2 20 | 2 23 | 11 58 | 1 27 | 22 8 | 0 24 | 3 23 | 1 10 | 15 3 | 2 6 | 20 30 | 0 37 | 22 19 | 0 52 | 16 16 | 7 2 | 3 17 | 3 51 | 0 52 | 14 7 | 7 27 |
| M15 | 14 4 | 8 33 | 1 34 | 1 52 | 2 34 | 11 31 | 1 26 | 22 13 | 0 23 | 3 27 | 1 10 | 15 4 | 2 6 | 20 31 | 0 37 | 22 20 | 0 52 | 16 16 | 7 2 | 3 17 | 3 50 | 0 50 | 14 8 | 7 27 |
| T 16 | 13 45 | 12 15 | 2 43 | 1 26 | 2 44 | 11 3 | 1 26 | 22 18 | 0 22 | 3 32 | 1 9 | 15 5 | 2 6 | 20 31 | 0 37 | 22 20 | 0 52 | 16 16 | 7 2 | 3 18 | 3 49 | 0 48 | 14 8 | 7 27 |
| W17 | 13 26 | 15 10 | 3 42 | 1 1 | 2 54 | 10 36 | 1 26 | 22 23 | 0 21 | 3 36 | 1 9 | 15 6 | 2 6 | 20 32 | 0 37 | 22 20 | 0 52 | 16 16 | 7 2 | 3 18 | 3 47 | 0 46 | 14 9 | 7 26 |
| T 18 | 13 6 | 17 11 | 4 26 | 0 38 | 3 4 | 10 8 | 1 26 | 22 28 | 0 20 | 3 40 | 1 9 | 15 7 | 2 5 | 20 32 | 0 37 | 22 20 | 0 52 | 16 16 | 7 2 | 3 18 | 3 46 | 0 44 | 14 10 | 7 26 |
| F 19 | 12 47 | 18 13 | 4 55 | 0 17 | 3 14 | 9 40 | 1 25 | 22 33 | 0 19 | 3 45 | 1 9 | 15 8 | 2 5 | 20 33 | 0 37 | 22 20 | 0 52 | 16 16 | 7 2 | 3 17 | 3 45 | 0 42 | 14 11 | 7 26 |
| S 20 | 12 27 | 18 17 | 5 9 | 0s 2 | 3 24 | 9 11 | 1 25 | 22 37 | 0 18 | 3 49 | 1 9 | 15 9 | 2 5 | 20 33 | 0 37 | 22 20 | 0 52 | 16 16 | 7 2 | 3 15 | 3 44 | 0 41 | 14 11 | 7 26 |
| S 21 | 12 7 | 17 26 | 5 7 | 0 20 | 3 33 | 8 43 | 1 25 | 22 42 | 0 17 | 3 53 | 1 9 | 15 10 | 2 5 | 20 34 | 0 37 | 22 20 | 0 52 | 16 16 | 7 3 | 3 13 | 3 42 | 0 39 | 14 12 | 7 25 |
| M22 | 11 47 | 15 46 | 4 51 | 0 34 | 3 42 | 8 14 | 1 24 | 22 46 | 0 16 | 3 58 | 1 9 | 15 11 | 2 4 | 20 34 | 0 37 | 22 20 | 0 52 | 16 16 | 7 3 | 3 10 | 3 41 | 0 37 | 14 13 | 7 25 |
| T 23 | 11 26 | 13 24 | 4 21 | 0 46 | 3 50 | 7 45 | 1 23 | 22 50 | 0 15 | 4 2 | 1 8 | 15 12 | 2 4 | 20 34 | 0 37 | 22 20 | 0 52 | 16 16 | 7 3 | 3 7 | 3 40 | 0 35 | 14 14 | 7 24 |
| W24 | 11 6 | 10 28 | 3 40 | 0 56 | 3 57 | 7 16 | 1 23 | 22 54 | 0 14 | 4 7 | 1 8 | 15 13 | 2 4 | 20 35 | 0 37 | 22 20 | 0 52 | 16 16 | 7 3 | 3 5 | 3 39 | 0 33 | 14 14 | 7 24 |
| T 25 | 10 45 | 7 9 | 2 50 | 1 2 | 4 4 | 6 46 | 1 22 | 22 57 | 0 13 | 4 11 | 1 8 | 15 14 | 2 4 | 20 35 | 0 37 | 22 21 | 0 52 | 16 16 | 7 3 | 3 3 | 3 37 | 0 31 | 14 15 | 7 24 |
| F 26 | 10 24 | 3 34 | 1 52 | 1 6 | 4 10 | 6 16 | 1 21 | 23 1 | 0 12 | 4 16 | 1 8 | 15 15 | 2 3 | 20 36 | 0 37 | 22 21 | 0 52 | 16 16 | 7 3 | 3 1 | 3 36 | 0 30 | 14 16 | 7 23 |
| S 27 | 10 3 | 0s 8 | 0 50 | 1 6 | 4 15 | 5 46 | 1 20 | 23 4 | 0 11 | 4 20 | 1 8 | 15 17 | 2 3 | 20 36 | 0 37 | 22 21 | 0 52 | 16 16 | 7 3 | 3 0 | 3 35 | 0 28 | 14 17 | 7 23 |
| S 28 | 9 42 | 3 49 | 0n14 | 1 3 | 4 19 | 5 16 | 1 19 | 23 7 | 0 10 | 4 25 | 1 8 | 15 18 | 2 3 | 20 36 | 0 37 | 22 21 | 0 52 | 16 16 | 7 3 | 3 0 | 3 34 | 0 26 | 14 17 | 7 23 |
| M29 | 9 21 | 7 22 | 1 18 | 0 56 | 4 21 | 4 46 | 1 18 | 23 10 | 0 9 | 4 29 | 1 8 | 15 19 | 2 3 | 20 37 | 0 37 | 22 21 | 0 52 | 16 15 | 7 3 | 3 1 | 3 32 | 0 24 | 14 18 | 7 22 |
| T 30 | 8 59 | 10 38 | 2 20 | 0 45 | 4 22 | 4 16 | 1 17 | 23 13 | 0 8 | 4 34 | 1 8 | 15 20 | 2 3 | 20 37 | 0 37 | 22 21 | 0 51 | 16 15 | 7 3 | 3 1 | 3 31 | 0 22 | 14 19 | 7 22 |
| W31 | 8n38 | 13s30 | 3n15 | 0s31 | 4s22 | 3n46 | 1n16 | 23n16 | 0s 7 | 4s38 | 1n 7 | 15s21 | 2n 2 | 20s38 | 0s37 | 22s21 | 0n51 | 16n15 | 7s 4 | 3s 2 | 3s30 | 0n20 | 14s20 | 7n21 |

Julian Day Number = 2327940.5, Delta T = 35.31 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'00, Lahiri = 19°08'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## SEPTEMBER 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 42 17 | 8♍51'37 | 28♏10 | 20°R28 | 24♍42 | 25♊13 | 14♎34 | 18♏24 | 0°R44 | 8°R31 | 23♊12 | 7♎39 | 8♎45 | 26♍46 | 22°R32 | T 1 |
| F 2 | 22 46 14 | 9°49'52 | 10♐44 | 19♍41 | 25°57 | 25°49 | 14°46 | 18°27 | 0♒42 | 8♑31 | 23°13 | 7°R39 | 8°42 | 26°52 | 22♑30 | F 2 |
| S 3 | 22 50 10 | 10°48'08 | 23°41 | 18°49 | 27°11 | 26°25 | 14°57 | 18°31 | 0°40 | 8°30 | 23°13 | 7°39 | 8°39 | 26°59 | 22°29 | S 3 |
| S 4 | 22 54 7 | 11°46'25 | 7♑ 4 | 17°53 | 28°25 | 27° 0 | 15° 9 | 18°35 | 0°39 | 8°30 | 23°14 | 7°37 | 8°36 | 27° 6 | 22°27 | S 4 |
| M 5 | 22 58 3 | 12°44'44 | 20°56 | 16°54 | 29°39 | 27°35 | 15°21 | 18°40 | 0°37 | 8°29 | 23°14 | 7°34 | 8°32 | 27°12 | 22°25 | M 5 |
| T 6 | 23 2 0 | 13°43'05 | 5♒15 | 15°54 | 0♎53 | 28°11 | 15°33 | 18°44 | 0°36 | 8°29 | 23°14 | 7°31 | 8°29 | 27°19 | 22°23 | T 6 |
| W 7 | 23 5 56 | 14°41'27 | 19°59 | 14°53 | 2° 7 | 28°45 | 15°45 | 18°48 | 0°34 | 8°28 | 23°15 | 7°28 | 8°26 | 27°26 | 22°22 | W 7 |
| T 8 | 23 9 53 | 15°39'51 | 5♓ 0 | 13°52 | 3°21 | 29°20 | 15°57 | 18°52 | 0°33 | 8°28 | 23°15 | 7°25 | 8°23 | 27°32 | 22°20 | T 8 |
| F 9 | 23 13 50 | 16°38'16 | 20°12 | 12°54 | 4°36 | 29°55 | 16° 9 | 18°57 | 0°31 | 8°28 | 23°15 | 7°23 | 8°20 | 27°39 | 22°19 | F 9 |
| S 10 | 23 17 46 | 17°36'44 | 5♈23 | 12° 0 | 5°50 | 0♋29 | 16°21 | 19° 1 | 0°30 | 8°27 | 23°16 | 7°D23 | 8°16 | 27°45 | 22°17 | S 10 |
| S 11 | 23 21 43 | 18°35'14 | 20°25 | 11°11 | 7° 4 | 1° 4 | 16°33 | 19° 6 | 0°29 | 8°27 | 23°16 | 7°23 | 8°13 | 27°52 | 22°16 | S 11 |
| M12 | 23 25 39 | 19°33'45 | 5♉10 | 10°28 | 8°18 | 1°38 | 16°46 | 19°11 | 0°27 | 8°27 | 23°16 | 7°24 | 8°10 | 27°59 | 22°15 | M12 |
| T 13 | 23 29 36 | 20°32'19 | 19°33 | 9°53 | 9°32 | 2°12 | 16°58 | 19°15 | 0°26 | 8°26 | 23°17 | 7°25 | 8° 7 | 28° 5 | 22°14 | T 13 |
| W14 | 23 33 32 | 21°30'55 | 3♊30 | 9°26 | 10°46 | 2°45 | 17°10 | 19°20 | 0°25 | 8°26 | 23°17 | 7°26 | 8° 4 | 28°12 | 22°12 | W14 |
| T 15 | 23 37 29 | 22°29'34 | 17° 3 | 9° 8 | 12° 0 | 3°19 | 17°23 | 19°25 | 0°24 | 8°26 | 23°17 | 7°R27 | 8° 1 | 28°19 | 22°11 | T 15 |
| F 16 | 23 41 25 | 23°28'15 | 0♋12 | 9°D 0 | 13°14 | 3°52 | 17°35 | 19°30 | 0°22 | 8°26 | 23°17 | 7°27 | 7°57 | 28°25 | 22°10 | F 16 |
| S 17 | 23 45 22 | 24°26'58 | 13° 0 | 9° 1 | 14°29 | 4°26 | 17°47 | 19°35 | 0°21 | 8°26 | 23°17 | 7°26 | 7°54 | 28°32 | 22° 9 | S 17 |
| S 18 | 23 49 19 | 25°25'43 | 25°30 | 9°13 | 15°43 | 4°59 | 18° 0 | 19°40 | 0°20 | 8°26 | 23°17 | 7°25 | 7°51 | 28°39 | 22° 9 | S 18 |
| M19 | 23 53 15 | 26°24'30 | 7♌46 | 9°34 | 16°57 | 5°31 | 18°12 | 19°45 | 0°19 | 8°26 | 23°17 | 7°24 | 7°48 | 28°45 | 22° 8 | M19 |
| T 20 | 23 57 12 | 27°23'20 | 19°50 | 10° 5 | 18°11 | 6° 4 | 18°25 | 19°50 | 0°18 | 8°D26 | 23°18 | 7°22 | 7°45 | 28°52 | 22° 7 | T 20 |
| W21 | 0 1 8 | 28°22'12 | 1♍47 | 10°45 | 19°25 | 6°36 | 18°38 | 19°55 | 0°17 | 8°26 | 23°18 | 7°21 | 7°42 | 28°59 | 22° 7 | W21 |
| T 22 | 0 5 5 | 29°21'05 | 13°38 | 11°33 | 20°39 | 7° 8 | 18°50 | 20° 1 | 0°16 | 8°26 | 23°18 | 7°20 | 7°38 | 29° 5 | 22° 6 | T 22 |
| F 23 | 0 9 1 | 0♎20'01 | 25°26 | 12°29 | 21°53 | 7°40 | 19° 3 | 20° 6 | 0°16 | 8°26 | 23°R18 | 7°19 | 7°35 | 29°12 | 22° 5 | F 23 |
| S 24 | 0 12 58 | 1°18'59 | 7♎13 | 13°33 | 23° 7 | 8°12 | 19°16 | 20°11 | 0°15 | 8°26 | 23°18 | 7°D19 | 7°32 | 29°19 | 22° 5 | S 24 |
| S 25 | 0 16 54 | 2°17'59 | 19° 1 | 14°43 | 24°21 | 8°43 | 19°28 | 20°17 | 0°14 | 8°26 | 23°18 | 7°19 | 7°29 | 29°25 | 22° 5 | S 25 |
| M26 | 0 20 51 | 3°17'02 | 0♏53 | 16° 0 | 25°35 | 9°15 | 19°41 | 20°22 | 0°13 | 8°26 | 23°17 | 7°19 | 7°26 | 29°32 | 22° 4 | M26 |
| T 27 | 0 24 47 | 4°16'06 | 12°52 | 17°21 | 26°49 | 9°46 | 19°54 | 20°28 | 0°13 | 8°27 | 23°17 | 7°20 | 7°22 | 29°38 | 22° 4 | T 27 |
| W28 | 0 28 44 | 5°15'11 | 24°59 | 18°47 | 28° 3 | 10°16 | 20° 7 | 20°34 | 0°12 | 8°27 | 23°17 | 7°20 | 7°19 | 29°45 | 22° 4 | W28 |
| T 29 | 0 32 41 | 6°14'19 | 7♐19 | 20°17 | 29°18 | 10°47 | 20°19 | 20°39 | 0°12 | 8°27 | 23°17 | 7°20 | 7°16 | 29°52 | 22°D 4 | T 29 |
| F 30 | 0 36 37 | 7♎13'29 | 19♐54 | 21♍50 | 0♏32 | 11♋17 | 20♎32 | 20♏45 | 0♒11 | 8♑27 | 23♊17 | 7°R20 | 7♎13 | 29♍58 | 22♑ 4 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n16 | 15s50 | 4n 3 | 0s12 | 4s20 | 3n15 | 1n15 | 23n18 | 0s 6 | 4s43 | 1n 7 | 15s23 | 2n 2 | 20s38 | 0s37 | 22s21 | 0n51 | 16n15 | 7s 4 | 3s 2 | 3s29 | 0n18 | 14s20 | 7n21 |
| F 2 | 7 54 | 17 27 | 4 41 | 0n10 | 4 16 | 2 44 | 1 14 | 23 20 | 0 4 | 4 48 | 1 7 | 15 24 | 2 2 | 20 38 | 0 37 | 22 21 | 0 51 | 16 15 | 7 4 | 3 3 | 3 27 | 0 17 | 14 21 | 7 21 |
| S 3 | 7 32 | 18 14 | 5 6 | 0 35 | 4 11 | 2 14 | 1 12 | 23 23 | 0 3 | 4 52 | 1 7 | 15 25 | 2 2 | 20 39 | 0 37 | 22 21 | 0 51 | 16 15 | 7 4 | 3 2 | 3 26 | 0 15 | 14 22 | 7 20 |
| S 4 | 7 10 | 18 3 | 5 15 | 1 4 | 4 3 | 1 43 | 1 11 | 23 25 | 0 2 | 4 57 | 1 7 | 15 27 | 2 1 | 20 39 | 0 37 | 22 21 | 0 51 | 16 15 | 7 4 | 3 2 | 3 25 | 0 13 | 14 23 | 7 20 |
| M 5 | 6 47 | 16 48 | 5 6 | 1 36 | 3 53 | 1 12 | 1 9 | 23 26 | 0 1 | 5 2 | 1 7 | 15 28 | 2 1 | 20 39 | 0 37 | 22 21 | 0 51 | 16 15 | 7 4 | 3 0 | 3 24 | 0 11 | 14 23 | 7 19 |
| T 6 | 6 25 | 14 29 | 4 39 | 2 10 | 3 42 | 0 41 | 1 8 | 23 28 | 0n 0 | 5 6 | 1 7 | 15 29 | 2 1 | 20 40 | 0 37 | 22 21 | 0 51 | 16 15 | 7 4 | 2 59 | 3 22 | 0 9 | 14 24 | 7 19 |
| W 7 | 6 2 | 11 10 | 3 53 | 2 46 | 3 29 | 0 10 | 1 6 | 23 30 | 0 1 | 5 11 | 1 7 | 15 31 | 2 1 | 20 40 | 0 37 | 22 21 | 0 51 | 16 15 | 7 4 | 2 58 | 3 21 | 0 7 | 14 25 | 7 18 |
| T 8 | 5 40 | 7 4 | 2 49 | 3 23 | 3 14 | 0s21 | 1 5 | 23 31 | 0 2 | 5 16 | 1 7 | 15 32 | 2 1 | 20 40 | 0 37 | 22 22 | 0 51 | 16 15 | 7 4 | 2 57 | 3 20 | 0 5 | 14 25 | 7 18 |
| F 9 | 5 17 | 2 27 | 1 34 | 4 0 | 2 57 | 0 52 | 1 3 | 23 32 | 0 4 | 5 21 | 1 6 | 15 33 | 2 0 | 20 41 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 56 | 3 18 | 0 4 | 14 26 | 7 17 |
| S 10 | 4 54 | 2n19 | 0 11 | 4 37 | 2 39 | 1 23 | 1 1 | 23 34 | 0 5 | 5 25 | 1 6 | 15 35 | 2 0 | 20 41 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 56 | 3 17 | 0 2 | 14 27 | 7 17 |
| S 11 | 4 31 | 6 53 | 1s12 | 5 13 | 2 21 | 1 54 | 1 0 | 23 35 | 0 6 | 5 30 | 1 6 | 15 36 | 2 0 | 20 41 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 56 | 3 16 | 0s 0 | 14 27 | 7 16 |
| M12 | 4 8 | 10 57 | 2 28 | 5 47 | 2 1 | 2 25 | 0 58 | 23 35 | 0 7 | 5 35 | 1 6 | 15 38 | 2 0 | 20 41 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 57 | 3 15 | 0 2 | 14 28 | 7 16 |
| T 13 | 3 45 | 14 14 | 3 33 | 6 19 | 1 41 | 2 56 | 0 56 | 23 36 | 0 8 | 5 40 | 1 6 | 15 39 | 1 59 | 20 42 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 57 | 3 13 | 0 4 | 14 29 | 7 15 |
| W14 | 3 22 | 16 35 | 4 23 | 6 47 | 1 22 | 3 27 | 0 54 | 23 37 | 0 10 | 5 44 | 1 6 | 15 41 | 1 59 | 20 42 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 57 | 3 12 | 0 6 | 14 29 | 7 15 |
| T 15 | 2 59 | 17 55 | 4 57 | 7 12 | 1 2 | 3 57 | 0 52 | 23 37 | 0 11 | 5 49 | 1 6 | 15 42 | 1 59 | 20 42 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 58 | 3 11 | 0 7 | 14 30 | 7 14 |
| F 16 | 2 36 | 18 14 | 5 15 | 7 33 | 0 43 | 4 28 | 0 50 | 23 38 | 0 12 | 5 54 | 1 6 | 15 44 | 1 59 | 20 42 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 58 | 3 10 | 0 9 | 14 31 | 7 14 |
| S 17 | 2 13 | 17 37 | 5 16 | 7 50 | 0 24 | 4 59 | 0 48 | 23 38 | 0 14 | 5 59 | 1 6 | 15 45 | 1 59 | 20 43 | 0 37 | 22 22 | 0 51 | 16 14 | 7 5 | 2 57 | 3 8 | 0 11 | 14 31 | 7 14 |
| S 18 | 1 49 | 16 8 | 5 1 | 8 2 | 0 6 | 5 30 | 0 46 | 23 38 | 0 15 | 6 4 | 1 6 | 15 47 | 1 59 | 20 43 | 0 37 | 22 22 | 0 51 | 16 14 | 7 6 | 2 57 | 3 7 | 0 13 | 14 32 | 7 13 |
| M19 | 1 26 | 13 57 | 4 34 | 8 9 | 0n10 | 6 0 | 0 43 | 23 38 | 0 16 | 6 9 | 1 5 | 15 48 | 1 58 | 20 43 | 0 37 | 22 22 | 0 51 | 16 13 | 7 6 | 2 56 | 3 6 | 0 15 | 14 33 | 7 13 |
| T 20 | 1 2 | 11 11 | 3 54 | 8 12 | 0 26 | 6 30 | 0 41 | 23 38 | 0 17 | 6 13 | 1 5 | 15 50 | 1 58 | 20 43 | 0 37 | 22 22 | 0 51 | 16 13 | 7 6 | 2 56 | 3 5 | 0 17 | 14 33 | 7 12 |
| W21 | 0 39 | 7 59 | 3 5 | 8 10 | 0 40 | 7 1 | 0 39 | 23 38 | 0 19 | 6 18 | 1 5 | 15 51 | 1 58 | 20 43 | 0 37 | 22 22 | 0 51 | 16 13 | 7 6 | 2 55 | 3 3 | 0 19 | 14 34 | 7 11 |
| T 22 | 0 16 | 4 29 | 2 8 | 8 4 | 0 53 | 7 31 | 0 37 | 23 37 | 0 20 | 6 23 | 1 5 | 15 53 | 1 58 | 20 43 | 0 37 | 22 22 | 0 51 | 16 13 | 7 6 | 2 55 | 3 2 | 0 20 | 14 34 | 7 11 |
| F 23 | 0s 8 | 0 49 | 1 6 | 7 53 | 1 5 | 8 1 | 0 34 | 23 37 | 0 22 | 6 28 | 1 5 | 15 55 | 1 58 | 20 44 | 0 37 | 22 22 | 0 51 | 16 13 | 7 6 | 2 55 | 3 1 | 0 22 | 14 35 | 7 10 |
| S 24 | 0 31 | 2s53 | 0 1 | 7 39 | 1 16 | 8 30 | 0 32 | 23 36 | 0 23 | 6 33 | 1 5 | 15 56 | 1 57 | 20 44 | 0 37 | 22 22 | 0 51 | 16 13 | 7 6 | 2 55 | 3 0 | 0 24 | 14 35 | 7 10 |
| S 25 | 0 55 | 6 28 | 1n 5 | 7 20 | 1 25 | 9 0 | 0 30 | 23 36 | 0 24 | 6 38 | 1 5 | 15 58 | 1 57 | 20 44 | 0 37 | 22 22 | 0 51 | 16 13 | 7 6 | 2 55 | 2 58 | 0 26 | 14 36 | 7 9 |
| M26 | 1 18 | 9 49 | 2 7 | 6 57 | 1 33 | 9 29 | 0 27 | 23 35 | 0 26 | 6 43 | 1 5 | 15 59 | 1 57 | 20 44 | 0 37 | 22 22 | 0 50 | 16 13 | 7 6 | 2 55 | 2 57 | 0 28 | 14 37 | 7 9 |
| T 27 | 1 42 | 12 47 | 3 5 | 6 32 | 1 39 | 9 59 | 0 25 | 23 34 | 0 27 | 6 48 | 1 5 | 16 1 | 1 57 | 20 44 | 0 37 | 22 22 | 0 50 | 16 13 | 7 7 | 2 55 | 2 56 | 0 30 | 14 37 | 7 8 |
| W28 | 2 5 | 15 14 | 3 55 | 6 3 | 1 45 | 10 28 | 0 22 | 23 33 | 0 29 | 6 52 | 1 5 | 16 3 | 1 57 | 20 44 | 0 37 | 22 22 | 0 50 | 16 12 | 7 7 | 2 55 | 2 55 | 0 31 | 14 38 | 7 8 |
| T 29 | 2 29 | 17 2 | 4 36 | 5 32 | 1 49 | 10 56 | 0 20 | 23 32 | 0 30 | 6 57 | 1 5 | 16 4 | 1 57 | 20 44 | 0 37 | 22 22 | 0 50 | 16 12 | 7 7 | 2 55 | 2 53 | 0 33 | 14 38 | 7 7 |
| F 30 | 2s52 | 18s 3 | 5n 4 | 4n58 | 1n52 | 11s25 | 0n17 | 23n31 | 0n31 | 7s 2 | 1n 5 | 16s 6 | 1n56 | 20s44 | 0s37 | 22s22 | 0n50 | 16n12 | 7s 7 | 2s55 | 2s52 | 0s35 | 14s39 | 7n 7 |

Julian Day Number = 2327971.5, Delta T = 35.25 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'04, Lahiri = 19°08'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## OCTOBER 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 40 34 | 8♎12'40 | 2♑49 | 23♍26 | 1♏46 | 11♋47 | 20♎45 | 20♏51 | 0°R11 | 8♑28 | 23°R17 | 7°D20 | 7♎10 | 0♎ 5 | 22♑ 4 | S 1 |
| S 2 | 0 44 30 | 9°11'54 | 16° 5 | 25° 5 | 3° 0 | 12°17 | 20°58 | 20°57 | 0♒10 | 8°28 | 23♊17 | 7♎20 | 7° 7 | 0°12 | 22° 4 | S 2 |
| M 3 | 0 48 27 | 10°11'08 | 29°46 | 26°45 | 4°14 | 12°47 | 21°11 | 21° 3 | 0°10 | 8°29 | 23°16 | 7°20 | 7° 3 | 0°18 | 22° 5 | M 3 |
| T 4 | 0 52 23 | 11°10'25 | 13♒52 | 28°27 | 5°28 | 13°16 | 21°24 | 21° 9 | 0°10 | 8°29 | 23°16 | 7°21 | 7° 0 | 0°25 | 22° 5 | T 4 |
| W 5 | 0 56 20 | 12° 9'44 | 28°23 | 0♎ 9 | 6°42 | 13°45 | 21°37 | 21°15 | 0° 9 | 8°30 | 23°16 | 7°21 | 6°57 | 0°32 | 22° 5 | W 5 |
| T 6 | 1 0 16 | 13° 9'04 | 13♓13 | 1°53 | 7°56 | 14°14 | 21°50 | 21°21 | 0° 9 | 8°30 | 23°16 | 7°22 | 6°54 | 0°38 | 22° 6 | T 6 |
| F 7 | 1 4 13 | 14° 8'26 | 28°19 | 3°37 | 9°10 | 14°42 | 22° 3 | 21°27 | 0° 9 | 8°31 | 23°15 | 7°22 | 6°51 | 0°45 | 22° 6 | F 7 |
| S 8 | 1 8 10 | 15° 7'50 | 13♈30 | 5°21 | 10°24 | 15°10 | 22°16 | 21°33 | 0° 9 | 8°31 | 23°15 | 7°R22 | 6°47 | 0°52 | 22° 7 | S 8 |
| S 9 | 1 12 6 | 16° 7'16 | 28°38 | 7° 5 | 11°37 | 15°38 | 22°29 | 21°39 | 0°D 9 | 8°32 | 23°15 | 7°22 | 6°44 | 0°58 | 22° 8 | S 9 |
| M10 | 1 16 3 | 17° 6'45 | 13♉33 | 8°50 | 12°51 | 16° 6 | 22°42 | 21°45 | 0° 9 | 8°33 | 23°14 | 7°21 | 6°41 | 1° 5 | 22° 9 | M10 |
| T 11 | 1 19 59 | 18° 6'15 | 28° 8 | 10°34 | 14° 5 | 16°33 | 22°55 | 21°52 | 0° 9 | 8°33 | 23°14 | 7°20 | 6°38 | 1°11 | 22° 9 | T 11 |
| W12 | 1 23 56 | 19° 5'48 | 12♊17 | 12°18 | 15°19 | 17° 0 | 23° 8 | 21°58 | 0° 9 | 8°34 | 23°13 | 7°18 | 6°35 | 1°18 | 22°10 | W12 |
| T 13 | 1 27 52 | 20° 5'23 | 26° 0 | 14° 2 | 16°33 | 17°27 | 23°21 | 22° 4 | 0° 9 | 8°35 | 23°13 | 7°17 | 6°32 | 1°25 | 22°11 | T 13 |
| F 14 | 1 31 49 | 21° 5'01 | 9♋15 | 15°45 | 17°47 | 17°53 | 23°34 | 22°11 | 0° 9 | 8°35 | 23°13 | 7°16 | 6°28 | 1°31 | 22°12 | F 14 |
| S 15 | 1 35 45 | 22° 4'40 | 22° 5 | 17°28 | 19° 1 | 18°19 | 23°47 | 22°17 | 0°10 | 8°36 | 23°12 | 7°D16 | 6°25 | 1°38 | 22°14 | S 15 |
| S 16 | 1 39 42 | 23° 4'22 | 4♌33 | 19°10 | 20°15 | 18°45 | 24° 0 | 22°24 | 0°10 | 8°37 | 23°12 | 7°16 | 6°22 | 1°45 | 22°15 | S 16 |
| M17 | 1 43 39 | 24° 4'07 | 16°45 | 20°52 | 21°29 | 19°10 | 24°14 | 22°30 | 0°10 | 8°38 | 23°11 | 7°17 | 6°19 | 1°51 | 22°16 | M17 |
| T 18 | 1 47 35 | 25° 3'53 | 28°44 | 22°33 | 22°43 | 19°35 | 24°27 | 22°37 | 0°11 | 8°39 | 23°11 | 7°18 | 6°16 | 1°58 | 22°17 | T 18 |
| W19 | 1 51 32 | 26° 3'42 | 10♍36 | 24°14 | 23°56 | 20° 0 | 24°40 | 22°43 | 0°11 | 8°40 | 23°10 | 7°20 | 6°13 | 2° 5 | 22°19 | W19 |
| T 20 | 1 55 28 | 27° 3'33 | 22°23 | 25°54 | 25°10 | 20°24 | 24°53 | 22°50 | 0°12 | 8°41 | 23° 9 | 7°21 | 6° 9 | 2°11 | 22°20 | T 20 |
| F 21 | 1 59 25 | 28° 3'26 | 4♎ 9 | 27°34 | 26°24 | 20°48 | 25° 6 | 22°57 | 0°12 | 8°42 | 23° 9 | 7°R22 | 6° 6 | 2°18 | 22°22 | F 21 |
| S 22 | 2 3 21 | 29° 3'21 | 15°59 | 29°13 | 27°38 | 21°11 | 25°19 | 23° 3 | 0°13 | 8°43 | 23° 8 | 7°22 | 6° 3 | 2°25 | 22°24 | S 22 |
| S 23 | 2 7 18 | 0♏ 3'18 | 27°53 | 0♏52 | 28°52 | 21°34 | 25°32 | 23°10 | 0°14 | 8°44 | 23° 8 | 7°20 | 6° 0 | 2°31 | 22°25 | S 23 |
| M24 | 2 11 14 | 1° 3'17 | 9♏54 | 2°30 | 0♐ 6 | 21°57 | 25°45 | 23°17 | 0°14 | 8°45 | 23° 7 | 7°18 | 5°57 | 2°38 | 22°27 | M24 |
| T 25 | 2 15 11 | 2° 3'18 | 22° 4 | 4° 8 | 1°19 | 22°19 | 25°58 | 23°24 | 0°15 | 8°46 | 23° 6 | 7°14 | 5°53 | 2°44 | 22°29 | T 25 |
| W26 | 2 19 7 | 3° 3'20 | 4♐25 | 5°45 | 2°33 | 22°41 | 26°11 | 23°30 | 0°16 | 8°47 | 23° 6 | 7°10 | 5°50 | 2°51 | 22°31 | W26 |
| T 27 | 2 23 4 | 4° 3'25 | 16°56 | 7°22 | 3°47 | 23° 3 | 26°24 | 23°37 | 0°17 | 8°49 | 23° 5 | 7° 5 | 5°47 | 2°58 | 22°33 | T 27 |
| F 28 | 2 27 1 | 5° 3'31 | 29°41 | 8°58 | 5° 1 | 23°24 | 26°37 | 23°44 | 0°18 | 8°50 | 23° 4 | 7° 1 | 5°44 | 3° 4 | 22°35 | F 28 |
| S 29 | 2 30 57 | 6° 3'39 | 12♑41 | 10°34 | 6°14 | 23°45 | 26°50 | 23°51 | 0°19 | 8°51 | 23° 3 | 6°58 | 5°41 | 3°11 | 22°37 | S 29 |
| S 30 | 2 34 54 | 7° 3'49 | 25°57 | 12° 9 | 7°28 | 24° 5 | 27° 3 | 23°58 | 0°20 | 8°52 | 23° 3 | 6°56 | 5°38 | 3°18 | 22°39 | S 30 |
| M31 | 2 38 50 | 8♏ 4'00 | 9♒31 | 13♏44 | 8♐42 | 24♋24 | 27♎16 | 24♏ 5 | 0♒21 | 8♑54 | 23♊ 2 | 6°D55 | 5♎34 | 3♎24 | 22♑42 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s16 | 18s10 | 5n17 | 4n22 | 1n55 | 11s53 | 0n14 | 23n30 | 0n33 | 7s 7 | 1n 5 | 16s 8 | 1n56 | 20s44 | 0s36 | 22s22 | 0n50 | 16n12 | 7s 7 | 2s55 | 2s51 | 0s37 | 14s39 | 7n 6 |
| S 2 | 3 39 | 17 18 | 5 14 | 3 44 | 1 56 | 12 21 | 0 12 | 23 29 | 0 34 | 7 12 | 1 5 | 16 9 | 1 56 | 20 45 | 0 36 | 22 22 | 0 50 | 16 12 | 7 7 | 2 55 | 2 50 | 0 39 | 14 40 | 7 6 |
| M 3 | 4 2 | 15 26 | 4 54 | 3 4 | 1 56 | 12 49 | 0 9 | 23 28 | 0 36 | 7 17 | 1 5 | 16 11 | 1 56 | 20 45 | 0 36 | 22 22 | 0 50 | 16 12 | 7 7 | 2 55 | 2 48 | 0 41 | 14 40 | 7 5 |
| T 4 | 4 26 | 12 36 | 4 16 | 2 24 | 1 56 | 13 16 | 0 6 | 23 26 | 0 37 | 7 22 | 1 5 | 16 13 | 1 56 | 20 45 | 0 36 | 22 22 | 0 50 | 16 12 | 7 7 | 2 55 | 2 47 | 0 43 | 14 41 | 7 5 |
| W 5 | 4 49 | 8 55 | 3 20 | 1 42 | 1 55 | 13 43 | 0 4 | 23 25 | 0 39 | 7 27 | 1 4 | 16 15 | 1 56 | 20 45 | 0 36 | 22 22 | 0 50 | 16 12 | 7 7 | 2 55 | 2 46 | 0 44 | 14 41 | 7 4 |
| T 6 | 5 12 | 4 36 | 2 10 | 0 59 | 1 53 | 14 10 | 0 1 | 23 23 | 0 40 | 7 32 | 1 4 | 16 16 | 1 55 | 20 45 | 0 36 | 22 22 | 0 50 | 16 12 | 7 8 | 2 56 | 2 45 | 0 46 | 14 42 | 7 4 |
| F 7 | 5 35 | 0n 6 | 0 50 | 0 15 | 1 51 | 14 36 | 0s 2 | 23 22 | 0 42 | 7 36 | 1 4 | 16 18 | 1 55 | 20 45 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 56 | 2 43 | 0 48 | 14 42 | 7 3 |
| S 8 | 5 58 | 4 49 | 0s34 | 0s29 | 1 48 | 15 2 | 0 5 | 23 20 | 0 44 | 7 41 | 1 4 | 16 20 | 1 55 | 20 45 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 56 | 2 42 | 0 50 | 14 42 | 7 3 |
| S 9 | 6 21 | 9 12 | 1 56 | 1 13 | 1 44 | 15 28 | 0 7 | 23 19 | 0 45 | 7 46 | 1 4 | 16 21 | 1 55 | 20 45 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 56 | 2 41 | 0 52 | 14 43 | 7 2 |
| M10 | 6 44 | 12 57 | 3 8 | 1 58 | 1 41 | 15 53 | 0 10 | 23 17 | 0 47 | 7 51 | 1 4 | 16 23 | 1 55 | 20 45 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 55 | 2 40 | 0 54 | 14 43 | 7 2 |
| T 11 | 7 7 | 15 46 | 4 6 | 2 43 | 1 36 | 16 18 | 0 13 | 23 15 | 0 48 | 7 56 | 1 4 | 16 25 | 1 55 | 20 45 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 55 | 2 38 | 0 55 | 14 44 | 7 1 |
| W12 | 7 29 | 17 33 | 4 48 | 3 28 | 1 32 | 16 42 | 0 16 | 23 14 | 0 50 | 8 1 | 1 4 | 16 27 | 1 55 | 20 45 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 54 | 2 37 | 0 57 | 14 44 | 7 0 |
| T 13 | 7 52 | 18 14 | 5 11 | 4 13 | 1 27 | 17 7 | 0 18 | 23 12 | 0 52 | 8 6 | 1 4 | 16 28 | 1 54 | 20 45 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 54 | 2 36 | 0 59 | 14 44 | 7 0 |
| F 14 | 8 14 | 17 53 | 5 17 | 4 57 | 1 21 | 17 30 | 0 21 | 23 10 | 0 53 | 8 11 | 1 4 | 16 30 | 1 54 | 20 44 | 0 36 | 22 22 | 0 50 | 16 11 | 7 8 | 2 53 | 2 34 | 1 1 | 14 45 | 6 59 |
| S 15 | 8 37 | 16 37 | 5 7 | 5 42 | 1 16 | 17 53 | 0 24 | 23 8 | 0 55 | 8 15 | 1 4 | 16 32 | 1 54 | 20 44 | 0 36 | 22 22 | 0 50 | 16 10 | 7 8 | 2 53 | 2 33 | 1 3 | 14 45 | 6 59 |
| S 16 | 8 59 | 14 35 | 4 42 | 6 26 | 1 10 | 18 16 | 0 27 | 23 6 | 0 57 | 8 20 | 1 4 | 16 34 | 1 54 | 20 44 | 0 36 | 22 22 | 0 50 | 16 10 | 7 9 | 2 53 | 2 32 | 1 5 | 14 45 | 6 58 |
| M17 | 9 21 | 11 57 | 4 5 | 7 10 | 1 4 | 18 38 | 0 30 | 23 5 | 0 59 | 8 25 | 1 4 | 16 36 | 1 54 | 20 44 | 0 36 | 22 22 | 0 50 | 16 10 | 7 9 | 2 54 | 2 31 | 1 6 | 14 46 | 6 58 |
| T 18 | 9 43 | 8 50 | 3 18 | 7 53 | 0 58 | 19 0 | 0 33 | 23 3 | 1 0 | 8 30 | 1 4 | 16 37 | 1 54 | 20 44 | 0 36 | 22 22 | 0 50 | 16 10 | 7 9 | 2 54 | 2 29 | 1 8 | 14 46 | 6 57 |
| W19 | 10 5 | 5 24 | 2 23 | 8 36 | 0 52 | 19 22 | 0 35 | 23 1 | 1 2 | 8 35 | 1 4 | 16 39 | 1 54 | 20 44 | 0 36 | 22 22 | 0 50 | 16 10 | 7 9 | 2 55 | 2 28 | 1 10 | 14 46 | 6 57 |
| T 20 | 10 27 | 1 46 | 1 22 | 9 19 | 0 46 | 19 42 | 0 38 | 22 59 | 1 4 | 8 39 | 1 4 | 16 41 | 1 54 | 20 44 | 0 36 | 22 22 | 0 50 | 16 10 | 7 9 | 2 55 | 2 27 | 1 12 | 14 47 | 6 56 |
| F 21 | 10 48 | 1s56 | 0 18 | 10 1 | 0 39 | 20 3 | 0 41 | 22 57 | 1 6 | 8 44 | 1 4 | 16 43 | 1 53 | 20 44 | 0 36 | 22 22 | 0 50 | 16 10 | 7 9 | 2 56 | 2 26 | 1 14 | 14 47 | 6 56 |
| S 22 | 11 9 | 5 34 | 0n47 | 10 42 | 0 33 | 20 22 | 0 44 | 22 55 | 1 8 | 8 49 | 1 4 | 16 44 | 1 53 | 20 44 | 0 36 | 22 22 | 0 49 | 16 10 | 7 9 | 2 56 | 2 24 | 1 16 | 14 47 | 6 55 |
| S 23 | 11 31 | 9 1 | 1 51 | 11 23 | 0 26 | 20 42 | 0 46 | 22 54 | 1 10 | 8 54 | 1 4 | 16 46 | 1 53 | 20 43 | 0 36 | 22 22 | 0 49 | 16 10 | 7 9 | 2 55 | 2 23 | 1 17 | 14 47 | 6 55 |
| M24 | 11 52 | 12 7 | 2 50 | 12 4 | 0 19 | 21 0 | 0 49 | 22 52 | 1 11 | 8 59 | 1 4 | 16 48 | 1 53 | 20 43 | 0 36 | 22 22 | 0 49 | 16 9 | 7 9 | 2 54 | 2 22 | 1 19 | 14 48 | 6 54 |
| T 25 | 12 12 | 14 45 | 3 42 | 12 43 | 0 13 | 21 18 | 0 52 | 22 50 | 1 13 | 9 3 | 1 4 | 16 50 | 1 53 | 20 43 | 0 36 | 22 22 | 0 49 | 16 9 | 7 9 | 2 53 | 2 21 | 1 21 | 14 48 | 6 54 |
| W26 | 12 33 | 16 44 | 4 24 | 13 22 | 0 6 | 21 36 | 0 55 | 22 48 | 1 15 | 9 8 | 1 4 | 16 52 | 1 53 | 20 43 | 0 36 | 22 22 | 0 49 | 16 9 | 7 9 | 2 51 | 2 19 | 1 23 | 14 48 | 6 53 |
| T 27 | 12 54 | 17 57 | 4 55 | 14 0 | 0s 1 | 21 53 | 0 57 | 22 47 | 1 17 | 9 13 | 1 4 | 16 53 | 1 53 | 20 43 | 0 36 | 22 22 | 0 49 | 16 9 | 7 9 | 2 49 | 2 18 | 1 25 | 14 48 | 6 53 |
| F 28 | 13 14 | 18 18 | 5 11 | 14 38 | 0 7 | 22 9 | 1 0 | 22 45 | 1 19 | 9 18 | 1 4 | 16 55 | 1 53 | 20 42 | 0 36 | 22 22 | 0 49 | 16 9 | 7 10 | 2 47 | 2 17 | 1 27 | 14 48 | 6 52 |
| S 29 | 13 34 | 17 42 | 5 12 | 15 14 | 0 14 | 22 25 | 1 3 | 22 43 | 1 21 | 9 22 | 1 4 | 16 57 | 1 53 | 20 42 | 0 36 | 22 22 | 0 49 | 16 9 | 7 10 | 2 46 | 2 16 | 1 28 | 14 48 | 6 52 |
| S 30 | 13 54 | 16 8 | 4 57 | 15 50 | 0 21 | 22 40 | 1 5 | 22 42 | 1 23 | 9 27 | 1 4 | 16 59 | 1 53 | 20 42 | 0 36 | 22 22 | 0 49 | 16 9 | 7 10 | 2 45 | 2 14 | 1 30 | 14 49 | 6 51 |
| M31 | 14s13 | 13s39 | 4n24 | 16s25 | 0s27 | 22s54 | 1s 8 | 22n40 | 1n25 | 9s32 | 1n 4 | 17s 0 | 1n52 | 20s42 | 0s36 | 22s22 | 0n49 | 16n 9 | 7s10 | 2s45 | 2s13 | 1s32 | 14s49 | 6n51 |

Julian Day Number = 2328001.5, Delta T = 35.19 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'08, Lahiri = 19°08'09Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## NOVEMBER 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 42 47 | 9♏ 4'12 | 23♒23 | 15♏19 | 9♐56 | 24♋44 | 27♎29 | 24♏12 | 0♒22 | 8♑55 | 23°R 1 | 6♎56 | 5♎31 | 3♎31 | 22♑44 | T 1 |
| W 2 | 2 46 43 | 10° 4'26 | 7♓36 | 16°53 | 11° 9 | 25° 3 | 27°42 | 24°19 | 0°23 | 8°56 | 23♊ 0 | 6°57 | 5°28 | 3°38 | 22°46 | W 2 |
| T 3 | 2 50 40 | 11° 4'41 | 22° 6 | 18°27 | 12°23 | 25°21 | 27°55 | 24°26 | 0°24 | 8°58 | 22°59 | 6°59 | 5°25 | 3°44 | 22°49 | T 3 |
| F 4 | 2 54 36 | 12° 4'58 | 6♈50 | 20° 0 | 13°37 | 25°39 | 28° 8 | 24°33 | 0°26 | 8°59 | 22°59 | 7°R 0 | 5°22 | 3°51 | 22°51 | F 4 |
| S 5 | 2 58 33 | 13° 5'16 | 21°44 | 21°33 | 14°50 | 25°56 | 28°21 | 24°40 | 0°27 | 9° 1 | 22°58 | 6°59 | 5°19 | 3°58 | 22°54 | S 5 |
| S 6 | 3 2 30 | 14° 5'36 | 6♉40 | 23° 6 | 16° 4 | 26°13 | 28°34 | 24°47 | 0°28 | 9° 2 | 22°57 | 6°56 | 5°15 | 4° 4 | 22°57 | S 6 |
| M 7 | 3 6 26 | 15° 5'58 | 21°30 | 24°39 | 17°17 | 26°29 | 28°47 | 24°54 | 0°30 | 9° 4 | 22°56 | 6°52 | 5°12 | 4°11 | 22°59 | M 7 |
| T 8 | 3 10 23 | 16° 6'22 | 6♊ 6 | 26°11 | 18°31 | 26°45 | 29° 0 | 25° 1 | 0°31 | 9° 5 | 22°55 | 6°46 | 5° 9 | 4°18 | 23° 2 | T 8 |
| W 9 | 3 14 19 | 17° 6'47 | 20°20 | 27°43 | 19°44 | 27° 0 | 29°12 | 25° 8 | 0°33 | 9° 7 | 22°54 | 6°39 | 5° 6 | 4°24 | 23° 5 | W 9 |
| T 10 | 3 18 16 | 18° 7'14 | 4♋ 9 | 29°14 | 20°58 | 27°15 | 29°25 | 25°15 | 0°34 | 9° 8 | 22°53 | 6°33 | 5° 3 | 4°31 | 23° 8 | T 10 |
| F 11 | 3 22 12 | 19° 7'43 | 17°30 | 0♐46 | 22°11 | 27°29 | 29°38 | 25°22 | 0°36 | 9°10 | 22°52 | 6°27 | 4°59 | 4°37 | 23°11 | F 11 |
| S 12 | 3 26 9 | 20° 8'14 | 0♌26 | 2°17 | 23°25 | 27°42 | 29°51 | 25°29 | 0°37 | 9°11 | 22°51 | 6°23 | 4°56 | 4°44 | 23°14 | S 12 |
| S 13 | 3 30 5 | 21° 8'46 | 12°58 | 3°47 | 24°38 | 27°55 | 0♏ 3 | 25°36 | 0°39 | 9°13 | 22°50 | 6°21 | 4°53 | 4°51 | 23°17 | S 13 |
| M14 | 3 34 2 | 22° 9'20 | 25°10 | 5°18 | 25°52 | 28° 7 | 0°16 | 25°43 | 0°41 | 9°15 | 22°49 | 6°D21 | 4°50 | 4°57 | 23°20 | M14 |
| T 15 | 3 37 59 | 23° 9'56 | 7♍ 9 | 6°48 | 27° 5 | 28°19 | 0°29 | 25°50 | 0°43 | 9°16 | 22°48 | 6°22 | 4°47 | 5° 4 | 23°24 | T 15 |
| W16 | 3 41 55 | 24°10'34 | 18°59 | 8°18 | 28°18 | 28°30 | 0°41 | 25°57 | 0°44 | 9°18 | 22°47 | 6°23 | 4°44 | 5°11 | 23°27 | W16 |
| T 17 | 3 45 52 | 25°11'14 | 0♎46 | 9°47 | 29°32 | 28°41 | 0°54 | 26° 5 | 0°46 | 9°20 | 22°46 | 6°R24 | 4°40 | 5°17 | 23°30 | T 17 |
| F 18 | 3 49 48 | 26°11'55 | 12°33 | 11°16 | 0♑45 | 28°50 | 1° 6 | 26°12 | 0°48 | 9°22 | 22°45 | 6°24 | 4°37 | 5°24 | 23°34 | F 18 |
| S 19 | 3 53 45 | 27°12'37 | 24°26 | 12°45 | 1°58 | 28°59 | 1°19 | 26°19 | 0°50 | 9°23 | 22°44 | 6°22 | 4°34 | 5°31 | 23°37 | S 19 |
| S 20 | 3 57 41 | 28°13'22 | 6♏28 | 14°13 | 3°12 | 29° 8 | 1°31 | 26°26 | 0°52 | 9°25 | 22°43 | 6°18 | 4°31 | 5°37 | 23°40 | S 20 |
| M21 | 4 1 38 | 29°14'07 | 18°41 | 15°41 | 4°25 | 29°15 | 1°43 | 26°33 | 0°54 | 9°27 | 22°42 | 6°11 | 4°28 | 5°44 | 23°44 | M21 |
| T 22 | 4 5 34 | 0♐14'54 | 1♐ 6 | 17° 8 | 5°38 | 29°22 | 1°56 | 26°40 | 0°56 | 9°29 | 22°41 | 6° 2 | 4°24 | 5°51 | 23°48 | T 22 |
| W23 | 4 9 31 | 1°15'43 | 13°45 | 18°35 | 6°51 | 29°29 | 2° 8 | 26°47 | 0°58 | 9°31 | 22°40 | 5°52 | 4°21 | 5°57 | 23°51 | W23 |
| T 24 | 4 13 28 | 2°16'32 | 26°37 | 20° 1 | 8° 4 | 29°34 | 2°20 | 26°54 | 1° 1 | 9°33 | 22°39 | 5°41 | 4°18 | 6° 4 | 23°55 | T 24 |
| F 25 | 4 17 24 | 3°17'23 | 9♑41 | 21°26 | 9°18 | 29°39 | 2°32 | 27° 1 | 1° 3 | 9°35 | 22°38 | 5°31 | 4°15 | 6°10 | 23°59 | F 25 |
| S 26 | 4 21 21 | 4°18'15 | 22°57 | 22°50 | 10°31 | 29°43 | 2°44 | 27° 8 | 1° 5 | 9°36 | 22°37 | 5°23 | 4°12 | 6°17 | 24° 3 | S 26 |
| S 27 | 4 25 17 | 5°19'08 | 6♒24 | 24°13 | 11°44 | 29°46 | 2°56 | 27°16 | 1° 7 | 9°38 | 22°36 | 5°17 | 4° 9 | 6°24 | 24° 6 | S 27 |
| M28 | 4 29 14 | 6°20'01 | 20° 2 | 25°34 | 12°57 | 29°49 | 3° 8 | 27°23 | 1°10 | 9°40 | 22°34 | 5°13 | 4° 5 | 6°30 | 24°10 | M28 |
| T 29 | 4 33 10 | 7°20'55 | 3♓51 | 26°54 | 14°10 | 29°50 | 3°20 | 27°30 | 1°12 | 9°42 | 22°33 | 5°D12 | 4° 2 | 6°37 | 24°14 | T 29 |
| W30 | 4 37 7 | 8♐21'50 | 17♓51 | 28♐13 | 15♑23 | 29♋51 | 3♏32 | 27♏37 | 1♒15 | 9♑44 | 22♊32 | 5♎12 | 3♎59 | 6♎44 | 24♑18 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s33 | 10s20 | 3n36 | 17s 0 | 0s34 | 23s 8 | 1s10 | 22n39 | 1n27 | 9s36 | 1n 4 | 17s 2 | 1n52 | 20s41 | 0s36 | 22s22 | 0n49 | 16n 9 | 7s10 | 2s45 | 2s12 | 1s34 | 14s49 | 6n50 |
| W 2 | 14 52 | 6 21 | 2 34 | 17 33 | 0 40 | 23 21 | 1 13 | 22 38 | 1 29 | 9 41 | 1 4 | 17 4 | 1 52 | 20 41 | 0 36 | 22 22 | 0 49 | 16 8 | 7 10 | 2 46 | 2 11 | 1 36 | 14 49 | 6 50 |
| T 3 | 15 11 | 1 54 | 1 21 | 18 6 | 0 47 | 23 34 | 1 15 | 22 36 | 1 32 | 9 45 | 1 4 | 17 6 | 1 52 | 20 41 | 0 36 | 22 22 | 0 49 | 16 8 | 7 10 | 2 47 | 2 9 | 1 38 | 14 49 | 6 49 |
| F 4 | 15 29 | 2n44 | 0 1 | 18 38 | 0 53 | 23 46 | 1 18 | 22 35 | 1 34 | 9 50 | 1 4 | 17 8 | 1 52 | 20 40 | 0 36 | 22 22 | 0 49 | 16 8 | 7 10 | 2 47 | 2 8 | 1 39 | 14 49 | 6 49 |
| S 5 | 15 48 | 7 15 | 1s20 | 19 8 | 0 59 | 23 57 | 1 20 | 22 34 | 1 36 | 9 55 | 1 4 | 17 9 | 1 52 | 20 40 | 0 36 | 22 22 | 0 49 | 16 8 | 7 10 | 2 46 | 2 7 | 1 41 | 14 49 | 6 48 |
| S 6 | 16 6 | 11 20 | 2 35 | 19 38 | 1 6 | 24 7 | 1 23 | 22 33 | 1 38 | 9 59 | 1 4 | 17 11 | 1 52 | 20 40 | 0 36 | 22 21 | 0 49 | 16 8 | 7 10 | 2 45 | 2 5 | 1 43 | 14 49 | 6 48 |
| M 7 | 16 24 | 14 39 | 3 39 | 20 7 | 1 12 | 24 17 | 1 25 | 22 32 | 1 40 | 10 4 | 1 4 | 17 13 | 1 52 | 20 40 | 0 36 | 22 21 | 0 49 | 16 8 | 7 10 | 2 44 | 2 4 | 1 45 | 14 49 | 6 47 |
| T 8 | 16 41 | 16 58 | 4 27 | 20 35 | 1 17 | 24 26 | 1 27 | 22 31 | 1 43 | 10 8 | 1 4 | 17 15 | 1 52 | 20 39 | 0 36 | 22 21 | 0 49 | 16 8 | 7 10 | 2 41 | 2 3 | 1 47 | 14 49 | 6 47 |
| W 9 | 16 58 | 18 11 | 4 58 | 21 2 | 1 23 | 24 34 | 1 29 | 22 30 | 1 45 | 10 13 | 1 4 | 17 16 | 1 52 | 20 39 | 0 36 | 22 21 | 0 49 | 16 8 | 7 10 | 2 39 | 2 2 | 1 49 | 14 49 | 6 47 |
| T 10 | 17 15 | 18 15 | 5 10 | 21 28 | 1 29 | 24 42 | 1 32 | 22 30 | 1 47 | 10 17 | 1 4 | 17 18 | 1 52 | 20 38 | 0 35 | 22 21 | 0 49 | 16 8 | 7 10 | 2 36 | 2 0 | 1 50 | 14 49 | 6 46 |
| F 11 | 17 32 | 17 18 | 5 5 | 21 53 | 1 34 | 24 49 | 1 34 | 22 29 | 1 49 | 10 22 | 1 4 | 17 20 | 1 52 | 20 38 | 0 35 | 22 21 | 0 49 | 16 8 | 7 10 | 2 34 | 1 59 | 1 52 | 14 49 | 6 46 |
| S 12 | 17 49 | 15 28 | 4 44 | 22 17 | 1 39 | 24 55 | 1 36 | 22 29 | 1 52 | 10 26 | 1 4 | 17 22 | 1 52 | 20 38 | 0 35 | 22 21 | 0 49 | 16 7 | 7 10 | 2 32 | 1 58 | 1 54 | 14 49 | 6 45 |
| S 13 | 18 5 | 12 58 | 4 9 | 22 39 | 1 44 | 25 0 | 1 38 | 22 29 | 1 54 | 10 31 | 1 4 | 17 23 | 1 52 | 20 37 | 0 35 | 22 21 | 0 49 | 16 7 | 7 10 | 2 32 | 1 57 | 1 56 | 14 49 | 6 45 |
| M14 | 18 20 | 9 56 | 3 25 | 23 1 | 1 49 | 25 5 | 1 40 | 22 28 | 1 57 | 10 35 | 1 4 | 17 25 | 1 51 | 20 37 | 0 35 | 22 21 | 0 49 | 16 7 | 7 11 | 2 31 | 1 55 | 1 58 | 14 49 | 6 44 |
| T 15 | 18 36 | 6 33 | 2 32 | 23 21 | 1 54 | 25 9 | 1 42 | 22 28 | 1 59 | 10 39 | 1 4 | 17 27 | 1 51 | 20 37 | 0 35 | 22 21 | 0 49 | 16 7 | 7 11 | 2 32 | 1 54 | 2 0 | 14 49 | 6 44 |
| W16 | 18 51 | 2 56 | 1 33 | 23 40 | 1 58 | 25 12 | 1 44 | 22 29 | 2 1 | 10 44 | 1 4 | 17 28 | 1 51 | 20 36 | 0 35 | 22 21 | 0 49 | 16 7 | 7 11 | 2 32 | 1 53 | 2 1 | 14 49 | 6 44 |
| T 17 | 19 6 | 0s46 | 0 31 | 23 58 | 2 2 | 25 14 | 1 45 | 22 29 | 2 4 | 10 48 | 1 4 | 17 30 | 1 51 | 20 36 | 0 35 | 22 21 | 0 49 | 16 7 | 7 11 | 2 33 | 1 52 | 2 3 | 14 48 | 6 43 |
| F 18 | 19 20 | 4 28 | 0n33 | 24 15 | 2 6 | 25 16 | 1 47 | 22 29 | 2 6 | 10 52 | 1 4 | 17 32 | 1 51 | 20 35 | 0 35 | 22 20 | 0 49 | 16 7 | 7 11 | 2 33 | 1 50 | 2 5 | 14 48 | 6 43 |
| S 19 | 19 34 | 8 0 | 1 36 | 24 30 | 2 10 | 25 17 | 1 49 | 22 30 | 2 9 | 10 57 | 1 4 | 17 33 | 1 51 | 20 35 | 0 35 | 22 20 | 0 49 | 16 7 | 7 11 | 2 32 | 1 49 | 2 7 | 14 48 | 6 42 |
| S 20 | 19 48 | 11 16 | 2 35 | 24 45 | 2 13 | 25 17 | 1 50 | 22 31 | 2 11 | 11 1 | 1 4 | 17 35 | 1 51 | 20 34 | 0 35 | 22 20 | 0 49 | 16 7 | 7 11 | 2 30 | 1 48 | 2 9 | 14 48 | 6 42 |
| M21 | 20 1 | 14 5 | 3 27 | 24 57 | 2 16 | 25 16 | 1 52 | 22 31 | 2 14 | 11 5 | 1 4 | 17 37 | 1 51 | 20 34 | 0 35 | 22 20 | 0 49 | 16 7 | 7 11 | 2 28 | 1 47 | 2 11 | 14 48 | 6 42 |
| T 22 | 20 14 | 16 19 | 4 11 | 25 9 | 2 18 | 25 15 | 1 53 | 22 33 | 2 17 | 11 9 | 1 4 | 17 39 | 1 51 | 20 33 | 0 35 | 22 20 | 0 49 | 16 7 | 7 11 | 2 24 | 1 45 | 2 12 | 14 48 | 6 41 |
| W23 | 20 27 | 17 49 | 4 43 | 25 19 | 2 20 | 25 13 | 1 55 | 22 34 | 2 19 | 11 14 | 1 5 | 17 40 | 1 51 | 20 33 | 0 35 | 22 20 | 0 48 | 16 7 | 7 11 | 2 20 | 1 44 | 2 14 | 14 47 | 6 41 |
| T 24 | 20 39 | 18 25 | 5 1 | 25 28 | 2 22 | 25 10 | 1 56 | 22 35 | 2 22 | 11 18 | 1 5 | 17 42 | 1 51 | 20 32 | 0 35 | 22 20 | 0 48 | 16 6 | 7 11 | 2 16 | 1 43 | 2 16 | 14 47 | 6 40 |
| F 25 | 20 51 | 18 4 | 5 4 | 25 35 | 2 23 | 25 6 | 1 57 | 22 37 | 2 24 | 11 22 | 1 5 | 17 43 | 1 51 | 20 32 | 0 35 | 22 20 | 0 48 | 16 6 | 7 11 | 2 12 | 1 42 | 2 18 | 14 47 | 6 40 |
| S 26 | 21 2 | 16 45 | 4 51 | 25 41 | 2 24 | 25 2 | 1 59 | 22 38 | 2 27 | 11 26 | 1 5 | 17 45 | 1 51 | 20 31 | 0 35 | 22 20 | 0 48 | 16 6 | 7 11 | 2 8 | 1 40 | 2 20 | 14 47 | 6 40 |
| S 27 | 21 14 | 14 29 | 4 22 | 25 45 | 2 24 | 24 57 | 2 0 | 22 40 | 2 30 | 11 30 | 1 5 | 17 47 | 1 51 | 20 31 | 0 35 | 22 20 | 0 48 | 16 6 | 7 11 | 2 6 | 1 39 | 2 21 | 14 46 | 6 39 |
| M28 | 21 24 | 11 24 | 3 37 | 25 48 | 2 24 | 24 51 | 2 1 | 22 42 | 2 32 | 11 34 | 1 5 | 17 48 | 1 51 | 20 30 | 0 35 | 22 19 | 0 48 | 16 6 | 7 11 | 2 5 | 1 38 | 2 23 | 14 46 | 6 39 |
| T 29 | 21 34 | 7 38 | 2 39 | 25 50 | 2 23 | 24 44 | 2 2 | 22 45 | 2 35 | 11 38 | 1 5 | 17 50 | 1 51 | 20 30 | 0 35 | 22 19 | 0 48 | 16 6 | 7 11 | 2 4 | 1 36 | 2 25 | 14 46 | 6 39 |
| W30 | 21s44 | 3s25 | 1n31 | 25s50 | 2s22 | 24s37 | 2s 2 | 22n47 | 2n38 | 11s42 | 1n 5 | 17s52 | 1n51 | 20s29 | 0s35 | 22s19 | 0n48 | 16n 6 | 7s11 | 2s 4 | 1s35 | 2s27 | 14s45 | 6n38 |

Julian Day Number = 2328032.5, Delta T = 35.14 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'12, Lahiri = 19°08'13Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1661
# geocentric

## DECEMBER 1661 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 41 3 | 9♐22'46 | 2♈ 2 | 29♐29 | 16♑35 | 29°R51 | 3♏44 | 27♏44 | 1♒17 | 9♑46 | 22°R31 | 5°R12 | 3♎56 | 6♎50 | 24♑22 | T 1 |
| F 2 | 4 45 0 | 10°23'42 | 16°23 | 0♑43 | 17°48 | 29♋51 | 3°56 | 27°51 | 1°19 | 9°48 | 22♊30 | 5♎12 | 3°53 | 6°57 | 24°26 | F 2 |
| S 3 | 4 48 57 | 11°24'39 | 0♉51 | 1°55 | 19° 1 | 29°49 | 4° 8 | 27°58 | 1°22 | 9°50 | 22°29 | 5°10 | 3°50 | 7° 4 | 24°30 | S 3 |
| S 4 | 4 52 53 | 12°25'37 | 15°22 | 3° 3 | 20°14 | 29°47 | 4°19 | 28° 5 | 1°25 | 9°53 | 22°27 | 5° 4 | 3°46 | 7°10 | 24°35 | S 4 |
| M 5 | 4 56 50 | 13°26'36 | 29°50 | 4° 8 | 21°27 | 29°44 | 4°31 | 28°12 | 1°27 | 9°55 | 22°26 | 4°56 | 3°43 | 7°17 | 24°39 | M 5 |
| T 6 | 5 0 46 | 14°27'35 | 14♊10 | 5° 9 | 22°39 | 29°40 | 4°42 | 28°19 | 1°30 | 9°57 | 22°25 | 4°46 | 3°40 | 7°24 | 24°43 | T 6 |
| W 7 | 5 4 43 | 15°28'36 | 28°14 | 6° 5 | 23°52 | 29°35 | 4°54 | 28°26 | 1°32 | 9°59 | 22°24 | 4°34 | 3°37 | 7°30 | 24°47 | W 7 |
| T 8 | 5 8 39 | 16°29'37 | 11♋58 | 6°55 | 25° 4 | 29°30 | 5° 5 | 28°32 | 1°35 | 10° 1 | 22°23 | 4°22 | 3°34 | 7°37 | 24°52 | T 8 |
| F 9 | 5 12 36 | 17°30'39 | 25°19 | 7°40 | 26°17 | 29°23 | 5°16 | 28°39 | 1°38 | 10° 3 | 22°22 | 4°12 | 3°30 | 7°44 | 24°56 | F 9 |
| S 10 | 5 16 32 | 18°31'42 | 8♌16 | 8°17 | 27°29 | 29°16 | 5°28 | 28°46 | 1°41 | 10° 5 | 22°20 | 4° 3 | 3°27 | 7°50 | 25° 0 | S 10 |
| S 11 | 5 20 29 | 19°32'46 | 20°50 | 8°47 | 28°41 | 29° 8 | 5°39 | 28°53 | 1°43 | 10° 7 | 22°19 | 3°57 | 3°24 | 7°57 | 25° 5 | S 11 |
| M12 | 5 24 26 | 20°33'50 | 3♍ 5 | 9° 8 | 29°54 | 28°59 | 5°50 | 29° 0 | 1°46 | 10° 9 | 22°18 | 3°53 | 3°21 | 8° 3 | 25° 9 | M12 |
| T 13 | 5 28 22 | 21°34'56 | 15° 6 | 9°19 | 1♒ 6 | 28°49 | 6° 1 | 29° 7 | 1°49 | 10°12 | 22°17 | 3°52 | 3°18 | 8°10 | 25°14 | T 13 |
| W14 | 5 32 19 | 22°36'02 | 26°57 | 9°R20 | 2°18 | 28°38 | 6°12 | 29°13 | 1°52 | 10°14 | 22°16 | 3°52 | 3°15 | 8°17 | 25°18 | W14 |
| T 15 | 5 36 15 | 23°37'09 | 8♎44 | 9°10 | 3°30 | 28°27 | 6°23 | 29°20 | 1°55 | 10°16 | 22°15 | 3°52 | 3°11 | 8°23 | 25°23 | T 15 |
| F 16 | 5 40 12 | 24°38'17 | 20°33 | 8°48 | 4°42 | 28°15 | 6°33 | 29°27 | 1°58 | 10°18 | 22°13 | 3°51 | 3° 8 | 8°30 | 25°28 | F 16 |
| S 17 | 5 44 8 | 25°39'26 | 2♏28 | 8°15 | 5°54 | 28° 1 | 6°44 | 29°33 | 2° 1 | 10°20 | 22°12 | 3°48 | 3° 5 | 8°37 | 25°32 | S 17 |
| S 18 | 5 48 5 | 26°40'35 | 14°36 | 7°30 | 7° 6 | 27°48 | 6°55 | 29°40 | 2° 4 | 10°23 | 22°11 | 3°42 | 3° 2 | 8°43 | 25°37 | S 18 |
| M19 | 5 52 1 | 27°41'45 | 26°58 | 6°34 | 8°18 | 27°33 | 7° 5 | 29°47 | 2° 7 | 10°25 | 22°10 | 3°33 | 2°59 | 8°50 | 25°42 | M19 |
| T 20 | 5 55 58 | 28°42'55 | 9♐37 | 5°29 | 9°30 | 27°17 | 7°16 | 29°53 | 2°10 | 10°27 | 22° 9 | 3°22 | 2°56 | 8°57 | 25°46 | T 20 |
| W21 | 5 59 55 | 29°44'06 | 22°34 | 4°15 | 10°41 | 27° 1 | 7°26 | 29°59 | 2°13 | 10°29 | 22° 7 | 3° 9 | 2°52 | 9° 3 | 25°51 | W21 |
| T 22 | 6 3 51 | 0♑45'17 | 5♑48 | 2°57 | 11°53 | 26°44 | 7°36 | 0♐ 6 | 2°16 | 10°32 | 22° 6 | 2°55 | 2°49 | 9°10 | 25°56 | T 22 |
| F 23 | 6 7 48 | 1°46'29 | 19°17 | 1°35 | 13° 4 | 26°27 | 7°46 | 0°13 | 2°19 | 10°34 | 22° 5 | 2°42 | 2°46 | 9°17 | 26° 1 | F 23 |
| S 24 | 6 11 44 | 2°47'40 | 2♒58 | 0°13 | 14°16 | 26° 8 | 7°56 | 0°19 | 2°22 | 10°36 | 22° 4 | 2°30 | 2°43 | 9°23 | 26° 5 | S 24 |
| S 25 | 6 15 41 | 3°48'52 | 16°48 | 28♐54 | 15°27 | 25°49 | 8° 6 | 0°25 | 2°26 | 10°38 | 22° 3 | 2°22 | 2°40 | 9°30 | 26°10 | S 25 |
| M26 | 6 19 37 | 4°50'03 | 0♓44 | 27°40 | 16°38 | 25°30 | 8°16 | 0°32 | 2°29 | 10°41 | 22° 2 | 2°17 | 2°36 | 9°36 | 26°15 | M26 |
| T 27 | 6 23 34 | 5°51'14 | 14°43 | 26°32 | 17°49 | 25°10 | 8°26 | 0°38 | 2°32 | 10°43 | 22° 0 | 2°14 | 2°33 | 9°43 | 26°20 | T 27 |
| W28 | 6 27 31 | 6°52'25 | 28°46 | 25°33 | 19° 0 | 24°49 | 8°35 | 0°44 | 2°35 | 10°45 | 21°59 | 2°13 | 2°30 | 9°50 | 26°25 | W28 |
| T 29 | 6 31 27 | 7°53'36 | 12♈50 | 24°43 | 20°11 | 24°28 | 8°45 | 0°50 | 2°38 | 10°47 | 21°58 | 2°13 | 2°27 | 9°56 | 26°30 | T 29 |
| F 30 | 6 35 24 | 8°54'46 | 26°55 | 24° 4 | 21°22 | 24° 6 | 8°54 | 0°56 | 2°42 | 10°50 | 21°57 | 2°13 | 2°24 | 10° 3 | 26°35 | F 30 |
| S 31 | 6 39 20 | 9♑55'56 | 11♉ 1 | 23♐34 | 22♒33 | 23♋44 | 9♏ 3 | 1♐ 2 | 2♒45 | 10♑52 | 21♊56 | 2♎10 | 2♎21 | 10♎10 | 26♑40 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s54 | 1n 4 | 0n17 | 25s48 | 2s20 | 24s29 | 2s 3 | 22n50 | 2n41 | 11s46 | 1n 5 | 17s53 | 1n51 | 20s29 | 0s35 | 22s19 | 0n48 | 16n 6 | 7s11 | 2s 4 | 1s34 | 2s29 | 14s45 | 6n38 |
| F 2 | 22 3 | 5 32 | 0s59 | 25 45 | 2 17 | 24 20 | 2 4 | 22 53 | 2 43 | 11 50 | 1 5 | 17 55 | 1 51 | 20 28 | 0 35 | 22 19 | 0 48 | 16 6 | 7 11 | 2 4 | 1 33 | 2 31 | 14 45 | 6 38 |
| S 3 | 22 11 | 9 43 | 2 12 | 25 41 | 2 13 | 24 11 | 2 4 | 22 56 | 2 46 | 11 54 | 1 5 | 17 56 | 1 51 | 20 28 | 0 35 | 22 19 | 0 48 | 16 6 | 7 11 | 2 3 | 1 31 | 2 32 | 14 44 | 6 37 |
| S 4 | 22 19 | 13 20 | 3 17 | 25 35 | 2 9 | 24 1 | 2 5 | 22 59 | 2 49 | 11 58 | 1 5 | 17 58 | 1 51 | 20 27 | 0 35 | 22 19 | 0 48 | 16 6 | 7 11 | 2 1 | 1 30 | 2 34 | 14 44 | 6 37 |
| M 5 | 22 27 | 16 7 | 4 8 | 25 28 | 2 3 | 23 50 | 2 5 | 23 2 | 2 52 | 12 1 | 1 5 | 17 59 | 1 51 | 20 26 | 0 35 | 22 19 | 0 48 | 16 6 | 7 11 | 1 58 | 1 29 | 2 36 | 14 43 | 6 37 |
| T 6 | 22 34 | 17 51 | 4 43 | 25 19 | 1 57 | 23 38 | 2 6 | 23 6 | 2 55 | 12 5 | 1 5 | 18 1 | 1 51 | 20 26 | 0 35 | 22 18 | 0 48 | 16 6 | 7 11 | 1 54 | 1 28 | 2 38 | 14 43 | 6 36 |
| W 7 | 22 41 | 18 28 | 5 0 | 25 10 | 1 49 | 23 26 | 2 6 | 23 10 | 2 57 | 12 9 | 1 5 | 18 2 | 1 51 | 20 25 | 0 35 | 22 18 | 0 48 | 16 6 | 7 11 | 1 49 | 1 26 | 2 40 | 14 43 | 6 36 |
| T 8 | 22 48 | 17 58 | 5 0 | 24 59 | 1 41 | 23 13 | 2 6 | 23 14 | 3 0 | 12 13 | 1 5 | 18 4 | 1 51 | 20 25 | 0 35 | 22 18 | 0 48 | 16 6 | 7 11 | 1 44 | 1 25 | 2 41 | 14 42 | 6 36 |
| F 9 | 22 54 | 16 29 | 4 42 | 24 46 | 1 31 | 23 0 | 2 6 | 23 18 | 3 3 | 12 16 | 1 6 | 18 5 | 1 51 | 20 24 | 0 35 | 22 18 | 0 48 | 16 6 | 7 11 | 1 40 | 1 24 | 2 43 | 14 42 | 6 35 |
| S 10 | 22 59 | 14 12 | 4 11 | 24 33 | 1 20 | 22 46 | 2 6 | 23 22 | 3 6 | 12 20 | 1 6 | 18 7 | 1 51 | 20 23 | 0 35 | 22 18 | 0 48 | 16 6 | 7 11 | 1 37 | 1 23 | 2 45 | 14 41 | 6 35 |
| S 11 | 23 4 | 11 18 | 3 28 | 24 19 | 1 8 | 22 31 | 2 6 | 23 26 | 3 8 | 12 24 | 1 6 | 18 8 | 1 51 | 20 23 | 0 35 | 22 18 | 0 48 | 16 6 | 7 10 | 1 34 | 1 21 | 2 47 | 14 41 | 6 35 |
| M12 | 23 9 | 7 58 | 2 36 | 24 4 | 0 54 | 22 15 | 2 6 | 23 31 | 3 11 | 12 27 | 1 6 | 18 10 | 1 51 | 20 22 | 0 35 | 22 18 | 0 48 | 16 6 | 7 10 | 1 33 | 1 20 | 2 49 | 14 40 | 6 35 |
| T 13 | 23 13 | 4 23 | 1 38 | 23 49 | 0 40 | 21 59 | 2 5 | 23 36 | 3 14 | 12 31 | 1 6 | 18 11 | 1 51 | 20 21 | 0 35 | 22 17 | 0 48 | 16 6 | 7 10 | 1 32 | 1 19 | 2 51 | 14 40 | 6 34 |
| W14 | 23 16 | 0 39 | 0 37 | 23 32 | 0 23 | 21 43 | 2 5 | 23 41 | 3 17 | 12 34 | 1 6 | 18 13 | 1 51 | 20 21 | 0 35 | 22 17 | 0 48 | 16 6 | 7 10 | 1 32 | 1 18 | 2 52 | 14 39 | 6 34 |
| T 15 | 23 20 | 3s 4 | 0n26 | 23 16 | 0 6 | 21 25 | 2 4 | 23 46 | 3 19 | 12 38 | 1 6 | 18 14 | 1 51 | 20 20 | 0 35 | 22 17 | 0 48 | 16 6 | 7 10 | 1 32 | 1 16 | 2 54 | 14 38 | 6 34 |
| F 16 | 23 22 | 6 41 | 1 27 | 22 59 | 0n12 | 21 7 | 2 4 | 23 51 | 3 22 | 12 41 | 1 6 | 18 15 | 1 51 | 20 19 | 0 35 | 22 17 | 0 48 | 16 6 | 7 10 | 1 32 | 1 15 | 2 56 | 14 38 | 6 34 |
| S 17 | 23 25 | 10 4 | 2 25 | 22 42 | 0 31 | 20 49 | 2 3 | 23 56 | 3 25 | 12 45 | 1 6 | 18 17 | 1 51 | 20 19 | 0 35 | 22 17 | 0 48 | 16 6 | 7 10 | 1 31 | 1 14 | 2 58 | 14 37 | 6 33 |
| S 18 | 23 26 | 13 5 | 3 18 | 22 25 | 0 51 | 20 30 | 2 2 | 24 2 | 3 27 | 12 48 | 1 6 | 18 18 | 1 51 | 20 18 | 0 35 | 22 17 | 0 48 | 16 6 | 7 10 | 1 28 | 1 12 | 3 0 | 14 37 | 6 33 |
| M19 | 23 28 | 15 35 | 4 2 | 22 8 | 1 11 | 20 10 | 2 1 | 24 7 | 3 30 | 12 51 | 1 7 | 18 19 | 1 51 | 20 17 | 0 35 | 22 16 | 0 48 | 16 6 | 7 10 | 1 25 | 1 11 | 3 1 | 14 36 | 6 33 |
| T 20 | 23 28 | 17 24 | 4 35 | 21 51 | 1 31 | 19 50 | 2 0 | 24 13 | 3 33 | 12 55 | 1 7 | 18 21 | 1 51 | 20 17 | 0 35 | 22 16 | 0 48 | 16 6 | 7 10 | 1 20 | 1 10 | 3 3 | 14 35 | 6 33 |
| W21 | 23 29 | 18 22 | 4 55 | 21 35 | 1 50 | 19 30 | 1 59 | 24 18 | 3 35 | 12 58 | 1 7 | 18 22 | 1 51 | 20 16 | 0 35 | 22 16 | 0 48 | 16 6 | 7 10 | 1 15 | 1 9 | 3 5 | 14 35 | 6 33 |
| T 22 | 23 29 | 18 22 | 5 0 | 21 19 | 2 8 | 19 9 | 1 58 | 24 24 | 3 38 | 13 1 | 1 7 | 18 23 | 1 51 | 20 15 | 0 35 | 22 16 | 0 48 | 16 6 | 7 10 | 1 10 | 1 7 | 3 7 | 14 34 | 6 32 |
| F 23 | 23 28 | 17 20 | 4 48 | 21 5 | 2 24 | 18 47 | 1 57 | 24 30 | 3 40 | 13 4 | 1 7 | 18 25 | 1 51 | 20 14 | 0 35 | 22 16 | 0 48 | 16 6 | 7 10 | 1 4 | 1 6 | 3 9 | 14 33 | 6 32 |
| S 24 | 23 27 | 15 19 | 4 19 | 20 51 | 2 38 | 18 25 | 1 55 | 24 36 | 3 42 | 13 7 | 1 7 | 18 26 | 1 52 | 20 14 | 0 35 | 22 16 | 0 48 | 16 6 | 7 10 | 1 0 | 1 5 | 3 10 | 14 33 | 6 32 |
| S 25 | 23 26 | 12 24 | 3 35 | 20 39 | 2 50 | 18 2 | 1 54 | 24 42 | 3 45 | 13 10 | 1 7 | 18 27 | 1 52 | 20 13 | 0 35 | 22 16 | 0 48 | 16 6 | 7 10 | 0 57 | 1 4 | 3 12 | 14 32 | 6 32 |
| M26 | 23 24 | 8 46 | 2 38 | 20 28 | 2 59 | 17 39 | 1 52 | 24 48 | 3 47 | 13 13 | 1 7 | 18 29 | 1 52 | 20 12 | 0 35 | 22 15 | 0 48 | 16 6 | 7 10 | 0 54 | 1 2 | 3 14 | 14 31 | 6 32 |
| T 27 | 23 21 | 4 37 | 1 31 | 20 20 | 3 6 | 17 16 | 1 50 | 24 54 | 3 49 | 13 16 | 1 7 | 18 30 | 1 52 | 20 11 | 0 35 | 22 15 | 0 48 | 16 6 | 7 9 | 0 53 | 1 1 | 3 16 | 14 31 | 6 31 |
| W28 | 23 18 | 0 13 | 0 18 | 20 14 | 3 11 | 16 52 | 1 48 | 24 59 | 3 51 | 13 19 | 1 8 | 18 31 | 1 52 | 20 11 | 0 35 | 22 15 | 0 48 | 16 6 | 7 9 | 0 53 | 1 0 | 3 18 | 14 30 | 6 31 |
| T 29 | 23 15 | 4n13 | 0s56 | 20 10 | 3 13 | 16 28 | 1 46 | 25 5 | 3 53 | 13 22 | 1 8 | 18 32 | 1 52 | 20 10 | 0 35 | 22 15 | 0 48 | 16 6 | 7 9 | 0 53 | 0 59 | 3 20 | 14 29 | 6 31 |
| F 30 | 23 11 | 8 25 | 2 7 | 20 8 | 3 13 | 16 3 | 1 44 | 25 11 | 3 55 | 13 25 | 1 8 | 18 33 | 1 52 | 20 9 | 0 35 | 22 15 | 0 48 | 16 6 | 7 9 | 0 53 | 0 57 | 3 21 | 14 28 | 6 31 |
| S 31 | 23s 6 | 12n 9 | 3s10 | 20s 8 | 3n11 | 15s38 | 1s42 | 25n17 | 3n57 | 13s28 | 1n 8 | 18s35 | 1n52 | 20s 8 | 0s35 | 22s14 | 0n48 | 16n 6 | 7s 9 | 0s52 | 0s56 | 3s23 | 14s28 | 6n31 |

Julian Day Number = 2328062.5, Delta T = 35.08 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'17, Lahiri = 19°08'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## JANUARY 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 43 17 | 10♑57'05 | 25♉ 5 | 23°R15 | 23♒43 | 23°R21 | 9♏13 | 1♐ 8 | 2♒48 | 10♑54 | 21°R55 | 2°R 4 | 2♎17 | 10♎16 | 26♑45 | S 1 |
| M 2 | 6 47 13 | 11°58'14 | 9♊ 6 | 23♐ 6 | 24°54 | 22♋59 | 9°22 | 1°14 | 2°52 | 10°57 | 21♊54 | 1♎55 | 2°14 | 10°23 | 26°50 | M 2 |
| T 3 | 6 51 10 | 12°59'23 | 22°59 | 23°D 6 | 26° 4 | 22°35 | 9°31 | 1°20 | 2°55 | 10°59 | 21°53 | 1°44 | 2°11 | 10°30 | 26°55 | T 3 |
| W 4 | 6 55 6 | 14° 0'32 | 6♋40 | 23°14 | 27°14 | 22°12 | 9°39 | 1°26 | 2°58 | 11° 1 | 21°51 | 1°32 | 2° 8 | 10°36 | 27° 0 | W 4 |
| T 5 | 6 59 3 | 15° 1'40 | 20° 7 | 23°30 | 28°24 | 21°48 | 9°48 | 1°32 | 3° 2 | 11° 3 | 21°50 | 1°19 | 2° 5 | 10°43 | 27° 5 | T 5 |
| F 6 | 7 3 0 | 16° 2'48 | 3♌15 | 23°53 | 29°34 | 21°25 | 9°57 | 1°38 | 3° 5 | 11° 6 | 21°49 | 1° 7 | 2° 2 | 10°50 | 27°10 | F 6 |
| S 7 | 7 6 56 | 17° 3'55 | 16° 5 | 24°23 | 0♓44 | 21° 1 | 10° 5 | 1°44 | 3° 9 | 11° 8 | 21°48 | 0°57 | 1°58 | 10°56 | 27°15 | S 7 |
| S 8 | 7 10 53 | 18° 5'03 | 28°35 | 24°59 | 1°53 | 20°37 | 10°14 | 1°49 | 3°12 | 11°10 | 21°47 | 0°50 | 1°55 | 11° 3 | 27°20 | S 8 |
| M 9 | 7 14 49 | 19° 6'10 | 10♍49 | 25°40 | 3° 3 | 20°13 | 10°22 | 1°55 | 3°15 | 11°12 | 21°46 | 0°45 | 1°52 | 11°10 | 27°25 | M 9 |
| T 10 | 7 18 46 | 20° 7'16 | 22°50 | 26°26 | 4°12 | 19°49 | 10°30 | 2° 0 | 3°19 | 11°15 | 21°45 | 0°44 | 1°49 | 11°16 | 27°30 | T 10 |
| W11 | 7 22 42 | 21° 8'23 | 4♎41 | 27°16 | 5°21 | 19°25 | 10°38 | 2° 6 | 3°22 | 11°17 | 21°44 | 0°D43 | 1°46 | 11°23 | 27°35 | W11 |
| T 12 | 7 26 39 | 22° 9'29 | 16°29 | 28°10 | 6°30 | 19° 1 | 10°46 | 2°11 | 3°26 | 11°19 | 21°43 | 0°R44 | 1°42 | 11°29 | 27°40 | T 12 |
| F 13 | 7 30 35 | 23°10'35 | 28°18 | 29° 7 | 7°39 | 18°37 | 10°53 | 2°17 | 3°29 | 11°21 | 21°42 | 0°44 | 1°39 | 11°36 | 27°46 | F 13 |
| S 14 | 7 34 32 | 24°11'41 | 10♏15 | 0♑ 7 | 8°48 | 18°14 | 11° 1 | 2°22 | 3°33 | 11°24 | 21°41 | 0°42 | 1°36 | 11°43 | 27°51 | S 14 |
| S 15 | 7 38 29 | 25°12'46 | 22°23 | 1°11 | 9°56 | 17°50 | 11° 8 | 2°27 | 3°36 | 11°26 | 21°40 | 0°39 | 1°33 | 11°49 | 27°56 | S 15 |
| M16 | 7 42 25 | 26°13'51 | 4♐49 | 2°17 | 11° 4 | 17°27 | 11°16 | 2°32 | 3°40 | 11°28 | 21°39 | 0°32 | 1°30 | 11°56 | 28° 1 | M16 |
| T 17 | 7 46 22 | 27°14'56 | 17°35 | 3°25 | 12°13 | 17° 5 | 11°23 | 2°37 | 3°43 | 11°30 | 21°38 | 0°24 | 1°27 | 12° 3 | 28° 6 | T 17 |
| W18 | 7 50 18 | 28°16'00 | 0♑43 | 4°35 | 13°20 | 16°43 | 11°30 | 2°42 | 3°47 | 11°33 | 21°37 | 0°14 | 1°23 | 12° 9 | 28°11 | W18 |
| T 19 | 7 54 15 | 29°17'03 | 14°14 | 5°47 | 14°28 | 16°21 | 11°37 | 2°47 | 3°50 | 11°35 | 21°36 | 0° 3 | 1°20 | 12°16 | 28°16 | T 19 |
| F 20 | 7 58 11 | 0♒18'05 | 28° 4 | 7° 1 | 15°36 | 15°59 | 11°43 | 2°52 | 3°54 | 11°37 | 21°35 | 29♍52 | 1°17 | 12°23 | 28°21 | F 20 |
| S 21 | 8 2 8 | 1°19'07 | 12♒11 | 8°17 | 16°43 | 15°39 | 11°50 | 2°57 | 3°57 | 11°39 | 21°35 | 29°43 | 1°14 | 12°29 | 28°26 | S 21 |
| S 22 | 8 6 4 | 2°20'08 | 26°28 | 9°34 | 17°50 | 15°18 | 11°56 | 3° 2 | 4° 1 | 11°41 | 21°34 | 29°36 | 1°11 | 12°36 | 28°32 | S 22 |
| M23 | 8 10 1 | 3°21'07 | 10♓51 | 10°52 | 18°57 | 14°58 | 12° 3 | 3° 6 | 4° 4 | 11°43 | 21°33 | 29°32 | 1° 8 | 12°43 | 28°37 | M23 |
| T 24 | 8 13 58 | 4°22'06 | 25°14 | 12°12 | 20° 4 | 14°39 | 12° 9 | 3°11 | 4° 8 | 11°46 | 21°32 | 29°D31 | 1° 4 | 12°49 | 28°42 | T 24 |
| W25 | 8 17 54 | 5°23'03 | 9♈34 | 13°33 | 21°10 | 14°21 | 12°15 | 3°15 | 4°11 | 11°48 | 21°31 | 29°31 | 1° 1 | 12°56 | 28°47 | W25 |
| T 26 | 8 21 51 | 6°23'59 | 23°47 | 14°55 | 22°16 | 14° 3 | 12°21 | 3°20 | 4°15 | 11°50 | 21°30 | 29°32 | 0°58 | 13° 3 | 28°52 | T 26 |
| F 27 | 8 25 47 | 7°24'53 | 7♉52 | 16°18 | 23°22 | 13°46 | 12°26 | 3°24 | 4°18 | 11°52 | 21°30 | 29°R33 | 0°55 | 13° 9 | 28°57 | F 27 |
| S 28 | 8 29 44 | 8°25'46 | 21°48 | 17°42 | 24°28 | 13°29 | 12°32 | 3°28 | 4°22 | 11°54 | 21°29 | 29°32 | 0°52 | 13°16 | 29° 2 | S 28 |
| S 29 | 8 33 40 | 9°26'38 | 5♊35 | 19° 7 | 25°33 | 13°14 | 12°37 | 3°33 | 4°25 | 11°56 | 21°28 | 29°29 | 0°48 | 13°22 | 29° 7 | S 29 |
| M30 | 8 37 37 | 10°27'29 | 19°13 | 20°33 | 26°38 | 12°59 | 12°42 | 3°37 | 4°29 | 11°58 | 21°27 | 29°23 | 0°45 | 13°29 | 29°12 | M30 |
| T 31 | 8 41 33 | 11♒28'18 | 2♋39 | 22♑ 0 | 27♓43 | 12♋44 | 12♏47 | 3♐41 | 4♒32 | 12♑ 0 | 21♊27 | 29♍16 | 0♎42 | 13♎36 | 29♑17 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 2 | 15n10 | 4s 1 | 20s11 | 3n 8 | 15s12 | 1s40 | 25n23 | 3n59 | 13s31 | 1n 8 | 18s36 | 1n52 | 20s 8 | 0s35 | 22s14 | 0n48 | 16n 6 | 7s 9 | 0s49 | 0s55 | 3s25 | 14s27 | 6n31 |
| M 2 | 22 56 | 17 17 | 4 38 | 20 15 | 3 3 | 14 46 | 1 37 | 25 28 | 4 0 | 13 34 | 1 8 | 18 37 | 1 52 | 20 7 | 0 35 | 22 14 | 0 48 | 16 6 | 7 9 | 0 46 | 0 53 | 3 27 | 14 26 | 6 31 |
| T 3 | 22 51 | 18 21 | 4 57 | 20 21 | 2 58 | 14 20 | 1 35 | 25 34 | 4 2 | 13 36 | 1 8 | 18 38 | 1 52 | 20 6 | 0 35 | 22 14 | 0 48 | 16 6 | 7 9 | 0 42 | 0 52 | 3 29 | 14 25 | 6 30 |
| W 4 | 22 45 | 18 19 | 5 0 | 20 28 | 2 51 | 13 54 | 1 32 | 25 39 | 4 3 | 13 39 | 1 8 | 18 39 | 1 52 | 20 5 | 0 35 | 22 14 | 0 48 | 16 6 | 7 9 | 0 36 | 0 51 | 3 30 | 14 24 | 6 30 |
| T 5 | 22 38 | 17 16 | 4 45 | 20 36 | 2 43 | 13 27 | 1 29 | 25 44 | 4 5 | 13 42 | 1 9 | 18 40 | 1 52 | 20 5 | 0 35 | 22 14 | 0 48 | 16 6 | 7 9 | 0 31 | 0 50 | 3 32 | 14 24 | 6 30 |
| F 6 | 22 31 | 15 19 | 4 16 | 20 45 | 2 35 | 13 0 | 1 26 | 25 49 | 4 6 | 13 44 | 1 9 | 18 41 | 1 52 | 20 4 | 0 35 | 22 13 | 0 48 | 16 6 | 7 8 | 0 27 | 0 48 | 3 34 | 14 23 | 6 30 |
| S 7 | 22 23 | 12 39 | 3 34 | 20 55 | 2 27 | 12 32 | 1 23 | 25 54 | 4 7 | 13 47 | 1 9 | 18 42 | 1 52 | 20 3 | 0 35 | 22 13 | 0 48 | 16 6 | 7 8 | 0 23 | 0 47 | 3 36 | 14 22 | 6 30 |
| S 8 | 22 15 | 9 27 | 2 42 | 21 6 | 2 18 | 12 4 | 1 20 | 25 59 | 4 8 | 13 49 | 1 9 | 18 43 | 1 53 | 20 2 | 0 35 | 22 13 | 0 48 | 16 6 | 7 8 | 0 20 | 0 46 | 3 38 | 14 21 | 6 30 |
| M 9 | 22 7 | 5 55 | 1 44 | 21 16 | 2 8 | 11 36 | 1 17 | 26 4 | 4 9 | 13 52 | 1 9 | 18 44 | 1 53 | 20 1 | 0 35 | 22 13 | 0 48 | 16 6 | 7 8 | 0 18 | 0 45 | 3 39 | 14 20 | 6 30 |
| T 10 | 21 58 | 2 13 | 0 42 | 21 27 | 1 59 | 11 8 | 1 14 | 26 9 | 4 10 | 13 54 | 1 9 | 18 45 | 1 53 | 20 1 | 0 35 | 22 13 | 0 48 | 16 6 | 7 8 | 0 17 | 0 43 | 3 41 | 14 19 | 6 30 |
| W11 | 21 49 | 1s33 | 0n21 | 21 38 | 1 49 | 10 39 | 1 11 | 26 13 | 4 11 | 13 56 | 1 9 | 18 46 | 1 53 | 20 0 | 0 35 | 22 13 | 0 48 | 16 6 | 7 8 | 0 17 | 0 42 | 3 43 | 14 18 | 6 30 |
| T 12 | 21 39 | 5 13 | 1 23 | 21 48 | 1 40 | 10 11 | 1 7 | 26 17 | 4 12 | 13 59 | 1 10 | 18 47 | 1 53 | 19 59 | 0 35 | 22 12 | 0 48 | 16 6 | 7 8 | 0 17 | 0 41 | 3 45 | 14 17 | 6 30 |
| F 13 | 21 29 | 8 41 | 2 22 | 21 59 | 1 30 | 9 42 | 1 3 | 26 21 | 4 12 | 14 1 | 1 10 | 18 48 | 1 53 | 19 58 | 0 35 | 22 12 | 0 48 | 16 6 | 7 8 | 0 17 | 0 40 | 3 47 | 14 16 | 6 30 |
| S 14 | 21 19 | 11 50 | 3 15 | 22 8 | 1 20 | 9 13 | 1 0 | 26 25 | 4 13 | 14 3 | 1 10 | 18 49 | 1 53 | 19 57 | 0 35 | 22 12 | 0 48 | 16 7 | 7 7 | 0 17 | 0 38 | 3 48 | 14 15 | 6 30 |
| S 15 | 21 8 | 14 32 | 4 0 | 22 18 | 1 11 | 8 43 | 0 56 | 26 28 | 4 13 | 14 5 | 1 10 | 18 50 | 1 53 | 19 57 | 0 35 | 22 12 | 0 48 | 16 7 | 7 7 | 0 15 | 0 37 | 3 50 | 14 15 | 6 30 |
| M16 | 20 56 | 16 38 | 4 34 | 22 26 | 1 1 | 8 14 | 0 52 | 26 32 | 4 13 | 14 7 | 1 10 | 18 51 | 1 53 | 19 56 | 0 35 | 22 12 | 0 48 | 16 7 | 7 7 | 0 13 | 0 36 | 3 52 | 14 14 | 6 30 |
| T 17 | 20 45 | 17 59 | 4 57 | 22 34 | 0 52 | 7 44 | 0 48 | 26 35 | 4 14 | 14 9 | 1 10 | 18 52 | 1 53 | 19 55 | 0 35 | 22 11 | 0 48 | 16 7 | 7 7 | 0 10 | 0 34 | 3 54 | 14 13 | 6 30 |
| W18 | 20 33 | 18 25 | 5 4 | 22 41 | 0 43 | 7 14 | 0 44 | 26 38 | 4 14 | 14 11 | 1 10 | 18 53 | 1 53 | 19 54 | 0 35 | 22 11 | 0 48 | 16 7 | 7 7 | 0 5 | 0 33 | 3 56 | 14 12 | 6 30 |
| T 19 | 20 20 | 17 50 | 4 55 | 22 48 | 0 34 | 6 44 | 0 40 | 26 40 | 4 13 | 14 13 | 1 11 | 18 54 | 1 54 | 19 53 | 0 35 | 22 11 | 0 48 | 16 7 | 7 7 | 0 1 | 0 32 | 3 57 | 14 11 | 6 30 |
| F 20 | 20 7 | 16 12 | 4 29 | 22 53 | 0 25 | 6 14 | 0 35 | 26 43 | 4 13 | 14 15 | 1 11 | 18 55 | 1 54 | 19 52 | 0 35 | 22 11 | 0 48 | 16 7 | 7 7 | 0n 3 | 0 31 | 3 59 | 14 10 | 6 30 |
| S 21 | 19 54 | 13 34 | 3 45 | 22 57 | 0 16 | 5 44 | 0 31 | 26 45 | 4 13 | 14 17 | 1 11 | 18 55 | 1 54 | 19 52 | 0 35 | 22 11 | 0 48 | 16 7 | 7 6 | 0 7 | 0 29 | 4 1 | 14 9 | 6 30 |
| S 22 | 19 40 | 10 5 | 2 47 | 23 1 | 0 7 | 5 13 | 0 26 | 26 47 | 4 13 | 14 19 | 1 11 | 18 56 | 1 54 | 19 51 | 0 35 | 22 10 | 0 48 | 16 7 | 7 6 | 0 9 | 0 28 | 4 3 | 14 8 | 6 30 |
| M23 | 19 26 | 5 59 | 1 38 | 23 3 | 0s 1 | 4 43 | 0 22 | 26 49 | 4 12 | 14 21 | 1 11 | 18 57 | 1 54 | 19 50 | 0 35 | 22 10 | 0 48 | 16 7 | 7 6 | 0 11 | 0 27 | 4 5 | 14 7 | 6 30 |
| T 24 | 19 12 | 1 33 | 0 23 | 23 4 | 0 9 | 4 12 | 0 17 | 26 51 | 4 12 | 14 23 | 1 11 | 18 58 | 1 54 | 19 49 | 0 35 | 22 10 | 0 48 | 16 7 | 7 6 | 0 12 | 0 26 | 4 6 | 14 6 | 6 30 |
| W25 | 18 57 | 2n58 | 0s54 | 23 5 | 0 17 | 3 42 | 0 12 | 26 52 | 4 11 | 14 24 | 1 12 | 18 58 | 1 54 | 19 48 | 0 35 | 22 10 | 0 48 | 16 8 | 7 6 | 0 12 | 0 24 | 4 8 | 14 5 | 6 30 |
| T 26 | 18 42 | 7 17 | 2 7 | 23 4 | 0 25 | 3 11 | 0 7 | 26 53 | 4 10 | 14 26 | 1 12 | 18 59 | 1 54 | 19 48 | 0 35 | 22 10 | 0 48 | 16 8 | 7 6 | 0 11 | 0 23 | 4 10 | 14 3 | 6 30 |
| F 27 | 18 27 | 11 8 | 3 11 | 23 1 | 0 33 | 2 40 | 0 2 | 26 54 | 4 10 | 14 27 | 1 12 | 19 0 | 1 54 | 19 47 | 0 35 | 22 10 | 0 48 | 16 8 | 7 5 | 0 11 | 0 22 | 4 12 | 14 2 | 6 30 |
| S 28 | 18 11 | 14 19 | 4 4 | 22 58 | 0 40 | 2 10 | 0n 3 | 26 55 | 4 9 | 14 29 | 1 12 | 19 1 | 1 55 | 19 46 | 0 35 | 22 9 | 0 48 | 16 8 | 7 5 | 0 11 | 0 21 | 4 13 | 14 1 | 6 30 |
| S 29 | 17 55 | 16 39 | 4 42 | 22 53 | 0 47 | 1 39 | 0 8 | 26 56 | 4 8 | 14 30 | 1 12 | 19 1 | 1 55 | 19 45 | 0 35 | 22 9 | 0 48 | 16 8 | 7 5 | 0 12 | 0 19 | 4 15 | 14 0 | 6 30 |
| M30 | 17 39 | 18 1 | 5 3 | 22 48 | 0 54 | 1 8 | 0 13 | 26 56 | 4 7 | 14 32 | 1 12 | 19 2 | 1 55 | 19 44 | 0 35 | 22 9 | 0 48 | 16 8 | 7 5 | 0 15 | 0 18 | 4 17 | 13 59 | 6 30 |
| T 31 | 17s22 | 18n20 | 5s 7 | 22s40 | 1s 0 | 0s38 | 0n18 | 26n57 | 4n 6 | 14s33 | 1n13 | 19s 3 | 1n55 | 19s43 | 0s35 | 22s 9 | 0n48 | 16n 8 | 7s 5 | 0n17 | 0s17 | 4s19 | 13s58 | 6n30 |

Julian Day Number = 2328093.5, Delta T = 35.02 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'21, Lahiri = 19°08'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## FEBRUARY 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 45 30 | 12♒29'05 | 15♋54 | 23♑28 | 28♓48 | 12°R31 | 12♏52 | 3♐45 | 4♒36 | 12♑ 2 | 21°R26 | 29°R 8 | 0♎39 | 13♎42 | 29♑22 | W 1 |
| T 2 | 8 49 27 | 13°29'51 | 28°56 | 24°57 | 29°52 | 12♋18 | 12°57 | 3°49 | 4°39 | 12° 4 | 21♊25 | 28♍59 | 0°36 | 13°49 | 29°27 | T 2 |
| F 3 | 8 53 23 | 14°30'36 | 11♌45 | 26°27 | 0♈56 | 12° 6 | 13° 1 | 3°52 | 4°43 | 12° 6 | 21°25 | 28°52 | 0°33 | 13°56 | 29°32 | F 3 |
| S 4 | 8 57 20 | 15°31'19 | 24°19 | 27°57 | 1°59 | 11°55 | 13° 6 | 3°56 | 4°46 | 12° 8 | 21°24 | 28°45 | 0°29 | 14° 2 | 29°37 | S 4 |
| S 5 | 9 1 16 | 16°32'01 | 6♍39 | 29°29 | 3° 2 | 11°45 | 13°10 | 4° 0 | 4°50 | 12°10 | 21°23 | 28°41 | 0°26 | 14° 9 | 29°42 | S 5 |
| M 6 | 9 5 13 | 17°32'42 | 18°47 | 1♒ 1 | 4° 5 | 11°35 | 13°14 | 4° 3 | 4°53 | 12°12 | 21°23 | 28°38 | 0°23 | 14°16 | 29°47 | M 6 |
| T 7 | 9 9 9 | 18°33'22 | 0♎45 | 2°34 | 5° 8 | 11°26 | 13°18 | 4° 7 | 4°56 | 12°14 | 21°22 | 28°D38 | 0°20 | 14°22 | 29°52 | T 7 |
| W 8 | 9 13 6 | 19°34'00 | 12°35 | 4° 8 | 6°10 | 11°18 | 13°22 | 4°10 | 5° 0 | 12°16 | 21°22 | 28°38 | 0°17 | 14°29 | 29°57 | W 8 |
| T 9 | 9 17 2 | 20°34'37 | 24°23 | 5°43 | 7°12 | 11°11 | 13°25 | 4°13 | 5° 3 | 12°18 | 21°21 | 28°40 | 0°14 | 14°36 | 0♒ 2 | T 9 |
| F 10 | 9 20 59 | 21°35'13 | 6♏12 | 7°18 | 8°13 | 11° 5 | 13°28 | 4°17 | 5° 7 | 12°20 | 21°20 | 28°42 | 0°10 | 14°42 | 0° 6 | F 10 |
| S 11 | 9 24 56 | 22°35'48 | 18° 8 | 8°55 | 9°14 | 10°59 | 13°32 | 4°20 | 5°10 | 12°22 | 21°20 | 28°R43 | 0° 7 | 14°49 | 0°11 | S 11 |
| S 12 | 9 28 52 | 23°36'21 | 0♐15 | 10°32 | 10°14 | 10°54 | 13°35 | 4°23 | 5°13 | 12°23 | 21°19 | 28°43 | 0° 4 | 14°56 | 0°16 | S 12 |
| M13 | 9 32 49 | 24°36'53 | 12°39 | 12°11 | 11°14 | 10°50 | 13°37 | 4°26 | 5°17 | 12°25 | 21°19 | 28°41 | 0° 1 | 15° 2 | 0°21 | M13 |
| T 14 | 9 36 45 | 25°37'24 | 25°24 | 13°50 | 12°14 | 10°47 | 13°40 | 4°28 | 5°20 | 12°27 | 21°19 | 28°38 | 29♍58 | 15° 9 | 0°26 | T 14 |
| W15 | 9 40 42 | 26°37'54 | 8♑33 | 15°30 | 13°13 | 10°44 | 13°42 | 4°31 | 5°23 | 12°29 | 21°18 | 28°34 | 29°54 | 15°16 | 0°30 | W15 |
| T 16 | 9 44 38 | 27°38'22 | 22° 8 | 17°11 | 14°12 | 10°43 | 13°45 | 4°34 | 5°27 | 12°31 | 21°18 | 28°29 | 29°51 | 15°22 | 0°35 | T 16 |
| F 17 | 9 48 35 | 28°38'49 | 6♒ 8 | 18°53 | 15°10 | 10°42 | 13°47 | 4°36 | 5°30 | 12°32 | 21°17 | 28°24 | 29°48 | 15°29 | 0°40 | F 17 |
| S 18 | 9 52 31 | 29°39'14 | 20°30 | 20°36 | 16° 8 | 10°D42 | 13°49 | 4°39 | 5°33 | 12°34 | 21°17 | 28°20 | 29°45 | 15°35 | 0°44 | S 18 |
| S 19 | 9 56 28 | 0♓39'37 | 5♓ 9 | 22°20 | 17° 5 | 10°42 | 13°50 | 4°41 | 5°37 | 12°36 | 21°17 | 28°17 | 29°42 | 15°42 | 0°49 | S 19 |
| M20 | 10 0 25 | 1°39'59 | 19°57 | 24° 5 | 18° 2 | 10°43 | 13°52 | 4°43 | 5°40 | 12°37 | 21°16 | 28°15 | 29°39 | 15°49 | 0°53 | M20 |
| T 21 | 10 4 21 | 2°40'19 | 4♈47 | 25°51 | 18°58 | 10°45 | 13°53 | 4°46 | 5°43 | 12°39 | 21°16 | 28°D15 | 29°35 | 15°55 | 0°58 | T 21 |
| W22 | 10 8 18 | 3°40'36 | 19°32 | 27°38 | 19°53 | 10°48 | 13°54 | 4°48 | 5°46 | 12°41 | 21°16 | 28°16 | 29°32 | 16° 2 | 1° 2 | W22 |
| T 23 | 10 12 14 | 4°40'52 | 4♉ 6 | 29°26 | 20°48 | 10°52 | 13°55 | 4°50 | 5°50 | 12°42 | 21°16 | 28°18 | 29°29 | 16° 9 | 1° 7 | T 23 |
| F 24 | 10 16 11 | 5°41'06 | 18°25 | 1♓15 | 21°43 | 10°56 | 13°56 | 4°51 | 5°53 | 12°44 | 21°15 | 28°19 | 29°26 | 16°15 | 1°11 | F 24 |
| S 25 | 10 20 7 | 6°41'18 | 2♊26 | 3° 5 | 22°36 | 11° 1 | 13°56 | 4°53 | 5°56 | 12°45 | 21°15 | 28°R20 | 29°23 | 16°22 | 1°16 | S 25 |
| S 26 | 10 24 4 | 7°41'28 | 16°10 | 4°55 | 23°29 | 11° 6 | 13°57 | 4°55 | 5°59 | 12°47 | 21°15 | 28°20 | 29°19 | 16°29 | 1°20 | S 26 |
| M27 | 10 28 0 | 8°41'35 | 29°36 | 6°47 | 24°21 | 11°12 | 13°R57 | 4°57 | 6° 2 | 12°48 | 21°15 | 28°18 | 29°16 | 16°35 | 1°24 | M27 |
| T 28 | 10 31 57 | 9♓41'41 | 12♋45 | 8♓40 | 25♈13 | 11♋19 | 13♏57 | 4♐58 | 6♒ 5 | 12♑50 | 21♊15 | 28♍16 | 29♍13 | 16♎42 | 1♒29 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s 5 | 17n39 | 4s55 | 22s32 | 1s 7 | 0s 7 | 0n24 | 26n57 | 4n 5 | 14s34 | 1n13 | 19s 3 | 1n55 | 19s43 | 0s35 | 22s 9 | 0n48 | 16n 8 | 7s 5 | 0n21 | 0s16 | 4s21 | 13s57 | 6n30 |
| T 2 | 16 48 | 16 3 | 4 27 | 22 22 | 1 13 | 0n24 | 0 29 | 26 57 | 4 3 | 14 36 | 1 13 | 19 4 | 1 55 | 19 42 | 0 35 | 22 8 | 0 48 | 16 9 | 7 4 | 0 24 | 0 14 | 4 22 | 13 56 | 6 30 |
| F 3 | 16 30 | 13 40 | 3 46 | 22 11 | 1 19 | 0 54 | 0 35 | 26 57 | 4 2 | 14 37 | 1 13 | 19 4 | 1 55 | 19 41 | 0 35 | 22 8 | 0 48 | 16 9 | 7 4 | 0 27 | 0 13 | 4 24 | 13 55 | 6 31 |
| S 4 | 16 13 | 10 41 | 2 55 | 21 59 | 1 24 | 1 25 | 0 41 | 26 57 | 4 1 | 14 38 | 1 13 | 19 5 | 1 55 | 19 40 | 0 35 | 22 8 | 0 48 | 16 9 | 7 4 | 0 30 | 0 12 | 4 26 | 13 54 | 6 31 |
| S 5 | 15 54 | 7 17 | 1 57 | 21 45 | 1 29 | 1 55 | 0 46 | 26 56 | 4 0 | 14 39 | 1 13 | 19 5 | 1 56 | 19 39 | 0 35 | 22 8 | 0 48 | 16 9 | 7 4 | 0 32 | 0 10 | 4 28 | 13 53 | 6 31 |
| M 6 | 15 36 | 3 38 | 0 53 | 21 30 | 1 34 | 2 26 | 0 52 | 26 56 | 3 58 | 14 40 | 1 14 | 19 6 | 1 56 | 19 38 | 0 35 | 22 8 | 0 48 | 16 9 | 7 4 | 0 33 | 0 9 | 4 30 | 13 51 | 6 31 |
| T 7 | 15 17 | 0s 7 | 0n12 | 21 13 | 1 39 | 2 56 | 0 58 | 26 55 | 3 57 | 14 41 | 1 14 | 19 6 | 1 56 | 19 38 | 0 35 | 22 7 | 0 48 | 16 9 | 7 4 | 0 33 | 0 8 | 4 31 | 13 50 | 6 31 |
| W 8 | 14 59 | 3 49 | 1 15 | 20 56 | 1 43 | 3 26 | 1 4 | 26 55 | 3 55 | 14 42 | 1 14 | 19 7 | 1 56 | 19 37 | 0 35 | 22 7 | 0 48 | 16 9 | 7 3 | 0 32 | 0 7 | 4 33 | 13 49 | 6 31 |
| T 9 | 14 39 | 7 22 | 2 16 | 20 36 | 1 47 | 3 56 | 1 10 | 26 54 | 3 54 | 14 43 | 1 14 | 19 7 | 1 56 | 19 36 | 0 35 | 22 7 | 0 48 | 16 10 | 7 3 | 0 32 | 0 5 | 4 35 | 13 48 | 6 31 |
| F 10 | 14 20 | 10 36 | 3 11 | 20 16 | 1 51 | 4 26 | 1 16 | 26 53 | 3 52 | 14 44 | 1 14 | 19 8 | 1 56 | 19 35 | 0 35 | 22 7 | 0 48 | 16 10 | 7 3 | 0 31 | 0 4 | 4 37 | 13 47 | 6 31 |
| S 11 | 14 0 | 13 27 | 3 58 | 19 53 | 1 54 | 4 56 | 1 23 | 26 52 | 3 51 | 14 44 | 1 15 | 19 8 | 1 56 | 19 34 | 0 35 | 22 7 | 0 48 | 16 10 | 7 3 | 0 31 | 0 3 | 4 38 | 13 46 | 6 32 |
| S 12 | 13 40 | 15 45 | 4 35 | 19 30 | 1 57 | 5 25 | 1 29 | 26 51 | 3 49 | 14 45 | 1 15 | 19 9 | 1 57 | 19 34 | 0 35 | 22 7 | 0 48 | 16 10 | 7 3 | 0 31 | 0 2 | 4 40 | 13 45 | 6 32 |
| M13 | 13 20 | 17 23 | 5 1 | 19 5 | 1 59 | 5 55 | 1 35 | 26 49 | 3 48 | 14 46 | 1 15 | 19 9 | 1 57 | 19 33 | 0 35 | 22 6 | 0 48 | 16 10 | 7 2 | 0 31 | 0 0 | 4 42 | 13 43 | 6 32 |
| T 14 | 13 0 | 18 12 | 5 12 | 18 39 | 2 2 | 6 24 | 1 42 | 26 48 | 3 46 | 14 46 | 1 15 | 19 9 | 1 57 | 19 32 | 0 35 | 22 6 | 0 48 | 16 10 | 7 2 | 0 33 | 0n 1 | 4 44 | 13 42 | 6 32 |
| W15 | 12 40 | 18 5 | 5 8 | 18 11 | 2 4 | 6 53 | 1 48 | 26 47 | 3 45 | 14 47 | 1 15 | 19 10 | 1 57 | 19 31 | 0 35 | 22 6 | 0 48 | 16 11 | 7 2 | 0 34 | 0 2 | 4 46 | 13 41 | 6 32 |
| T 16 | 12 19 | 16 56 | 4 47 | 17 42 | 2 5 | 7 22 | 1 55 | 26 45 | 3 43 | 14 48 | 1 15 | 19 10 | 1 57 | 19 30 | 0 35 | 22 6 | 0 48 | 16 11 | 7 2 | 0 36 | 0 3 | 4 47 | 13 40 | 6 33 |
| F 17 | 11 58 | 14 46 | 4 8 | 17 11 | 2 6 | 7 51 | 2 1 | 26 43 | 3 41 | 14 48 | 1 16 | 19 10 | 1 57 | 19 30 | 0 35 | 22 6 | 0 48 | 16 11 | 7 2 | 0 38 | 0 5 | 4 49 | 13 39 | 6 33 |
| S 18 | 11 37 | 11 38 | 3 13 | 16 39 | 2 7 | 8 19 | 2 8 | 26 42 | 3 40 | 14 48 | 1 16 | 19 11 | 1 57 | 19 29 | 0 35 | 22 6 | 0 48 | 16 11 | 7 1 | 0 40 | 0 6 | 4 51 | 13 38 | 6 33 |
| S 19 | 11 15 | 7 43 | 2 4 | 16 6 | 2 7 | 8 48 | 2 15 | 26 40 | 3 38 | 14 49 | 1 16 | 19 11 | 1 58 | 19 28 | 0 35 | 22 5 | 0 48 | 16 11 | 7 1 | 0 41 | 0 7 | 4 53 | 13 37 | 6 33 |
| M20 | 10 54 | 3 17 | 0 46 | 15 31 | 2 7 | 9 16 | 2 21 | 26 38 | 3 36 | 14 49 | 1 16 | 19 11 | 1 58 | 19 27 | 0 35 | 22 5 | 0 48 | 16 11 | 7 1 | 0 42 | 0 9 | 4 54 | 13 35 | 6 33 |
| T 21 | 10 32 | 1n21 | 0s36 | 14 54 | 2 6 | 9 43 | 2 28 | 26 36 | 3 34 | 14 49 | 1 16 | 19 12 | 1 58 | 19 26 | 0 35 | 22 5 | 0 48 | 16 12 | 7 1 | 0 42 | 0 10 | 4 56 | 13 34 | 6 34 |
| W22 | 10 11 | 5 53 | 1 55 | 14 16 | 2 5 | 10 11 | 2 35 | 26 34 | 3 33 | 14 49 | 1 17 | 19 12 | 1 58 | 19 26 | 0 35 | 22 5 | 0 48 | 16 12 | 7 1 | 0 41 | 0 11 | 4 58 | 13 33 | 6 34 |
| T 23 | 9 49 | 10 0 | 3 5 | 13 37 | 2 3 | 10 38 | 2 42 | 26 32 | 3 31 | 14 49 | 1 17 | 19 12 | 1 58 | 19 25 | 0 35 | 22 5 | 0 48 | 16 12 | 7 0 | 0 41 | 0 12 | 5 0 | 13 32 | 6 34 |
| F 24 | 9 27 | 13 27 | 4 2 | 12 56 | 2 1 | 11 5 | 2 49 | 26 30 | 3 29 | 14 49 | 1 17 | 19 12 | 1 58 | 19 24 | 0 35 | 22 5 | 0 48 | 16 12 | 7 0 | 0 40 | 0 14 | 5 2 | 13 31 | 6 34 |
| S 25 | 9 4 | 16 2 | 4 44 | 12 14 | 1 59 | 11 32 | 2 56 | 26 28 | 3 28 | 14 49 | 1 17 | 19 12 | 1 58 | 19 23 | 0 35 | 22 4 | 0 48 | 16 12 | 7 0 | 0 40 | 0 15 | 5 3 | 13 29 | 6 35 |
| S 26 | 8 42 | 17 39 | 5 9 | 11 31 | 1 56 | 11 58 | 3 3 | 26 26 | 3 26 | 14 49 | 1 17 | 19 12 | 1 59 | 19 23 | 0 35 | 22 4 | 0 48 | 16 13 | 7 0 | 0 40 | 0 16 | 5 5 | 13 28 | 6 35 |
| M27 | 8 19 | 18 13 | 5 16 | 10 46 | 1 52 | 12 24 | 3 10 | 26 24 | 3 24 | 14 49 | 1 17 | 19 13 | 1 59 | 19 22 | 0 35 | 22 4 | 0 48 | 16 13 | 7 0 | 0 40 | 0 17 | 5 7 | 13 27 | 6 35 |
| T 28 | 7s57 | 17n48 | 5s 6 | 10s 0 | 1s48 | 12n49 | 3n17 | 26n22 | 3n22 | 14s49 | 1n18 | 19s13 | 1n59 | 19s21 | 0s35 | 22s 4 | 0n48 | 16n13 | 6s59 | 0n41 | 0n19 | 5s 9 | 13s26 | 6n35 |

Julian Day Number = 2328124.5, Delta T = 34.97 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'25, Lahiri = 19°08'26Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

## MARCH 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 35 53 | 10♓41'44 | 25♋40 | 10♓34 | 26♈ 4 | 11♋26 | 13°R57 | 4♐59 | 6♒ 8 | 12♑51 | 21°R15 | 28°R14 | 29♍10 | 16♎49 | 1♒33 | W 1 |
| T 2 | 10 39 50 | 11°41'45 | 8♌20 | 12°29 | 26°53 | 11°34 | 13♏56 | 5° 1 | 6°11 | 12°53 | 21♊15 | 28♍11 | 29° 7 | 16°55 | 1°37 | T 2 |
| F 3 | 10 43 47 | 12°41'44 | 20°48 | 14°25 | 27°43 | 11°43 | 13°56 | 5° 2 | 6°14 | 12°54 | 21°14 | 28° 9 | 29° 4 | 17° 2 | 1°41 | F 3 |
| S 4 | 10 47 43 | 13°41'41 | 3♍ 5 | 16°21 | 28°31 | 11°52 | 13°55 | 5° 3 | 6°17 | 12°55 | 21°14 | 28° 7 | 29° 0 | 17° 9 | 1°46 | S 4 |
| S 5 | 10 51 40 | 14°41'36 | 15°12 | 18°18 | 29°18 | 12° 2 | 13°54 | 5° 4 | 6°20 | 12°57 | 21°D14 | 28° 6 | 28°57 | 17°15 | 1°50 | S 5 |
| M 6 | 10 55 36 | 15°41'29 | 27°11 | 20°16 | 0♉ 5 | 12°13 | 13°53 | 5° 5 | 6°23 | 12°58 | 21°14 | 28°D 6 | 28°54 | 17°22 | 1°54 | M 6 |
| T 7 | 10 59 33 | 16°41'21 | 9♎ 4 | 22°14 | 0°50 | 12°24 | 13°52 | 5° 6 | 6°26 | 12°59 | 21°14 | 28° 6 | 28°51 | 17°29 | 1°58 | T 7 |
| W 8 | 11 3 29 | 17°41'10 | 20°53 | 24°12 | 1°35 | 12°35 | 13°50 | 5° 6 | 6°29 | 13° 0 | 21°14 | 28° 7 | 28°48 | 17°35 | 2° 2 | W 8 |
| T 9 | 11 7 26 | 18°40'57 | 2♏41 | 26°11 | 2°18 | 12°47 | 13°49 | 5° 7 | 6°32 | 13° 2 | 21°15 | 28° 7 | 28°45 | 17°42 | 2° 5 | T 9 |
| F 10 | 11 11 22 | 19°40'43 | 14°31 | 28° 9 | 3° 0 | 13° 0 | 13°47 | 5° 7 | 6°34 | 13° 3 | 21°15 | 28° 8 | 28°41 | 17°48 | 2° 9 | F 10 |
| S 11 | 11 15 19 | 20°40'27 | 26°28 | 0♈ 7 | 3°42 | 13°13 | 13°45 | 5° 8 | 6°37 | 13° 4 | 21°15 | 28° 9 | 28°38 | 17°55 | 2°13 | S 11 |
| S 12 | 11 19 16 | 21°40'09 | 8♐34 | 2° 4 | 4°22 | 13°26 | 13°42 | 5° 8 | 6°40 | 13° 5 | 21°15 | 28°10 | 28°35 | 18° 2 | 2°17 | S 12 |
| M13 | 11 23 12 | 22°39'50 | 20°56 | 4° 0 | 5° 1 | 13°40 | 13°40 | 5° 8 | 6°43 | 13° 6 | 21°15 | 28°R10 | 28°32 | 18° 8 | 2°21 | M13 |
| T 14 | 11 27 9 | 23°39'29 | 3♑37 | 5°54 | 5°39 | 13°55 | 13°37 | 5°R 8 | 6°45 | 13° 7 | 21°15 | 28°10 | 28°29 | 18°15 | 2°24 | T 14 |
| W15 | 11 31 5 | 24°39'06 | 16°40 | 7°47 | 6°15 | 14°10 | 13°35 | 5° 8 | 6°48 | 13° 8 | 21°15 | 28°10 | 28°25 | 18°22 | 2°28 | W15 |
| T 16 | 11 35 2 | 25°38'41 | 0♒ 9 | 9°37 | 6°50 | 14°25 | 13°32 | 5° 8 | 6°51 | 13° 9 | 21°16 | 28° 9 | 28°22 | 18°28 | 2°32 | T 16 |
| F 17 | 11 38 58 | 26°38'15 | 14° 6 | 11°25 | 7°24 | 14°41 | 13°28 | 5° 8 | 6°53 | 13°10 | 21°16 | 28° 9 | 28°19 | 18°35 | 2°35 | F 17 |
| S 18 | 11 42 55 | 27°37'46 | 28°28 | 13° 9 | 7°56 | 14°57 | 13°25 | 5° 7 | 6°56 | 13°11 | 21°16 | 28° 9 | 28°16 | 18°42 | 2°38 | S 18 |
| S 19 | 11 46 51 | 28°37'16 | 13♓12 | 14°50 | 8°27 | 15°14 | 13°22 | 5° 7 | 6°58 | 13°12 | 21°17 | 28°D 9 | 28°13 | 18°48 | 2°42 | S 19 |
| M20 | 11 50 48 | 29°36'44 | 28°13 | 16°27 | 8°56 | 15°31 | 13°18 | 5° 7 | 7° 1 | 13°13 | 21°17 | 28°R 9 | 28°10 | 18°55 | 2°45 | M20 |
| T 21 | 11 54 45 | 0♈36'09 | 13♈21 | 17°59 | 9°24 | 15°49 | 13°14 | 5° 6 | 7° 3 | 13°14 | 21°17 | 28° 9 | 28° 6 | 19° 2 | 2°49 | T 21 |
| W22 | 11 58 41 | 1°35'33 | 28°28 | 19°27 | 9°50 | 16° 7 | 13°10 | 5° 5 | 7° 5 | 13°14 | 21°18 | 28° 9 | 28° 3 | 19° 8 | 2°52 | W22 |
| T 23 | 12 2 38 | 2°34'54 | 13♉24 | 20°49 | 10°15 | 16°26 | 13° 6 | 5° 4 | 7° 8 | 13°15 | 21°18 | 28° 8 | 28° 0 | 19°15 | 2°55 | T 23 |
| F 24 | 12 6 34 | 3°34'13 | 28° 2 | 22° 6 | 10°37 | 16°44 | 13° 2 | 5° 3 | 7°10 | 13°16 | 21°18 | 28° 8 | 27°57 | 19°22 | 2°58 | F 24 |
| S 25 | 12 10 31 | 4°33'30 | 12♊18 | 23°17 | 10°58 | 17° 4 | 12°57 | 5° 2 | 7°12 | 13°17 | 21°19 | 28° 7 | 27°54 | 19°28 | 3° 1 | S 25 |
| S 26 | 12 14 27 | 5°32'45 | 26°10 | 24°21 | 11°16 | 17°23 | 12°53 | 5° 1 | 7°15 | 13°17 | 21°19 | 28° 7 | 27°50 | 19°35 | 3° 4 | S 26 |
| M27 | 12 18 24 | 6°31'57 | 9♋36 | 25°20 | 11°33 | 17°43 | 12°48 | 5° 0 | 7°17 | 13°18 | 21°20 | 28°D 7 | 27°47 | 19°42 | 3° 7 | M27 |
| T 28 | 12 22 20 | 7°31'06 | 22°40 | 26°11 | 11°48 | 18° 3 | 12°43 | 4°59 | 7°19 | 13°19 | 21°20 | 28° 7 | 27°44 | 19°48 | 3°10 | T 28 |
| W29 | 12 26 17 | 8°30'14 | 5♌24 | 26°56 | 12° 1 | 18°24 | 12°38 | 4°57 | 7°21 | 13°19 | 21°21 | 28° 8 | 27°41 | 19°55 | 3°13 | W29 |
| T 30 | 12 30 13 | 9°29'19 | 17°51 | 27°35 | 12°11 | 18°45 | 12°32 | 4°56 | 7°23 | 13°20 | 21°21 | 28° 9 | 27°38 | 20° 2 | 3°16 | T 30 |
| F 31 | 12 34 10 | 10♈28'22 | 0♍ 5 | 28♈ 6 | 12♉19 | 19♋ 6 | 12♏27 | 4♐54 | 7♒25 | 13♑20 | 21♊22 | 28♍10 | 27♍35 | 20♎ 8 | 3♒18 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat |
| W 1 | 7s34 | 16n27 | 4s41 | 9s13 | 1s43 | 13n15 | 3n24 | 26n19 | 3n21 | 14s49 | 1n18 | 19s13 | 1n59 | 19s20 | 0s35 | 22s 4 | 0n48 | 16n13 | 6s59 | 0n42 | 0n20 | 5s10 | 13s25 | 6n36 |
| T 2 | 7 11 | 14 19 | 4 2 | 8 24 | 1 38 | 13 40 | 3 31 | 26 17 | 3 19 | 14 49 | 1 18 | 19 13 | 1 59 | 19 20 | 0 35 | 22 4 | 0 48 | 16 13 | 6 59 | 0 43 | 0 21 | 5 12 | 13 24 | 6 36 |
| F 3 | 6 48 | 11 33 | 3 12 | 7 34 | 1 32 | 14 4 | 3 38 | 26 14 | 3 17 | 14 48 | 1 18 | 19 13 | 1 59 | 19 19 | 0 35 | 22 4 | 0 48 | 16 13 | 6 59 | 0 44 | 0 22 | 5 14 | 13 22 | 6 36 |
| S 4 | 6 25 | 8 18 | 2 14 | 6 43 | 1 26 | 14 28 | 3 45 | 26 12 | 3 16 | 14 48 | 1 18 | 19 13 | 2 0 | 19 18 | 0 35 | 22 3 | 0 48 | 16 14 | 6 59 | 0 45 | 0 24 | 5 16 | 13 21 | 6 37 |
| S 5 | 6 2 | 4 45 | 1 11 | 5 51 | 1 19 | 14 52 | 3 52 | 26 9 | 3 14 | 14 47 | 1 18 | 19 13 | 2 0 | 19 17 | 0 35 | 22 3 | 0 48 | 16 14 | 6 58 | 0 45 | 0 25 | 5 17 | 13 20 | 6 37 |
| M 6 | 5 39 | 1 3 | 0 5 | 4 57 | 1 11 | 15 15 | 3 59 | 26 7 | 3 12 | 14 47 | 1 19 | 19 13 | 2 0 | 19 17 | 0 35 | 22 3 | 0 48 | 16 14 | 6 58 | 0 46 | 0 26 | 5 19 | 13 19 | 6 37 |
| T 7 | 5 16 | 2s40 | 1n 1 | 4 3 | 1 3 | 15 38 | 4 7 | 26 4 | 3 11 | 14 46 | 1 19 | 19 13 | 2 0 | 19 16 | 0 35 | 22 3 | 0 48 | 16 14 | 6 58 | 0 45 | 0 28 | 5 21 | 13 18 | 6 38 |
| W 8 | 4 52 | 6 16 | 2 3 | 3 9 | 0 55 | 16 0 | 4 14 | 26 1 | 3 9 | 14 46 | 1 19 | 19 13 | 2 0 | 19 15 | 0 35 | 22 3 | 0 48 | 16 15 | 6 58 | 0 45 | 0 29 | 5 23 | 13 17 | 6 38 |
| T 9 | 4 29 | 9 36 | 3 1 | 2 13 | 0 46 | 16 22 | 4 21 | 25 58 | 3 7 | 14 45 | 1 19 | 19 13 | 2 0 | 19 15 | 0 35 | 22 3 | 0 48 | 16 15 | 6 58 | 0 45 | 0 30 | 5 25 | 13 15 | 6 38 |
| F 10 | 4 6 | 12 33 | 3 50 | 1 17 | 0 36 | 16 43 | 4 28 | 25 56 | 3 6 | 14 44 | 1 19 | 19 13 | 2 0 | 19 14 | 0 35 | 22 3 | 0 48 | 16 15 | 6 57 | 0 44 | 0 31 | 5 26 | 13 14 | 6 38 |
| S 11 | 3 42 | 15 0 | 4 31 | 0 21 | 0 26 | 17 4 | 4 35 | 25 53 | 3 4 | 14 44 | 1 19 | 19 13 | 2 1 | 19 13 | 0 35 | 22 2 | 0 48 | 16 15 | 6 57 | 0 44 | 0 33 | 5 28 | 13 13 | 6 39 |
| S 12 | 3 19 | 16 50 | 5 0 | 0n36 | 0 15 | 17 25 | 4 42 | 25 50 | 3 3 | 14 43 | 1 20 | 19 13 | 2 1 | 19 13 | 0 35 | 22 2 | 0 48 | 16 15 | 6 57 | 0 44 | 0 34 | 5 30 | 13 12 | 6 39 |
| M13 | 2 55 | 17 55 | 5 15 | 1 32 | 0 4 | 17 45 | 4 49 | 25 47 | 3 1 | 14 42 | 1 20 | 19 13 | 2 1 | 19 12 | 0 35 | 22 2 | 0 48 | 16 16 | 6 57 | 0 44 | 0 35 | 5 32 | 13 11 | 6 40 |
| T 14 | 2 31 | 18 9 | 5 17 | 2 28 | 0n 8 | 18 4 | 4 56 | 25 43 | 2 59 | 14 41 | 1 20 | 19 12 | 2 1 | 19 11 | 0 35 | 22 2 | 0 48 | 16 16 | 6 57 | 0 44 | 0 36 | 5 33 | 13 10 | 6 40 |
| W15 | 2 8 | 17 27 | 5 2 | 3 24 | 0 20 | 18 23 | 5 2 | 25 40 | 2 58 | 14 40 | 1 20 | 19 12 | 2 1 | 19 11 | 0 35 | 22 2 | 0 48 | 16 16 | 6 56 | 0 44 | 0 38 | 5 35 | 13 8 | 6 40 |
| T 16 | 1 44 | 15 45 | 4 30 | 4 18 | 0 32 | 18 41 | 5 9 | 25 37 | 2 56 | 14 39 | 1 20 | 19 12 | 2 1 | 19 10 | 0 36 | 22 2 | 0 48 | 16 16 | 6 56 | 0 44 | 0 39 | 5 37 | 13 7 | 6 41 |
| F 17 | 1 20 | 13 6 | 3 41 | 5 12 | 0 44 | 18 58 | 5 16 | 25 34 | 2 55 | 14 38 | 1 20 | 19 12 | 2 2 | 19 9 | 0 36 | 22 2 | 0 48 | 16 16 | 6 56 | 0 44 | 0 40 | 5 39 | 13 6 | 6 41 |
| S 18 | 0 57 | 9 34 | 2 38 | 6 4 | 0 57 | 19 15 | 5 23 | 25 30 | 2 53 | 14 37 | 1 20 | 19 12 | 2 2 | 19 9 | 0 36 | 22 2 | 0 48 | 16 17 | 6 56 | 0 44 | 0 41 | 5 40 | 13 5 | 6 41 |
| S 19 | 0 33 | 5 21 | 1 22 | 6 55 | 1 9 | 19 32 | 5 29 | 25 27 | 2 51 | 14 36 | 1 21 | 19 12 | 2 2 | 19 8 | 0 36 | 22 2 | 0 48 | 16 17 | 6 56 | 0 44 | 0 43 | 5 42 | 13 4 | 6 42 |
| M20 | 0 9 | 0 43 | 0s 0 | 7 44 | 1 22 | 19 47 | 5 35 | 25 23 | 2 50 | 14 34 | 1 21 | 19 11 | 2 2 | 19 8 | 0 36 | 22 1 | 0 48 | 16 17 | 6 55 | 0 44 | 0 44 | 5 44 | 13 3 | 6 42 |
| T 21 | 0n14 | 4n 0 | 1 24 | 8 31 | 1 34 | 20 2 | 5 42 | 25 20 | 2 48 | 14 33 | 1 21 | 19 11 | 2 2 | 19 7 | 0 36 | 22 1 | 0 48 | 16 17 | 6 55 | 0 44 | 0 45 | 5 46 | 13 2 | 6 43 |
| W22 | 0 38 | 8 26 | 2 41 | 9 15 | 1 46 | 20 17 | 5 48 | 25 16 | 2 47 | 14 32 | 1 21 | 19 11 | 2 2 | 19 6 | 0 36 | 22 1 | 0 48 | 16 18 | 6 55 | 0 44 | 0 47 | 5 47 | 13 1 | 6 43 |
| T 23 | 1 2 | 12 17 | 3 46 | 9 57 | 1 57 | 20 30 | 5 54 | 25 12 | 2 45 | 14 31 | 1 21 | 19 11 | 2 2 | 19 6 | 0 36 | 22 1 | 0 48 | 16 18 | 6 55 | 0 44 | 0 48 | 5 49 | 13 0 | 6 43 |
| F 24 | 1 25 | 15 17 | 4 35 | 10 36 | 2 8 | 20 43 | 6 0 | 25 8 | 2 44 | 14 29 | 1 21 | 19 10 | 2 2 | 19 5 | 0 36 | 22 1 | 0 48 | 16 18 | 6 55 | 0 45 | 0 49 | 5 51 | 12 58 | 6 44 |
| S 25 | 1 49 | 17 15 | 5 6 | 11 12 | 2 19 | 20 55 | 6 5 | 25 4 | 2 42 | 14 28 | 1 21 | 19 10 | 2 3 | 19 5 | 0 36 | 22 1 | 0 48 | 16 18 | 6 54 | 0 45 | 0 50 | 5 53 | 12 57 | 6 44 |
| S 26 | 2 12 | 18 8 | 5 18 | 11 46 | 2 29 | 21 6 | 6 11 | 25 1 | 2 41 | 14 26 | 1 21 | 19 10 | 2 3 | 19 4 | 0 36 | 22 1 | 0 48 | 16 18 | 6 54 | 0 45 | 0 52 | 5 54 | 12 56 | 6 45 |
| M27 | 2 36 | 17 57 | 5 11 | 12 16 | 2 38 | 21 16 | 6 16 | 24 56 | 2 40 | 14 25 | 1 22 | 19 9 | 2 3 | 19 4 | 0 36 | 22 1 | 0 48 | 16 19 | 6 54 | 0 45 | 0 53 | 5 56 | 12 55 | 6 45 |
| T 28 | 2 59 | 16 49 | 4 49 | 12 42 | 2 46 | 21 26 | 6 21 | 24 52 | 2 38 | 14 23 | 1 22 | 19 9 | 2 3 | 19 3 | 0 36 | 22 1 | 0 48 | 16 19 | 6 54 | 0 45 | 0 54 | 5 58 | 12 54 | 6 45 |
| W29 | 3 23 | 14 51 | 4 13 | 13 5 | 2 53 | 21 34 | 6 26 | 24 48 | 2 37 | 14 21 | 1 22 | 19 8 | 2 3 | 19 3 | 0 36 | 22 1 | 0 48 | 16 19 | 6 54 | 0 45 | 0 55 | 6 0 | 12 53 | 6 46 |
| T 30 | 3 46 | 12 14 | 3 26 | 13 25 | 3 0 | 21 42 | 6 30 | 24 44 | 2 35 | 14 20 | 1 22 | 19 8 | 2 3 | 19 2 | 0 36 | 22 1 | 0 48 | 16 19 | 6 53 | 0 44 | 0 57 | 6 1 | 12 52 | 6 46 |
| F 31 | 4n 9 | 9n 7 | 2s30 | 13n41 | 3n 5 | 21n48 | 6n34 | 24n39 | 2n34 | 14s18 | 1n22 | 19s 8 | 2n 3 | 19s 2 | 0s36 | 22s 1 | 0n48 | 16n20 | 6s53 | 0n44 | 0n58 | 6s 3 | 12s51 | 6n47 |

Julian Day Number = 2328152.5, Delta T = 34.91 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'29, Lahiri = 19°08'29Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## APRIL 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 38 7 | 11♈27'22 | 12♍ 9 | 28♈30 | 12♉25 | 19♋28 | 12°R22 | 4°R53 | 7♒27 | 13♑21 | 21♊22 | 28♍11 | 27♍31 | 20♎15 | 3♒21 | S 1 |
| S 2 | 12 42 3 | 12°26'21 | 24° 5 | 28°47 | 12°29 | 19°50 | 12♏16 | 4♐51 | 7°29 | 13°21 | 21°23 | 28°R12 | 27°28 | 20°22 | 3°24 | S 2 |
| M 3 | 12 46 0 | 13°25'17 | 5♎56 | 28°58 | 12°R30 | 20°12 | 12°10 | 4°49 | 7°31 | 13°21 | 21°24 | 28°11 | 27°25 | 20°28 | 3°26 | M 3 |
| T 4 | 12 49 56 | 14°24'11 | 17°45 | 29°R 2 | 12°29 | 20°34 | 12° 4 | 4°47 | 7°33 | 13°22 | 21°24 | 28°10 | 27°22 | 20°35 | 3°29 | T 4 |
| W 5 | 12 53 53 | 15°23'03 | 29°34 | 28°59 | 12°25 | 20°57 | 11°58 | 4°45 | 7°35 | 13°22 | 21°25 | 28° 9 | 27°19 | 20°41 | 3°31 | W 5 |
| T 6 | 12 57 49 | 16°21'53 | 11♏24 | 28°49 | 12°19 | 21°20 | 11°52 | 4°43 | 7°36 | 13°23 | 21°26 | 28° 6 | 27°16 | 20°48 | 3°33 | T 6 |
| F 7 | 13 1 46 | 17°20'42 | 23°19 | 28°34 | 12°10 | 21°44 | 11°46 | 4°41 | 7°38 | 13°23 | 21°26 | 28° 3 | 27°12 | 20°55 | 3°36 | F 7 |
| S 8 | 13 5 42 | 18°19'28 | 5♐20 | 28°14 | 11°59 | 22° 7 | 11°39 | 4°38 | 7°40 | 13°23 | 21°27 | 28° 0 | 27° 9 | 21° 1 | 3°38 | S 8 |
| S 9 | 13 9 39 | 19°18'13 | 17°30 | 27°48 | 11°46 | 22°31 | 11°33 | 4°36 | 7°41 | 13°23 | 21°28 | 27°57 | 27° 6 | 21° 8 | 3°40 | S 9 |
| M10 | 13 13 36 | 20°16'56 | 29°53 | 27°17 | 11°30 | 22°55 | 11°26 | 4°33 | 7°43 | 13°23 | 21°29 | 27°55 | 27° 3 | 21°15 | 3°42 | M10 |
| T 11 | 13 17 32 | 21°15'37 | 12♑32 | 26°43 | 11°12 | 23°20 | 11°20 | 4°31 | 7°45 | 13°24 | 21°29 | 27°53 | 27° 0 | 21°21 | 3°44 | T 11 |
| W12 | 13 21 29 | 22°14'17 | 25°31 | 26° 6 | 10°51 | 23°44 | 11°13 | 4°28 | 7°46 | 13°24 | 21°30 | 27°D53 | 26°56 | 21°28 | 3°46 | W12 |
| T 13 | 13 25 25 | 23°12'55 | 8♒52 | 25°26 | 10°28 | 24° 9 | 11° 6 | 4°26 | 7°48 | 13°24 | 21°31 | 27°54 | 26°53 | 21°35 | 3°48 | T 13 |
| F 14 | 13 29 22 | 24°11'31 | 22°37 | 24°45 | 10° 3 | 24°34 | 10°59 | 4°23 | 7°49 | 13°24 | 21°32 | 27°55 | 26°50 | 21°41 | 3°50 | F 14 |
| S 15 | 13 33 18 | 25°10'05 | 6♓49 | 24° 2 | 9°36 | 25° 0 | 10°52 | 4°20 | 7°50 | 13°R24 | 21°33 | 27°57 | 26°47 | 21°48 | 3°52 | S 15 |
| S 16 | 13 37 15 | 26° 8'38 | 21°25 | 23°20 | 9° 7 | 25°25 | 10°45 | 4°17 | 7°52 | 13°24 | 21°33 | 27°R58 | 26°44 | 21°55 | 3°53 | S 16 |
| M17 | 13 41 11 | 27° 7'09 | 6♈21 | 22°38 | 8°36 | 25°51 | 10°38 | 4°14 | 7°53 | 13°24 | 21°34 | 27°58 | 26°41 | 22° 1 | 3°55 | M17 |
| T 18 | 13 45 8 | 28° 5'39 | 21°31 | 21°58 | 8° 4 | 26°17 | 10°30 | 4°11 | 7°54 | 13°24 | 21°35 | 27°56 | 26°37 | 22° 8 | 3°57 | T 18 |
| W19 | 13 49 5 | 29° 4'06 | 6♉44 | 21°20 | 7°30 | 26°43 | 10°23 | 4° 8 | 7°55 | 13°24 | 21°36 | 27°53 | 26°34 | 22°15 | 3°58 | W19 |
| T 20 | 13 53 1 | 0♉ 2'32 | 21°52 | 20°44 | 6°55 | 27°10 | 10°16 | 4° 4 | 7°57 | 13°23 | 21°37 | 27°49 | 26°31 | 22°21 | 3°59 | T 20 |
| F 21 | 13 56 58 | 1° 0'55 | 6♊45 | 20°12 | 6°19 | 27°37 | 10° 8 | 4° 1 | 7°58 | 13°23 | 21°38 | 27°44 | 26°28 | 22°28 | 4° 1 | F 21 |
| S 22 | 14 0 54 | 1°59'17 | 21°15 | 19°43 | 5°42 | 28° 4 | 10° 1 | 3°58 | 7°59 | 13°23 | 21°39 | 27°39 | 26°25 | 22°35 | 4° 2 | S 22 |
| S 23 | 14 4 51 | 2°57'37 | 5♋18 | 19°19 | 5° 4 | 28°31 | 9°53 | 3°54 | 8° 0 | 13°23 | 21°40 | 27°36 | 26°22 | 22°41 | 4° 3 | S 23 |
| M24 | 14 8 47 | 3°55'54 | 18°52 | 18°59 | 4°27 | 28°58 | 9°46 | 3°51 | 8° 1 | 13°22 | 21°41 | 27°33 | 26°18 | 22°48 | 4° 4 | M24 |
| T 25 | 14 12 44 | 4°54'09 | 1♌58 | 18°43 | 3°49 | 29°25 | 9°38 | 3°47 | 8° 1 | 13°22 | 21°42 | 27°D32 | 26°15 | 22°55 | 4° 5 | T 25 |
| W26 | 14 16 40 | 5°52'23 | 14°41 | 18°32 | 3°11 | 29°53 | 9°30 | 3°44 | 8° 2 | 13°22 | 21°43 | 27°32 | 26°12 | 23° 1 | 4° 6 | W26 |
| T 27 | 14 20 37 | 6°50'34 | 27° 4 | 18°26 | 2°34 | 0♌21 | 9°23 | 3°40 | 8° 3 | 13°21 | 21°44 | 27°33 | 26° 9 | 23° 8 | 4° 7 | T 27 |
| F 28 | 14 24 34 | 7°48'43 | 9♍11 | 18°D24 | 1°57 | 0°49 | 9°15 | 3°36 | 8° 4 | 13°21 | 21°45 | 27°35 | 26° 6 | 23°15 | 4° 8 | F 28 |
| S 29 | 14 28 30 | 8°46'50 | 21° 8 | 18°28 | 1°22 | 1°17 | 9° 7 | 3°32 | 8° 5 | 13°21 | 21°46 | 27°36 | 26° 2 | 23°21 | 4° 9 | S 29 |
| S 30 | 14 32 27 | 9♉44'56 | 2♎58 | 18♈36 | 0♉47 | 1♌46 | 9♏ 0 | 3♐29 | 8♒ 5 | 13♑20 | 21♊47 | 27°R36 | 25♍59 | 23♎28 | 4♒10 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n32 | 5n40 | 1s28 | 13n54 | 3n 9 | 21n54 | 6n38 | 24n35 | 2n32 | 14s16 | 1n22 | 19s 7 | 2n 4 | 19s 1 | 0s36 | 22s 0 | 0n48 | 16n20 | 6s53 | 0n43 | 0n59 | 6s 5 | 12s50 | 6n47 |
| S 2 | 4 55 | 2 0 | 0 23 | 14 2 | 3 11 | 21 58 | 6 42 | 24 30 | 2 31 | 14 14 | 1 22 | 19 7 | 2 4 | 19 1 | 0 36 | 22 0 | 0 48 | 16 20 | 6 53 | 0 43 | 1 0 | 6 7 | 12 49 | 6 48 |
| M 3 | 5 18 | 1s42 | 0n43 | 14 7 | 3 13 | 22 2 | 6 45 | 24 26 | 2 30 | 14 13 | 1 22 | 19 6 | 2 4 | 19 0 | 0 36 | 22 0 | 0 48 | 16 20 | 6 53 | 0 43 | 1 2 | 6 8 | 12 48 | 6 48 |
| T 4 | 5 41 | 5 20 | 1 46 | 14 9 | 3 13 | 22 4 | 6 47 | 24 21 | 2 28 | 14 11 | 1 22 | 19 6 | 2 4 | 19 0 | 0 36 | 22 0 | 0 48 | 16 21 | 6 52 | 0 44 | 1 3 | 6 10 | 12 47 | 6 48 |
| W 5 | 6 4 | 8 46 | 2 45 | 14 6 | 3 11 | 22 5 | 6 49 | 24 16 | 2 27 | 14 9 | 1 22 | 19 5 | 2 4 | 18 59 | 0 36 | 22 0 | 0 48 | 16 21 | 6 52 | 0 44 | 1 4 | 6 12 | 12 46 | 6 49 |
| T 6 | 6 27 | 11 50 | 3 37 | 14 0 | 3 8 | 22 4 | 6 51 | 24 11 | 2 26 | 14 7 | 1 23 | 19 5 | 2 4 | 18 59 | 0 36 | 22 0 | 0 48 | 16 21 | 6 52 | 0 45 | 1 6 | 6 14 | 12 45 | 6 49 |
| F 7 | 6 49 | 14 27 | 4 19 | 13 50 | 3 3 | 22 3 | 6 52 | 24 6 | 2 24 | 14 5 | 1 23 | 19 4 | 2 4 | 18 59 | 0 36 | 22 0 | 0 48 | 16 21 | 6 52 | 0 47 | 1 7 | 6 15 | 12 44 | 6 50 |
| S 8 | 7 12 | 16 27 | 4 51 | 13 37 | 2 57 | 22 0 | 6 53 | 24 1 | 2 23 | 14 3 | 1 23 | 19 4 | 2 4 | 18 58 | 0 36 | 22 0 | 0 49 | 16 21 | 6 52 | 0 48 | 1 8 | 6 17 | 12 43 | 6 50 |
| S 9 | 7 34 | 17 45 | 5 10 | 13 21 | 2 50 | 21 56 | 6 53 | 23 56 | 2 22 | 14 1 | 1 23 | 19 3 | 2 4 | 18 58 | 0 36 | 22 0 | 0 49 | 16 22 | 6 51 | 0 49 | 1 9 | 6 19 | 12 42 | 6 51 |
| M10 | 7 56 | 18 14 | 5 15 | 13 2 | 2 41 | 21 50 | 6 53 | 23 50 | 2 20 | 13 59 | 1 23 | 19 3 | 2 5 | 18 57 | 0 36 | 22 0 | 0 49 | 16 22 | 6 51 | 0 50 | 1 11 | 6 20 | 12 41 | 6 51 |
| T 11 | 8 18 | 17 50 | 5 5 | 12 39 | 2 30 | 21 43 | 6 51 | 23 45 | 2 19 | 13 57 | 1 23 | 19 2 | 2 5 | 18 57 | 0 36 | 22 0 | 0 49 | 16 22 | 6 51 | 0 50 | 1 12 | 6 22 | 12 40 | 6 52 |
| W12 | 8 40 | 16 30 | 4 39 | 12 15 | 2 19 | 21 35 | 6 50 | 23 39 | 2 18 | 13 54 | 1 23 | 19 2 | 2 5 | 18 57 | 0 36 | 22 0 | 0 49 | 16 22 | 6 51 | 0 51 | 1 13 | 6 24 | 12 39 | 6 52 |
| T 13 | 9 2 | 14 14 | 3 58 | 11 48 | 2 6 | 21 25 | 6 47 | 23 34 | 2 17 | 13 52 | 1 23 | 19 1 | 2 5 | 18 56 | 0 36 | 22 0 | 0 49 | 16 23 | 6 51 | 0 50 | 1 14 | 6 26 | 12 39 | 6 53 |
| F 14 | 9 24 | 11 7 | 3 2 | 11 20 | 1 52 | 21 14 | 6 44 | 23 28 | 2 15 | 13 50 | 1 23 | 19 0 | 2 5 | 18 56 | 0 36 | 22 0 | 0 49 | 16 23 | 6 51 | 0 50 | 1 16 | 6 27 | 12 38 | 6 53 |
| S 15 | 9 45 | 7 16 | 1 54 | 10 50 | 1 37 | 21 1 | 6 40 | 23 22 | 2 14 | 13 48 | 1 23 | 19 0 | 2 5 | 18 56 | 0 36 | 22 0 | 0 49 | 16 23 | 6 50 | 0 49 | 1 17 | 6 29 | 12 37 | 6 54 |
| S 16 | 10 7 | 2 52 | 0 36 | 10 20 | 1 21 | 20 47 | 6 35 | 23 16 | 2 13 | 13 46 | 1 23 | 18 59 | 2 5 | 18 55 | 0 37 | 22 0 | 0 49 | 16 23 | 6 50 | 0 49 | 1 18 | 6 31 | 12 36 | 6 54 |
| M17 | 10 28 | 1n49 | 0s46 | 9 49 | 1 5 | 20 32 | 6 30 | 23 10 | 2 12 | 13 43 | 1 23 | 18 59 | 2 5 | 18 55 | 0 37 | 22 0 | 0 49 | 16 23 | 6 50 | 0 49 | 1 19 | 6 33 | 12 35 | 6 55 |
| T 18 | 10 49 | 6 27 | 2 6 | 9 19 | 0 48 | 20 15 | 6 23 | 23 4 | 2 11 | 13 41 | 1 23 | 18 58 | 2 5 | 18 55 | 0 37 | 22 0 | 0 49 | 16 24 | 6 50 | 0 49 | 1 21 | 6 34 | 12 34 | 6 55 |
| W19 | 11 10 | 10 41 | 3 17 | 8 49 | 0 31 | 19 57 | 6 16 | 22 58 | 2 9 | 13 39 | 1 23 | 18 57 | 2 5 | 18 54 | 0 37 | 22 0 | 0 49 | 16 24 | 6 50 | 0 51 | 1 22 | 6 36 | 12 34 | 6 56 |
| T 20 | 11 30 | 14 11 | 4 13 | 8 20 | 0 14 | 19 38 | 6 9 | 22 51 | 2 8 | 13 37 | 1 23 | 18 57 | 2 5 | 18 54 | 0 37 | 22 0 | 0 49 | 16 24 | 6 50 | 0 52 | 1 23 | 6 38 | 12 33 | 6 56 |
| F 21 | 11 51 | 16 41 | 4 52 | 7 52 | 0s 3 | 19 18 | 6 0 | 22 45 | 2 7 | 13 34 | 1 23 | 18 56 | 2 6 | 18 54 | 0 37 | 22 0 | 0 49 | 16 24 | 6 49 | 0 54 | 1 24 | 6 40 | 12 32 | 6 57 |
| S 22 | 12 11 | 18 2 | 5 10 | 7 26 | 0 20 | 18 57 | 5 51 | 22 38 | 2 6 | 13 32 | 1 23 | 18 55 | 2 6 | 18 54 | 0 37 | 22 0 | 0 49 | 16 25 | 6 49 | 0 56 | 1 26 | 6 41 | 12 31 | 6 57 |
| S 23 | 12 31 | 18 13 | 5 10 | 7 1 | 0 36 | 18 35 | 5 41 | 22 32 | 2 5 | 13 30 | 1 23 | 18 55 | 2 6 | 18 54 | 0 37 | 22 0 | 0 49 | 16 25 | 6 49 | 0 58 | 1 27 | 6 43 | 12 30 | 6 58 |
| M24 | 12 51 | 17 21 | 4 51 | 6 39 | 0 51 | 18 12 | 5 30 | 22 25 | 2 4 | 13 27 | 1 23 | 18 54 | 2 6 | 18 53 | 0 37 | 22 0 | 0 49 | 16 25 | 6 49 | 0 59 | 1 28 | 6 45 | 12 30 | 6 58 |
| T 25 | 13 11 | 15 34 | 4 18 | 6 19 | 1 7 | 17 48 | 5 19 | 22 18 | 2 2 | 13 25 | 1 23 | 18 53 | 2 6 | 18 53 | 0 37 | 22 0 | 0 49 | 16 25 | 6 49 | 0 59 | 1 30 | 6 46 | 12 29 | 6 59 |
| W26 | 13 30 | 13 4 | 3 33 | 6 2 | 1 21 | 17 24 | 5 7 | 22 11 | 2 1 | 13 22 | 1 23 | 18 52 | 2 6 | 18 53 | 0 37 | 22 0 | 0 49 | 16 25 | 6 49 | 0 59 | 1 31 | 6 48 | 12 28 | 6 59 |
| T 27 | 13 49 | 10 1 | 2 39 | 5 47 | 1 35 | 17 0 | 4 55 | 22 4 | 2 0 | 13 20 | 1 23 | 18 52 | 2 6 | 18 53 | 0 37 | 22 0 | 0 49 | 16 26 | 6 48 | 0 58 | 1 32 | 6 50 | 12 28 | 7 0 |
| F 28 | 14 8 | 6 37 | 1 39 | 5 34 | 1 48 | 16 35 | 4 42 | 21 57 | 1 59 | 13 18 | 1 23 | 18 51 | 2 6 | 18 53 | 0 37 | 22 0 | 0 49 | 16 26 | 6 48 | 0 58 | 1 33 | 6 52 | 12 27 | 7 0 |
| S 29 | 14 27 | 2 59 | 0 35 | 5 24 | 2 0 | 16 10 | 4 29 | 21 49 | 1 58 | 13 15 | 1 23 | 18 50 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 26 | 6 48 | 0 57 | 1 35 | 6 53 | 12 26 | 7 1 |
| S 30 | 14n46 | 0s44 | 0n29 | 5n17 | 2s11 | 15n45 | 4n16 | 21n42 | 1n57 | 13s13 | 1n23 | 18s49 | 2n 6 | 18s52 | 0s37 | 22s 0 | 0n49 | 16n26 | 6s48 | 0n57 | 1n36 | 6s55 | 12s26 | 7n 1 |

Julian Day Number = 2328183.5, Delta T = 34.86 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'33, Lahiri = 19°08'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## MAY 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 36 23 | 10♉42'59 | 14♎46 | 18♈49 | 0°R14 | 2♌14 | 8°R52 | 3°R25 | 8♒ 6 | 13°R20 | 21♊48 | 27°R35 | 25♍56 | 23♎35 | 4♒10 | M 1 |
| T 2 | 14 40 20 | 11°41'01 | 26°34 | 19° 6 | 29♈42 | 2°43 | 8♏44 | 3♐21 | 8° 6 | 13♑19 | 21°50 | 27♍31 | 25°53 | 23°41 | 4°11 | T 2 |
| W 3 | 14 44 16 | 12°39'01 | 8♏25 | 19°28 | 29°12 | 3°12 | 8°37 | 3°17 | 8° 7 | 13°19 | 21°51 | 27°25 | 25°50 | 23°48 | 4°11 | W 3 |
| T 4 | 14 48 13 | 13°36'59 | 20°21 | 19°55 | 28°44 | 3°41 | 8°29 | 3°13 | 8° 7 | 13°18 | 21°52 | 27°18 | 25°47 | 23°55 | 4°12 | T 4 |
| F 5 | 14 52 9 | 14°34'56 | 2♐23 | 20°25 | 28°18 | 4°10 | 8°22 | 3° 9 | 8° 8 | 13°17 | 21°53 | 27° 9 | 25°43 | 24° 1 | 4°12 | F 5 |
| S 6 | 14 56 6 | 15°32'52 | 14°34 | 20°59 | 27°54 | 4°39 | 8°14 | 3° 5 | 8° 8 | 13°17 | 21°54 | 27° 0 | 25°40 | 24° 8 | 4°12 | S 6 |
| S 7 | 15 0 2 | 16°30'46 | 26°54 | 21°38 | 27°32 | 5° 9 | 8° 7 | 3° 1 | 8° 8 | 13°16 | 21°55 | 26°52 | 25°37 | 24°15 | 4°13 | S 7 |
| M 8 | 15 3 59 | 17°28'38 | 9♑26 | 22°20 | 27°12 | 5°39 | 7°59 | 2°56 | 8° 9 | 13°15 | 21°57 | 26°45 | 25°34 | 24°21 | 4°13 | M 8 |
| T 9 | 15 7 56 | 18°26'30 | 22°10 | 23° 6 | 26°55 | 6° 8 | 7°52 | 2°52 | 8° 9 | 13°15 | 21°58 | 26°40 | 25°31 | 24°28 | 4°R13 | T 9 |
| W10 | 15 11 52 | 19°24'20 | 5♒10 | 23°55 | 26°40 | 6°38 | 7°44 | 2°48 | 8° 9 | 13°14 | 21°59 | 26°37 | 25°27 | 24°35 | 4°13 | W10 |
| T 11 | 15 15 49 | 20°22'09 | 18°27 | 24°48 | 26°28 | 7° 8 | 7°37 | 2°44 | 8° 9 | 13°13 | 22° 0 | 26°D36 | 25°24 | 24°41 | 4°13 | T 11 |
| F 12 | 15 19 45 | 21°19'56 | 2♓ 5 | 25°44 | 26°18 | 7°39 | 7°30 | 2°39 | 8° 9 | 13°12 | 22° 2 | 26°36 | 25°21 | 24°48 | 4°13 | F 12 |
| S 13 | 15 23 42 | 22°17'43 | 16° 4 | 26°43 | 26°10 | 8° 9 | 7°22 | 2°35 | 8°R 9 | 13°11 | 22° 3 | 26°37 | 25°18 | 24°55 | 4°12 | S 13 |
| S 14 | 15 27 38 | 23°15'28 | 0♈25 | 27°45 | 26° 5 | 8°39 | 7°15 | 2°31 | 8° 9 | 13°11 | 22° 4 | 26°R37 | 25°15 | 25° 1 | 4°12 | S 14 |
| M15 | 15 31 35 | 24°13'13 | 15° 5 | 28°51 | 26° 3 | 9°10 | 7° 8 | 2°26 | 8° 9 | 13°10 | 22° 5 | 26°36 | 25°12 | 25° 8 | 4°12 | M15 |
| T 16 | 15 35 31 | 25°10'56 | 0♉ 2 | 29°59 | 26°D 2 | 9°41 | 7° 1 | 2°22 | 8° 9 | 13° 9 | 22° 7 | 26°32 | 25° 8 | 25°15 | 4°11 | T 16 |
| W17 | 15 39 28 | 26° 8'38 | 15° 6 | 1♉10 | 26° 4 | 10°12 | 6°54 | 2°18 | 8° 9 | 13° 8 | 22° 8 | 26°26 | 25° 5 | 25°21 | 4°11 | W17 |
| T 18 | 15 43 25 | 27° 6'19 | 0♊ 9 | 2°24 | 26° 9 | 10°43 | 6°47 | 2°13 | 8° 8 | 13° 7 | 22° 9 | 26°18 | 25° 2 | 25°28 | 4°10 | T 18 |
| F 19 | 15 47 21 | 28° 3'58 | 15° 2 | 3°40 | 26°15 | 11°14 | 6°41 | 2° 9 | 8° 8 | 13° 6 | 22°11 | 26° 9 | 24°59 | 25°35 | 4°10 | F 19 |
| S 20 | 15 51 18 | 29° 1'37 | 29°35 | 4°59 | 26°24 | 11°45 | 6°34 | 2° 4 | 8° 8 | 13° 5 | 22°12 | 26° 0 | 24°56 | 25°41 | 4° 9 | S 20 |
| S 21 | 15 55 14 | 29°59'13 | 13♋44 | 6°21 | 26°35 | 12°17 | 6°28 | 2° 0 | 8° 7 | 13° 4 | 22°13 | 25°51 | 24°53 | 25°48 | 4° 8 | S 21 |
| M22 | 15 59 11 | 0♊56'49 | 27°23 | 7°45 | 26°48 | 12°48 | 6°21 | 1°55 | 8° 7 | 13° 3 | 22°15 | 25°45 | 24°49 | 25°55 | 4° 7 | M22 |
| T 23 | 16 3 7 | 1°54'23 | 10♌34 | 9°12 | 27° 3 | 13°20 | 6°15 | 1°51 | 8° 6 | 13° 2 | 22°16 | 25°41 | 24°46 | 26° 1 | 4° 6 | T 23 |
| W24 | 16 7 4 | 2°51'56 | 23°20 | 10°42 | 27°19 | 13°51 | 6° 9 | 1°46 | 8° 6 | 13° 0 | 22°17 | 25°39 | 24°43 | 26° 8 | 4° 5 | W24 |
| T 25 | 16 11 0 | 3°49'27 | 5♍43 | 12°13 | 27°38 | 14°23 | 6° 2 | 1°42 | 8° 5 | 12°59 | 22°19 | 25°D38 | 24°40 | 26°15 | 4° 4 | T 25 |
| F 26 | 16 14 57 | 4°46'57 | 17°50 | 13°48 | 27°59 | 14°55 | 5°57 | 1°38 | 8° 5 | 12°58 | 22°20 | 25°39 | 24°37 | 26°21 | 4° 3 | F 26 |
| S 27 | 16 18 54 | 5°44'25 | 29°46 | 15°25 | 28°21 | 15°27 | 5°51 | 1°33 | 8° 4 | 12°57 | 22°21 | 25°R39 | 24°33 | 26°28 | 4° 2 | S 27 |
| S 28 | 16 22 50 | 6°41'52 | 11♎35 | 17° 4 | 28°45 | 15°59 | 5°45 | 1°29 | 8° 3 | 12°56 | 22°23 | 25°37 | 24°30 | 26°35 | 4° 1 | S 28 |
| M29 | 16 26 47 | 7°39'18 | 23°22 | 18°46 | 29°10 | 16°32 | 5°39 | 1°24 | 8° 2 | 12°54 | 22°24 | 25°34 | 24°27 | 26°41 | 4° 0 | M29 |
| T 30 | 16 30 43 | 8°36'43 | 5♏12 | 20°30 | 29°38 | 17° 4 | 5°34 | 1°20 | 8° 2 | 12°53 | 22°26 | 25°28 | 24°24 | 26°48 | 3°58 | T 30 |
| W31 | 16 34 40 | 9♊34'07 | 17♏ 8 | 22♉17 | 0♉ 6 | 17♌37 | 5♏29 | 1♐16 | 8♒ 1 | 12♑52 | 22♊27 | 25♍20 | 24♍21 | 26♎55 | 3♒57 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 15n 4 | 4s25 | 1n32 | 5n12 | 2s21 | 15n21 | 4n 2 | 21n34 | 1n56 | 13s11 | 1n22 | 18s49 | 2n 6 | 18s52 | 0s37 | 22s 0 | 0n49 | 16n27 | 6s48 | 0n58 | 1n37 | 6s57 | 12s25 | 7n 2 |
| T 2 | 15 22 | 7 55 | 2 30 | 5 10 | 2 31 | 14 56 | 3 48 | 21 27 | 1 55 | 13 8 | 1 22 | 18 48 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 27 | 6 48 | 0 59 | 1 38 | 6 59 | 12 24 | 7 2 |
| W 3 | 15 40 | 11 8 | 3 23 | 5 11 | 2 39 | 14 32 | 3 34 | 21 19 | 1 54 | 13 6 | 1 22 | 18 47 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 27 | 6 47 | 1 2 | 1 40 | 7 0 | 12 24 | 7 3 |
| T 4 | 15 57 | 13 54 | 4 6 | 5 13 | 2 47 | 14 9 | 3 19 | 21 11 | 1 52 | 13 4 | 1 22 | 18 46 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 27 | 6 47 | 1 5 | 1 41 | 7 2 | 12 23 | 7 3 |
| F 5 | 16 14 | 16 6 | 4 39 | 5 19 | 2 54 | 13 46 | 3 5 | 21 3 | 1 51 | 13 1 | 1 22 | 18 45 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 27 | 6 47 | 1 8 | 1 42 | 7 4 | 12 23 | 7 4 |
| S 6 | 16 31 | 17 37 | 5 0 | 5 26 | 2 59 | 13 24 | 2 50 | 20 55 | 1 50 | 12 59 | 1 22 | 18 45 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 28 | 6 47 | 1 12 | 1 43 | 7 5 | 12 22 | 7 4 |
| S 7 | 16 48 | 18 20 | 5 7 | 5 36 | 3 5 | 13 2 | 2 36 | 20 47 | 1 49 | 12 57 | 1 22 | 18 44 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 28 | 6 47 | 1 15 | 1 45 | 7 7 | 12 21 | 7 5 |
| M 8 | 17 5 | 18 10 | 5 0 | 5 47 | 3 9 | 12 42 | 2 22 | 20 39 | 1 48 | 12 54 | 1 22 | 18 43 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 28 | 6 47 | 1 18 | 1 46 | 7 9 | 12 21 | 7 5 |
| T 9 | 17 21 | 17 5 | 4 38 | 6 1 | 3 12 | 12 23 | 2 8 | 20 30 | 1 47 | 12 52 | 1 22 | 18 42 | 2 6 | 18 52 | 0 37 | 22 0 | 0 49 | 16 28 | 6 47 | 1 20 | 1 47 | 7 11 | 12 20 | 7 6 |
| W10 | 17 37 | 15 7 | 4 1 | 6 17 | 3 15 | 12 4 | 1 54 | 20 22 | 1 46 | 12 50 | 1 22 | 18 41 | 2 6 | 18 52 | 0 37 | 22 1 | 0 49 | 16 28 | 6 47 | 1 21 | 1 48 | 7 12 | 12 20 | 7 6 |
| T 11 | 17 52 | 12 18 | 3 10 | 6 34 | 3 17 | 11 47 | 1 40 | 20 13 | 1 45 | 12 47 | 1 21 | 18 41 | 2 6 | 18 52 | 0 37 | 22 1 | 0 49 | 16 29 | 6 46 | 1 21 | 1 50 | 7 14 | 12 19 | 7 7 |
| F 12 | 18 8 | 8 46 | 2 8 | 6 53 | 3 18 | 11 31 | 1 26 | 20 4 | 1 44 | 12 45 | 1 21 | 18 40 | 2 6 | 18 52 | 0 37 | 22 1 | 0 49 | 16 29 | 6 46 | 1 21 | 1 51 | 7 16 | 12 19 | 7 7 |
| S 13 | 18 22 | 4 38 | 0 56 | 7 14 | 3 18 | 11 16 | 1 13 | 19 55 | 1 43 | 12 43 | 1 21 | 18 39 | 2 6 | 18 52 | 0 37 | 22 1 | 0 49 | 16 29 | 6 46 | 1 21 | 1 52 | 7 17 | 12 19 | 7 7 |
| S 14 | 18 37 | 0 9 | 0s20 | 7 37 | 3 18 | 11 2 | 1 0 | 19 46 | 1 42 | 12 41 | 1 21 | 18 38 | 2 6 | 18 52 | 0 38 | 22 1 | 0 49 | 16 29 | 6 46 | 1 21 | 1 54 | 7 19 | 12 18 | 7 8 |
| M15 | 18 52 | 4n27 | 1 37 | 8 1 | 3 17 | 10 49 | 0 48 | 19 37 | 1 41 | 12 39 | 1 21 | 18 37 | 2 6 | 18 52 | 0 38 | 22 1 | 0 49 | 16 29 | 6 46 | 1 21 | 1 55 | 7 21 | 12 18 | 7 8 |
| T 16 | 19 6 | 8 52 | 2 49 | 8 26 | 3 15 | 10 37 | 0 35 | 19 28 | 1 40 | 12 37 | 1 21 | 18 37 | 2 6 | 18 52 | 0 38 | 22 1 | 0 49 | 16 30 | 6 46 | 1 23 | 1 56 | 7 22 | 12 17 | 7 9 |
| W17 | 19 19 | 12 44 | 3 49 | 8 53 | 3 13 | 10 27 | 0 23 | 19 19 | 1 39 | 12 34 | 1 21 | 18 36 | 2 6 | 18 52 | 0 38 | 22 1 | 0 49 | 16 30 | 6 46 | 1 25 | 1 57 | 7 24 | 12 17 | 7 9 |
| T 18 | 19 33 | 15 46 | 4 34 | 9 21 | 3 10 | 10 18 | 0 12 | 19 9 | 1 38 | 12 32 | 1 20 | 18 35 | 2 6 | 18 52 | 0 38 | 22 1 | 0 49 | 16 30 | 6 46 | 1 28 | 1 59 | 7 26 | 12 17 | 7 10 |
| F 19 | 19 46 | 17 41 | 4 59 | 9 51 | 3 6 | 10 9 | 0 0 | 19 0 | 1 37 | 12 30 | 1 20 | 18 34 | 2 6 | 18 52 | 0 38 | 22 1 | 0 49 | 16 30 | 6 45 | 1 32 | 2 0 | 7 28 | 12 16 | 7 10 |
| S 20 | 19 59 | 18 25 | 5 4 | 10 21 | 3 2 | 10 2 | 0s11 | 18 50 | 1 36 | 12 28 | 1 20 | 18 33 | 2 6 | 18 52 | 0 38 | 22 1 | 0 49 | 16 30 | 6 45 | 1 36 | 2 1 | 7 29 | 12 16 | 7 11 |
| S 21 | 20 11 | 17 58 | 4 50 | 10 53 | 2 57 | 9 56 | 0 21 | 18 40 | 1 35 | 12 26 | 1 20 | 18 32 | 2 6 | 18 53 | 0 38 | 22 1 | 0 49 | 16 31 | 6 45 | 1 39 | 2 2 | 7 31 | 12 16 | 7 11 |
| M22 | 20 23 | 16 28 | 4 20 | 11 25 | 2 51 | 9 52 | 0 31 | 18 30 | 1 34 | 12 24 | 1 20 | 18 32 | 2 6 | 18 53 | 0 38 | 22 1 | 0 49 | 16 31 | 6 45 | 1 42 | 2 4 | 7 33 | 12 16 | 7 12 |
| T 23 | 20 35 | 14 9 | 3 36 | 11 58 | 2 45 | 9 48 | 0 41 | 18 20 | 1 34 | 12 22 | 1 20 | 18 31 | 2 6 | 18 53 | 0 38 | 22 2 | 0 49 | 16 31 | 6 45 | 1 43 | 2 5 | 7 34 | 12 15 | 7 12 |
| W24 | 20 46 | 11 11 | 2 43 | 12 33 | 2 39 | 9 45 | 0 51 | 18 10 | 1 33 | 12 21 | 1 19 | 18 30 | 2 6 | 18 53 | 0 38 | 22 2 | 0 49 | 16 31 | 6 45 | 1 44 | 2 6 | 7 36 | 12 15 | 7 13 |
| T 25 | 20 57 | 7 49 | 1 44 | 13 7 | 2 32 | 9 43 | 1 0 | 18 0 | 1 32 | 12 19 | 1 19 | 18 29 | 2 6 | 18 53 | 0 38 | 22 2 | 0 49 | 16 31 | 6 45 | 1 44 | 2 7 | 7 38 | 12 15 | 7 13 |
| F 26 | 21 8 | 4 11 | 0 42 | 13 43 | 2 24 | 9 42 | 1 9 | 17 50 | 1 31 | 12 17 | 1 19 | 18 28 | 2 6 | 18 53 | 0 38 | 22 2 | 0 49 | 16 31 | 6 45 | 1 44 | 2 9 | 7 40 | 12 15 | 7 14 |
| S 27 | 21 18 | 0 26 | 0n22 | 14 19 | 2 16 | 9 42 | 1 17 | 17 40 | 1 30 | 12 15 | 1 19 | 18 27 | 2 6 | 18 54 | 0 38 | 22 2 | 0 49 | 16 32 | 6 45 | 1 44 | 2 10 | 7 41 | 12 14 | 7 14 |
| S 28 | 21 28 | 3s18 | 1 24 | 14 55 | 2 8 | 9 43 | 1 25 | 17 29 | 1 29 | 12 14 | 1 19 | 18 27 | 2 6 | 18 54 | 0 38 | 22 2 | 0 49 | 16 32 | 6 45 | 1 45 | 2 11 | 7 43 | 12 14 | 7 15 |
| M29 | 21 37 | 6 54 | 2 22 | 15 32 | 1 59 | 9 45 | 1 33 | 17 18 | 1 28 | 12 12 | 1 18 | 18 26 | 2 5 | 18 54 | 0 38 | 22 2 | 0 49 | 16 32 | 6 44 | 1 46 | 2 12 | 7 45 | 12 14 | 7 15 |
| T 30 | 21 47 | 10 14 | 3 14 | 16 9 | 1 49 | 9 48 | 1 40 | 17 8 | 1 27 | 12 10 | 1 18 | 18 25 | 2 5 | 18 54 | 0 38 | 22 2 | 0 49 | 16 32 | 6 44 | 1 48 | 2 14 | 7 46 | 12 14 | 7 15 |
| W31 | 21n55 | 13s11 | 3n58 | 16n46 | 1s40 | 9n51 | 1s48 | 16n57 | 1n26 | 12s 9 | 1n18 | 18s24 | 2n 5 | 18s55 | 0s38 | 22s 2 | 0n49 | 16n32 | 6s44 | 1n51 | 2n15 | 7s48 | 12s14 | 7n16 |

Julian Day Number = 2328213.5, Delta T = 34.80 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'37, Lahiri = 19°08'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## JUNE 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 38 36 | 10♊31'30 | 29♏12 | 24♉ 6 | 0♉37 | 18♌ 9 | 5°R23 | 1°R11 | 8°R 0 | 12°R51 | 22♊28 | 25°R 9 | 24♍18 | 27♎ 1 | 3°R55 | T 1 |
| F 2 | 16 42 33 | 11°28'52 | 11♐26 | 25°57 | 1° 8 | 18°42 | 5♏18 | 1♐ 7 | 7♒59 | 12♑49 | 22°30 | 24♍57 | 24°14 | 27° 8 | 3♒54 | F 2 |
| S 3 | 16 46 29 | 12°26'13 | 23°50 | 27°51 | 1°41 | 19°15 | 5°14 | 1° 2 | 7°58 | 12°48 | 22°31 | 24°44 | 24°11 | 27°15 | 3°52 | S 3 |
| S 4 | 16 50 26 | 13°23'33 | 6♑26 | 29°47 | 2°15 | 19°48 | 5° 9 | 0°58 | 7°57 | 12°47 | 22°33 | 24°32 | 24° 8 | 27°21 | 3°50 | S 4 |
| M 5 | 16 54 23 | 14°20'53 | 19°12 | 1♊46 | 2°51 | 20°21 | 5° 4 | 0°54 | 7°56 | 12°45 | 22°34 | 24°21 | 24° 5 | 27°28 | 3°49 | M 5 |
| T 6 | 16 58 19 | 15°18'12 | 2♒11 | 3°46 | 3°28 | 20°54 | 5° 0 | 0°50 | 7°55 | 12°44 | 22°35 | 24°13 | 24° 2 | 27°35 | 3°47 | T 6 |
| W 7 | 17 2 16 | 16°15'31 | 15°21 | 5°49 | 4° 6 | 21°27 | 4°56 | 0°45 | 7°54 | 12°43 | 22°37 | 24° 8 | 23°59 | 27°41 | 3°45 | W 7 |
| T 8 | 17 6 12 | 17°12'49 | 28°44 | 7°53 | 4°45 | 22° 0 | 4°51 | 0°41 | 7°52 | 12°41 | 22°38 | 24° 5 | 23°55 | 27°48 | 3°43 | T 8 |
| F 9 | 17 10 9 | 18°10'06 | 12♓22 | 9°59 | 5°25 | 22°33 | 4°47 | 0°37 | 7°51 | 12°40 | 22°40 | 24° 4 | 23°52 | 27°55 | 3°41 | F 9 |
| S 10 | 17 14 5 | 19° 7'23 | 26°15 | 12° 7 | 6° 6 | 23° 7 | 4°44 | 0°33 | 7°50 | 12°38 | 22°41 | 24° 4 | 23°49 | 28° 1 | 3°39 | S 10 |
| S 11 | 17 18 2 | 20° 4'40 | 10♈24 | 14°16 | 6°48 | 23°40 | 4°40 | 0°29 | 7°49 | 12°37 | 22°43 | 24° 3 | 23°46 | 28° 8 | 3°37 | S 11 |
| M12 | 17 21 58 | 21° 1'57 | 24°47 | 16°26 | 7°32 | 24°14 | 4°37 | 0°25 | 7°47 | 12°35 | 22°44 | 24° 1 | 23°43 | 28°15 | 3°35 | M12 |
| T 13 | 17 25 55 | 21°59'14 | 9♉23 | 18°37 | 8°16 | 24°48 | 4°33 | 0°21 | 7°46 | 12°34 | 22°45 | 23°57 | 23°39 | 28°21 | 3°33 | T 13 |
| W14 | 17 29 52 | 22°56'30 | 24° 7 | 20°48 | 9° 1 | 25°22 | 4°30 | 0°17 | 7°44 | 12°32 | 22°47 | 23°49 | 23°36 | 28°28 | 3°30 | W14 |
| T 15 | 17 33 48 | 23°53'46 | 8♊52 | 23° 0 | 9°46 | 25°56 | 4°27 | 0°13 | 7°43 | 12°31 | 22°48 | 23°40 | 23°33 | 28°35 | 3°28 | T 15 |
| F 16 | 17 37 45 | 24°51'01 | 23°29 | 25°11 | 10°33 | 26°30 | 4°24 | 0° 9 | 7°41 | 12°29 | 22°50 | 23°29 | 23°30 | 28°41 | 3°26 | F 16 |
| S 17 | 17 41 41 | 25°48'17 | 7♋52 | 27°23 | 11°21 | 27° 4 | 4°22 | 0° 6 | 7°40 | 12°28 | 22°51 | 23°17 | 23°27 | 28°48 | 3°23 | S 17 |
| S 18 | 17 45 38 | 26°45'31 | 21°54 | 29°33 | 12° 9 | 27°38 | 4°19 | 0° 2 | 7°38 | 12°26 | 22°53 | 23° 7 | 23°24 | 28°55 | 3°21 | S 18 |
| M19 | 17 49 34 | 27°42'46 | 5♌31 | 1♋43 | 12°58 | 28°12 | 4°17 | 29♏58 | 7°37 | 12°25 | 22°54 | 22°58 | 23°20 | 29° 1 | 3°18 | M19 |
| T 20 | 17 53 31 | 28°39'59 | 18°42 | 3°53 | 13°47 | 28°46 | 4°15 | 29°54 | 7°35 | 12°23 | 22°55 | 22°52 | 23°17 | 29° 8 | 3°16 | T 20 |
| W21 | 17 57 28 | 29°37'12 | 1♍28 | 6° 0 | 14°37 | 29°21 | 4°13 | 29°51 | 7°33 | 12°22 | 22°57 | 22°49 | 23°14 | 29°15 | 3°13 | W21 |
| T 22 | 18 1 24 | 0♋34'25 | 13°54 | 8° 7 | 15°28 | 29°55 | 4°11 | 29°47 | 7°31 | 12°20 | 22°58 | 22°48 | 23°11 | 29°21 | 3°10 | T 22 |
| F 23 | 18 5 21 | 1°31'37 | 26° 2 | 10°12 | 16°20 | 0♍30 | 4°10 | 29°44 | 7°30 | 12°18 | 23° 0 | 22°48 | 23° 8 | 29°28 | 3° 8 | F 23 |
| S 24 | 18 9 17 | 2°28'49 | 7♎58 | 12°15 | 17°12 | 1° 5 | 4° 9 | 29°41 | 7°28 | 12°17 | 23° 1 | 22°47 | 23° 5 | 29°35 | 3° 5 | S 24 |
| S 25 | 18 13 14 | 3°26'00 | 19°49 | 14°16 | 18° 5 | 1°39 | 4° 7 | 29°37 | 7°26 | 12°15 | 23° 2 | 22°46 | 23° 1 | 29°41 | 3° 2 | S 25 |
| M26 | 18 17 10 | 4°23'11 | 1♏38 | 16°16 | 18°58 | 2°14 | 4° 6 | 29°34 | 7°24 | 12°14 | 23° 4 | 22°44 | 22°58 | 29°48 | 2°59 | M26 |
| T 27 | 18 21 7 | 5°20'22 | 13°31 | 18°14 | 19°52 | 2°49 | 4° 6 | 29°31 | 7°22 | 12°12 | 23° 5 | 22°38 | 22°55 | 29°55 | 2°57 | T 27 |
| W28 | 18 25 3 | 6°17'32 | 25°32 | 20°10 | 20°46 | 3°24 | 4° 5 | 29°28 | 7°20 | 12°10 | 23° 7 | 22°31 | 22°52 | 0♏ 1 | 2°54 | W28 |
| T 29 | 18 29 0 | 7°14'42 | 7♐44 | 22° 4 | 21°41 | 3°59 | 4° 5 | 29°25 | 7°18 | 12° 9 | 23° 8 | 22°21 | 22°49 | 0° 8 | 2°51 | T 29 |
| F 30 | 18 32 57 | 8♋11'52 | 20♐10 | 23♋55 | 22♉36 | 4♍34 | 4♏ 4 | 29♏22 | 7♒17 | 12♑ 7 | 23♊ 9 | 22♍ 9 | 22♍45 | 0♏15 | 2♒48 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 4 | 15s36 | 4n31 | 17n23 | 1s30 | 9n55 | 1s54 | 16n46 | 1n25 | 12s 7 | 1n18 | 18s23 | 2n 5 | 18s55 | 0s38 | 22s 3 | 0n49 | 16n32 | 6s44 | 1n56 | 2n16 | 7s50 | 12s14 | 7n16 |
| F 2 | 22 12 | 17 21 | 4 53 | 17 59 | 1 19 | 10 0 | 2 1 | 16 35 | 1 24 | 12 6 | 1 17 | 18 23 | 2 5 | 18 55 | 0 38 | 22 3 | 0 49 | 16 32 | 6 44 | 2 1 | 2 17 | 7 51 | 12 14 | 7 17 |
| S 3 | 22 20 | 18 20 | 5 1 | 18 36 | 1 9 | 10 6 | 2 7 | 16 24 | 1 23 | 12 4 | 1 17 | 18 22 | 2 5 | 18 55 | 0 38 | 22 3 | 0 49 | 16 33 | 6 44 | 2 6 | 2 19 | 7 53 | 12 14 | 7 17 |
| S 4 | 22 27 | 18 25 | 4 55 | 19 12 | 0 58 | 10 12 | 2 13 | 16 13 | 1 23 | 12 3 | 1 17 | 18 21 | 2 5 | 18 56 | 0 38 | 22 3 | 0 49 | 16 33 | 6 44 | 2 11 | 2 20 | 7 55 | 12 14 | 7 18 |
| M 5 | 22 34 | 17 35 | 4 33 | 19 47 | 0 47 | 10 19 | 2 18 | 16 1 | 1 22 | 12 2 | 1 17 | 18 20 | 2 5 | 18 56 | 0 38 | 22 3 | 0 49 | 16 33 | 6 44 | 2 15 | 2 21 | 7 56 | 12 14 | 7 18 |
| T 6 | 22 40 | 15 50 | 3 58 | 20 21 | 0 36 | 10 26 | 2 24 | 15 50 | 1 21 | 12 0 | 1 16 | 18 20 | 2 5 | 18 56 | 0 38 | 22 3 | 0 49 | 16 33 | 6 44 | 2 18 | 2 23 | 7 58 | 12 14 | 7 18 |
| W 7 | 22 46 | 13 14 | 3 10 | 20 54 | 0 25 | 10 34 | 2 29 | 15 38 | 1 20 | 11 59 | 1 16 | 18 19 | 2 5 | 18 57 | 0 38 | 22 3 | 0 49 | 16 33 | 6 44 | 2 20 | 2 24 | 8 0 | 12 14 | 7 19 |
| T 8 | 22 52 | 9 54 | 2 10 | 21 26 | 0 14 | 10 43 | 2 33 | 15 27 | 1 19 | 11 58 | 1 16 | 18 18 | 2 4 | 18 57 | 0 38 | 22 3 | 0 49 | 16 33 | 6 44 | 2 21 | 2 25 | 8 2 | 12 14 | 7 19 |
| F 9 | 22 57 | 5 59 | 1 2 | 21 56 | 0 3 | 10 52 | 2 38 | 15 15 | 1 18 | 11 57 | 1 16 | 18 17 | 2 4 | 18 57 | 0 38 | 22 4 | 0 49 | 16 33 | 6 44 | 2 22 | 2 26 | 8 3 | 12 14 | 7 20 |
| S 10 | 23 2 | 1 40 | 0s12 | 22 25 | 0n 8 | 11 2 | 2 42 | 15 3 | 1 17 | 11 56 | 1 16 | 18 17 | 2 4 | 18 58 | 0 38 | 22 4 | 0 49 | 16 34 | 6 44 | 2 22 | 2 28 | 8 5 | 12 14 | 7 20 |
| S 11 | 23 7 | 2n49 | 1 25 | 22 51 | 0 18 | 11 12 | 2 46 | 14 51 | 1 17 | 11 55 | 1 15 | 18 16 | 2 4 | 18 58 | 0 38 | 22 4 | 0 49 | 16 34 | 6 44 | 2 22 | 2 29 | 8 7 | 12 14 | 7 20 |
| M12 | 23 11 | 7 13 | 2 35 | 23 16 | 0 29 | 11 22 | 2 50 | 14 39 | 1 16 | 11 54 | 1 15 | 18 15 | 2 4 | 18 58 | 0 39 | 22 4 | 0 49 | 16 34 | 6 44 | 2 23 | 2 30 | 8 8 | 12 14 | 7 21 |
| T 13 | 23 14 | 11 15 | 3 35 | 23 38 | 0 39 | 11 33 | 2 53 | 14 27 | 1 15 | 11 53 | 1 15 | 18 14 | 2 4 | 18 59 | 0 39 | 22 4 | 0 49 | 16 34 | 6 43 | 2 24 | 2 31 | 8 10 | 12 14 | 7 21 |
| W14 | 23 18 | 14 36 | 4 22 | 23 58 | 0 48 | 11 44 | 2 56 | 14 15 | 1 14 | 11 52 | 1 15 | 18 14 | 2 4 | 18 59 | 0 39 | 22 4 | 0 49 | 16 34 | 6 43 | 2 27 | 2 33 | 8 12 | 12 15 | 7 21 |
| T 15 | 23 20 | 17 2 | 4 51 | 24 15 | 0 57 | 11 56 | 2 59 | 14 3 | 1 13 | 11 52 | 1 14 | 18 13 | 2 3 | 19 0 | 0 39 | 22 4 | 0 49 | 16 34 | 6 43 | 2 31 | 2 34 | 8 13 | 12 15 | 7 22 |
| F 16 | 23 23 | 18 19 | 5 1 | 24 29 | 1 6 | 12 8 | 3 2 | 13 50 | 1 12 | 11 51 | 1 14 | 18 12 | 2 3 | 19 0 | 0 39 | 22 5 | 0 49 | 16 34 | 6 43 | 2 36 | 2 35 | 8 15 | 12 15 | 7 22 |
| S 17 | 23 25 | 18 24 | 4 51 | 24 41 | 1 14 | 12 20 | 3 5 | 13 38 | 1 11 | 11 50 | 1 14 | 18 12 | 2 3 | 19 0 | 0 39 | 22 5 | 0 49 | 16 34 | 6 43 | 2 40 | 2 36 | 8 17 | 12 15 | 7 22 |
| S 18 | 23 26 | 17 21 | 4 24 | 24 50 | 1 21 | 12 32 | 3 7 | 13 25 | 1 11 | 11 50 | 1 13 | 18 11 | 2 3 | 19 1 | 0 39 | 22 5 | 0 49 | 16 35 | 6 43 | 2 44 | 2 38 | 8 18 | 12 15 | 7 23 |
| M19 | 23 28 | 15 20 | 3 43 | 24 56 | 1 27 | 12 45 | 3 9 | 13 13 | 1 10 | 11 49 | 1 13 | 18 11 | 2 3 | 19 1 | 0 39 | 22 5 | 0 49 | 16 35 | 6 43 | 2 48 | 2 39 | 8 20 | 12 16 | 7 23 |
| T 20 | 23 28 | 12 33 | 2 50 | 24 59 | 1 33 | 12 58 | 3 11 | 13 0 | 1 9 | 11 49 | 1 13 | 18 10 | 2 3 | 19 2 | 0 39 | 22 5 | 0 49 | 16 35 | 6 43 | 2 50 | 2 40 | 8 22 | 12 16 | 7 23 |
| W21 | 23 29 | 9 15 | 1 50 | 24 59 | 1 38 | 13 11 | 3 13 | 12 47 | 1 8 | 11 48 | 1 13 | 18 9 | 2 3 | 19 2 | 0 39 | 22 5 | 0 49 | 16 35 | 6 43 | 2 51 | 2 41 | 8 23 | 12 16 | 7 24 |
| T 22 | 23 29 | 5 37 | 0 47 | 24 57 | 1 43 | 13 24 | 3 14 | 12 34 | 1 7 | 11 48 | 1 12 | 18 9 | 2 2 | 19 3 | 0 39 | 22 5 | 0 49 | 16 35 | 6 43 | 2 52 | 2 43 | 8 25 | 12 16 | 7 24 |
| F 23 | 23 28 | 1 51 | 0n17 | 24 52 | 1 47 | 13 38 | 3 15 | 12 21 | 1 7 | 11 48 | 1 12 | 18 8 | 2 2 | 19 3 | 0 39 | 22 6 | 0 49 | 16 35 | 6 43 | 2 52 | 2 44 | 8 27 | 12 17 | 7 24 |
| S 24 | 23 27 | 1s57 | 1 20 | 24 44 | 1 50 | 13 51 | 3 17 | 12 8 | 1 6 | 11 48 | 1 12 | 18 8 | 2 2 | 19 4 | 0 39 | 22 6 | 0 49 | 16 35 | 6 43 | 2 52 | 2 45 | 8 28 | 12 17 | 7 25 |
| S 25 | 23 26 | 5 38 | 2 18 | 24 34 | 1 52 | 14 5 | 3 18 | 11 55 | 1 5 | 11 48 | 1 12 | 18 7 | 2 2 | 19 4 | 0 39 | 22 6 | 0 49 | 16 35 | 6 43 | 2 52 | 2 46 | 8 30 | 12 17 | 7 25 |
| M26 | 23 24 | 9 5 | 3 11 | 24 22 | 1 53 | 14 19 | 3 18 | 11 42 | 1 4 | 11 47 | 1 11 | 18 7 | 2 2 | 19 5 | 0 39 | 22 6 | 0 49 | 16 35 | 6 43 | 2 53 | 2 48 | 8 32 | 12 18 | 7 25 |
| T 27 | 23 22 | 12 11 | 3 55 | 24 7 | 1 54 | 14 32 | 3 19 | 11 28 | 1 3 | 11 47 | 1 11 | 18 6 | 2 1 | 19 5 | 0 39 | 22 6 | 0 49 | 16 35 | 6 43 | 2 56 | 2 49 | 8 33 | 12 18 | 7 25 |
| W28 | 23 20 | 14 49 | 4 29 | 23 51 | 1 54 | 14 46 | 3 19 | 11 15 | 1 3 | 11 47 | 1 11 | 18 6 | 2 1 | 19 6 | 0 39 | 22 6 | 0 49 | 16 36 | 6 43 | 2 59 | 2 50 | 8 35 | 12 19 | 7 26 |
| T 29 | 23 17 | 16 50 | 4 52 | 23 32 | 1 53 | 15 0 | 3 20 | 11 1 | 1 2 | 11 48 | 1 11 | 18 5 | 2 1 | 19 6 | 0 39 | 22 6 | 0 49 | 16 36 | 6 43 | 3 3 | 2 51 | 8 37 | 12 19 | 7 26 |
| F 30 | 23n14 | 18s 6 | 5n 1 | 23n12 | 1n52 | 15n14 | 3s20 | 10n48 | 1n 1 | 11s48 | 1n10 | 18s 5 | 2n 1 | 19s 7 | 0s39 | 22s 7 | 0n49 | 16n36 | 6s43 | 3n 7 | 2n53 | 8s38 | 12s19 | 7n26 |

Julian Day Number = 2328244.5, Delta T = 34.74 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'42, Lahiri = 19°08'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## JULY 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 36 53 | 9♋ 9'02 | 2♉49 | 25♋45 | 23♉32 | 5♍ 9 | 4°D 4 | 29°R19 | 7°R15 | 12°R 6 | 23♊11 | 21°R57 | 22♍42 | 0♏21 | 2°R45 | S 1 |
| S 2 | 18 40 50 | 10° 6'12 | 15°42 | 27°33 | 24°28 | 5°45 | 4♏ 4 | 29♏16 | 7♒12 | 12♉ 4 | 23°12 | 21♍45 | 22°39 | 0°28 | 2♒42 | S 2 |
| M 3 | 18 44 46 | 11° 3'23 | 28°49 | 29°19 | 25°25 | 6°20 | 4° 5 | 29°13 | 7°10 | 12° 2 | 23°14 | 21°35 | 22°36 | 0°35 | 2°39 | M 3 |
| T 4 | 18 48 43 | 12° 0'33 | 12♒ 8 | 1♌ 3 | 26°22 | 6°55 | 4° 5 | 29°11 | 7° 8 | 12° 1 | 23°15 | 21°28 | 22°33 | 0°41 | 2°36 | T 4 |
| W 5 | 18 52 39 | 12°57'44 | 25°38 | 2°45 | 27°20 | 7°31 | 4° 6 | 29° 8 | 7° 6 | 11°59 | 23°16 | 21°23 | 22°30 | 0°48 | 2°33 | W 5 |
| T 6 | 18 56 36 | 13°54'55 | 9♓17 | 4°24 | 28°18 | 8° 6 | 4° 6 | 29° 5 | 7° 4 | 11°58 | 23°18 | 21°20 | 22°26 | 0°55 | 2°29 | T 6 |
| F 7 | 19 0 32 | 14°52'06 | 23° 6 | 6° 2 | 29°16 | 8°42 | 4° 7 | 29° 3 | 7° 2 | 11°56 | 23°19 | 21°D20 | 22°23 | 1° 1 | 2°26 | F 7 |
| S 8 | 19 4 29 | 15°49'18 | 7♈ 3 | 7°38 | 0♊15 | 9°18 | 4° 9 | 29° 1 | 7° 0 | 11°54 | 23°20 | 21°20 | 22°20 | 1° 8 | 2°23 | S 8 |
| S 9 | 19 8 26 | 16°46'31 | 21° 8 | 9°12 | 1°14 | 9°53 | 4°10 | 28°58 | 6°58 | 11°53 | 23°22 | 21°R20 | 22°17 | 1°15 | 2°20 | S 9 |
| M10 | 19 12 22 | 17°43'44 | 5♉21 | 10°43 | 2°14 | 10°29 | 4°11 | 28°56 | 6°55 | 11°51 | 23°23 | 21°19 | 22°14 | 1°21 | 2°17 | M10 |
| T 11 | 19 16 19 | 18°40'58 | 19°39 | 12°13 | 3°14 | 11° 5 | 4°13 | 28°54 | 6°53 | 11°49 | 23°24 | 21°16 | 22°11 | 1°28 | 2°13 | T 11 |
| W12 | 19 20 15 | 19°38'13 | 4♊ 0 | 13°41 | 4°14 | 11°41 | 4°15 | 28°52 | 6°51 | 11°48 | 23°26 | 21°10 | 22° 7 | 1°35 | 2°10 | W12 |
| T 13 | 19 24 12 | 20°35'28 | 18°19 | 15° 6 | 5°15 | 12°17 | 4°17 | 28°50 | 6°49 | 11°46 | 23°27 | 21° 2 | 22° 4 | 1°41 | 2° 7 | T 13 |
| F 14 | 19 28 8 | 21°32'45 | 2♋32 | 16°29 | 6°16 | 12°53 | 4°19 | 28°48 | 6°46 | 11°45 | 23°28 | 20°53 | 22° 1 | 1°48 | 2° 3 | F 14 |
| S 15 | 19 32 5 | 22°30'01 | 16°32 | 17°51 | 7°17 | 13°30 | 4°22 | 28°47 | 6°44 | 11°43 | 23°30 | 20°44 | 21°58 | 1°55 | 2° 0 | S 15 |
| S 16 | 19 36 1 | 23°27'18 | 0♌16 | 19°10 | 8°18 | 14° 6 | 4°24 | 28°45 | 6°42 | 11°41 | 23°31 | 20°35 | 21°55 | 2° 2 | 1°57 | S 16 |
| M17 | 19 39 58 | 24°24'36 | 13°41 | 20°26 | 9°20 | 14°42 | 4°27 | 28°43 | 6°40 | 11°40 | 23°32 | 20°28 | 21°51 | 2° 8 | 1°53 | M17 |
| T 18 | 19 43 55 | 25°21'54 | 26°44 | 21°41 | 10°22 | 15°19 | 4°30 | 28°42 | 6°37 | 11°38 | 23°33 | 20°23 | 21°48 | 2°15 | 1°50 | T 18 |
| W19 | 19 47 51 | 26°19'13 | 9♍26 | 22°53 | 11°24 | 15°55 | 4°33 | 28°40 | 6°35 | 11°37 | 23°35 | 20°21 | 21°45 | 2°22 | 1°47 | W19 |
| T 20 | 19 51 48 | 27°16'32 | 21°49 | 24° 3 | 12°27 | 16°32 | 4°36 | 28°39 | 6°33 | 11°35 | 23°36 | 20°D20 | 21°42 | 2°28 | 1°43 | T 20 |
| F 21 | 19 55 44 | 28°13'51 | 3♎57 | 25°10 | 13°30 | 17° 8 | 4°40 | 28°38 | 6°30 | 11°34 | 23°37 | 20°21 | 21°39 | 2°35 | 1°40 | F 21 |
| S 22 | 19 59 41 | 29°11'11 | 15°55 | 26°15 | 14°33 | 17°45 | 4°43 | 28°37 | 6°28 | 11°32 | 23°38 | 20°22 | 21°36 | 2°42 | 1°36 | S 22 |
| S 23 | 20 3 37 | 0♏ 8'31 | 27°46 | 27°17 | 15°36 | 18°22 | 4°47 | 28°36 | 6°25 | 11°31 | 23°39 | 20°R23 | 21°32 | 2°48 | 1°33 | S 23 |
| M24 | 20 7 34 | 1° 5'52 | 9♏37 | 28°16 | 16°40 | 18°59 | 4°51 | 28°35 | 6°23 | 11°29 | 23°41 | 20°22 | 21°29 | 2°55 | 1°30 | M24 |
| T 25 | 20 11 30 | 2° 3'14 | 21°32 | 29°12 | 17°43 | 19°36 | 4°55 | 28°34 | 6°21 | 11°28 | 23°42 | 20°20 | 21°26 | 3° 2 | 1°26 | T 25 |
| W26 | 20 15 27 | 3° 0'36 | 3♐36 | 0♍ 5 | 18°47 | 20°13 | 4°59 | 28°33 | 6°18 | 11°26 | 23°43 | 20°16 | 21°23 | 3° 8 | 1°23 | W26 |
| T 27 | 20 19 24 | 3°57'59 | 15°53 | 0°55 | 19°52 | 20°50 | 5° 4 | 28°33 | 6°16 | 11°25 | 23°44 | 20°10 | 21°20 | 3°15 | 1°19 | T 27 |
| F 28 | 20 23 20 | 4°55'22 | 28°27 | 1°42 | 20°56 | 21°27 | 5° 8 | 28°32 | 6°13 | 11°23 | 23°45 | 20° 4 | 21°17 | 3°22 | 1°16 | F 28 |
| S 29 | 20 27 17 | 5°52'46 | 11♑18 | 2°25 | 22° 1 | 22° 4 | 5°13 | 28°32 | 6°11 | 11°22 | 23°46 | 19°56 | 21°13 | 3°28 | 1°13 | S 29 |
| S 30 | 20 31 13 | 6°50'11 | 24°27 | 3° 5 | 23° 6 | 22°41 | 5°18 | 28°31 | 6° 9 | 11°20 | 23°47 | 19°49 | 21°10 | 3°35 | 1° 9 | S 30 |
| M31 | 20 35 10 | 7♌47'37 | 7♒54 | 3♍40 | 24♊11 | 23♍18 | 5♏23 | 28♏31 | 6♒ 6 | 11♑19 | 23♊49 | 19♍42 | 21♍ 7 | 3♏42 | 1♒ 6 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n10 | 18s31 | 4n56 | 22n50 | 1n50 | 15n28 | 3s20 | 10n34 | 1n 0 | 11s48 | 1n10 | 18s 4 | 2n 1 | 19s 7 | 0s39 | 22s 7 | 0n49 | 16n36 | 6s43 | 3n12 | 2n54 | 8s40 | 12s20 | 7n26 |
| S 2 | 23 6 | 17 59 | 4 36 | 22 27 | 1 48 | 15 42 | 3 20 | 10 20 | 0 59 | 11 48 | 1 10 | 18 4 | 2 1 | 19 8 | 0 39 | 22 7 | 0 49 | 16 36 | 6 43 | 3 17 | 2 55 | 8 42 | 12 20 | 7 26 |
| M 3 | 23 1 | 16 30 | 4 1 | 22 2 | 1 45 | 15 55 | 3 19 | 10 7 | 0 59 | 11 49 | 1 9 | 18 4 | 2 0 | 19 8 | 0 39 | 22 7 | 0 49 | 16 36 | 6 43 | 3 20 | 2 57 | 8 43 | 12 21 | 7 27 |
| T 4 | 22 56 | 14 6 | 3 12 | 21 36 | 1 41 | 16 9 | 3 19 | 9 53 | 0 58 | 11 49 | 1 9 | 18 3 | 2 0 | 19 9 | 0 39 | 22 7 | 0 49 | 16 36 | 6 43 | 3 24 | 2 58 | 8 45 | 12 21 | 7 27 |
| W 5 | 22 51 | 10 55 | 2 12 | 21 9 | 1 37 | 16 23 | 3 18 | 9 39 | 0 57 | 11 49 | 1 9 | 18 3 | 2 0 | 19 9 | 0 39 | 22 7 | 0 49 | 16 36 | 6 43 | 3 25 | 2 59 | 8 47 | 12 22 | 7 27 |
| T 6 | 22 45 | 7 7 | 1 4 | 20 41 | 1 32 | 16 36 | 3 17 | 9 25 | 0 56 | 11 50 | 1 9 | 18 2 | 2 0 | 19 10 | 0 39 | 22 8 | 0 49 | 16 36 | 6 43 | 3 26 | 3 0 | 8 48 | 12 22 | 7 27 |
| F 7 | 22 39 | 2 53 | 0s 9 | 20 11 | 1 26 | 16 50 | 3 17 | 9 11 | 0 56 | 11 51 | 1 8 | 18 2 | 2 0 | 19 11 | 0 39 | 22 8 | 0 49 | 16 36 | 6 43 | 3 27 | 3 2 | 8 50 | 12 23 | 7 27 |
| S 8 | 22 32 | 1n32 | 1 23 | 19 41 | 1 20 | 17 3 | 3 16 | 8 57 | 0 55 | 11 51 | 1 8 | 18 2 | 1 59 | 19 11 | 0 39 | 22 8 | 0 49 | 16 36 | 6 43 | 3 26 | 3 3 | 8 52 | 12 23 | 7 28 |
| S 9 | 22 26 | 5 55 | 2 32 | 19 11 | 1 14 | 17 16 | 3 14 | 8 42 | 0 54 | 11 52 | 1 8 | 18 2 | 1 59 | 19 12 | 0 39 | 22 8 | 0 49 | 16 36 | 6 43 | 3 26 | 3 4 | 8 53 | 12 24 | 7 28 |
| M10 | 22 18 | 9 59 | 3 32 | 18 39 | 1 7 | 17 29 | 3 13 | 8 28 | 0 53 | 11 53 | 1 8 | 18 1 | 1 59 | 19 12 | 0 39 | 22 8 | 0 49 | 16 36 | 6 43 | 3 27 | 3 5 | 8 55 | 12 25 | 7 28 |
| T 11 | 22 11 | 13 30 | 4 20 | 18 7 | 1 0 | 17 42 | 3 12 | 8 14 | 0 52 | 11 54 | 1 7 | 18 1 | 1 59 | 19 13 | 0 39 | 22 8 | 0 49 | 16 36 | 6 43 | 3 28 | 3 7 | 8 57 | 12 25 | 7 28 |
| W12 | 22 2 | 16 13 | 4 51 | 17 35 | 0 52 | 17 55 | 3 10 | 7 59 | 0 52 | 11 54 | 1 7 | 18 1 | 1 58 | 19 13 | 0 39 | 22 9 | 0 49 | 16 36 | 6 43 | 3 30 | 3 8 | 8 58 | 12 26 | 7 28 |
| T 13 | 21 54 | 17 55 | 5 4 | 17 2 | 0 44 | 18 7 | 3 9 | 7 45 | 0 51 | 11 55 | 1 7 | 18 1 | 1 58 | 19 14 | 0 39 | 22 9 | 0 49 | 16 37 | 6 43 | 3 34 | 3 9 | 9 0 | 12 26 | 7 28 |
| F 14 | 21 45 | 18 29 | 4 58 | 16 29 | 0 36 | 18 19 | 3 7 | 7 30 | 0 50 | 11 56 | 1 6 | 18 0 | 1 58 | 19 15 | 0 39 | 22 9 | 0 49 | 16 37 | 6 43 | 3 37 | 3 10 | 9 1 | 12 27 | 7 28 |
| S 15 | 21 36 | 17 55 | 4 34 | 15 56 | 0 27 | 18 31 | 3 5 | 7 16 | 0 49 | 11 57 | 1 6 | 18 0 | 1 58 | 19 15 | 0 39 | 22 9 | 0 49 | 16 37 | 6 43 | 3 41 | 3 12 | 9 3 | 12 28 | 7 28 |
| S 16 | 21 26 | 16 18 | 3 55 | 15 23 | 0 17 | 18 43 | 3 3 | 7 1 | 0 49 | 11 59 | 1 6 | 18 0 | 1 58 | 19 16 | 0 39 | 22 9 | 0 49 | 16 37 | 6 43 | 3 44 | 3 13 | 9 5 | 12 28 | 7 28 |
| M17 | 21 16 | 13 49 | 3 3 | 14 49 | 0 8 | 18 54 | 3 1 | 6 46 | 0 48 | 12 0 | 1 6 | 18 0 | 1 57 | 19 16 | 0 39 | 22 9 | 0 49 | 16 37 | 6 43 | 3 47 | 3 14 | 9 6 | 12 29 | 7 28 |
| T 18 | 21 6 | 10 42 | 2 3 | 14 16 | 0s 2 | 19 5 | 2 59 | 6 31 | 0 47 | 12 1 | 1 5 | 18 0 | 1 57 | 19 17 | 0 39 | 22 9 | 0 49 | 16 37 | 6 43 | 3 49 | 3 15 | 9 8 | 12 30 | 7 28 |
| W19 | 20 55 | 7 9 | 0 58 | 13 43 | 0 12 | 19 16 | 2 57 | 6 16 | 0 46 | 12 2 | 1 5 | 18 0 | 1 57 | 19 18 | 0 39 | 22 10 | 0 49 | 16 37 | 6 43 | 3 50 | 3 17 | 9 10 | 12 30 | 7 29 |
| T 20 | 20 44 | 3 22 | 0n 8 | 13 10 | 0 23 | 19 26 | 2 55 | 6 2 | 0 46 | 12 4 | 1 5 | 18 0 | 1 57 | 19 18 | 0 39 | 22 10 | 0 49 | 16 37 | 6 43 | 3 50 | 3 18 | 9 11 | 12 31 | 7 29 |
| F 21 | 20 33 | 0s28 | 1 13 | 12 38 | 0 34 | 19 37 | 2 52 | 5 47 | 0 45 | 12 5 | 1 5 | 18 0 | 1 56 | 19 19 | 0 39 | 22 10 | 0 49 | 16 37 | 6 43 | 3 50 | 3 19 | 9 13 | 12 32 | 7 29 |
| S 22 | 20 21 | 4 13 | 2 13 | 12 6 | 0 45 | 19 46 | 2 50 | 5 32 | 0 44 | 12 6 | 1 4 | 18 0 | 1 56 | 19 19 | 0 39 | 22 10 | 0 49 | 16 37 | 6 43 | 3 49 | 3 20 | 9 15 | 12 32 | 7 29 |
| S 23 | 20 9 | 7 46 | 3 8 | 11 34 | 0 56 | 19 56 | 2 47 | 5 17 | 0 43 | 12 8 | 1 4 | 18 0 | 1 56 | 19 20 | 0 39 | 22 10 | 0 49 | 16 37 | 6 43 | 3 49 | 3 22 | 9 16 | 12 33 | 7 29 |
| M24 | 19 57 | 11 1 | 3 54 | 11 3 | 1 7 | 20 5 | 2 45 | 5 1 | 0 43 | 12 9 | 1 4 | 18 0 | 1 56 | 19 21 | 0 39 | 22 10 | 0 49 | 16 37 | 6 43 | 3 49 | 3 23 | 9 18 | 12 34 | 7 29 |
| T 25 | 19 44 | 13 49 | 4 31 | 10 32 | 1 19 | 20 14 | 2 42 | 4 46 | 0 42 | 12 11 | 1 4 | 18 0 | 1 55 | 19 21 | 0 39 | 22 10 | 0 49 | 16 37 | 6 43 | 3 50 | 3 24 | 9 20 | 12 35 | 7 29 |
| W26 | 19 31 | 16 4 | 4 56 | 10 3 | 1 31 | 20 22 | 2 39 | 4 31 | 0 41 | 12 13 | 1 3 | 18 0 | 1 55 | 19 22 | 0 39 | 22 11 | 0 49 | 16 37 | 6 43 | 3 52 | 3 25 | 9 21 | 12 35 | 7 29 |
| T 27 | 19 18 | 17 38 | 5 8 | 9 34 | 1 43 | 20 30 | 2 36 | 4 16 | 0 41 | 12 14 | 1 3 | 18 0 | 1 55 | 19 22 | 0 39 | 22 11 | 0 49 | 16 37 | 6 44 | 3 54 | 3 27 | 9 23 | 12 36 | 7 28 |
| F 28 | 19 4 | 18 23 | 5 5 | 9 6 | 1 55 | 20 37 | 2 33 | 4 0 | 0 40 | 12 16 | 1 3 | 18 0 | 1 55 | 19 23 | 0 39 | 22 11 | 0 49 | 16 37 | 6 44 | 3 57 | 3 28 | 9 24 | 12 37 | 7 28 |
| S 29 | 18 50 | 18 13 | 4 48 | 8 39 | 2 7 | 20 44 | 2 30 | 3 45 | 0 39 | 12 18 | 1 3 | 18 0 | 1 55 | 19 24 | 0 39 | 22 11 | 0 49 | 16 37 | 6 44 | 4 0 | 3 29 | 9 26 | 12 38 | 7 28 |
| S 30 | 18 36 | 17 5 | 4 14 | 8 14 | 2 19 | 20 51 | 2 27 | 3 30 | 0 38 | 12 20 | 1 2 | 18 0 | 1 54 | 19 24 | 0 39 | 22 11 | 0 49 | 16 37 | 6 44 | 4 2 | 3 30 | 9 28 | 12 38 | 7 28 |
| M31 | 18n21 | 15s 0 | 3n27 | 7n50 | 2s31 | 20n57 | 2s24 | 3n14 | 0n38 | 12s22 | 1n 2 | 18s 1 | 1n54 | 19s25 | 0s39 | 22s11 | 0n49 | 16n37 | 6s44 | 4n 5 | 3n32 | 9s29 | 12s39 | 7n28 |

Julian Day Number = 2328274.5, Delta T = 34.69 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'46, Lahiri = 19°08'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## AUGUST 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 39 6 | 8♌45'04 | 21♒36 | 4♍12 | 25♊16 | 23♍56 | 5♏28 | 28°R31 | 6°R 4 | 11°R18 | 23♊50 | 19°R38 | 21♍ 4 | 3♏48 | 1°R 3 | T 1 |
| W 2 | 20 43 3 | 9°42'32 | 5♓31 | 4°39 | 26°21 | 24°33 | 5°34 | 28°D31 | 6♒ 2 | 11♑16 | 23°51 | 19♍35 | 21° 1 | 3°55 | 0♒59 | W 2 |
| T 3 | 20 46 59 | 10°40'01 | 19°34 | 5° 2 | 27°27 | 25°11 | 5°39 | 28♏31 | 5°59 | 11°15 | 23°52 | 19°D34 | 20°57 | 4° 2 | 0°56 | T 3 |
| F 4 | 20 50 56 | 11°37'32 | 3♈44 | 5°21 | 28°33 | 25°48 | 5°45 | 28°31 | 5°57 | 11°13 | 23°53 | 19°35 | 20°54 | 4° 8 | 0°53 | F 4 |
| S 5 | 20 54 53 | 12°35'03 | 17°56 | 5°34 | 29°39 | 26°26 | 5°51 | 28°31 | 5°54 | 11°12 | 23°54 | 19°36 | 20°51 | 4°15 | 0°49 | S 5 |
| S 6 | 20 58 49 | 13°32'36 | 2♉10 | 5°43 | 0♋45 | 27° 3 | 5°56 | 28°32 | 5°52 | 11°11 | 23°55 | 19°38 | 20°48 | 4°22 | 0°46 | S 6 |
| M 7 | 21 2 46 | 14°30'11 | 16°21 | 5°R46 | 1°52 | 27°41 | 6° 3 | 28°32 | 5°50 | 11° 9 | 23°56 | 19°R38 | 20°45 | 4°28 | 0°43 | M 7 |
| T 8 | 21 6 42 | 15°27'48 | 0♊30 | 5°44 | 2°58 | 28°19 | 6° 9 | 28°32 | 5°47 | 11° 8 | 23°57 | 19°37 | 20°42 | 4°35 | 0°39 | T 8 |
| W 9 | 21 10 39 | 16°25'25 | 14°33 | 5°37 | 4° 5 | 28°57 | 6°15 | 28°33 | 5°45 | 11° 7 | 23°58 | 19°35 | 20°38 | 4°42 | 0°36 | W 9 |
| T 10 | 21 14 35 | 17°23'05 | 28°29 | 5°24 | 5°12 | 29°35 | 6°22 | 28°34 | 5°43 | 11° 6 | 23°59 | 19°31 | 20°35 | 4°49 | 0°33 | T 10 |
| F 11 | 21 18 32 | 18°20'46 | 12♋15 | 5° 5 | 6°19 | 0♎13 | 6°28 | 28°35 | 5°40 | 11° 5 | 24° 0 | 19°27 | 20°32 | 4°55 | 0°30 | F 11 |
| S 12 | 21 22 28 | 19°18'28 | 25°49 | 4°41 | 7°27 | 0°51 | 6°35 | 28°35 | 5°38 | 11° 3 | 24° 0 | 19°22 | 20°29 | 5° 2 | 0°27 | S 12 |
| S 13 | 21 26 25 | 20°16'12 | 9♌ 9 | 4°12 | 8°34 | 1°29 | 6°42 | 28°36 | 5°36 | 11° 2 | 24° 1 | 19°18 | 20°26 | 5° 9 | 0°24 | S 13 |
| M14 | 21 30 22 | 21°13'57 | 22°13 | 3°37 | 9°42 | 2° 7 | 6°49 | 28°38 | 5°33 | 11° 1 | 24° 2 | 19°14 | 20°22 | 5°15 | 0°21 | M14 |
| T 15 | 21 34 18 | 22°11'44 | 5♍ 0 | 2°58 | 10°49 | 2°46 | 6°56 | 28°39 | 5°31 | 11° 0 | 24° 3 | 19°12 | 20°19 | 5°22 | 0°18 | T 15 |
| W16 | 21 38 15 | 23° 9'31 | 17°32 | 2°14 | 11°57 | 3°24 | 7° 4 | 28°40 | 5°29 | 10°59 | 24° 4 | 19°D11 | 20°16 | 5°29 | 0°14 | W16 |
| T 17 | 21 42 11 | 24° 7'21 | 29°49 | 1°26 | 13° 5 | 4° 2 | 7°11 | 28°41 | 5°27 | 10°58 | 24° 5 | 19°12 | 20°13 | 5°35 | 0°11 | T 17 |
| F 18 | 21 46 8 | 25° 5'11 | 11♎54 | 0°35 | 14°14 | 4°41 | 7°19 | 28°43 | 5°24 | 10°57 | 24° 5 | 19°13 | 20°10 | 5°42 | 0° 9 | F 18 |
| S 19 | 21 50 4 | 26° 3'03 | 23°51 | 29♌42 | 15°22 | 5°19 | 7°26 | 28°44 | 5°22 | 10°56 | 24° 6 | 19°15 | 20° 7 | 5°49 | 0° 6 | S 19 |
| S 20 | 21 54 1 | 27° 0'56 | 5♏42 | 28°48 | 16°30 | 5°58 | 7°34 | 28°46 | 5°20 | 10°55 | 24° 7 | 19°16 | 20° 3 | 5°55 | 0° 3 | S 20 |
| M21 | 21 57 57 | 27°58'50 | 17°32 | 27°54 | 17°39 | 6°37 | 7°42 | 28°48 | 5°18 | 10°54 | 24° 8 | 19°17 | 20° 0 | 6° 2 | 29♑59 | M21 |
| T 22 | 22 1 54 | 28°56'46 | 29°27 | 27° 1 | 18°48 | 7°15 | 7°50 | 28°50 | 5°16 | 10°53 | 24° 8 | 19°R18 | 19°57 | 6° 9 | 29°57 | T 22 |
| W23 | 22 5 50 | 29°54'43 | 11♐32 | 26°10 | 19°56 | 7°54 | 7°59 | 28°52 | 5°14 | 10°52 | 24° 9 | 19°17 | 19°54 | 6°15 | 29°54 | W23 |
| T 24 | 22 9 47 | 0♍52'41 | 23°49 | 25°22 | 21° 5 | 8°33 | 8° 7 | 28°54 | 5°11 | 10°51 | 24°10 | 19°16 | 19°51 | 6°22 | 29°52 | T 24 |
| F 25 | 22 13 44 | 1°50'41 | 6♑24 | 24°38 | 22°15 | 9°12 | 8°15 | 28°56 | 5° 9 | 10°50 | 24°11 | 19°14 | 19°48 | 6°29 | 29°49 | F 25 |
| S 26 | 22 17 40 | 2°48'42 | 19°20 | 24° 0 | 23°24 | 9°51 | 8°24 | 28°58 | 5° 7 | 10°49 | 24°11 | 19°12 | 19°44 | 6°35 | 29°46 | S 26 |
| S 27 | 22 21 37 | 3°46'45 | 2♒39 | 23°28 | 24°33 | 10°30 | 8°33 | 29° 0 | 5° 5 | 10°48 | 24°12 | 19° 9 | 19°41 | 6°42 | 29°44 | S 27 |
| M28 | 22 25 33 | 4°44'49 | 16°19 | 23° 3 | 25°43 | 11° 9 | 8°42 | 29° 3 | 5° 3 | 10°47 | 24°12 | 19° 8 | 19°38 | 6°49 | 29°41 | M28 |
| T 29 | 22 29 30 | 5°42'54 | 0♓20 | 22°45 | 26°52 | 11°48 | 8°50 | 29° 5 | 5° 1 | 10°47 | 24°13 | 19° 6 | 19°35 | 6°56 | 29°39 | T 29 |
| W30 | 22 33 26 | 6°41'02 | 14°38 | 22°36 | 28° 2 | 12°27 | 9° 0 | 29° 8 | 5° 0 | 10°46 | 24°14 | 19°D 6 | 19°32 | 7° 2 | 29°36 | W30 |
| T 31 | 22 37 23 | 7♍39'11 | 29♓ 8 | 22°D35 | 29♋12 | 13♎ 7 | 9♏ 9 | 29♏11 | 4♒58 | 10♑45 | 24♊14 | 19♍ 6 | 19♍28 | 7♏ 9 | 29♑34 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n 6 | 12s 1 | 2n26 | 7n27 | 2s43 | 21n 3 | 2s21 | 2n59 | 0n37 | 12s24 | 1n 2 | 18s 1 | 1n54 | 19s25 | 0s39 | 22s12 | 0n49 | 16n37 | 6s44 | 4n 7 | 3n33 | 9s31 | 12s40 | 7n28 |
| W 2 | 17 51 | 8 20 | 1 16 | 7 6 | 2 55 | 21 8 | 2 18 | 2 43 | 0 36 | 12 26 | 1 2 | 18 1 | 1 54 | 19 26 | 0 39 | 22 12 | 0 49 | 16 37 | 6 44 | 4 8 | 3 34 | 9 33 | 12 41 | 7 28 |
| T 3 | 17 35 | 4 8 | 0 0 | 6 47 | 3 7 | 21 13 | 2 15 | 2 28 | 0 35 | 12 28 | 1 1 | 18 1 | 1 53 | 19 27 | 0 39 | 22 12 | 0 49 | 16 37 | 6 44 | 4 8 | 3 35 | 9 34 | 12 42 | 7 28 |
| F 4 | 17 20 | 0n19 | 1s16 | 6 29 | 3 19 | 21 17 | 2 11 | 2 12 | 0 35 | 12 30 | 1 1 | 18 1 | 1 53 | 19 27 | 0 39 | 22 12 | 0 49 | 16 37 | 6 44 | 4 8 | 3 37 | 9 36 | 12 42 | 7 28 |
| S 5 | 17 4 | 4 46 | 2 28 | 6 14 | 3 30 | 21 21 | 2 8 | 1 57 | 0 34 | 12 32 | 1 1 | 18 2 | 1 53 | 19 28 | 0 39 | 22 12 | 0 49 | 16 37 | 6 44 | 4 7 | 3 38 | 9 37 | 12 43 | 7 28 |
| S 6 | 16 47 | 8 56 | 3 31 | 6 1 | 3 41 | 21 24 | 2 5 | 1 41 | 0 33 | 12 34 | 1 1 | 18 2 | 1 53 | 19 28 | 0 39 | 22 12 | 0 49 | 16 37 | 6 44 | 4 7 | 3 39 | 9 39 | 12 44 | 7 28 |
| M 7 | 16 31 | 12 35 | 4 21 | 5 50 | 3 51 | 21 27 | 2 1 | 1 25 | 0 33 | 12 37 | 1 0 | 18 2 | 1 52 | 19 29 | 0 39 | 22 12 | 0 49 | 16 37 | 6 44 | 4 7 | 3 40 | 9 41 | 12 45 | 7 27 |
| T 8 | 16 14 | 15 29 | 4 55 | 5 41 | 4 1 | 21 29 | 1 58 | 1 9 | 0 32 | 12 39 | 1 0 | 18 3 | 1 52 | 19 30 | 0 39 | 22 12 | 0 48 | 16 37 | 6 44 | 4 7 | 3 42 | 9 42 | 12 46 | 7 27 |
| W 9 | 15 56 | 17 26 | 5 11 | 5 36 | 4 10 | 21 31 | 1 54 | 0 54 | 0 31 | 12 41 | 1 0 | 18 3 | 1 52 | 19 30 | 0 39 | 22 13 | 0 48 | 16 37 | 6 44 | 4 8 | 3 43 | 9 44 | 12 46 | 7 27 |
| T 10 | 15 39 | 18 20 | 5 8 | 5 33 | 4 18 | 21 32 | 1 51 | 0 38 | 0 30 | 12 44 | 1 0 | 18 4 | 1 52 | 19 31 | 0 39 | 22 13 | 0 48 | 16 37 | 6 44 | 4 9 | 3 44 | 9 46 | 12 47 | 7 27 |
| F 11 | 15 21 | 18 8 | 4 48 | 5 33 | 4 25 | 21 33 | 1 47 | 0 22 | 0 30 | 12 46 | 0 59 | 18 4 | 1 51 | 19 31 | 0 39 | 22 13 | 0 48 | 16 37 | 6 44 | 4 11 | 3 45 | 9 47 | 12 48 | 7 27 |
| S 12 | 15 3 | 16 54 | 4 12 | 5 36 | 4 31 | 21 33 | 1 43 | 0 6 | 0 29 | 12 48 | 0 59 | 18 4 | 1 51 | 19 32 | 0 39 | 22 13 | 0 48 | 16 37 | 6 45 | 4 13 | 3 47 | 9 49 | 12 49 | 7 26 |
| S 13 | 14 45 | 14 45 | 3 22 | 5 42 | 4 36 | 21 33 | 1 40 | 0s 9 | 0 28 | 12 51 | 0 59 | 18 5 | 1 51 | 19 32 | 0 39 | 22 13 | 0 48 | 16 36 | 6 45 | 4 15 | 3 48 | 9 50 | 12 50 | 7 26 |
| M14 | 14 27 | 11 53 | 2 23 | 5 51 | 4 39 | 21 32 | 1 36 | 0 25 | 0 28 | 12 53 | 0 59 | 18 5 | 1 51 | 19 33 | 0 39 | 22 13 | 0 48 | 16 36 | 6 45 | 4 16 | 3 49 | 9 52 | 12 51 | 7 26 |
| T 15 | 14 8 | 8 30 | 1 17 | 6 4 | 4 41 | 21 30 | 1 32 | 0 41 | 0 27 | 12 56 | 0 58 | 18 6 | 1 50 | 19 34 | 0 39 | 22 13 | 0 48 | 16 36 | 6 45 | 4 17 | 3 50 | 9 54 | 12 51 | 7 26 |
| W16 | 13 49 | 4 48 | 0 9 | 6 19 | 4 41 | 21 28 | 1 29 | 0 57 | 0 26 | 12 59 | 0 58 | 18 6 | 1 50 | 19 34 | 0 39 | 22 13 | 0 48 | 16 36 | 6 45 | 4 17 | 3 52 | 9 55 | 12 52 | 7 26 |
| T 17 | 13 30 | 0 58 | 0n58 | 6 37 | 4 40 | 21 26 | 1 25 | 1 13 | 0 26 | 13 1 | 0 58 | 18 7 | 1 50 | 19 35 | 0 39 | 22 14 | 0 48 | 16 36 | 6 45 | 4 17 | 3 53 | 9 57 | 12 53 | 7 25 |
| F 18 | 13 11 | 2s51 | 2 2 | 6 58 | 4 36 | 21 22 | 1 21 | 1 29 | 0 25 | 13 4 | 0 58 | 18 7 | 1 50 | 19 35 | 0 39 | 22 14 | 0 48 | 16 36 | 6 45 | 4 17 | 3 54 | 9 58 | 12 54 | 7 25 |
| S 19 | 12 51 | 6 29 | 2 59 | 7 22 | 4 31 | 21 19 | 1 18 | 1 45 | 0 24 | 13 7 | 0 58 | 18 8 | 1 50 | 19 36 | 0 39 | 22 14 | 0 48 | 16 36 | 6 45 | 4 16 | 3 55 | 10 0 | 12 55 | 7 25 |
| S 20 | 12 32 | 9 50 | 3 49 | 7 47 | 4 24 | 21 14 | 1 14 | 2 1 | 0 23 | 13 9 | 0 57 | 18 9 | 1 49 | 19 36 | 0 39 | 22 14 | 0 48 | 16 36 | 6 45 | 4 15 | 3 57 | 10 2 | 12 56 | 7 25 |
| M21 | 12 12 | 12 48 | 4 29 | 8 14 | 4 15 | 21 9 | 1 10 | 2 17 | 0 23 | 13 12 | 0 57 | 18 9 | 1 49 | 19 37 | 0 39 | 22 14 | 0 48 | 16 36 | 6 45 | 4 15 | 3 58 | 10 3 | 12 57 | 7 24 |
| T 22 | 11 52 | 15 14 | 4 57 | 8 43 | 4 4 | 21 4 | 1 6 | 2 33 | 0 22 | 13 15 | 0 57 | 18 10 | 1 49 | 19 37 | 0 39 | 22 14 | 0 48 | 16 36 | 6 45 | 4 15 | 3 59 | 10 5 | 12 57 | 7 24 |
| W23 | 11 31 | 17 2 | 5 13 | 9 12 | 3 51 | 20 58 | 1 3 | 2 49 | 0 21 | 13 18 | 0 57 | 18 10 | 1 49 | 19 38 | 0 39 | 22 14 | 0 48 | 16 36 | 6 45 | 4 15 | 4 0 | 10 6 | 12 58 | 7 24 |
| T 24 | 11 11 | 18 6 | 5 15 | 9 41 | 3 37 | 20 51 | 0 59 | 3 5 | 0 21 | 13 21 | 0 57 | 18 11 | 1 48 | 19 38 | 0 39 | 22 14 | 0 48 | 16 36 | 6 46 | 4 15 | 4 2 | 10 8 | 12 59 | 7 23 |
| F 25 | 10 50 | 18 18 | 5 2 | 10 10 | 3 21 | 20 44 | 0 55 | 3 21 | 0 20 | 13 24 | 0 56 | 18 12 | 1 48 | 19 39 | 0 39 | 22 14 | 0 48 | 16 36 | 6 46 | 4 16 | 4 3 | 10 10 | 13 0 | 7 23 |
| S 26 | 10 29 | 17 34 | 4 33 | 10 39 | 3 4 | 20 36 | 0 51 | 3 37 | 0 19 | 13 27 | 0 56 | 18 12 | 1 48 | 19 39 | 0 39 | 22 15 | 0 48 | 16 36 | 6 46 | 4 17 | 4 4 | 10 11 | 13 1 | 7 23 |
| S 27 | 10 8 | 15 53 | 3 50 | 11 6 | 2 47 | 20 28 | 0 48 | 3 53 | 0 19 | 13 30 | 0 56 | 18 13 | 1 48 | 19 40 | 0 39 | 22 15 | 0 48 | 16 36 | 6 46 | 4 18 | 4 5 | 10 13 | 13 2 | 7 22 |
| M28 | 9 47 | 13 14 | 2 52 | 11 31 | 2 29 | 20 19 | 0 44 | 4 9 | 0 18 | 13 33 | 0 56 | 18 14 | 1 47 | 19 40 | 0 39 | 22 15 | 0 48 | 16 36 | 6 46 | 4 19 | 4 7 | 10 14 | 13 3 | 7 22 |
| T 29 | 9 26 | 9 47 | 1 42 | 11 55 | 2 10 | 20 10 | 0 40 | 4 25 | 0 17 | 13 36 | 0 56 | 18 15 | 1 47 | 19 41 | 0 39 | 22 15 | 0 48 | 16 36 | 6 46 | 4 19 | 4 8 | 10 16 | 13 3 | 7 22 |
| W30 | 9 4 | 5 41 | 0 25 | 12 15 | 1 51 | 20 0 | 0 36 | 4 40 | 0 17 | 13 39 | 0 55 | 18 16 | 1 47 | 19 41 | 0 39 | 22 15 | 0 48 | 16 36 | 6 46 | 4 19 | 4 9 | 10 18 | 13 4 | 7 21 |
| T 31 | 8n43 | 1s11 | 0s55 | 12n34 | 1s32 | 19n49 | 0s33 | 4s56 | 0n16 | 13s42 | 0n55 | 18s16 | 1n47 | 19s42 | 0s39 | 22s15 | 0n48 | 16n35 | 6s46 | 4n19 | 4n10 | 10s19 | 13s 5 | 7n21 |

Julian Day Number = 2328305.5, Delta T = 34.63 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'50, Lahiri = 19°08'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## SEPTEMBER 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 41 19 | 8♍37'21 | 13♈45 | 22♌43 | 0♌22 | 13♎46 | 9♏18 | 29♏13 | 4°R56 | 10°R45 | 24♊15 | 19♍ 7 | 19♍25 | 7♏16 | 29°R32 | F 1 |
| S 2 | 22 45 16 | 9°35'34 | 28°21 | 23° 0 | 1°32 | 14°25 | 9°27 | 29°16 | 4♒54 | 10♑44 | 24°15 | 19° 7 | 19°22 | 7°22 | 29♑29 | S 2 |
| S 3 | 22 49 13 | 10°33'49 | 12♉53 | 23°26 | 2°42 | 15° 5 | 9°37 | 29°19 | 4°52 | 10°43 | 24°16 | 19° 8 | 19°19 | 7°29 | 29°27 | S 3 |
| M 4 | 22 53 9 | 11°32'06 | 27°15 | 24° 0 | 3°53 | 15°44 | 9°46 | 29°22 | 4°50 | 10°43 | 24°16 | 19° 9 | 19°16 | 7°36 | 29°25 | M 4 |
| T 5 | 22 57 6 | 12°30'25 | 11♊24 | 24°43 | 5° 3 | 16°24 | 9°56 | 29°25 | 4°49 | 10°42 | 24°16 | 19°R 9 | 19°13 | 7°42 | 29°23 | T 5 |
| W 6 | 23 1 2 | 13°28'47 | 25°20 | 25°33 | 6°14 | 17° 4 | 10° 6 | 29°29 | 4°47 | 10°42 | 24°17 | 19° 9 | 19° 9 | 7°49 | 29°21 | W 6 |
| T 7 | 23 4 59 | 14°27'10 | 9♋ 0 | 26°32 | 7°24 | 17°43 | 10°16 | 29°32 | 4°45 | 10°41 | 24°17 | 19° 8 | 19° 6 | 7°56 | 29°19 | T 7 |
| F 8 | 23 8 55 | 15°25'36 | 22°25 | 27°37 | 8°35 | 18°23 | 10°26 | 29°35 | 4°44 | 10°41 | 24°18 | 19° 8 | 19° 3 | 8° 2 | 29°17 | F 8 |
| S 9 | 23 12 52 | 16°24'04 | 5♌35 | 28°49 | 9°46 | 19° 3 | 10°36 | 29°39 | 4°42 | 10°40 | 24°18 | 19° 8 | 19° 0 | 8° 9 | 29°15 | S 9 |
| S 10 | 23 16 48 | 17°22'33 | 18°31 | 0♍ 8 | 10°57 | 19°43 | 10°46 | 29°42 | 4°40 | 10°40 | 24°18 | 19° 7 | 18°57 | 8°16 | 29°13 | S 10 |
| M11 | 23 20 45 | 18°21'05 | 1♍13 | 1°31 | 12° 8 | 20°23 | 10°56 | 29°46 | 4°39 | 10°39 | 24°19 | 19° 7 | 18°54 | 8°22 | 29°11 | M11 |
| T 12 | 23 24 42 | 19°19'39 | 13°43 | 3° 0 | 13°19 | 21° 3 | 11° 6 | 29°49 | 4°37 | 10°39 | 24°19 | 19° 7 | 18°50 | 8°29 | 29° 9 | T 12 |
| W13 | 23 28 38 | 20°18'15 | 26° 1 | 4°33 | 14°31 | 21°43 | 11°17 | 29°53 | 4°36 | 10°39 | 24°19 | 19° 7 | 18°47 | 8°36 | 29° 8 | W13 |
| T 14 | 23 32 35 | 21°16'52 | 8♎ 9 | 6° 9 | 15°42 | 22°23 | 11°27 | 29°57 | 4°34 | 10°38 | 24°19 | 19° 7 | 18°44 | 8°43 | 29° 6 | T 14 |
| F 15 | 23 36 31 | 22°15'32 | 20° 8 | 7°49 | 16°53 | 23° 4 | 11°38 | 0♐ 1 | 4°33 | 10°38 | 24°20 | 19° 7 | 18°41 | 8°49 | 29° 5 | F 15 |
| S 16 | 23 40 28 | 23°14'13 | 2♏ 2 | 9°31 | 18° 5 | 23°44 | 11°49 | 0° 5 | 4°32 | 10°38 | 24°20 | 19° 6 | 18°38 | 8°56 | 29° 3 | S 16 |
| S 17 | 23 44 24 | 24°12'56 | 13°52 | 11°15 | 19°17 | 24°24 | 11°59 | 0° 9 | 4°30 | 10°38 | 24°20 | 19° 6 | 18°34 | 9° 3 | 29° 2 | S 17 |
| M18 | 23 48 21 | 25°11'41 | 25°42 | 13° 2 | 20°28 | 25° 5 | 12°10 | 0°13 | 4°29 | 10°38 | 24°20 | 19° 5 | 18°31 | 9° 9 | 29° 0 | M18 |
| T 19 | 23 52 17 | 26°10'28 | 7♐36 | 14°49 | 21°40 | 25°45 | 12°21 | 0°18 | 4°28 | 10°38 | 24°20 | 19° 4 | 18°28 | 9°16 | 28°59 | T 19 |
| W20 | 23 56 14 | 27° 9'17 | 19°38 | 16°37 | 22°52 | 26°26 | 12°32 | 0°22 | 4°27 | 10°37 | 24°20 | 19° 4 | 18°25 | 9°23 | 28°58 | W20 |
| T 21 | 0 0 10 | 28° 8'07 | 1♑53 | 18°26 | 24° 4 | 27° 6 | 12°43 | 0°26 | 4°26 | 10°37 | 24°20 | 19°D 4 | 18°22 | 9°29 | 28°57 | T 21 |
| F 22 | 0 4 7 | 29° 6'59 | 14°24 | 20°16 | 25°16 | 27°47 | 12°55 | 0°31 | 4°25 | 10°D37 | 24°20 | 19° 4 | 18°19 | 9°36 | 28°56 | F 22 |
| S 23 | 0 8 4 | 0♎ 5'53 | 27°17 | 22° 5 | 26°28 | 28°28 | 13° 6 | 0°35 | 4°24 | 10°37 | 24°20 | 19° 5 | 18°15 | 9°43 | 28°55 | S 23 |
| S 24 | 0 12 0 | 1° 4'48 | 10♒34 | 23°55 | 27°41 | 29° 9 | 13°17 | 0°40 | 4°23 | 10°37 | 24°R20 | 19° 6 | 18°12 | 9°49 | 28°54 | S 24 |
| M25 | 0 15 57 | 2° 3'46 | 24°17 | 25°44 | 28°53 | 29°49 | 13°29 | 0°45 | 4°22 | 10°37 | 24°20 | 19° 7 | 18° 9 | 9°56 | 28°53 | M25 |
| T 26 | 0 19 53 | 3° 2'45 | 8♓26 | 27°33 | 0♍ 5 | 0♏30 | 13°40 | 0°49 | 4°21 | 10°38 | 24°20 | 19° 8 | 18° 6 | 10° 3 | 28°52 | T 26 |
| W27 | 0 23 50 | 4° 1'46 | 22°58 | 29°21 | 1°18 | 1°11 | 13°52 | 0°54 | 4°20 | 10°38 | 24°20 | 19°R 8 | 18° 3 | 10°10 | 28°51 | W27 |
| T 28 | 0 27 46 | 5° 0'49 | 7♈48 | 1♎ 9 | 2°31 | 1°52 | 14° 3 | 0°59 | 4°19 | 10°38 | 24°20 | 19° 7 | 17°59 | 10°16 | 28°51 | T 28 |
| F 29 | 0 31 43 | 5°59'54 | 22°48 | 2°56 | 3°43 | 2°34 | 14°15 | 1° 4 | 4°18 | 10°38 | 24°20 | 19° 6 | 17°56 | 10°23 | 28°50 | F 29 |
| S 30 | 0 35 39 | 6♎59'01 | 7♉50 | 4♎43 | 4♍56 | 3♏15 | 14♏27 | 1♐ 9 | 4♒18 | 10♑38 | 24♊20 | 19♍ 4 | 17♍53 | 10♏30 | 28♑50 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8n21 | 3n24 | 2s12 | 12n49 | 1s13 | 19n38 | 0s29 | 5s12 | 0n15 | 13s45 | 0n55 | 18s17 | 1n47 | 19s42 | 0s39 | 22s15 | 0n48 | 16n35 | 6s46 | 4n19 | 4n12 | 10s21 | 13s 6 | 7n21 |
| S 2 | 7 59 | 7 47 | 3 21 | 13 0 | 0 55 | 19 26 | 0 25 | 5 28 | 0 15 | 13 48 | 0 55 | 18 18 | 1 46 | 19 43 | 0 39 | 22 15 | 0 48 | 16 35 | 6 46 | 4 19 | 4 13 | 10 22 | 13 7 | 7 20 |
| S 3 | 7 37 | 11 40 | 4 16 | 13 9 | 0 37 | 19 14 | 0 22 | 5 44 | 0 14 | 13 51 | 0 55 | 18 19 | 1 46 | 19 43 | 0 39 | 22 15 | 0 48 | 16 35 | 6 47 | 4 18 | 4 14 | 10 24 | 13 7 | 7 20 |
| M 4 | 7 15 | 14 48 | 4 55 | 13 14 | 0 20 | 19 1 | 0 18 | 6 0 | 0 13 | 13 54 | 0 54 | 18 20 | 1 46 | 19 43 | 0 39 | 22 15 | 0 48 | 16 35 | 6 47 | 4 18 | 4 15 | 10 26 | 13 8 | 7 20 |
| T 5 | 6 53 | 17 0 | 5 14 | 13 15 | 0 4 | 18 48 | 0 15 | 6 16 | 0 13 | 13 58 | 0 54 | 18 21 | 1 46 | 19 44 | 0 39 | 22 15 | 0 48 | 16 35 | 6 47 | 4 18 | 4 17 | 10 27 | 13 9 | 7 19 |
| W 6 | 6 30 | 18 9 | 5 15 | 13 12 | 0n11 | 18 34 | 0 11 | 6 32 | 0 12 | 14 1 | 0 54 | 18 21 | 1 45 | 19 44 | 0 39 | 22 16 | 0 48 | 16 35 | 6 47 | 4 18 | 4 18 | 10 29 | 13 10 | 7 19 |
| T 7 | 6 8 | 18 13 | 4 59 | 13 6 | 0 26 | 18 20 | 0 8 | 6 48 | 0 11 | 14 4 | 0 54 | 18 22 | 1 45 | 19 45 | 0 39 | 22 16 | 0 48 | 16 35 | 6 47 | 4 18 | 4 19 | 10 30 | 13 11 | 7 18 |
| F 8 | 5 45 | 17 15 | 4 25 | 12 56 | 0 39 | 18 5 | 0 4 | 7 3 | 0 11 | 14 8 | 0 54 | 18 23 | 1 45 | 19 45 | 0 39 | 22 16 | 0 48 | 16 35 | 6 47 | 4 19 | 4 20 | 10 32 | 13 12 | 7 18 |
| S 9 | 5 23 | 15 22 | 3 39 | 12 42 | 0 51 | 17 49 | 0 1 | 7 19 | 0 10 | 14 11 | 0 53 | 18 24 | 1 45 | 19 45 | 0 39 | 22 16 | 0 47 | 16 35 | 6 47 | 4 19 | 4 22 | 10 33 | 13 12 | 7 17 |
| S 10 | 5 0 | 12 44 | 2 42 | 12 25 | 1 2 | 17 34 | 0n 3 | 7 35 | 0 9 | 14 14 | 0 53 | 18 25 | 1 45 | 19 46 | 0 39 | 22 16 | 0 47 | 16 35 | 6 47 | 4 19 | 4 23 | 10 35 | 13 13 | 7 17 |
| M11 | 4 37 | 9 32 | 1 38 | 12 4 | 1 12 | 17 17 | 0 6 | 7 51 | 0 9 | 14 18 | 0 53 | 18 26 | 1 44 | 19 46 | 0 39 | 22 16 | 0 47 | 16 35 | 6 47 | 4 19 | 4 24 | 10 37 | 13 14 | 7 17 |
| T 12 | 4 14 | 5 57 | 0 30 | 11 40 | 1 20 | 17 0 | 0 9 | 8 6 | 0 8 | 14 21 | 0 53 | 18 27 | 1 44 | 19 46 | 0 39 | 22 16 | 0 47 | 16 34 | 6 47 | 4 19 | 4 25 | 10 38 | 13 15 | 7 16 |
| W13 | 3 51 | 2 10 | 0n38 | 11 13 | 1 28 | 16 43 | 0 13 | 8 22 | 0 7 | 14 24 | 0 53 | 18 28 | 1 44 | 19 47 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 19 | 4 27 | 10 40 | 13 15 | 7 16 |
| T 14 | 3 28 | 1s39 | 1 44 | 10 44 | 1 34 | 16 25 | 0 16 | 8 38 | 0 7 | 14 28 | 0 53 | 18 29 | 1 44 | 19 47 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 19 | 4 28 | 10 41 | 13 16 | 7 15 |
| F 15 | 3 5 | 5 21 | 2 44 | 10 12 | 1 39 | 16 6 | 0 19 | 8 53 | 0 6 | 14 31 | 0 52 | 18 30 | 1 43 | 19 47 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 19 | 4 29 | 10 43 | 13 17 | 7 15 |
| S 16 | 2 41 | 8 49 | 3 36 | 9 37 | 1 44 | 15 48 | 0 22 | 9 9 | 0 5 | 14 35 | 0 52 | 18 31 | 1 43 | 19 48 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 19 | 4 30 | 10 45 | 13 18 | 7 14 |
| S 17 | 2 18 | 11 54 | 4 19 | 9 0 | 1 47 | 15 28 | 0 26 | 9 24 | 0 5 | 14 38 | 0 52 | 18 32 | 1 43 | 19 48 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 19 | 4 32 | 10 46 | 13 18 | 7 14 |
| M18 | 1 55 | 14 30 | 4 51 | 8 22 | 1 49 | 15 8 | 0 29 | 9 40 | 0 4 | 14 42 | 0 52 | 18 33 | 1 43 | 19 48 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 20 | 4 33 | 10 48 | 13 19 | 7 13 |
| T 19 | 1 31 | 16 30 | 5 11 | 7 42 | 1 51 | 14 48 | 0 32 | 9 55 | 0 3 | 14 45 | 0 52 | 18 34 | 1 43 | 19 48 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 20 | 4 34 | 10 49 | 13 20 | 7 13 |
| W20 | 1 8 | 17 48 | 5 17 | 7 0 | 1 52 | 14 28 | 0 35 | 10 10 | 0 3 | 14 49 | 0 52 | 18 36 | 1 42 | 19 49 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 20 | 4 35 | 10 51 | 13 20 | 7 13 |
| T 21 | 0 45 | 18 19 | 5 9 | 6 17 | 1 51 | 14 7 | 0 37 | 10 26 | 0 2 | 14 52 | 0 51 | 18 37 | 1 42 | 19 49 | 0 39 | 22 16 | 0 47 | 16 34 | 6 48 | 4 20 | 4 37 | 10 52 | 13 21 | 7 12 |
| F 22 | 0 21 | 17 57 | 4 47 | 5 34 | 1 51 | 13 45 | 0 40 | 10 41 | 0 1 | 14 56 | 0 51 | 18 38 | 1 42 | 19 49 | 0 39 | 22 16 | 0 47 | 16 33 | 6 48 | 4 20 | 4 38 | 10 54 | 13 22 | 7 12 |
| S 23 | 0s 2 | 16 40 | 4 9 | 4 49 | 1 49 | 13 23 | 0 43 | 10 56 | 0 1 | 14 59 | 0 51 | 18 39 | 1 42 | 19 49 | 0 39 | 22 16 | 0 47 | 16 33 | 6 49 | 4 20 | 4 39 | 10 55 | 13 22 | 7 11 |
| S 24 | 0 26 | 14 27 | 3 18 | 4 4 | 1 47 | 13 1 | 0 46 | 11 11 | 0 0 | 15 3 | 0 51 | 18 40 | 1 42 | 19 50 | 0 39 | 22 17 | 0 47 | 16 33 | 6 49 | 4 19 | 4 40 | 10 57 | 13 23 | 7 11 |
| M25 | 0 49 | 11 21 | 2 13 | 3 18 | 1 45 | 12 38 | 0 48 | 11 26 | 0s 1 | 15 6 | 0 51 | 18 41 | 1 42 | 19 50 | 0 39 | 22 17 | 0 47 | 16 33 | 6 49 | 4 19 | 4 42 | 10 59 | 13 24 | 7 10 |
| T 26 | 1 13 | 7 31 | 0 59 | 2 32 | 1 41 | 12 15 | 0 51 | 11 41 | 0 1 | 15 10 | 0 51 | 18 42 | 1 41 | 19 50 | 0 39 | 22 17 | 0 47 | 16 33 | 6 49 | 4 19 | 4 43 | 11 0 | 13 24 | 7 10 |
| W27 | 1 36 | 3 7 | 0s21 | 1 45 | 1 38 | 11 52 | 0 54 | 11 56 | 0 2 | 15 13 | 0 50 | 18 43 | 1 41 | 19 50 | 0 39 | 22 17 | 0 47 | 16 33 | 6 49 | 4 19 | 4 44 | 11 2 | 13 25 | 7 9 |
| T 28 | 2 0 | 1n33 | 1 41 | 0 59 | 1 34 | 11 28 | 0 56 | 12 11 | 0 3 | 15 17 | 0 50 | 18 45 | 1 41 | 19 50 | 0 39 | 22 17 | 0 47 | 16 33 | 6 49 | 4 19 | 4 45 | 11 3 | 13 26 | 7 9 |
| F 29 | 2 23 | 6 10 | 2 56 | 0 12 | 1 30 | 11 4 | 0 59 | 12 26 | 0 3 | 15 21 | 0 50 | 18 46 | 1 41 | 19 50 | 0 39 | 22 17 | 0 47 | 16 33 | 6 49 | 4 19 | 4 47 | 11 5 | 13 26 | 7 8 |
| S 30 | 2s47 | 10n24 | 3s58 | 0s35 | 1n25 | 10n40 | 1n 1 | 12s41 | 0s 4 | 15s24 | 0n50 | 18s47 | 1n41 | 19s51 | 0s39 | 22s17 | 0n47 | 16n33 | 6s49 | 4n20 | 4n48 | 11s 6 | 13s27 | 7n 8 |

Julian Day Number = 2328336.5, Delta T = 34.57 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'54, Lahiri = 19°08'55Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## OCTOBER 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 39 36 | 7♎58'11 | 22♉46 | 6♎29 | 6♍ 9 | 3♏56 | 14♏38 | 1♐14 | 4°R17 | 10♑39 | 24°R20 | 19°R 1 | 17♍50 | 10♏36 | 28°R49 | S 1 |
| M 2 | 0 43 33 | 8°57'23 | 7♊27 | 8°14 | 7°22 | 4°37 | 14°50 | 1°19 | 4♒16 | 10°39 | 24♊20 | 18♍59 | 17°47 | 10°43 | 28♑49 | M 2 |
| T 3 | 0 47 29 | 9°56'37 | 21°48 | 9°59 | 8°35 | 5°19 | 15° 2 | 1°24 | 4°16 | 10°39 | 24°20 | 18°57 | 17°44 | 10°50 | 28°49 | T 3 |
| W 4 | 0 51 26 | 10°55'54 | 5♋47 | 11°43 | 9°48 | 6° 0 | 15°14 | 1°30 | 4°15 | 10°40 | 24°19 | 18°D56 | 17°40 | 10°56 | 28°48 | W 4 |
| T 5 | 0 55 22 | 11°55'13 | 19°22 | 13°26 | 11° 1 | 6°42 | 15°26 | 1°35 | 4°15 | 10°40 | 24°19 | 18°57 | 17°37 | 11° 3 | 28°48 | T 5 |
| F 6 | 0 59 19 | 12°54'34 | 2♌36 | 15° 8 | 12°14 | 7°23 | 15°38 | 1°40 | 4°14 | 10°41 | 24°19 | 18°58 | 17°34 | 11°10 | 28°48 | F 6 |
| S 7 | 1 3 15 | 13°53'58 | 15°31 | 16°49 | 13°27 | 8° 5 | 15°51 | 1°46 | 4°14 | 10°41 | 24°19 | 18°59 | 17°31 | 11°16 | 28°D48 | S 7 |
| S 8 | 1 7 12 | 14°53'24 | 28° 9 | 18°30 | 14°41 | 8°46 | 16° 3 | 1°51 | 4°14 | 10°42 | 24°18 | 19° 1 | 17°28 | 11°23 | 28°48 | S 8 |
| M 9 | 1 11 8 | 15°52'52 | 10♍33 | 20°10 | 15°54 | 9°28 | 16°15 | 1°57 | 4°14 | 10°42 | 24°18 | 19° 2 | 17°25 | 11°30 | 28°48 | M 9 |
| T 10 | 1 15 5 | 16°52'22 | 22°47 | 21°50 | 17° 8 | 10°10 | 16°27 | 2° 3 | 4°13 | 10°43 | 24°18 | 19°R 2 | 17°21 | 11°37 | 28°48 | T 10 |
| W11 | 1 19 2 | 17°51'54 | 4♎52 | 23°28 | 18°21 | 10°52 | 16°40 | 2° 8 | 4°13 | 10°43 | 24°17 | 19° 1 | 17°18 | 11°43 | 28°49 | W11 |
| T 12 | 1 22 58 | 18°51'29 | 16°50 | 25° 6 | 19°35 | 11°34 | 16°52 | 2°14 | 4°13 | 10°44 | 24°17 | 18°58 | 17°15 | 11°50 | 28°49 | T 12 |
| F 13 | 1 26 55 | 19°51'06 | 28°44 | 26°44 | 20°48 | 12°16 | 17° 5 | 2°20 | 4°13 | 10°45 | 24°16 | 18°54 | 17°12 | 11°57 | 28°49 | F 13 |
| S 14 | 1 30 51 | 20°50'44 | 10♏35 | 28°21 | 22° 2 | 12°58 | 17°17 | 2°26 | 4°D13 | 10°45 | 24°16 | 18°49 | 17° 9 | 12° 3 | 28°50 | S 14 |
| S 15 | 1 34 48 | 21°50'25 | 22°25 | 29°57 | 23°16 | 13°40 | 17°30 | 2°32 | 4°13 | 10°46 | 24°16 | 18°42 | 17° 5 | 12°10 | 28°50 | S 15 |
| M16 | 1 38 44 | 22°50'07 | 4♐16 | 1♏32 | 24°30 | 14°22 | 17°43 | 2°37 | 4°13 | 10°47 | 24°15 | 18°36 | 17° 2 | 12°17 | 28°51 | M16 |
| T 17 | 1 42 41 | 23°49'52 | 16°11 | 3° 7 | 25°43 | 15° 4 | 17°55 | 2°43 | 4°13 | 10°48 | 24°15 | 18°30 | 16°59 | 12°23 | 28°52 | T 17 |
| W18 | 1 46 37 | 24°49'38 | 28°13 | 4°42 | 26°57 | 15°47 | 18° 8 | 2°50 | 4°13 | 10°48 | 24°14 | 18°26 | 16°56 | 12°30 | 28°53 | W18 |
| T 19 | 1 50 34 | 25°49'26 | 10♑25 | 6°15 | 28°11 | 16°29 | 18°21 | 2°56 | 4°14 | 10°49 | 24°14 | 18°23 | 16°53 | 12°37 | 28°53 | T 19 |
| F 20 | 1 54 31 | 26°49'16 | 22°52 | 7°49 | 29°25 | 17°11 | 18°34 | 3° 2 | 4°14 | 10°50 | 24°13 | 18°D22 | 16°50 | 12°44 | 28°54 | F 20 |
| S 21 | 1 58 27 | 27°49'07 | 5♒38 | 9°21 | 0♎39 | 17°54 | 18°46 | 3° 8 | 4°14 | 10°51 | 24°12 | 18°22 | 16°46 | 12°50 | 28°55 | S 21 |
| S 22 | 2 2 24 | 28°49'00 | 18°47 | 10°53 | 1°54 | 18°37 | 18°59 | 3°14 | 4°15 | 10°52 | 24°12 | 18°23 | 16°43 | 12°57 | 28°56 | S 22 |
| M23 | 2 6 20 | 29°48'54 | 2♓22 | 12°25 | 3° 8 | 19°19 | 19°12 | 3°20 | 4°15 | 10°53 | 24°11 | 18°24 | 16°40 | 13° 4 | 28°57 | M23 |
| T 24 | 2 10 17 | 0♏48'51 | 16°25 | 13°56 | 4°22 | 20° 2 | 19°25 | 3°27 | 4°16 | 10°54 | 24°11 | 18°R25 | 16°37 | 13°10 | 28°59 | T 24 |
| W25 | 2 14 13 | 1°48'49 | 0♈55 | 15°27 | 5°36 | 20°45 | 19°38 | 3°33 | 4°16 | 10°55 | 24°10 | 18°25 | 16°34 | 13°17 | 29° 0 | W25 |
| T 26 | 2 18 10 | 2°48'48 | 15°50 | 16°57 | 6°51 | 21°27 | 19°51 | 3°39 | 4°17 | 10°56 | 24° 9 | 18°22 | 16°30 | 13°24 | 29° 1 | T 26 |
| F 27 | 2 22 6 | 3°48'50 | 1♉ 1 | 18°27 | 8° 5 | 22°10 | 20° 4 | 3°46 | 4°17 | 10°57 | 24° 9 | 18°17 | 16°27 | 13°30 | 29° 3 | F 27 |
| S 28 | 2 26 3 | 4°48'53 | 16°20 | 19°56 | 9°19 | 22°53 | 20°17 | 3°52 | 4°18 | 10°59 | 24° 8 | 18°11 | 16°24 | 13°37 | 29° 4 | S 28 |
| S 29 | 2 29 59 | 5°48'59 | 1♊35 | 21°24 | 10°34 | 23°36 | 20°30 | 3°59 | 4°19 | 11° 0 | 24° 7 | 18° 4 | 16°21 | 13°44 | 29° 6 | S 29 |
| M30 | 2 33 56 | 6°49'06 | 16°35 | 22°52 | 11°48 | 24°19 | 20°43 | 4° 5 | 4°20 | 11° 1 | 24° 6 | 17°56 | 16°18 | 13°51 | 29° 7 | M30 |
| T 31 | 2 37 53 | 7♏49'15 | 1♋13 | 24♏20 | 13♎ 3 | 25♏ 2 | 20♏57 | 4♐12 | 4♒20 | 11♑ 2 | 24♊ 6 | 17♍50 | 16♍15 | 13♏57 | 29♑ 9 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s10 | 13n56 | 4s43 | 1s21 | 1n20 | 10n15 | 1n 3 | 12s55 | 0s 4 | 15s28 | 0n50 | 18s48 | 1n40 | 19s51 | 0s39 | 22s17 | 0n47 | 16n32 | 6s49 | 4n21 | 4n49 | 11s 8 | 13s27 | 7n 7 |
| M 2 | 3 33 | 16 30 | 5 9 | 2 8 | 1 15 | 9 50 | 1 5 | 13 10 | 0 5 | 15 31 | 0 50 | 18 49 | 1 40 | 19 51 | 0 39 | 22 17 | 0 47 | 16 32 | 6 50 | 4 22 | 4 50 | 11 9 | 13 28 | 7 7 |
| T 3 | 3 57 | 17 59 | 5 15 | 2 54 | 1 9 | 9 25 | 1 8 | 13 24 | 0 6 | 15 35 | 0 50 | 18 51 | 1 40 | 19 51 | 0 39 | 22 17 | 0 47 | 16 32 | 6 50 | 4 23 | 4 52 | 11 11 | 13 29 | 7 6 |
| W 4 | 4 20 | 18 20 | 5 2 | 3 40 | 1 3 | 8 59 | 1 10 | 13 39 | 0 6 | 15 39 | 0 49 | 18 52 | 1 40 | 19 51 | 0 39 | 22 17 | 0 47 | 16 32 | 6 50 | 4 23 | 4 53 | 11 13 | 13 29 | 7 6 |
| T 5 | 4 43 | 17 35 | 4 32 | 4 26 | 0 57 | 8 33 | 1 12 | 13 53 | 0 7 | 15 42 | 0 49 | 18 53 | 1 40 | 19 51 | 0 39 | 22 17 | 0 47 | 16 32 | 6 50 | 4 23 | 4 54 | 11 14 | 13 30 | 7 5 |
| F 6 | 5 6 | 15 54 | 3 48 | 5 11 | 0 51 | 8 7 | 1 14 | 14 7 | 0 8 | 15 46 | 0 49 | 18 54 | 1 40 | 19 51 | 0 38 | 22 17 | 0 46 | 16 32 | 6 50 | 4 23 | 4 55 | 11 16 | 13 30 | 7 5 |
| S 7 | 5 30 | 13 26 | 2 54 | 5 56 | 0 45 | 7 41 | 1 16 | 14 21 | 0 8 | 15 50 | 0 49 | 18 56 | 1 39 | 19 51 | 0 38 | 22 17 | 0 46 | 16 32 | 6 50 | 4 22 | 4 56 | 11 17 | 13 31 | 7 4 |
| S 8 | 5 53 | 10 23 | 1 52 | 6 40 | 0 39 | 7 14 | 1 17 | 14 35 | 0 9 | 15 53 | 0 49 | 18 57 | 1 39 | 19 51 | 0 38 | 22 17 | 0 46 | 16 32 | 6 50 | 4 21 | 4 58 | 11 19 | 13 31 | 7 4 |
| M 9 | 6 16 | 6 54 | 0 46 | 7 24 | 0 32 | 6 47 | 1 19 | 14 49 | 0 10 | 15 57 | 0 49 | 18 58 | 1 39 | 19 51 | 0 38 | 22 17 | 0 46 | 16 32 | 6 50 | 4 21 | 4 59 | 11 20 | 13 32 | 7 3 |
| T 10 | 6 38 | 3 11 | 0n21 | 8 8 | 0 25 | 6 20 | 1 21 | 15 3 | 0 10 | 16 1 | 0 49 | 18 59 | 1 39 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 50 | 4 21 | 5 0 | 11 22 | 13 32 | 7 3 |
| W11 | 7 1 | 0s37 | 1 26 | 8 51 | 0 19 | 5 53 | 1 22 | 15 17 | 0 11 | 16 4 | 0 49 | 19 1 | 1 39 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 50 | 4 21 | 5 1 | 11 23 | 13 33 | 7 2 |
| T 12 | 7 24 | 4 22 | 2 26 | 9 33 | 0 12 | 5 25 | 1 24 | 15 30 | 0 11 | 16 8 | 0 48 | 19 2 | 1 39 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 51 | 4 22 | 5 3 | 11 25 | 13 33 | 7 1 |
| F 13 | 7 47 | 7 55 | 3 20 | 10 15 | 0 5 | 4 57 | 1 25 | 15 44 | 0 12 | 16 12 | 0 48 | 19 3 | 1 38 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 51 | 4 24 | 5 4 | 11 26 | 13 33 | 7 1 |
| S 14 | 8 9 | 11 8 | 4 5 | 10 56 | 0s 2 | 4 29 | 1 27 | 15 57 | 0 13 | 16 15 | 0 48 | 19 5 | 1 38 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 51 | 4 26 | 5 5 | 11 28 | 13 34 | 7 0 |
| S 15 | 8 31 | 13 54 | 4 39 | 11 36 | 0 8 | 4 1 | 1 28 | 16 11 | 0 13 | 16 19 | 0 48 | 19 6 | 1 38 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 51 | 4 28 | 5 6 | 11 29 | 13 34 | 7 0 |
| M16 | 8 54 | 16 6 | 5 1 | 12 16 | 0 15 | 3 33 | 1 29 | 16 24 | 0 14 | 16 22 | 0 48 | 19 7 | 1 38 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 51 | 4 31 | 5 8 | 11 31 | 13 35 | 6 59 |
| T 17 | 9 16 | 17 37 | 5 11 | 12 55 | 0 22 | 3 5 | 1 30 | 16 37 | 0 14 | 16 26 | 0 48 | 19 8 | 1 38 | 19 51 | 0 38 | 22 17 | 0 46 | 16 31 | 6 51 | 4 33 | 5 9 | 11 33 | 13 35 | 6 59 |
| W18 | 9 38 | 18 22 | 5 7 | 13 34 | 0 29 | 2 36 | 1 31 | 16 50 | 0 15 | 16 30 | 0 48 | 19 10 | 1 38 | 19 51 | 0 38 | 22 16 | 0 46 | 16 31 | 6 51 | 4 35 | 5 10 | 11 34 | 13 35 | 6 58 |
| T 19 | 10 0 | 18 17 | 4 48 | 14 11 | 0 36 | 2 8 | 1 32 | 17 3 | 0 16 | 16 33 | 0 48 | 19 11 | 1 38 | 19 51 | 0 38 | 22 16 | 0 46 | 16 30 | 6 51 | 4 36 | 5 11 | 11 36 | 13 36 | 6 58 |
| F 20 | 10 21 | 17 19 | 4 17 | 14 48 | 0 42 | 1 39 | 1 33 | 17 15 | 0 16 | 16 37 | 0 48 | 19 12 | 1 37 | 19 51 | 0 38 | 22 16 | 0 46 | 16 30 | 6 51 | 4 37 | 5 13 | 11 37 | 13 36 | 6 57 |
| S 21 | 10 43 | 15 29 | 3 31 | 15 24 | 0 49 | 1 10 | 1 34 | 17 28 | 0 17 | 16 41 | 0 47 | 19 14 | 1 37 | 19 51 | 0 38 | 22 16 | 0 46 | 16 30 | 6 51 | 4 37 | 5 14 | 11 39 | 13 36 | 6 57 |
| S 22 | 11 4 | 12 47 | 2 34 | 16 0 | 0 55 | 0 42 | 1 35 | 17 40 | 0 18 | 16 44 | 0 47 | 19 15 | 1 37 | 19 51 | 0 38 | 22 16 | 0 46 | 16 30 | 6 51 | 4 36 | 5 15 | 11 40 | 13 37 | 6 56 |
| M23 | 11 26 | 9 19 | 1 26 | 16 34 | 1 2 | 0 13 | 1 35 | 17 53 | 0 18 | 16 48 | 0 47 | 19 16 | 1 37 | 19 51 | 0 38 | 22 16 | 0 46 | 16 30 | 6 51 | 4 36 | 5 16 | 11 42 | 13 37 | 6 56 |
| T 24 | 11 47 | 5 12 | 0 11 | 17 8 | 1 8 | 0s16 | 1 36 | 18 5 | 0 19 | 16 52 | 0 47 | 19 18 | 1 37 | 19 51 | 0 38 | 22 16 | 0 46 | 16 30 | 6 52 | 4 35 | 5 18 | 11 43 | 13 37 | 6 55 |
| W25 | 12 7 | 0 40 | 1s 7 | 17 41 | 1 15 | 0 45 | 1 36 | 18 17 | 0 19 | 16 55 | 0 47 | 19 19 | 1 37 | 19 50 | 0 38 | 22 16 | 0 46 | 16 30 | 6 52 | 4 35 | 5 19 | 11 45 | 13 37 | 6 55 |
| T 26 | 12 28 | 4n 3 | 2 23 | 18 13 | 1 21 | 1 14 | 1 37 | 18 29 | 0 20 | 16 59 | 0 47 | 19 20 | 1 37 | 19 50 | 0 38 | 22 16 | 0 46 | 16 30 | 6 52 | 4 36 | 5 20 | 11 46 | 13 38 | 6 54 |
| F 27 | 12 49 | 8 34 | 3 30 | 18 44 | 1 27 | 1 43 | 1 37 | 18 40 | 0 21 | 17 2 | 0 47 | 19 22 | 1 36 | 19 50 | 0 38 | 22 16 | 0 46 | 16 30 | 6 52 | 4 38 | 5 21 | 11 48 | 13 38 | 6 54 |
| S 28 | 13 9 | 12 34 | 4 22 | 19 14 | 1 33 | 2 12 | 1 38 | 18 52 | 0 21 | 17 6 | 0 47 | 19 23 | 1 36 | 19 50 | 0 38 | 22 16 | 0 46 | 16 30 | 6 52 | 4 41 | 5 23 | 11 49 | 13 38 | 6 53 |
| S 29 | 13 29 | 15 42 | 4 55 | 19 44 | 1 39 | 2 41 | 1 38 | 19 3 | 0 22 | 17 9 | 0 47 | 19 24 | 1 36 | 19 50 | 0 38 | 22 16 | 0 46 | 16 29 | 6 52 | 4 44 | 5 24 | 11 51 | 13 38 | 6 53 |
| M30 | 13 49 | 17 42 | 5 7 | 20 12 | 1 44 | 3 10 | 1 38 | 19 15 | 0 22 | 17 13 | 0 47 | 19 26 | 1 36 | 19 49 | 0 38 | 22 16 | 0 46 | 16 29 | 6 52 | 4 47 | 5 25 | 11 52 | 13 39 | 6 52 |
| T 31 | 14s 9 | 18n29 | 4s59 | 20s39 | 1s49 | 3s39 | 1n38 | 19s26 | 0s23 | 17s17 | 0n46 | 19s27 | 1n36 | 19s49 | 0s38 | 22s16 | 0n46 | 16n29 | 6s52 | 4n49 | 5n26 | 11s54 | 13s39 | 6n52 |

Julian Day Number = 2328366.5, Delta T = 34.52 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'58, Lahiri = 19°08'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## NOVEMBER 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 41 49 | 8♏49'27 | 15♋23 | 25♏47 | 14♎17 | 25♏45 | 21♏10 | 4♐19 | 4♒21 | 11♑ 3 | 24°R 5 | 17°R45 | 16♍11 | 14♏ 4 | 29♑11 | W 1 |
| T 2 | 2 45 46 | 9°49'41 | 29° 5 | 27°13 | 15°32 | 26°28 | 21°23 | 4°25 | 4°22 | 11° 5 | 24♊ 4 | 17♍43 | 16° 8 | 14°11 | 29°12 | T 2 |
| F 3 | 2 49 42 | 10°49'56 | 12♌19 | 28°39 | 16°46 | 27°12 | 21°36 | 4°32 | 4°23 | 11° 6 | 24° 3 | 17°D42 | 16° 5 | 14°17 | 29°14 | F 3 |
| S 4 | 2 53 39 | 11°50'14 | 25° 9 | 0♐ 4 | 18° 1 | 27°55 | 21°49 | 4°39 | 4°24 | 11° 7 | 24° 3 | 17°43 | 16° 2 | 14°24 | 29°16 | S 4 |
| S 5 | 2 57 35 | 12°50'34 | 7♍38 | 1°29 | 19°16 | 28°38 | 22° 3 | 4°45 | 4°25 | 11° 9 | 24° 2 | 17°44 | 15°59 | 14°31 | 29°18 | S 5 |
| M 6 | 3 1 32 | 13°50'55 | 19°53 | 2°52 | 20°31 | 29°22 | 22°16 | 4°52 | 4°27 | 11°10 | 24° 1 | 17°R44 | 15°56 | 14°37 | 29°20 | M 6 |
| T 7 | 3 5 28 | 14°51'19 | 1♎56 | 4°15 | 21°45 | 0♐ 5 | 22°29 | 4°59 | 4°28 | 11°12 | 24° 0 | 17°43 | 15°52 | 14°44 | 29°22 | T 7 |
| W 8 | 3 9 25 | 15°51'44 | 13°52 | 5°37 | 23° 0 | 0°49 | 22°42 | 5° 6 | 4°29 | 11°13 | 23°59 | 17°40 | 15°49 | 14°51 | 29°25 | W 8 |
| T 9 | 3 13 22 | 16°52'11 | 25°44 | 6°58 | 24°15 | 1°33 | 22°56 | 5°12 | 4°30 | 11°15 | 23°58 | 17°33 | 15°46 | 14°58 | 29°27 | T 9 |
| F 10 | 3 17 18 | 17°52'40 | 7♏34 | 8°17 | 25°30 | 2°16 | 23° 9 | 5°19 | 4°32 | 11°16 | 23°57 | 17°24 | 15°43 | 15° 4 | 29°29 | F 10 |
| S 11 | 3 21 15 | 18°53'11 | 19°25 | 9°35 | 26°45 | 3° 0 | 23°22 | 5°26 | 4°33 | 11°18 | 23°56 | 17°13 | 15°40 | 15°11 | 29°32 | S 11 |
| S 12 | 3 25 11 | 19°53'43 | 1♐17 | 10°52 | 28° 0 | 3°44 | 23°36 | 5°33 | 4°35 | 11°19 | 23°55 | 17° 1 | 15°36 | 15°18 | 29°34 | S 12 |
| M13 | 3 29 8 | 20°54'17 | 13°13 | 12° 8 | 29°15 | 4°28 | 23°49 | 5°40 | 4°36 | 11°21 | 23°54 | 16°48 | 15°33 | 15°24 | 29°37 | M13 |
| T 14 | 3 33 4 | 21°54'52 | 25°13 | 13°21 | 0♏30 | 5°12 | 24° 3 | 5°47 | 4°38 | 11°22 | 23°53 | 16°36 | 15°30 | 15°31 | 29°39 | T 14 |
| W15 | 3 37 1 | 22°55'29 | 7♑20 | 14°32 | 1°45 | 5°56 | 24°16 | 5°54 | 4°39 | 11°24 | 23°52 | 16°26 | 15°27 | 15°38 | 29°42 | W15 |
| T 16 | 3 40 57 | 23°56'07 | 19°35 | 15°41 | 3° 0 | 6°40 | 24°29 | 6° 1 | 4°41 | 11°26 | 23°51 | 16°18 | 15°24 | 15°44 | 29°45 | T 16 |
| F 17 | 3 44 54 | 24°56'46 | 2♒ 3 | 16°47 | 4°15 | 7°24 | 24°43 | 6° 8 | 4°42 | 11°27 | 23°50 | 16°13 | 15°21 | 15°51 | 29°47 | F 17 |
| S 18 | 3 48 51 | 25°57'26 | 14°45 | 17°50 | 5°30 | 8° 8 | 24°56 | 6°15 | 4°44 | 11°29 | 23°49 | 16°10 | 15°17 | 15°58 | 29°50 | S 18 |
| S 19 | 3 52 47 | 26°58'07 | 27°47 | 18°50 | 6°45 | 8°52 | 25° 9 | 6°22 | 4°46 | 11°31 | 23°48 | 16°D10 | 15°14 | 16° 5 | 29°53 | S 19 |
| M20 | 3 56 44 | 27°58'50 | 11♓11 | 19°46 | 8° 0 | 9°36 | 25°23 | 6°29 | 4°48 | 11°33 | 23°47 | 16°R10 | 15°11 | 16°11 | 29°56 | M20 |
| T 21 | 4 0 40 | 28°59'33 | 25° 1 | 20°37 | 9°15 | 10°21 | 25°36 | 6°36 | 4°50 | 11°34 | 23°46 | 16°10 | 15° 8 | 16°18 | 29°59 | T 21 |
| W22 | 4 4 37 | 0♐ 0'18 | 9♈18 | 21°23 | 10°30 | 11° 5 | 25°50 | 6°43 | 4°52 | 11°36 | 23°45 | 16° 8 | 15° 5 | 16°25 | 0♒ 2 | W22 |
| T 23 | 4 8 33 | 1° 1'03 | 24° 0 | 22° 3 | 11°46 | 11°49 | 26° 3 | 6°50 | 4°53 | 11°38 | 23°44 | 16° 4 | 15° 2 | 16°31 | 0° 5 | T 23 |
| F 24 | 4 12 30 | 2° 1'50 | 9♉ 4 | 22°36 | 13° 1 | 12°34 | 26°16 | 6°57 | 4°55 | 11°40 | 23°43 | 15°57 | 14°58 | 16°38 | 0° 8 | F 24 |
| S 25 | 4 16 26 | 3° 2'37 | 24°20 | 23° 3 | 14°16 | 13°18 | 26°30 | 7° 4 | 4°57 | 11°42 | 23°42 | 15°47 | 14°55 | 16°45 | 0°11 | S 25 |
| S 26 | 4 20 23 | 4° 3'26 | 9♊38 | 23°21 | 15°31 | 14° 3 | 26°43 | 7°11 | 5° 0 | 11°44 | 23°41 | 15°36 | 14°52 | 16°52 | 0°15 | S 26 |
| M27 | 4 24 20 | 5° 4'16 | 24°47 | 23°R30 | 16°46 | 14°47 | 26°56 | 7°18 | 5° 2 | 11°45 | 23°40 | 15°24 | 14°49 | 16°58 | 0°18 | M27 |
| T 28 | 4 28 16 | 6° 5'08 | 9♋36 | 23°29 | 18° 2 | 15°32 | 27°10 | 7°25 | 5° 4 | 11°47 | 23°39 | 15°14 | 14°46 | 17° 5 | 0°21 | T 28 |
| W29 | 4 32 13 | 7° 6'01 | 23°58 | 23°18 | 19°17 | 16°17 | 27°23 | 7°32 | 5° 6 | 11°49 | 23°37 | 15° 6 | 14°42 | 17°12 | 0°25 | W29 |
| T 30 | 4 36 9 | 8♐ 6'55 | 7♌49 | 22♐56 | 20♏32 | 17♐ 2 | 27♏36 | 7♐39 | 5♒ 8 | 11♑51 | 23♊36 | 15♍ 0 | 14♍39 | 17♏18 | 0♒28 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14s28 | 18n 4 | 4s33 | 21s 6 | 1s55 | 4s 8 | 1n38 | 19s37 | 0s23 | 17s20 | 0n46 | 19s28 | 1n36 | 19s49 | 0s38 | 22s16 | 0n46 | 16n29 | 6s52 | 4n51 | 5n27 | 11s55 | 13s39 | 6n51 |
| T 2 | 14 47 | 16 36 | 3 51 | 21 31 | 2 0 | 4 37 | 1 38 | 19 47 | 0 24 | 17 24 | 0 46 | 19 30 | 1 36 | 19 49 | 0 38 | 22 16 | 0 46 | 16 29 | 6 52 | 4 52 | 5 29 | 11 57 | 13 39 | 6 51 |
| F 3 | 15 6 | 14 17 | 2 59 | 21 55 | 2 4 | 5 6 | 1 38 | 19 58 | 0 25 | 17 27 | 0 46 | 19 31 | 1 36 | 19 48 | 0 38 | 22 16 | 0 46 | 16 29 | 6 52 | 4 52 | 5 30 | 11 58 | 13 39 | 6 50 |
| S 4 | 15 25 | 11 18 | 1 58 | 22 18 | 2 9 | 5 35 | 1 37 | 20 8 | 0 25 | 17 31 | 0 46 | 19 32 | 1 36 | 19 48 | 0 38 | 22 16 | 0 45 | 16 29 | 6 52 | 4 52 | 5 31 | 12 0 | 13 39 | 6 50 |
| S 5 | 15 43 | 7 53 | 0 54 | 22 40 | 2 13 | 6 3 | 1 37 | 20 19 | 0 26 | 17 34 | 0 46 | 19 34 | 1 35 | 19 48 | 0 38 | 22 15 | 0 45 | 16 29 | 6 52 | 4 51 | 5 32 | 12 1 | 13 39 | 6 49 |
| M 6 | 16 1 | 4 11 | 0n11 | 23 0 | 2 17 | 6 32 | 1 37 | 20 29 | 0 26 | 17 38 | 0 46 | 19 35 | 1 35 | 19 48 | 0 38 | 22 15 | 0 45 | 16 29 | 6 52 | 4 51 | 5 34 | 12 3 | 13 39 | 6 49 |
| T 7 | 16 19 | 0 23 | 1 15 | 23 20 | 2 21 | 7 0 | 1 36 | 20 39 | 0 27 | 17 41 | 0 46 | 19 36 | 1 35 | 19 47 | 0 38 | 22 15 | 0 45 | 16 29 | 6 52 | 4 52 | 5 35 | 12 4 | 13 39 | 6 48 |
| W 8 | 16 37 | 3s24 | 2 15 | 23 38 | 2 24 | 7 29 | 1 36 | 20 48 | 0 27 | 17 45 | 0 46 | 19 38 | 1 35 | 19 47 | 0 38 | 22 15 | 0 45 | 16 28 | 6 53 | 4 53 | 5 36 | 12 6 | 13 39 | 6 48 |
| T 9 | 16 54 | 7 2 | 3 9 | 23 55 | 2 27 | 7 57 | 1 35 | 20 58 | 0 28 | 17 48 | 0 46 | 19 39 | 1 35 | 19 47 | 0 38 | 22 15 | 0 45 | 16 28 | 6 53 | 4 56 | 5 37 | 12 7 | 13 39 | 6 47 |
| F 10 | 17 11 | 10 23 | 3 53 | 24 11 | 2 29 | 8 25 | 1 34 | 21 7 | 0 29 | 17 51 | 0 46 | 19 40 | 1 35 | 19 46 | 0 38 | 22 15 | 0 45 | 16 28 | 6 53 | 4 59 | 5 39 | 12 9 | 13 39 | 6 47 |
| S 11 | 17 28 | 13 18 | 4 28 | 24 25 | 2 31 | 8 53 | 1 34 | 21 16 | 0 29 | 17 55 | 0 46 | 19 41 | 1 35 | 19 46 | 0 38 | 22 15 | 0 45 | 16 28 | 6 53 | 5 3 | 5 40 | 12 10 | 13 39 | 6 46 |
| S 12 | 17 45 | 15 42 | 4 51 | 24 38 | 2 33 | 9 20 | 1 33 | 21 25 | 0 30 | 17 58 | 0 45 | 19 43 | 1 35 | 19 45 | 0 37 | 22 15 | 0 45 | 16 28 | 6 53 | 5 8 | 5 41 | 12 12 | 13 39 | 6 46 |
| M13 | 18 1 | 17 26 | 5 2 | 24 50 | 2 34 | 9 48 | 1 32 | 21 34 | 0 30 | 18 2 | 0 45 | 19 44 | 1 35 | 19 45 | 0 37 | 22 15 | 0 45 | 16 28 | 6 53 | 5 13 | 5 42 | 12 13 | 13 39 | 6 46 |
| T 14 | 18 17 | 18 25 | 4 59 | 25 0 | 2 35 | 10 15 | 1 31 | 21 43 | 0 31 | 18 5 | 0 45 | 19 45 | 1 35 | 19 45 | 0 37 | 22 15 | 0 45 | 16 28 | 6 53 | 5 18 | 5 43 | 12 15 | 13 39 | 6 45 |
| W15 | 18 32 | 18 34 | 4 43 | 25 8 | 2 35 | 10 42 | 1 30 | 21 51 | 0 31 | 18 8 | 0 45 | 19 47 | 1 35 | 19 44 | 0 37 | 22 14 | 0 45 | 16 28 | 6 53 | 5 22 | 5 45 | 12 16 | 13 39 | 6 45 |
| T 16 | 18 47 | 17 52 | 4 14 | 25 16 | 2 34 | 11 8 | 1 29 | 21 59 | 0 32 | 18 12 | 0 45 | 19 48 | 1 34 | 19 44 | 0 37 | 22 14 | 0 45 | 16 28 | 6 53 | 5 25 | 5 46 | 12 18 | 13 39 | 6 44 |
| F 17 | 19 2 | 16 18 | 3 32 | 25 21 | 2 33 | 11 35 | 1 28 | 22 7 | 0 33 | 18 15 | 0 45 | 19 49 | 1 34 | 19 43 | 0 37 | 22 14 | 0 45 | 16 28 | 6 53 | 5 27 | 5 47 | 12 19 | 13 39 | 6 44 |
| S 18 | 19 17 | 13 54 | 2 39 | 25 25 | 2 30 | 12 1 | 1 27 | 22 15 | 0 33 | 18 18 | 0 45 | 19 50 | 1 34 | 19 43 | 0 37 | 22 14 | 0 45 | 16 28 | 6 53 | 5 28 | 5 48 | 12 21 | 13 39 | 6 43 |
| S 19 | 19 31 | 10 46 | 1 36 | 25 28 | 2 28 | 12 27 | 1 25 | 22 22 | 0 34 | 18 22 | 0 45 | 19 52 | 1 34 | 19 43 | 0 37 | 22 14 | 0 45 | 16 28 | 6 53 | 5 28 | 5 50 | 12 22 | 13 38 | 6 43 |
| M20 | 19 45 | 6 59 | 0 26 | 25 28 | 2 24 | 12 53 | 1 24 | 22 29 | 0 34 | 18 25 | 0 45 | 19 53 | 1 34 | 19 42 | 0 37 | 22 14 | 0 45 | 16 28 | 6 53 | 5 28 | 5 51 | 12 24 | 13 38 | 6 42 |
| T 21 | 19 58 | 2 42 | 0s47 | 25 28 | 2 19 | 13 18 | 1 23 | 22 37 | 0 35 | 18 28 | 0 45 | 19 54 | 1 34 | 19 42 | 0 37 | 22 14 | 0 45 | 16 27 | 6 53 | 5 28 | 5 52 | 12 25 | 13 38 | 6 42 |
| W22 | 20 11 | 1n52 | 1 59 | 25 25 | 2 13 | 13 43 | 1 21 | 22 43 | 0 35 | 18 31 | 0 45 | 19 55 | 1 34 | 19 41 | 0 37 | 22 14 | 0 45 | 16 27 | 6 53 | 5 29 | 5 53 | 12 27 | 13 38 | 6 42 |
| T 23 | 20 24 | 6 27 | 3 6 | 25 21 | 2 6 | 14 7 | 1 20 | 22 50 | 0 36 | 18 35 | 0 45 | 19 57 | 1 34 | 19 41 | 0 37 | 22 13 | 0 45 | 16 27 | 6 53 | 5 30 | 5 55 | 12 28 | 13 38 | 6 41 |
| F 24 | 20 36 | 10 44 | 4 1 | 25 14 | 1 58 | 14 32 | 1 18 | 22 56 | 0 36 | 18 38 | 0 45 | 19 58 | 1 34 | 19 40 | 0 37 | 22 13 | 0 45 | 16 27 | 6 53 | 5 33 | 5 56 | 12 29 | 13 37 | 6 41 |
| S 25 | 20 48 | 14 21 | 4 40 | 25 7 | 1 49 | 14 56 | 1 17 | 23 3 | 0 37 | 18 41 | 0 45 | 19 59 | 1 34 | 19 40 | 0 37 | 22 13 | 0 45 | 16 27 | 6 53 | 5 37 | 5 57 | 12 31 | 13 37 | 6 40 |
| S 26 | 21 0 | 17 0 | 4 59 | 24 57 | 1 38 | 15 19 | 1 15 | 23 9 | 0 37 | 18 44 | 0 45 | 20 0 | 1 34 | 19 39 | 0 37 | 22 13 | 0 45 | 16 27 | 6 53 | 5 41 | 5 58 | 12 32 | 13 37 | 6 40 |
| M27 | 21 11 | 18 26 | 4 57 | 24 45 | 1 26 | 15 42 | 1 13 | 23 14 | 0 38 | 18 47 | 0 45 | 20 2 | 1 34 | 19 39 | 0 37 | 22 13 | 0 45 | 16 27 | 6 53 | 5 46 | 5 59 | 12 34 | 13 37 | 6 40 |
| T 28 | 21 22 | 18 34 | 4 34 | 24 31 | 1 12 | 16 5 | 1 11 | 23 20 | 0 38 | 18 50 | 0 44 | 20 3 | 1 34 | 19 38 | 0 37 | 22 13 | 0 45 | 16 27 | 6 53 | 5 50 | 6 1 | 12 35 | 13 36 | 6 39 |
| W29 | 21 32 | 17 30 | 3 55 | 24 16 | 0 57 | 16 28 | 1 10 | 23 25 | 0 39 | 18 53 | 0 44 | 20 4 | 1 34 | 19 37 | 0 37 | 22 13 | 0 45 | 16 27 | 6 53 | 5 53 | 6 2 | 12 37 | 13 36 | 6 39 |
| T 30 | 21s42 | 15n24 | 3s 3 | 23s58 | 0s41 | 16s49 | 1n 8 | 23s30 | 0s39 | 18s56 | 0n44 | 20s 5 | 1n34 | 19s37 | 0s37 | 22s12 | 0n45 | 16n27 | 6s53 | 5n55 | 6n 3 | 12s38 | 13s36 | 6n38 |

Julian Day Number = 2328397.5, Delta T = 34.46 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'03, Lahiri = 19°09'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1662
# geocentric

## DECEMBER 1662 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 40 6 | 9♐ 7'50 | 21♌11 | 22°R23 | 21♏47 | 17♐46 | 27♏49 | 7♐47 | 5♒11 | 11♑53 | 23°R35 | 14°R58 | 14♍36 | 17♏25 | 0♒32 | F 1 |
| S 2 | 4 44 2 | 10° 8'46 | 4♍ 5 | 21♐38 | 23° 3 | 18°31 | 28° 3 | 7°54 | 5°13 | 11°55 | 23♊34 | 14♍57 | 14°33 | 17°32 | 0°35 | S 2 |
| S 3 | 4 47 59 | 11° 9'44 | 16°35 | 20°43 | 24°18 | 19°16 | 28°16 | 8° 1 | 5°15 | 11°57 | 23°33 | 14°57 | 14°30 | 17°39 | 0°39 | S 3 |
| M 4 | 4 51 55 | 12°10'43 | 28°48 | 19°38 | 25°33 | 20° 1 | 28°29 | 8° 8 | 5°18 | 11°59 | 23°32 | 14°56 | 14°27 | 17°45 | 0°43 | M 4 |
| T 5 | 4 55 52 | 13°11'43 | 10♎48 | 18°25 | 26°49 | 20°46 | 28°42 | 8°15 | 5°20 | 12° 1 | 23°31 | 14°54 | 14°23 | 17°52 | 0°46 | T 5 |
| W 6 | 4 59 49 | 14°12'44 | 22°41 | 17° 6 | 28° 4 | 21°31 | 28°56 | 8°22 | 5°23 | 12° 3 | 23°29 | 14°50 | 14°20 | 17°59 | 0°50 | W 6 |
| T 7 | 5 3 45 | 15°13'46 | 4♏30 | 15°44 | 29°19 | 22°16 | 29° 9 | 8°29 | 5°25 | 12° 5 | 23°28 | 14°42 | 14°17 | 18° 5 | 0°54 | T 7 |
| F 8 | 5 7 42 | 16°14'50 | 16°20 | 14°21 | 0♐35 | 23° 2 | 29°22 | 8°36 | 5°28 | 12° 7 | 23°27 | 14°32 | 14°14 | 18°12 | 0°58 | F 8 |
| S 9 | 5 11 38 | 17°15'54 | 28°12 | 13° 0 | 1°50 | 23°47 | 29°35 | 8°43 | 5°30 | 12°10 | 23°26 | 14°19 | 14°11 | 18°19 | 1° 2 | S 9 |
| S 10 | 5 15 35 | 18°16'59 | 10♐ 9 | 11°44 | 3° 6 | 24°32 | 29°48 | 8°50 | 5°33 | 12°12 | 23°25 | 14° 4 | 14° 8 | 18°25 | 1° 5 | S 10 |
| M11 | 5 19 31 | 19°18'04 | 22°13 | 10°36 | 4°21 | 25°18 | 0♐ 1 | 8°57 | 5°35 | 12°14 | 23°23 | 13°49 | 14° 4 | 18°32 | 1° 9 | M11 |
| T 12 | 5 23 28 | 20°19'11 | 4♑24 | 9°35 | 5°36 | 26° 3 | 0°14 | 9° 4 | 5°38 | 12°16 | 23°22 | 13°35 | 14° 1 | 18°39 | 1°13 | T 12 |
| W13 | 5 27 24 | 21°20'18 | 16°42 | 8°45 | 6°52 | 26°48 | 0°27 | 9°11 | 5°41 | 12°18 | 23°21 | 13°22 | 13°58 | 18°46 | 1°17 | W13 |
| T 14 | 5 31 21 | 22°21'25 | 29° 9 | 8° 6 | 8° 7 | 27°34 | 0°40 | 9°18 | 5°44 | 12°20 | 23°20 | 13°13 | 13°55 | 18°52 | 1°22 | T 14 |
| F 15 | 5 35 18 | 23°22'33 | 11♒46 | 7°38 | 9°23 | 28°19 | 0°53 | 9°25 | 5°46 | 12°22 | 23°19 | 13° 6 | 13°52 | 18°59 | 1°26 | F 15 |
| S 16 | 5 39 14 | 24°23'41 | 24°36 | 7°20 | 10°38 | 29° 5 | 1° 6 | 9°32 | 5°49 | 12°25 | 23°18 | 13° 3 | 13°48 | 19° 6 | 1°30 | S 16 |
| S 17 | 5 43 11 | 25°24'49 | 7♓39 | 7°D13 | 11°53 | 29°51 | 1°19 | 9°39 | 5°52 | 12°27 | 23°16 | 13°D 1 | 13°45 | 19°12 | 1°34 | S 17 |
| M18 | 5 47 7 | 26°25'58 | 21° 0 | 7°16 | 13° 9 | 0♑36 | 1°31 | 9°46 | 5°55 | 12°29 | 23°15 | 13°R 1 | 13°42 | 19°19 | 1°38 | M18 |
| T 19 | 5 51 4 | 27°27'06 | 4♈41 | 7°28 | 14°24 | 1°22 | 1°44 | 9°53 | 5°58 | 12°31 | 23°14 | 13° 1 | 13°39 | 19°26 | 1°42 | T 19 |
| W20 | 5 55 0 | 28°28'15 | 18°43 | 7°48 | 15°40 | 2° 8 | 1°57 | 10° 0 | 6° 1 | 12°33 | 23°13 | 13° 0 | 13°36 | 19°33 | 1°47 | W20 |
| T 21 | 5 58 57 | 29°29'23 | 3♉ 6 | 8°16 | 16°55 | 2°53 | 2°10 | 10° 6 | 6° 4 | 12°36 | 23°12 | 12°56 | 13°33 | 19°39 | 1°51 | T 21 |
| F 22 | 6 2 53 | 0♑30'32 | 17°49 | 8°51 | 18°11 | 3°39 | 2°22 | 10°13 | 6° 7 | 12°38 | 23°10 | 12°49 | 13°29 | 19°46 | 1°55 | F 22 |
| S 23 | 6 6 50 | 1°31'40 | 2♊45 | 9°32 | 19°26 | 4°25 | 2°35 | 10°20 | 6°10 | 12°40 | 23° 9 | 12°41 | 13°26 | 19°53 | 2° 0 | S 23 |
| S 24 | 6 10 47 | 2°32'49 | 17°46 | 10°18 | 20°41 | 5°11 | 2°47 | 10°27 | 6°13 | 12°42 | 23° 8 | 12°30 | 13°23 | 19°59 | 2° 4 | S 24 |
| M25 | 6 14 43 | 3°33'58 | 2♋44 | 11° 9 | 21°57 | 5°57 | 3° 0 | 10°33 | 6°16 | 12°45 | 23° 7 | 12°19 | 13°20 | 20° 6 | 2° 9 | M25 |
| T 26 | 6 18 40 | 4°35'07 | 17°27 | 12° 4 | 23°12 | 6°43 | 3°12 | 10°40 | 6°19 | 12°47 | 23° 6 | 12° 9 | 13°17 | 20°13 | 2°13 | T 26 |
| W27 | 6 22 36 | 5°36'16 | 1♌50 | 13° 3 | 24°28 | 7°29 | 3°24 | 10°47 | 6°22 | 12°49 | 23° 5 | 12° 1 | 13°14 | 20°20 | 2°18 | W27 |
| T 28 | 6 26 33 | 6°37'25 | 15°46 | 14° 5 | 25°43 | 8°15 | 3°37 | 10°53 | 6°25 | 12°51 | 23° 3 | 11°55 | 13°10 | 20°26 | 2°22 | T 28 |
| F 29 | 6 30 29 | 7°38'35 | 29°13 | 15°10 | 26°59 | 9° 1 | 3°49 | 11° 0 | 6°28 | 12°54 | 23° 2 | 11°52 | 13° 7 | 20°33 | 2°27 | F 29 |
| S 30 | 6 34 26 | 8°39'44 | 12♍13 | 16°18 | 28°14 | 9°47 | 4° 1 | 11° 7 | 6°31 | 12°56 | 23° 1 | 11°D52 | 13° 4 | 20°40 | 2°31 | S 30 |
| S 31 | 6 38 23 | 9♑40'54 | 24♍50 | 17♐28 | 29♐29 | 10♑33 | 4♐13 | 11♐13 | 6♒35 | 12♑58 | 23♊ 0 | 11♍52 | 13♍ 1 | 20♏46 | 2♒36 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s51 | 12n32 | 2s 2 | 23s39 | 0s23 | 17s11 | 1n 6 | 23s35 | 0s40 | 18s59 | 0n44 | 20s 6 | 1n33 | 19s36 | 0s37 | 22s12 | 0n45 | 16n27 | 6s53 | 5n56 | 6n 4 | 12s40 | 13s35 | 6n38 |
| S 2 | 22 1 | 9 9 | 0 57 | 23 17 | 0 4 | 17 32 | 1 4 | 23 39 | 0 40 | 19 2 | 0 44 | 20 8 | 1 33 | 19 36 | 0 37 | 22 12 | 0 45 | 16 27 | 6 53 | 5 56 | 6 6 | 12 41 | 13 35 | 6 38 |
| S 3 | 22 9 | 5 26 | 0n 9 | 22 54 | 0n15 | 17 53 | 1 2 | 23 44 | 0 41 | 19 5 | 0 44 | 20 9 | 1 33 | 19 35 | 0 37 | 22 12 | 0 45 | 16 27 | 6 53 | 5 56 | 6 7 | 12 43 | 13 34 | 6 37 |
| M 4 | 22 17 | 1 35 | 1 13 | 22 29 | 0 36 | 18 13 | 1 0 | 23 48 | 0 41 | 19 8 | 0 44 | 20 10 | 1 33 | 19 35 | 0 37 | 22 12 | 0 45 | 16 27 | 6 53 | 5 57 | 6 8 | 12 44 | 13 34 | 6 37 |
| T 5 | 22 25 | 2s15 | 2 12 | 22 3 | 0 56 | 18 32 | 0 58 | 23 51 | 0 42 | 19 11 | 0 44 | 20 11 | 1 33 | 19 34 | 0 37 | 22 12 | 0 45 | 16 27 | 6 53 | 5 57 | 6 9 | 12 46 | 13 34 | 6 37 |
| W 6 | 22 33 | 5 58 | 3 5 | 21 36 | 1 16 | 18 51 | 0 56 | 23 55 | 0 42 | 19 14 | 0 44 | 20 12 | 1 33 | 19 33 | 0 37 | 22 12 | 0 45 | 16 27 | 6 53 | 5 59 | 6 11 | 12 47 | 13 33 | 6 36 |
| T 7 | 22 40 | 9 26 | 3 50 | 21 8 | 1 35 | 19 10 | 0 54 | 23 58 | 0 43 | 19 17 | 0 44 | 20 13 | 1 33 | 19 33 | 0 37 | 22 11 | 0 45 | 16 27 | 6 53 | 6 2 | 6 12 | 12 48 | 13 33 | 6 36 |
| F 8 | 22 46 | 12 31 | 4 25 | 20 42 | 1 53 | 19 28 | 0 52 | 24 1 | 0 43 | 19 20 | 0 44 | 20 14 | 1 33 | 19 32 | 0 37 | 22 11 | 0 45 | 16 27 | 6 53 | 6 6 | 6 13 | 12 50 | 13 32 | 6 36 |
| S 9 | 22 52 | 15 7 | 4 48 | 20 16 | 2 9 | 19 45 | 0 49 | 24 4 | 0 44 | 19 23 | 0 44 | 20 16 | 1 33 | 19 31 | 0 37 | 22 11 | 0 45 | 16 27 | 6 53 | 6 11 | 6 14 | 12 51 | 13 32 | 6 35 |
| S 10 | 22 58 | 17 5 | 4 59 | 19 53 | 2 22 | 20 2 | 0 47 | 24 6 | 0 44 | 19 26 | 0 44 | 20 17 | 1 33 | 19 31 | 0 37 | 22 11 | 0 45 | 16 27 | 6 53 | 6 17 | 6 15 | 12 53 | 13 31 | 6 35 |
| M11 | 23 3 | 18 19 | 4 56 | 19 32 | 2 34 | 20 19 | 0 45 | 24 9 | 0 45 | 19 28 | 0 44 | 20 18 | 1 33 | 19 30 | 0 37 | 22 11 | 0 45 | 16 27 | 6 53 | 6 23 | 6 17 | 12 54 | 13 31 | 6 35 |
| T 12 | 23 8 | 18 44 | 4 40 | 19 14 | 2 43 | 20 34 | 0 43 | 24 10 | 0 45 | 19 31 | 0 44 | 20 19 | 1 33 | 19 29 | 0 37 | 22 10 | 0 45 | 16 27 | 6 53 | 6 28 | 6 18 | 12 56 | 13 30 | 6 34 |
| W13 | 23 12 | 18 17 | 4 11 | 19 0 | 2 50 | 20 50 | 0 40 | 24 12 | 0 46 | 19 34 | 0 44 | 20 20 | 1 33 | 19 29 | 0 37 | 22 10 | 0 44 | 16 27 | 6 53 | 6 33 | 6 19 | 12 57 | 13 30 | 6 34 |
| T 14 | 23 16 | 16 57 | 3 30 | 18 50 | 2 54 | 21 4 | 0 38 | 24 14 | 0 46 | 19 37 | 0 44 | 20 21 | 1 33 | 19 28 | 0 37 | 22 10 | 0 44 | 16 27 | 6 53 | 6 37 | 6 20 | 12 59 | 13 29 | 6 34 |
| F 15 | 23 19 | 14 46 | 2 37 | 18 43 | 2 57 | 21 18 | 0 36 | 24 15 | 0 47 | 19 39 | 0 44 | 20 22 | 1 33 | 19 27 | 0 37 | 22 10 | 0 44 | 16 27 | 6 53 | 6 39 | 6 22 | 13 0 | 13 28 | 6 33 |
| S 16 | 23 22 | 11 50 | 1 36 | 18 39 | 2 58 | 21 32 | 0 33 | 24 16 | 0 47 | 19 42 | 0 44 | 20 23 | 1 33 | 19 27 | 0 37 | 22 10 | 0 44 | 16 27 | 6 53 | 6 40 | 6 23 | 13 1 | 13 28 | 6 33 |
| S 17 | 23 24 | 8 16 | 0 28 | 18 39 | 2 57 | 21 44 | 0 31 | 24 16 | 0 47 | 19 45 | 0 44 | 20 24 | 1 33 | 19 26 | 0 37 | 22 10 | 0 44 | 16 27 | 6 53 | 6 41 | 6 24 | 13 3 | 13 27 | 6 33 |
| M18 | 23 26 | 4 13 | 0s42 | 18 42 | 2 54 | 21 56 | 0 29 | 24 17 | 0 48 | 19 47 | 0 44 | 20 25 | 1 33 | 19 25 | 0 37 | 22 9 | 0 44 | 16 27 | 6 52 | 6 41 | 6 25 | 13 4 | 13 27 | 6 33 |
| T 19 | 23 27 | 0n 9 | 1 52 | 18 47 | 2 50 | 22 8 | 0 26 | 24 17 | 0 48 | 19 50 | 0 44 | 20 26 | 1 33 | 19 24 | 0 37 | 22 9 | 0 44 | 16 27 | 6 52 | 6 41 | 6 26 | 13 6 | 13 26 | 6 32 |
| W20 | 23 28 | 4 37 | 2 57 | 18 55 | 2 46 | 22 19 | 0 24 | 24 17 | 0 49 | 19 52 | 0 44 | 20 27 | 1 33 | 19 24 | 0 37 | 22 9 | 0 44 | 16 27 | 6 52 | 6 41 | 6 28 | 13 7 | 13 25 | 6 32 |
| T 21 | 23 29 | 8 55 | 3 53 | 19 5 | 2 40 | 22 29 | 0 21 | 24 16 | 0 49 | 19 55 | 0 44 | 20 28 | 1 33 | 19 23 | 0 37 | 22 9 | 0 44 | 16 27 | 6 52 | 6 43 | 6 29 | 13 9 | 13 25 | 6 32 |
| F 22 | 23 29 | 12 47 | 4 34 | 19 17 | 2 34 | 22 38 | 0 19 | 24 15 | 0 50 | 19 57 | 0 44 | 20 29 | 1 33 | 19 22 | 0 37 | 22 9 | 0 44 | 16 27 | 6 52 | 6 45 | 6 30 | 13 10 | 13 24 | 6 32 |
| S 23 | 23 28 | 15 53 | 4 57 | 19 30 | 2 27 | 22 47 | 0 17 | 24 14 | 0 50 | 20 0 | 0 44 | 20 30 | 1 33 | 19 21 | 0 37 | 22 8 | 0 44 | 16 27 | 6 52 | 6 49 | 6 31 | 13 11 | 13 23 | 6 31 |
| S 24 | 23 27 | 17 56 | 5 1 | 19 44 | 2 20 | 22 55 | 0 14 | 24 13 | 0 51 | 20 2 | 0 44 | 20 31 | 1 33 | 19 21 | 0 37 | 22 8 | 0 44 | 16 27 | 6 52 | 6 53 | 6 33 | 13 13 | 13 22 | 6 31 |
| M25 | 23 26 | 18 44 | 4 43 | 19 58 | 2 12 | 23 2 | 0 12 | 24 12 | 0 51 | 20 5 | 0 44 | 20 32 | 1 33 | 19 20 | 0 37 | 22 8 | 0 44 | 16 27 | 6 52 | 6 57 | 6 34 | 13 14 | 13 22 | 6 31 |
| T 26 | 23 24 | 18 15 | 4 7 | 20 14 | 2 4 | 23 9 | 0 9 | 24 10 | 0 51 | 20 7 | 0 44 | 20 33 | 1 33 | 19 19 | 0 37 | 22 8 | 0 44 | 16 27 | 6 52 | 7 1 | 6 35 | 13 16 | 13 21 | 6 31 |
| W27 | 23 22 | 16 36 | 3 16 | 20 29 | 1 56 | 23 15 | 0 7 | 24 8 | 0 52 | 20 10 | 0 44 | 20 34 | 1 33 | 19 18 | 0 37 | 22 8 | 0 44 | 16 27 | 6 52 | 7 4 | 6 36 | 13 17 | 13 20 | 6 30 |
| T 28 | 23 19 | 14 0 | 2 14 | 20 45 | 1 47 | 23 20 | 0 4 | 24 5 | 0 52 | 20 12 | 0 44 | 20 35 | 1 33 | 19 17 | 0 37 | 22 7 | 0 44 | 16 27 | 6 52 | 7 6 | 6 37 | 13 19 | 13 19 | 6 30 |
| F 29 | 23 16 | 10 43 | 1 7 | 21 1 | 1 39 | 23 25 | 0 2 | 24 3 | 0 53 | 20 14 | 0 44 | 20 36 | 1 33 | 19 17 | 0 37 | 22 7 | 0 44 | 16 27 | 6 52 | 7 7 | 6 39 | 13 20 | 13 19 | 6 30 |
| S 30 | 23 12 | 7 1 | 0n 2 | 21 17 | 1 30 | 23 29 | 0s 1 | 24 0 | 0 53 | 20 17 | 0 44 | 20 37 | 1 33 | 19 16 | 0 37 | 22 7 | 0 44 | 16 27 | 6 52 | 7 8 | 6 40 | 13 21 | 13 18 | 6 30 |
| S 31 | 23s 8 | 3n 7 | 1n 9 | 21s32 | 1n21 | 23s32 | 0s 3 | 23s57 | 0s53 | 20s19 | 0n44 | 20s38 | 1n33 | 19s15 | 0s37 | 22s 7 | 0n44 | 16n27 | 6s51 | 7n 7 | 6n41 | 13s23 | 13s17 | 6n30 |

Julian Day Number = 2328427.5, Delta T = 34.41 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'07, Lahiri = 19°09'07Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## JANUARY 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 42 19 | 10♑42'04 | 7♎ 7 | 18♐41 | 0♑45 | 11♑20 | 4♐25 | 11♐20 | 6♒38 | 13♑ 0 | 22°R59 | 11°R53 | 12♍58 | 20♏53 | 2♒41 | M 1 |
| T 2 | 6 46 16 | 11°43'14 | 19° 9 | 19°55 | 2° 0 | 12° 6 | 4°37 | 11°26 | 6°41 | 13° 3 | 22♊58 | 11♍52 | 12°54 | 21° 0 | 2°45 | T 2 |
| W 3 | 6 50 12 | 12°44'24 | 1♏ 3 | 21°11 | 3°16 | 12°52 | 4°49 | 11°32 | 6°44 | 13° 5 | 22°57 | 11°50 | 12°51 | 21° 7 | 2°50 | W 3 |
| T 4 | 6 54 9 | 13°45'34 | 12°53 | 22°29 | 4°31 | 13°39 | 5° 1 | 11°39 | 6°48 | 13° 7 | 22°55 | 11°46 | 12°48 | 21°13 | 2°54 | T 4 |
| F 5 | 6 58 5 | 14°46'45 | 24°44 | 23°47 | 5°47 | 14°25 | 5°13 | 11°45 | 6°51 | 13°10 | 22°54 | 11°39 | 12°45 | 21°20 | 2°59 | F 5 |
| S 6 | 7 2 2 | 15°47'55 | 6♐39 | 25° 8 | 7° 2 | 15°11 | 5°25 | 11°51 | 6°54 | 13°12 | 22°53 | 11°30 | 12°42 | 21°27 | 3° 4 | S 6 |
| S 7 | 7 5 58 | 16°49'05 | 18°42 | 26°29 | 8°18 | 15°58 | 5°37 | 11°58 | 6°58 | 13°14 | 22°52 | 11°20 | 12°39 | 21°33 | 3° 9 | S 7 |
| M 8 | 7 9 55 | 17°50'14 | 0♑54 | 27°51 | 9°33 | 16°44 | 5°48 | 12° 4 | 7° 1 | 13°16 | 22°51 | 11° 9 | 12°35 | 21°40 | 3°13 | M 8 |
| T 9 | 7 13 52 | 18°51'24 | 13°17 | 29°14 | 10°48 | 17°31 | 6° 0 | 12°10 | 7° 4 | 13°19 | 22°50 | 10°58 | 12°32 | 21°47 | 3°18 | T 9 |
| W10 | 7 17 48 | 19°52'33 | 25°51 | 0♑39 | 12° 4 | 18°17 | 6°11 | 12°16 | 7° 8 | 13°21 | 22°49 | 10°50 | 12°29 | 21°54 | 3°23 | W10 |
| T 11 | 7 21 45 | 20°53'42 | 8♒36 | 2° 4 | 13°19 | 19° 4 | 6°23 | 12°22 | 7°11 | 13°23 | 22°48 | 10°43 | 12°26 | 22° 0 | 3°28 | T 11 |
| F 12 | 7 25 41 | 21°54'49 | 21°33 | 3°30 | 14°35 | 19°51 | 6°34 | 12°28 | 7°14 | 13°25 | 22°47 | 10°38 | 12°23 | 22° 7 | 3°33 | F 12 |
| S 13 | 7 29 38 | 22°55'57 | 4♓40 | 4°56 | 15°50 | 20°37 | 6°45 | 12°34 | 7°18 | 13°28 | 22°46 | 10°D37 | 12°20 | 22°14 | 3°37 | S 13 |
| S 14 | 7 33 34 | 23°57'03 | 17°59 | 6°24 | 17° 6 | 21°24 | 6°56 | 12°40 | 7°21 | 13°30 | 22°45 | 10°37 | 12°16 | 22°20 | 3°42 | S 14 |
| M15 | 7 37 31 | 24°58'08 | 1♈31 | 7°52 | 18°21 | 22°11 | 7° 7 | 12°46 | 7°25 | 13°32 | 22°44 | 10°38 | 12°13 | 22°27 | 3°47 | M15 |
| T 16 | 7 41 27 | 25°59'13 | 15°15 | 9°20 | 19°36 | 22°57 | 7°18 | 12°52 | 7°28 | 13°34 | 22°43 | 10°39 | 12°10 | 22°34 | 3°52 | T 16 |
| W17 | 7 45 24 | 27° 0'16 | 29°12 | 10°50 | 20°52 | 23°44 | 7°29 | 12°58 | 7°32 | 13°37 | 22°42 | 10°R39 | 12° 7 | 22°41 | 3°57 | W17 |
| T 18 | 7 49 21 | 28° 1'19 | 13♉22 | 12°20 | 22° 7 | 24°31 | 7°40 | 13° 3 | 7°35 | 13°39 | 22°41 | 10°38 | 12° 4 | 22°47 | 4° 2 | T 18 |
| F 19 | 7 53 17 | 29° 2'20 | 27°44 | 13°51 | 23°22 | 25°18 | 7°51 | 13° 9 | 7°39 | 13°41 | 22°40 | 10°35 | 12° 0 | 22°54 | 4° 6 | F 19 |
| S 20 | 7 57 14 | 0♒ 3'20 | 12♊14 | 15°22 | 24°38 | 26° 4 | 8° 1 | 13°15 | 7°42 | 13°43 | 22°39 | 10°31 | 11°57 | 23° 1 | 4°11 | S 20 |
| S 21 | 8 1 10 | 1° 4'20 | 26°47 | 16°54 | 25°53 | 26°51 | 8°12 | 13°20 | 7°45 | 13°46 | 22°38 | 10°25 | 11°54 | 23° 7 | 4°16 | S 21 |
| M22 | 8 5 7 | 2° 5'18 | 11♋17 | 18°27 | 27° 9 | 27°38 | 8°22 | 13°26 | 7°49 | 13°48 | 22°37 | 10°18 | 11°51 | 23°14 | 4°21 | M22 |
| T 23 | 8 9 3 | 3° 6'15 | 25°39 | 20° 0 | 28°24 | 28°25 | 8°33 | 13°31 | 7°52 | 13°50 | 22°37 | 10°12 | 11°48 | 23°21 | 4°26 | T 23 |
| W24 | 8 13 0 | 4° 7'11 | 9♌45 | 21°34 | 29°39 | 29°12 | 8°43 | 13°36 | 7°56 | 13°52 | 22°36 | 10° 8 | 11°45 | 23°28 | 4°31 | W24 |
| T 25 | 8 16 56 | 5° 8'06 | 23°31 | 23° 9 | 0♒55 | 29°59 | 8°53 | 13°42 | 7°59 | 13°54 | 22°35 | 10° 5 | 11°41 | 23°34 | 4°36 | T 25 |
| F 26 | 8 20 53 | 6° 9'01 | 6♍54 | 24°44 | 2°10 | 0♒46 | 9° 3 | 13°47 | 8° 3 | 13°56 | 22°34 | 10°D 4 | 11°38 | 23°41 | 4°40 | F 26 |
| S 27 | 8 24 50 | 7° 9'54 | 19°55 | 26°20 | 3°25 | 1°33 | 9°13 | 13°52 | 8° 6 | 13°59 | 22°33 | 10° 4 | 11°35 | 23°48 | 4°45 | S 27 |
| S 28 | 8 28 46 | 8°10'46 | 2♎35 | 27°57 | 4°40 | 2°20 | 9°23 | 13°57 | 8°10 | 14° 1 | 22°32 | 10° 5 | 11°32 | 23°54 | 4°50 | S 28 |
| M29 | 8 32 43 | 9°11'38 | 14°56 | 29°34 | 5°56 | 3° 7 | 9°32 | 14° 2 | 8°13 | 14° 3 | 22°32 | 10° 7 | 11°29 | 24° 1 | 4°55 | M29 |
| T 30 | 8 36 39 | 10°12'28 | 27° 2 | 1♒12 | 7°11 | 3°54 | 9°42 | 14° 7 | 8°17 | 14° 5 | 22°31 | 10° 9 | 11°25 | 24° 8 | 5° 0 | T 30 |
| W31 | 8 40 36 | 11♒13'18 | 8♏59 | 2♒51 | 8♒26 | 4♒41 | 9♐52 | 14♐12 | 8♒20 | 14♑ 7 | 22♊30 | 10°R10 | 11♍22 | 24♏15 | 5♒ 5 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23s 3 | 0s50 | 2n11 | 21s47 | 1n13 | 23s34 | 0s 6 | 23s53 | 0s54 | 20s21 | 0n44 | 20s38 | 1n33 | 19s14 | 0s37 | 22s 7 | 0n44 | 16n27 | 6s51 | 7n 7 | 6n42 | 13s24 | 13s16 | 6n30 |
| T 2 | 22 58 | 4 39 | 3 6 | 22 2 | 1 4 | 23 36 | 0 8 | 23 50 | 0 54 | 20 23 | 0 44 | 20 39 | 1 33 | 19 13 | 0 37 | 22 6 | 0 44 | 16 27 | 6 51 | 7 7 | 6 44 | 13 26 | 13 15 | 6 29 |
| W 3 | 22 52 | 8 14 | 3 52 | 22 16 | 0 56 | 23 37 | 0 10 | 23 46 | 0 54 | 20 25 | 0 44 | 20 40 | 1 33 | 19 13 | 0 37 | 22 6 | 0 44 | 16 27 | 6 51 | 7 8 | 6 45 | 13 27 | 13 14 | 6 29 |
| T 4 | 22 46 | 11 29 | 4 27 | 22 29 | 0 47 | 23 37 | 0 13 | 23 41 | 0 55 | 20 28 | 0 43 | 20 41 | 1 33 | 19 12 | 0 37 | 22 6 | 0 44 | 16 27 | 6 51 | 7 10 | 6 46 | 13 28 | 13 14 | 6 29 |
| F 5 | 22 40 | 14 16 | 4 52 | 22 42 | 0 39 | 23 36 | 0 15 | 23 37 | 0 55 | 20 30 | 0 43 | 20 42 | 1 33 | 19 11 | 0 37 | 22 6 | 0 44 | 16 27 | 6 51 | 7 12 | 6 47 | 13 30 | 13 13 | 6 29 |
| S 6 | 22 33 | 16 28 | 5 4 | 22 53 | 0 30 | 23 35 | 0 18 | 23 32 | 0 56 | 20 32 | 0 43 | 20 43 | 1 33 | 19 10 | 0 37 | 22 6 | 0 44 | 16 27 | 6 51 | 7 16 | 6 48 | 13 31 | 13 12 | 6 29 |
| S 7 | 22 25 | 17 59 | 5 2 | 23 4 | 0 22 | 23 33 | 0 20 | 23 27 | 0 56 | 20 34 | 0 43 | 20 43 | 1 33 | 19 9 | 0 37 | 22 5 | 0 44 | 16 27 | 6 51 | 7 20 | 6 50 | 13 33 | 13 11 | 6 29 |
| M 8 | 22 17 | 18 41 | 4 47 | 23 14 | 0 14 | 23 30 | 0 22 | 23 22 | 0 56 | 20 36 | 0 43 | 20 44 | 1 33 | 19 8 | 0 37 | 22 5 | 0 44 | 16 27 | 6 51 | 7 24 | 6 51 | 13 34 | 13 10 | 6 28 |
| T 9 | 22 9 | 18 32 | 4 18 | 23 23 | 0 6 | 23 27 | 0 25 | 23 16 | 0 57 | 20 38 | 0 43 | 20 45 | 1 33 | 19 8 | 0 37 | 22 5 | 0 44 | 16 27 | 6 51 | 7 28 | 6 52 | 13 35 | 13 9 | 6 28 |
| W10 | 22 0 | 17 28 | 3 37 | 23 31 | 0s 2 | 23 23 | 0 27 | 23 10 | 0 57 | 20 40 | 0 44 | 20 46 | 1 33 | 19 7 | 0 37 | 22 5 | 0 44 | 16 27 | 6 50 | 7 31 | 6 53 | 13 37 | 13 8 | 6 28 |
| T 11 | 21 51 | 15 31 | 2 43 | 23 38 | 0 10 | 23 18 | 0 29 | 23 4 | 0 57 | 20 42 | 0 44 | 20 47 | 1 33 | 19 6 | 0 37 | 22 4 | 0 44 | 16 27 | 6 50 | 7 34 | 6 54 | 13 38 | 13 7 | 6 28 |
| F 12 | 21 42 | 12 45 | 1 41 | 23 43 | 0 17 | 23 12 | 0 31 | 22 58 | 0 58 | 20 44 | 0 44 | 20 47 | 1 33 | 19 5 | 0 37 | 22 4 | 0 44 | 16 27 | 6 50 | 7 35 | 6 56 | 13 40 | 13 6 | 6 28 |
| S 13 | 21 32 | 9 19 | 0 32 | 23 48 | 0 24 | 23 6 | 0 34 | 22 51 | 0 58 | 20 46 | 0 44 | 20 48 | 1 33 | 19 4 | 0 37 | 22 4 | 0 44 | 16 28 | 6 50 | 7 36 | 6 57 | 13 41 | 13 5 | 6 28 |
| S 14 | 21 21 | 5 22 | 0s40 | 23 51 | 0 32 | 22 59 | 0 36 | 22 44 | 0 58 | 20 47 | 0 44 | 20 49 | 1 33 | 19 3 | 0 36 | 22 4 | 0 44 | 16 28 | 6 50 | 7 36 | 6 58 | 13 42 | 13 4 | 6 28 |
| M15 | 21 10 | 1 5 | 1 51 | 23 53 | 0 39 | 22 51 | 0 38 | 22 37 | 0 58 | 20 49 | 0 44 | 20 49 | 1 33 | 19 2 | 0 36 | 22 4 | 0 44 | 16 28 | 6 50 | 7 36 | 6 59 | 13 44 | 13 3 | 6 28 |
| T 16 | 20 59 | 3n18 | 2 56 | 23 54 | 0 45 | 22 42 | 0 40 | 22 29 | 0 59 | 20 51 | 0 44 | 20 50 | 1 33 | 19 1 | 0 36 | 22 3 | 0 44 | 16 28 | 6 50 | 7 35 | 7 1 | 13 45 | 13 2 | 6 28 |
| W17 | 20 48 | 7 35 | 3 52 | 23 54 | 0 52 | 22 33 | 0 42 | 22 22 | 0 59 | 20 53 | 0 44 | 20 51 | 1 34 | 19 1 | 0 36 | 22 3 | 0 44 | 16 28 | 6 49 | 7 35 | 7 2 | 13 46 | 13 1 | 6 28 |
| T 18 | 20 36 | 11 30 | 4 35 | 23 52 | 0 58 | 22 23 | 0 44 | 22 14 | 0 59 | 20 55 | 0 44 | 20 51 | 1 34 | 19 0 | 0 36 | 22 3 | 0 44 | 16 28 | 6 49 | 7 35 | 7 3 | 13 48 | 13 0 | 6 27 |
| F 19 | 20 23 | 14 47 | 5 2 | 23 49 | 1 4 | 22 13 | 0 46 | 22 6 | 1 0 | 20 56 | 0 44 | 20 52 | 1 34 | 18 59 | 0 36 | 22 3 | 0 44 | 16 28 | 6 49 | 7 37 | 7 4 | 13 49 | 12 59 | 6 27 |
| S 20 | 20 10 | 17 11 | 5 9 | 23 45 | 1 10 | 22 2 | 0 48 | 21 57 | 1 0 | 20 58 | 0 44 | 20 53 | 1 34 | 18 58 | 0 36 | 22 2 | 0 44 | 16 28 | 6 49 | 7 38 | 7 5 | 13 51 | 12 58 | 6 27 |
| S 21 | 19 57 | 18 29 | 4 57 | 23 40 | 1 16 | 21 50 | 0 50 | 21 48 | 1 0 | 21 0 | 0 44 | 20 53 | 1 34 | 18 57 | 0 36 | 22 2 | 0 44 | 16 28 | 6 49 | 7 41 | 7 7 | 13 52 | 12 57 | 6 27 |
| M22 | 19 44 | 18 35 | 4 26 | 23 33 | 1 21 | 21 37 | 0 52 | 21 39 | 1 0 | 21 1 | 0 44 | 20 54 | 1 34 | 18 56 | 0 36 | 22 2 | 0 44 | 16 28 | 6 49 | 7 43 | 7 8 | 13 53 | 12 56 | 6 27 |
| T 23 | 19 30 | 17 29 | 3 38 | 23 24 | 1 26 | 21 24 | 0 54 | 21 30 | 1 1 | 21 3 | 0 44 | 20 55 | 1 34 | 18 55 | 0 36 | 22 2 | 0 44 | 16 28 | 6 49 | 7 45 | 7 9 | 13 55 | 12 55 | 6 27 |
| W24 | 19 16 | 15 19 | 2 38 | 23 15 | 1 31 | 21 10 | 0 56 | 21 21 | 1 1 | 21 4 | 0 44 | 20 55 | 1 34 | 18 54 | 0 36 | 22 2 | 0 44 | 16 29 | 6 48 | 7 47 | 7 10 | 13 56 | 12 54 | 6 27 |
| T 25 | 19 1 | 12 18 | 1 29 | 23 4 | 1 35 | 20 56 | 0 58 | 21 11 | 1 1 | 21 6 | 0 44 | 20 56 | 1 34 | 18 53 | 0 37 | 22 1 | 0 44 | 16 29 | 6 48 | 7 48 | 7 11 | 13 57 | 12 52 | 6 27 |
| F 26 | 18 46 | 8 43 | 0 17 | 22 51 | 1 40 | 20 41 | 0 59 | 21 1 | 1 2 | 21 8 | 0 44 | 20 56 | 1 34 | 18 52 | 0 37 | 22 1 | 0 44 | 16 29 | 6 48 | 7 49 | 7 13 | 13 59 | 12 51 | 6 27 |
| S 27 | 18 31 | 4 49 | 0n54 | 22 37 | 1 44 | 20 25 | 1 1 | 20 51 | 1 2 | 21 9 | 0 44 | 20 57 | 1 34 | 18 52 | 0 37 | 22 1 | 0 44 | 16 29 | 6 48 | 7 48 | 7 14 | 14 0 | 12 50 | 6 27 |
| S 28 | 18 15 | 0 49 | 2 0 | 22 22 | 1 47 | 20 9 | 1 3 | 20 41 | 1 2 | 21 10 | 0 44 | 20 57 | 1 34 | 18 51 | 0 37 | 22 1 | 0 44 | 16 29 | 6 48 | 7 48 | 7 15 | 14 2 | 12 49 | 6 27 |
| M29 | 17 59 | 3s 8 | 2 59 | 22 5 | 1 51 | 19 52 | 1 4 | 20 30 | 1 2 | 21 12 | 0 44 | 20 58 | 1 34 | 18 50 | 0 37 | 22 0 | 0 44 | 16 29 | 6 48 | 7 47 | 7 16 | 14 3 | 12 48 | 6 27 |
| T 30 | 17 43 | 6 52 | 3 49 | 21 46 | 1 54 | 19 34 | 1 6 | 20 19 | 1 2 | 21 13 | 0 44 | 20 58 | 1 34 | 18 49 | 0 37 | 22 0 | 0 44 | 16 29 | 6 48 | 7 47 | 7 18 | 14 4 | 12 47 | 6 27 |
| W31 | 17s26 | 10s16 | 4n29 | 21s27 | 1s56 | 19s16 | 1s 7 | 20s 8 | 1s 3 | 21s15 | 0n44 | 20s59 | 1n34 | 18s48 | 0s37 | 22s 0 | 0n44 | 16n29 | 6s47 | 7n46 | 7n19 | 14s 6 | 12s46 | 6n27 |

Julian Day Number = 2328458.5, Delta T = 34.35 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'11, Lahiri = 19°09'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## FEBRUARY 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 44 32 | 12♒14'07 | 20♏51 | 4♒31 | 9♒42 | 5♒28 | 10♐ 1 | 14♐17 | 8♒24 | 14♑ 9 | 22°R29 | 10°R 9 | 11♍19 | 24♏21 | 5♒10 | T 1 |
| F 2 | 8 48 29 | 13°14'55 | 2♐43 | 6°11 | 10°57 | 6°15 | 10°10 | 14°21 | 8°27 | 14°11 | 22♊29 | 10♍ 8 | 11°16 | 24°28 | 5°14 | F 2 |
| S 3 | 8 52 25 | 14°15'42 | 14°40 | 7°52 | 12°12 | 7° 2 | 10°19 | 14°26 | 8°31 | 14°13 | 22°28 | 10° 5 | 11°13 | 24°35 | 5°19 | S 3 |
| S 4 | 8 56 22 | 15°16'28 | 26°46 | 9°34 | 13°27 | 7°49 | 10°28 | 14°31 | 8°34 | 14°15 | 22°27 | 10° 1 | 11°10 | 24°41 | 5°24 | S 4 |
| M 5 | 9 0 19 | 16°17'12 | 9♑ 4 | 11°17 | 14°43 | 8°37 | 10°37 | 14°35 | 8°38 | 14°17 | 22°27 | 9°57 | 11° 6 | 24°48 | 5°29 | M 5 |
| T 6 | 9 4 15 | 17°17'56 | 21°37 | 13° 1 | 15°58 | 9°24 | 10°46 | 14°40 | 8°41 | 14°19 | 22°26 | 9°53 | 11° 3 | 24°55 | 5°34 | T 6 |
| W 7 | 9 8 12 | 18°18'38 | 4♒25 | 14°45 | 17°13 | 10°11 | 10°55 | 14°44 | 8°45 | 14°21 | 22°25 | 9°50 | 11° 0 | 25° 2 | 5°38 | W 7 |
| T 8 | 9 12 8 | 19°19'19 | 17°29 | 16°30 | 18°28 | 10°58 | 11° 3 | 14°48 | 8°48 | 14°23 | 22°25 | 9°47 | 10°57 | 25° 8 | 5°43 | T 8 |
| F 9 | 9 16 5 | 20°19'58 | 0♓48 | 18°17 | 19°43 | 11°45 | 11°12 | 14°53 | 8°52 | 14°25 | 22°24 | 9°46 | 10°54 | 25°15 | 5°48 | F 9 |
| S 10 | 9 20 1 | 21°20'36 | 14°21 | 20° 4 | 20°59 | 12°32 | 11°20 | 14°57 | 8°55 | 14°27 | 22°24 | 9°D46 | 10°51 | 25°22 | 5°53 | S 10 |
| S 11 | 9 23 58 | 22°21'12 | 28° 6 | 21°51 | 22°14 | 13°20 | 11°28 | 15° 1 | 8°59 | 14°29 | 22°23 | 9°47 | 10°47 | 25°28 | 5°57 | S 11 |
| M12 | 9 27 54 | 23°21'47 | 12♈ 1 | 23°40 | 23°29 | 14° 7 | 11°36 | 15° 5 | 9° 2 | 14°31 | 22°23 | 9°48 | 10°44 | 25°35 | 6° 2 | M12 |
| T 13 | 9 31 51 | 24°22'20 | 26° 3 | 25°29 | 24°44 | 14°54 | 11°44 | 15° 9 | 9° 5 | 14°33 | 22°22 | 9°49 | 10°41 | 25°42 | 6° 7 | T 13 |
| W14 | 9 35 48 | 25°22'51 | 10♉10 | 27°20 | 25°59 | 15°41 | 11°52 | 15°12 | 9° 9 | 14°34 | 22°22 | 9°50 | 10°38 | 25°49 | 6°11 | W14 |
| T 15 | 9 39 44 | 26°23'20 | 24°21 | 29°11 | 27°14 | 16°29 | 12° 0 | 15°16 | 9°12 | 14°36 | 22°21 | 9°R50 | 10°35 | 25°55 | 6°16 | T 15 |
| F 16 | 9 43 41 | 27°23'47 | 8♊33 | 1♓ 2 | 28°29 | 17°16 | 12° 7 | 15°20 | 9°16 | 14°38 | 22°21 | 9°50 | 10°31 | 26° 2 | 6°21 | F 16 |
| S 17 | 9 47 37 | 28°24'12 | 22°44 | 2°54 | 29°45 | 18° 3 | 12°15 | 15°23 | 9°19 | 14°40 | 22°20 | 9°49 | 10°28 | 26° 9 | 6°25 | S 17 |
| S 18 | 9 51 34 | 29°24'36 | 6♋51 | 4°47 | 1♓ 0 | 18°50 | 12°22 | 15°27 | 9°22 | 14°42 | 22°20 | 9°48 | 10°25 | 26°16 | 6°30 | S 18 |
| M19 | 9 55 30 | 0♓24'57 | 20°51 | 6°40 | 2°15 | 19°38 | 12°29 | 15°30 | 9°26 | 14°43 | 22°20 | 9°47 | 10°22 | 26°22 | 6°34 | M19 |
| T 20 | 9 59 27 | 1°25'16 | 4♌42 | 8°34 | 3°30 | 20°25 | 12°36 | 15°34 | 9°29 | 14°45 | 22°19 | 9°46 | 10°19 | 26°29 | 6°39 | T 20 |
| W21 | 10 3 23 | 2°25'34 | 18°21 | 10°27 | 4°45 | 21°12 | 12°43 | 15°37 | 9°32 | 14°47 | 22°19 | 9°45 | 10°16 | 26°36 | 6°43 | W21 |
| T 22 | 10 7 20 | 3°25'50 | 1♍46 | 12°21 | 6° 0 | 21°59 | 12°49 | 15°40 | 9°36 | 14°48 | 22°19 | 9°45 | 10°12 | 26°42 | 6°48 | T 22 |
| F 23 | 10 11 17 | 4°26'04 | 14°54 | 14°14 | 7°15 | 22°47 | 12°56 | 15°43 | 9°39 | 14°50 | 22°18 | 9°D45 | 10° 9 | 26°49 | 6°52 | F 23 |
| S 24 | 10 15 13 | 5°26'16 | 27°45 | 16° 7 | 8°30 | 23°34 | 13° 2 | 15°46 | 9°42 | 14°52 | 22°18 | 9°45 | 10° 6 | 26°56 | 6°57 | S 24 |
| S 25 | 10 19 10 | 6°26'26 | 10♎20 | 17°59 | 9°45 | 24°21 | 13° 8 | 15°49 | 9°45 | 14°53 | 22°18 | 9°45 | 10° 3 | 27° 3 | 7° 1 | S 25 |
| M26 | 10 23 6 | 7°26'35 | 22°40 | 19°50 | 10°59 | 25° 8 | 13°14 | 15°52 | 9°48 | 14°55 | 22°18 | 9°46 | 10° 0 | 27° 9 | 7° 5 | M26 |
| T 27 | 10 27 3 | 8°26'42 | 4♏47 | 21°39 | 12°14 | 25°56 | 13°20 | 15°54 | 9°52 | 14°56 | 22°18 | 9°46 | 9°57 | 27°16 | 7°10 | T 27 |
| W28 | 10 30 59 | 9♓26'48 | 16♏46 | 23♓26 | 13♓29 | 26♒43 | 13♐26 | 15♐57 | 9♒55 | 14♑58 | 22♊17 | 9°R46 | 9♍53 | 27♏23 | 7♒14 | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 17s 9 | 13s14 | 4n56 | 21s 5 | 1s59 | 18s58 | 1s 9 | 19s57 | 1s 3 | 21s16 | 0n44 | 20s59 | 1n34 | 18s47 | 0s37 | 22s 0 | 0n44 | 16n29 | 6s47 | 7n46 | 7n20 | 14s 7 | 12s45 | 6n27 | T 1 |
| F 2 | 16 52 | 15 39 | 5 11 | 20 42 | 2 1 | 18 38 | 1 10 | 19 46 | 1 3 | 21 17 | 0 44 | 21 0 | 1 34 | 18 46 | 0 37 | 22 0 | 0 44 | 16 30 | 6 47 | 7 47 | 7 21 | 14 8 | 12 43 | 6 27 | F 2 |
| S 3 | 16 35 | 17 25 | 5 13 | 20 18 | 2 2 | 18 19 | 1 12 | 19 34 | 1 3 | 21 19 | 0 44 | 21 0 | 1 35 | 18 45 | 0 37 | 21 59 | 0 44 | 16 30 | 6 47 | 7 48 | 7 22 | 14 10 | 12 42 | 6 27 | S 3 |
| S 4 | 16 17 | 18 26 | 5 0 | 19 52 | 2 4 | 17 58 | 1 13 | 19 22 | 1 3 | 21 20 | 0 44 | 21 1 | 1 35 | 18 44 | 0 37 | 21 59 | 0 44 | 16 30 | 6 47 | 7 50 | 7 24 | 14 11 | 12 41 | 6 27 | S 4 |
| M 5 | 15 59 | 18 36 | 4 34 | 19 25 | 2 4 | 17 38 | 1 14 | 19 10 | 1 4 | 21 21 | 0 44 | 21 1 | 1 35 | 18 43 | 0 37 | 21 59 | 0 44 | 16 30 | 6 46 | 7 51 | 7 25 | 14 12 | 12 40 | 6 28 | M 5 |
| T 6 | 15 41 | 17 53 | 3 55 | 18 56 | 2 5 | 17 17 | 1 15 | 18 57 | 1 4 | 21 22 | 0 44 | 21 2 | 1 35 | 18 42 | 0 37 | 21 59 | 0 44 | 16 30 | 6 46 | 7 53 | 7 26 | 14 14 | 12 39 | 6 28 | T 6 |
| W 7 | 15 22 | 16 14 | 3 3 | 18 26 | 2 5 | 16 55 | 1 16 | 18 45 | 1 4 | 21 24 | 0 44 | 21 2 | 1 35 | 18 42 | 0 37 | 21 59 | 0 44 | 16 30 | 6 46 | 7 54 | 7 27 | 14 15 | 12 37 | 6 28 | W 7 |
| T 8 | 15 3 | 13 43 | 2 0 | 17 54 | 2 4 | 16 33 | 1 17 | 18 32 | 1 4 | 21 25 | 0 44 | 21 2 | 1 35 | 18 41 | 0 37 | 21 58 | 0 44 | 16 30 | 6 46 | 7 55 | 7 28 | 14 16 | 12 36 | 6 28 | T 8 |
| F 9 | 14 44 | 10 26 | 0 49 | 17 20 | 2 4 | 16 10 | 1 18 | 18 19 | 1 4 | 21 26 | 0 44 | 21 3 | 1 35 | 18 40 | 0 37 | 21 58 | 0 44 | 16 31 | 6 46 | 7 55 | 7 30 | 14 18 | 12 35 | 6 28 | F 9 |
| S 10 | 14 25 | 6 33 | 0s25 | 16 45 | 2 2 | 15 47 | 1 19 | 18 6 | 1 4 | 21 27 | 0 44 | 21 3 | 1 35 | 18 39 | 0 37 | 21 58 | 0 44 | 16 31 | 6 46 | 7 55 | 7 31 | 14 19 | 12 34 | 6 28 | S 10 |
| S 11 | 14 5 | 2 17 | 1 40 | 16 9 | 2 0 | 15 23 | 1 20 | 17 53 | 1 5 | 21 28 | 0 44 | 21 4 | 1 35 | 18 38 | 0 37 | 21 58 | 0 44 | 16 31 | 6 45 | 7 55 | 7 32 | 14 20 | 12 33 | 6 28 | S 11 |
| M12 | 13 45 | 2n10 | 2 49 | 15 31 | 1 58 | 14 59 | 1 21 | 17 39 | 1 5 | 21 29 | 0 44 | 21 4 | 1 35 | 18 37 | 0 37 | 21 58 | 0 44 | 16 31 | 6 45 | 7 55 | 7 33 | 14 22 | 12 31 | 6 28 | M12 |
| T 13 | 13 25 | 6 31 | 3 49 | 14 51 | 1 55 | 14 35 | 1 22 | 17 26 | 1 5 | 21 30 | 0 44 | 21 4 | 1 35 | 18 36 | 0 37 | 21 57 | 0 44 | 16 31 | 6 45 | 7 54 | 7 34 | 14 23 | 12 30 | 6 28 | T 13 |
| W14 | 13 5 | 10 32 | 4 35 | 14 10 | 1 52 | 14 10 | 1 23 | 17 12 | 1 5 | 21 31 | 0 44 | 21 5 | 1 35 | 18 35 | 0 37 | 21 57 | 0 44 | 16 31 | 6 45 | 7 54 | 7 36 | 14 24 | 12 29 | 6 28 | W14 |
| T 15 | 12 45 | 13 58 | 5 5 | 13 28 | 1 48 | 13 45 | 1 23 | 16 58 | 1 5 | 21 32 | 0 44 | 21 5 | 1 36 | 18 34 | 0 37 | 21 57 | 0 44 | 16 32 | 6 45 | 7 54 | 7 37 | 14 26 | 12 28 | 6 28 | T 15 |
| F 16 | 12 24 | 16 34 | 5 16 | 12 44 | 1 44 | 13 20 | 1 24 | 16 43 | 1 5 | 21 33 | 0 44 | 21 5 | 1 36 | 18 34 | 0 37 | 21 57 | 0 44 | 16 32 | 6 44 | 7 54 | 7 38 | 14 27 | 12 26 | 6 29 | F 16 |
| S 17 | 12 3 | 18 9 | 5 8 | 11 59 | 1 38 | 12 54 | 1 24 | 16 29 | 1 5 | 21 34 | 0 44 | 21 6 | 1 36 | 18 33 | 0 37 | 21 56 | 0 44 | 16 32 | 6 44 | 7 54 | 7 39 | 14 28 | 12 25 | 6 29 | S 17 |
| S 18 | 11 42 | 18 37 | 4 42 | 11 13 | 1 33 | 12 28 | 1 25 | 16 14 | 1 5 | 21 35 | 0 44 | 21 6 | 1 36 | 18 32 | 0 37 | 21 56 | 0 44 | 16 32 | 6 44 | 7 54 | 7 40 | 14 30 | 12 24 | 6 29 | S 18 |
| M19 | 11 21 | 17 55 | 3 59 | 10 25 | 1 27 | 12 1 | 1 25 | 16 0 | 1 5 | 21 36 | 0 44 | 21 6 | 1 36 | 18 31 | 0 37 | 21 56 | 0 44 | 16 32 | 6 44 | 7 55 | 7 42 | 14 31 | 12 23 | 6 29 | M19 |
| T 20 | 10 59 | 16 10 | 3 2 | 9 36 | 1 20 | 11 34 | 1 26 | 15 45 | 1 6 | 21 37 | 0 44 | 21 6 | 1 36 | 18 30 | 0 37 | 21 56 | 0 44 | 16 32 | 6 44 | 7 55 | 7 43 | 14 32 | 12 21 | 6 29 | T 20 |
| W21 | 10 38 | 13 31 | 1 56 | 8 46 | 1 12 | 11 7 | 1 26 | 15 30 | 1 6 | 21 37 | 0 45 | 21 7 | 1 36 | 18 29 | 0 37 | 21 56 | 0 44 | 16 33 | 6 44 | 7 56 | 7 44 | 14 34 | 12 20 | 6 29 | W21 |
| T 22 | 10 16 | 10 11 | 0 44 | 7 55 | 1 4 | 10 40 | 1 26 | 15 14 | 1 6 | 21 38 | 0 45 | 21 7 | 1 36 | 18 28 | 0 37 | 21 56 | 0 44 | 16 33 | 6 43 | 7 56 | 7 45 | 14 35 | 12 19 | 6 30 | T 22 |
| F 23 | 9 54 | 6 24 | 0n29 | 7 4 | 0 55 | 10 12 | 1 26 | 14 59 | 1 6 | 21 39 | 0 45 | 21 7 | 1 36 | 18 27 | 0 37 | 21 55 | 0 44 | 16 33 | 6 43 | 7 56 | 7 46 | 14 36 | 12 18 | 6 30 | F 23 |
| S 24 | 9 32 | 2 24 | 1 38 | 6 11 | 0 46 | 9 44 | 1 26 | 14 43 | 1 6 | 21 40 | 0 45 | 21 7 | 1 36 | 18 27 | 0 37 | 21 55 | 0 44 | 16 33 | 6 43 | 7 56 | 7 48 | 14 38 | 12 16 | 6 30 | S 24 |
| S 25 | 9 10 | 1s37 | 2 42 | 5 18 | 0 36 | 9 16 | 1 26 | 14 28 | 1 6 | 21 41 | 0 45 | 21 8 | 1 36 | 18 26 | 0 37 | 21 55 | 0 44 | 16 33 | 6 43 | 7 56 | 7 49 | 14 39 | 12 15 | 6 30 | S 25 |
| M26 | 8 47 | 5 29 | 3 36 | 4 25 | 0 25 | 8 47 | 1 26 | 14 12 | 1 6 | 21 41 | 0 45 | 21 8 | 1 37 | 18 25 | 0 37 | 21 55 | 0 44 | 16 33 | 6 43 | 7 55 | 7 50 | 14 40 | 12 14 | 6 30 | M26 |
| T 27 | 8 25 | 9 3 | 4 20 | 3 32 | 0 14 | 8 18 | 1 26 | 13 56 | 1 6 | 21 42 | 0 45 | 21 8 | 1 37 | 18 24 | 0 37 | 21 55 | 0 44 | 16 34 | 6 42 | 7 55 | 7 51 | 14 41 | 12 13 | 6 31 | T 27 |
| W28 | 8s 2 | 12s12 | 4n52 | 2s39 | 0s 2 | 7s49 | 1s26 | 13s40 | 1s 6 | 21s43 | 0n45 | 21s 8 | 1n37 | 18s23 | 0s37 | 21s54 | 0n44 | 16n34 | 6s42 | 7n55 | 7n52 | 14s43 | 12s11 | 6n31 | W28 |

Julian Day Number = 2328489.5, Delta T = 34.29 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'15, Lahiri = 19°09'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## MARCH 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 34 56 | 10♓26'52 | 28♏39 | 25♓11 | 14♓44 | 27♒30 | 13♐32 | 15♐59 | 9♒58 | 14♑59 | 22°R17 | 9°R46 | 9♍50 | 27♏29 | 7♒18 | T 1 |
| F 2 | 10 38 52 | 11°26'54 | 10♐32 | 26°53 | 15°59 | 28°18 | 13°37 | 16° 2 | 10° 1 | 15° 1 | 22♊17 | 9°D46 | 9°47 | 27°36 | 7°23 | F 2 |
| S 3 | 10 42 49 | 12°26'55 | 22°29 | 28°32 | 17°14 | 29° 5 | 13°42 | 16° 4 | 10° 4 | 15° 2 | 22°17 | 9♍46 | 9°44 | 27°43 | 7°27 | S 3 |
| S 4 | 10 46 45 | 13°26'54 | 4♑35 | 0♈ 6 | 18°29 | 29°52 | 13°47 | 16° 6 | 10° 7 | 15° 4 | 22°17 | 9°46 | 9°41 | 27°50 | 7°31 | S 4 |
| M 5 | 10 50 42 | 14°26'52 | 16°54 | 1°37 | 19°44 | 0♓39 | 13°52 | 16° 8 | 10°10 | 15° 5 | 22°17 | 9°46 | 9°37 | 27°56 | 7°35 | M 5 |
| T 6 | 10 54 39 | 15°26'47 | 29°30 | 3° 2 | 20°58 | 1°27 | 13°57 | 16°10 | 10°13 | 15° 6 | 22°17 | 9°47 | 9°34 | 28° 3 | 7°39 | T 6 |
| W 7 | 10 58 35 | 16°26'41 | 12♒25 | 4°21 | 22°13 | 2°14 | 14° 2 | 16°12 | 10°16 | 15° 8 | 22°D17 | 9°48 | 9°31 | 28°10 | 7°43 | W 7 |
| T 8 | 11 2 32 | 17°26'34 | 25°41 | 5°35 | 23°28 | 3° 1 | 14° 6 | 16°14 | 10°19 | 15° 9 | 22°17 | 9°48 | 9°28 | 28°16 | 7°47 | T 8 |
| F 9 | 11 6 28 | 18°26'24 | 9♓19 | 6°42 | 24°43 | 3°48 | 14°10 | 16°16 | 10°22 | 15°10 | 22°17 | 9°R48 | 9°25 | 28°23 | 7°51 | F 9 |
| S 10 | 11 10 25 | 19°26'12 | 23°16 | 7°42 | 25°57 | 4°35 | 14°14 | 16°17 | 10°25 | 15°12 | 22°17 | 9°48 | 9°22 | 28°30 | 7°55 | S 10 |
| S 11 | 11 14 21 | 20°25'58 | 7♈29 | 8°35 | 27°12 | 5°23 | 14°18 | 16°19 | 10°28 | 15°13 | 22°17 | 9°47 | 9°18 | 28°37 | 7°59 | S 11 |
| M12 | 11 18 18 | 21°25'43 | 21°53 | 9°20 | 28°27 | 6°10 | 14°22 | 16°20 | 10°31 | 15°14 | 22°17 | 9°46 | 9°15 | 28°43 | 8° 3 | M12 |
| T 13 | 11 22 14 | 22°25'25 | 6♉23 | 9°58 | 29°41 | 6°57 | 14°26 | 16°22 | 10°34 | 15°15 | 22°17 | 9°45 | 9°12 | 28°50 | 8° 7 | T 13 |
| W14 | 11 26 11 | 23°25'05 | 20°53 | 10°27 | 0♈56 | 7°44 | 14°29 | 16°23 | 10°36 | 15°16 | 22°18 | 9°43 | 9° 9 | 28°57 | 8°10 | W14 |
| T 15 | 11 30 8 | 24°24'42 | 5♊18 | 10°49 | 2°11 | 8°31 | 14°32 | 16°24 | 10°39 | 15°17 | 22°18 | 9°42 | 9° 6 | 29° 4 | 8°14 | T 15 |
| F 16 | 11 34 4 | 25°24'18 | 19°34 | 11° 2 | 3°25 | 9°18 | 14°35 | 16°25 | 10°42 | 15°18 | 22°18 | 9°D41 | 9° 2 | 29°10 | 8°18 | F 16 |
| S 17 | 11 38 1 | 26°23'51 | 3♋38 | 11°R 7 | 4°40 | 10° 5 | 14°38 | 16°26 | 10°45 | 15°19 | 22°18 | 9°41 | 8°59 | 29°17 | 8°21 | S 17 |
| S 18 | 11 41 57 | 27°23'21 | 17°30 | 11° 3 | 5°54 | 10°52 | 14°41 | 16°27 | 10°47 | 15°20 | 22°18 | 9°42 | 8°56 | 29°24 | 8°25 | S 18 |
| M19 | 11 45 54 | 28°22'49 | 1♌ 9 | 10°53 | 7° 9 | 11°40 | 14°43 | 16°28 | 10°50 | 15°21 | 22°19 | 9°43 | 8°53 | 29°30 | 8°29 | M19 |
| T 20 | 11 49 50 | 29°22'15 | 14°34 | 10°35 | 8°23 | 12°27 | 14°46 | 16°28 | 10°53 | 15°22 | 22°19 | 9°45 | 8°50 | 29°37 | 8°32 | T 20 |
| W21 | 11 53 47 | 0♈21'39 | 27°46 | 10°10 | 9°38 | 13°14 | 14°48 | 16°29 | 10°55 | 15°23 | 22°19 | 9°46 | 8°47 | 29°44 | 8°36 | W21 |
| T 22 | 11 57 43 | 1°21'00 | 10♍46 | 9°39 | 10°52 | 14° 1 | 14°50 | 16°29 | 10°58 | 15°24 | 22°20 | 9°R46 | 8°43 | 29°51 | 8°39 | T 22 |
| F 23 | 12 1 40 | 2°20'20 | 23°33 | 9° 3 | 12° 7 | 14°48 | 14°51 | 16°30 | 11° 0 | 15°25 | 22°20 | 9°45 | 8°40 | 29°57 | 8°42 | F 23 |
| S 24 | 12 5 37 | 3°19'37 | 6♎ 8 | 8°22 | 13°21 | 15°35 | 14°53 | 16°30 | 11° 3 | 15°26 | 22°20 | 9°44 | 8°37 | 0♐ 4 | 8°46 | S 24 |
| S 25 | 12 9 33 | 4°18'52 | 18°32 | 7°37 | 14°36 | 16°21 | 14°54 | 16°30 | 11° 5 | 15°27 | 22°21 | 9°41 | 8°34 | 0°11 | 8°49 | S 25 |
| M26 | 12 13 30 | 5°18'05 | 0♏45 | 6°50 | 15°50 | 17° 8 | 14°56 | 16°R30 | 11° 7 | 15°27 | 22°21 | 9°36 | 8°31 | 0°17 | 8°52 | M26 |
| T 27 | 12 17 26 | 6°17'16 | 12°49 | 6° 0 | 17° 4 | 17°55 | 14°57 | 16°30 | 11°10 | 15°28 | 22°22 | 9°32 | 8°28 | 0°24 | 8°55 | T 27 |
| W28 | 12 21 23 | 7°16'25 | 24°47 | 5°11 | 18°19 | 18°42 | 14°57 | 16°30 | 11°12 | 15°29 | 22°22 | 9°27 | 8°24 | 0°31 | 8°58 | W28 |
| T 29 | 12 25 19 | 8°15'33 | 6♐40 | 4°21 | 19°33 | 19°29 | 14°58 | 16°30 | 11°14 | 15°29 | 22°23 | 9°23 | 8°21 | 0°38 | 9° 1 | T 29 |
| F 30 | 12 29 16 | 9°14'39 | 18°32 | 3°33 | 20°47 | 20°16 | 14°59 | 16°29 | 11°17 | 15°30 | 22°23 | 9°20 | 8°18 | 0°44 | 9° 4 | F 30 |
| S 31 | 12 33 12 | 10♈13'42 | 0♑28 | 2♈47 | 22♈ 1 | 21♓ 3 | 14♐59 | 16♐29 | 11♒19 | 15♑31 | 22♊24 | 9♍18 | 8♍15 | 0♐51 | 9♒ 7 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat |
| T 1 | 7s40 | 14s50 | 5n11 | 1s46 | 0n10 | 7s20 | 1s26 | 13s23 | 1s 6 | 21s43 | 0n45 | 21s 8 | 1n37 | 18s22 | 0s37 | 21s54 | 0n44 | 16n34 | 6s42 | 7n55 | 7n54 | 14s44 | 12s10 | 6n31 |
| F 2 | 7 17 | 16 50 | 5 17 | 0 54 | 0 23 | 6 51 | 1 25 | 13 7 | 1 6 | 21 44 | 0 45 | 21 8 | 1 37 | 18 22 | 0 37 | 21 54 | 0 44 | 16 34 | 6 42 | 7 55 | 7 55 | 14 45 | 12 9 | 6 31 |
| S 3 | 6 54 | 18 7 | 5 9 | 0 3 | 0 36 | 6 21 | 1 25 | 12 51 | 1 6 | 21 44 | 0 45 | 21 9 | 1 37 | 18 21 | 0 37 | 21 54 | 0 44 | 16 34 | 6 42 | 7 55 | 7 56 | 14 47 | 12 8 | 6 31 |
| S 4 | 6 31 | 18 36 | 4 48 | 0n47 | 0 49 | 5 52 | 1 25 | 12 34 | 1 6 | 21 45 | 0 45 | 21 9 | 1 37 | 18 20 | 0 37 | 21 54 | 0 44 | 16 35 | 6 41 | 7 55 | 7 57 | 14 48 | 12 6 | 6 32 |
| M 5 | 6 8 | 18 13 | 4 13 | 1 36 | 1 2 | 5 22 | 1 24 | 12 17 | 1 6 | 21 46 | 0 45 | 21 9 | 1 37 | 18 19 | 0 37 | 21 54 | 0 44 | 16 35 | 6 41 | 7 55 | 7 58 | 14 49 | 12 5 | 6 32 |
| T 6 | 5 45 | 16 57 | 3 25 | 2 22 | 1 16 | 4 52 | 1 24 | 12 0 | 1 6 | 21 46 | 0 45 | 21 9 | 1 37 | 18 18 | 0 37 | 21 53 | 0 44 | 16 35 | 6 41 | 7 55 | 8 0 | 14 51 | 12 4 | 6 32 |
| W 7 | 5 22 | 14 46 | 2 26 | 3 6 | 1 29 | 4 22 | 1 23 | 11 43 | 1 6 | 21 47 | 0 45 | 21 9 | 1 37 | 18 18 | 0 37 | 21 53 | 0 44 | 16 35 | 6 41 | 7 55 | 8 1 | 14 52 | 12 3 | 6 32 |
| T 8 | 4 58 | 11 46 | 1 17 | 3 48 | 1 43 | 3 51 | 1 22 | 11 26 | 1 6 | 21 47 | 0 45 | 21 9 | 1 38 | 18 17 | 0 37 | 21 53 | 0 44 | 16 35 | 6 41 | 7 54 | 8 2 | 14 53 | 12 1 | 6 33 |
| F 9 | 4 35 | 8 3 | 0 3 | 4 26 | 1 56 | 3 21 | 1 22 | 11 9 | 1 6 | 21 48 | 0 45 | 21 9 | 1 38 | 18 16 | 0 37 | 21 53 | 0 44 | 16 36 | 6 40 | 7 54 | 8 3 | 14 54 | 12 0 | 6 33 |
| S 10 | 4 11 | 3 48 | 1s14 | 5 2 | 2 9 | 2 51 | 1 21 | 10 52 | 1 6 | 21 48 | 0 45 | 21 9 | 1 38 | 18 15 | 0 37 | 21 53 | 0 44 | 16 36 | 6 40 | 7 54 | 8 4 | 14 56 | 11 59 | 6 33 |
| S 11 | 3 48 | 0n43 | 2 27 | 5 34 | 2 21 | 2 20 | 1 20 | 10 34 | 1 6 | 21 48 | 0 45 | 21 9 | 1 38 | 18 14 | 0 37 | 21 53 | 0 44 | 16 36 | 6 40 | 7 55 | 8 6 | 14 57 | 11 58 | 6 33 |
| M12 | 3 24 | 5 15 | 3 32 | 6 3 | 2 33 | 1 50 | 1 19 | 10 17 | 1 6 | 21 49 | 0 45 | 21 9 | 1 38 | 18 14 | 0 37 | 21 52 | 0 44 | 16 36 | 6 40 | 7 55 | 8 7 | 14 58 | 11 56 | 6 34 |
| T 13 | 3 1 | 9 31 | 4 24 | 6 28 | 2 44 | 1 19 | 1 18 | 9 59 | 1 6 | 21 49 | 0 45 | 21 9 | 1 38 | 18 13 | 0 37 | 21 52 | 0 44 | 16 36 | 6 40 | 7 56 | 8 8 | 15 0 | 11 55 | 6 34 |
| W14 | 2 37 | 13 12 | 4 59 | 6 48 | 2 54 | 0 48 | 1 17 | 9 42 | 1 5 | 21 49 | 0 45 | 21 9 | 1 38 | 18 12 | 0 37 | 21 52 | 0 44 | 16 37 | 6 39 | 7 56 | 8 9 | 15 1 | 11 54 | 6 34 |
| T 15 | 2 13 | 16 3 | 5 15 | 7 5 | 3 3 | 0 17 | 1 16 | 9 24 | 1 5 | 21 50 | 0 45 | 21 9 | 1 38 | 18 11 | 0 37 | 21 52 | 0 44 | 16 37 | 6 39 | 7 57 | 8 10 | 15 2 | 11 53 | 6 35 |
| F 16 | 1 50 | 17 54 | 5 11 | 7 18 | 3 11 | 0n13 | 1 15 | 9 6 | 1 5 | 21 50 | 0 46 | 21 9 | 1 38 | 18 11 | 0 37 | 21 52 | 0 44 | 16 37 | 6 39 | 7 57 | 8 12 | 15 3 | 11 52 | 6 35 |
| S 17 | 1 26 | 18 37 | 4 49 | 7 26 | 3 17 | 0 44 | 1 13 | 8 48 | 1 5 | 21 50 | 0 46 | 21 9 | 1 38 | 18 10 | 0 37 | 21 52 | 0 44 | 16 37 | 6 39 | 7 57 | 8 13 | 15 5 | 11 50 | 6 35 |
| S 18 | 1 2 | 18 12 | 4 10 | 7 29 | 3 23 | 1 15 | 1 12 | 8 30 | 1 5 | 21 51 | 0 46 | 21 9 | 1 39 | 18 9 | 0 37 | 21 52 | 0 44 | 16 37 | 6 39 | 7 57 | 8 14 | 15 6 | 11 49 | 6 36 |
| M19 | 0 39 | 16 44 | 3 17 | 7 28 | 3 26 | 1 46 | 1 11 | 8 12 | 1 5 | 21 51 | 0 46 | 21 9 | 1 39 | 18 9 | 0 37 | 21 52 | 0 44 | 16 38 | 6 38 | 7 56 | 8 15 | 15 7 | 11 48 | 6 36 |
| T 20 | 0 15 | 14 21 | 2 15 | 7 23 | 3 28 | 2 16 | 1 9 | 7 54 | 1 5 | 21 51 | 0 46 | 21 9 | 1 39 | 18 8 | 0 37 | 21 51 | 0 44 | 16 38 | 6 38 | 7 56 | 8 16 | 15 8 | 11 47 | 6 36 |
| W21 | 0n 9 | 11 14 | 1 6 | 7 14 | 3 29 | 2 47 | 1 8 | 7 36 | 1 5 | 21 51 | 0 46 | 21 9 | 1 39 | 18 7 | 0 37 | 21 51 | 0 44 | 16 38 | 6 38 | 7 55 | 8 18 | 15 10 | 11 46 | 6 36 |
| T 22 | 0 32 | 7 38 | 0n 5 | 7 0 | 3 27 | 3 18 | 1 6 | 7 18 | 1 5 | 21 51 | 0 46 | 21 9 | 1 39 | 18 7 | 0 37 | 21 51 | 0 44 | 16 38 | 6 38 | 7 55 | 8 19 | 15 11 | 11 44 | 6 37 |
| F 23 | 0 56 | 3 43 | 1 15 | 6 43 | 3 24 | 3 48 | 1 5 | 6 59 | 1 4 | 21 52 | 0 46 | 21 9 | 1 39 | 18 6 | 0 37 | 21 51 | 0 44 | 16 39 | 6 38 | 7 55 | 8 20 | 15 12 | 11 43 | 6 37 |
| S 24 | 1 20 | 0s18 | 2 20 | 6 22 | 3 19 | 4 18 | 1 3 | 6 41 | 1 4 | 21 52 | 0 46 | 21 9 | 1 39 | 18 5 | 0 37 | 21 51 | 0 45 | 16 39 | 6 37 | 7 56 | 8 21 | 15 13 | 11 42 | 6 37 |
| S 25 | 1 43 | 4 14 | 3 17 | 5 59 | 3 13 | 4 49 | 1 2 | 6 23 | 1 4 | 21 52 | 0 46 | 21 9 | 1 39 | 18 5 | 0 37 | 21 51 | 0 45 | 16 39 | 6 37 | 7 57 | 8 22 | 15 15 | 11 41 | 6 38 |
| M26 | 2 7 | 7 56 | 4 4 | 5 32 | 3 4 | 5 19 | 1 0 | 6 4 | 1 4 | 21 52 | 0 46 | 21 9 | 1 39 | 18 4 | 0 38 | 21 51 | 0 45 | 16 39 | 6 37 | 7 59 | 8 24 | 15 16 | 11 40 | 6 38 |
| T 27 | 2 30 | 11 16 | 4 40 | 5 4 | 2 55 | 5 49 | 0 58 | 5 46 | 1 4 | 21 52 | 0 46 | 21 9 | 1 40 | 18 3 | 0 38 | 21 51 | 0 45 | 16 39 | 6 37 | 8 1 | 8 25 | 15 17 | 11 39 | 6 39 |
| W28 | 2 54 | 14 6 | 5 3 | 4 33 | 2 43 | 6 19 | 0 56 | 5 27 | 1 4 | 21 52 | 0 46 | 21 9 | 1 40 | 18 3 | 0 38 | 21 51 | 0 45 | 16 40 | 6 37 | 8 2 | 8 26 | 15 18 | 11 37 | 6 39 |
| T 29 | 3 17 | 16 20 | 5 12 | 4 2 | 2 31 | 6 49 | 0 55 | 5 9 | 1 3 | 21 52 | 0 46 | 21 8 | 1 40 | 18 2 | 0 38 | 21 50 | 0 45 | 16 40 | 6 36 | 8 4 | 8 27 | 15 20 | 11 36 | 6 39 |
| F 30 | 3 40 | 17 51 | 5 9 | 3 30 | 2 17 | 7 19 | 0 53 | 4 50 | 1 3 | 21 52 | 0 46 | 21 8 | 1 40 | 18 2 | 0 38 | 21 50 | 0 45 | 16 40 | 6 36 | 8 5 | 8 28 | 15 21 | 11 35 | 6 40 |
| S 31 | 4n 3 | 18s37 | 4n52 | 2n59 | 2n 2 | 7n48 | 0s51 | 4s31 | 1s 3 | 21s52 | 0n46 | 21s 8 | 1n40 | 18s 1 | 0s38 | 21s50 | 0n45 | 16n40 | 6s36 | 8n 6 | 8n29 | 15s22 | 11s34 | 6n40 |

Julian Day Number = 2328517.5, Delta T = 34.24 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'19, Lahiri = 19°09'20Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## APRIL 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 37 9 | 11♈12'44 | 12♉32 | 2°R 3 | 23♈16 | 21♓49 | 14°R59 | 16°R28 | 11♒21 | 15♉31 | 22♊24 | 9°D18 | 8♍12 | 0♐58 | 9♒10 | S 1 |
| M 2 | 12 41 5 | 12°11'45 | 24°48 | 1♈23 | 24°30 | 22°36 | 14♐59 | 16♐28 | 11°23 | 15°32 | 22°25 | 9♍18 | 8° 8 | 1° 5 | 9°13 | M 2 |
| T 3 | 12 45 2 | 13°10'43 | 7♒21 | 0°48 | 25°44 | 23°23 | 14°58 | 16°27 | 11°25 | 15°32 | 22°25 | 9°20 | 8° 5 | 1°11 | 9°16 | T 3 |
| W 4 | 12 48 59 | 14° 9'40 | 20°16 | 0°16 | 26°58 | 24°10 | 14°58 | 16°26 | 11°27 | 15°33 | 22°26 | 9°21 | 8° 2 | 1°18 | 9°19 | W 4 |
| T 5 | 12 52 55 | 15° 8'35 | 3♓35 | 29♓50 | 28°12 | 24°56 | 14°57 | 16°25 | 11°29 | 15°33 | 22°27 | 9°R22 | 7°59 | 1°25 | 9°21 | T 5 |
| F 6 | 12 56 52 | 16° 7'28 | 17°21 | 29°29 | 29°26 | 25°43 | 14°56 | 16°24 | 11°31 | 15°34 | 22°27 | 9°22 | 7°56 | 1°31 | 9°24 | F 6 |
| S 7 | 13 0 48 | 17° 6'19 | 1♈32 | 29°13 | 0♉40 | 26°29 | 14°55 | 16°23 | 11°33 | 15°34 | 22°28 | 9°21 | 7°53 | 1°38 | 9°26 | S 7 |
| S 8 | 13 4 45 | 18° 5'09 | 16° 5 | 29° 3 | 1°54 | 27°16 | 14°54 | 16°22 | 11°35 | 15°34 | 22°29 | 9°17 | 7°49 | 1°45 | 9°29 | S 8 |
| M 9 | 13 8 41 | 19° 3'56 | 0♉54 | 28°D57 | 3° 8 | 28° 3 | 14°53 | 16°20 | 11°37 | 15°35 | 22°29 | 9°12 | 7°46 | 1°52 | 9°31 | M 9 |
| T 10 | 13 12 38 | 20° 2'41 | 15°51 | 28°57 | 4°22 | 28°49 | 14°51 | 16°19 | 11°39 | 15°35 | 22°30 | 9° 6 | 7°43 | 1°58 | 9°34 | T 10 |
| W11 | 13 16 34 | 21° 1'24 | 0♊47 | 29° 3 | 5°36 | 29°36 | 14°49 | 16°18 | 11°40 | 15°35 | 22°31 | 8°59 | 7°40 | 2° 5 | 9°36 | W11 |
| T 12 | 13 20 31 | 22° 0'05 | 15°33 | 29°13 | 6°50 | 0♈22 | 14°47 | 16°16 | 11°42 | 15°35 | 22°32 | 8°54 | 7°37 | 2°12 | 9°38 | T 12 |
| F 13 | 13 24 28 | 22°58'44 | 0♋ 4 | 29°28 | 8° 4 | 1° 8 | 14°45 | 16°14 | 11°44 | 15°35 | 22°32 | 8°50 | 7°34 | 2°18 | 9°40 | F 13 |
| S 14 | 13 28 24 | 23°57'21 | 14°15 | 29°48 | 9°18 | 1°55 | 14°43 | 16°13 | 11°45 | 15°35 | 22°33 | 8°48 | 7°30 | 2°25 | 9°42 | S 14 |
| S 15 | 13 32 21 | 24°55'55 | 28° 4 | 0♈12 | 10°32 | 2°41 | 14°40 | 16°11 | 11°47 | 15°36 | 22°34 | 8°D48 | 7°27 | 2°32 | 9°44 | S 15 |
| M16 | 13 36 17 | 25°54'27 | 11♌33 | 0°41 | 11°46 | 3°27 | 14°38 | 16° 9 | 11°48 | 15°36 | 22°35 | 8°49 | 7°24 | 2°39 | 9°46 | M16 |
| T 17 | 13 40 14 | 26°52'57 | 24°43 | 1°14 | 13° 0 | 4°14 | 14°35 | 16° 7 | 11°50 | 15°R36 | 22°36 | 8°50 | 7°21 | 2°45 | 9°48 | T 17 |
| W18 | 13 44 10 | 27°51'25 | 7♍37 | 1°51 | 14°13 | 5° 0 | 14°32 | 16° 5 | 11°51 | 15°36 | 22°37 | 8°R50 | 7°18 | 2°52 | 9°50 | W18 |
| T 19 | 13 48 7 | 28°49'51 | 20°17 | 2°32 | 15°27 | 5°46 | 14°28 | 16° 2 | 11°53 | 15°36 | 22°38 | 8°50 | 7°14 | 2°59 | 9°52 | T 19 |
| F 20 | 13 52 3 | 29°48'14 | 2♎46 | 3°16 | 16°41 | 6°32 | 14°25 | 16° 0 | 11°54 | 15°36 | 22°39 | 8°47 | 7°11 | 3° 6 | 9°54 | F 20 |
| S 21 | 13 56 0 | 0♉46'36 | 15° 5 | 4° 4 | 17°54 | 7°18 | 14°21 | 15°58 | 11°55 | 15°35 | 22°39 | 8°42 | 7° 8 | 3°12 | 9°55 | S 21 |
| S 22 | 13 59 57 | 1°44'55 | 27°16 | 4°55 | 19° 8 | 8° 4 | 14°18 | 15°55 | 11°57 | 15°35 | 22°40 | 8°35 | 7° 5 | 3°19 | 9°57 | S 22 |
| M23 | 14 3 53 | 2°43'13 | 9♏20 | 5°50 | 20°22 | 8°50 | 14°14 | 15°53 | 11°58 | 15°35 | 22°41 | 8°25 | 7° 2 | 3°26 | 9°59 | M23 |
| T 24 | 14 7 50 | 3°41'29 | 21°19 | 6°47 | 21°35 | 9°36 | 14°10 | 15°50 | 11°59 | 15°35 | 22°42 | 8°15 | 6°59 | 3°32 | 10° 0 | T 24 |
| W25 | 14 11 46 | 4°39'43 | 3♐13 | 7°48 | 22°49 | 10°22 | 14° 5 | 15°47 | 12° 0 | 15°35 | 22°43 | 8° 4 | 6°55 | 3°39 | 10° 2 | W25 |
| T 26 | 14 15 43 | 5°37'56 | 15° 6 | 8°51 | 24° 2 | 11° 8 | 14° 1 | 15°44 | 12° 1 | 15°34 | 22°44 | 7°54 | 6°52 | 3°46 | 10° 3 | T 26 |
| F 27 | 14 19 39 | 6°36'07 | 26°58 | 9°57 | 25°16 | 11°54 | 13°56 | 15°42 | 12° 2 | 15°34 | 22°45 | 7°46 | 6°49 | 3°53 | 10° 4 | F 27 |
| S 28 | 14 23 36 | 7°34'17 | 8♑53 | 11° 6 | 26°29 | 12°40 | 13°52 | 15°39 | 12° 3 | 15°34 | 22°46 | 7°40 | 6°46 | 3°59 | 10° 5 | S 28 |
| S 29 | 14 27 32 | 8°32'25 | 20°56 | 12°17 | 27°43 | 13°26 | 13°47 | 15°36 | 12° 4 | 15°33 | 22°48 | 7°36 | 6°43 | 4° 6 | 10° 7 | S 29 |
| M30 | 14 31 29 | 9♉30'32 | 3♒ 9 | 13♈31 | 28♉56 | 14♈12 | 13♐42 | 15♐33 | 12♒ 5 | 15♉33 | 22♊49 | 7♍34 | 6♍39 | 4♐13 | 10♒ 8 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n27 | 18s33 | 4n22 | 2n27 | 1n47 | 8n18 | 0s49 | 4s13 | 1s 3 | 21s52 | 0n46 | 21s 8 | 1n40 | 18s 0 | 0s38 | 21s50 | 0n45 | 16n41 | 6s36 | 8n 6 | 8n31 | 15s23 | 11s33 | 6n40 |
| M 2 | 4 50 | 17 36 | 3 40 | 1 57 | 1 31 | 8 47 | 0 47 | 3 54 | 1 3 | 21 52 | 0 46 | 21 8 | 1 40 | 18 0 | 0 38 | 21 50 | 0 45 | 16 41 | 6 36 | 8 6 | 8 32 | 15 25 | 11 32 | 6 41 |
| T 3 | 5 13 | 15 47 | 2 46 | 1 28 | 1 15 | 9 16 | 0 45 | 3 35 | 1 2 | 21 52 | 0 46 | 21 8 | 1 40 | 17 59 | 0 38 | 21 50 | 0 45 | 16 41 | 6 35 | 8 5 | 8 33 | 15 26 | 11 31 | 6 41 |
| W 4 | 5 36 | 13 8 | 1 42 | 1 1 | 0 59 | 9 45 | 0 43 | 3 16 | 1 2 | 21 52 | 0 46 | 21 8 | 1 40 | 17 59 | 0 38 | 21 50 | 0 45 | 16 41 | 6 35 | 8 5 | 8 34 | 15 27 | 11 30 | 6 42 |
| T 5 | 5 58 | 9 43 | 0 32 | 0 35 | 0 43 | 10 13 | 0 40 | 2 58 | 1 2 | 21 52 | 0 46 | 21 7 | 1 40 | 17 58 | 0 38 | 21 50 | 0 45 | 16 41 | 6 35 | 8 4 | 8 35 | 15 28 | 11 29 | 6 42 |
| F 6 | 6 21 | 5 40 | 0s43 | 0 12 | 0 27 | 10 42 | 0 38 | 2 39 | 1 2 | 21 52 | 0 46 | 21 7 | 1 40 | 17 58 | 0 38 | 21 50 | 0 45 | 16 42 | 6 35 | 8 4 | 8 37 | 15 29 | 11 28 | 6 42 |
| S 7 | 6 44 | 1 11 | 1 58 | 0s 9 | 0 11 | 11 10 | 0 36 | 2 20 | 1 1 | 21 52 | 0 46 | 21 7 | 1 41 | 17 57 | 0 38 | 21 50 | 0 45 | 16 42 | 6 35 | 8 5 | 8 38 | 15 31 | 11 27 | 6 43 |
| S 8 | 7 6 | 3n28 | 3 6 | 0 27 | 0s 5 | 11 38 | 0 34 | 2 1 | 1 1 | 21 51 | 0 46 | 21 7 | 1 41 | 17 57 | 0 38 | 21 50 | 0 45 | 16 42 | 6 35 | 8 6 | 8 39 | 15 32 | 11 26 | 6 43 |
| M 9 | 7 29 | 8 0 | 4 3 | 0 43 | 0 19 | 12 5 | 0 32 | 1 43 | 1 1 | 21 51 | 0 46 | 21 7 | 1 41 | 17 56 | 0 38 | 21 50 | 0 45 | 16 42 | 6 34 | 8 8 | 8 40 | 15 33 | 11 25 | 6 44 |
| T 10 | 7 51 | 12 4 | 4 44 | 0 56 | 0 34 | 12 33 | 0 29 | 1 24 | 1 1 | 21 51 | 0 46 | 21 6 | 1 41 | 17 56 | 0 38 | 21 50 | 0 45 | 16 43 | 6 34 | 8 10 | 8 41 | 15 34 | 11 24 | 6 44 |
| W11 | 8 13 | 15 21 | 5 6 | 1 7 | 0 48 | 12 59 | 0 27 | 1 5 | 1 0 | 21 51 | 0 46 | 21 6 | 1 41 | 17 55 | 0 38 | 21 50 | 0 45 | 16 43 | 6 34 | 8 13 | 8 43 | 15 36 | 11 23 | 6 44 |
| T 12 | 8 35 | 17 36 | 5 7 | 1 15 | 1 1 | 13 26 | 0 25 | 0 46 | 1 0 | 21 51 | 0 46 | 21 6 | 1 41 | 17 55 | 0 38 | 21 50 | 0 45 | 16 43 | 6 34 | 8 15 | 8 44 | 15 37 | 11 22 | 6 45 |
| F 13 | 8 57 | 18 40 | 4 48 | 1 20 | 1 13 | 13 52 | 0 22 | 0 27 | 1 0 | 21 50 | 0 47 | 21 6 | 1 41 | 17 55 | 0 38 | 21 50 | 0 45 | 16 43 | 6 34 | 8 16 | 8 45 | 15 38 | 11 21 | 6 45 |
| S 14 | 9 19 | 18 32 | 4 12 | 1 23 | 1 25 | 14 18 | 0 20 | 0 9 | 0 59 | 21 50 | 0 47 | 21 5 | 1 41 | 17 54 | 0 38 | 21 50 | 0 45 | 16 43 | 6 33 | 8 17 | 8 46 | 15 39 | 11 20 | 6 46 |
| S 15 | 9 40 | 17 17 | 3 22 | 1 24 | 1 36 | 14 44 | 0 17 | 0n10 | 0 59 | 21 50 | 0 47 | 21 5 | 1 41 | 17 54 | 0 38 | 21 50 | 0 45 | 16 44 | 6 33 | 8 17 | 8 47 | 15 40 | 11 19 | 6 46 |
| M16 | 10 2 | 15 4 | 2 22 | 1 22 | 1 47 | 15 9 | 0 15 | 0 29 | 0 59 | 21 49 | 0 47 | 21 5 | 1 41 | 17 53 | 0 38 | 21 50 | 0 45 | 16 44 | 6 33 | 8 17 | 8 48 | 15 42 | 11 18 | 6 47 |
| T 17 | 10 23 | 12 7 | 1 15 | 1 17 | 1 56 | 15 34 | 0 12 | 0 47 | 0 58 | 21 49 | 0 47 | 21 4 | 1 41 | 17 53 | 0 38 | 21 49 | 0 45 | 16 44 | 6 33 | 8 16 | 8 50 | 15 43 | 11 17 | 6 47 |
| W18 | 10 44 | 8 37 | 0 7 | 1 11 | 2 5 | 15 59 | 0 10 | 1 6 | 0 58 | 21 49 | 0 47 | 21 4 | 1 41 | 17 53 | 0 38 | 21 49 | 0 45 | 16 44 | 6 33 | 8 16 | 8 51 | 15 44 | 11 16 | 6 47 |
| T 19 | 11 5 | 4 48 | 1n 1 | 1 2 | 2 13 | 16 23 | 0 7 | 1 25 | 0 58 | 21 48 | 0 47 | 21 4 | 1 41 | 17 52 | 0 38 | 21 49 | 0 45 | 16 44 | 6 33 | 8 16 | 8 52 | 15 45 | 11 15 | 6 48 |
| F 20 | 11 25 | 0 49 | 2 5 | 0 51 | 2 21 | 16 46 | 0 5 | 1 43 | 0 57 | 21 48 | 0 47 | 21 4 | 1 42 | 17 52 | 0 38 | 21 49 | 0 45 | 16 45 | 6 32 | 8 17 | 8 53 | 15 46 | 11 14 | 6 48 |
| S 21 | 11 46 | 3s 9 | 3 2 | 0 38 | 2 28 | 17 10 | 0 2 | 2 2 | 0 57 | 21 47 | 0 47 | 21 3 | 1 42 | 17 52 | 0 38 | 21 49 | 0 45 | 16 45 | 6 32 | 8 19 | 8 54 | 15 48 | 11 13 | 6 49 |
| S 22 | 12 6 | 6 56 | 3 50 | 0 24 | 2 34 | 17 33 | 0n 0 | 2 20 | 0 57 | 21 47 | 0 47 | 21 3 | 1 42 | 17 51 | 0 38 | 21 49 | 0 45 | 16 45 | 6 32 | 8 22 | 8 56 | 15 49 | 11 12 | 6 49 |
| M23 | 12 26 | 10 25 | 4 27 | 0 7 | 2 39 | 17 55 | 0 3 | 2 39 | 0 56 | 21 47 | 0 47 | 21 3 | 1 42 | 17 51 | 0 38 | 21 49 | 0 45 | 16 45 | 6 32 | 8 26 | 8 57 | 15 50 | 11 12 | 6 50 |
| T 24 | 12 46 | 13 26 | 4 51 | 0n12 | 2 44 | 18 17 | 0 5 | 2 57 | 0 56 | 21 46 | 0 47 | 21 2 | 1 42 | 17 51 | 0 39 | 21 49 | 0 45 | 16 46 | 6 32 | 8 29 | 8 58 | 15 51 | 11 11 | 6 50 |
| W25 | 13 6 | 15 52 | 5 3 | 0 32 | 2 48 | 18 38 | 0 8 | 3 16 | 0 56 | 21 46 | 0 47 | 21 2 | 1 42 | 17 50 | 0 39 | 21 49 | 0 45 | 16 46 | 6 32 | 8 33 | 8 59 | 15 52 | 11 10 | 6 51 |
| T 26 | 13 25 | 17 38 | 5 2 | 0 54 | 2 51 | 18 59 | 0 11 | 3 34 | 0 55 | 21 45 | 0 47 | 21 2 | 1 42 | 17 50 | 0 39 | 21 50 | 0 45 | 16 46 | 6 31 | 8 37 | 9 0 | 15 54 | 11 9 | 6 51 |
| F 27 | 13 45 | 18 39 | 4 48 | 1 17 | 2 54 | 19 20 | 0 13 | 3 52 | 0 55 | 21 45 | 0 47 | 21 1 | 1 42 | 17 50 | 0 39 | 21 50 | 0 45 | 16 46 | 6 31 | 8 40 | 9 1 | 15 55 | 11 8 | 6 51 |
| S 28 | 14 4 | 18 51 | 4 21 | 1 42 | 2 56 | 19 40 | 0 16 | 4 11 | 0 54 | 21 44 | 0 47 | 21 1 | 1 42 | 17 50 | 0 39 | 21 50 | 0 45 | 16 46 | 6 31 | 8 43 | 9 3 | 15 56 | 11 8 | 6 52 |
| S 29 | 14 22 | 18 11 | 3 42 | 2 9 | 2 57 | 19 59 | 0 18 | 4 29 | 0 54 | 21 43 | 0 47 | 21 1 | 1 42 | 17 49 | 0 39 | 21 50 | 0 45 | 16 47 | 6 31 | 8 44 | 9 4 | 15 57 | 11 7 | 6 52 |
| M30 | 14n41 | 16s41 | 2n53 | 2n37 | 2s58 | 20n18 | 0n21 | 4n47 | 0s54 | 21s43 | 0n47 | 21s 0 | 1n42 | 17s49 | 0s39 | 21s50 | 0n45 | 16n47 | 6s31 | 8n45 | 9n 5 | 15s58 | 11s 6 | 6n53 |

Julian Day Number = 2328548.5, Delta T = 34.18 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'23, Lahiri = 19°09'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## MAY 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 35 26 | 10♉28'37 | 15♒39 | 14♈47 | 0♊10 | 14♈57 | 13°R37 | 15°R29 | 12♒ 6 | 15°R33 | 22♊50 | 7°D34 | 6♍36 | 4♐19 | 10♒ 9 | T 1 |
| W 2 | 14 39 22 | 11°26'41 | 28°29 | 16° 6 | 1°23 | 15°43 | 13♐31 | 15♐26 | 12° 6 | 15♑32 | 22°51 | 7♍35 | 6°33 | 4°26 | 10°10 | W 2 |
| T 3 | 14 43 19 | 12°24'43 | 11♓44 | 17°27 | 2°36 | 16°29 | 13°26 | 15°23 | 12° 7 | 15°32 | 22°52 | 7°R35 | 6°30 | 4°33 | 10°10 | T 3 |
| F 4 | 14 47 15 | 13°22'44 | 25°27 | 18°50 | 3°50 | 17°14 | 13°20 | 15°20 | 12° 8 | 15°31 | 22°53 | 7°33 | 6°27 | 4°40 | 10°11 | F 4 |
| S 5 | 14 51 12 | 14°20'44 | 9♈39 | 20°15 | 5° 3 | 18° 0 | 13°15 | 15°16 | 12° 8 | 15°31 | 22°54 | 7°30 | 6°24 | 4°46 | 10°12 | S 5 |
| S 6 | 14 55 8 | 15°18'42 | 24°18 | 21°43 | 6°16 | 18°45 | 13° 9 | 15°13 | 12° 9 | 15°30 | 22°55 | 7°24 | 6°20 | 4°53 | 10°13 | S 6 |
| M 7 | 14 59 5 | 16°16'39 | 9♉19 | 23°12 | 7°29 | 19°31 | 13° 3 | 15° 9 | 12° 9 | 15°30 | 22°57 | 7°16 | 6°17 | 5° 0 | 10°13 | M 7 |
| T 8 | 15 3 1 | 17°14'34 | 24°32 | 24°44 | 8°43 | 20°16 | 12°57 | 15° 6 | 12°10 | 15°29 | 22°58 | 7° 6 | 6°14 | 5° 7 | 10°14 | T 8 |
| W 9 | 15 6 58 | 18°12'28 | 9♊47 | 26°18 | 9°56 | 21° 1 | 12°50 | 15° 2 | 12°10 | 15°28 | 22°59 | 6°56 | 6°11 | 5°13 | 10°14 | W 9 |
| T 10 | 15 10 54 | 19°10'20 | 24°53 | 27°54 | 11° 9 | 21°47 | 12°44 | 14°58 | 12°11 | 15°28 | 23° 0 | 6°47 | 6° 8 | 5°20 | 10°15 | T 10 |
| F 11 | 15 14 51 | 20° 8'11 | 9♋41 | 29°32 | 12°22 | 22°32 | 12°38 | 14°54 | 12°11 | 15°27 | 23° 1 | 6°39 | 6° 5 | 5°27 | 10°15 | F 11 |
| S 12 | 15 18 48 | 21° 6'00 | 24° 4 | 1♉13 | 13°35 | 23°17 | 12°31 | 14°51 | 12°11 | 15°26 | 23° 3 | 6°35 | 6° 1 | 5°33 | 10°15 | S 12 |
| S 13 | 15 22 44 | 22° 3'47 | 8♌ 1 | 2°55 | 14°48 | 24° 2 | 12°25 | 14°47 | 12°11 | 15°25 | 23° 4 | 6°32 | 5°58 | 5°40 | 10°15 | S 13 |
| M14 | 15 26 41 | 23° 1'32 | 21°31 | 4°39 | 16° 1 | 24°47 | 12°18 | 14°43 | 12°12 | 15°24 | 23° 5 | 6°D32 | 5°55 | 5°47 | 10°16 | M14 |
| T 15 | 15 30 37 | 23°59'16 | 4♍37 | 6°26 | 17°14 | 25°32 | 12°11 | 14°39 | 12°12 | 15°24 | 23° 6 | 6°R32 | 5°52 | 5°54 | 10°R16 | T 15 |
| W16 | 15 34 34 | 24°56'58 | 17°23 | 8°15 | 18°27 | 26°17 | 12° 4 | 14°35 | 12°12 | 15°23 | 23° 8 | 6°31 | 5°49 | 6° 0 | 10°16 | W16 |
| T 17 | 15 38 30 | 25°54'39 | 29°52 | 10° 5 | 19°40 | 27° 2 | 11°57 | 14°31 | 12°R12 | 15°22 | 23° 9 | 6°29 | 5°45 | 6° 7 | 10°16 | T 17 |
| F 18 | 15 42 27 | 26°52'17 | 12♎ 9 | 11°58 | 20°53 | 27°47 | 11°50 | 14°27 | 12°12 | 15°21 | 23°10 | 6°25 | 5°42 | 6°14 | 10°15 | F 18 |
| S 19 | 15 46 23 | 27°49'55 | 24°17 | 13°53 | 22° 6 | 28°32 | 11°43 | 14°23 | 12°12 | 15°20 | 23°12 | 6°18 | 5°39 | 6°20 | 10°15 | S 19 |
| S 20 | 15 50 20 | 28°47'31 | 6♏18 | 15°50 | 23°19 | 29°16 | 11°36 | 14°19 | 12°12 | 15°19 | 23°13 | 6° 8 | 5°36 | 6°27 | 10°15 | S 20 |
| M21 | 15 54 17 | 29°45'06 | 18°15 | 17°49 | 24°31 | 0♉ 1 | 11°28 | 14°14 | 12°11 | 15°18 | 23°14 | 5°56 | 5°33 | 6°34 | 10°15 | M21 |
| T 22 | 15 58 13 | 0♊42'39 | 0♐ 9 | 19°50 | 25°44 | 0°46 | 11°21 | 14°10 | 12°11 | 15°17 | 23°16 | 5°43 | 5°30 | 6°41 | 10°14 | T 22 |
| W23 | 16 2 10 | 1°40'12 | 12° 2 | 21°52 | 26°57 | 1°30 | 11°14 | 14° 6 | 12°11 | 15°16 | 23°17 | 5°29 | 5°26 | 6°47 | 10°14 | W23 |
| T 24 | 16 6 6 | 2°37'43 | 23°55 | 23°57 | 28° 9 | 2°15 | 11° 6 | 14° 2 | 12°11 | 15°15 | 23°18 | 5°15 | 5°23 | 6°54 | 10°13 | T 24 |
| F 25 | 16 10 3 | 3°35'14 | 5♑49 | 26° 3 | 29°22 | 2°59 | 10°59 | 13°57 | 12°10 | 15°14 | 23°20 | 5° 4 | 5°20 | 7° 1 | 10°12 | F 25 |
| S 26 | 16 13 59 | 4°32'43 | 17°48 | 28°10 | 0♋35 | 3°44 | 10°51 | 13°53 | 12°10 | 15°13 | 23°21 | 4°55 | 5°17 | 7° 8 | 10°12 | S 26 |
| S 27 | 16 17 56 | 5°30'11 | 29°53 | 0♊19 | 1°47 | 4°28 | 10°43 | 13°49 | 12° 9 | 15°12 | 23°22 | 4°49 | 5°14 | 7°14 | 10°11 | S 27 |
| M28 | 16 21 53 | 6°27'39 | 12♒ 8 | 2°29 | 3° 0 | 5°13 | 10°36 | 13°44 | 12° 9 | 15°11 | 23°24 | 4°46 | 5°11 | 7°21 | 10°10 | M28 |
| T 29 | 16 25 49 | 7°25'06 | 24°37 | 4°40 | 4°12 | 5°57 | 10°28 | 13°40 | 12° 8 | 15° 9 | 23°25 | 4°45 | 5° 7 | 7°28 | 10° 9 | T 29 |
| W30 | 16 29 46 | 8°22'32 | 7♓24 | 6°52 | 5°25 | 6°41 | 10°21 | 13°36 | 12° 8 | 15° 8 | 23°26 | 4°45 | 5° 4 | 7°34 | 10° 8 | W30 |
| T 31 | 16 33 42 | 9♊19'58 | 20♓34 | 9♊ 4 | 6♋37 | 7♉25 | 10♐13 | 13♐31 | 12♒ 7 | 15♑ 7 | 23♊28 | 4♍44 | 5♍ 1 | 7♐41 | 10♒ 7 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14n59 | 14s21 | 1n54 | 3n 6 | 2s58 | 20n36 | 0n24 | 5n 5 | 0s53 | 21s42 | 0n46 | 21s 0 | 1n42 | 17s49 | 0s39 | 21s50 | 0n45 | 16n47 | 6s31 | 8n45 | 9n 6 | 15s59 | 11s 6 | 6n53 |
| W 2 | 15 17 | 11 16 | 0 48 | 3 37 | 2 57 | 20 54 | 0 26 | 5 23 | 0 53 | 21 42 | 0 46 | 20 59 | 1 42 | 17 49 | 0 39 | 21 50 | 0 45 | 16 47 | 6 31 | 8 45 | 9 7 | 16 1 | 11 5 | 6 54 |
| T 3 | 15 35 | 7 31 | 0s22 | 4 9 | 2 56 | 21 11 | 0 29 | 5 41 | 0 52 | 21 41 | 0 46 | 20 59 | 1 42 | 17 49 | 0 39 | 21 50 | 0 45 | 16 47 | 6 30 | 8 44 | 9 9 | 16 2 | 11 4 | 6 54 |
| F 4 | 15 53 | 3 15 | 1 34 | 4 42 | 2 54 | 21 28 | 0 31 | 5 59 | 0 52 | 21 40 | 0 46 | 20 59 | 1 42 | 17 49 | 0 39 | 21 50 | 0 45 | 16 48 | 6 30 | 8 45 | 9 10 | 16 3 | 11 4 | 6 55 |
| S 5 | 16 10 | 1n21 | 2 42 | 5 16 | 2 52 | 21 44 | 0 34 | 6 17 | 0 52 | 21 40 | 0 46 | 20 58 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 48 | 6 30 | 8 46 | 9 11 | 16 4 | 11 3 | 6 55 |
| S 6 | 16 27 | 6 0 | 3 41 | 5 52 | 2 49 | 21 59 | 0 36 | 6 34 | 0 51 | 21 39 | 0 46 | 20 58 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 48 | 6 30 | 8 48 | 9 12 | 16 5 | 11 2 | 6 56 |
| M 7 | 16 44 | 10 24 | 4 27 | 6 28 | 2 46 | 22 14 | 0 39 | 6 52 | 0 51 | 21 38 | 0 46 | 20 57 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 48 | 6 30 | 8 52 | 9 13 | 16 6 | 11 2 | 6 56 |
| T 8 | 17 1 | 14 10 | 4 55 | 7 5 | 2 42 | 22 28 | 0 41 | 7 9 | 0 50 | 21 38 | 0 46 | 20 57 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 48 | 6 30 | 8 55 | 9 14 | 16 7 | 11 1 | 6 56 |
| W 9 | 17 17 | 16 59 | 5 2 | 7 44 | 2 37 | 22 42 | 0 44 | 7 27 | 0 50 | 21 37 | 0 46 | 20 57 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 49 | 6 30 | 8 59 | 9 16 | 16 9 | 11 1 | 6 57 |
| T 10 | 17 33 | 18 36 | 4 47 | 8 23 | 2 32 | 22 55 | 0 46 | 7 44 | 0 49 | 21 36 | 0 46 | 20 56 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 49 | 6 29 | 9 2 | 9 17 | 16 10 | 11 0 | 6 57 |
| F 11 | 17 48 | 18 55 | 4 14 | 9 3 | 2 26 | 23 7 | 0 49 | 8 2 | 0 49 | 21 35 | 0 46 | 20 56 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 49 | 6 29 | 9 5 | 9 18 | 16 11 | 10 59 | 6 58 |
| S 12 | 18 4 | 17 58 | 3 25 | 9 43 | 2 20 | 23 19 | 0 51 | 8 19 | 0 48 | 21 34 | 0 46 | 20 55 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 49 | 6 29 | 9 7 | 9 19 | 16 12 | 10 59 | 6 58 |
| S 13 | 18 19 | 15 58 | 2 25 | 10 25 | 2 14 | 23 30 | 0 53 | 8 36 | 0 48 | 21 34 | 0 46 | 20 55 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 49 | 6 29 | 9 8 | 9 20 | 16 13 | 10 58 | 6 59 |
| M14 | 18 34 | 13 7 | 1 19 | 11 6 | 2 7 | 23 40 | 0 56 | 8 53 | 0 47 | 21 33 | 0 46 | 20 54 | 1 42 | 17 48 | 0 39 | 21 50 | 0 45 | 16 50 | 6 29 | 9 8 | 9 21 | 16 14 | 10 58 | 6 59 |
| T 15 | 18 48 | 9 41 | 0 10 | 11 49 | 1 59 | 23 50 | 0 58 | 9 10 | 0 47 | 21 32 | 0 46 | 20 54 | 1 42 | 17 48 | 0 39 | 21 51 | 0 45 | 16 50 | 6 29 | 9 8 | 9 23 | 16 15 | 10 57 | 7 0 |
| W16 | 19 2 | 5 52 | 0n57 | 12 32 | 1 51 | 23 59 | 1 1 | 9 27 | 0 46 | 21 31 | 0 46 | 20 54 | 1 42 | 17 48 | 0 39 | 21 51 | 0 45 | 16 50 | 6 29 | 9 8 | 9 24 | 16 17 | 10 57 | 7 0 |
| T 17 | 19 16 | 1 53 | 2 0 | 13 15 | 1 42 | 24 7 | 1 3 | 9 43 | 0 46 | 21 30 | 0 46 | 20 53 | 1 42 | 17 48 | 0 39 | 21 51 | 0 45 | 16 50 | 6 29 | 9 9 | 9 25 | 16 18 | 10 57 | 7 1 |
| F 18 | 19 30 | 2s 6 | 2 56 | 13 58 | 1 34 | 24 15 | 1 5 | 10 0 | 0 45 | 21 29 | 0 46 | 20 53 | 1 42 | 17 48 | 0 39 | 21 51 | 0 45 | 16 50 | 6 29 | 9 10 | 9 26 | 16 19 | 10 56 | 7 1 |
| S 19 | 19 43 | 5 58 | 3 44 | 14 41 | 1 24 | 24 22 | 1 7 | 10 16 | 0 45 | 21 29 | 0 46 | 20 52 | 1 42 | 17 48 | 0 39 | 21 51 | 0 45 | 16 50 | 6 28 | 9 13 | 9 27 | 16 20 | 10 56 | 7 2 |
| S 20 | 19 55 | 9 32 | 4 21 | 15 25 | 1 15 | 24 28 | 1 9 | 10 33 | 0 44 | 21 28 | 0 46 | 20 52 | 1 42 | 17 48 | 0 39 | 21 51 | 0 45 | 16 51 | 6 28 | 9 17 | 9 28 | 16 21 | 10 55 | 7 2 |
| M21 | 20 8 | 12 43 | 4 46 | 16 8 | 1 5 | 24 33 | 1 12 | 10 49 | 0 44 | 21 27 | 0 45 | 20 51 | 1 42 | 17 48 | 0 40 | 21 51 | 0 45 | 16 51 | 6 28 | 9 21 | 9 30 | 16 22 | 10 55 | 7 2 |
| T 22 | 20 20 | 15 21 | 4 58 | 16 51 | 0 55 | 24 38 | 1 14 | 11 5 | 0 43 | 21 26 | 0 45 | 20 51 | 1 42 | 17 48 | 0 40 | 21 51 | 0 45 | 16 51 | 6 28 | 9 26 | 9 31 | 16 23 | 10 55 | 7 3 |
| W23 | 20 32 | 17 21 | 4 58 | 17 33 | 0 44 | 24 42 | 1 16 | 11 21 | 0 43 | 21 25 | 0 45 | 20 50 | 1 42 | 17 48 | 0 40 | 21 51 | 0 45 | 16 51 | 6 28 | 9 31 | 9 32 | 16 25 | 10 55 | 7 3 |
| T 24 | 20 43 | 18 37 | 4 44 | 18 15 | 0 34 | 24 46 | 1 18 | 11 37 | 0 42 | 21 24 | 0 45 | 20 50 | 1 42 | 17 48 | 0 40 | 21 51 | 0 45 | 16 51 | 6 28 | 9 36 | 9 33 | 16 26 | 10 54 | 7 4 |
| F 25 | 20 54 | 19 3 | 4 18 | 18 55 | 0 23 | 24 48 | 1 20 | 11 53 | 0 42 | 21 23 | 0 45 | 20 49 | 1 42 | 17 49 | 0 40 | 21 52 | 0 45 | 16 51 | 6 28 | 9 40 | 9 34 | 16 27 | 10 54 | 7 4 |
| S 26 | 21 5 | 18 39 | 3 41 | 19 35 | 0 12 | 24 50 | 1 21 | 12 8 | 0 41 | 21 22 | 0 45 | 20 49 | 1 42 | 17 49 | 0 40 | 21 52 | 0 45 | 16 52 | 6 28 | 9 43 | 9 35 | 16 28 | 10 54 | 7 5 |
| S 27 | 21 16 | 17 24 | 2 53 | 20 14 | 0 2 | 24 51 | 1 23 | 12 24 | 0 40 | 21 21 | 0 45 | 20 48 | 1 42 | 17 49 | 0 40 | 21 52 | 0 45 | 16 52 | 6 28 | 9 46 | 9 37 | 16 29 | 10 53 | 7 5 |
| M28 | 21 26 | 15 19 | 1 57 | 20 50 | 0n 9 | 24 52 | 1 25 | 12 39 | 0 40 | 21 20 | 0 45 | 20 48 | 1 42 | 17 49 | 0 40 | 21 52 | 0 45 | 16 52 | 6 27 | 9 47 | 9 38 | 16 30 | 10 53 | 7 6 |
| T 29 | 21 35 | 12 30 | 0 53 | 21 26 | 0 19 | 24 52 | 1 27 | 12 55 | 0 39 | 21 19 | 0 45 | 20 47 | 1 42 | 17 49 | 0 40 | 21 52 | 0 45 | 16 52 | 6 27 | 9 47 | 9 39 | 16 31 | 10 53 | 7 6 |
| W30 | 21 44 | 9 2 | 0s14 | 21 59 | 0 30 | 24 51 | 1 29 | 13 10 | 0 39 | 21 18 | 0 45 | 20 47 | 1 42 | 17 49 | 0 40 | 21 52 | 0 45 | 16 52 | 6 27 | 9 47 | 9 40 | 16 32 | 10 53 | 7 6 |
| T 31 | 21n53 | 5s 1 | 1s23 | 22n30 | 0n40 | 24n49 | 1n30 | 13n25 | 0s38 | 21s17 | 0n44 | 20s46 | 1n42 | 17s50 | 0s40 | 21s52 | 0n45 | 16n52 | 6s27 | 9n47 | 9n41 | 16s33 | 10s53 | 7n 7 |

Julian Day Number = 2328578.5, Delta T = 34.13 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'27, Lahiri = 19°09'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## JUNE 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 37 39 | 10♊17'22 | 4♈10 | 11♊16 | 7♋49 | 8♉ 9 | 10°R 5 | 13°R27 | 12°R 6 | 15°R 6 | 23♊29 | 4°R43 | 4♍58 | 7♐48 | 10°R 6 | F 1 |
| S 2 | 16 41 35 | 11°14'47 | 18°15 | 13°28 | 9° 2 | 8°54 | 9♐58 | 13♐22 | 12♒ 6 | 15♑ 4 | 23°31 | 4♍39 | 4°55 | 7°55 | 10♒ 5 | S 2 |
| S 3 | 16 45 32 | 12°12'10 | 2♉48 | 15°39 | 10°14 | 9°38 | 9°50 | 13°18 | 12° 5 | 15° 3 | 23°32 | 4°33 | 4°51 | 8° 1 | 10° 4 | S 3 |
| M 4 | 16 49 28 | 13° 9'33 | 17°44 | 17°50 | 11°26 | 10°21 | 9°42 | 13°13 | 12° 4 | 15° 2 | 23°33 | 4°25 | 4°48 | 8° 8 | 10° 3 | M 4 |
| T 5 | 16 53 25 | 14° 6'56 | 2♊57 | 20° 0 | 12°39 | 11° 5 | 9°35 | 13° 9 | 12° 3 | 15° 1 | 23°35 | 4°15 | 4°45 | 8°15 | 10° 1 | T 5 |
| W 6 | 16 57 21 | 15° 4'18 | 18°16 | 22° 9 | 13°51 | 11°49 | 9°27 | 13° 5 | 12° 2 | 14°59 | 23°36 | 4° 4 | 4°42 | 8°22 | 10° 0 | W 6 |
| T 7 | 17 1 18 | 16° 1'39 | 3♋30 | 24°16 | 15° 3 | 12°33 | 9°20 | 13° 0 | 12° 1 | 14°58 | 23°38 | 3°54 | 4°39 | 8°28 | 9°59 | T 7 |
| F 8 | 17 5 15 | 16°58'59 | 18°27 | 26°22 | 16°15 | 13°17 | 9°12 | 12°56 | 12° 0 | 14°56 | 23°39 | 3°46 | 4°36 | 8°35 | 9°57 | F 8 |
| S 9 | 17 9 11 | 17°56'19 | 3♌ 1 | 28°26 | 17°27 | 14° 0 | 9° 5 | 12°51 | 11°59 | 14°55 | 23°41 | 3°41 | 4°32 | 8°42 | 9°56 | S 9 |
| S 10 | 17 13 8 | 18°53'37 | 17° 6 | 0♋28 | 18°39 | 14°44 | 8°57 | 12°47 | 11°58 | 14°54 | 23°42 | 3°38 | 4°29 | 8°48 | 9°54 | S 10 |
| M11 | 17 17 4 | 19°50'55 | 0♍43 | 2°28 | 19°51 | 15°27 | 8°50 | 12°43 | 11°57 | 14°52 | 23°43 | 3°D37 | 4°26 | 8°55 | 9°52 | M11 |
| T 12 | 17 21 1 | 20°48'11 | 13°53 | 4°26 | 21° 3 | 16°11 | 8°42 | 12°38 | 11°56 | 14°51 | 23°45 | 3°37 | 4°23 | 9° 2 | 9°50 | T 12 |
| W13 | 17 24 57 | 21°45'27 | 26°39 | 6°23 | 22°15 | 16°54 | 8°35 | 12°34 | 11°55 | 14°49 | 23°46 | 3°R37 | 4°20 | 9° 9 | 9°49 | W13 |
| T 14 | 17 28 54 | 22°42'42 | 9♎ 6 | 8°16 | 23°27 | 17°38 | 8°28 | 12°30 | 11°53 | 14°48 | 23°48 | 3°36 | 4°17 | 9°15 | 9°47 | T 14 |
| F 15 | 17 32 51 | 23°39'57 | 21°19 | 10° 8 | 24°39 | 18°21 | 8°21 | 12°25 | 11°52 | 14°46 | 23°49 | 3°33 | 4°13 | 9°22 | 9°45 | F 15 |
| S 16 | 17 36 47 | 24°37'10 | 3♏22 | 11°57 | 25°51 | 19° 4 | 8°13 | 12°21 | 11°51 | 14°45 | 23°51 | 3°27 | 4°10 | 9°29 | 9°43 | S 16 |
| S 17 | 17 40 44 | 25°34'23 | 15°18 | 13°45 | 27° 2 | 19°47 | 8° 6 | 12°17 | 11°49 | 14°43 | 23°52 | 3°19 | 4° 7 | 9°35 | 9°41 | S 17 |
| M18 | 17 44 40 | 26°31'36 | 27°11 | 15°29 | 28°14 | 20°30 | 7°59 | 12°12 | 11°48 | 14°42 | 23°54 | 3° 9 | 4° 4 | 9°42 | 9°39 | M18 |
| T 19 | 17 48 37 | 27°28'48 | 9♐ 3 | 17°12 | 29°26 | 21°13 | 7°53 | 12° 8 | 11°46 | 14°40 | 23°55 | 2°57 | 4° 1 | 9°49 | 9°37 | T 19 |
| W20 | 17 52 33 | 28°25'59 | 20°57 | 18°52 | 0♌37 | 21°56 | 7°46 | 12° 4 | 11°45 | 14°39 | 23°56 | 2°45 | 3°57 | 9°56 | 9°35 | W20 |
| T 21 | 17 56 30 | 29°23'11 | 2♑53 | 20°30 | 1°49 | 22°39 | 7°39 | 12° 0 | 11°43 | 14°37 | 23°58 | 2°34 | 3°54 | 10° 2 | 9°32 | T 21 |
| F 22 | 18 0 26 | 0♋20'22 | 14°53 | 22° 6 | 3° 0 | 23°22 | 7°33 | 11°56 | 11°42 | 14°36 | 23°59 | 2°24 | 3°51 | 10° 9 | 9°30 | F 22 |
| S 23 | 18 4 23 | 1°17'33 | 26°59 | 23°39 | 4°12 | 24° 5 | 7°26 | 11°52 | 11°40 | 14°34 | 24° 1 | 2°17 | 3°48 | 10°16 | 9°28 | S 23 |
| S 24 | 18 8 20 | 2°14'43 | 9♒12 | 25°10 | 5°23 | 24°47 | 7°20 | 11°48 | 11°38 | 14°33 | 24° 2 | 2°12 | 3°45 | 10°23 | 9°25 | S 24 |
| M25 | 18 12 16 | 3°11'54 | 21°35 | 26°38 | 6°34 | 25°30 | 7°14 | 11°44 | 11°37 | 14°31 | 24° 4 | 2° 9 | 3°42 | 10°29 | 9°23 | M25 |
| T 26 | 18 16 13 | 4° 9'05 | 4♓11 | 28° 4 | 7°45 | 26°13 | 7° 7 | 11°40 | 11°35 | 14°30 | 24° 5 | 2°D 9 | 3°38 | 10°36 | 9°21 | T 26 |
| W27 | 18 20 9 | 5° 6'16 | 17° 2 | 29°28 | 8°57 | 26°55 | 7° 1 | 11°36 | 11°33 | 14°28 | 24° 6 | 2° 9 | 3°35 | 10°43 | 9°18 | W27 |
| T 28 | 18 24 6 | 6° 3'27 | 0♈12 | 0♌49 | 10° 8 | 27°38 | 6°55 | 11°32 | 11°32 | 14°26 | 24° 8 | 2°R10 | 3°32 | 10°49 | 9°15 | T 28 |
| F 29 | 18 28 2 | 7° 0'38 | 13°45 | 2° 8 | 11°19 | 28°20 | 6°50 | 11°28 | 11°30 | 14°25 | 24° 9 | 2°10 | 3°29 | 10°56 | 9°13 | F 29 |
| S 30 | 18 31 59 | 7♋57'50 | 27♈41 | 3♌24 | 12♌30 | 29♉ 2 | 6♐44 | 11♐25 | 11♒28 | 14♑23 | 24♊11 | 2♍ 8 | 3♍26 | 11♐ 3 | 9♒10 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 22n 2 | 0s37 | 2s29 | 22n59 | 0n49 | 24n47 | 1n32 | 13n39 | 0s38 | 21s16 | 0n44 | 20s46 | 1n42 | 17s50 | 0s40 | 21s52 | 0n45 | 16n53 | 6s27 | 9n48 | 9n42 | 16s34 | 10s53 | 7n 7 |
| S 2 | 22 10 | 3n57 | 3 28 | 23 25 | 0 58 | 24 43 | 1 33 | 13 54 | 0 37 | 21 15 | 0 44 | 20 46 | 1 42 | 17 50 | 0 40 | 21 53 | 0 45 | 16 53 | 6 27 | 9 49 | 9 44 | 16 36 | 10 53 | 7 8 |
| S 3 | 22 18 | 8 27 | 4 16 | 23 49 | 1 7 | 24 40 | 1 35 | 14 9 | 0 36 | 21 14 | 0 44 | 20 45 | 1 42 | 17 50 | 0 40 | 21 53 | 0 45 | 16 53 | 6 27 | 9 51 | 9 45 | 16 37 | 10 52 | 7 8 |
| M 4 | 22 25 | 12 32 | 4 48 | 24 10 | 1 15 | 24 35 | 1 36 | 14 23 | 0 36 | 21 13 | 0 44 | 20 45 | 1 42 | 17 51 | 0 40 | 21 53 | 0 45 | 16 53 | 6 27 | 9 55 | 9 46 | 16 38 | 10 52 | 7 8 |
| T 5 | 22 32 | 15 52 | 5 1 | 24 29 | 1 23 | 24 30 | 1 38 | 14 37 | 0 35 | 21 12 | 0 44 | 20 44 | 1 42 | 17 51 | 0 40 | 21 53 | 0 45 | 16 53 | 6 27 | 9 58 | 9 47 | 16 39 | 10 52 | 7 9 |
| W 6 | 22 39 | 18 7 | 4 52 | 24 44 | 1 30 | 24 24 | 1 39 | 14 52 | 0 35 | 21 11 | 0 44 | 20 44 | 1 42 | 17 51 | 0 40 | 21 53 | 0 45 | 16 53 | 6 27 | 10 2 | 9 48 | 16 40 | 10 52 | 7 9 |
| T 7 | 22 45 | 19 4 | 4 22 | 24 57 | 1 36 | 24 17 | 1 40 | 15 5 | 0 34 | 21 10 | 0 44 | 20 43 | 1 42 | 17 52 | 0 40 | 21 53 | 0 45 | 16 53 | 6 27 | 10 6 | 9 49 | 16 41 | 10 52 | 7 10 |
| F 8 | 22 51 | 18 40 | 3 35 | 25 7 | 1 42 | 24 10 | 1 41 | 15 19 | 0 33 | 21 9 | 0 43 | 20 43 | 1 41 | 17 52 | 0 40 | 21 53 | 0 45 | 16 53 | 6 27 | 10 9 | 9 51 | 16 42 | 10 52 | 7 10 |
| S 9 | 22 56 | 17 1 | 2 35 | 25 15 | 1 46 | 24 2 | 1 42 | 15 33 | 0 33 | 21 8 | 0 43 | 20 42 | 1 41 | 17 52 | 0 40 | 21 54 | 0 45 | 16 54 | 6 27 | 10 10 | 9 52 | 16 43 | 10 52 | 7 10 |
| S 10 | 23 1 | 14 22 | 1 26 | 25 19 | 1 50 | 23 53 | 1 43 | 15 46 | 0 32 | 21 7 | 0 43 | 20 42 | 1 41 | 17 53 | 0 40 | 21 54 | 0 45 | 16 54 | 6 27 | 10 11 | 9 53 | 16 44 | 10 52 | 7 11 |
| M11 | 23 5 | 11 0 | 0 15 | 25 21 | 1 54 | 23 44 | 1 44 | 16 0 | 0 31 | 21 6 | 0 43 | 20 41 | 1 41 | 17 53 | 0 40 | 21 54 | 0 45 | 16 54 | 6 26 | 10 12 | 9 54 | 16 45 | 10 52 | 7 11 |
| T 12 | 23 10 | 7 11 | 0n54 | 25 21 | 1 56 | 23 34 | 1 45 | 16 13 | 0 31 | 21 5 | 0 43 | 20 41 | 1 41 | 17 53 | 0 40 | 21 54 | 0 45 | 16 54 | 6 26 | 10 12 | 9 55 | 16 46 | 10 53 | 7 12 |
| W13 | 23 13 | 3 9 | 1 59 | 25 18 | 1 58 | 23 23 | 1 46 | 16 26 | 0 30 | 21 4 | 0 43 | 20 40 | 1 41 | 17 54 | 0 40 | 21 54 | 0 45 | 16 54 | 6 26 | 10 12 | 9 56 | 16 47 | 10 53 | 7 12 |
| T 14 | 23 17 | 0s55 | 2 57 | 25 12 | 1 59 | 23 11 | 1 47 | 16 39 | 0 30 | 21 3 | 0 43 | 20 40 | 1 41 | 17 54 | 0 40 | 21 54 | 0 45 | 16 54 | 6 26 | 10 12 | 9 58 | 16 48 | 10 53 | 7 12 |
| F 15 | 23 20 | 4 51 | 3 45 | 25 5 | 2 0 | 22 59 | 1 47 | 16 51 | 0 29 | 21 2 | 0 42 | 20 39 | 1 41 | 17 54 | 0 40 | 21 55 | 0 45 | 16 54 | 6 26 | 10 13 | 9 59 | 16 50 | 10 53 | 7 13 |
| S 16 | 23 22 | 8 33 | 4 22 | 24 56 | 1 59 | 22 47 | 1 48 | 17 4 | 0 28 | 21 1 | 0 42 | 20 39 | 1 41 | 17 55 | 0 40 | 21 55 | 0 45 | 16 54 | 6 26 | 10 15 | 10 0 | 16 51 | 10 53 | 7 13 |
| S 17 | 23 24 | 11 52 | 4 48 | 24 44 | 1 58 | 22 33 | 1 48 | 17 16 | 0 28 | 21 0 | 0 42 | 20 39 | 1 41 | 17 55 | 0 40 | 21 55 | 0 45 | 16 55 | 6 26 | 10 18 | 10 1 | 16 52 | 10 53 | 7 13 |
| M18 | 23 26 | 14 41 | 5 1 | 24 31 | 1 57 | 22 19 | 1 49 | 17 28 | 0 27 | 20 59 | 0 42 | 20 38 | 1 40 | 17 56 | 0 40 | 21 55 | 0 45 | 16 55 | 6 26 | 10 22 | 10 2 | 16 53 | 10 54 | 7 14 |
| T 19 | 23 27 | 16 54 | 5 1 | 24 16 | 1 54 | 22 5 | 1 49 | 17 40 | 0 26 | 20 58 | 0 42 | 20 38 | 1 40 | 17 56 | 0 41 | 21 55 | 0 45 | 16 55 | 6 26 | 10 26 | 10 3 | 16 54 | 10 54 | 7 14 |
| W20 | 23 28 | 18 23 | 4 47 | 23 59 | 1 51 | 21 50 | 1 49 | 17 52 | 0 26 | 20 58 | 0 42 | 20 37 | 1 40 | 17 57 | 0 41 | 21 55 | 0 45 | 16 55 | 6 26 | 10 31 | 10 4 | 16 55 | 10 54 | 7 14 |
| T 21 | 23 29 | 19 5 | 4 22 | 23 41 | 1 48 | 21 34 | 1 49 | 18 4 | 0 25 | 20 57 | 0 41 | 20 37 | 1 40 | 17 57 | 0 41 | 21 56 | 0 45 | 16 55 | 6 26 | 10 35 | 10 6 | 16 56 | 10 54 | 7 15 |
| F 22 | 23 29 | 18 56 | 3 44 | 23 22 | 1 43 | 21 18 | 1 49 | 18 15 | 0 24 | 20 56 | 0 41 | 20 36 | 1 40 | 17 57 | 0 41 | 21 56 | 0 45 | 16 55 | 6 26 | 10 38 | 10 7 | 16 57 | 10 55 | 7 15 |
| S 23 | 23 28 | 17 55 | 2 56 | 23 1 | 1 38 | 21 1 | 1 49 | 18 27 | 0 24 | 20 55 | 0 41 | 20 36 | 1 40 | 17 58 | 0 41 | 21 56 | 0 45 | 16 55 | 6 26 | 10 41 | 10 8 | 16 58 | 10 55 | 7 15 |
| S 24 | 23 28 | 16 4 | 1 59 | 22 39 | 1 33 | 20 43 | 1 49 | 18 38 | 0 23 | 20 54 | 0 41 | 20 36 | 1 40 | 17 58 | 0 41 | 21 56 | 0 45 | 16 55 | 6 26 | 10 43 | 10 9 | 16 59 | 10 55 | 7 16 |
| M25 | 23 27 | 13 27 | 0 56 | 22 17 | 1 26 | 20 25 | 1 49 | 18 49 | 0 22 | 20 53 | 0 41 | 20 35 | 1 40 | 17 59 | 0 41 | 21 56 | 0 45 | 16 55 | 6 26 | 10 44 | 10 10 | 17 0 | 10 55 | 7 16 |
| T 26 | 23 25 | 10 10 | 0s11 | 21 53 | 1 20 | 20 7 | 1 49 | 18 59 | 0 22 | 20 52 | 0 40 | 20 35 | 1 39 | 17 59 | 0 41 | 21 56 | 0 45 | 16 55 | 6 26 | 10 44 | 10 11 | 17 1 | 10 56 | 7 16 |
| W27 | 23 23 | 6 20 | 1 19 | 21 29 | 1 12 | 19 48 | 1 49 | 19 10 | 0 21 | 20 52 | 0 40 | 20 34 | 1 39 | 18 0 | 0 41 | 21 57 | 0 45 | 16 55 | 6 26 | 10 43 | 10 13 | 17 2 | 10 56 | 7 16 |
| T 28 | 23 20 | 2 8 | 2 25 | 21 4 | 1 5 | 19 28 | 1 48 | 19 20 | 0 20 | 20 51 | 0 40 | 20 34 | 1 39 | 18 0 | 0 41 | 21 57 | 0 45 | 16 56 | 6 26 | 10 43 | 10 14 | 17 3 | 10 57 | 7 17 |
| F 29 | 23 18 | 2n18 | 3 24 | 20 38 | 0 56 | 19 8 | 1 48 | 19 30 | 0 19 | 20 50 | 0 40 | 20 34 | 1 39 | 18 1 | 0 41 | 21 57 | 0 45 | 16 56 | 6 26 | 10 43 | 10 15 | 17 4 | 10 57 | 7 17 |
| S 30 | 23n14 | 6n44 | 4s13 | 20n12 | 0n47 | 18n48 | 1n47 | 19n40 | 0s19 | 20s49 | 0n40 | 20s33 | 1n39 | 18s 2 | 0s41 | 21s57 | 0n45 | 16n56 | 6s26 | 10n44 | 10n16 | 17s 5 | 10s57 | 7n17 |

Julian Day Number = 2328609.5, Delta T = 34.07 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'32, Lahiri = 19°09'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## JULY 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 35 55 | 8♋55'02 | 12♉ 1 | 4♌38 | 13♌41 | 29♉45 | 6°R39 | 11°R21 | 11°R26 | 14°R22 | 24♊12 | 2°R 5 | 3♍22 | 11♐10 | 9°R 8 | S 1 |
| M 2 | 18 39 52 | 9°52'14 | 26°44 | 5°49 | 14°52 | 0♊27 | 6♐33 | 11♐17 | 11♒24 | 14♑20 | 24°13 | 1♍59 | 3°19 | 11°16 | 9♒ 5 | M 2 |
| T 3 | 18 43 49 | 10°49'27 | 11♊42 | 6°57 | 16° 3 | 1° 9 | 6°28 | 11°14 | 11°22 | 14°18 | 24°15 | 1°52 | 3°16 | 11°23 | 9° 2 | T 3 |
| W 4 | 18 47 45 | 11°46'40 | 26°49 | 8° 2 | 17°14 | 1°51 | 6°23 | 11°10 | 11°20 | 14°17 | 24°16 | 1°45 | 3°13 | 11°30 | 8°59 | W 4 |
| T 5 | 18 51 42 | 12°43'54 | 11♋54 | 9° 5 | 18°24 | 2°33 | 6°18 | 11° 7 | 11°18 | 14°15 | 24°18 | 1°38 | 3°10 | 11°37 | 8°56 | T 5 |
| F 6 | 18 55 38 | 13°41'07 | 26°47 | 10° 4 | 19°35 | 3°15 | 6°13 | 11° 4 | 11°16 | 14°13 | 24°19 | 1°32 | 3° 7 | 11°43 | 8°54 | F 6 |
| S 7 | 18 59 35 | 14°38'21 | 11♌21 | 11° 1 | 20°46 | 3°57 | 6° 9 | 11° 0 | 11°14 | 14°12 | 24°20 | 1°28 | 3° 3 | 11°50 | 8°51 | S 7 |
| S 8 | 19 3 31 | 15°35'34 | 25°30 | 11°54 | 21°56 | 4°39 | 6° 4 | 10°57 | 11°12 | 14°10 | 24°22 | 1°D27 | 3° 0 | 11°57 | 8°48 | S 8 |
| M 9 | 19 7 28 | 16°32'48 | 9♍12 | 12°44 | 23° 7 | 5°20 | 6° 0 | 10°54 | 11°10 | 14° 9 | 24°23 | 1°27 | 2°57 | 12° 3 | 8°45 | M 9 |
| T 10 | 19 11 24 | 17°30'02 | 22°27 | 13°31 | 24°17 | 6° 2 | 5°56 | 10°51 | 11° 8 | 14° 7 | 24°24 | 1°28 | 2°54 | 12°10 | 8°42 | T 10 |
| W11 | 19 15 21 | 18°27'16 | 5♎17 | 14°14 | 25°28 | 6°44 | 5°52 | 10°48 | 11° 6 | 14° 5 | 24°26 | 1°29 | 2°51 | 12°17 | 8°39 | W11 |
| T 12 | 19 19 18 | 19°24'30 | 17°47 | 14°53 | 26°38 | 7°25 | 5°48 | 10°45 | 11° 4 | 14° 4 | 24°27 | 1°R30 | 2°48 | 12°24 | 8°36 | T 12 |
| F 13 | 19 23 14 | 20°21'44 | 0♏ 1 | 15°28 | 27°48 | 8° 7 | 5°44 | 10°42 | 11° 1 | 14° 2 | 24°28 | 1°30 | 2°44 | 12°30 | 8°33 | F 13 |
| S 14 | 19 27 11 | 21°18'58 | 12° 3 | 16° 0 | 28°58 | 8°48 | 5°41 | 10°39 | 10°59 | 14° 1 | 24°30 | 1°27 | 2°41 | 12°37 | 8°30 | S 14 |
| S 15 | 19 31 7 | 22°16'13 | 23°59 | 16°27 | 0♍ 8 | 9°29 | 5°37 | 10°36 | 10°57 | 13°59 | 24°31 | 1°24 | 2°38 | 12°44 | 8°26 | S 15 |
| M16 | 19 35 4 | 23°13'28 | 5♐51 | 16°49 | 1°18 | 10°10 | 5°34 | 10°34 | 10°55 | 13°57 | 24°32 | 1°18 | 2°35 | 12°50 | 8°23 | M16 |
| T 17 | 19 39 0 | 24°10'43 | 17°44 | 17° 8 | 2°28 | 10°52 | 5°31 | 10°31 | 10°53 | 13°56 | 24°33 | 1°12 | 2°32 | 12°57 | 8°20 | T 17 |
| W18 | 19 42 57 | 25° 7'59 | 29°40 | 17°21 | 3°38 | 11°33 | 5°28 | 10°28 | 10°50 | 13°54 | 24°35 | 1° 6 | 2°28 | 13° 4 | 8°17 | W18 |
| T 19 | 19 46 53 | 26° 5'15 | 11♑42 | 17°30 | 4°48 | 12°14 | 5°26 | 10°26 | 10°48 | 13°53 | 24°36 | 0°59 | 2°25 | 13°11 | 8°14 | T 19 |
| F 20 | 19 50 50 | 27° 2'32 | 23°51 | 17°R34 | 5°57 | 12°55 | 5°23 | 10°24 | 10°46 | 13°51 | 24°37 | 0°54 | 2°22 | 13°17 | 8°11 | F 20 |
| S 21 | 19 54 47 | 27°59'49 | 6♒ 8 | 17°33 | 7° 7 | 13°36 | 5°21 | 10°21 | 10°43 | 13°49 | 24°39 | 0°50 | 2°19 | 13°24 | 8° 7 | S 21 |
| S 22 | 19 58 43 | 28°57'07 | 18°36 | 17°27 | 8°16 | 14°16 | 5°19 | 10°19 | 10°41 | 13°48 | 24°40 | 0°48 | 2°16 | 13°31 | 8° 4 | S 22 |
| M23 | 20 2 40 | 29°54'26 | 1♓14 | 17°16 | 9°26 | 14°57 | 5°17 | 10°17 | 10°39 | 13°46 | 24°41 | 0°D48 | 2°13 | 13°38 | 8° 1 | M23 |
| T 24 | 20 6 36 | 0♌51'46 | 14° 5 | 17° 0 | 10°35 | 15°38 | 5°15 | 10°15 | 10°36 | 13°45 | 24°42 | 0°48 | 2° 9 | 13°44 | 7°58 | T 24 |
| W25 | 20 10 33 | 1°49'07 | 27° 9 | 16°39 | 11°44 | 16°18 | 5°14 | 10°13 | 10°34 | 13°43 | 24°43 | 0°50 | 2° 6 | 13°51 | 7°54 | W25 |
| T 26 | 20 14 29 | 2°46'28 | 10♈29 | 16°13 | 12°53 | 16°59 | 5°12 | 10°11 | 10°32 | 13°42 | 24°45 | 0°51 | 2° 3 | 13°58 | 7°51 | T 26 |
| F 27 | 20 18 26 | 3°43'51 | 24° 5 | 15°42 | 14° 2 | 17°39 | 5°11 | 10°10 | 10°29 | 13°40 | 24°46 | 0°52 | 2° 0 | 14° 4 | 7°48 | F 27 |
| S 28 | 20 22 22 | 4°41'15 | 7♉58 | 15° 8 | 15°11 | 18°20 | 5°10 | 10° 8 | 10°27 | 13°39 | 24°47 | 0°R52 | 1°57 | 14°11 | 7°45 | S 28 |
| S 29 | 20 26 19 | 5°38'41 | 22° 9 | 14°30 | 16°20 | 19° 0 | 5° 9 | 10° 6 | 10°25 | 13°37 | 24°48 | 0°52 | 1°54 | 14°18 | 7°41 | S 29 |
| M30 | 20 30 16 | 6°36'07 | 6♊34 | 13°48 | 17°29 | 19°40 | 5° 9 | 10° 5 | 10°22 | 13°36 | 24°49 | 0°50 | 1°50 | 14°25 | 7°38 | M30 |
| T 31 | 20 34 12 | 7♌33'35 | 21♊12 | 13♌ 4 | 18♍37 | 20♊20 | 5♐ 8 | 10♐ 3 | 10♒20 | 13♑34 | 24♊50 | 0♍47 | 1♍47 | 14♐31 | 7♒35 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n11 | 10n54 | 4s48 | 19n45 | 0n38 | 18n27 | 1n46 | 19n50 | 0s18 | 20s48 | 0n39 | 20s33 | 1n39 | 18s 2 | 0s41 | 21s57 | 0n45 | 16n56 | 6s26 | 10n45 | 10n17 | 17s 6 | 10s58 | 7n17 |
| M 2 | 23 7 | 14 30 | 5 5 | 19 19 | 0 28 | 18 5 | 1 46 | 20 0 | 0 17 | 20 48 | 0 39 | 20 33 | 1 39 | 18 3 | 0 41 | 21 57 | 0 45 | 16 56 | 6 26 | 10 47 | 10 18 | 17 7 | 10 58 | 7 18 |
| T 3 | 23 2 | 17 14 | 5 2 | 18 52 | 0 18 | 17 43 | 1 45 | 20 9 | 0 17 | 20 47 | 0 39 | 20 32 | 1 38 | 18 3 | 0 41 | 21 58 | 0 45 | 16 56 | 6 26 | 10 50 | 10 19 | 17 8 | 10 59 | 7 18 |
| W 4 | 22 57 | 18 49 | 4 38 | 18 25 | 0 7 | 17 21 | 1 44 | 20 19 | 0 16 | 20 46 | 0 39 | 20 32 | 1 38 | 18 4 | 0 41 | 21 58 | 0 45 | 16 56 | 6 26 | 10 52 | 10 21 | 17 9 | 10 59 | 7 18 |
| T 5 | 22 52 | 19 3 | 3 55 | 17 57 | 0s 4 | 16 58 | 1 43 | 20 28 | 0 15 | 20 46 | 0 39 | 20 32 | 1 38 | 18 4 | 0 41 | 21 58 | 0 45 | 16 56 | 6 26 | 10 55 | 10 22 | 17 10 | 11 0 | 7 18 |
| F 6 | 22 47 | 17 58 | 2 56 | 17 31 | 0 15 | 16 35 | 1 42 | 20 36 | 0 14 | 20 45 | 0 38 | 20 31 | 1 38 | 18 5 | 0 41 | 21 58 | 0 45 | 16 56 | 6 26 | 10 57 | 10 23 | 17 11 | 11 0 | 7 19 |
| S 7 | 22 40 | 15 42 | 1 46 | 17 4 | 0 27 | 16 11 | 1 40 | 20 45 | 0 14 | 20 45 | 0 38 | 20 31 | 1 38 | 18 5 | 0 41 | 21 58 | 0 45 | 16 56 | 6 26 | 10 58 | 10 24 | 17 12 | 11 1 | 7 19 |
| S 8 | 22 34 | 12 32 | 0 32 | 16 37 | 0 39 | 15 47 | 1 39 | 20 53 | 0 13 | 20 44 | 0 38 | 20 31 | 1 38 | 18 6 | 0 41 | 21 59 | 0 45 | 16 56 | 6 26 | 10 59 | 10 25 | 17 13 | 11 1 | 7 19 |
| M 9 | 22 27 | 8 47 | 0n42 | 16 11 | 0 52 | 15 22 | 1 38 | 21 2 | 0 12 | 20 43 | 0 38 | 20 31 | 1 37 | 18 7 | 0 41 | 21 59 | 0 45 | 16 56 | 6 26 | 10 59 | 10 26 | 17 14 | 11 2 | 7 19 |
| T 10 | 22 20 | 4 42 | 1 51 | 15 46 | 1 5 | 14 58 | 1 36 | 21 10 | 0 11 | 20 43 | 0 38 | 20 30 | 1 37 | 18 7 | 0 41 | 21 59 | 0 45 | 16 56 | 6 26 | 10 58 | 10 27 | 17 15 | 11 3 | 7 19 |
| W11 | 22 12 | 0 32 | 2 53 | 15 21 | 1 18 | 14 32 | 1 35 | 21 18 | 0 11 | 20 42 | 0 37 | 20 30 | 1 37 | 18 8 | 0 41 | 21 59 | 0 45 | 16 56 | 6 26 | 10 58 | 10 29 | 17 16 | 11 3 | 7 19 |
| T 12 | 22 4 | 3s32 | 3 44 | 14 57 | 1 31 | 14 7 | 1 33 | 21 25 | 0 10 | 20 42 | 0 37 | 20 30 | 1 37 | 18 8 | 0 41 | 21 59 | 0 45 | 16 56 | 6 26 | 10 58 | 10 30 | 17 17 | 11 4 | 7 20 |
| F 13 | 21 56 | 7 22 | 4 25 | 14 34 | 1 45 | 13 41 | 1 31 | 21 33 | 0 9 | 20 41 | 0 37 | 20 30 | 1 37 | 18 9 | 0 41 | 21 59 | 0 45 | 16 56 | 6 26 | 10 58 | 10 31 | 17 18 | 11 4 | 7 20 |
| S 14 | 21 47 | 10 50 | 4 53 | 14 11 | 1 58 | 13 15 | 1 29 | 21 40 | 0 8 | 20 41 | 0 37 | 20 29 | 1 37 | 18 10 | 0 41 | 22 0 | 0 45 | 16 56 | 6 26 | 10 59 | 10 32 | 17 19 | 11 5 | 7 20 |
| S 15 | 21 38 | 13 50 | 5 7 | 13 50 | 2 12 | 12 48 | 1 27 | 21 47 | 0 8 | 20 41 | 0 37 | 20 29 | 1 36 | 18 10 | 0 41 | 22 0 | 0 45 | 16 57 | 6 26 | 11 0 | 10 33 | 17 20 | 11 6 | 7 20 |
| M16 | 21 29 | 16 15 | 5 9 | 13 30 | 2 26 | 12 21 | 1 25 | 21 54 | 0 7 | 20 40 | 0 36 | 20 29 | 1 36 | 18 11 | 0 41 | 22 0 | 0 45 | 16 57 | 6 26 | 11 2 | 10 34 | 17 21 | 11 6 | 7 20 |
| T 17 | 21 19 | 17 59 | 4 57 | 13 12 | 2 40 | 11 54 | 1 23 | 22 1 | 0 6 | 20 40 | 0 36 | 20 29 | 1 36 | 18 12 | 0 41 | 22 0 | 0 45 | 16 57 | 6 26 | 11 4 | 10 35 | 17 22 | 11 7 | 7 20 |
| W18 | 21 9 | 18 56 | 4 33 | 12 54 | 2 53 | 11 27 | 1 21 | 22 7 | 0 5 | 20 40 | 0 36 | 20 29 | 1 36 | 18 12 | 0 41 | 22 0 | 0 45 | 16 57 | 6 26 | 11 6 | 10 37 | 17 23 | 11 8 | 7 20 |
| T 19 | 20 58 | 19 3 | 3 56 | 12 39 | 3 7 | 10 59 | 1 19 | 22 13 | 0 5 | 20 39 | 0 36 | 20 28 | 1 36 | 18 13 | 0 41 | 22 1 | 0 45 | 16 57 | 6 26 | 11 8 | 10 38 | 17 24 | 11 8 | 7 20 |
| F 20 | 20 47 | 18 17 | 3 8 | 12 25 | 3 20 | 10 31 | 1 16 | 22 19 | 0 4 | 20 39 | 0 36 | 20 28 | 1 35 | 18 14 | 0 41 | 22 1 | 0 45 | 16 57 | 6 26 | 11 10 | 10 39 | 17 25 | 11 9 | 7 21 |
| S 21 | 20 36 | 16 40 | 2 11 | 12 13 | 3 33 | 10 3 | 1 14 | 22 25 | 0 3 | 20 39 | 0 35 | 20 28 | 1 35 | 18 14 | 0 41 | 22 1 | 0 45 | 16 57 | 6 26 | 11 12 | 10 40 | 17 26 | 11 10 | 7 21 |
| S 22 | 20 24 | 14 14 | 1 6 | 12 3 | 3 45 | 9 35 | 1 11 | 22 31 | 0 2 | 20 39 | 0 35 | 20 28 | 1 35 | 18 15 | 0 41 | 22 1 | 0 45 | 16 57 | 6 26 | 11 12 | 10 41 | 17 27 | 11 11 | 7 21 |
| M23 | 20 12 | 11 6 | 0s 2 | 11 55 | 3 57 | 9 6 | 1 8 | 22 36 | 0 2 | 20 39 | 0 35 | 20 28 | 1 35 | 18 15 | 0 41 | 22 1 | 0 45 | 16 57 | 6 26 | 11 13 | 10 42 | 17 28 | 11 11 | 7 21 |
| T 24 | 20 0 | 7 23 | 1 12 | 11 50 | 4 8 | 8 37 | 1 6 | 22 42 | 0 1 | 20 39 | 0 35 | 20 28 | 1 35 | 18 16 | 0 41 | 22 1 | 0 45 | 16 57 | 6 26 | 11 12 | 10 43 | 17 29 | 11 12 | 7 21 |
| W25 | 19 47 | 3 16 | 2 19 | 11 46 | 4 18 | 8 8 | 1 3 | 22 47 | 0n 0 | 20 39 | 0 35 | 20 28 | 1 34 | 18 17 | 0 41 | 22 2 | 0 45 | 16 57 | 6 26 | 11 12 | 10 45 | 17 30 | 11 13 | 7 21 |
| T 26 | 19 34 | 1n 5 | 3 21 | 11 45 | 4 27 | 7 39 | 1 0 | 22 51 | 0 1 | 20 39 | 0 34 | 20 28 | 1 34 | 18 17 | 0 41 | 22 2 | 0 45 | 16 57 | 6 26 | 11 11 | 10 46 | 17 31 | 11 14 | 7 21 |
| F 27 | 19 21 | 5 27 | 4 12 | 11 46 | 4 35 | 7 10 | 0 57 | 22 56 | 0 2 | 20 39 | 0 34 | 20 28 | 1 34 | 18 18 | 0 41 | 22 2 | 0 45 | 16 57 | 6 26 | 11 11 | 10 47 | 17 32 | 11 15 | 7 21 |
| S 28 | 19 7 | 9 37 | 4 49 | 11 50 | 4 42 | 6 40 | 0 54 | 23 0 | 0 2 | 20 39 | 0 34 | 20 28 | 1 34 | 18 19 | 0 41 | 22 2 | 0 45 | 16 57 | 6 26 | 11 11 | 10 48 | 17 33 | 11 15 | 7 21 |
| S 29 | 18 54 | 13 20 | 5 10 | 11 55 | 4 47 | 6 11 | 0 50 | 23 5 | 0 3 | 20 39 | 0 34 | 20 28 | 1 34 | 18 19 | 0 41 | 22 2 | 0 45 | 16 57 | 6 26 | 11 11 | 10 49 | 17 34 | 11 16 | 7 21 |
| M30 | 18 39 | 16 19 | 5 12 | 12 4 | 4 51 | 5 41 | 0 47 | 23 9 | 0 4 | 20 39 | 0 33 | 20 27 | 1 33 | 18 20 | 0 41 | 22 2 | 0 45 | 16 57 | 6 26 | 11 12 | 10 50 | 17 35 | 11 17 | 7 21 |
| T 31 | 18n25 | 18n17 | 4s54 | 12n14 | 4s53 | 5n11 | 0n44 | 23n13 | 0n 5 | 20s39 | 0n33 | 20s27 | 1n33 | 18s21 | 0s41 | 22s 3 | 0n45 | 16n57 | 6s26 | 11n13 | 10n51 | 17s36 | 11s18 | 7n21 |

Julian Day Number = 2328639.5, Delta T = 34.02 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'36, Lahiri = 19°09'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## AUGUST 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 38 9 | 8♌31'05 | 5♋55 | 12°R18 | 19♍46 | 21♊ 1 | 5°R 8 | 10°R 2 | 10°R17 | 13°R33 | 24♊51 | 0°R44 | 1♍44 | 14♐38 | 7°R31 | W 1 |
| T 2 | 20 42 5 | 9°28'35 | 20°39 | 11♌31 | 20°54 | 21°41 | 5°D 8 | 10♐ 1 | 10♒15 | 13♑31 | 24°52 | 0♍41 | 1°41 | 14°45 | 7♒28 | T 2 |
| F 3 | 20 46 2 | 10°26'06 | 5♌14 | 10°44 | 22° 3 | 22°21 | 5♐ 8 | 10° 0 | 10°13 | 13°30 | 24°53 | 0°39 | 1°38 | 14°51 | 7°25 | F 3 |
| S 4 | 20 49 58 | 11°23'39 | 19°35 | 9°57 | 23°11 | 23° 0 | 5° 8 | 9°59 | 10°10 | 13°29 | 24°55 | 0°38 | 1°34 | 14°58 | 7°21 | S 4 |
| S 5 | 20 53 55 | 12°21'13 | 3♍37 | 9°12 | 24°19 | 23°40 | 5° 9 | 9°58 | 10° 8 | 13°27 | 24°56 | 0°D38 | 1°31 | 15° 5 | 7°18 | S 5 |
| M 6 | 20 57 51 | 13°18'47 | 17°16 | 8°29 | 25°27 | 24°20 | 5°10 | 9°57 | 10° 6 | 13°26 | 24°57 | 0°38 | 1°28 | 15°12 | 7°15 | M 6 |
| T 7 | 21 1 48 | 14°16'23 | 0♎32 | 7°49 | 26°35 | 24°59 | 5°10 | 9°56 | 10° 3 | 13°25 | 24°58 | 0°39 | 1°25 | 15°18 | 7°12 | T 7 |
| W 8 | 21 5 45 | 15°13'59 | 13°25 | 7°14 | 27°43 | 25°39 | 5°12 | 9°56 | 10° 1 | 13°23 | 24°59 | 0°41 | 1°22 | 15°25 | 7° 8 | W 8 |
| T 9 | 21 9 41 | 16°11'37 | 25°58 | 6°43 | 28°50 | 26°18 | 5°13 | 9°55 | 9°58 | 13°22 | 25° 0 | 0°42 | 1°19 | 15°32 | 7° 5 | T 9 |
| F 10 | 21 13 38 | 17° 9'15 | 8♏14 | 6°18 | 29°58 | 26°58 | 5°14 | 9°55 | 9°56 | 13°21 | 25° 1 | 0°43 | 1°15 | 15°38 | 7° 2 | F 10 |
| S 11 | 21 17 34 | 18° 6'55 | 20°18 | 5°59 | 1♎ 5 | 27°37 | 5°16 | 9°54 | 9°54 | 13°19 | 25° 1 | 0°R43 | 1°12 | 15°45 | 6°59 | S 11 |
| S 12 | 21 21 31 | 19° 4'36 | 2♐14 | 5°46 | 2°13 | 28°16 | 5°18 | 9°54 | 9°51 | 13°18 | 25° 2 | 0°42 | 1° 9 | 15°52 | 6°56 | S 12 |
| M13 | 21 25 27 | 20° 2'17 | 14° 7 | 5°D41 | 3°20 | 28°55 | 5°20 | 9°54 | 9°49 | 13°17 | 25° 3 | 0°41 | 1° 6 | 15°59 | 6°52 | M13 |
| T 14 | 21 29 24 | 21° 0'00 | 26° 1 | 5°42 | 4°27 | 29°35 | 5°22 | 9°D54 | 9°47 | 13°16 | 25° 4 | 0°40 | 1° 3 | 16° 5 | 6°49 | T 14 |
| W15 | 21 33 20 | 21°57'44 | 8♑ 0 | 5°51 | 5°33 | 0♋13 | 5°24 | 9°54 | 9°44 | 13°15 | 25° 5 | 0°39 | 1° 0 | 16°12 | 6°46 | W15 |
| T 16 | 21 37 17 | 22°55'29 | 20° 8 | 6° 8 | 6°40 | 0°52 | 5°26 | 9°54 | 9°42 | 13°13 | 25° 6 | 0°38 | 0°56 | 16°19 | 6°43 | T 16 |
| F 17 | 21 41 14 | 23°53'16 | 2♒25 | 6°32 | 7°46 | 1°31 | 5°29 | 9°54 | 9°40 | 13°12 | 25° 7 | 0°37 | 0°53 | 16°26 | 6°40 | F 17 |
| S 18 | 21 45 10 | 24°51'04 | 14°56 | 7° 4 | 8°53 | 2°10 | 5°32 | 9°54 | 9°37 | 13°11 | 25° 8 | 0°37 | 0°50 | 16°32 | 6°37 | S 18 |
| S 19 | 21 49 7 | 25°48'53 | 27°41 | 7°44 | 9°59 | 2°49 | 5°35 | 9°55 | 9°35 | 13°10 | 25° 8 | 0°D36 | 0°47 | 16°39 | 6°34 | S 19 |
| M20 | 21 53 3 | 26°46'44 | 10♓40 | 8°31 | 11° 5 | 3°27 | 5°38 | 9°55 | 9°33 | 13° 9 | 25° 9 | 0°36 | 0°44 | 16°46 | 6°31 | M20 |
| T 21 | 21 57 0 | 27°44'36 | 23°53 | 9°25 | 12°11 | 4° 6 | 5°42 | 9°56 | 9°31 | 13° 8 | 25°10 | 0°37 | 0°40 | 16°52 | 6°28 | T 21 |
| W22 | 22 0 56 | 28°42'30 | 7♈19 | 10°26 | 13°17 | 4°44 | 5°45 | 9°57 | 9°28 | 13° 7 | 25°11 | 0°37 | 0°37 | 16°59 | 6°25 | W22 |
| T 23 | 22 4 53 | 29°40'25 | 20°58 | 11°34 | 14°22 | 5°22 | 5°49 | 9°57 | 9°26 | 13° 6 | 25°11 | 0°37 | 0°34 | 17° 6 | 6°22 | T 23 |
| F 24 | 22 8 49 | 0♍38'23 | 4♉49 | 12°48 | 15°27 | 6° 1 | 5°53 | 9°58 | 9°24 | 13° 5 | 25°12 | 0°R37 | 0°31 | 17°13 | 6°19 | F 24 |
| S 25 | 22 12 46 | 1°36'22 | 18°49 | 14° 8 | 16°32 | 6°39 | 5°57 | 9°59 | 9°22 | 13° 4 | 25°13 | 0°37 | 0°28 | 17°19 | 6°16 | S 25 |
| S 26 | 22 16 43 | 2°34'24 | 2♊58 | 15°33 | 17°37 | 7°17 | 6° 1 | 10° 0 | 9°20 | 13° 3 | 25°13 | 0°D37 | 0°25 | 17°26 | 6°13 | S 26 |
| M27 | 22 20 39 | 3°32'27 | 17°13 | 17° 4 | 18°42 | 7°55 | 6° 5 | 10° 2 | 9°18 | 13° 2 | 25°14 | 0°37 | 0°21 | 17°33 | 6°11 | M27 |
| T 28 | 22 24 36 | 4°30'32 | 1♋31 | 18°39 | 19°47 | 8°33 | 6°10 | 10° 3 | 9°15 | 13° 1 | 25°15 | 0°37 | 0°18 | 17°39 | 6° 8 | T 28 |
| W29 | 22 28 32 | 5°28'40 | 15°50 | 20°17 | 20°51 | 9°10 | 6°15 | 10° 4 | 9°13 | 13° 1 | 25°15 | 0°38 | 0°15 | 17°46 | 6° 5 | W29 |
| T 30 | 22 32 29 | 6°26'49 | 0♌ 6 | 22° 0 | 21°55 | 9°48 | 6°20 | 10° 6 | 9°11 | 13° 0 | 25°16 | 0°38 | 0°12 | 17°53 | 6° 2 | T 30 |
| F 31 | 22 36 25 | 7♍25'00 | 14♌14 | 23♌45 | 22♎59 | 10♋26 | 6♐25 | 10♐ 7 | 9♒ 9 | 12♑59 | 25♊17 | 0♍39 | 0♍ 9 | 18♐ 0 | 6♒ 0 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18n10 | 19n 4 | 4s17 | 12n26 | 4s54 | 4n41 | 0n40 | 23n16 | 0n 6 | 20s39 | 0n33 | 20s28 | 1n33 | 18s21 | 0s41 | 22s 3 | 0n45 | 16n57 | 6s26 | 11n14 | 10n53 | 17s37 | 11s19 | 7n21 |
| T 2 | 17 55 | 18 33 | 3 23 | 12 40 | 4 52 | 4 11 | 0 37 | 23 20 | 0 7 | 20 39 | 0 33 | 20 28 | 1 33 | 18 22 | 0 41 | 22 3 | 0 45 | 16 57 | 6 26 | 11 15 | 10 54 | 17 38 | 11 20 | 7 21 |
| F 3 | 17 39 | 16 48 | 2 15 | 12 56 | 4 49 | 3 40 | 0 33 | 23 23 | 0 7 | 20 39 | 0 33 | 20 28 | 1 33 | 18 23 | 0 41 | 22 3 | 0 45 | 16 57 | 6 27 | 11 16 | 10 55 | 17 38 | 11 20 | 7 21 |
| S 4 | 17 23 | 14 1 | 1 1 | 13 14 | 4 44 | 3 10 | 0 30 | 23 26 | 0 8 | 20 40 | 0 32 | 20 28 | 1 32 | 18 23 | 0 41 | 22 3 | 0 45 | 16 57 | 6 27 | 11 16 | 10 56 | 17 39 | 11 21 | 7 21 |
| S 5 | 17 7 | 10 27 | 0n16 | 13 32 | 4 37 | 2 39 | 0 26 | 23 29 | 0 9 | 20 40 | 0 32 | 20 28 | 1 32 | 18 24 | 0 41 | 22 3 | 0 45 | 16 57 | 6 27 | 11 16 | 10 57 | 17 40 | 11 22 | 7 20 |
| M 6 | 16 51 | 6 26 | 1 31 | 13 52 | 4 28 | 2 9 | 0 22 | 23 31 | 0 10 | 20 40 | 0 32 | 20 28 | 1 32 | 18 25 | 0 41 | 22 4 | 0 45 | 16 57 | 6 27 | 11 16 | 10 58 | 17 41 | 11 23 | 7 20 |
| T 7 | 16 35 | 2 12 | 2 38 | 14 12 | 4 18 | 1 38 | 0 18 | 23 34 | 0 11 | 20 41 | 0 32 | 20 28 | 1 32 | 18 25 | 0 41 | 22 4 | 0 45 | 16 57 | 6 27 | 11 16 | 10 59 | 17 42 | 11 24 | 7 20 |
| W 8 | 16 18 | 2s 0 | 3 35 | 14 32 | 4 6 | 1 8 | 0 14 | 23 36 | 0 11 | 20 41 | 0 32 | 20 28 | 1 32 | 18 26 | 0 41 | 22 4 | 0 45 | 16 57 | 6 27 | 11 15 | 11 1 | 17 43 | 11 25 | 7 20 |
| T 9 | 16 1 | 6 0 | 4 20 | 14 52 | 3 53 | 0 37 | 0 10 | 23 38 | 0 12 | 20 42 | 0 31 | 20 28 | 1 31 | 18 27 | 0 41 | 22 4 | 0 45 | 16 57 | 6 27 | 11 15 | 11 2 | 17 44 | 11 26 | 7 20 |
| F 10 | 15 43 | 9 39 | 4 52 | 15 12 | 3 38 | 0 6 | 0 6 | 23 40 | 0 13 | 20 42 | 0 31 | 20 28 | 1 31 | 18 27 | 0 41 | 22 4 | 0 45 | 16 57 | 6 27 | 11 14 | 11 3 | 17 45 | 11 27 | 7 20 |
| S 11 | 15 26 | 12 51 | 5 11 | 15 32 | 3 23 | 0s24 | 0 2 | 23 42 | 0 14 | 20 42 | 0 31 | 20 28 | 1 31 | 18 28 | 0 41 | 22 4 | 0 45 | 16 56 | 6 27 | 11 14 | 11 4 | 17 46 | 11 28 | 7 20 |
| S 12 | 15 8 | 15 29 | 5 16 | 15 51 | 3 7 | 0 55 | 0s 2 | 23 43 | 0 15 | 20 43 | 0 31 | 20 29 | 1 31 | 18 28 | 0 41 | 22 5 | 0 45 | 16 56 | 6 27 | 11 15 | 11 5 | 17 47 | 11 28 | 7 20 |
| M13 | 14 50 | 17 26 | 5 8 | 16 8 | 2 50 | 1 26 | 0 7 | 23 44 | 0 16 | 20 44 | 0 31 | 20 29 | 1 31 | 18 29 | 0 41 | 22 5 | 0 45 | 16 56 | 6 27 | 11 15 | 11 6 | 17 48 | 11 29 | 7 20 |
| T 14 | 14 31 | 18 39 | 4 46 | 16 25 | 2 33 | 1 56 | 0 11 | 23 45 | 0 17 | 20 44 | 0 30 | 20 29 | 1 30 | 18 30 | 0 41 | 22 5 | 0 45 | 16 56 | 6 27 | 11 15 | 11 7 | 17 49 | 11 30 | 7 19 |
| W15 | 14 13 | 19 3 | 4 12 | 16 39 | 2 15 | 2 27 | 0 16 | 23 46 | 0 17 | 20 45 | 0 30 | 20 29 | 1 30 | 18 30 | 0 41 | 22 5 | 0 44 | 16 56 | 6 27 | 11 16 | 11 8 | 17 49 | 11 31 | 7 19 |
| T 16 | 13 54 | 18 34 | 3 26 | 16 53 | 1 57 | 2 58 | 0 20 | 23 47 | 0 18 | 20 45 | 0 30 | 20 29 | 1 30 | 18 31 | 0 41 | 22 5 | 0 44 | 16 56 | 6 27 | 11 16 | 11 10 | 17 50 | 11 32 | 7 19 |
| F 17 | 13 35 | 17 13 | 2 30 | 17 4 | 1 40 | 3 28 | 0 25 | 23 47 | 0 19 | 20 46 | 0 30 | 20 30 | 1 30 | 18 32 | 0 41 | 22 5 | 0 44 | 16 56 | 6 27 | 11 16 | 11 11 | 17 51 | 11 33 | 7 19 |
| S 18 | 13 16 | 15 1 | 1 26 | 17 12 | 1 22 | 3 59 | 0 29 | 23 48 | 0 20 | 20 47 | 0 30 | 20 30 | 1 30 | 18 32 | 0 41 | 22 5 | 0 44 | 16 56 | 6 27 | 11 17 | 11 12 | 17 52 | 11 34 | 7 19 |
| S 19 | 12 56 | 12 3 | 0 16 | 17 19 | 1 5 | 4 29 | 0 34 | 23 48 | 0 21 | 20 48 | 0 29 | 20 30 | 1 29 | 18 33 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 17 | 11 13 | 17 53 | 11 35 | 7 18 |
| M20 | 12 37 | 8 26 | 0s55 | 17 23 | 0 48 | 4 59 | 0 39 | 23 48 | 0 22 | 20 48 | 0 29 | 20 30 | 1 29 | 18 33 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 17 | 11 14 | 17 54 | 11 36 | 7 18 |
| T 21 | 12 17 | 4 21 | 2 6 | 17 25 | 0 32 | 5 29 | 0 44 | 23 48 | 0 23 | 20 49 | 0 29 | 20 31 | 1 29 | 18 34 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 17 | 11 15 | 17 55 | 11 37 | 7 18 |
| W22 | 11 57 | 0n 0 | 3 10 | 17 23 | 0 17 | 6 0 | 0 48 | 23 47 | 0 24 | 20 50 | 0 29 | 20 31 | 1 29 | 18 35 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 16 | 11 16 | 17 56 | 11 38 | 7 18 |
| T 23 | 11 36 | 4 25 | 4 4 | 17 19 | 0 2 | 6 30 | 0 53 | 23 47 | 0 24 | 20 51 | 0 29 | 20 31 | 1 28 | 18 35 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 16 | 11 17 | 17 57 | 11 39 | 7 18 |
| F 24 | 11 16 | 8 40 | 4 46 | 17 12 | 0n12 | 6 59 | 0 58 | 23 46 | 0 25 | 20 52 | 0 28 | 20 32 | 1 28 | 18 36 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 16 | 11 19 | 17 57 | 11 40 | 7 17 |
| S 25 | 10 55 | 12 28 | 5 10 | 17 1 | 0 25 | 7 29 | 1 3 | 23 45 | 0 26 | 20 52 | 0 28 | 20 32 | 1 28 | 18 36 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 16 | 11 20 | 17 58 | 11 40 | 7 17 |
| S 26 | 10 35 | 15 36 | 5 17 | 16 48 | 0 38 | 7 59 | 1 8 | 23 44 | 0 27 | 20 53 | 0 28 | 20 32 | 1 28 | 18 37 | 0 41 | 22 6 | 0 44 | 16 56 | 6 28 | 11 16 | 11 21 | 17 59 | 11 41 | 7 17 |
| M27 | 10 14 | 17 49 | 5 4 | 16 32 | 0 49 | 8 28 | 1 13 | 23 43 | 0 28 | 20 54 | 0 28 | 20 33 | 1 28 | 18 37 | 0 41 | 22 7 | 0 44 | 16 56 | 6 28 | 11 16 | 11 22 | 18 0 | 11 42 | 7 17 |
| T 28 | 9 52 | 18 56 | 4 32 | 16 12 | 0 59 | 8 57 | 1 18 | 23 41 | 0 29 | 20 55 | 0 28 | 20 33 | 1 27 | 18 38 | 0 41 | 22 7 | 0 44 | 16 56 | 6 28 | 11 16 | 11 23 | 18 1 | 11 43 | 7 16 |
| W29 | 9 31 | 18 50 | 3 44 | 15 50 | 1 8 | 9 27 | 1 24 | 23 40 | 0 30 | 20 56 | 0 27 | 20 34 | 1 27 | 18 39 | 0 41 | 22 7 | 0 44 | 16 56 | 6 28 | 11 16 | 11 24 | 18 2 | 11 44 | 7 16 |
| T 30 | 9 10 | 17 32 | 2 41 | 15 25 | 1 17 | 9 56 | 1 29 | 23 38 | 0 31 | 20 57 | 0 27 | 20 34 | 1 27 | 18 39 | 0 41 | 22 7 | 0 44 | 16 56 | 6 28 | 11 16 | 11 25 | 18 3 | 11 45 | 7 16 |
| F 31 | 8n48 | 15n 9 | 1s30 | 14n57 | 1n24 | 10s24 | 1s34 | 23n36 | 0n32 | 20s58 | 0n27 | 20s35 | 1n27 | 18s40 | 0s41 | 22s 7 | 0n44 | 16n55 | 6s29 | 11n16 | 11n26 | 18s 3 | 11s46 | 7n15 |

Julian Day Number = 2328670.5, Delta T = 33.96 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'40, Lahiri = 19°09'41Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## SEPTEMBER 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 40 22 | 8♍23'13 | 28♌12 | 25♌33 | 24♎ 3 | 11♋ 3 | 6♐30 | 10♐ 9 | 9°R 7 | 12°R58 | 25♊17 | 0°R39 | 0♍ 6 | 18♐ 6 | 5°R57 | S 1 |
| S 2 | 22 44 18 | 9°21'28 | 11♍56 | 27°23 | 25° 6 | 11°41 | 6°35 | 10°11 | 9♒ 5 | 12♑57 | 25°18 | 0♍39 | 0° 2 | 18°13 | 5♒55 | S 2 |
| M 3 | 22 48 15 | 10°19'44 | 25°23 | 29°14 | 26°10 | 12°18 | 6°41 | 10°13 | 9° 3 | 12°57 | 25°18 | 0°38 | 29♌59 | 18°20 | 5°52 | M 3 |
| T 4 | 22 52 11 | 11°18'02 | 8♎31 | 1♍ 7 | 27°13 | 12°55 | 6°46 | 10°14 | 9° 1 | 12°56 | 25°19 | 0°37 | 29°56 | 18°26 | 5°50 | T 4 |
| W 5 | 22 56 8 | 12°16'22 | 21°21 | 3° 1 | 28°15 | 13°32 | 6°52 | 10°17 | 9° 0 | 12°55 | 25°19 | 0°35 | 29°53 | 18°33 | 5°47 | W 5 |
| T 6 | 23 0 5 | 13°14'44 | 3♏53 | 4°55 | 29°18 | 14° 9 | 6°58 | 10°19 | 8°58 | 12°55 | 25°20 | 0°34 | 29°50 | 18°40 | 5°45 | T 6 |
| F 7 | 23 4 1 | 14°13'07 | 16°10 | 6°49 | 0♏20 | 14°46 | 7° 5 | 10°21 | 8°56 | 12°54 | 25°20 | 0°32 | 29°46 | 18°47 | 5°43 | F 7 |
| S 8 | 23 7 58 | 15°11'32 | 28°14 | 8°44 | 1°22 | 15°23 | 7°11 | 10°23 | 8°54 | 12°54 | 25°20 | 0°31 | 29°43 | 18°53 | 5°40 | S 8 |
| S 9 | 23 11 54 | 16° 9'58 | 10♐11 | 10°38 | 2°24 | 16° 0 | 7°17 | 10°26 | 8°52 | 12°53 | 25°21 | 0°30 | 29°40 | 19° 0 | 5°38 | S 9 |
| M10 | 23 15 51 | 17° 8'26 | 22° 4 | 12°32 | 3°25 | 16°36 | 7°24 | 10°28 | 8°51 | 12°53 | 25°21 | 0°D30 | 29°37 | 19° 7 | 5°36 | M10 |
| T 11 | 23 19 47 | 18° 6'56 | 3♑58 | 14°25 | 4°26 | 17°13 | 7°31 | 10°31 | 8°49 | 12°52 | 25°21 | 0°31 | 29°34 | 19°13 | 5°34 | T 11 |
| W12 | 23 23 44 | 19° 5'28 | 15°57 | 16°18 | 5°27 | 17°49 | 7°38 | 10°33 | 8°47 | 12°52 | 25°22 | 0°32 | 29°31 | 19°20 | 5°32 | W12 |
| T 13 | 23 27 40 | 20° 4'01 | 28° 7 | 18°10 | 6°27 | 18°26 | 7°45 | 10°36 | 8°46 | 12°51 | 25°22 | 0°34 | 29°27 | 19°27 | 5°30 | T 13 |
| F 14 | 23 31 37 | 21° 2'36 | 10♒31 | 20° 2 | 7°27 | 19° 2 | 7°52 | 10°39 | 8°44 | 12°51 | 25°22 | 0°35 | 29°24 | 19°34 | 5°28 | F 14 |
| S 15 | 23 35 34 | 22° 1'12 | 23°12 | 21°52 | 8°27 | 19°38 | 7°59 | 10°42 | 8°43 | 12°51 | 25°22 | 0°36 | 29°21 | 19°40 | 5°26 | S 15 |
| S 16 | 23 39 30 | 22°59'50 | 6♓11 | 23°42 | 9°27 | 20°14 | 8° 7 | 10°45 | 8°41 | 12°50 | 25°23 | 0°R36 | 29°18 | 19°47 | 5°24 | S 16 |
| M17 | 23 43 27 | 23°58'31 | 19°31 | 25°30 | 10°26 | 20°50 | 8°14 | 10°48 | 8°40 | 12°50 | 25°23 | 0°35 | 29°15 | 19°54 | 5°22 | M17 |
| T 18 | 23 47 23 | 24°57'13 | 3♈ 9 | 27°18 | 11°24 | 21°25 | 8°22 | 10°51 | 8°38 | 12°50 | 25°23 | 0°33 | 29°11 | 20° 0 | 5°21 | T 18 |
| W19 | 23 51 20 | 25°55'57 | 17° 3 | 29° 5 | 12°22 | 22° 1 | 8°30 | 10°55 | 8°37 | 12°50 | 25°23 | 0°29 | 29° 8 | 20° 7 | 5°19 | W19 |
| T 20 | 23 55 16 | 26°54'43 | 1♉10 | 0♎51 | 13°20 | 22°37 | 8°38 | 10°58 | 8°35 | 12°50 | 25°23 | 0°26 | 29° 5 | 20°14 | 5°17 | T 20 |
| F 21 | 23 59 13 | 27°53'32 | 15°24 | 2°36 | 14°17 | 23°12 | 8°46 | 11° 1 | 8°34 | 12°49 | 25°23 | 0°22 | 29° 2 | 20°21 | 5°16 | F 21 |
| S 22 | 0 3 9 | 28°52'22 | 29°43 | 4°20 | 15°14 | 23°47 | 8°54 | 11° 5 | 8°33 | 12°49 | 25°24 | 0°19 | 28°59 | 20°27 | 5°14 | S 22 |
| S 23 | 0 7 6 | 29°51'16 | 14♊ 1 | 6° 3 | 16°11 | 24°23 | 9° 2 | 11° 8 | 8°32 | 12°49 | 25°24 | 0°16 | 28°56 | 20°34 | 5°13 | S 23 |
| M24 | 0 11 3 | 0♎50'11 | 28°16 | 7°45 | 17° 7 | 24°58 | 9°11 | 11°12 | 8°30 | 12°49 | 25°24 | 0°D15 | 28°52 | 20°41 | 5°12 | M24 |
| T 25 | 0 14 59 | 1°49'09 | 12♋24 | 9°26 | 18° 2 | 25°33 | 9°20 | 11°16 | 8°29 | 12°D49 | 25°R24 | 0°16 | 28°49 | 20°47 | 5°10 | T 25 |
| W26 | 0 18 56 | 2°48'09 | 26°24 | 11° 6 | 18°57 | 26° 8 | 9°28 | 11°20 | 8°28 | 12°49 | 25°24 | 0°17 | 28°46 | 20°54 | 5° 9 | W26 |
| T 27 | 0 22 52 | 3°47'12 | 10♌15 | 12°46 | 19°52 | 26°42 | 9°37 | 11°24 | 8°27 | 12°49 | 25°24 | 0°19 | 28°43 | 21° 1 | 5° 8 | T 27 |
| F 28 | 0 26 49 | 4°46'17 | 23°57 | 14°24 | 20°46 | 27°17 | 9°46 | 11°28 | 8°26 | 12°49 | 25°24 | 0°R20 | 28°40 | 21° 8 | 5° 7 | F 28 |
| S 29 | 0 30 45 | 5°45'23 | 7♍28 | 16° 2 | 21°39 | 27°51 | 9°55 | 11°32 | 8°25 | 12°50 | 25°24 | 0°20 | 28°37 | 21°14 | 5° 6 | S 29 |
| S 30 | 0 34 42 | 6♎44'33 | 20♍48 | 17♎39 | 22♏32 | 28♋26 | 10♐ 5 | 11♐36 | 8♒24 | 12♑50 | 25♊23 | 0♍18 | 28♌33 | 21♐21 | 5♒ 5 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n26 | 11n54 | 0s14 | 14n27 | 1n30 | 10s53 | 1s39 | 23n34 | 0n33 | 20s59 | 0n27 | 20s35 | 1n27 | 18s40 | 0s41 | 22s 7 | 0n44 | 16n55 | 6s29 | 11n16 | 11n28 | 18s 4 | 11s47 | 7n15 |
| S 2 | 8 4 | 8 3 | 1n 2 | 13 54 | 1 36 | 11 21 | 1 44 | 23 31 | 0 34 | 21 1 | 0 27 | 20 35 | 1 26 | 18 41 | 0 41 | 22 7 | 0 44 | 16 55 | 6 29 | 11 16 | 11 29 | 18 5 | 11 48 | 7 15 |
| M 3 | 7 42 | 3 52 | 2 13 | 13 19 | 1 40 | 11 49 | 1 50 | 23 29 | 0 34 | 21 2 | 0 26 | 20 36 | 1 26 | 18 41 | 0 41 | 22 7 | 0 44 | 16 55 | 6 29 | 11 16 | 11 30 | 18 6 | 11 49 | 7 14 |
| T 4 | 7 20 | 0s24 | 3 15 | 12 42 | 1 43 | 12 17 | 1 55 | 23 26 | 0 35 | 21 3 | 0 26 | 20 36 | 1 26 | 18 42 | 0 41 | 22 7 | 0 44 | 16 55 | 6 29 | 11 16 | 11 31 | 18 7 | 11 50 | 7 14 |
| W 5 | 6 58 | 4 33 | 4 5 | 12 4 | 1 46 | 12 45 | 2 0 | 23 24 | 0 36 | 21 4 | 0 26 | 20 37 | 1 26 | 18 42 | 0 41 | 22 7 | 0 44 | 16 55 | 6 29 | 11 17 | 11 32 | 18 8 | 11 51 | 7 14 |
| T 6 | 6 36 | 8 24 | 4 42 | 11 23 | 1 47 | 13 12 | 2 6 | 23 21 | 0 37 | 21 5 | 0 26 | 20 37 | 1 26 | 18 43 | 0 41 | 22 8 | 0 44 | 16 55 | 6 29 | 11 18 | 11 33 | 18 9 | 11 51 | 7 13 |
| F 7 | 6 13 | 11 49 | 5 6 | 10 42 | 1 48 | 13 39 | 2 11 | 23 18 | 0 38 | 21 6 | 0 26 | 20 38 | 1 25 | 18 43 | 0 41 | 22 8 | 0 44 | 16 55 | 6 29 | 11 18 | 11 34 | 18 9 | 11 52 | 7 13 |
| S 8 | 5 51 | 14 40 | 5 16 | 9 59 | 1 48 | 14 6 | 2 16 | 23 14 | 0 39 | 21 8 | 0 26 | 20 38 | 1 25 | 18 43 | 0 41 | 22 8 | 0 44 | 16 55 | 6 29 | 11 19 | 11 35 | 18 10 | 11 53 | 7 13 |
| S 9 | 5 28 | 16 53 | 5 11 | 9 15 | 1 48 | 14 33 | 2 22 | 23 11 | 0 40 | 21 9 | 0 25 | 20 39 | 1 25 | 18 44 | 0 41 | 22 8 | 0 44 | 16 55 | 6 29 | 11 19 | 11 36 | 18 11 | 11 54 | 7 12 |
| M10 | 5 5 | 18 21 | 4 54 | 8 31 | 1 47 | 14 59 | 2 27 | 23 8 | 0 41 | 21 10 | 0 25 | 20 40 | 1 25 | 18 44 | 0 41 | 22 8 | 0 44 | 16 55 | 6 30 | 11 19 | 11 38 | 18 12 | 11 55 | 7 12 |
| T 11 | 4 42 | 19 2 | 4 24 | 7 45 | 1 45 | 15 25 | 2 33 | 23 4 | 0 42 | 21 11 | 0 25 | 20 40 | 1 25 | 18 45 | 0 41 | 22 8 | 0 44 | 16 55 | 6 30 | 11 19 | 11 39 | 18 13 | 11 56 | 7 12 |
| W12 | 4 19 | 18 51 | 3 42 | 6 59 | 1 43 | 15 51 | 2 38 | 23 0 | 0 43 | 21 13 | 0 25 | 20 41 | 1 24 | 18 45 | 0 41 | 22 8 | 0 44 | 16 54 | 6 30 | 11 18 | 11 40 | 18 13 | 11 57 | 7 11 |
| T 13 | 3 56 | 17 48 | 2 50 | 6 13 | 1 40 | 16 16 | 2 43 | 22 56 | 0 44 | 21 14 | 0 25 | 20 41 | 1 24 | 18 46 | 0 41 | 22 8 | 0 44 | 16 54 | 6 30 | 11 18 | 11 41 | 18 14 | 11 58 | 7 11 |
| F 14 | 3 33 | 15 54 | 1 48 | 5 26 | 1 36 | 16 41 | 2 49 | 22 52 | 0 45 | 21 15 | 0 24 | 20 42 | 1 24 | 18 46 | 0 41 | 22 8 | 0 44 | 16 54 | 6 30 | 11 17 | 11 42 | 18 15 | 11 58 | 7 10 |
| S 15 | 3 10 | 13 10 | 0 41 | 4 39 | 1 33 | 17 6 | 2 54 | 22 48 | 0 46 | 21 17 | 0 24 | 20 42 | 1 24 | 18 46 | 0 41 | 22 8 | 0 44 | 16 54 | 6 30 | 11 17 | 11 43 | 18 16 | 11 59 | 7 10 |
| S 16 | 2 47 | 9 44 | 0s31 | 3 52 | 1 28 | 17 30 | 3 0 | 22 44 | 0 47 | 21 18 | 0 24 | 20 43 | 1 24 | 18 47 | 0 41 | 22 8 | 0 44 | 16 54 | 6 30 | 11 17 | 11 44 | 18 17 | 12 0 | 7 10 |
| M17 | 2 24 | 5 43 | 1 42 | 3 4 | 1 24 | 17 54 | 3 5 | 22 39 | 0 48 | 21 19 | 0 24 | 20 44 | 1 23 | 18 47 | 0 41 | 22 8 | 0 43 | 16 54 | 6 30 | 11 17 | 11 45 | 18 18 | 12 1 | 7 9 |
| T 18 | 2 1 | 1 20 | 2 49 | 2 17 | 1 19 | 18 17 | 3 10 | 22 35 | 0 49 | 21 21 | 0 24 | 20 44 | 1 23 | 18 47 | 0 41 | 22 8 | 0 43 | 16 54 | 6 30 | 11 18 | 11 47 | 18 18 | 12 2 | 7 9 |
| W19 | 1 37 | 3n12 | 3 48 | 1 30 | 1 14 | 18 41 | 3 15 | 22 30 | 0 50 | 21 22 | 0 24 | 20 45 | 1 23 | 18 48 | 0 41 | 22 8 | 0 43 | 16 54 | 6 30 | 11 19 | 11 48 | 18 19 | 12 3 | 7 8 |
| T 20 | 1 14 | 7 37 | 4 33 | 0 43 | 1 8 | 19 3 | 3 21 | 22 25 | 0 51 | 21 24 | 0 23 | 20 46 | 1 23 | 18 48 | 0 41 | 22 9 | 0 43 | 16 54 | 6 31 | 11 20 | 11 49 | 18 20 | 12 3 | 7 8 |
| F 21 | 0 50 | 11 39 | 5 2 | 0s 4 | 1 3 | 19 26 | 3 26 | 22 20 | 0 52 | 21 25 | 0 23 | 20 46 | 1 23 | 18 48 | 0 41 | 22 9 | 0 43 | 16 54 | 6 31 | 11 22 | 11 50 | 18 21 | 12 4 | 7 7 |
| S 22 | 0 27 | 15 2 | 5 13 | 0 51 | 0 57 | 19 48 | 3 31 | 22 15 | 0 53 | 21 26 | 0 23 | 20 47 | 1 22 | 18 49 | 0 41 | 22 9 | 0 43 | 16 54 | 6 31 | 11 23 | 11 51 | 18 22 | 12 5 | 7 7 |
| S 23 | 0 3 | 17 29 | 5 4 | 1 38 | 0 51 | 20 9 | 3 36 | 22 10 | 0 54 | 21 28 | 0 23 | 20 48 | 1 22 | 18 49 | 0 41 | 22 9 | 0 43 | 16 53 | 6 31 | 11 24 | 11 52 | 18 22 | 12 6 | 7 7 |
| M24 | 0s20 | 18 52 | 4 36 | 2 24 | 0 45 | 20 31 | 3 41 | 22 5 | 0 55 | 21 29 | 0 23 | 20 48 | 1 22 | 18 49 | 0 41 | 22 9 | 0 43 | 16 53 | 6 31 | 11 24 | 11 53 | 18 23 | 12 6 | 7 6 |
| T 25 | 0 43 | 19 3 | 3 52 | 3 10 | 0 38 | 20 51 | 3 47 | 21 59 | 0 56 | 21 31 | 0 23 | 20 49 | 1 22 | 18 50 | 0 41 | 22 9 | 0 43 | 16 53 | 6 31 | 11 24 | 11 54 | 18 24 | 12 7 | 7 6 |
| W26 | 1 7 | 18 3 | 2 55 | 3 55 | 0 32 | 21 12 | 3 52 | 21 54 | 0 57 | 21 32 | 0 22 | 20 50 | 1 22 | 18 50 | 0 41 | 22 9 | 0 43 | 16 53 | 6 31 | 11 23 | 11 55 | 18 25 | 12 8 | 7 5 |
| T 27 | 1 30 | 15 59 | 1 47 | 4 40 | 0 25 | 21 32 | 3 56 | 21 48 | 0 58 | 21 34 | 0 22 | 20 51 | 1 21 | 18 50 | 0 41 | 22 9 | 0 43 | 16 53 | 6 31 | 11 23 | 11 56 | 18 25 | 12 9 | 7 5 |
| F 28 | 1 54 | 13 1 | 0 35 | 5 25 | 0 18 | 21 51 | 4 1 | 21 42 | 0 59 | 21 35 | 0 22 | 20 51 | 1 21 | 18 50 | 0 41 | 22 9 | 0 43 | 16 53 | 6 31 | 11 23 | 11 58 | 18 26 | 12 9 | 7 4 |
| S 29 | 2 17 | 9 23 | 0n39 | 6 9 | 0 11 | 22 10 | 4 6 | 21 37 | 1 0 | 21 37 | 0 22 | 20 52 | 1 21 | 18 51 | 0 41 | 22 9 | 0 43 | 16 53 | 6 31 | 11 23 | 11 59 | 18 27 | 12 10 | 7 4 |
| S 30 | 2s41 | 5n19 | 1n49 | 6s52 | 0n 5 | 22s28 | 4s11 | 21n31 | 1n 1 | 21s38 | 0n22 | 20s53 | 1n21 | 18s51 | 0s41 | 22s 9 | 0n43 | 16n53 | 6s31 | 11n23 | 12n 0 | 18s28 | 12s11 | 7n 3 |

Julian Day Number = 2328701.5, Delta T = 33.90 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'44, Lahiri = 19°09'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## OCTOBER 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 38 38 | 7♎43'44 | 3♎55 | 19♎15 | 23♏24 | 29♋ 0 | 10♐14 | 11♐40 | 8°R23 | 12♑50 | 25°R23 | 0°R14 | 28♌30 | 21♐28 | 5°R 4 | M 1 |
| T 2 | 0 42 35 | 8°42'57 | 16°49 | 20°51 | 24°15 | 29°34 | 10°23 | 11°45 | 8♒23 | 12°50 | 25♊23 | 0♍ 9 | 28°27 | 21°34 | 5♒ 3 | T 2 |
| W 3 | 0 46 31 | 9°42'13 | 29°29 | 22°25 | 25° 6 | 0♌ 8 | 10°33 | 11°49 | 8°22 | 12°50 | 25°23 | 0° 2 | 28°24 | 21°41 | 5° 2 | W 3 |
| T 4 | 0 50 28 | 10°41'30 | 11♏55 | 23°59 | 25°57 | 0°42 | 10°43 | 11°53 | 8°21 | 12°51 | 25°23 | 29♌55 | 28°21 | 21°48 | 5° 1 | T 4 |
| F 5 | 0 54 25 | 11°40'49 | 24° 8 | 25°32 | 26°46 | 1°16 | 10°52 | 11°58 | 8°20 | 12°51 | 25°23 | 29°47 | 28°17 | 21°55 | 5° 1 | F 5 |
| S 6 | 0 58 21 | 12°40'11 | 6♐11 | 27° 5 | 27°35 | 1°49 | 11° 2 | 12° 3 | 8°20 | 12°51 | 25°22 | 29°41 | 28°14 | 22° 1 | 5° 0 | S 6 |
| S 7 | 1 2 18 | 13°39'34 | 18° 6 | 28°36 | 28°23 | 2°22 | 11°12 | 12° 7 | 8°19 | 12°52 | 25°22 | 29°35 | 28°11 | 22° 8 | 5° 0 | S 7 |
| M 8 | 1 6 14 | 14°38'59 | 29°57 | 0♏ 7 | 29°10 | 2°56 | 11°22 | 12°12 | 8°19 | 12°52 | 25°22 | 29°32 | 28° 8 | 22°15 | 4°59 | M 8 |
| T 9 | 1 10 11 | 15°38'25 | 11♑49 | 1°37 | 29°56 | 3°29 | 11°33 | 12°17 | 8°18 | 12°53 | 25°22 | 29°D31 | 28° 5 | 22°21 | 4°59 | T 9 |
| W10 | 1 14 7 | 16°37'54 | 23°46 | 3° 7 | 0♐42 | 4° 2 | 11°43 | 12°22 | 8°18 | 12°53 | 25°21 | 29°31 | 28° 2 | 22°28 | 4°59 | W10 |
| T 11 | 1 18 4 | 17°37'24 | 5♒54 | 4°36 | 1°26 | 4°35 | 11°53 | 12°27 | 8°17 | 12°54 | 25°21 | 29°32 | 27°58 | 22°35 | 4°58 | T 11 |
| F 12 | 1 22 0 | 18°36'56 | 18°18 | 6° 4 | 2°10 | 5° 7 | 12° 4 | 12°32 | 8°17 | 12°54 | 25°21 | 29°33 | 27°55 | 22°41 | 4°58 | F 12 |
| S 13 | 1 25 57 | 19°36'30 | 1♓ 2 | 7°31 | 2°52 | 5°40 | 12°14 | 12°37 | 8°17 | 12°55 | 25°20 | 29°R34 | 27°52 | 22°48 | 4°58 | S 13 |
| S 14 | 1 29 54 | 20°36'06 | 14° 9 | 8°57 | 3°34 | 6°12 | 12°25 | 12°42 | 8°17 | 12°55 | 25°20 | 29°33 | 27°49 | 22°55 | 4°D58 | S 14 |
| M15 | 1 33 50 | 21°35'43 | 27°41 | 10°23 | 4°14 | 6°44 | 12°36 | 12°47 | 8°16 | 12°56 | 25°19 | 29°30 | 27°46 | 23° 2 | 4°58 | M15 |
| T 16 | 1 37 47 | 22°35'22 | 11♈39 | 11°48 | 4°53 | 7°16 | 12°47 | 12°52 | 8°16 | 12°57 | 25°19 | 29°24 | 27°42 | 23° 8 | 4°58 | T 16 |
| W17 | 1 41 43 | 23°35'04 | 25°58 | 13°12 | 5°31 | 7°48 | 12°58 | 12°58 | 8°16 | 12°58 | 25°19 | 29°17 | 27°39 | 23°15 | 4°58 | W17 |
| T 18 | 1 45 40 | 24°34'47 | 10♉33 | 14°35 | 6° 8 | 8°20 | 13° 9 | 13° 3 | 8°D16 | 12°58 | 25°18 | 29° 8 | 27°36 | 23°22 | 4°59 | T 18 |
| F 19 | 1 49 36 | 25°34'32 | 25°16 | 15°58 | 6°44 | 8°51 | 13°20 | 13° 9 | 8°16 | 12°59 | 25°18 | 28°59 | 27°33 | 23°28 | 4°59 | F 19 |
| S 20 | 1 53 33 | 26°34'20 | 10♊ 1 | 17°19 | 7°18 | 9°23 | 13°31 | 13°14 | 8°16 | 13° 0 | 25°17 | 28°51 | 27°30 | 23°35 | 4°59 | S 20 |
| S 21 | 1 57 29 | 27°34'10 | 24°39 | 18°40 | 7°51 | 9°54 | 13°43 | 13°20 | 8°16 | 13° 1 | 25°16 | 28°45 | 27°27 | 23°42 | 5° 0 | S 21 |
| M22 | 2 1 26 | 28°34'02 | 9♋ 5 | 19°59 | 8°22 | 10°25 | 13°54 | 13°25 | 8°16 | 13° 2 | 25°16 | 28°41 | 27°23 | 23°49 | 5° 0 | M22 |
| T 23 | 2 5 23 | 29°33'56 | 23°16 | 21°17 | 8°52 | 10°56 | 14° 6 | 13°31 | 8°17 | 13° 3 | 25°15 | 28°39 | 27°20 | 23°55 | 5° 1 | T 23 |
| W24 | 2 9 19 | 0♏33'53 | 7♌10 | 22°34 | 9°21 | 11°26 | 14°17 | 13°37 | 8°17 | 13° 4 | 25°15 | 28°D39 | 27°17 | 24° 2 | 5° 2 | W24 |
| T 25 | 2 13 16 | 1°33'52 | 20°47 | 23°49 | 9°48 | 11°57 | 14°29 | 13°43 | 8°17 | 13° 5 | 25°14 | 28°40 | 27°14 | 24° 9 | 5° 2 | T 25 |
| F 26 | 2 17 12 | 2°33'53 | 4♍10 | 25° 3 | 10°13 | 12°27 | 14°40 | 13°48 | 8°18 | 13° 6 | 25°13 | 28°R40 | 27°11 | 24°15 | 5° 3 | F 26 |
| S 27 | 2 21 9 | 3°33'56 | 17°19 | 26°16 | 10°37 | 12°57 | 14°52 | 13°54 | 8°18 | 13° 7 | 25°13 | 28°38 | 27° 8 | 24°22 | 5° 4 | S 27 |
| S 28 | 2 25 5 | 4°34'01 | 0♎16 | 27°26 | 10°58 | 13°27 | 15° 4 | 14° 0 | 8°19 | 13° 8 | 25°12 | 28°34 | 27° 4 | 24°29 | 5° 5 | S 28 |
| M29 | 2 29 2 | 5°34'08 | 13° 2 | 28°35 | 11°18 | 13°56 | 15°16 | 14° 6 | 8°19 | 13° 9 | 25°11 | 28°27 | 27° 1 | 24°36 | 5° 6 | M29 |
| T 30 | 2 32 58 | 6°34'17 | 25°38 | 29°41 | 11°36 | 14°26 | 15°28 | 14°12 | 8°20 | 13°10 | 25°11 | 28°17 | 26°58 | 24°42 | 5° 7 | T 30 |
| W31 | 2 36 55 | 7♏34'28 | 8♏ 4 | 0♐45 | 11♐52 | 14♌55 | 15♐40 | 14♐18 | 8♒20 | 13♑11 | 25♊10 | 28♌ 5 | 26♌55 | 24♐49 | 5♒ 8 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3s 4 | 1n 5 | 2n52 | 7s35 | 0s 2 | 22s47 | 4s16 | 21n25 | 1n 2 | 21s40 | 0n22 | 20s53 | 1n21 | 18s51 | 0s41 | 22s 9 | 0n43 | 16n53 | 6s32 | 11n24 | 12n 1 | 18s29 | 12s11 | 7n 3 |
| T 2 | 3 28 | 3s 9 | 3 46 | 8 18 | 0 9 | 23 4 | 4 20 | 21 19 | 1 3 | 21 41 | 0 22 | 20 54 | 1 21 | 18 51 | 0 41 | 22 9 | 0 43 | 16 53 | 6 32 | 11 26 | 12 2 | 18 29 | 12 12 | 7 2 |
| W 3 | 3 51 | 7 9 | 4 27 | 9 0 | 0 16 | 23 21 | 4 25 | 21 12 | 1 5 | 21 43 | 0 21 | 20 55 | 1 20 | 18 51 | 0 41 | 22 9 | 0 43 | 16 52 | 6 32 | 11 29 | 12 3 | 18 30 | 12 13 | 7 2 |
| T 4 | 4 14 | 10 46 | 4 54 | 9 41 | 0 24 | 23 38 | 4 29 | 21 6 | 1 6 | 21 44 | 0 21 | 20 56 | 1 20 | 18 52 | 0 41 | 22 9 | 0 43 | 16 52 | 6 32 | 11 31 | 12 4 | 18 31 | 12 13 | 7 1 |
| F 5 | 4 38 | 13 52 | 5 7 | 10 22 | 0 31 | 23 54 | 4 33 | 21 0 | 1 7 | 21 46 | 0 21 | 20 57 | 1 20 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 32 | 11 34 | 12 5 | 18 32 | 12 14 | 7 1 |
| S 6 | 5 1 | 16 20 | 5 7 | 11 2 | 0 38 | 24 9 | 4 38 | 20 54 | 1 8 | 21 47 | 0 21 | 20 57 | 1 20 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 32 | 11 36 | 12 6 | 18 32 | 12 15 | 7 0 |
| S 7 | 5 24 | 18 5 | 4 53 | 11 41 | 0 45 | 24 25 | 4 42 | 20 47 | 1 9 | 21 49 | 0 21 | 20 58 | 1 20 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 32 | 11 38 | 12 8 | 18 33 | 12 15 | 7 0 |
| M 8 | 5 47 | 19 2 | 4 27 | 12 20 | 0 52 | 24 39 | 4 46 | 20 40 | 1 10 | 21 51 | 0 21 | 20 59 | 1 20 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 32 | 11 39 | 12 9 | 18 34 | 12 16 | 6 59 |
| T 9 | 6 10 | 19 9 | 3 49 | 12 58 | 0 58 | 24 53 | 4 50 | 20 34 | 1 11 | 21 52 | 0 21 | 21 0 | 1 19 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 32 | 11 40 | 12 10 | 18 34 | 12 16 | 6 59 |
| W10 | 6 33 | 18 25 | 3 1 | 13 36 | 1 5 | 25 7 | 4 53 | 20 27 | 1 12 | 21 54 | 0 20 | 21 0 | 1 19 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 32 | 11 40 | 12 11 | 18 35 | 12 17 | 6 58 |
| T 11 | 6 56 | 16 49 | 2 4 | 14 12 | 1 12 | 25 20 | 4 57 | 20 20 | 1 13 | 21 55 | 0 20 | 21 1 | 1 19 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 33 | 11 39 | 12 12 | 18 36 | 12 17 | 6 58 |
| F 12 | 7 18 | 14 25 | 1 0 | 14 48 | 1 19 | 25 32 | 5 0 | 20 14 | 1 15 | 21 57 | 0 20 | 21 2 | 1 19 | 18 52 | 0 40 | 22 9 | 0 43 | 16 52 | 6 33 | 11 39 | 12 13 | 18 37 | 12 18 | 6 57 |
| S 13 | 7 41 | 11 15 | 0s 8 | 15 23 | 1 25 | 25 44 | 5 4 | 20 7 | 1 16 | 21 58 | 0 20 | 21 3 | 1 19 | 18 52 | 0 40 | 22 9 | 0 43 | 16 51 | 6 33 | 11 39 | 12 14 | 18 37 | 12 18 | 6 57 |
| S 14 | 8 4 | 7 27 | 1 18 | 15 57 | 1 32 | 25 55 | 5 7 | 20 0 | 1 17 | 22 0 | 0 20 | 21 4 | 1 19 | 18 52 | 0 40 | 22 9 | 0 43 | 16 51 | 6 33 | 11 39 | 12 15 | 18 38 | 12 19 | 6 56 |
| M15 | 8 26 | 3 8 | 2 25 | 16 31 | 1 38 | 26 6 | 5 10 | 19 53 | 1 18 | 22 1 | 0 20 | 21 4 | 1 18 | 18 53 | 0 40 | 22 9 | 0 43 | 16 51 | 6 33 | 11 40 | 12 16 | 18 39 | 12 19 | 6 56 |
| T 16 | 8 48 | 1n27 | 3 26 | 17 3 | 1 44 | 26 16 | 5 13 | 19 46 | 1 19 | 22 3 | 0 20 | 21 5 | 1 18 | 18 53 | 0 40 | 22 9 | 0 42 | 16 51 | 6 33 | 11 42 | 12 17 | 18 40 | 12 20 | 6 55 |
| W17 | 9 10 | 6 5 | 4 15 | 17 35 | 1 50 | 26 26 | 5 15 | 19 39 | 1 20 | 22 4 | 0 19 | 21 6 | 1 18 | 18 53 | 0 40 | 22 9 | 0 42 | 16 51 | 6 33 | 11 45 | 12 19 | 18 40 | 12 20 | 6 55 |
| T 18 | 9 32 | 10 26 | 4 49 | 18 6 | 1 56 | 26 35 | 5 18 | 19 32 | 1 22 | 22 6 | 0 19 | 21 7 | 1 18 | 18 52 | 0 40 | 22 9 | 0 42 | 16 51 | 6 33 | 11 48 | 12 20 | 18 41 | 12 21 | 6 54 |
| F 19 | 9 54 | 14 11 | 5 4 | 18 35 | 2 2 | 26 43 | 5 20 | 19 25 | 1 23 | 22 7 | 0 19 | 21 8 | 1 18 | 18 52 | 0 40 | 22 9 | 0 42 | 16 51 | 6 33 | 11 51 | 12 21 | 18 42 | 12 21 | 6 54 |
| S 20 | 10 16 | 17 3 | 4 59 | 19 4 | 2 7 | 26 51 | 5 22 | 19 17 | 1 24 | 22 9 | 0 19 | 21 9 | 1 18 | 18 52 | 0 40 | 22 9 | 0 42 | 16 51 | 6 33 | 11 54 | 12 22 | 18 42 | 12 21 | 6 53 |
| S 21 | 10 38 | 18 48 | 4 35 | 19 32 | 2 13 | 26 58 | 5 23 | 19 10 | 1 25 | 22 10 | 0 19 | 21 9 | 1 17 | 18 52 | 0 40 | 22 8 | 0 42 | 16 51 | 6 33 | 11 56 | 12 23 | 18 43 | 12 22 | 6 53 |
| M22 | 10 59 | 19 18 | 3 53 | 19 59 | 2 18 | 27 5 | 5 25 | 19 3 | 1 27 | 22 12 | 0 19 | 21 10 | 1 17 | 18 52 | 0 40 | 22 8 | 0 42 | 16 51 | 6 33 | 11 57 | 12 24 | 18 44 | 12 22 | 6 52 |
| T 23 | 11 20 | 18 34 | 2 57 | 20 24 | 2 22 | 27 11 | 5 26 | 18 56 | 1 28 | 22 13 | 0 19 | 21 11 | 1 17 | 18 52 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 11 58 | 12 25 | 18 45 | 12 23 | 6 52 |
| W24 | 11 41 | 16 42 | 1 52 | 20 49 | 2 27 | 27 17 | 5 27 | 18 48 | 1 29 | 22 15 | 0 18 | 21 12 | 1 17 | 18 52 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 11 58 | 12 26 | 18 45 | 12 23 | 6 51 |
| T 25 | 12 2 | 13 56 | 0 42 | 21 12 | 2 31 | 27 21 | 5 28 | 18 41 | 1 30 | 22 16 | 0 18 | 21 13 | 1 17 | 18 52 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 11 58 | 12 27 | 18 46 | 12 23 | 6 51 |
| F 26 | 12 23 | 10 27 | 0n29 | 21 34 | 2 35 | 27 26 | 5 28 | 18 34 | 1 32 | 22 18 | 0 18 | 21 14 | 1 17 | 18 52 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 11 58 | 12 28 | 18 47 | 12 24 | 6 50 |
| S 27 | 12 44 | 6 31 | 1 38 | 21 55 | 2 38 | 27 29 | 5 28 | 18 26 | 1 33 | 22 19 | 0 18 | 21 14 | 1 17 | 18 52 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 11 58 | 12 29 | 18 47 | 12 24 | 6 50 |
| S 28 | 13 4 | 2 20 | 2 40 | 22 14 | 2 41 | 27 32 | 5 28 | 18 19 | 1 34 | 22 21 | 0 18 | 21 15 | 1 16 | 18 52 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 12 0 | 12 31 | 18 48 | 12 24 | 6 49 |
| M29 | 13 24 | 1s54 | 3 33 | 22 32 | 2 43 | 27 34 | 5 27 | 18 12 | 1 35 | 22 22 | 0 18 | 21 16 | 1 16 | 18 51 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 12 2 | 12 32 | 18 49 | 12 24 | 6 49 |
| T 30 | 13 44 | 5 59 | 4 14 | 22 49 | 2 45 | 27 36 | 5 26 | 18 4 | 1 37 | 22 24 | 0 18 | 21 17 | 1 16 | 18 51 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 12 5 | 12 33 | 18 49 | 12 25 | 6 48 |
| W31 | 14s 4 | 9s45 | 4n43 | 23s 4 | 2s47 | 27s36 | 5s24 | 17n57 | 1n38 | 22s25 | 0n18 | 21s18 | 1n16 | 18s51 | 0s40 | 22s 8 | 0n42 | 16n50 | 6s34 | 12n10 | 12n34 | 18s50 | 12s25 | 6n48 |

Julian Day Number = 2328731.5, Delta T = 33.85 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'48, Lahiri = 19°09'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## NOVEMBER 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 40 52 | 8♏34'41 | 20♏19 | 1♐46 | 12♐ 6 | 15♌24 | 15♐52 | 14♐25 | 8♒21 | 13♑12 | 25°R 9 | 27°R52 | 26♌52 | 24♐56 | 5♒ 9 | T 1 |
| F 2 | 2 44 48 | 9°34'56 | 2♐26 | 2°43 | 12°18 | 15°53 | 16° 5 | 14°31 | 8°22 | 13°13 | 25♊ 8 | 27♌38 | 26°48 | 25° 2 | 5°11 | F 2 |
| S 3 | 2 48 45 | 10°35'12 | 14°25 | 3°38 | 12°28 | 16°21 | 16°17 | 14°37 | 8°22 | 13°15 | 25° 8 | 27°26 | 26°45 | 25° 9 | 5°12 | S 3 |
| S 4 | 2 52 41 | 11°35'30 | 26°17 | 4°28 | 12°36 | 16°50 | 16°29 | 14°43 | 8°23 | 13°16 | 25° 7 | 27°15 | 26°42 | 25°16 | 5°13 | S 4 |
| M 5 | 2 56 38 | 12°35'50 | 8♑ 6 | 5°14 | 12°41 | 17°18 | 16°42 | 14°50 | 8°24 | 13°17 | 25° 6 | 27° 8 | 26°39 | 25°22 | 5°15 | M 5 |
| T 6 | 3 0 34 | 13°36'11 | 19°56 | 5°54 | 12°44 | 17°46 | 16°54 | 14°56 | 8°25 | 13°19 | 25° 5 | 27° 3 | 26°36 | 25°29 | 5°16 | T 6 |
| W 7 | 3 4 31 | 14°36'34 | 1♒50 | 6°30 | 12°R45 | 18°13 | 17° 7 | 15° 2 | 8°26 | 13°20 | 25° 4 | 27° 0 | 26°33 | 25°36 | 5°18 | W 7 |
| T 8 | 3 8 27 | 15°36'58 | 13°54 | 6°59 | 12°43 | 18°41 | 17°19 | 15° 9 | 8°27 | 13°21 | 25° 3 | 27°D 0 | 26°29 | 25°43 | 5°20 | T 8 |
| F 9 | 3 12 24 | 16°37'23 | 26°13 | 7°21 | 12°38 | 19° 8 | 17°32 | 15°15 | 8°28 | 13°23 | 25° 3 | 27°R 0 | 26°26 | 25°49 | 5°21 | F 9 |
| S 10 | 3 16 21 | 17°37'50 | 8♓53 | 7°35 | 12°32 | 19°34 | 17°45 | 15°22 | 8°29 | 13°24 | 25° 2 | 26°59 | 26°23 | 25°56 | 5°23 | S 10 |
| S 11 | 3 20 17 | 18°38'18 | 21°58 | 7°R41 | 12°23 | 20° 1 | 17°57 | 15°28 | 8°31 | 13°26 | 25° 1 | 26°57 | 26°20 | 26° 3 | 5°25 | S 11 |
| M12 | 3 24 14 | 19°38'47 | 5♈31 | 7°38 | 12°11 | 20°27 | 18°10 | 15°35 | 8°32 | 13°27 | 25° 0 | 26°53 | 26°17 | 26° 9 | 5°27 | M12 |
| T 13 | 3 28 10 | 20°39'18 | 19°35 | 7°26 | 11°57 | 20°53 | 18°23 | 15°41 | 8°33 | 13°29 | 24°59 | 26°46 | 26°14 | 26°16 | 5°29 | T 13 |
| W14 | 3 32 7 | 21°39'50 | 4♉ 5 | 7° 3 | 11°40 | 21°19 | 18°36 | 15°48 | 8°34 | 13°30 | 24°58 | 26°36 | 26°10 | 26°23 | 5°31 | W14 |
| T 15 | 3 36 3 | 22°40'24 | 18°58 | 6°29 | 11°21 | 21°45 | 18°49 | 15°55 | 8°36 | 13°32 | 24°57 | 26°25 | 26° 7 | 26°30 | 5°33 | T 15 |
| F 16 | 3 40 0 | 23°40'59 | 4♊ 5 | 5°46 | 11° 0 | 22°10 | 19° 2 | 16° 1 | 8°37 | 13°34 | 24°56 | 26°13 | 26° 4 | 26°36 | 5°35 | F 16 |
| S 17 | 3 43 56 | 24°41'35 | 19°14 | 4°51 | 10°37 | 22°35 | 19°15 | 16° 8 | 8°39 | 13°35 | 24°55 | 26° 2 | 26° 1 | 26°43 | 5°38 | S 17 |
| S 18 | 3 47 53 | 25°42'14 | 4♋17 | 3°48 | 10°11 | 22°59 | 19°28 | 16°15 | 8°40 | 13°37 | 24°54 | 25°53 | 25°58 | 26°50 | 5°40 | S 18 |
| M19 | 3 51 50 | 26°42'53 | 19° 3 | 2°37 | 9°44 | 23°24 | 19°41 | 16°22 | 8°42 | 13°38 | 24°53 | 25°47 | 25°54 | 26°56 | 5°42 | M19 |
| T 20 | 3 55 46 | 27°43'35 | 3♌27 | 1°19 | 9°14 | 23°48 | 19°54 | 16°28 | 8°43 | 13°40 | 24°52 | 25°44 | 25°51 | 27° 3 | 5°45 | T 20 |
| W21 | 3 59 43 | 28°44'18 | 17°28 | 29♏58 | 8°44 | 24°11 | 20° 8 | 16°35 | 8°45 | 13°42 | 24°51 | 25°43 | 25°48 | 27°10 | 5°47 | W21 |
| T 22 | 4 3 39 | 29°45'03 | 1♍ 6 | 28°36 | 8°11 | 24°35 | 20°21 | 16°42 | 8°47 | 13°44 | 24°50 | 25°43 | 25°45 | 27°16 | 5°50 | T 22 |
| F 23 | 4 7 36 | 0♐45'49 | 14°22 | 27°15 | 7°38 | 24°58 | 20°34 | 16°49 | 8°48 | 13°45 | 24°49 | 25°42 | 25°42 | 27°23 | 5°52 | F 23 |
| S 24 | 4 11 32 | 1°46'37 | 27°20 | 25°59 | 7° 3 | 25°21 | 20°47 | 16°56 | 8°50 | 13°47 | 24°48 | 25°40 | 25°39 | 27°30 | 5°55 | S 24 |
| S 25 | 4 15 29 | 2°47'26 | 10♎ 2 | 24°50 | 6°28 | 25°43 | 21° 1 | 17° 3 | 8°52 | 13°49 | 24°47 | 25°36 | 25°35 | 27°37 | 5°58 | S 25 |
| M26 | 4 19 25 | 3°48'17 | 22°32 | 23°49 | 5°52 | 26° 5 | 21°14 | 17°10 | 8°54 | 13°51 | 24°45 | 25°28 | 25°32 | 27°43 | 6° 0 | M26 |
| T 27 | 4 23 22 | 4°49'09 | 4♏52 | 22°58 | 5°15 | 26°26 | 21°28 | 17°17 | 8°56 | 13°53 | 24°44 | 25°17 | 25°29 | 27°50 | 6° 3 | T 27 |
| W28 | 4 27 19 | 5°50'03 | 17° 4 | 22°19 | 4°39 | 26°48 | 21°41 | 17°24 | 8°58 | 13°55 | 24°43 | 25° 4 | 25°26 | 27°57 | 6° 6 | W28 |
| T 29 | 4 31 15 | 6°50'57 | 29° 9 | 21°51 | 4° 3 | 27° 9 | 21°55 | 17°31 | 9° 0 | 13°56 | 24°42 | 24°50 | 25°23 | 28° 3 | 6° 9 | T 29 |
| F 30 | 4 35 12 | 7♐51'53 | 11♐ 7 | 21♏34 | 3♐27 | 27♌29 | 22♐ 8 | 17♐38 | 9♒ 2 | 13♑58 | 24♊41 | 24♌35 | 25♌19 | 28♐10 | 6♒12 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s23 | 13s 4 | 4n58 | 23s17 | 2s48 | 27s36 | 5s22 | 17n50 | 1n39 | 22s26 | 0n17 | 21s19 | 1n16 | 18s51 | 0s40 | 22s 8 | 0n42 | 16n50 | 6s34 | 12n14 | 12n35 | 18s51 | 12s25 | 6n48 |
| F 2 | 14 42 | 15 47 | 5 0 | 23 29 | 2 48 | 27 36 | 5 20 | 17 42 | 1 41 | 22 28 | 0 17 | 21 19 | 1 16 | 18 51 | 0 40 | 22 8 | 0 42 | 16 50 | 6 34 | 12 19 | 12 36 | 18 51 | 12 25 | 6 47 |
| S 3 | 15 1 | 17 48 | 4 48 | 23 39 | 2 47 | 27 34 | 5 17 | 17 35 | 1 42 | 22 29 | 0 17 | 21 20 | 1 16 | 18 50 | 0 40 | 22 8 | 0 42 | 16 49 | 6 34 | 12 23 | 12 37 | 18 52 | 12 25 | 6 47 |
| S 4 | 15 20 | 19 2 | 4 24 | 23 47 | 2 46 | 27 32 | 5 14 | 17 28 | 1 44 | 22 31 | 0 17 | 21 21 | 1 16 | 18 50 | 0 40 | 22 7 | 0 42 | 16 49 | 6 34 | 12 27 | 12 38 | 18 53 | 12 25 | 6 46 |
| M 5 | 15 39 | 19 26 | 3 48 | 23 54 | 2 44 | 27 29 | 5 11 | 17 21 | 1 45 | 22 32 | 0 17 | 21 22 | 1 15 | 18 50 | 0 40 | 22 7 | 0 42 | 16 49 | 6 34 | 12 29 | 12 39 | 18 53 | 12 26 | 6 46 |
| T 6 | 15 57 | 18 59 | 3 3 | 23 58 | 2 41 | 27 26 | 5 6 | 17 13 | 1 46 | 22 33 | 0 17 | 21 23 | 1 15 | 18 50 | 0 40 | 22 7 | 0 42 | 16 49 | 6 34 | 12 31 | 12 40 | 18 54 | 12 26 | 6 45 |
| W 7 | 16 15 | 17 41 | 2 9 | 24 0 | 2 37 | 27 21 | 5 2 | 17 6 | 1 48 | 22 35 | 0 17 | 21 24 | 1 15 | 18 49 | 0 40 | 22 7 | 0 42 | 16 49 | 6 34 | 12 32 | 12 41 | 18 55 | 12 26 | 6 45 |
| T 8 | 16 33 | 15 35 | 1 9 | 24 0 | 2 32 | 27 15 | 4 56 | 16 59 | 1 49 | 22 36 | 0 17 | 21 24 | 1 15 | 18 49 | 0 39 | 22 7 | 0 42 | 16 49 | 6 35 | 12 32 | 12 42 | 18 55 | 12 26 | 6 44 |
| F 9 | 16 50 | 12 44 | 0 4 | 23 58 | 2 25 | 27 9 | 4 51 | 16 52 | 1 51 | 22 37 | 0 16 | 21 25 | 1 15 | 18 49 | 0 39 | 22 7 | 0 42 | 16 49 | 6 35 | 12 32 | 12 44 | 18 56 | 12 26 | 6 44 |
| S 10 | 17 7 | 9 13 | 1s 2 | 23 52 | 2 17 | 27 2 | 4 44 | 16 45 | 1 52 | 22 39 | 0 16 | 21 26 | 1 15 | 18 48 | 0 39 | 22 7 | 0 42 | 16 49 | 6 35 | 12 32 | 12 45 | 18 56 | 12 26 | 6 43 |
| S 11 | 17 24 | 5 9 | 2 8 | 23 44 | 2 8 | 26 54 | 4 37 | 16 38 | 1 53 | 22 40 | 0 16 | 21 27 | 1 15 | 18 48 | 0 39 | 22 7 | 0 42 | 16 49 | 6 35 | 12 33 | 12 46 | 18 57 | 12 26 | 6 43 |
| M12 | 17 41 | 0 41 | 3 9 | 23 33 | 1 58 | 26 45 | 4 29 | 16 31 | 1 55 | 22 41 | 0 16 | 21 28 | 1 15 | 18 48 | 0 39 | 22 7 | 0 42 | 16 49 | 6 35 | 12 34 | 12 47 | 18 58 | 12 26 | 6 42 |
| T 13 | 17 57 | 3n58 | 4 0 | 23 19 | 1 46 | 26 34 | 4 21 | 16 24 | 1 56 | 22 42 | 0 16 | 21 29 | 1 15 | 18 47 | 0 39 | 22 6 | 0 42 | 16 49 | 6 35 | 12 37 | 12 48 | 18 58 | 12 26 | 6 42 |
| W14 | 18 13 | 8 33 | 4 38 | 23 2 | 1 32 | 26 23 | 4 12 | 16 17 | 1 58 | 22 44 | 0 16 | 21 29 | 1 14 | 18 47 | 0 39 | 22 6 | 0 42 | 16 49 | 6 35 | 12 40 | 12 49 | 18 59 | 12 26 | 6 41 |
| T 15 | 18 28 | 12 43 | 4 58 | 22 41 | 1 16 | 26 11 | 4 3 | 16 10 | 1 59 | 22 45 | 0 16 | 21 30 | 1 14 | 18 47 | 0 39 | 22 6 | 0 42 | 16 49 | 6 35 | 12 44 | 12 50 | 19 0 | 12 26 | 6 41 |
| F 16 | 18 44 | 16 8 | 4 57 | 22 17 | 1 0 | 25 58 | 3 53 | 16 3 | 2 1 | 22 46 | 0 16 | 21 31 | 1 14 | 18 46 | 0 39 | 22 6 | 0 42 | 16 48 | 6 35 | 12 48 | 12 51 | 19 0 | 12 26 | 6 40 |
| S 17 | 18 59 | 18 27 | 4 36 | 21 49 | 0 41 | 25 44 | 3 42 | 15 56 | 2 2 | 22 47 | 0 16 | 21 32 | 1 14 | 18 46 | 0 39 | 22 6 | 0 41 | 16 48 | 6 35 | 12 52 | 12 52 | 19 1 | 12 26 | 6 40 |
| S 18 | 19 13 | 19 29 | 3 56 | 21 19 | 0 22 | 25 29 | 3 31 | 15 50 | 2 4 | 22 48 | 0 15 | 21 33 | 1 14 | 18 45 | 0 39 | 22 6 | 0 41 | 16 48 | 6 35 | 12 55 | 12 53 | 19 1 | 12 26 | 6 39 |
| M19 | 19 27 | 19 9 | 3 1 | 20 45 | 0 2 | 25 14 | 3 19 | 15 43 | 2 6 | 22 49 | 0 15 | 21 33 | 1 14 | 18 45 | 0 39 | 22 6 | 0 41 | 16 48 | 6 35 | 12 57 | 12 54 | 19 2 | 12 25 | 6 39 |
| T 20 | 19 41 | 17 33 | 1 55 | 20 9 | 0n19 | 24 57 | 3 6 | 15 37 | 2 7 | 22 51 | 0 15 | 21 34 | 1 14 | 18 44 | 0 39 | 22 5 | 0 41 | 16 48 | 6 35 | 12 58 | 12 55 | 19 3 | 12 25 | 6 39 |
| W21 | 19 55 | 14 56 | 0 43 | 19 33 | 0 39 | 24 39 | 2 53 | 15 30 | 2 9 | 22 52 | 0 15 | 21 35 | 1 14 | 18 44 | 0 39 | 22 5 | 0 41 | 16 48 | 6 35 | 12 58 | 12 56 | 19 3 | 12 25 | 6 38 |
| T 22 | 20 8 | 11 33 | 0n28 | 18 55 | 0 59 | 24 20 | 2 40 | 15 24 | 2 10 | 22 53 | 0 15 | 21 36 | 1 14 | 18 43 | 0 39 | 22 5 | 0 41 | 16 48 | 6 35 | 12 58 | 12 58 | 19 4 | 12 25 | 6 38 |
| F 23 | 20 21 | 7 39 | 1 37 | 18 19 | 1 18 | 24 1 | 2 26 | 15 18 | 2 12 | 22 54 | 0 15 | 21 36 | 1 14 | 18 43 | 0 39 | 22 5 | 0 41 | 16 48 | 6 35 | 12 58 | 12 59 | 19 4 | 12 25 | 6 37 |
| S 24 | 20 33 | 3 29 | 2 39 | 17 44 | 1 35 | 23 41 | 2 12 | 15 11 | 2 14 | 22 55 | 0 15 | 21 37 | 1 13 | 18 43 | 0 39 | 22 5 | 0 41 | 16 48 | 6 35 | 12 59 | 13 0 | 19 5 | 12 25 | 6 37 |
| S 25 | 20 45 | 0s45 | 3 31 | 17 13 | 1 51 | 23 21 | 1 57 | 15 5 | 2 15 | 22 56 | 0 15 | 21 38 | 1 13 | 18 42 | 0 39 | 22 5 | 0 41 | 16 48 | 6 35 | 13 1 | 13 1 | 19 6 | 12 24 | 6 36 |
| M26 | 20 57 | 4 52 | 4 13 | 16 45 | 2 5 | 23 0 | 1 42 | 15 0 | 2 17 | 22 57 | 0 15 | 21 39 | 1 13 | 18 41 | 0 39 | 22 5 | 0 41 | 16 48 | 6 35 | 13 3 | 13 2 | 19 6 | 12 24 | 6 36 |
| T 27 | 21 8 | 8 45 | 4 42 | 16 21 | 2 16 | 22 38 | 1 27 | 14 54 | 2 19 | 22 58 | 0 15 | 21 39 | 1 13 | 18 41 | 0 39 | 22 4 | 0 41 | 16 48 | 6 35 | 13 7 | 13 3 | 19 7 | 12 24 | 6 36 |
| W28 | 21 19 | 12 12 | 4 57 | 16 2 | 2 25 | 22 16 | 1 11 | 14 48 | 2 20 | 22 59 | 0 14 | 21 40 | 1 13 | 18 40 | 0 39 | 22 4 | 0 41 | 16 48 | 6 35 | 13 11 | 13 4 | 19 7 | 12 23 | 6 35 |
| T 29 | 21 29 | 15 8 | 4 59 | 15 48 | 2 32 | 21 54 | 0 56 | 14 42 | 2 22 | 23 0 | 0 14 | 21 41 | 1 13 | 18 40 | 0 39 | 22 4 | 0 41 | 16 48 | 6 35 | 13 16 | 13 5 | 19 8 | 12 23 | 6 35 |
| F 30 | 21s40 | 17s24 | 4n48 | 15s39 | 2n37 | 21s32 | 0s40 | 14n37 | 2n24 | 23s 1 | 0n14 | 21s42 | 1n13 | 18s39 | 0s39 | 22s 4 | 0n41 | 16n48 | 6s35 | 13n21 | 13n 6 | 19s 9 | 12s23 | 6n34 |

Julian Day Number = 2328762.5, Delta T = 33.79 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'53, Lahiri = 19°09'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1663
# geocentric

## DECEMBER 1663 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 39 8 | 8♐52'50 | 23♐ 1 | 21°D29 | 2°R52 | 27♌49 | 22♐22 | 17♐45 | 9♒ 4 | 14♑ 0 | 24°R40 | 24°R22 | 25♌16 | 28♐17 | 6♒15 | S 1 |
| S 2 | 4 43 5 | 9°53'48 | 4♑51 | 21♏34 | 2♐18 | 28° 9 | 22°35 | 17°52 | 9° 6 | 14° 2 | 24♊39 | 24♌10 | 25°13 | 28°23 | 6°18 | S 2 |
| M 3 | 4 47 1 | 10°54'47 | 16°40 | 21°48 | 1°45 | 28°28 | 22°49 | 17°59 | 9° 8 | 14° 4 | 24°38 | 24° 1 | 25°10 | 28°30 | 6°21 | M 3 |
| T 4 | 4 50 58 | 11°55'47 | 28°30 | 22°12 | 1°13 | 28°47 | 23° 3 | 18° 6 | 9°11 | 14° 6 | 24°36 | 23°55 | 25° 7 | 28°37 | 6°24 | T 4 |
| W 5 | 4 54 54 | 12°56'47 | 10♒24 | 22°43 | 0°43 | 29° 5 | 23°16 | 18°13 | 9°13 | 14° 8 | 24°35 | 23°52 | 25° 4 | 28°44 | 6°28 | W 5 |
| T 6 | 4 58 51 | 13°57'48 | 22°26 | 23°22 | 0°14 | 29°23 | 23°30 | 18°20 | 9°15 | 14°10 | 24°34 | 23°D51 | 25° 0 | 28°50 | 6°31 | T 6 |
| F 7 | 5 2 48 | 14°58'49 | 4♓42 | 24° 7 | 29♏48 | 29°41 | 23°44 | 18°27 | 9°17 | 14°12 | 24°33 | 23°52 | 24°57 | 28°57 | 6°34 | F 7 |
| S 8 | 5 6 44 | 15°59'51 | 17°17 | 24°58 | 29°23 | 29°58 | 23°57 | 18°34 | 9°20 | 14°14 | 24°32 | 23°R52 | 24°54 | 29° 4 | 6°38 | S 8 |
| S 9 | 5 10 41 | 17° 0'54 | 0♈15 | 25°54 | 29° 1 | 0♍14 | 24°11 | 18°41 | 9°22 | 14°16 | 24°30 | 23°51 | 24°51 | 29°10 | 6°41 | S 9 |
| M10 | 5 14 37 | 18° 1'56 | 13°40 | 26°54 | 28°41 | 0°30 | 24°25 | 18°48 | 9°25 | 14°18 | 24°29 | 23°48 | 24°48 | 29°17 | 6°45 | M10 |
| T 11 | 5 18 34 | 19° 3'00 | 27°36 | 27°58 | 28°23 | 0°46 | 24°38 | 18°55 | 9°27 | 14°21 | 24°28 | 23°43 | 24°45 | 29°24 | 6°48 | T 11 |
| W12 | 5 22 30 | 20° 4'04 | 12♉ 2 | 29° 5 | 28° 7 | 1° 1 | 24°52 | 19° 2 | 9°30 | 14°23 | 24°27 | 23°35 | 24°41 | 29°30 | 6°52 | W12 |
| T 13 | 5 26 27 | 21° 5'08 | 26°54 | 0♐15 | 27°54 | 1°15 | 25° 6 | 19° 9 | 9°32 | 14°25 | 24°26 | 23°26 | 24°38 | 29°37 | 6°55 | T 13 |
| F 14 | 5 30 23 | 22° 6'13 | 12♊ 6 | 1°27 | 27°44 | 1°30 | 25°20 | 19°16 | 9°35 | 14°27 | 24°25 | 23°16 | 24°35 | 29°44 | 6°59 | F 14 |
| S 15 | 5 34 20 | 23° 7'18 | 27°27 | 2°42 | 27°36 | 1°43 | 25°33 | 19°23 | 9°38 | 14°29 | 24°23 | 23° 7 | 24°32 | 29°51 | 7° 3 | S 15 |
| S 16 | 5 38 17 | 24° 8'24 | 12♋44 | 3°59 | 27°30 | 1°56 | 25°47 | 19°30 | 9°40 | 14°31 | 24°22 | 22°59 | 24°29 | 29°57 | 7° 6 | S 16 |
| M17 | 5 42 13 | 25° 9'31 | 27°48 | 5°18 | 27°27 | 2° 9 | 26° 1 | 19°37 | 9°43 | 14°33 | 24°21 | 22°54 | 24°25 | 0♑ 4 | 7°10 | M17 |
| T 18 | 5 46 10 | 26°10'38 | 12♌31 | 6°38 | 27°D27 | 2°20 | 26°15 | 19°44 | 9°46 | 14°36 | 24°20 | 22°52 | 24°22 | 0°11 | 7°14 | T 18 |
| W19 | 5 50 6 | 27°11'45 | 26°47 | 7°59 | 27°28 | 2°32 | 26°29 | 19°51 | 9°48 | 14°38 | 24°19 | 22°D52 | 24°19 | 0°17 | 7°18 | W19 |
| T 20 | 5 54 3 | 28°12'54 | 10♍36 | 9°21 | 27°33 | 2°43 | 26°42 | 19°58 | 9°51 | 14°40 | 24°17 | 22°52 | 24°16 | 0°24 | 7°22 | T 20 |
| F 21 | 5 57 59 | 29°14'03 | 23°57 | 10°45 | 27°39 | 2°53 | 26°56 | 20° 5 | 9°54 | 14°42 | 24°16 | 22°R53 | 24°13 | 0°31 | 7°26 | F 21 |
| S 22 | 6 1 56 | 0♑15'12 | 6♎56 | 12° 9 | 27°48 | 3° 2 | 27°10 | 20°12 | 9°57 | 14°44 | 24°15 | 22°53 | 24°10 | 0°37 | 7°30 | S 22 |
| S 23 | 6 5 52 | 1°16'22 | 19°34 | 13°35 | 28° 0 | 3°11 | 27°24 | 20°19 | 10° 0 | 14°47 | 24°14 | 22°51 | 24° 6 | 0°44 | 7°34 | S 23 |
| M24 | 6 9 49 | 2°17'33 | 1♏57 | 15° 1 | 28°13 | 3°19 | 27°37 | 20°26 | 10° 3 | 14°49 | 24°13 | 22°47 | 24° 3 | 0°51 | 7°38 | M24 |
| T 25 | 6 13 46 | 3°18'44 | 14° 8 | 16°27 | 28°29 | 3°27 | 27°51 | 20°33 | 10° 6 | 14°51 | 24°11 | 22°41 | 24° 0 | 0°58 | 7°42 | T 25 |
| W26 | 6 17 42 | 4°19'55 | 26°11 | 17°55 | 28°46 | 3°34 | 28° 5 | 20°40 | 10° 9 | 14°53 | 24°10 | 22°32 | 23°57 | 1° 4 | 7°46 | W26 |
| T 27 | 6 21 39 | 5°21'07 | 8♐ 7 | 19°23 | 29° 6 | 3°40 | 28°19 | 20°47 | 10°12 | 14°56 | 24° 9 | 22°23 | 23°54 | 1°11 | 7°50 | T 27 |
| F 28 | 6 25 35 | 6°22'18 | 20° 0 | 20°51 | 29°28 | 3°46 | 28°33 | 20°54 | 10°15 | 14°58 | 24° 8 | 22°13 | 23°51 | 1°18 | 7°54 | F 28 |
| S 29 | 6 29 32 | 7°23'30 | 1♑50 | 22°20 | 29°51 | 3°51 | 28°46 | 21° 1 | 10°18 | 15° 0 | 24° 7 | 22° 4 | 23°47 | 1°24 | 7°58 | S 29 |
| S 30 | 6 33 28 | 8°24'43 | 13°40 | 23°50 | 0♐16 | 3°55 | 29° 0 | 21° 8 | 10°21 | 15° 2 | 24° 6 | 21°57 | 23°44 | 1°31 | 8° 2 | S 30 |
| M31 | 6 37 25 | 9♑25'54 | 25♑32 | 25♐20 | 0♐43 | 3♍59 | 29♐14 | 21♐15 | 10♒24 | 15♑ 5 | 24♊ 4 | 21♌51 | 23♌41 | 1♑38 | 8♒ 7 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s49 | 18s54 | 4n24 | 15s35 | 2n41 | 21s10 | 0s24 | 14n32 | 2n26 | 23s 2 | 0n14 | 21s42 | 1n13 | 18s39 | 0s39 | 22s 4 | 0n41 | 16n48 | 6s35 | 13n25 | 13n 7 | 19s 9 | 12s23 | 6n34 |
| S 2 | 21 58 | 19 35 | 3 49 | 15 35 | 2 42 | 20 48 | 0 9 | 14 26 | 2 27 | 23 2 | 0 14 | 21 43 | 1 13 | 18 38 | 0 39 | 22 3 | 0 41 | 16 48 | 6 35 | 13 29 | 13 8 | 19 10 | 12 22 | 6 34 |
| M 3 | 22 7 | 19 24 | 3 4 | 15 38 | 2 42 | 20 26 | 0n 6 | 14 21 | 2 29 | 23 3 | 0 14 | 21 44 | 1 13 | 18 37 | 0 39 | 22 3 | 0 41 | 16 48 | 6 35 | 13 32 | 13 9 | 19 10 | 12 22 | 6 33 |
| T 4 | 22 16 | 18 22 | 2 10 | 15 46 | 2 41 | 20 5 | 0 22 | 14 16 | 2 31 | 23 4 | 0 14 | 21 44 | 1 13 | 18 37 | 0 39 | 22 3 | 0 41 | 16 48 | 6 35 | 13 34 | 13 10 | 19 11 | 12 21 | 6 33 |
| W 5 | 22 23 | 16 32 | 1 11 | 15 56 | 2 38 | 19 44 | 0 37 | 14 12 | 2 33 | 23 5 | 0 14 | 21 45 | 1 13 | 18 36 | 0 39 | 22 3 | 0 41 | 16 48 | 6 35 | 13 35 | 13 11 | 19 11 | 12 21 | 6 32 |
| T 6 | 22 31 | 13 56 | 0 8 | 16 9 | 2 35 | 19 24 | 0 51 | 14 7 | 2 35 | 23 6 | 0 14 | 21 46 | 1 13 | 18 36 | 0 39 | 22 3 | 0 41 | 16 48 | 6 35 | 13 35 | 13 13 | 19 12 | 12 21 | 6 32 |
| F 7 | 22 38 | 10 42 | 0s57 | 16 24 | 2 31 | 19 4 | 1 6 | 14 3 | 2 36 | 23 6 | 0 14 | 21 46 | 1 12 | 18 35 | 0 39 | 22 3 | 0 41 | 16 47 | 6 35 | 13 35 | 13 14 | 19 12 | 12 20 | 6 32 |
| S 8 | 22 45 | 6 54 | 2 1 | 16 41 | 2 25 | 18 46 | 1 19 | 13 58 | 2 38 | 23 7 | 0 13 | 21 47 | 1 12 | 18 34 | 0 39 | 22 2 | 0 41 | 16 47 | 6 35 | 13 35 | 13 15 | 19 13 | 12 20 | 6 31 |
| S 9 | 22 51 | 2 40 | 3 1 | 17 0 | 2 20 | 18 28 | 1 33 | 13 54 | 2 40 | 23 8 | 0 13 | 21 48 | 1 12 | 18 34 | 0 39 | 22 2 | 0 41 | 16 47 | 6 35 | 13 36 | 13 16 | 19 14 | 12 19 | 6 31 |
| M10 | 22 56 | 1n49 | 3 53 | 17 20 | 2 14 | 18 11 | 1 46 | 13 50 | 2 42 | 23 9 | 0 13 | 21 48 | 1 12 | 18 33 | 0 39 | 22 2 | 0 41 | 16 47 | 6 35 | 13 37 | 13 17 | 19 14 | 12 19 | 6 31 |
| T 11 | 23 2 | 6 23 | 4 33 | 17 40 | 2 7 | 17 54 | 1 59 | 13 47 | 2 44 | 23 9 | 0 13 | 21 49 | 1 12 | 18 32 | 0 39 | 22 2 | 0 41 | 16 47 | 6 35 | 13 38 | 13 18 | 19 15 | 12 18 | 6 30 |
| W12 | 23 7 | 10 45 | 4 58 | 18 2 | 2 0 | 17 39 | 2 11 | 13 43 | 2 46 | 23 10 | 0 13 | 21 50 | 1 12 | 18 32 | 0 39 | 22 2 | 0 41 | 16 47 | 6 35 | 13 41 | 13 19 | 19 15 | 12 18 | 6 30 |
| T 13 | 23 11 | 14 35 | 5 3 | 18 24 | 1 53 | 17 25 | 2 22 | 13 40 | 2 48 | 23 10 | 0 13 | 21 50 | 1 12 | 18 31 | 0 39 | 22 1 | 0 41 | 16 47 | 6 35 | 13 44 | 13 20 | 19 16 | 12 17 | 6 30 |
| F 14 | 23 15 | 17 32 | 4 48 | 18 46 | 1 46 | 17 12 | 2 33 | 13 36 | 2 50 | 23 11 | 0 13 | 21 51 | 1 12 | 18 30 | 0 39 | 22 1 | 0 41 | 16 47 | 6 35 | 13 47 | 13 21 | 19 16 | 12 16 | 6 29 |
| S 15 | 23 18 | 19 16 | 4 12 | 19 8 | 1 38 | 17 0 | 2 44 | 13 33 | 2 52 | 23 12 | 0 13 | 21 52 | 1 12 | 18 29 | 0 39 | 22 1 | 0 41 | 16 47 | 6 35 | 13 50 | 13 22 | 19 17 | 12 16 | 6 29 |
| S 16 | 23 21 | 19 36 | 3 17 | 19 30 | 1 30 | 16 49 | 2 54 | 13 30 | 2 54 | 23 12 | 0 13 | 21 52 | 1 12 | 18 29 | 0 39 | 22 1 | 0 41 | 16 47 | 6 35 | 13 53 | 13 23 | 19 17 | 12 15 | 6 29 |
| M17 | 23 24 | 18 31 | 2 10 | 19 52 | 1 23 | 16 39 | 3 3 | 13 28 | 2 56 | 23 13 | 0 13 | 21 53 | 1 12 | 18 28 | 0 39 | 22 0 | 0 41 | 16 47 | 6 35 | 13 54 | 13 24 | 19 18 | 12 15 | 6 28 |
| T 18 | 23 26 | 16 12 | 0 55 | 20 14 | 1 15 | 16 30 | 3 12 | 13 25 | 2 58 | 23 13 | 0 12 | 21 53 | 1 12 | 18 27 | 0 39 | 22 0 | 0 41 | 16 47 | 6 34 | 13 55 | 13 25 | 19 18 | 12 14 | 6 28 |
| W19 | 23 27 | 12 56 | 0n21 | 20 35 | 1 7 | 16 23 | 3 20 | 13 23 | 3 0 | 23 14 | 0 12 | 21 54 | 1 12 | 18 26 | 0 38 | 22 0 | 0 41 | 16 47 | 6 34 | 13 55 | 13 26 | 19 19 | 12 13 | 6 28 |
| T 20 | 23 28 | 9 3 | 1 34 | 20 55 | 0 59 | 16 16 | 3 28 | 13 21 | 3 2 | 23 14 | 0 12 | 21 55 | 1 12 | 18 26 | 0 38 | 22 0 | 0 41 | 16 47 | 6 34 | 13 55 | 13 27 | 19 19 | 12 13 | 6 27 |
| F 21 | 23 29 | 4 50 | 2 39 | 21 15 | 0 51 | 16 10 | 3 36 | 13 19 | 3 4 | 23 15 | 0 12 | 21 55 | 1 12 | 18 25 | 0 38 | 22 0 | 0 41 | 16 47 | 6 34 | 13 55 | 13 28 | 19 20 | 12 12 | 6 27 |
| S 22 | 23 29 | 0 31 | 3 34 | 21 35 | 0 43 | 16 5 | 3 43 | 13 18 | 3 6 | 23 15 | 0 12 | 21 56 | 1 12 | 18 24 | 0 38 | 21 59 | 0 41 | 16 47 | 6 34 | 13 55 | 13 29 | 19 20 | 12 11 | 6 27 |
| S 23 | 23 28 | 3s42 | 4 17 | 21 53 | 0 35 | 16 2 | 3 49 | 13 17 | 3 8 | 23 15 | 0 12 | 21 56 | 1 12 | 18 23 | 0 38 | 21 59 | 0 41 | 16 47 | 6 34 | 13 55 | 13 31 | 19 21 | 12 11 | 6 27 |
| M24 | 23 28 | 7 41 | 4 47 | 22 11 | 0 27 | 15 59 | 3 55 | 13 16 | 3 10 | 23 16 | 0 12 | 21 57 | 1 12 | 18 23 | 0 38 | 21 59 | 0 41 | 16 47 | 6 34 | 13 57 | 13 32 | 19 21 | 12 10 | 6 26 |
| T 25 | 23 26 | 11 16 | 5 4 | 22 28 | 0 20 | 15 57 | 4 0 | 13 15 | 3 13 | 23 16 | 0 12 | 21 57 | 1 12 | 18 22 | 0 38 | 21 59 | 0 41 | 16 48 | 6 34 | 13 59 | 13 33 | 19 22 | 12 9 | 6 26 |
| W26 | 23 25 | 14 22 | 5 6 | 22 44 | 0 12 | 15 56 | 4 5 | 13 14 | 3 15 | 23 16 | 0 12 | 21 58 | 1 11 | 18 21 | 0 38 | 21 58 | 0 41 | 16 48 | 6 34 | 14 1 | 13 34 | 19 22 | 12 8 | 6 26 |
| T 27 | 23 22 | 16 50 | 4 56 | 22 59 | 0 5 | 15 55 | 4 10 | 13 14 | 3 17 | 23 17 | 0 12 | 21 58 | 1 11 | 18 20 | 0 38 | 21 58 | 0 41 | 16 48 | 6 34 | 14 5 | 13 35 | 19 23 | 12 8 | 6 26 |
| F 28 | 23 20 | 18 35 | 4 32 | 23 13 | 0s 3 | 15 56 | 4 14 | 13 14 | 3 19 | 23 17 | 0 12 | 21 59 | 1 11 | 18 19 | 0 38 | 21 58 | 0 41 | 16 48 | 6 34 | 14 8 | 13 36 | 19 23 | 12 7 | 6 25 |
| S 29 | 23 16 | 19 31 | 3 57 | 23 26 | 0 10 | 15 57 | 4 18 | 13 14 | 3 21 | 23 17 | 0 11 | 21 59 | 1 11 | 18 18 | 0 38 | 21 58 | 0 41 | 16 48 | 6 34 | 14 11 | 13 37 | 19 24 | 12 6 | 6 25 |
| S 30 | 23 13 | 19 36 | 3 12 | 23 37 | 0 17 | 15 59 | 4 21 | 13 15 | 3 23 | 23 17 | 0 11 | 22 0 | 1 11 | 18 18 | 0 38 | 21 58 | 0 41 | 16 48 | 6 34 | 14 13 | 13 38 | 19 24 | 12 5 | 6 25 |
| M31 | 23s 9 | 18s49 | 2n18 | 23s48 | 0s24 | 16s 1 | 4n25 | 13n15 | 3n26 | 23s17 | 0n11 | 22s 0 | 1n11 | 18s17 | 0s38 | 21s57 | 0n41 | 16n48 | 6s34 | 14n15 | 13n39 | 19s25 | 12s 4 | 6n25 |

Julian Day Number = 2328792.5, Delta T = 33.73 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°02'57, Lahiri = 19°09'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## JANUARY 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 41 21 | 10♉27'06 | 7♒26 | 26♐50 | 1♐12 | 4♍ 1 | 29♐27 | 21♐22 | 10♒27 | 15♉ 7 | 24°R 3 | 21°R48 | 23♌38 | 1♉44 | 8♒11 | T 1 |
| W 2 | 6 45 18 | 11°28'18 | 19°26 | 28°21 | 1°42 | 4° 3 | 29°41 | 21°28 | 10°30 | 15° 9 | 24♊ 2 | 21°D46 | 23°35 | 1°51 | 8°15 | W 2 |
| T 3 | 6 49 15 | 12°29'29 | 1♓35 | 29°52 | 2°14 | 4° 5 | 29°55 | 21°35 | 10°33 | 15°11 | 24° 1 | 21♌47 | 23°31 | 1°58 | 8°20 | T 3 |
| F 4 | 6 53 11 | 13°30'40 | 13°55 | 1♉24 | 2°47 | 4°R 5 | 0♉ 8 | 21°42 | 10°36 | 15°14 | 24° 0 | 21°48 | 23°28 | 2° 4 | 8°24 | F 4 |
| S 5 | 6 57 8 | 14°31'50 | 26°30 | 2°56 | 3°22 | 4° 5 | 0°22 | 21°49 | 10°40 | 15°16 | 23°59 | 21°50 | 23°25 | 2°11 | 8°28 | S 5 |
| S 6 | 7 1 4 | 15°32'59 | 9♈25 | 4°29 | 3°58 | 4° 4 | 0°36 | 21°55 | 10°43 | 15°18 | 23°58 | 21°R51 | 23°22 | 2°18 | 8°33 | S 6 |
| M 7 | 7 5 1 | 16°34'08 | 22°43 | 6° 2 | 4°35 | 4° 2 | 0°49 | 22° 2 | 10°46 | 15°20 | 23°57 | 21°51 | 23°19 | 2°25 | 8°37 | M 7 |
| T 8 | 7 8 57 | 17°35'17 | 6♉27 | 7°35 | 5°14 | 4° 0 | 1° 3 | 22° 9 | 10°49 | 15°23 | 23°56 | 21°50 | 23°16 | 2°31 | 8°41 | T 8 |
| W 9 | 7 12 54 | 18°36'25 | 20°38 | 9° 9 | 5°54 | 3°56 | 1°16 | 22°15 | 10°53 | 15°25 | 23°54 | 21°47 | 23°12 | 2°38 | 8°46 | W 9 |
| T 10 | 7 16 50 | 19°37'32 | 5♊14 | 10°44 | 6°35 | 3°52 | 1°30 | 22°22 | 10°56 | 15°27 | 23°53 | 21°42 | 23° 9 | 2°45 | 8°50 | T 10 |
| F 11 | 7 20 47 | 20°38'38 | 20°11 | 12°19 | 7°17 | 3°47 | 1°43 | 22°28 | 10°59 | 15°30 | 23°52 | 21°38 | 23° 6 | 2°51 | 8°55 | F 11 |
| S 12 | 7 24 44 | 21°39'44 | 5♋22 | 13°54 | 8° 1 | 3°42 | 1°57 | 22°35 | 11° 3 | 15°32 | 23°51 | 21°33 | 23° 3 | 2°58 | 8°59 | S 12 |
| S 13 | 7 28 40 | 22°40'49 | 20°36 | 15°30 | 8°45 | 3°35 | 2°10 | 22°41 | 11° 6 | 15°34 | 23°50 | 21°30 | 23° 0 | 3° 5 | 9° 4 | S 13 |
| M14 | 7 32 37 | 23°41'54 | 5♌43 | 17° 7 | 9°30 | 3°28 | 2°23 | 22°48 | 11° 9 | 15°36 | 23°49 | 21°27 | 22°57 | 3°11 | 9° 8 | M14 |
| T 15 | 7 36 33 | 24°42'58 | 20°34 | 18°44 | 10°17 | 3°20 | 2°37 | 22°54 | 11°13 | 15°39 | 23°48 | 21°D27 | 22°53 | 3°18 | 9°13 | T 15 |
| W16 | 7 40 30 | 25°44'01 | 5♍ 2 | 20°21 | 11° 4 | 3°11 | 2°50 | 23° 0 | 11°16 | 15°41 | 23°47 | 21°27 | 22°50 | 3°25 | 9°18 | W16 |
| T 17 | 7 44 26 | 26°45'04 | 19° 3 | 21°59 | 11°52 | 3° 1 | 3° 3 | 23° 7 | 11°20 | 15°43 | 23°46 | 21°28 | 22°47 | 3°31 | 9°22 | T 17 |
| F 18 | 7 48 23 | 27°46'06 | 2♎37 | 23°38 | 12°41 | 2°51 | 3°16 | 23°13 | 11°23 | 15°45 | 23°45 | 21°30 | 22°44 | 3°38 | 9°27 | F 18 |
| S 19 | 7 52 19 | 28°47'08 | 15°44 | 25°17 | 13°31 | 2°39 | 3°30 | 23°19 | 11°26 | 15°48 | 23°44 | 21°31 | 22°41 | 3°45 | 9°31 | S 19 |
| S 20 | 7 56 16 | 29°48'09 | 28°28 | 26°57 | 14°22 | 2°27 | 3°43 | 23°25 | 11°30 | 15°50 | 23°43 | 21°R32 | 22°37 | 3°52 | 9°36 | S 20 |
| M21 | 8 0 13 | 0♒49'10 | 10♏52 | 28°38 | 15°13 | 2°15 | 3°56 | 23°31 | 11°33 | 15°52 | 23°42 | 21°32 | 22°34 | 3°58 | 9°41 | M21 |
| T 22 | 8 4 9 | 1°50'10 | 23° 2 | 0♒19 | 16° 5 | 2° 1 | 4° 9 | 23°37 | 11°37 | 15°54 | 23°42 | 21°30 | 22°31 | 4° 5 | 9°45 | T 22 |
| W23 | 8 8 6 | 2°51'10 | 5♐ 1 | 2° 1 | 16°58 | 1°47 | 4°22 | 23°43 | 11°40 | 15°56 | 23°41 | 21°28 | 22°28 | 4°12 | 9°50 | W23 |
| T 24 | 8 12 2 | 3°52'09 | 16°53 | 3°43 | 17°51 | 1°31 | 4°35 | 23°49 | 11°44 | 15°59 | 23°40 | 21°25 | 22°25 | 4°18 | 9°54 | T 24 |
| F 25 | 8 15 59 | 4°53'07 | 28°43 | 5°27 | 18°46 | 1°16 | 4°48 | 23°55 | 11°47 | 16° 1 | 23°39 | 21°22 | 22°22 | 4°25 | 9°59 | F 25 |
| S 26 | 8 19 55 | 5°54'05 | 10♉32 | 7°11 | 19°40 | 0°59 | 5° 1 | 24° 1 | 11°51 | 16° 3 | 23°38 | 21°20 | 22°18 | 4°32 | 10° 4 | S 26 |
| S 27 | 8 23 52 | 6°55'01 | 22°25 | 8°55 | 20°36 | 0°42 | 5°13 | 24° 7 | 11°54 | 16° 5 | 23°37 | 21°18 | 22°15 | 4°38 | 10° 8 | S 27 |
| M28 | 8 27 49 | 7°55'57 | 4♒22 | 10°40 | 21°32 | 0°24 | 5°26 | 24°13 | 11°58 | 16° 7 | 23°36 | 21°16 | 22°12 | 4°45 | 10°13 | M28 |
| T 29 | 8 31 45 | 8°56'51 | 16°26 | 12°26 | 22°28 | 0° 5 | 5°39 | 24°18 | 12° 1 | 16°10 | 23°36 | 21°D16 | 22° 9 | 4°52 | 10°18 | T 29 |
| W30 | 8 35 42 | 9°57'44 | 28°38 | 14°12 | 23°25 | 29♌46 | 5°51 | 24°24 | 12° 4 | 16°12 | 23°35 | 21°16 | 22° 6 | 4°58 | 10°22 | W30 |
| T 31 | 8 39 38 | 10♒58'36 | 11♓ 0 | 15♒59 | 24♐23 | 29♌26 | 6♉ 4 | 24♐30 | 12♒ 8 | 16♉14 | 23♊34 | 21♌16 | 22♌ 3 | 5♉ 5 | 10♒27 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 4 | 17s12 | 1n17 | 23s58 | 0s31 | 16s 4 | 4n27 | 13n16 | 3n28 | 23s18 | 0n11 | 22s 1 | 1n11 | 18s16 | 0s38 | 21s57 | 0n41 | 16n48 | 6s33 | 14n16 | 13n40 | 19s25 | 12s 3 | 6n24 |
| W 2 | 22 59 | 14 49 | 0 13 | 24 6 | 0 38 | 16 8 | 4 30 | 13 18 | 3 30 | 23 18 | 0 11 | 22 1 | 1 11 | 18 15 | 0 38 | 21 57 | 0 41 | 16 48 | 6 33 | 14 16 | 13 41 | 19 25 | 12 3 | 6 24 |
| T 3 | 22 54 | 11 46 | 0s53 | 24 13 | 0 44 | 16 12 | 4 32 | 13 19 | 3 32 | 23 18 | 0 11 | 22 2 | 1 11 | 18 14 | 0 38 | 21 57 | 0 41 | 16 48 | 6 33 | 14 16 | 13 42 | 19 26 | 12 2 | 6 24 |
| F 4 | 22 48 | 8 9 | 1 58 | 24 19 | 0 50 | 16 17 | 4 33 | 13 21 | 3 34 | 23 18 | 0 11 | 22 2 | 1 11 | 18 13 | 0 38 | 21 56 | 0 41 | 16 48 | 6 33 | 14 16 | 13 43 | 19 26 | 12 1 | 6 24 |
| S 5 | 22 41 | 4 7 | 2 58 | 24 23 | 0 57 | 16 22 | 4 35 | 13 23 | 3 37 | 23 18 | 0 11 | 22 3 | 1 11 | 18 12 | 0 38 | 21 56 | 0 41 | 16 48 | 6 33 | 14 15 | 13 44 | 19 27 | 12 0 | 6 24 |
| S 6 | 22 34 | 0n12 | 3 51 | 24 27 | 1 2 | 16 28 | 4 36 | 13 26 | 3 39 | 23 18 | 0 11 | 22 3 | 1 11 | 18 11 | 0 38 | 21 56 | 0 41 | 16 48 | 6 33 | 14 15 | 13 45 | 19 27 | 11 59 | 6 23 |
| M 7 | 22 27 | 4 37 | 4 33 | 24 29 | 1 8 | 16 34 | 4 36 | 13 28 | 3 41 | 23 18 | 0 11 | 22 3 | 1 11 | 18 11 | 0 38 | 21 56 | 0 41 | 16 48 | 6 33 | 14 15 | 13 46 | 19 28 | 11 58 | 6 23 |
| T 8 | 22 19 | 8 57 | 5 1 | 24 29 | 1 14 | 16 40 | 4 37 | 13 31 | 3 43 | 23 18 | 0 11 | 22 4 | 1 11 | 18 10 | 0 38 | 21 55 | 0 40 | 16 48 | 6 33 | 14 15 | 13 47 | 19 28 | 11 57 | 6 23 |
| W 9 | 22 11 | 12 55 | 5 12 | 24 29 | 1 19 | 16 47 | 4 37 | 13 34 | 3 45 | 23 18 | 0 10 | 22 4 | 1 11 | 18 9 | 0 38 | 21 55 | 0 40 | 16 48 | 6 33 | 14 16 | 13 48 | 19 29 | 11 56 | 6 23 |
| T 10 | 22 3 | 16 14 | 5 4 | 24 27 | 1 24 | 16 54 | 4 37 | 13 38 | 3 47 | 23 18 | 0 10 | 22 5 | 1 11 | 18 8 | 0 38 | 21 55 | 0 40 | 16 48 | 6 33 | 14 18 | 13 49 | 19 29 | 11 55 | 6 23 |
| F 11 | 21 54 | 18 33 | 4 35 | 24 23 | 1 29 | 17 1 | 4 37 | 13 42 | 3 49 | 23 18 | 0 10 | 22 5 | 1 11 | 18 7 | 0 38 | 21 55 | 0 40 | 16 48 | 6 32 | 14 19 | 13 50 | 19 29 | 11 54 | 6 23 |
| S 12 | 21 44 | 19 36 | 3 46 | 24 18 | 1 33 | 17 8 | 4 36 | 13 46 | 3 52 | 23 18 | 0 10 | 22 5 | 1 11 | 18 6 | 0 38 | 21 54 | 0 40 | 16 48 | 6 32 | 14 21 | 13 51 | 19 30 | 11 53 | 6 22 |
| S 13 | 21 34 | 19 15 | 2 41 | 24 12 | 1 38 | 17 15 | 4 36 | 13 50 | 3 54 | 23 18 | 0 10 | 22 6 | 1 11 | 18 5 | 0 38 | 21 54 | 0 40 | 16 48 | 6 32 | 14 22 | 13 53 | 19 30 | 11 52 | 6 22 |
| M14 | 21 24 | 17 30 | 1 25 | 24 4 | 1 42 | 17 23 | 4 35 | 13 55 | 3 56 | 23 18 | 0 10 | 22 6 | 1 11 | 18 4 | 0 38 | 21 54 | 0 40 | 16 49 | 6 32 | 14 23 | 13 54 | 19 31 | 11 51 | 6 22 |
| T 15 | 21 13 | 14 35 | 0 5 | 23 55 | 1 45 | 17 31 | 4 34 | 14 0 | 3 58 | 23 17 | 0 10 | 22 6 | 1 11 | 18 3 | 0 38 | 21 54 | 0 40 | 16 49 | 6 32 | 14 23 | 13 55 | 19 31 | 11 50 | 6 22 |
| W16 | 21 2 | 10 50 | 1n14 | 23 44 | 1 49 | 17 39 | 4 32 | 14 5 | 4 0 | 23 17 | 0 10 | 22 7 | 1 11 | 18 2 | 0 38 | 21 53 | 0 40 | 16 49 | 6 32 | 14 23 | 13 56 | 19 32 | 11 49 | 6 22 |
| T 17 | 20 51 | 6 35 | 2 26 | 23 31 | 1 52 | 17 47 | 4 31 | 14 10 | 4 2 | 23 17 | 0 10 | 22 7 | 1 11 | 18 1 | 0 38 | 21 53 | 0 40 | 16 49 | 6 32 | 14 22 | 13 57 | 19 32 | 11 48 | 6 22 |
| F 18 | 20 39 | 2 8 | 3 28 | 23 18 | 1 55 | 17 55 | 4 29 | 14 16 | 4 4 | 23 17 | 0 10 | 22 7 | 1 11 | 18 0 | 0 38 | 21 53 | 0 40 | 16 49 | 6 32 | 14 22 | 13 58 | 19 32 | 11 47 | 6 22 |
| S 19 | 20 26 | 2s16 | 4 16 | 23 2 | 1 57 | 18 2 | 4 27 | 14 22 | 4 6 | 23 16 | 0 10 | 22 8 | 1 11 | 17 59 | 0 38 | 21 53 | 0 40 | 16 49 | 6 31 | 14 21 | 13 59 | 19 33 | 11 46 | 6 22 |
| S 20 | 20 14 | 6 25 | 4 50 | 22 45 | 1 59 | 18 10 | 4 25 | 14 28 | 4 8 | 23 16 | 0 10 | 22 8 | 1 11 | 17 58 | 0 38 | 21 52 | 0 40 | 16 49 | 6 31 | 14 21 | 14 0 | 19 33 | 11 45 | 6 21 |
| M21 | 20 1 | 10 12 | 5 10 | 22 27 | 2 1 | 18 18 | 4 23 | 14 34 | 4 9 | 23 16 | 0 9 | 22 8 | 1 11 | 17 58 | 0 38 | 21 52 | 0 40 | 16 49 | 6 31 | 14 21 | 14 1 | 19 34 | 11 44 | 6 21 |
| T 22 | 19 47 | 13 28 | 5 15 | 22 7 | 2 3 | 18 26 | 4 21 | 14 41 | 4 11 | 23 16 | 0 9 | 22 9 | 1 11 | 17 57 | 0 38 | 21 52 | 0 40 | 16 49 | 6 31 | 14 22 | 14 2 | 19 34 | 11 43 | 6 21 |
| W23 | 19 33 | 16 8 | 5 7 | 21 45 | 2 4 | 18 34 | 4 18 | 14 48 | 4 13 | 23 15 | 0 9 | 22 9 | 1 11 | 17 56 | 0 38 | 21 52 | 0 40 | 16 49 | 6 31 | 14 22 | 14 3 | 19 34 | 11 41 | 6 21 |
| T 24 | 19 19 | 18 6 | 4 45 | 21 22 | 2 4 | 18 41 | 4 15 | 14 55 | 4 15 | 23 15 | 0 9 | 22 9 | 1 11 | 17 55 | 0 38 | 21 51 | 0 40 | 16 49 | 6 31 | 14 23 | 14 4 | 19 35 | 11 40 | 6 21 |
| F 25 | 19 5 | 19 17 | 4 11 | 20 57 | 2 5 | 18 49 | 4 13 | 15 2 | 4 16 | 23 15 | 0 9 | 22 9 | 1 11 | 17 54 | 0 38 | 21 51 | 0 40 | 16 50 | 6 31 | 14 24 | 14 5 | 19 35 | 11 39 | 6 21 |
| S 26 | 18 50 | 19 38 | 3 27 | 20 31 | 2 4 | 18 56 | 4 10 | 15 9 | 4 18 | 23 14 | 0 9 | 22 10 | 1 11 | 17 53 | 0 38 | 21 51 | 0 40 | 16 50 | 6 30 | 14 25 | 14 6 | 19 35 | 11 38 | 6 21 |
| S 27 | 18 35 | 19 6 | 2 33 | 20 3 | 2 4 | 19 3 | 4 7 | 15 17 | 4 19 | 23 14 | 0 9 | 22 10 | 1 11 | 17 52 | 0 38 | 21 50 | 0 40 | 16 50 | 6 30 | 14 26 | 14 7 | 19 36 | 11 37 | 6 21 |
| M28 | 18 19 | 17 42 | 1 32 | 19 33 | 2 3 | 19 10 | 4 3 | 15 25 | 4 21 | 23 13 | 0 9 | 22 10 | 1 11 | 17 51 | 0 38 | 21 50 | 0 40 | 16 50 | 6 30 | 14 26 | 14 8 | 19 36 | 11 36 | 6 21 |
| T 29 | 18 3 | 15 31 | 0 27 | 19 2 | 2 1 | 19 16 | 4 0 | 15 33 | 4 22 | 23 13 | 0 9 | 22 10 | 1 11 | 17 50 | 0 38 | 21 50 | 0 40 | 16 50 | 6 30 | 14 26 | 14 9 | 19 37 | 11 34 | 6 21 |
| W30 | 17 47 | 12 36 | 0s41 | 18 29 | 1 59 | 19 23 | 3 57 | 15 41 | 4 23 | 23 12 | 0 9 | 22 11 | 1 11 | 17 49 | 0 38 | 21 50 | 0 40 | 16 50 | 6 30 | 14 26 | 14 10 | 19 37 | 11 33 | 6 21 |
| T 31 | 17s30 | 9s 7 | 1s47 | 17s55 | 1s56 | 19s29 | 3n53 | 15n49 | 4n24 | 23s12 | 0n 9 | 22s11 | 1n11 | 17s48 | 0s38 | 21s49 | 0n40 | 16n50 | 6s30 | 14n26 | 14n11 | 19s37 | 11s32 | 6n21 |

Julian Day Number = 2328823.5, Delta T = 33.68 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'01, Lahiri = 19°10'02Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## FEBRUARY 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 43 35 | 11♒59'26 | 23♓34 | 17♒46 | 25♐21 | 29°R 6 | 6♑16 | 24♐35 | 12♒11 | 16♑16 | 23°R33 | 21♌17 | 21♌59 | 5♑12 | 10♒32 | F 1 |
| S 2 | 8 47 31 | 13° 0'15 | 6♈21 | 19°34 | 26°19 | 28♌45 | 6°29 | 24°41 | 12°15 | 16°18 | 23♊33 | 21°18 | 21°56 | 5°18 | 10°36 | S 2 |
| S 3 | 8 51 28 | 14° 1'03 | 19°24 | 21°22 | 27°18 | 28°24 | 6°41 | 24°46 | 12°18 | 16°20 | 23°32 | 21°19 | 21°53 | 5°25 | 10°41 | S 3 |
| M 4 | 8 55 24 | 15° 1'49 | 2♉44 | 23°11 | 28°17 | 28° 2 | 6°54 | 24°52 | 12°22 | 16°22 | 23°31 | 21°19 | 21°50 | 5°32 | 10°46 | M 4 |
| T 5 | 8 59 21 | 16° 2'33 | 16°23 | 24°59 | 29°17 | 27°40 | 7° 6 | 24°57 | 12°25 | 16°24 | 23°30 | 21°R19 | 21°47 | 5°39 | 10°50 | T 5 |
| W 6 | 9 3 17 | 17° 3'16 | 0♊21 | 26°48 | 0♑17 | 27°18 | 7°18 | 25° 2 | 12°29 | 16°26 | 23°30 | 21°19 | 21°43 | 5°45 | 10°55 | W 6 |
| T 7 | 9 7 14 | 18° 3'57 | 14°38 | 28°36 | 1°18 | 26°55 | 7°30 | 25° 7 | 12°32 | 16°28 | 23°29 | 21°19 | 21°40 | 5°52 | 11° 0 | T 7 |
| F 8 | 9 11 11 | 19° 4'37 | 29°12 | 0♓24 | 2°19 | 26°32 | 7°42 | 25°12 | 12°36 | 16°30 | 23°29 | 21°19 | 21°37 | 5°59 | 11° 4 | F 8 |
| S 9 | 9 15 7 | 20° 5'15 | 13♋58 | 2°11 | 3°20 | 26° 8 | 7°54 | 25°17 | 12°39 | 16°32 | 23°28 | 21°19 | 21°34 | 6° 5 | 11° 9 | S 9 |
| S 10 | 9 19 4 | 21° 5'51 | 28°50 | 3°58 | 4°21 | 25°45 | 8° 6 | 25°22 | 12°43 | 16°34 | 23°27 | 21°D18 | 21°31 | 6°12 | 11°13 | S 10 |
| M11 | 9 23 0 | 22° 6'25 | 13♌41 | 5°43 | 5°23 | 25°21 | 8°18 | 25°27 | 12°46 | 16°36 | 23°27 | 21°R18 | 21°28 | 6°19 | 11°18 | M11 |
| T 12 | 9 26 57 | 23° 6'58 | 28°22 | 7°26 | 6°26 | 24°57 | 8°30 | 25°32 | 12°50 | 16°38 | 23°26 | 21°18 | 21°24 | 6°25 | 11°23 | T 12 |
| W13 | 9 30 53 | 24° 7'30 | 12♍48 | 9° 7 | 7°28 | 24°33 | 8°41 | 25°37 | 12°53 | 16°40 | 23°26 | 21°18 | 21°21 | 6°32 | 11°27 | W13 |
| T 14 | 9 34 50 | 25° 7'59 | 26°52 | 10°46 | 8°31 | 24°10 | 8°53 | 25°42 | 12°57 | 16°42 | 23°25 | 21°18 | 21°18 | 6°39 | 11°32 | T 14 |
| F 15 | 9 38 46 | 26° 8'28 | 10♎32 | 12°21 | 9°34 | 23°46 | 9° 4 | 25°46 | 13° 0 | 16°44 | 23°25 | 21°17 | 21°15 | 6°45 | 11°36 | F 15 |
| S 16 | 9 42 43 | 27° 8'55 | 23°47 | 13°53 | 10°38 | 23°22 | 9°16 | 25°51 | 13° 3 | 16°46 | 23°24 | 21°17 | 21°12 | 6°52 | 11°41 | S 16 |
| S 17 | 9 46 40 | 28° 9'21 | 6♏38 | 15°21 | 11°42 | 22°58 | 9°27 | 25°55 | 13° 7 | 16°47 | 23°24 | 21°16 | 21° 9 | 6°59 | 11°45 | S 17 |
| M18 | 9 50 36 | 29° 9'45 | 19° 8 | 16°44 | 12°46 | 22°35 | 9°38 | 26° 0 | 13°10 | 16°49 | 23°23 | 21°16 | 21° 5 | 7° 5 | 11°50 | M18 |
| T 19 | 9 54 33 | 0♓10'08 | 1♐21 | 18° 1 | 13°50 | 22°11 | 9°50 | 26° 4 | 13°14 | 16°51 | 23°23 | 21°D15 | 21° 2 | 7°12 | 11°54 | T 19 |
| W20 | 9 58 29 | 1°10'29 | 13°21 | 19°12 | 14°55 | 21°48 | 10° 1 | 26° 8 | 13°17 | 16°53 | 23°23 | 21°16 | 20°59 | 7°19 | 11°59 | W20 |
| T 21 | 10 2 26 | 2°10'49 | 25°13 | 20°16 | 16° 0 | 21°25 | 10°12 | 26°12 | 13°20 | 16°54 | 23°22 | 21°17 | 20°56 | 7°25 | 12° 3 | T 21 |
| F 22 | 10 6 22 | 3°11'08 | 7♑ 2 | 21°13 | 17° 5 | 21° 3 | 10°23 | 26°16 | 13°24 | 16°56 | 23°22 | 21°18 | 20°53 | 7°32 | 12° 7 | F 22 |
| S 23 | 10 10 19 | 4°11'25 | 18°53 | 22° 1 | 18°10 | 20°41 | 10°33 | 26°20 | 13°27 | 16°58 | 23°22 | 21°19 | 20°49 | 7°39 | 12°12 | S 23 |
| S 24 | 10 14 15 | 5°11'41 | 0♒48 | 22°42 | 19°15 | 20°19 | 10°44 | 26°24 | 13°30 | 17° 0 | 23°21 | 21°20 | 20°46 | 7°46 | 12°16 | S 24 |
| M25 | 10 18 12 | 6°11'54 | 12°52 | 23°13 | 20°21 | 19°58 | 10°55 | 26°28 | 13°34 | 17° 1 | 23°21 | 21°21 | 20°43 | 7°52 | 12°21 | M25 |
| T 26 | 10 22 9 | 7°12'06 | 25° 6 | 23°35 | 21°27 | 19°37 | 11° 5 | 26°32 | 13°37 | 17° 3 | 23°21 | 21°R21 | 20°40 | 7°59 | 12°25 | T 26 |
| W27 | 10 26 5 | 8°12'17 | 7♓34 | 23°48 | 22°33 | 19°17 | 11°16 | 26°36 | 13°40 | 17° 4 | 23°21 | 21°20 | 20°37 | 8° 6 | 12°29 | W27 |
| T 28 | 10 30 2 | 9°12'25 | 20°15 | 23°R52 | 23°39 | 18°57 | 11°26 | 26°39 | 13°43 | 17° 6 | 23°21 | 21°19 | 20°34 | 8°12 | 12°33 | T 28 |
| F 29 | 10 33 58 | 10♓12'32 | 3♈10 | 23♓46 | 24♑46 | 18♌38 | 11♑36 | 26♐43 | 13♒47 | 17♑ 8 | 23♊20 | 21♌16 | 20♌30 | 8♑19 | 12♒38 | F 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s14 | 5s10 | 2s50 | 17s19 | 1s53 | 19s35 | 3n49 | 15n57 | 4n26 | 23s11 | 0n 8 | 22s11 | 1n11 | 17s47 | 0s38 | 21s49 | 0n40 | 16n50 | 6s29 | 14n26 | 14n12 | 19s38 | 11s31 | 6n21 |
| S 2 | 16 56 | 0 55 | 3 45 | 16 42 | 1 49 | 19 40 | 3 46 | 16 5 | 4 27 | 23 11 | 0 8 | 22 11 | 1 11 | 17 46 | 0 38 | 21 49 | 0 40 | 16 51 | 6 29 | 14 26 | 14 13 | 19 38 | 11 30 | 6 21 |
| S 3 | 16 39 | 3n26 | 4 30 | 16 3 | 1 45 | 19 45 | 3 42 | 16 14 | 4 27 | 23 10 | 0 8 | 22 11 | 1 11 | 17 45 | 0 38 | 21 49 | 0 40 | 16 51 | 6 29 | 14 25 | 14 14 | 19 38 | 11 28 | 6 21 |
| M 4 | 16 21 | 7 43 | 5 1 | 15 23 | 1 40 | 19 50 | 3 38 | 16 22 | 4 28 | 23 10 | 0 8 | 22 12 | 1 11 | 17 44 | 0 38 | 21 48 | 0 40 | 16 51 | 6 29 | 14 25 | 14 15 | 19 39 | 11 27 | 6 21 |
| T 5 | 16 3 | 11 42 | 5 16 | 14 42 | 1 34 | 19 55 | 3 34 | 16 30 | 4 29 | 23 9 | 0 8 | 22 12 | 1 11 | 17 43 | 0 38 | 21 48 | 0 40 | 16 51 | 6 29 | 14 25 | 14 16 | 19 39 | 11 26 | 6 21 |
| W 6 | 15 45 | 15 9 | 5 14 | 13 59 | 1 28 | 19 59 | 3 30 | 16 39 | 4 30 | 23 9 | 0 8 | 22 12 | 1 11 | 17 42 | 0 38 | 21 48 | 0 40 | 16 51 | 6 29 | 14 25 | 14 17 | 19 39 | 11 25 | 6 21 |
| T 7 | 15 27 | 17 46 | 4 52 | 13 15 | 1 21 | 20 3 | 3 26 | 16 47 | 4 30 | 23 8 | 0 8 | 22 12 | 1 11 | 17 41 | 0 38 | 21 48 | 0 40 | 16 51 | 6 28 | 14 25 | 14 18 | 19 40 | 11 24 | 6 21 |
| F 8 | 15 8 | 19 18 | 4 11 | 12 30 | 1 14 | 20 6 | 3 22 | 16 56 | 4 31 | 23 8 | 0 8 | 22 12 | 1 11 | 17 40 | 0 38 | 21 47 | 0 40 | 16 51 | 6 28 | 14 25 | 14 19 | 19 40 | 11 22 | 6 21 |
| S 9 | 14 49 | 19 33 | 3 13 | 11 44 | 1 5 | 20 9 | 3 17 | 17 4 | 4 31 | 23 7 | 0 8 | 22 12 | 1 11 | 17 39 | 0 38 | 21 47 | 0 40 | 16 52 | 6 28 | 14 25 | 14 20 | 19 40 | 11 21 | 6 21 |
| S 10 | 14 29 | 18 27 | 2 2 | 10 57 | 0 56 | 20 12 | 3 13 | 17 12 | 4 31 | 23 6 | 0 8 | 22 13 | 1 11 | 17 38 | 0 38 | 21 47 | 0 40 | 16 52 | 6 28 | 14 25 | 14 21 | 19 41 | 11 20 | 6 21 |
| M11 | 14 10 | 16 4 | 0 42 | 10 9 | 0 47 | 20 14 | 3 9 | 17 21 | 4 31 | 23 6 | 0 8 | 22 13 | 1 11 | 17 37 | 0 38 | 21 47 | 0 40 | 16 52 | 6 28 | 14 25 | 14 22 | 19 41 | 11 18 | 6 21 |
| T 12 | 13 50 | 12 40 | 0n39 | 9 21 | 0 36 | 20 15 | 3 4 | 17 29 | 4 31 | 23 5 | 0 8 | 22 13 | 1 11 | 17 36 | 0 38 | 21 47 | 0 40 | 16 52 | 6 28 | 14 25 | 14 23 | 19 41 | 11 17 | 6 21 |
| W13 | 13 30 | 8 34 | 1 57 | 8 33 | 0 25 | 20 17 | 3 0 | 17 37 | 4 31 | 23 4 | 0 7 | 22 13 | 1 12 | 17 35 | 0 38 | 21 46 | 0 40 | 16 52 | 6 27 | 14 25 | 14 25 | 19 42 | 11 16 | 6 21 |
| T 14 | 13 10 | 4 5 | 3 5 | 7 45 | 0 13 | 20 17 | 2 55 | 17 45 | 4 31 | 23 4 | 0 7 | 22 13 | 1 12 | 17 34 | 0 38 | 21 46 | 0 40 | 16 52 | 6 27 | 14 26 | 14 26 | 19 42 | 11 15 | 6 21 |
| F 15 | 12 50 | 0s29 | 4 1 | 6 57 | 0 1 | 20 18 | 2 51 | 17 52 | 4 30 | 23 3 | 0 7 | 22 13 | 1 12 | 17 33 | 0 38 | 21 46 | 0 40 | 16 52 | 6 27 | 14 26 | 14 27 | 19 42 | 11 13 | 6 21 |
| S 16 | 12 29 | 4 53 | 4 42 | 6 10 | 0n12 | 20 18 | 2 46 | 18 0 | 4 30 | 23 2 | 0 7 | 22 13 | 1 12 | 17 32 | 0 38 | 21 46 | 0 40 | 16 53 | 6 27 | 14 26 | 14 28 | 19 42 | 11 12 | 6 21 |
| S 17 | 12 8 | 8 55 | 5 7 | 5 23 | 0 26 | 20 17 | 2 42 | 18 7 | 4 29 | 23 2 | 0 7 | 22 13 | 1 12 | 17 31 | 0 38 | 21 45 | 0 40 | 16 53 | 6 27 | 14 26 | 14 29 | 19 43 | 11 11 | 6 21 |
| M18 | 11 47 | 12 27 | 5 17 | 4 38 | 0 40 | 20 16 | 2 37 | 18 14 | 4 29 | 23 1 | 0 7 | 22 14 | 1 12 | 17 30 | 0 38 | 21 45 | 0 40 | 16 53 | 6 26 | 14 26 | 14 30 | 19 43 | 11 9 | 6 21 |
| T 19 | 11 26 | 15 22 | 5 13 | 3 55 | 0 54 | 20 14 | 2 32 | 18 21 | 4 28 | 23 0 | 0 7 | 22 14 | 1 12 | 17 29 | 0 38 | 21 45 | 0 40 | 16 53 | 6 26 | 14 26 | 14 31 | 19 43 | 11 8 | 6 22 |
| W20 | 11 5 | 17 34 | 4 54 | 3 14 | 1 9 | 20 12 | 2 27 | 18 28 | 4 27 | 22 59 | 0 7 | 22 14 | 1 12 | 17 28 | 0 38 | 21 45 | 0 40 | 16 53 | 6 26 | 14 26 | 14 32 | 19 44 | 11 7 | 6 22 |
| T 21 | 10 43 | 19 0 | 4 24 | 2 35 | 1 24 | 20 10 | 2 23 | 18 35 | 4 26 | 22 59 | 0 7 | 22 14 | 1 12 | 17 27 | 0 38 | 21 44 | 0 40 | 16 53 | 6 26 | 14 26 | 14 33 | 19 44 | 11 6 | 6 22 |
| F 22 | 10 21 | 19 36 | 3 42 | 1 59 | 1 38 | 20 6 | 2 18 | 18 41 | 4 25 | 22 58 | 0 7 | 22 14 | 1 12 | 17 27 | 0 38 | 21 44 | 0 40 | 16 54 | 6 26 | 14 26 | 14 34 | 19 44 | 11 4 | 6 22 |
| S 23 | 9 59 | 19 20 | 2 50 | 1 26 | 1 53 | 20 3 | 2 13 | 18 47 | 4 24 | 22 57 | 0 7 | 22 14 | 1 12 | 17 26 | 0 38 | 21 44 | 0 40 | 16 54 | 6 26 | 14 25 | 14 35 | 19 44 | 11 3 | 6 22 |
| S 24 | 9 37 | 18 12 | 1 51 | 0 57 | 2 8 | 19 59 | 2 8 | 18 53 | 4 23 | 22 56 | 0 6 | 22 14 | 1 12 | 17 25 | 0 38 | 21 44 | 0 40 | 16 54 | 6 25 | 14 25 | 14 36 | 19 45 | 11 2 | 6 22 |
| M25 | 9 15 | 16 14 | 0 47 | 0 32 | 2 22 | 19 54 | 2 4 | 18 59 | 4 21 | 22 56 | 0 6 | 22 14 | 1 12 | 17 24 | 0 38 | 21 44 | 0 40 | 16 54 | 6 25 | 14 25 | 14 37 | 19 45 | 11 0 | 6 22 |
| T 26 | 8 53 | 13 30 | 0s21 | 0 10 | 2 35 | 19 49 | 1 59 | 19 4 | 4 20 | 22 55 | 0 6 | 22 14 | 1 12 | 17 23 | 0 38 | 21 43 | 0 40 | 16 54 | 6 25 | 14 25 | 14 38 | 19 45 | 10 59 | 6 22 |
| W27 | 8 30 | 10 7 | 1 29 | 0n 7 | 2 48 | 19 43 | 1 54 | 19 9 | 4 18 | 22 54 | 0 6 | 22 14 | 1 12 | 17 22 | 0 38 | 21 43 | 0 40 | 16 55 | 6 25 | 14 25 | 14 39 | 19 45 | 10 58 | 6 23 |
| T 28 | 8 8 | 6 13 | 2 33 | 0 19 | 3 0 | 19 37 | 1 49 | 19 14 | 4 17 | 22 53 | 0 6 | 22 14 | 1 12 | 17 21 | 0 38 | 21 43 | 0 40 | 16 55 | 6 25 | 14 25 | 14 40 | 19 46 | 10 56 | 6 23 |
| F 29 | 7s45 | 1s58 | 3s31 | 0n26 | 3n10 | 19s30 | 1n44 | 19n18 | 4n15 | 22s52 | 0n 6 | 22s14 | 1n12 | 17s20 | 0s38 | 21s43 | 0n40 | 16n55 | 6s24 | 14n26 | 14n41 | 19s46 | 10s55 | 6n23 |

Julian Day Number = 2328854.5, Delta T = 33.62 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'05, Lahiri = 19°10'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## MARCH 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 37 55 | 11♓12'36 | 16♈19 | 23°R31 | 25♑53 | 18°R19 | 11♑46 | 26♐46 | 13♒50 | 17♑ 9 | 23°R20 | 21°R13 | 20♌27 | 8♑26 | 12♒42 | S 1 |
| S 2 | 10 41 51 | 12°12'38 | 29°41 | 23♓ 8 | 26°59 | 18♌ 1 | 11°56 | 26°49 | 13°53 | 17°11 | 23♊20 | 21♌10 | 20°24 | 8°32 | 12°46 | S 2 |
| M 3 | 10 45 48 | 13°12'39 | 13♉16 | 22°37 | 28° 6 | 17°44 | 12° 6 | 26°53 | 13°56 | 17°12 | 23°20 | 21° 7 | 20°21 | 8°39 | 12°50 | M 3 |
| T 4 | 10 49 44 | 14°12'37 | 27° 3 | 21°58 | 29°13 | 17°28 | 12°16 | 26°56 | 13°59 | 17°14 | 23°20 | 21° 5 | 20°18 | 8°46 | 12°54 | T 4 |
| W 5 | 10 53 41 | 15°12'33 | 11♊ 0 | 21°14 | 0♒21 | 17°12 | 12°26 | 26°59 | 14° 2 | 17°15 | 23°20 | 21°D 5 | 20°14 | 8°52 | 12°59 | W 5 |
| T 6 | 10 57 38 | 16°12'27 | 25° 7 | 20°24 | 1°28 | 16°57 | 12°35 | 27° 2 | 14° 6 | 17°16 | 23°20 | 21° 5 | 20°11 | 8°59 | 13° 3 | T 6 |
| F 7 | 11 1 34 | 17°12'18 | 9♋22 | 19°31 | 2°36 | 16°42 | 12°45 | 27° 5 | 14° 9 | 17°18 | 23°D20 | 21° 6 | 20° 8 | 9° 6 | 13° 7 | F 7 |
| S 8 | 11 5 31 | 18°12'07 | 23°43 | 18°34 | 3°43 | 16°29 | 12°54 | 27° 8 | 14°12 | 17°19 | 23°20 | 21° 7 | 20° 5 | 9°12 | 13°11 | S 8 |
| S 9 | 11 9 27 | 19°11'54 | 8♌ 7 | 17°37 | 4°51 | 16°16 | 13° 3 | 27°10 | 14°15 | 17°20 | 23°20 | 21° 9 | 20° 2 | 9°19 | 13°15 | S 9 |
| M10 | 11 13 24 | 20°11'39 | 22°30 | 16°39 | 5°59 | 16° 4 | 13°12 | 27°13 | 14°18 | 17°22 | 23°20 | 21°R 9 | 19°59 | 9°26 | 13°19 | M10 |
| T 11 | 11 17 20 | 21°11'22 | 6♍48 | 15°43 | 7° 7 | 15°52 | 13°21 | 27°16 | 14°21 | 17°23 | 23°20 | 21° 8 | 19°55 | 9°32 | 13°23 | T 11 |
| W12 | 11 21 17 | 22°11'02 | 20°55 | 14°49 | 8°15 | 15°42 | 13°30 | 27°18 | 14°24 | 17°24 | 23°20 | 21° 6 | 19°52 | 9°39 | 13°26 | W12 |
| T 13 | 11 25 13 | 23°10'40 | 4♎47 | 13°58 | 9°24 | 15°32 | 13°39 | 27°20 | 14°26 | 17°25 | 23°20 | 21° 2 | 19°49 | 9°46 | 13°30 | T 13 |
| F 14 | 11 29 10 | 24°10'17 | 18°21 | 13°12 | 10°32 | 15°23 | 13°47 | 27°23 | 14°29 | 17°27 | 23°20 | 20°57 | 19°46 | 9°52 | 13°34 | F 14 |
| S 15 | 11 33 6 | 25° 9'51 | 1♏34 | 12°30 | 11°41 | 15°15 | 13°56 | 27°25 | 14°32 | 17°28 | 23°21 | 20°51 | 19°43 | 9°59 | 13°38 | S 15 |
| S 16 | 11 37 3 | 26° 9'24 | 14°26 | 11°53 | 12°49 | 15° 7 | 14° 4 | 27°27 | 14°35 | 17°29 | 23°21 | 20°45 | 19°40 | 10° 6 | 13°41 | S 16 |
| M17 | 11 41 0 | 27° 8'54 | 26°59 | 11°22 | 13°58 | 15° 1 | 14°12 | 27°29 | 14°38 | 17°30 | 23°21 | 20°41 | 19°36 | 10°12 | 13°45 | M17 |
| T 18 | 11 44 56 | 28° 8'24 | 9♐15 | 10°57 | 15° 7 | 14°55 | 14°20 | 27°31 | 14°41 | 17°31 | 23°21 | 20°37 | 19°33 | 10°19 | 13°49 | T 18 |
| W19 | 11 48 53 | 29° 7'51 | 21°17 | 10°38 | 16°16 | 14°50 | 14°28 | 27°33 | 14°43 | 17°32 | 23°22 | 20°35 | 19°30 | 10°26 | 13°52 | W19 |
| T 20 | 11 52 49 | 0♈ 7'16 | 3♑10 | 10°25 | 17°25 | 14°45 | 14°36 | 27°34 | 14°46 | 17°33 | 23°22 | 20°D35 | 19°27 | 10°32 | 13°56 | T 20 |
| F 21 | 11 56 46 | 1° 6'40 | 15° 0 | 10°18 | 18°34 | 14°42 | 14°44 | 27°36 | 14°49 | 17°34 | 23°22 | 20°36 | 19°24 | 10°39 | 13°59 | F 21 |
| S 22 | 12 0 42 | 2° 6'02 | 26°51 | 10°D17 | 19°44 | 14°39 | 14°51 | 27°37 | 14°51 | 17°35 | 23°22 | 20°37 | 19°20 | 10°46 | 14° 3 | S 22 |
| S 23 | 12 4 39 | 3° 5'22 | 8♒49 | 10°22 | 20°53 | 14°37 | 14°59 | 27°39 | 14°54 | 17°36 | 23°23 | 20°39 | 19°17 | 10°52 | 14° 6 | S 23 |
| M24 | 12 8 35 | 4° 4'40 | 20°57 | 10°32 | 22° 3 | 14°36 | 15° 6 | 27°40 | 14°57 | 17°37 | 23°23 | 20°R39 | 19°14 | 10°59 | 14°10 | M24 |
| T 25 | 12 12 32 | 5° 3'56 | 3♓20 | 10°47 | 23°12 | 14°D35 | 15°13 | 27°41 | 14°59 | 17°37 | 23°24 | 20°39 | 19°11 | 11° 6 | 14°13 | T 25 |
| W26 | 12 16 29 | 6° 3'11 | 16° 1 | 11° 7 | 24°22 | 14°35 | 15°20 | 27°42 | 15° 2 | 17°38 | 23°24 | 20°36 | 19° 8 | 11°13 | 14°16 | W26 |
| T 27 | 12 20 25 | 7° 2'23 | 29° 0 | 11°32 | 25°32 | 14°36 | 15°27 | 27°43 | 15° 4 | 17°39 | 23°24 | 20°31 | 19° 5 | 11°19 | 14°20 | T 27 |
| F 28 | 12 24 22 | 8° 1'33 | 12♈18 | 12° 2 | 26°41 | 14°38 | 15°33 | 27°44 | 15° 6 | 17°40 | 23°25 | 20°24 | 19° 1 | 11°26 | 14°23 | F 28 |
| S 29 | 12 28 18 | 9° 0'42 | 25°53 | 12°36 | 27°51 | 14°40 | 15°40 | 27°45 | 15° 9 | 17°40 | 23°25 | 20°16 | 18°58 | 11°33 | 14°26 | S 29 |
| S 30 | 12 32 15 | 9°59'48 | 9♉42 | 13°14 | 29° 1 | 14°43 | 15°46 | 27°46 | 15°11 | 17°41 | 23°26 | 20° 7 | 18°55 | 11°39 | 14°29 | S 30 |
| M31 | 12 36 11 | 10♈58'52 | 23♉41 | 13♓55 | 0♓11 | 14♌47 | 15♑52 | 27♐46 | 15♒14 | 17♑42 | 23♊26 | 20♌ 0 | 18♌52 | 11♑46 | 14♒32 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s22 | 2n27 | 4s19 | 0n29 | 3n20 | 19s23 | 1n40 | 19n22 | 4n13 | 22s52 | 0n 6 | 22s14 | 1n12 | 17s19 | 0s38 | 21s43 | 0n40 | 16n55 | 6s24 | 14n27 | 14n42 | 19s46 | 10s54 | 6n23 |
| S 2 | 7 0 | 6 48 | 4 53 | 0 27 | 3 27 | 19 15 | 1 35 | 19 26 | 4 12 | 22 51 | 0 6 | 22 14 | 1 12 | 17 18 | 0 39 | 21 42 | 0 41 | 16 55 | 6 24 | 14 28 | 14 43 | 19 46 | 10 52 | 6 23 |
| M 3 | 6 37 | 10 53 | 5 12 | 0 20 | 3 33 | 19 6 | 1 30 | 19 30 | 4 10 | 22 50 | 0 6 | 22 14 | 1 12 | 17 17 | 0 39 | 21 42 | 0 41 | 16 55 | 6 24 | 14 29 | 14 44 | 19 47 | 10 51 | 6 23 |
| T 4 | 6 13 | 14 27 | 5 13 | 0 8 | 3 37 | 18 58 | 1 25 | 19 33 | 4 8 | 22 49 | 0 6 | 22 14 | 1 12 | 17 16 | 0 39 | 21 42 | 0 41 | 16 56 | 6 24 | 14 30 | 14 45 | 19 47 | 10 50 | 6 24 |
| W 5 | 5 50 | 17 15 | 4 56 | 0s 7 | 3 40 | 18 48 | 1 20 | 19 36 | 4 6 | 22 48 | 0 6 | 22 14 | 1 12 | 17 16 | 0 39 | 21 42 | 0 41 | 16 56 | 6 23 | 14 30 | 14 46 | 19 47 | 10 49 | 6 24 |
| T 6 | 5 27 | 19 3 | 4 21 | 0 26 | 3 40 | 18 38 | 1 16 | 19 39 | 4 4 | 22 48 | 0 5 | 22 14 | 1 12 | 17 15 | 0 39 | 21 42 | 0 41 | 16 56 | 6 23 | 14 30 | 14 47 | 19 47 | 10 47 | 6 24 |
| F 7 | 5 4 | 19 40 | 3 30 | 0 49 | 3 38 | 18 28 | 1 11 | 19 41 | 4 2 | 22 47 | 0 5 | 22 14 | 1 12 | 17 14 | 0 39 | 21 41 | 0 41 | 16 56 | 6 23 | 14 29 | 14 48 | 19 48 | 10 46 | 6 24 |
| S 8 | 4 40 | 19 1 | 2 25 | 1 15 | 3 34 | 18 17 | 1 6 | 19 44 | 3 59 | 22 46 | 0 5 | 22 14 | 1 13 | 17 13 | 0 39 | 21 41 | 0 41 | 16 56 | 6 23 | 14 29 | 14 49 | 19 48 | 10 45 | 6 24 |
| S 9 | 4 17 | 17 8 | 1 11 | 1 42 | 3 28 | 18 5 | 1 2 | 19 46 | 3 57 | 22 45 | 0 5 | 22 14 | 1 13 | 17 12 | 0 39 | 21 41 | 0 41 | 16 57 | 6 23 | 14 29 | 14 50 | 19 48 | 10 43 | 6 25 |
| M10 | 3 53 | 14 9 | 0n 7 | 2 12 | 3 21 | 17 53 | 0 57 | 19 47 | 3 55 | 22 44 | 0 5 | 22 14 | 1 13 | 17 11 | 0 39 | 21 41 | 0 41 | 16 57 | 6 22 | 14 28 | 14 51 | 19 48 | 10 42 | 6 25 |
| T 11 | 3 30 | 10 21 | 1 25 | 2 42 | 3 11 | 17 41 | 0 52 | 19 48 | 3 53 | 22 44 | 0 5 | 22 14 | 1 13 | 17 10 | 0 39 | 21 41 | 0 41 | 16 57 | 6 22 | 14 29 | 14 52 | 19 48 | 10 41 | 6 25 |
| W12 | 3 6 | 6 0 | 2 36 | 3 13 | 3 1 | 17 28 | 0 48 | 19 49 | 3 51 | 22 43 | 0 5 | 22 14 | 1 13 | 17 10 | 0 39 | 21 41 | 0 41 | 16 57 | 6 22 | 14 29 | 14 53 | 19 49 | 10 39 | 6 25 |
| T 13 | 2 43 | 1 24 | 3 36 | 3 43 | 2 49 | 17 14 | 0 43 | 19 50 | 3 48 | 22 42 | 0 5 | 22 14 | 1 13 | 17 9 | 0 39 | 21 40 | 0 41 | 16 57 | 6 22 | 14 31 | 14 54 | 19 49 | 10 38 | 6 25 |
| F 14 | 2 19 | 3s 9 | 4 23 | 4 13 | 2 36 | 17 0 | 0 39 | 19 51 | 3 46 | 22 41 | 0 5 | 22 14 | 1 13 | 17 8 | 0 39 | 21 40 | 0 41 | 16 58 | 6 22 | 14 32 | 14 55 | 19 49 | 10 37 | 6 26 |
| S 15 | 1 55 | 7 26 | 4 54 | 4 42 | 2 22 | 16 46 | 0 34 | 19 51 | 3 44 | 22 40 | 0 5 | 22 14 | 1 13 | 17 7 | 0 39 | 21 40 | 0 41 | 16 58 | 6 21 | 14 34 | 14 56 | 19 49 | 10 36 | 6 26 |
| S 16 | 1 32 | 11 16 | 5 10 | 5 9 | 2 7 | 16 31 | 0 30 | 19 51 | 3 41 | 22 40 | 0 5 | 22 14 | 1 13 | 17 6 | 0 39 | 21 40 | 0 41 | 16 58 | 6 21 | 14 36 | 14 57 | 19 49 | 10 34 | 6 26 |
| M17 | 1 8 | 14 30 | 5 10 | 5 35 | 1 52 | 16 15 | 0 26 | 19 51 | 3 39 | 22 39 | 0 4 | 22 14 | 1 13 | 17 6 | 0 39 | 21 40 | 0 41 | 16 58 | 6 21 | 14 38 | 14 58 | 19 50 | 10 33 | 6 26 |
| T 18 | 0 44 | 17 0 | 4 55 | 5 58 | 1 37 | 15 59 | 0 21 | 19 50 | 3 36 | 22 38 | 0 4 | 22 14 | 1 13 | 17 5 | 0 39 | 21 40 | 0 41 | 16 58 | 6 21 | 14 39 | 14 59 | 19 50 | 10 32 | 6 27 |
| W19 | 0 21 | 18 44 | 4 28 | 6 20 | 1 22 | 15 43 | 0 17 | 19 49 | 3 34 | 22 37 | 0 4 | 22 14 | 1 13 | 17 4 | 0 39 | 21 39 | 0 41 | 16 59 | 6 21 | 14 39 | 15 0 | 19 50 | 10 31 | 6 27 |
| T 20 | 0n 3 | 19 37 | 3 50 | 6 39 | 1 7 | 15 26 | 0 13 | 19 48 | 3 32 | 22 37 | 0 4 | 22 14 | 1 13 | 17 3 | 0 39 | 21 39 | 0 41 | 16 59 | 6 20 | 14 39 | 15 1 | 19 50 | 10 29 | 6 27 |
| F 21 | 0 27 | 19 38 | 3 2 | 6 55 | 0 51 | 15 9 | 0 9 | 19 47 | 3 29 | 22 36 | 0 4 | 22 14 | 1 13 | 17 2 | 0 39 | 21 39 | 0 41 | 16 59 | 6 20 | 14 39 | 15 2 | 19 50 | 10 28 | 6 28 |
| S 22 | 0 50 | 18 46 | 2 6 | 7 10 | 0 37 | 14 51 | 0 5 | 19 46 | 3 27 | 22 35 | 0 4 | 22 14 | 1 13 | 17 2 | 0 39 | 21 39 | 0 41 | 16 59 | 6 20 | 14 39 | 15 3 | 19 50 | 10 27 | 6 28 |
| S 23 | 1 14 | 17 4 | 1 4 | 7 21 | 0 22 | 14 33 | 0 1 | 19 44 | 3 24 | 22 34 | 0 4 | 22 14 | 1 13 | 17 1 | 0 39 | 21 39 | 0 41 | 16 59 | 6 20 | 14 38 | 15 4 | 19 51 | 10 26 | 6 28 |
| M24 | 1 37 | 14 34 | 0s 2 | 7 30 | 0 8 | 14 14 | 0s 3 | 19 42 | 3 22 | 22 34 | 0 4 | 22 14 | 1 13 | 17 0 | 0 39 | 21 39 | 0 41 | 17 0 | 6 20 | 14 38 | 15 5 | 19 51 | 10 24 | 6 28 |
| T 25 | 2 1 | 11 22 | 1 8 | 7 37 | 0s 6 | 13 55 | 0 7 | 19 40 | 3 20 | 22 33 | 0 4 | 22 14 | 1 13 | 16 59 | 0 39 | 21 39 | 0 41 | 17 0 | 6 20 | 14 38 | 15 6 | 19 51 | 10 23 | 6 29 |
| W26 | 2 24 | 7 34 | 2 13 | 7 42 | 0 19 | 13 36 | 0 11 | 19 38 | 3 17 | 22 32 | 0 4 | 22 14 | 1 13 | 16 59 | 0 39 | 21 39 | 0 41 | 17 0 | 6 19 | 14 39 | 15 7 | 19 51 | 10 22 | 6 29 |
| T 27 | 2 48 | 3 20 | 3 12 | 7 44 | 0 31 | 13 16 | 0 15 | 19 35 | 3 15 | 22 32 | 0 3 | 22 14 | 1 14 | 16 58 | 0 39 | 21 38 | 0 41 | 17 0 | 6 19 | 14 41 | 15 8 | 19 51 | 10 21 | 6 29 |
| F 28 | 3 11 | 1n 9 | 4 2 | 7 44 | 0 43 | 12 56 | 0 19 | 19 32 | 3 12 | 22 31 | 0 3 | 22 14 | 1 14 | 16 57 | 0 39 | 21 38 | 0 41 | 17 1 | 6 19 | 14 43 | 15 9 | 19 51 | 10 20 | 6 30 |
| S 29 | 3 35 | 5 40 | 4 40 | 7 41 | 0 55 | 12 36 | 0 23 | 19 29 | 3 10 | 22 30 | 0 3 | 22 14 | 1 14 | 16 57 | 0 39 | 21 38 | 0 41 | 17 1 | 6 19 | 14 45 | 15 10 | 19 51 | 10 18 | 6 30 |
| S 30 | 3 58 | 9 58 | 5 2 | 7 37 | 1 6 | 12 15 | 0 26 | 19 26 | 3 8 | 22 30 | 0 3 | 22 14 | 1 14 | 16 56 | 0 39 | 21 38 | 0 41 | 17 1 | 6 19 | 14 48 | 15 11 | 19 52 | 10 17 | 6 30 |
| M31 | 4n21 | 13n47 | 5s 6 | 7s30 | 1s16 | 11s53 | 0s30 | 19n23 | 3n 5 | 22s29 | 0n 3 | 22s14 | 1n14 | 16s55 | 0s39 | 21s38 | 0n41 | 17n 1 | 6s18 | 14n50 | 15n12 | 19s52 | 10s16 | 6n31 |

Julian Day Number = 2328883.5, Delta T = 33.57 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'09, Lahiri = 19°10'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## APRIL 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 40 8 | 11♈57'54 | 7♊48 | 14♓41 | 1♓21 | 14♌52 | 15♑58 | 27♐47 | 15♒16 | 17♑42 | 23♊27 | 19°R53 | 18♌49 | 11♑53 | 14♒35 | T 1 |
| W 2 | 12 44 4 | 12°56'53 | 21°57 | 15°29 | 2°31 | 14°57 | 16° 4 | 27°47 | 15°18 | 17°43 | 23°28 | 19♌49 | 18°46 | 11°59 | 14°38 | W 2 |
| T 3 | 12 48 1 | 13°55'50 | 6♋ 7 | 16°22 | 3°42 | 15° 3 | 16°10 | 27°48 | 15°20 | 17°43 | 23°28 | 19°47 | 18°42 | 12° 6 | 14°41 | T 3 |
| F 4 | 12 51 58 | 14°54'45 | 20°16 | 17°17 | 4°52 | 15° 9 | 16°15 | 27°48 | 15°22 | 17°44 | 23°29 | 19°D47 | 18°39 | 12°13 | 14°44 | F 4 |
| S 5 | 12 55 54 | 15°53'38 | 4♌22 | 18°15 | 6° 2 | 15°16 | 16°21 | 27°48 | 15°25 | 17°44 | 23°29 | 19°48 | 18°36 | 12°19 | 14°47 | S 5 |
| S 6 | 12 59 51 | 16°52'28 | 18°23 | 19°16 | 7°13 | 15°24 | 16°26 | 27°R48 | 15°27 | 17°45 | 23°30 | 19°R49 | 18°33 | 12°26 | 14°49 | S 6 |
| M 7 | 13 3 47 | 17°51'15 | 2♍20 | 20°19 | 8°23 | 15°32 | 16°31 | 27°48 | 15°29 | 17°45 | 23°31 | 19°48 | 18°30 | 12°33 | 14°52 | M 7 |
| T 8 | 13 7 44 | 18°50'01 | 16°10 | 21°26 | 9°33 | 15°41 | 16°36 | 27°48 | 15°31 | 17°46 | 23°31 | 19°45 | 18°26 | 12°39 | 14°55 | T 8 |
| W 9 | 13 11 40 | 19°48'44 | 29°52 | 22°34 | 10°44 | 15°51 | 16°41 | 27°47 | 15°33 | 17°46 | 23°32 | 19°40 | 18°23 | 12°46 | 14°57 | W 9 |
| T 10 | 13 15 37 | 20°47'25 | 13♎22 | 23°45 | 11°55 | 16° 1 | 16°45 | 27°47 | 15°35 | 17°46 | 23°33 | 19°32 | 18°20 | 12°53 | 15° 0 | T 10 |
| F 11 | 13 19 33 | 21°46'05 | 26°39 | 24°58 | 13° 5 | 16°11 | 16°50 | 27°47 | 15°36 | 17°47 | 23°34 | 19°22 | 18°17 | 12°59 | 15° 2 | F 11 |
| S 12 | 13 23 30 | 22°44'42 | 9♏40 | 26°14 | 14°16 | 16°23 | 16°54 | 27°46 | 15°38 | 17°47 | 23°34 | 19°11 | 18°14 | 13° 6 | 15° 5 | S 12 |
| S 13 | 13 27 26 | 23°43'17 | 22°25 | 27°32 | 15°27 | 16°34 | 16°58 | 27°45 | 15°40 | 17°47 | 23°35 | 19° 0 | 18°11 | 13°13 | 15° 7 | S 13 |
| M14 | 13 31 23 | 24°41'51 | 4♐53 | 28°51 | 16°37 | 16°47 | 17° 2 | 27°45 | 15°42 | 17°47 | 23°36 | 18°50 | 18° 7 | 13°19 | 15° 9 | M14 |
| T 15 | 13 35 20 | 25°40'23 | 17° 7 | 0♈13 | 17°48 | 16°59 | 17° 6 | 27°44 | 15°44 | 17°47 | 23°37 | 18°42 | 18° 4 | 13°26 | 15°12 | T 15 |
| W16 | 13 39 16 | 26°38'53 | 29° 8 | 1°37 | 18°59 | 17°13 | 17° 9 | 27°43 | 15°45 | 17°48 | 23°38 | 18°36 | 18° 1 | 13°33 | 15°14 | W16 |
| T 17 | 13 43 13 | 27°37'22 | 11♑ 1 | 3° 2 | 20°10 | 17°27 | 17°12 | 27°42 | 15°47 | 17°48 | 23°39 | 18°32 | 17°58 | 13°39 | 15°16 | T 17 |
| F 18 | 13 47 9 | 28°35'49 | 22°51 | 4°30 | 21°21 | 17°41 | 17°16 | 27°41 | 15°48 | 17°48 | 23°39 | 18°31 | 17°55 | 13°46 | 15°18 | F 18 |
| S 19 | 13 51 6 | 29°34'14 | 4♒41 | 5°59 | 22°32 | 17°56 | 17°19 | 27°39 | 15°50 | 17°R48 | 23°40 | 18°D31 | 17°51 | 13°53 | 15°20 | S 19 |
| S 20 | 13 55 2 | 0♉32'38 | 16°39 | 7°31 | 23°43 | 18°11 | 17°21 | 27°38 | 15°51 | 17°48 | 23°41 | 18°R31 | 17°48 | 13°59 | 15°22 | S 20 |
| M21 | 13 58 59 | 1°31'00 | 28°49 | 9° 4 | 24°54 | 18°27 | 17°24 | 27°37 | 15°53 | 17°48 | 23°42 | 18°30 | 17°45 | 14° 6 | 15°24 | M21 |
| T 22 | 14 2 55 | 2°29'20 | 11♓16 | 10°39 | 26° 6 | 18°43 | 17°26 | 27°35 | 15°54 | 17°48 | 23°43 | 18°28 | 17°42 | 14°13 | 15°26 | T 22 |
| W23 | 14 6 52 | 3°27'39 | 24° 4 | 12°16 | 27°17 | 18°59 | 17°29 | 27°34 | 15°56 | 17°47 | 23°44 | 18°24 | 17°39 | 14°19 | 15°27 | W23 |
| T 24 | 14 10 49 | 4°25'56 | 7♈16 | 13°54 | 28°28 | 19°17 | 17°31 | 27°32 | 15°57 | 17°47 | 23°45 | 18°17 | 17°36 | 14°26 | 15°29 | T 24 |
| F 25 | 14 14 45 | 5°24'12 | 20°51 | 15°35 | 29°39 | 19°34 | 17°33 | 27°30 | 15°58 | 17°47 | 23°46 | 18° 7 | 17°32 | 14°33 | 15°31 | F 25 |
| S 26 | 14 18 42 | 6°22'26 | 4♉48 | 17°17 | 0♈51 | 19°52 | 17°34 | 27°28 | 15°59 | 17°47 | 23°47 | 17°56 | 17°29 | 14°39 | 15°32 | S 26 |
| S 27 | 14 22 38 | 7°20'38 | 19° 3 | 19° 1 | 2° 2 | 20°10 | 17°36 | 27°26 | 16° 1 | 17°47 | 23°48 | 17°45 | 17°26 | 14°46 | 15°34 | S 27 |
| M28 | 14 26 35 | 8°18'48 | 3♊30 | 20°47 | 3°13 | 20°29 | 17°37 | 27°24 | 16° 2 | 17°46 | 23°49 | 17°34 | 17°23 | 14°53 | 15°35 | M28 |
| T 29 | 14 30 31 | 9°16'57 | 18° 2 | 22°35 | 4°25 | 20°48 | 17°38 | 27°22 | 16° 3 | 17°46 | 23°50 | 17°25 | 17°20 | 14°59 | 15°37 | T 29 |
| W30 | 14 34 28 | 10♉15'04 | 2♋33 | 24♈24 | 5♈36 | 21♌ 8 | 17♑39 | 27♐20 | 16♒ 4 | 17♑46 | 23♊51 | 17♌18 | 17♌17 | 15♑ 6 | 15♒38 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n44 | 16n50 | 4s52 | 7s22 | 1s26 | 11s32 | 0s33 | 19n19 | 3n 3 | 22s29 | 0n 3 | 22s14 | 1n14 | 16s55 | 0s39 | 21s38 | 0n41 | 17n 1 | 6s18 | 14n52 | 15n13 | 19s52 | 10s15 | 6n31 |
| W 2 | 5 7 | 18 54 | 4 20 | 7 11 | 1 35 | 11 10 | 0 37 | 19 15 | 3 1 | 22 28 | 0 3 | 22 14 | 1 14 | 16 54 | 0 39 | 21 38 | 0 41 | 17 2 | 6 18 | 14 54 | 15 14 | 19 52 | 10 14 | 6 31 |
| T 3 | 5 30 | 19 48 | 3 32 | 6 59 | 1 44 | 10 47 | 0 40 | 19 11 | 2 58 | 22 27 | 0 3 | 22 14 | 1 14 | 16 53 | 0 39 | 21 38 | 0 41 | 17 2 | 6 18 | 14 54 | 15 15 | 19 52 | 10 13 | 6 32 |
| F 4 | 5 53 | 19 27 | 2 32 | 6 45 | 1 52 | 10 25 | 0 43 | 19 7 | 2 56 | 22 27 | 0 3 | 22 14 | 1 14 | 16 53 | 0 39 | 21 38 | 0 41 | 17 2 | 6 18 | 14 54 | 15 16 | 19 52 | 10 11 | 6 32 |
| S 5 | 6 16 | 17 53 | 1 22 | 6 29 | 1 59 | 10 2 | 0 46 | 19 3 | 2 54 | 22 26 | 0 2 | 22 14 | 1 14 | 16 52 | 0 39 | 21 38 | 0 41 | 17 2 | 6 17 | 14 54 | 15 17 | 19 52 | 10 10 | 6 32 |
| S 6 | 6 39 | 15 13 | 0 8 | 6 11 | 2 6 | 9 39 | 0 50 | 18 58 | 2 51 | 22 26 | 0 2 | 22 14 | 1 14 | 16 52 | 0 39 | 21 38 | 0 41 | 17 2 | 6 17 | 14 54 | 15 18 | 19 52 | 10 9 | 6 33 |
| M 7 | 7 1 | 11 42 | 1n 7 | 5 52 | 2 12 | 9 15 | 0 53 | 18 54 | 2 49 | 22 25 | 0 2 | 22 14 | 1 14 | 16 51 | 0 39 | 21 37 | 0 41 | 17 3 | 6 17 | 14 54 | 15 19 | 19 53 | 10 8 | 6 33 |
| T 8 | 7 23 | 7 33 | 2 16 | 5 30 | 2 17 | 8 51 | 0 56 | 18 49 | 2 47 | 22 25 | 0 2 | 22 14 | 1 14 | 16 51 | 0 39 | 21 37 | 0 41 | 17 3 | 6 17 | 14 55 | 15 20 | 19 53 | 10 7 | 6 33 |
| W 9 | 7 46 | 3 4 | 3 17 | 5 8 | 2 22 | 8 27 | 0 58 | 18 44 | 2 45 | 22 24 | 0 2 | 22 14 | 1 14 | 16 50 | 0 40 | 21 37 | 0 41 | 17 3 | 6 17 | 14 57 | 15 21 | 19 53 | 10 6 | 6 34 |
| T 10 | 8 8 | 1s31 | 4 6 | 4 44 | 2 27 | 8 3 | 1 1 | 18 39 | 2 42 | 22 24 | 0 2 | 22 14 | 1 14 | 16 49 | 0 40 | 21 37 | 0 41 | 17 3 | 6 17 | 14 59 | 15 22 | 19 53 | 10 5 | 6 34 |
| F 11 | 8 30 | 5 56 | 4 40 | 4 18 | 2 31 | 7 38 | 1 4 | 18 34 | 2 40 | 22 23 | 0 2 | 22 13 | 1 14 | 16 49 | 0 40 | 21 37 | 0 41 | 17 3 | 6 16 | 15 2 | 15 23 | 19 53 | 10 4 | 6 34 |
| S 12 | 8 52 | 10 0 | 4 59 | 3 51 | 2 34 | 7 14 | 1 7 | 18 28 | 2 38 | 22 23 | 0 2 | 22 13 | 1 14 | 16 48 | 0 40 | 21 37 | 0 41 | 17 4 | 6 16 | 15 6 | 15 24 | 19 53 | 10 3 | 6 35 |
| S 13 | 9 13 | 13 31 | 5 3 | 3 23 | 2 37 | 6 49 | 1 9 | 18 22 | 2 36 | 22 23 | 0 2 | 22 13 | 1 14 | 16 48 | 0 40 | 21 37 | 0 41 | 17 4 | 6 16 | 15 9 | 15 25 | 19 53 | 10 2 | 6 35 |
| M14 | 9 35 | 16 22 | 4 52 | 2 53 | 2 39 | 6 23 | 1 12 | 18 17 | 2 34 | 22 22 | 0 1 | 22 13 | 1 14 | 16 47 | 0 40 | 21 37 | 0 41 | 17 4 | 6 16 | 15 12 | 15 26 | 19 53 | 10 1 | 6 35 |
| T 15 | 9 56 | 18 25 | 4 27 | 2 22 | 2 40 | 5 58 | 1 14 | 18 11 | 2 32 | 22 22 | 0 1 | 22 13 | 1 14 | 16 47 | 0 40 | 21 37 | 0 41 | 17 4 | 6 16 | 15 15 | 15 26 | 19 53 | 10 0 | 6 36 |
| W16 | 10 18 | 19 37 | 3 51 | 1 49 | 2 41 | 5 32 | 1 16 | 18 5 | 2 30 | 22 21 | 0 1 | 22 13 | 1 14 | 16 46 | 0 40 | 21 37 | 0 41 | 17 4 | 6 16 | 15 17 | 15 27 | 19 53 | 9 59 | 6 36 |
| T 17 | 10 39 | 19 56 | 3 6 | 1 16 | 2 42 | 5 6 | 1 19 | 17 58 | 2 28 | 22 21 | 0 1 | 22 13 | 1 15 | 16 46 | 0 40 | 21 37 | 0 41 | 17 5 | 6 15 | 15 18 | 15 28 | 19 53 | 9 58 | 6 37 |
| F 18 | 11 0 | 19 22 | 2 12 | 0 41 | 2 42 | 4 40 | 1 21 | 17 52 | 2 26 | 22 21 | 0 1 | 22 13 | 1 15 | 16 46 | 0 40 | 21 37 | 0 41 | 17 5 | 6 15 | 15 18 | 15 29 | 19 53 | 9 57 | 6 37 |
| S 19 | 11 20 | 17 57 | 1 13 | 0 5 | 2 41 | 4 14 | 1 23 | 17 46 | 2 24 | 22 21 | 0 1 | 22 13 | 1 15 | 16 45 | 0 40 | 21 37 | 0 41 | 17 5 | 6 15 | 15 18 | 15 30 | 19 53 | 9 56 | 6 37 |
| S 20 | 11 41 | 15 43 | 0 10 | 0n32 | 2 40 | 3 48 | 1 25 | 17 39 | 2 22 | 22 20 | 0 1 | 22 13 | 1 15 | 16 45 | 0 40 | 21 37 | 0 41 | 17 5 | 6 15 | 15 18 | 15 31 | 19 53 | 9 55 | 6 38 |
| M21 | 12 1 | 12 45 | 0s55 | 1 10 | 2 38 | 3 21 | 1 27 | 17 32 | 2 20 | 22 20 | 0 1 | 22 13 | 1 15 | 16 44 | 0 40 | 21 37 | 0 41 | 17 6 | 6 15 | 15 18 | 15 32 | 19 54 | 9 54 | 6 38 |
| T 22 | 12 21 | 9 10 | 1 58 | 1 50 | 2 36 | 2 55 | 1 29 | 17 25 | 2 18 | 22 20 | 0 1 | 22 13 | 1 15 | 16 44 | 0 40 | 21 37 | 0 41 | 17 6 | 6 15 | 15 19 | 15 33 | 19 54 | 9 53 | 6 39 |
| W23 | 12 41 | 5 4 | 2 57 | 2 30 | 2 33 | 2 28 | 1 30 | 17 18 | 2 16 | 22 20 | 0 0 | 22 13 | 1 15 | 16 44 | 0 40 | 21 37 | 0 41 | 17 6 | 6 14 | 15 20 | 15 34 | 19 54 | 9 52 | 6 39 |
| T 24 | 13 1 | 0 36 | 3 48 | 3 12 | 2 30 | 2 1 | 1 32 | 17 11 | 2 14 | 22 20 | 0 0 | 22 13 | 1 15 | 16 43 | 0 40 | 21 37 | 0 41 | 17 6 | 6 14 | 15 23 | 15 35 | 19 54 | 9 51 | 6 39 |
| F 25 | 13 21 | 4n 1 | 4 28 | 3 54 | 2 26 | 1 34 | 1 34 | 17 4 | 2 12 | 22 20 | 0 0 | 22 13 | 1 15 | 16 43 | 0 40 | 21 37 | 0 41 | 17 6 | 6 14 | 15 25 | 15 36 | 19 54 | 9 50 | 6 40 |
| S 26 | 13 40 | 8 32 | 4 53 | 4 37 | 2 22 | 1 7 | 1 35 | 16 56 | 2 10 | 22 19 | 0 0 | 22 13 | 1 15 | 16 43 | 0 40 | 21 37 | 0 41 | 17 7 | 6 14 | 15 29 | 15 37 | 19 54 | 9 50 | 6 40 |
| S 27 | 13 59 | 12 41 | 5 1 | 5 21 | 2 17 | 0 40 | 1 37 | 16 48 | 2 8 | 22 19 | 0s 0 | 22 13 | 1 15 | 16 42 | 0 40 | 21 37 | 0 41 | 17 7 | 6 14 | 15 32 | 15 38 | 19 54 | 9 49 | 6 41 |
| M28 | 14 18 | 16 9 | 4 50 | 6 6 | 2 11 | 0 13 | 1 38 | 16 41 | 2 6 | 22 19 | 0 0 | 22 12 | 1 15 | 16 42 | 0 40 | 21 37 | 0 41 | 17 7 | 6 14 | 15 36 | 15 39 | 19 54 | 9 48 | 6 41 |
| T 29 | 14 37 | 18 38 | 4 20 | 6 52 | 2 5 | 0n14 | 1 39 | 16 33 | 2 4 | 22 19 | 0 0 | 22 12 | 1 15 | 16 42 | 0 40 | 21 37 | 0 41 | 17 7 | 6 14 | 15 39 | 15 40 | 19 54 | 9 47 | 6 41 |
| W30 | 14n55 | 19n55 | 3s33 | 7n38 | 1s59 | 0n42 | 1s40 | 16n25 | 2n 2 | 22s19 | 0s 0 | 22s12 | 1n15 | 16s41 | 0s40 | 21s37 | 0n41 | 17n 7 | 6s13 | 15n41 | 15n41 | 19s54 | 9s46 | 6n42 |

Julian Day Number = 2328914.5, Delta T = 33.51 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'14, Lahiri = 19°10'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## MAY 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 38 24 | 11♉13'09 | 16♋57 | 26♈16 | 6♈48 | 21♌28 | 17♏40 | 27°R18 | 16♒ 5 | 17°R45 | 23♊52 | 17°R15 | 17♌13 | 15♏13 | 15♒39 | T 1 |
| F 2 | 14 42 21 | 12°11'11 | 1♌12 | 28° 9 | 7°59 | 21°48 | 17°41 | 27♐15 | 16° 6 | 17♏45 | 23°54 | 17♌13 | 17°10 | 15°19 | 15°41 | F 2 |
| S 3 | 14 46 18 | 13° 9'12 | 15°15 | 0♌ 4 | 9°11 | 22° 8 | 17°41 | 27°13 | 16° 7 | 17°44 | 23°55 | 17°13 | 17° 7 | 15°26 | 15°42 | S 3 |
| S 4 | 14 50 14 | 14° 7'11 | 29° 7 | 2° 1 | 10°22 | 22°29 | 17°R41 | 27°10 | 16° 7 | 17°44 | 23°56 | 17°13 | 17° 4 | 15°33 | 15°43 | S 4 |
| M 5 | 14 54 11 | 15° 5'08 | 12♍47 | 3°59 | 11°34 | 22°51 | 17°41 | 27° 7 | 16° 8 | 17°43 | 23°57 | 17°11 | 17° 1 | 15°39 | 15°44 | M 5 |
| T 6 | 14 58 7 | 16° 3'03 | 26°16 | 6° 0 | 12°45 | 23°12 | 17°41 | 27° 5 | 16° 9 | 17°43 | 23°58 | 17° 7 | 16°57 | 15°46 | 15°45 | T 6 |
| W 7 | 15 2 4 | 17° 0'56 | 9♎34 | 8° 2 | 13°57 | 23°34 | 17°41 | 27° 2 | 16°10 | 17°42 | 23°59 | 17° 1 | 16°54 | 15°53 | 15°46 | W 7 |
| T 8 | 15 6 0 | 17°58'48 | 22°41 | 10° 6 | 15° 9 | 23°57 | 17°40 | 26°59 | 16°10 | 17°42 | 24° 0 | 16°51 | 16°51 | 15°59 | 15°46 | T 8 |
| F 9 | 15 9 57 | 18°56'38 | 5♏37 | 12°11 | 16°20 | 24°19 | 17°39 | 26°56 | 16°11 | 17°41 | 24° 2 | 16°40 | 16°48 | 16° 6 | 15°47 | F 9 |
| S 10 | 15 13 53 | 19°54'27 | 18°20 | 14°18 | 17°32 | 24°42 | 17°38 | 26°53 | 16°11 | 17°41 | 24° 3 | 16°27 | 16°45 | 16°13 | 15°48 | S 10 |
| S 11 | 15 17 50 | 20°52'14 | 0♐51 | 16°26 | 18°44 | 25° 6 | 17°37 | 26°50 | 16°12 | 17°40 | 24° 4 | 16°14 | 16°42 | 16°19 | 15°48 | S 11 |
| M12 | 15 21 47 | 21°49'59 | 13° 9 | 18°35 | 19°55 | 25°29 | 17°36 | 26°47 | 16°12 | 17°39 | 24° 5 | 16° 1 | 16°38 | 16°26 | 15°49 | M12 |
| T 13 | 15 25 43 | 22°47'44 | 25°16 | 20°45 | 21° 7 | 25°53 | 17°34 | 26°44 | 16°13 | 17°38 | 24° 7 | 15°51 | 16°35 | 16°33 | 15°49 | T 13 |
| W14 | 15 29 40 | 23°45'27 | 7♑14 | 22°56 | 22°19 | 26°17 | 17°33 | 26°41 | 16°13 | 17°38 | 24° 8 | 15°43 | 16°32 | 16°39 | 15°50 | W14 |
| T 15 | 15 33 36 | 24°43'09 | 19° 5 | 25° 7 | 23°31 | 26°41 | 17°31 | 26°37 | 16°13 | 17°37 | 24° 9 | 15°39 | 16°29 | 16°46 | 15°50 | T 15 |
| F 16 | 15 37 33 | 25°40'50 | 0♒53 | 27°18 | 24°43 | 27° 6 | 17°29 | 26°34 | 16°13 | 17°36 | 24°10 | 15°36 | 16°26 | 16°53 | 15°50 | F 16 |
| S 17 | 15 41 29 | 26°38'29 | 12°43 | 29°30 | 25°55 | 27°31 | 17°26 | 26°30 | 16°14 | 17°35 | 24°12 | 15°D35 | 16°23 | 16°59 | 15°51 | S 17 |
| S 18 | 15 45 26 | 27°36'08 | 24°40 | 1♊41 | 27° 6 | 27°56 | 17°24 | 26°27 | 16°14 | 17°34 | 24°13 | 15°R35 | 16°19 | 17° 6 | 15°51 | S 18 |
| M19 | 15 49 22 | 28°33'46 | 6♓49 | 3°52 | 28°18 | 28°22 | 17°21 | 26°23 | 16°14 | 17°33 | 24°14 | 15°35 | 16°16 | 17°13 | 15°51 | M19 |
| T 20 | 15 53 19 | 29°31'22 | 19°16 | 6° 2 | 29°30 | 28°47 | 17°19 | 26°20 | 16°R14 | 17°33 | 24°16 | 15°34 | 16°13 | 17°19 | 15°R51 | T 20 |
| W21 | 15 57 16 | 0♊28'58 | 2♈ 5 | 8°10 | 0♉42 | 29°13 | 17°16 | 26°16 | 16°14 | 17°32 | 24°17 | 15°30 | 16°10 | 17°26 | 15°51 | W21 |
| T 22 | 16 1 12 | 1°26'33 | 15°20 | 10°18 | 1°54 | 29°39 | 17°12 | 26°12 | 16°14 | 17°31 | 24°18 | 15°24 | 16° 7 | 17°33 | 15°51 | T 22 |
| F 23 | 16 5 9 | 2°24'07 | 29° 3 | 12°23 | 3° 6 | 0♍ 6 | 17° 9 | 26° 8 | 16°14 | 17°30 | 24°20 | 15°16 | 16° 3 | 17°39 | 15°51 | F 23 |
| S 24 | 16 9 5 | 3°21'39 | 13♉12 | 14°27 | 4°19 | 0°33 | 17° 6 | 26° 4 | 16°14 | 17°29 | 24°21 | 15° 6 | 16° 0 | 17°46 | 15°50 | S 24 |
| S 25 | 16 13 2 | 4°19'11 | 27°44 | 16°29 | 5°31 | 0°59 | 17° 2 | 26° 1 | 16°13 | 17°28 | 24°22 | 14°55 | 15°57 | 17°53 | 15°50 | S 25 |
| M26 | 16 16 58 | 5°16'42 | 12♊32 | 18°29 | 6°43 | 1°27 | 16°58 | 25°57 | 16°13 | 17°26 | 24°24 | 14°45 | 15°54 | 17°59 | 15°50 | M26 |
| T 27 | 16 20 55 | 6°14'12 | 27°27 | 20°27 | 7°55 | 1°54 | 16°54 | 25°53 | 16°13 | 17°25 | 24°25 | 14°37 | 15°51 | 18° 6 | 15°49 | T 27 |
| W28 | 16 24 51 | 7°11'41 | 12♋20 | 22°22 | 9° 7 | 2°22 | 16°50 | 25°49 | 16°12 | 17°24 | 24°26 | 14°31 | 15°48 | 18°13 | 15°49 | W28 |
| T 29 | 16 28 48 | 8° 9'09 | 27° 5 | 24°15 | 10°19 | 2°49 | 16°46 | 25°45 | 16°12 | 17°23 | 24°28 | 14°28 | 15°44 | 18°19 | 15°48 | T 29 |
| F 30 | 16 32 45 | 9° 6'35 | 11♌35 | 26° 5 | 11°31 | 3°18 | 16°41 | 25°40 | 16°12 | 17°22 | 24°29 | 14°D27 | 15°41 | 18°26 | 15°48 | F 30 |
| S 31 | 16 36 41 | 10♊ 4'00 | 25♌47 | 27♊53 | 12♉44 | 3♍46 | 16♏36 | 25♐36 | 16♒11 | 17♏21 | 24♊31 | 14♌27 | 15♌38 | 18♏33 | 15♒47 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n13 | 19n53 | 2s33 | 8n25 | 1s52 | 1n 9 | 1s41 | 16n17 | 2n 1 | 22s19 | 0s 1 | 22s12 | 1n15 | 16s41 | 0s40 | 21s37 | 0n41 | 17n 7 | 6s13 | 15n42 | 15n42 | 19s54 | 9s46 | 6n42 |
| F 2 | 15 31 | 18 34 | 1 24 | 9 12 | 1 45 | 1 36 | 1 42 | 16 8 | 1 59 | 22 19 | 0 1 | 22 12 | 1 15 | 16 41 | 0 40 | 21 37 | 0 41 | 17 8 | 6 13 | 15 42 | 15 43 | 19 54 | 9 45 | 6 43 |
| S 3 | 15 49 | 16 7 | 0 10 | 10 0 | 1 37 | 2 4 | 1 43 | 16 0 | 1 57 | 22 19 | 0 1 | 22 12 | 1 15 | 16 41 | 0 40 | 21 37 | 0 41 | 17 8 | 6 13 | 15 42 | 15 44 | 19 54 | 9 44 | 6 43 |
| S 4 | 16 6 | 12 47 | 1n 3 | 10 48 | 1 29 | 2 31 | 1 44 | 15 52 | 1 55 | 22 20 | 0 1 | 22 12 | 1 15 | 16 40 | 0 40 | 21 37 | 0 41 | 17 8 | 6 13 | 15 42 | 15 45 | 19 54 | 9 43 | 6 44 |
| M 5 | 16 23 | 8 47 | 2 11 | 11 37 | 1 20 | 2 58 | 1 45 | 15 43 | 1 54 | 22 20 | 0 1 | 22 12 | 1 15 | 16 40 | 0 40 | 21 37 | 0 41 | 17 8 | 6 13 | 15 43 | 15 46 | 19 54 | 9 43 | 6 44 |
| T 6 | 16 40 | 4 24 | 3 11 | 12 26 | 1 11 | 3 26 | 1 45 | 15 34 | 1 52 | 22 20 | 0 1 | 22 12 | 1 15 | 16 40 | 0 41 | 21 37 | 0 41 | 17 8 | 6 13 | 15 44 | 15 47 | 19 54 | 9 42 | 6 44 |
| W 7 | 16 57 | 0s 8 | 3 59 | 13 14 | 1 2 | 3 53 | 1 46 | 15 25 | 1 50 | 22 20 | 0 1 | 22 12 | 1 15 | 16 40 | 0 41 | 21 38 | 0 41 | 17 9 | 6 12 | 15 46 | 15 48 | 19 54 | 9 41 | 6 45 |
| T 8 | 17 13 | 4 36 | 4 34 | 14 3 | 0 52 | 4 20 | 1 46 | 15 16 | 1 49 | 22 20 | 0 2 | 22 12 | 1 15 | 16 40 | 0 41 | 21 38 | 0 41 | 17 9 | 6 12 | 15 49 | 15 49 | 19 54 | 9 41 | 6 45 |
| F 9 | 17 29 | 8 47 | 4 55 | 14 51 | 0 42 | 4 47 | 1 47 | 15 7 | 1 47 | 22 20 | 0 2 | 22 12 | 1 15 | 16 40 | 0 41 | 21 38 | 0 41 | 17 9 | 6 12 | 15 52 | 15 50 | 19 54 | 9 40 | 6 46 |
| S 10 | 17 45 | 12 31 | 5 0 | 15 39 | 0 32 | 5 15 | 1 47 | 14 58 | 1 45 | 22 21 | 0 2 | 22 12 | 1 15 | 16 40 | 0 41 | 21 38 | 0 41 | 17 9 | 6 12 | 15 56 | 15 51 | 19 54 | 9 40 | 6 46 |
| S 11 | 18 0 | 15 37 | 4 51 | 16 26 | 0 21 | 5 42 | 1 47 | 14 48 | 1 44 | 22 21 | 0 2 | 22 12 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 9 | 6 12 | 16 0 | 15 52 | 19 54 | 9 39 | 6 46 |
| M12 | 18 15 | 17 59 | 4 28 | 17 13 | 0 11 | 6 9 | 1 47 | 14 39 | 1 42 | 22 21 | 0 2 | 22 11 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 10 | 6 12 | 16 4 | 15 53 | 19 54 | 9 38 | 6 47 |
| T 13 | 18 30 | 19 31 | 3 53 | 17 58 | 0 0 | 6 36 | 1 48 | 14 29 | 1 41 | 22 22 | 0 2 | 22 11 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 10 | 6 12 | 16 7 | 15 54 | 19 54 | 9 38 | 6 47 |
| W14 | 18 45 | 20 9 | 3 8 | 18 42 | 0n10 | 7 2 | 1 48 | 14 20 | 1 39 | 22 22 | 0 2 | 22 11 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 10 | 6 12 | 16 9 | 15 55 | 19 54 | 9 37 | 6 48 |
| T 15 | 18 59 | 19 53 | 2 16 | 19 25 | 0 21 | 7 29 | 1 47 | 14 10 | 1 37 | 22 22 | 0 2 | 22 11 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 10 | 6 11 | 16 10 | 15 55 | 19 53 | 9 37 | 6 48 |
| F 16 | 19 13 | 18 44 | 1 17 | 20 6 | 0 31 | 7 55 | 1 47 | 14 0 | 1 36 | 22 23 | 0 3 | 22 11 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 10 | 6 11 | 16 11 | 15 56 | 19 53 | 9 36 | 6 49 |
| S 17 | 19 26 | 16 47 | 0 15 | 20 45 | 0 41 | 8 22 | 1 47 | 13 50 | 1 34 | 22 23 | 0 3 | 22 11 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 10 | 6 11 | 16 11 | 15 57 | 19 53 | 9 36 | 6 49 |
| S 18 | 19 40 | 14 5 | 0s48 | 21 22 | 0 51 | 8 48 | 1 47 | 13 40 | 1 33 | 22 24 | 0 3 | 22 11 | 1 15 | 16 39 | 0 41 | 21 38 | 0 41 | 17 11 | 6 11 | 16 11 | 15 58 | 19 53 | 9 35 | 6 49 |
| M19 | 19 52 | 10 44 | 1 50 | 21 57 | 1 0 | 9 14 | 1 46 | 13 29 | 1 31 | 22 24 | 0 3 | 22 11 | 1 15 | 16 39 | 0 41 | 21 39 | 0 41 | 17 11 | 6 11 | 16 11 | 15 59 | 19 53 | 9 35 | 6 50 |
| T 20 | 20 5 | 6 51 | 2 49 | 22 29 | 1 9 | 9 40 | 1 46 | 13 19 | 1 30 | 22 25 | 0 3 | 22 11 | 1 15 | 16 39 | 0 41 | 21 39 | 0 41 | 17 11 | 6 11 | 16 12 | 16 0 | 19 53 | 9 35 | 6 50 |
| W21 | 20 17 | 2 32 | 3 40 | 22 59 | 1 18 | 10 6 | 1 45 | 13 9 | 1 28 | 22 25 | 0 3 | 22 11 | 1 15 | 16 39 | 0 41 | 21 39 | 0 41 | 17 11 | 6 11 | 16 13 | 16 1 | 19 53 | 9 34 | 6 51 |
| T 22 | 20 29 | 2n 1 | 4 22 | 23 27 | 1 26 | 10 31 | 1 45 | 12 58 | 1 27 | 22 26 | 0 3 | 22 11 | 1 15 | 16 39 | 0 41 | 21 39 | 0 41 | 17 11 | 6 11 | 16 15 | 16 2 | 19 53 | 9 34 | 6 51 |
| F 23 | 20 41 | 6 37 | 4 50 | 23 52 | 1 33 | 10 57 | 1 44 | 12 47 | 1 25 | 22 26 | 0 4 | 22 11 | 1 15 | 16 39 | 0 41 | 21 39 | 0 41 | 17 11 | 6 11 | 16 17 | 16 3 | 19 53 | 9 33 | 6 52 |
| S 24 | 20 52 | 11 1 | 5 2 | 24 14 | 1 40 | 11 22 | 1 43 | 12 37 | 1 24 | 22 27 | 0 4 | 22 10 | 1 15 | 16 39 | 0 41 | 21 39 | 0 41 | 17 12 | 6 10 | 16 20 | 16 4 | 19 53 | 9 33 | 6 52 |
| S 25 | 21 3 | 14 54 | 4 55 | 24 33 | 1 46 | 11 46 | 1 42 | 12 26 | 1 23 | 22 27 | 0 4 | 22 10 | 1 15 | 16 39 | 0 41 | 21 39 | 0 41 | 17 12 | 6 10 | 16 23 | 16 5 | 19 53 | 9 33 | 6 52 |
| M26 | 21 13 | 17 54 | 4 28 | 24 50 | 1 51 | 12 11 | 1 41 | 12 15 | 1 21 | 22 28 | 0 4 | 22 10 | 1 15 | 16 40 | 0 41 | 21 39 | 0 41 | 17 12 | 6 10 | 16 26 | 16 6 | 19 53 | 9 33 | 6 53 |
| T 27 | 21 23 | 19 45 | 3 43 | 25 4 | 1 56 | 12 35 | 1 40 | 12 3 | 1 20 | 22 29 | 0 4 | 22 10 | 1 15 | 16 40 | 0 41 | 21 40 | 0 41 | 17 12 | 6 10 | 16 29 | 16 7 | 19 53 | 9 32 | 6 53 |
| W28 | 21 33 | 20 13 | 2 42 | 25 15 | 2 0 | 12 59 | 1 39 | 11 52 | 1 18 | 22 29 | 0 4 | 22 10 | 1 15 | 16 40 | 0 41 | 21 40 | 0 41 | 17 12 | 6 10 | 16 30 | 16 8 | 19 52 | 9 32 | 6 54 |
| T 29 | 21 42 | 19 17 | 1 31 | 25 24 | 2 3 | 13 23 | 1 38 | 11 41 | 1 17 | 22 30 | 0 4 | 22 10 | 1 15 | 16 40 | 0 41 | 21 40 | 0 41 | 17 12 | 6 10 | 16 31 | 16 9 | 19 52 | 9 32 | 6 54 |
| F 30 | 21 51 | 17 6 | 0 15 | 25 30 | 2 5 | 13 47 | 1 37 | 11 30 | 1 16 | 22 31 | 0 5 | 22 10 | 1 15 | 16 40 | 0 41 | 21 40 | 0 41 | 17 12 | 6 10 | 16 32 | 16 10 | 19 52 | 9 32 | 6 54 |
| S 31 | 22n 0 | 13n53 | 1n 0 | 25n34 | 2n 7 | 14n10 | 1s36 | 11n18 | 1n14 | 22s32 | 0s 5 | 22s10 | 1n15 | 16s40 | 0s41 | 21s40 | 0n41 | 17n13 | 6s10 | 16n31 | 16n11 | 19s52 | 9s31 | 6n55 |

Julian Day Number = 2328944.5, Delta T = 33.46 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'18, Lahiri = 19°10'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## JUNE 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 40 38 | 11♊ 1'24 | 9♍40 | 29♊38 | 13♉56 | 4♍14 | 16°R32 | 25°R32 | 16°R11 | 17°R20 | 24♊32 | 14°R27 | 15♌35 | 18♑39 | 15°R46 | S 1 |
| M 2 | 16 44 34 | 11°58'47 | 23°15 | 1♋21 | 15° 8 | 4°43 | 16♑27 | 25♐28 | 16♒10 | 17♑18 | 24°33 | 14♌27 | 15°32 | 18°46 | 15♒45 | M 2 |
| T 3 | 16 48 31 | 12°56'09 | 6♎33 | 3° 1 | 16°20 | 5°12 | 16°21 | 25°24 | 16° 9 | 17°17 | 24°35 | 14°25 | 15°28 | 18°53 | 15°45 | T 3 |
| W 4 | 16 52 27 | 13°53'29 | 19°36 | 4°38 | 17°33 | 5°41 | 16°16 | 25°19 | 16° 9 | 17°16 | 24°36 | 14°20 | 15°25 | 18°59 | 15°44 | W 4 |
| T 5 | 16 56 24 | 14°50'49 | 2♏25 | 6°13 | 18°45 | 6°10 | 16°11 | 25°15 | 16° 8 | 17°15 | 24°38 | 14°13 | 15°22 | 19° 6 | 15°43 | T 5 |
| F 6 | 17 0 20 | 15°48'07 | 15° 2 | 7°44 | 19°57 | 6°40 | 16° 5 | 25°11 | 16° 7 | 17°13 | 24°39 | 14° 4 | 15°19 | 19°13 | 15°42 | F 6 |
| S 7 | 17 4 17 | 16°45'25 | 27°29 | 9°13 | 21°10 | 7° 9 | 16° 0 | 25° 6 | 16° 6 | 17°12 | 24°41 | 13°54 | 15°16 | 19°19 | 15°40 | S 7 |
| S 8 | 17 8 14 | 17°42'42 | 9♐44 | 10°40 | 22°22 | 7°39 | 15°54 | 25° 2 | 16° 6 | 17°11 | 24°42 | 13°43 | 15°13 | 19°26 | 15°39 | S 8 |
| M 9 | 17 12 10 | 18°39'58 | 21°51 | 12° 3 | 23°34 | 8° 9 | 15°48 | 24°58 | 16° 5 | 17° 9 | 24°43 | 13°34 | 15° 9 | 19°33 | 15°38 | M 9 |
| T 10 | 17 16 7 | 19°37'14 | 3♑50 | 13°24 | 24°47 | 8°39 | 15°42 | 24°53 | 16° 4 | 17° 8 | 24°45 | 13°26 | 15° 6 | 19°39 | 15°37 | T 10 |
| W11 | 17 20 3 | 20°34'29 | 15°42 | 14°42 | 25°59 | 9° 9 | 15°36 | 24°49 | 16° 3 | 17° 6 | 24°46 | 13°20 | 15° 3 | 19°46 | 15°35 | W11 |
| T 12 | 17 24 0 | 21°31'44 | 27°31 | 15°56 | 27°12 | 9°40 | 15°29 | 24°45 | 16° 2 | 17° 5 | 24°48 | 13°17 | 15° 0 | 19°52 | 15°34 | T 12 |
| F 13 | 17 27 56 | 22°28'59 | 9♒18 | 17° 8 | 28°24 | 10°10 | 15°23 | 24°40 | 16° 1 | 17° 4 | 24°49 | 13°D15 | 14°57 | 19°59 | 15°32 | F 13 |
| S 14 | 17 31 53 | 23°26'13 | 21° 8 | 18°17 | 29°37 | 10°41 | 15°16 | 24°36 | 15°59 | 17° 2 | 24°51 | 13°15 | 14°54 | 20° 6 | 15°31 | S 14 |
| S 15 | 17 35 49 | 24°23'26 | 3♓ 5 | 19°23 | 0♊49 | 11°12 | 15°10 | 24°31 | 15°58 | 17° 1 | 24°52 | 13°16 | 14°50 | 20°12 | 15°29 | S 15 |
| M16 | 17 39 46 | 25°20'40 | 15°14 | 20°25 | 2° 2 | 11°43 | 15° 3 | 24°27 | 15°57 | 16°59 | 24°53 | 13°18 | 14°47 | 20°19 | 15°28 | M16 |
| T 17 | 17 43 43 | 26°17'53 | 27°40 | 21°25 | 3°14 | 12°15 | 14°56 | 24°23 | 15°56 | 16°58 | 24°55 | 13°R18 | 14°44 | 20°26 | 15°26 | T 17 |
| W18 | 17 47 39 | 27°15'07 | 10♈27 | 22°21 | 4°27 | 12°46 | 14°49 | 24°18 | 15°55 | 16°56 | 24°56 | 13°17 | 14°41 | 20°32 | 15°24 | W18 |
| T 19 | 17 51 36 | 28°12'20 | 23°39 | 23°13 | 5°40 | 13°18 | 14°42 | 24°14 | 15°53 | 16°55 | 24°58 | 13°14 | 14°38 | 20°39 | 15°22 | T 19 |
| F 20 | 17 55 32 | 29° 9'33 | 7♉20 | 24° 2 | 6°52 | 13°50 | 14°35 | 24° 9 | 15°52 | 16°53 | 24°59 | 13°10 | 14°34 | 20°46 | 15°20 | F 20 |
| S 21 | 17 59 29 | 0♋ 6'46 | 21°29 | 24°47 | 8° 5 | 14°21 | 14°28 | 24° 5 | 15°50 | 16°52 | 25° 1 | 13° 4 | 14°31 | 20°52 | 15°19 | S 21 |
| S 22 | 18 3 25 | 1° 4'00 | 6♊ 5 | 25°29 | 9°18 | 14°54 | 14°20 | 24° 1 | 15°49 | 16°50 | 25° 2 | 12°58 | 14°28 | 20°59 | 15°17 | S 22 |
| M23 | 18 7 22 | 2° 1'13 | 21° 0 | 26° 7 | 10°30 | 15°26 | 14°13 | 23°56 | 15°48 | 16°49 | 25° 4 | 12°52 | 14°25 | 21° 6 | 15°15 | M23 |
| T 24 | 18 11 19 | 2°58'26 | 6♋ 7 | 26°40 | 11°43 | 15°58 | 14° 6 | 23°52 | 15°46 | 16°47 | 25° 5 | 12°47 | 14°22 | 21°12 | 15°12 | T 24 |
| W25 | 18 15 15 | 3°55'39 | 21°16 | 27°10 | 12°56 | 16°31 | 13°58 | 23°48 | 15°44 | 16°46 | 25° 6 | 12°44 | 14°19 | 21°19 | 15°10 | W25 |
| T 26 | 18 19 12 | 4°52'52 | 6♌18 | 27°35 | 14° 9 | 17° 3 | 13°51 | 23°43 | 15°43 | 16°44 | 25° 8 | 12°D42 | 14°15 | 21°26 | 15° 8 | T 26 |
| F 27 | 18 23 8 | 5°50'04 | 21° 5 | 27°56 | 15°22 | 17°36 | 13°43 | 23°39 | 15°41 | 16°42 | 25° 9 | 12°42 | 14°12 | 21°32 | 15° 6 | F 27 |
| S 28 | 18 27 5 | 6°47'16 | 5♍32 | 28°12 | 16°34 | 18° 9 | 13°36 | 23°35 | 15°40 | 16°41 | 25°11 | 12°44 | 14° 9 | 21°39 | 15° 4 | S 28 |
| S 29 | 18 31 1 | 7°44'28 | 19°35 | 28°24 | 17°47 | 18°42 | 13°28 | 23°31 | 15°38 | 16°39 | 25°12 | 12°45 | 14° 6 | 21°46 | 15° 1 | S 29 |
| M30 | 18 34 58 | 8♋41'40 | 3♎14 | 28♋32 | 19♊ 0 | 19♍15 | 13♑20 | 23♐26 | 15♒36 | 16♑38 | 25♊14 | 12°R46 | 14♌ 3 | 21♑52 | 14♒59 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 8 | 9n58 | 2n10 | 25n36 | 2n 7 | 14n33 | 1s34 | 11n 6 | 1n13 | 22s32 | 0s 5 | 22s10 | 1n15 | 16s41 | 0s42 | 21s40 | 0n41 | 17n13 | 6s10 | 16n31 | 16n12 | 19s52 | 9s31 | 6n55 |
| M 2 | 22 16 | 5 37 | 3 12 | 25 36 | 2 7 | 14 55 | 1 33 | 10 55 | 1 12 | 22 33 | 0 5 | 22 10 | 1 15 | 16 41 | 0 42 | 21 40 | 0 41 | 17 13 | 6 10 | 16 32 | 16 13 | 19 52 | 9 31 | 6 56 |
| T 3 | 22 23 | 1 5 | 4 1 | 25 33 | 2 7 | 15 17 | 1 32 | 10 43 | 1 10 | 22 34 | 0 5 | 22 9 | 1 15 | 16 41 | 0 42 | 21 41 | 0 41 | 17 13 | 6 10 | 16 32 | 16 13 | 19 52 | 9 31 | 6 56 |
| W 4 | 22 30 | 3s24 | 4 37 | 25 29 | 2 5 | 15 39 | 1 30 | 10 31 | 1 9 | 22 35 | 0 5 | 22 9 | 1 15 | 16 41 | 0 42 | 21 41 | 0 41 | 17 13 | 6 9 | 16 34 | 16 14 | 19 52 | 9 31 | 6 56 |
| T 5 | 22 37 | 7 40 | 4 58 | 25 23 | 2 3 | 16 1 | 1 29 | 10 19 | 1 8 | 22 35 | 0 6 | 22 9 | 1 15 | 16 41 | 0 42 | 21 41 | 0 41 | 17 13 | 6 9 | 16 36 | 16 15 | 19 51 | 9 31 | 6 57 |
| F 6 | 22 43 | 11 31 | 5 5 | 25 15 | 2 0 | 16 22 | 1 27 | 10 7 | 1 7 | 22 36 | 0 6 | 22 9 | 1 14 | 16 42 | 0 42 | 21 41 | 0 41 | 17 13 | 6 9 | 16 38 | 16 16 | 19 51 | 9 31 | 6 57 |
| S 7 | 22 49 | 14 49 | 4 56 | 25 5 | 1 56 | 16 42 | 1 25 | 9 55 | 1 5 | 22 37 | 0 6 | 22 9 | 1 14 | 16 42 | 0 42 | 21 41 | 0 41 | 17 13 | 6 9 | 16 41 | 16 17 | 19 51 | 9 31 | 6 58 |
| S 8 | 22 55 | 17 26 | 4 34 | 24 54 | 1 52 | 17 3 | 1 24 | 9 42 | 1 4 | 22 38 | 0 6 | 22 9 | 1 14 | 16 42 | 0 42 | 21 41 | 0 41 | 17 14 | 6 9 | 16 44 | 16 18 | 19 51 | 9 31 | 6 58 |
| M 9 | 23 0 | 19 14 | 4 0 | 24 42 | 1 47 | 17 23 | 1 22 | 9 30 | 1 3 | 22 39 | 0 6 | 22 9 | 1 14 | 16 43 | 0 42 | 21 42 | 0 41 | 17 14 | 6 9 | 16 47 | 16 19 | 19 51 | 9 31 | 6 58 |
| T 10 | 23 4 | 20 10 | 3 16 | 24 28 | 1 41 | 17 42 | 1 20 | 9 17 | 1 2 | 22 40 | 0 6 | 22 9 | 1 14 | 16 43 | 0 42 | 21 42 | 0 41 | 17 14 | 6 9 | 16 49 | 16 20 | 19 51 | 9 31 | 6 59 |
| W11 | 23 9 | 20 12 | 2 23 | 24 14 | 1 34 | 18 1 | 1 18 | 9 5 | 1 0 | 22 40 | 0 6 | 22 9 | 1 14 | 16 43 | 0 42 | 21 42 | 0 41 | 17 14 | 6 9 | 16 51 | 16 21 | 19 51 | 9 31 | 6 59 |
| T 12 | 23 13 | 19 19 | 1 24 | 23 58 | 1 27 | 18 20 | 1 16 | 8 52 | 0 59 | 22 41 | 0 7 | 22 9 | 1 14 | 16 44 | 0 42 | 21 42 | 0 41 | 17 14 | 6 9 | 16 52 | 16 22 | 19 50 | 9 31 | 6 59 |
| F 13 | 23 16 | 17 37 | 0 21 | 23 41 | 1 19 | 18 38 | 1 14 | 8 40 | 0 58 | 22 42 | 0 7 | 22 8 | 1 14 | 16 44 | 0 42 | 21 42 | 0 41 | 17 14 | 6 9 | 16 52 | 16 23 | 19 50 | 9 31 | 7 0 |
| S 14 | 23 19 | 15 9 | 0s43 | 23 24 | 1 11 | 18 55 | 1 12 | 8 27 | 0 57 | 22 43 | 0 7 | 22 8 | 1 14 | 16 44 | 0 42 | 21 42 | 0 41 | 17 14 | 6 9 | 16 52 | 16 24 | 19 50 | 9 31 | 7 0 |
| S 15 | 23 22 | 12 1 | 1 45 | 23 6 | 1 1 | 19 13 | 1 10 | 8 14 | 0 56 | 22 44 | 0 7 | 22 8 | 1 14 | 16 45 | 0 42 | 21 43 | 0 41 | 17 14 | 6 9 | 16 52 | 16 25 | 19 50 | 9 31 | 7 0 |
| M16 | 23 24 | 8 21 | 2 44 | 22 47 | 0 52 | 19 29 | 1 8 | 8 1 | 0 54 | 22 45 | 0 7 | 22 8 | 1 14 | 16 45 | 0 42 | 21 43 | 0 41 | 17 14 | 6 9 | 16 52 | 16 26 | 19 50 | 9 31 | 7 1 |
| T 17 | 23 26 | 4 15 | 3 37 | 22 27 | 0 41 | 19 45 | 1 6 | 7 48 | 0 53 | 22 46 | 0 7 | 22 8 | 1 14 | 16 45 | 0 42 | 21 43 | 0 41 | 17 15 | 6 9 | 16 51 | 16 27 | 19 50 | 9 31 | 7 1 |
| W18 | 23 27 | 0n 9 | 4 21 | 22 7 | 0 30 | 20 1 | 1 4 | 7 35 | 0 52 | 22 47 | 0 8 | 22 8 | 1 14 | 16 46 | 0 42 | 21 43 | 0 41 | 17 15 | 6 9 | 16 52 | 16 27 | 19 49 | 9 32 | 7 1 |
| T 19 | 23 28 | 4 41 | 4 52 | 21 47 | 0 19 | 20 16 | 1 2 | 7 22 | 0 51 | 22 48 | 0 8 | 22 8 | 1 14 | 16 46 | 0 42 | 21 43 | 0 41 | 17 15 | 6 9 | 16 52 | 16 28 | 19 49 | 9 32 | 7 2 |
| F 20 | 23 29 | 9 8 | 5 8 | 21 27 | 0 7 | 20 31 | 1 0 | 7 8 | 0 50 | 22 49 | 0 8 | 22 8 | 1 13 | 16 47 | 0 42 | 21 44 | 0 41 | 17 15 | 6 9 | 16 54 | 16 29 | 19 49 | 9 32 | 7 2 |
| S 21 | 23 29 | 13 14 | 5 6 | 21 7 | 0s 6 | 20 45 | 0 57 | 6 55 | 0 49 | 22 50 | 0 8 | 22 8 | 1 13 | 16 47 | 0 42 | 21 44 | 0 41 | 17 15 | 6 9 | 16 55 | 16 30 | 19 49 | 9 32 | 7 2 |
| S 22 | 23 29 | 16 41 | 4 45 | 20 46 | 0 19 | 20 58 | 0 55 | 6 41 | 0 48 | 22 51 | 0 8 | 22 8 | 1 13 | 16 48 | 0 42 | 21 44 | 0 41 | 17 15 | 6 8 | 16 57 | 16 31 | 19 49 | 9 32 | 7 3 |
| M23 | 23 28 | 19 7 | 4 4 | 20 26 | 0 32 | 21 11 | 0 53 | 6 28 | 0 46 | 22 51 | 0 8 | 22 7 | 1 13 | 16 48 | 0 42 | 21 44 | 0 41 | 17 15 | 6 8 | 16 59 | 16 32 | 19 48 | 9 33 | 7 3 |
| T 24 | 23 27 | 20 15 | 3 6 | 20 6 | 0 46 | 21 24 | 0 51 | 6 14 | 0 45 | 22 52 | 0 8 | 22 7 | 1 13 | 16 49 | 0 42 | 21 44 | 0 41 | 17 15 | 6 8 | 17 0 | 16 33 | 19 48 | 9 33 | 7 3 |
| W25 | 23 25 | 19 55 | 1 54 | 19 46 | 1 1 | 21 36 | 0 48 | 6 1 | 0 44 | 22 53 | 0 9 | 22 7 | 1 13 | 16 49 | 0 42 | 21 45 | 0 41 | 17 15 | 6 8 | 17 1 | 16 34 | 19 48 | 9 33 | 7 4 |
| T 26 | 23 23 | 18 10 | 0 35 | 19 27 | 1 15 | 21 47 | 0 46 | 5 47 | 0 43 | 22 54 | 0 9 | 22 7 | 1 13 | 16 50 | 0 42 | 21 45 | 0 41 | 17 15 | 6 8 | 17 2 | 16 35 | 19 48 | 9 34 | 7 4 |
| F 27 | 23 21 | 15 13 | 0n46 | 19 8 | 1 30 | 21 57 | 0 43 | 5 33 | 0 42 | 22 55 | 0 9 | 22 7 | 1 13 | 16 50 | 0 42 | 21 45 | 0 41 | 17 15 | 6 8 | 17 1 | 16 36 | 19 47 | 9 34 | 7 4 |
| S 28 | 23 18 | 11 23 | 2 1 | 18 50 | 1 45 | 22 7 | 0 41 | 5 19 | 0 41 | 22 56 | 0 9 | 22 7 | 1 13 | 16 51 | 0 42 | 21 45 | 0 41 | 17 15 | 6 8 | 17 1 | 16 37 | 19 47 | 9 34 | 7 5 |
| S 29 | 23 15 | 7 1 | 3 8 | 18 33 | 2 1 | 22 17 | 0 39 | 5 5 | 0 40 | 22 57 | 0 9 | 22 7 | 1 13 | 16 51 | 0 42 | 21 45 | 0 41 | 17 16 | 6 8 | 17 1 | 16 38 | 19 47 | 9 35 | 7 5 |
| M30 | 23n12 | 2n24 | 4n 2 | 18n16 | 2s16 | 22n26 | 0s36 | 4n51 | 0n39 | 22s58 | 0s 9 | 22s 7 | 1n12 | 16s52 | 0s42 | 21s46 | 0n41 | 17n16 | 6s 8 | 17n 1 | 16n39 | 19s47 | 9s35 | 7n 5 |

Julian Day Number = 2328975.5, Delta T = 33.40 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'22, Lahiri = 19°10'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## JULY 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 38 54 | 9♋38'51 | 16♎31 | 28°R34 | 20♊13 | 19♍49 | 13°R13 | 23°R22 | 15°R34 | 16°R36 | 25♊15 | 12°R46 | 14♌ 0 | 21♑59 | 14°R57 | T 1 |
| W 2 | 18 42 51 | 10°36'02 | 29°28 | 28♋32 | 21°26 | 20°22 | 13♑ 5 | 23♐18 | 15♒33 | 16♑34 | 25°16 | 12♌44 | 13°56 | 22° 6 | 14♒54 | W 2 |
| T 3 | 18 46 48 | 11°33'13 | 12♏ 7 | 28°25 | 22°39 | 20°56 | 12°57 | 23°14 | 15°31 | 16°33 | 25°18 | 12°42 | 13°53 | 22°12 | 14°52 | T 3 |
| F 4 | 18 50 44 | 12°30'24 | 24°33 | 28°14 | 23°52 | 21°30 | 12°50 | 23°10 | 15°29 | 16°31 | 25°19 | 12°38 | 13°50 | 22°19 | 14°49 | F 4 |
| S 5 | 18 54 41 | 13°27'34 | 6♐46 | 27°58 | 25° 5 | 22° 3 | 12°42 | 23° 6 | 15°27 | 16°30 | 25°21 | 12°33 | 13°47 | 22°26 | 14°47 | S 5 |
| S 6 | 18 58 37 | 14°24'45 | 18°50 | 27°37 | 26°18 | 22°37 | 12°34 | 23° 2 | 15°25 | 16°28 | 25°22 | 12°28 | 13°44 | 22°32 | 14°44 | S 6 |
| M 7 | 19 2 34 | 15°21'57 | 0♑47 | 27°13 | 27°31 | 23°11 | 12°26 | 22°58 | 15°23 | 16°26 | 25°23 | 12°24 | 13°40 | 22°39 | 14°41 | M 7 |
| T 8 | 19 6 30 | 16°19'08 | 12°39 | 26°44 | 28°44 | 23°46 | 12°19 | 22°54 | 15°21 | 16°25 | 25°25 | 12°20 | 13°37 | 22°46 | 14°39 | T 8 |
| W 9 | 19 10 27 | 17°16'19 | 24°28 | 26°13 | 29°57 | 24°20 | 12°11 | 22°50 | 15°19 | 16°23 | 25°26 | 12°18 | 13°34 | 22°52 | 14°36 | W 9 |
| T 10 | 19 14 23 | 18°13'31 | 6♒16 | 25°38 | 1♋11 | 24°55 | 12° 3 | 22°47 | 15°17 | 16°21 | 25°27 | 12°16 | 13°31 | 22°59 | 14°33 | T 10 |
| F 11 | 19 18 20 | 19°10'44 | 18° 5 | 25° 1 | 2°24 | 25°29 | 11°56 | 22°43 | 15°15 | 16°20 | 25°29 | 12°D16 | 13°28 | 23° 6 | 14°30 | F 11 |
| S 12 | 19 22 17 | 20° 7'57 | 29°59 | 24°22 | 3°37 | 26° 4 | 11°48 | 22°39 | 15°13 | 16°18 | 25°30 | 12°17 | 13°25 | 23°12 | 14°28 | S 12 |
| S 13 | 19 26 13 | 21° 5'10 | 12♓ 0 | 23°41 | 4°50 | 26°39 | 11°41 | 22°36 | 15°11 | 16°17 | 25°31 | 12°19 | 13°21 | 23°19 | 14°25 | S 13 |
| M14 | 19 30 10 | 22° 2'24 | 24°13 | 23° 0 | 6° 3 | 27°14 | 11°33 | 22°32 | 15° 9 | 16°15 | 25°33 | 12°20 | 13°18 | 23°26 | 14°22 | M14 |
| T 15 | 19 34 6 | 22°59'39 | 6♈40 | 22°19 | 7°17 | 27°49 | 11°26 | 22°29 | 15° 7 | 16°13 | 25°34 | 12°22 | 13°15 | 23°32 | 14°19 | T 15 |
| W16 | 19 38 3 | 23°56'55 | 19°26 | 21°39 | 8°30 | 28°24 | 11°18 | 22°25 | 15° 5 | 16°12 | 25°35 | 12°R22 | 13°12 | 23°39 | 14°16 | W16 |
| T 17 | 19 41 59 | 24°54'11 | 2♉35 | 21° 1 | 9°43 | 28°59 | 11°11 | 22°22 | 15° 2 | 16°10 | 25°37 | 12°22 | 13° 9 | 23°45 | 14°13 | T 17 |
| F 18 | 19 45 56 | 25°51'29 | 16° 9 | 20°25 | 10°57 | 29°34 | 11° 4 | 22°18 | 15° 0 | 16° 9 | 25°38 | 12°21 | 13° 6 | 23°52 | 14°10 | F 18 |
| S 19 | 19 49 52 | 26°48'47 | 0♊10 | 19°51 | 12°10 | 0♎10 | 10°57 | 22°15 | 14°58 | 16° 7 | 25°39 | 12°20 | 13° 2 | 23°59 | 14° 7 | S 19 |
| S 20 | 19 53 49 | 27°46'06 | 14°37 | 19°22 | 13°24 | 0°45 | 10°49 | 22°12 | 14°56 | 16° 5 | 25°40 | 12°18 | 12°59 | 24° 5 | 14° 4 | S 20 |
| M21 | 19 57 46 | 28°43'27 | 29°25 | 18°56 | 14°37 | 1°21 | 10°42 | 22° 9 | 14°53 | 16° 4 | 25°42 | 12°16 | 12°56 | 24°12 | 14° 1 | M21 |
| T 22 | 20 1 42 | 29°40'48 | 14♋29 | 18°35 | 15°51 | 1°57 | 10°35 | 22° 6 | 14°51 | 16° 2 | 25°43 | 12°15 | 12°53 | 24°19 | 13°58 | T 22 |
| W23 | 20 5 39 | 0♌38'10 | 29°40 | 18°20 | 17° 4 | 2°33 | 10°29 | 22° 3 | 14°49 | 16° 1 | 25°44 | 12°14 | 12°50 | 24°25 | 13°55 | W23 |
| T 24 | 20 9 35 | 1°35'32 | 14♌49 | 18° 9 | 18°18 | 3° 9 | 10°22 | 22° 0 | 14°47 | 15°59 | 25°45 | 12°D14 | 12°46 | 24°32 | 13°52 | T 24 |
| F 25 | 20 13 32 | 2°32'56 | 29°46 | 18°D 5 | 19°31 | 3°45 | 10°15 | 21°57 | 14°44 | 15°58 | 25°46 | 12°14 | 12°43 | 24°39 | 13°49 | F 25 |
| S 26 | 20 17 28 | 3°30'20 | 14♍24 | 18° 7 | 20°45 | 4°21 | 10° 9 | 21°54 | 14°42 | 15°56 | 25°48 | 12°15 | 12°40 | 24°45 | 13°46 | S 26 |
| S 27 | 20 21 25 | 4°27'45 | 28°39 | 18°14 | 21°59 | 4°58 | 10° 2 | 21°52 | 14°40 | 15°55 | 25°49 | 12°16 | 12°37 | 24°52 | 13°42 | S 27 |
| M28 | 20 25 21 | 5°25'10 | 12♎27 | 18°29 | 23°12 | 5°34 | 9°56 | 21°49 | 14°37 | 15°53 | 25°50 | 12°16 | 12°34 | 24°59 | 13°39 | M28 |
| T 29 | 20 29 18 | 6°22'36 | 25°49 | 18°49 | 24°26 | 6°11 | 9°50 | 21°47 | 14°35 | 15°52 | 25°51 | 12°17 | 12°31 | 25° 5 | 13°36 | T 29 |
| W30 | 20 33 15 | 7°20'03 | 8♏48 | 19°16 | 25°40 | 6°48 | 9°44 | 21°44 | 14°33 | 15°50 | 25°52 | 12°R17 | 12°27 | 25°12 | 13°33 | W30 |
| T 31 | 20 37 11 | 8♌17'30 | 21♏25 | 19♋50 | 26♋53 | 7♎24 | 9♑38 | 21♐42 | 14♒30 | 15♑49 | 25♊53 | 12♌17 | 12♌24 | 25♑19 | 13♒30 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 8 | 2s11 | 4n41 | 18n 1 | 2s31 | 22n34 | 0s34 | 4n37 | 0n38 | 22s59 | 0s 9 | 22s 7 | 1n12 | 16s52 | 0s42 | 21s46 | 0n41 | 17n16 | 6s 8 | 17n 1 | 16n39 | 19s47 | 9s36 | 7n 5 |
| W 2 | 23 3 | 6 33 | 5 4 | 17 46 | 2 46 | 22 41 | 0 31 | 4 23 | 0 37 | 23 0 | 0 10 | 22 7 | 1 12 | 16 53 | 0 43 | 21 46 | 0 41 | 17 16 | 6 8 | 17 1 | 16 40 | 19 46 | 9 36 | 7 6 |
| T 3 | 22 59 | 10 32 | 5 13 | 17 33 | 3 1 | 22 48 | 0 29 | 4 9 | 0 36 | 23 1 | 0 10 | 22 6 | 1 12 | 16 53 | 0 43 | 21 46 | 0 41 | 17 16 | 6 8 | 17 2 | 16 41 | 19 46 | 9 37 | 7 6 |
| F 4 | 22 54 | 13 59 | 5 6 | 17 21 | 3 16 | 22 54 | 0 26 | 3 55 | 0 35 | 23 2 | 0 10 | 22 6 | 1 12 | 16 54 | 0 43 | 21 46 | 0 41 | 17 16 | 6 8 | 17 3 | 16 42 | 19 46 | 9 37 | 7 6 |
| S 5 | 22 48 | 16 47 | 4 46 | 17 10 | 3 30 | 23 0 | 0 24 | 3 40 | 0 34 | 23 2 | 0 10 | 22 6 | 1 12 | 16 55 | 0 43 | 21 47 | 0 41 | 17 16 | 6 8 | 17 4 | 16 43 | 19 46 | 9 38 | 7 6 |
| S 6 | 22 42 | 18 49 | 4 12 | 17 1 | 3 44 | 23 5 | 0 21 | 3 26 | 0 33 | 23 3 | 0 10 | 22 6 | 1 12 | 16 55 | 0 43 | 21 47 | 0 41 | 17 16 | 6 8 | 17 6 | 16 44 | 19 45 | 9 38 | 7 6 |
| M 7 | 22 36 | 20 0 | 3 29 | 16 53 | 3 57 | 23 9 | 0 18 | 3 12 | 0 32 | 23 4 | 0 10 | 22 6 | 1 12 | 16 56 | 0 43 | 21 47 | 0 41 | 17 16 | 6 8 | 17 7 | 16 45 | 19 45 | 9 39 | 7 7 |
| T 8 | 22 29 | 20 18 | 2 36 | 16 47 | 4 8 | 23 13 | 0 16 | 2 57 | 0 31 | 23 5 | 0 10 | 22 6 | 1 11 | 16 56 | 0 43 | 21 47 | 0 41 | 17 16 | 6 8 | 17 8 | 16 46 | 19 45 | 9 39 | 7 7 |
| W 9 | 22 22 | 19 41 | 1 37 | 16 42 | 4 19 | 23 15 | 0 13 | 2 42 | 0 30 | 23 6 | 0 11 | 22 6 | 1 11 | 16 57 | 0 43 | 21 47 | 0 41 | 17 16 | 6 8 | 17 8 | 16 47 | 19 44 | 9 40 | 7 7 |
| T 10 | 22 14 | 18 12 | 0 33 | 16 39 | 4 29 | 23 18 | 0 11 | 2 28 | 0 29 | 23 7 | 0 11 | 22 6 | 1 11 | 16 58 | 0 43 | 21 48 | 0 41 | 17 16 | 6 8 | 17 9 | 16 48 | 19 44 | 9 40 | 7 7 |
| F 11 | 22 6 | 15 57 | 0s32 | 16 37 | 4 37 | 23 19 | 0 8 | 2 13 | 0 28 | 23 7 | 0 11 | 22 6 | 1 11 | 16 58 | 0 43 | 21 48 | 0 41 | 17 16 | 6 8 | 17 9 | 16 49 | 19 44 | 9 41 | 7 7 |
| S 12 | 21 58 | 13 0 | 1 36 | 16 37 | 4 44 | 23 20 | 0 6 | 1 59 | 0 27 | 23 8 | 0 11 | 22 6 | 1 11 | 16 59 | 0 43 | 21 48 | 0 41 | 17 16 | 6 8 | 17 9 | 16 50 | 19 44 | 9 42 | 7 8 |
| S 13 | 21 49 | 9 29 | 2 37 | 16 39 | 4 49 | 23 20 | 0 3 | 1 44 | 0 26 | 23 9 | 0 11 | 22 6 | 1 11 | 16 59 | 0 43 | 21 48 | 0 41 | 17 16 | 6 8 | 17 8 | 16 50 | 19 43 | 9 42 | 7 8 |
| M14 | 21 40 | 5 32 | 3 31 | 16 42 | 4 53 | 23 20 | 0 1 | 1 29 | 0 25 | 23 10 | 0 11 | 22 6 | 1 11 | 17 0 | 0 43 | 21 48 | 0 41 | 17 16 | 6 8 | 17 8 | 16 51 | 19 43 | 9 43 | 7 8 |
| T 15 | 21 31 | 1 17 | 4 17 | 16 46 | 4 55 | 23 19 | 0n 2 | 1 14 | 0 24 | 23 11 | 0 11 | 22 6 | 1 11 | 17 1 | 0 43 | 21 49 | 0 41 | 17 16 | 6 8 | 17 7 | 16 52 | 19 43 | 9 44 | 7 8 |
| W16 | 21 21 | 3n 7 | 4 52 | 16 52 | 4 55 | 23 17 | 0 4 | 0 59 | 0 23 | 23 11 | 0 12 | 22 6 | 1 10 | 17 1 | 0 43 | 21 49 | 0 41 | 17 16 | 6 8 | 17 7 | 16 53 | 19 42 | 9 44 | 7 8 |
| T 17 | 21 11 | 7 30 | 5 12 | 17 0 | 4 54 | 23 14 | 0 7 | 0 44 | 0 22 | 23 12 | 0 12 | 22 6 | 1 10 | 17 2 | 0 43 | 21 49 | 0 41 | 17 16 | 6 8 | 17 7 | 16 54 | 19 42 | 9 45 | 7 8 |
| F 18 | 21 1 | 11 39 | 5 16 | 17 8 | 4 51 | 23 11 | 0 9 | 0 29 | 0 21 | 23 13 | 0 12 | 22 5 | 1 10 | 17 3 | 0 43 | 21 49 | 0 41 | 17 16 | 6 8 | 17 7 | 16 55 | 19 42 | 9 46 | 7 9 |
| S 19 | 20 50 | 15 19 | 5 1 | 17 17 | 4 46 | 23 7 | 0 12 | 0 14 | 0 20 | 23 14 | 0 12 | 22 5 | 1 10 | 17 3 | 0 43 | 21 50 | 0 41 | 17 16 | 6 8 | 17 8 | 16 56 | 19 41 | 9 46 | 7 9 |
| S 20 | 20 39 | 18 9 | 4 28 | 17 28 | 4 40 | 23 2 | 0 14 | 0s 1 | 0 19 | 23 14 | 0 12 | 22 5 | 1 10 | 17 4 | 0 43 | 21 50 | 0 41 | 17 16 | 6 8 | 17 8 | 16 57 | 19 41 | 9 47 | 7 9 |
| M21 | 20 27 | 19 53 | 3 36 | 17 39 | 4 32 | 22 57 | 0 17 | 0 16 | 0 18 | 23 15 | 0 12 | 22 5 | 1 10 | 17 5 | 0 43 | 21 50 | 0 41 | 17 16 | 6 8 | 17 9 | 16 58 | 19 41 | 9 48 | 7 9 |
| T 22 | 20 15 | 20 14 | 2 28 | 17 51 | 4 23 | 22 51 | 0 19 | 0 31 | 0 17 | 23 16 | 0 12 | 22 5 | 1 9 | 17 5 | 0 43 | 21 50 | 0 41 | 17 16 | 6 8 | 17 9 | 16 59 | 19 40 | 9 49 | 7 9 |
| W23 | 20 3 | 19 8 | 1 9 | 18 4 | 4 12 | 22 45 | 0 21 | 0 46 | 0 16 | 23 16 | 0 12 | 22 5 | 1 9 | 17 6 | 0 43 | 21 50 | 0 41 | 17 16 | 6 8 | 17 9 | 16 59 | 19 40 | 9 49 | 7 9 |
| T 24 | 19 50 | 16 39 | 0n14 | 18 17 | 4 0 | 22 37 | 0 24 | 1 1 | 0 15 | 23 17 | 0 13 | 22 5 | 1 9 | 17 7 | 0 43 | 21 51 | 0 41 | 17 16 | 6 8 | 17 9 | 17 0 | 19 40 | 9 50 | 7 9 |
| F 25 | 19 38 | 13 4 | 1 36 | 18 30 | 3 48 | 22 29 | 0 26 | 1 16 | 0 15 | 23 18 | 0 13 | 22 5 | 1 9 | 17 8 | 0 43 | 21 51 | 0 41 | 17 16 | 6 8 | 17 9 | 17 1 | 19 39 | 9 51 | 7 9 |
| S 26 | 19 24 | 8 45 | 2 49 | 18 43 | 3 34 | 22 21 | 0 28 | 1 32 | 0 14 | 23 18 | 0 13 | 22 5 | 1 9 | 17 8 | 0 43 | 21 51 | 0 41 | 17 16 | 6 9 | 17 9 | 17 2 | 19 39 | 9 52 | 7 9 |
| S 27 | 19 11 | 4 4 | 3 50 | 18 56 | 3 20 | 22 11 | 0 31 | 1 47 | 0 13 | 23 19 | 0 13 | 22 5 | 1 9 | 17 9 | 0 43 | 21 51 | 0 41 | 17 16 | 6 9 | 17 9 | 17 3 | 19 39 | 9 53 | 7 9 |
| M28 | 18 57 | 0s42 | 4 36 | 19 9 | 3 5 | 22 1 | 0 33 | 2 2 | 0 12 | 23 20 | 0 13 | 22 5 | 1 9 | 17 10 | 0 43 | 21 51 | 0 41 | 17 16 | 6 9 | 17 9 | 17 4 | 19 38 | 9 54 | 7 9 |
| T 29 | 18 43 | 5 16 | 5 5 | 19 22 | 2 49 | 21 51 | 0 35 | 2 17 | 0 11 | 23 20 | 0 13 | 22 5 | 1 8 | 17 10 | 0 43 | 21 52 | 0 41 | 17 16 | 6 9 | 17 9 | 17 5 | 19 38 | 9 54 | 7 9 |
| W30 | 18 28 | 9 27 | 5 17 | 19 33 | 2 34 | 21 40 | 0 37 | 2 33 | 0 10 | 23 21 | 0 13 | 22 5 | 1 8 | 17 11 | 0 43 | 21 52 | 0 41 | 17 16 | 6 9 | 17 9 | 17 6 | 19 38 | 9 55 | 7 9 |
| T 31 | 18n13 | 13s 6 | 5n14 | 19n44 | 2s18 | 21n28 | 0n39 | 2s48 | 0n 9 | 23s21 | 0s13 | 22s 5 | 1n 8 | 17s12 | 0s43 | 21s52 | 0n41 | 17n16 | 6s 9 | 17n 9 | 17n 7 | 19s37 | 9s56 | 7n 9 |

Julian Day Number = 2329005.5, Delta T = 33.34 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'26, Lahiri = 19°10'27Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## AUGUST 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 41 8 | 9♌14'58 | 3♐45 | 20♋30 | 28♋ 7 | 8♎ 1 | 9°R32 | 21°R40 | 14°R28 | 15°R47 | 25♊55 | 12°R16 | 12♌21 | 25♑25 | 13°R27 | F 1 |
| S 2 | 20 45 4 | 10°12'27 | 15°52 | 21°17 | 29°21 | 8°38 | 9♑26 | 21♐37 | 14♒25 | 15♑46 | 25°56 | 12♌16 | 12°18 | 25°32 | 13♒23 | S 2 |
| S 3 | 20 49 1 | 11° 9'57 | 27°49 | 22° 9 | 0♌35 | 9°15 | 9°21 | 21°35 | 14°23 | 15°44 | 25°57 | 12°16 | 12°15 | 25°39 | 13°20 | S 3 |
| M 4 | 20 52 57 | 12° 7'28 | 9♑40 | 23° 8 | 1°49 | 9°52 | 9°15 | 21°33 | 14°21 | 15°43 | 25°58 | 12°D16 | 12°12 | 25°45 | 13°17 | M 4 |
| T 5 | 20 56 54 | 13° 5'00 | 21°29 | 24°13 | 3° 2 | 10°30 | 9°10 | 21°31 | 14°18 | 15°41 | 25°59 | 12°16 | 12° 8 | 25°52 | 13°14 | T 5 |
| W 6 | 21 0 50 | 14° 2'32 | 3♒17 | 25°24 | 4°16 | 11° 7 | 9° 5 | 21°30 | 14°16 | 15°40 | 26° 0 | 12°16 | 12° 5 | 25°59 | 13°11 | W 6 |
| T 7 | 21 4 47 | 15° 0'06 | 15° 8 | 26°41 | 5°30 | 11°45 | 9° 0 | 21°28 | 14°13 | 15°39 | 26° 1 | 12°R16 | 12° 2 | 26° 5 | 13° 7 | T 7 |
| F 8 | 21 8 44 | 15°57'42 | 27° 3 | 28° 3 | 6°44 | 12°22 | 8°55 | 21°26 | 14°11 | 15°37 | 26° 2 | 12°16 | 11°59 | 26°12 | 13° 4 | F 8 |
| S 9 | 21 12 40 | 16°55'18 | 9♓ 6 | 29°30 | 7°58 | 13° 0 | 8°50 | 21°25 | 14° 9 | 15°36 | 26° 3 | 12°16 | 11°56 | 26°18 | 13° 1 | S 9 |
| S 10 | 21 16 37 | 17°52'56 | 21°17 | 1♌ 2 | 9°12 | 13°37 | 8°46 | 21°23 | 14° 6 | 15°35 | 26° 4 | 12°15 | 11°52 | 26°25 | 12°58 | S 10 |
| M11 | 21 20 33 | 18°50'35 | 3♈39 | 2°38 | 10°26 | 14°15 | 8°42 | 21°22 | 14° 4 | 15°33 | 26° 5 | 12°14 | 11°49 | 26°32 | 12°55 | M11 |
| T 12 | 21 24 30 | 19°48'15 | 16°15 | 4°18 | 11°40 | 14°53 | 8°37 | 21°20 | 14° 2 | 15°32 | 26° 6 | 12°13 | 11°46 | 26°38 | 12°51 | T 12 |
| W13 | 21 28 26 | 20°45'58 | 29° 6 | 6° 2 | 12°54 | 15°31 | 8°33 | 21°19 | 13°59 | 15°31 | 26° 7 | 12°13 | 11°43 | 26°45 | 12°48 | W13 |
| T 14 | 21 32 23 | 21°43'41 | 12♉16 | 7°50 | 14° 8 | 16° 9 | 8°30 | 21°18 | 13°57 | 15°30 | 26° 8 | 12°12 | 11°40 | 26°52 | 12°45 | T 14 |
| F 15 | 21 36 19 | 22°41'27 | 25°46 | 9°40 | 15°22 | 16°48 | 8°26 | 21°17 | 13°54 | 15°28 | 26° 8 | 12°D12 | 11°37 | 26°58 | 12°42 | F 15 |
| S 16 | 21 40 16 | 23°39'14 | 9♊37 | 11°33 | 16°37 | 17°26 | 8°22 | 21°16 | 13°52 | 15°27 | 26° 9 | 12°12 | 11°33 | 27° 5 | 12°39 | S 16 |
| S 17 | 21 44 13 | 24°37'03 | 23°49 | 13°27 | 17°51 | 18° 4 | 8°19 | 21°15 | 13°50 | 15°26 | 26°10 | 12°13 | 11°30 | 27°12 | 12°36 | S 17 |
| M18 | 21 48 9 | 25°34'54 | 8♋21 | 15°23 | 19° 5 | 18°43 | 8°16 | 21°15 | 13°47 | 15°25 | 26°11 | 12°14 | 11°27 | 27°18 | 12°33 | M18 |
| T 19 | 21 52 6 | 26°32'47 | 23° 9 | 17°21 | 20°19 | 19°21 | 8°13 | 21°14 | 13°45 | 15°24 | 26°12 | 12°15 | 11°24 | 27°25 | 12°29 | T 19 |
| W20 | 21 56 2 | 27°30'41 | 8♌ 6 | 19°19 | 21°33 | 20° 0 | 8°10 | 21°13 | 13°43 | 15°23 | 26°13 | 12°R15 | 11°21 | 27°32 | 12°26 | W20 |
| T 21 | 21 59 59 | 28°28'37 | 23° 7 | 21°18 | 22°48 | 20°39 | 8° 8 | 21°13 | 13°40 | 15°22 | 26°13 | 12°15 | 11°18 | 27°38 | 12°23 | T 21 |
| F 22 | 22 3 55 | 29°26'35 | 8♍ 1 | 23°17 | 24° 2 | 21°18 | 8° 5 | 21°13 | 13°38 | 15°20 | 26°14 | 12°14 | 11°14 | 27°45 | 12°20 | F 22 |
| S 23 | 22 7 52 | 0♍24'33 | 22°41 | 25°16 | 25°16 | 21°57 | 8° 3 | 21°12 | 13°36 | 15°19 | 26°15 | 12°12 | 11°11 | 27°52 | 12°17 | S 23 |
| S 24 | 22 11 48 | 1°22'34 | 7♎ 1 | 27°15 | 26°31 | 22°36 | 8° 1 | 21°12 | 13°34 | 15°18 | 26°16 | 12°10 | 11° 8 | 27°58 | 12°14 | S 24 |
| M25 | 22 15 45 | 2°20'35 | 20°56 | 29°13 | 27°45 | 23°15 | 7°59 | 21°D12 | 13°31 | 15°17 | 26°16 | 12° 7 | 11° 5 | 28° 5 | 12°11 | M25 |
| T 26 | 22 19 41 | 3°18'39 | 4♏25 | 1♍11 | 29° 0 | 23°54 | 7°58 | 21°12 | 13°29 | 15°17 | 26°17 | 12° 5 | 11° 2 | 28°11 | 12° 9 | T 26 |
| W27 | 22 23 38 | 4°16'43 | 17°27 | 3° 8 | 0♍14 | 24°33 | 7°56 | 21°12 | 13°27 | 15°16 | 26°18 | 12° 3 | 10°58 | 28°18 | 12° 6 | W27 |
| T 28 | 22 27 35 | 5°14'49 | 0♐ 7 | 5° 4 | 1°28 | 25°13 | 7°55 | 21°12 | 13°25 | 15°15 | 26°18 | 12°D 2 | 10°55 | 28°25 | 12° 3 | T 28 |
| F 29 | 22 31 31 | 6°12'57 | 12°27 | 6°59 | 2°43 | 25°52 | 7°54 | 21°13 | 13°23 | 15°14 | 26°19 | 12° 2 | 10°52 | 28°31 | 12° 0 | F 29 |
| S 30 | 22 35 28 | 7°11'06 | 24°31 | 8°54 | 3°57 | 26°32 | 7°53 | 21°13 | 13°21 | 15°13 | 26°19 | 12° 3 | 10°49 | 28°38 | 11°57 | S 30 |
| S 31 | 22 39 24 | 8♍ 9'16 | 6♑26 | 10♍47 | 5♍12 | 27♎11 | 7♑52 | 21♐14 | 13♒19 | 15♑12 | 26♊20 | 12♌ 5 | 10♌46 | 28♑45 | 11♒54 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17n58 | 16s 6 | 4n56 | 19n55 | 2s 2 | 21n15 | 0n42 | 3s 4 | 0n 8 | 23s22 | 0s14 | 22s 5 | 1n 8 | 17s12 | 0s43 | 21s52 | 0n41 | 17n16 | 6s 9 | 17n 9 | 17n 8 | 19s37 | 9s57 | 7n 9 |
| S 2 | 17 43 | 18 20 | 4 25 | 20 3 | 1 46 | 21 2 | 0 44 | 3 19 | 0 8 | 23 22 | 0 14 | 22 5 | 1 8 | 17 13 | 0 43 | 21 52 | 0 41 | 17 16 | 6 9 | 17 9 | 17 8 | 19 37 | 9 58 | 7 9 |
| S 3 | 17 27 | 19 45 | 3 43 | 20 11 | 1 30 | 20 48 | 0 46 | 3 34 | 0 7 | 23 23 | 0 14 | 22 5 | 1 8 | 17 14 | 0 43 | 21 52 | 0 41 | 17 16 | 6 9 | 17 9 | 17 9 | 19 36 | 9 59 | 7 9 |
| M 4 | 17 11 | 20 17 | 2 52 | 20 17 | 1 14 | 20 34 | 0 48 | 3 50 | 0 6 | 23 23 | 0 14 | 22 5 | 1 7 | 17 15 | 0 43 | 21 53 | 0 41 | 17 16 | 6 9 | 17 9 | 17 10 | 19 36 | 10 0 | 7 9 |
| T 5 | 16 55 | 19 54 | 1 53 | 20 21 | 0 58 | 20 19 | 0 50 | 4 5 | 0 5 | 23 24 | 0 14 | 22 5 | 1 7 | 17 15 | 0 43 | 21 53 | 0 41 | 17 16 | 6 9 | 17 9 | 17 11 | 19 35 | 10 1 | 7 9 |
| W 6 | 16 39 | 18 39 | 0 50 | 20 24 | 0 43 | 20 4 | 0 52 | 4 21 | 0 4 | 23 24 | 0 14 | 22 6 | 1 7 | 17 16 | 0 43 | 21 53 | 0 41 | 17 16 | 6 9 | 17 9 | 17 12 | 19 35 | 10 2 | 7 9 |
| T 7 | 16 22 | 16 35 | 0s16 | 20 24 | 0 28 | 19 48 | 0 53 | 4 36 | 0 3 | 23 25 | 0 14 | 22 6 | 1 7 | 17 17 | 0 43 | 21 53 | 0 41 | 17 16 | 6 9 | 17 9 | 17 13 | 19 35 | 10 2 | 7 9 |
| F 8 | 16 5 | 13 47 | 1 21 | 20 22 | 0 14 | 19 31 | 0 55 | 4 51 | 0 2 | 23 25 | 0 14 | 22 6 | 1 7 | 17 17 | 0 43 | 21 53 | 0 41 | 17 16 | 6 9 | 17 9 | 17 14 | 19 34 | 10 3 | 7 9 |
| S 9 | 15 47 | 10 23 | 2 24 | 20 17 | 0 0 | 19 14 | 0 57 | 5 7 | 0 2 | 23 26 | 0 14 | 22 6 | 1 7 | 17 18 | 0 43 | 21 54 | 0 41 | 17 16 | 6 9 | 17 9 | 17 15 | 19 34 | 10 4 | 7 9 |
| S 10 | 15 30 | 6 32 | 3 20 | 20 11 | 0n13 | 18 56 | 0 59 | 5 22 | 0 1 | 23 26 | 0 15 | 22 6 | 1 6 | 17 19 | 0 43 | 21 54 | 0 41 | 17 16 | 6 9 | 17 9 | 17 16 | 19 33 | 10 5 | 7 9 |
| M11 | 15 12 | 2 21 | 4 8 | 20 1 | 0 25 | 18 38 | 1 1 | 5 38 | 0 0 | 23 26 | 0 15 | 22 6 | 1 6 | 17 19 | 0 43 | 21 54 | 0 41 | 17 16 | 6 9 | 17 9 | 17 16 | 19 33 | 10 6 | 7 9 |
| T 12 | 14 54 | 2n 1 | 4 45 | 19 49 | 0 37 | 18 19 | 1 2 | 5 53 | 0s 1 | 23 27 | 0 15 | 22 6 | 1 6 | 17 20 | 0 43 | 21 54 | 0 41 | 17 16 | 6 9 | 17 10 | 17 17 | 19 33 | 10 7 | 7 9 |
| W13 | 14 36 | 6 21 | 5 9 | 19 34 | 0 47 | 17 59 | 1 4 | 6 9 | 0 2 | 23 27 | 0 15 | 22 6 | 1 6 | 17 21 | 0 43 | 21 54 | 0 41 | 17 16 | 6 9 | 17 10 | 17 18 | 19 32 | 10 8 | 7 9 |
| T 14 | 14 17 | 10 30 | 5 17 | 19 16 | 0 57 | 17 39 | 1 5 | 6 24 | 0 2 | 23 27 | 0 15 | 22 6 | 1 6 | 17 21 | 0 43 | 21 54 | 0 41 | 17 16 | 6 9 | 17 10 | 17 19 | 19 32 | 10 9 | 7 9 |
| F 15 | 13 59 | 14 14 | 5 8 | 18 55 | 1 6 | 17 19 | 1 7 | 6 40 | 0 3 | 23 28 | 0 15 | 22 6 | 1 6 | 17 22 | 0 43 | 21 55 | 0 41 | 17 16 | 6 10 | 17 10 | 17 20 | 19 31 | 10 10 | 7 8 |
| S 16 | 13 40 | 17 17 | 4 42 | 18 32 | 1 14 | 16 58 | 1 8 | 6 55 | 0 4 | 23 28 | 0 15 | 22 6 | 1 5 | 17 23 | 0 43 | 21 55 | 0 41 | 17 16 | 6 10 | 17 10 | 17 21 | 19 31 | 10 11 | 7 8 |
| S 17 | 13 20 | 19 23 | 3 58 | 18 7 | 1 21 | 16 37 | 1 10 | 7 10 | 0 5 | 23 28 | 0 15 | 22 7 | 1 5 | 17 24 | 0 43 | 21 55 | 0 41 | 17 16 | 6 10 | 17 10 | 17 22 | 19 30 | 10 12 | 7 8 |
| M18 | 13 1 | 20 16 | 2 57 | 17 38 | 1 27 | 16 15 | 1 11 | 7 26 | 0 6 | 23 29 | 0 15 | 22 7 | 1 5 | 17 24 | 0 43 | 21 55 | 0 41 | 17 16 | 6 10 | 17 10 | 17 23 | 19 30 | 10 13 | 7 8 |
| T 19 | 12 41 | 19 47 | 1 44 | 17 8 | 1 33 | 15 53 | 1 12 | 7 41 | 0 6 | 23 29 | 0 15 | 22 7 | 1 5 | 17 25 | 0 43 | 21 55 | 0 41 | 17 16 | 6 10 | 17 9 | 17 23 | 19 29 | 10 14 | 7 8 |
| W20 | 12 21 | 17 54 | 0 23 | 16 35 | 1 37 | 15 30 | 1 13 | 7 57 | 0 7 | 23 29 | 0 16 | 22 7 | 1 5 | 17 26 | 0 43 | 21 55 | 0 40 | 17 16 | 6 10 | 17 9 | 17 24 | 19 29 | 10 15 | 7 8 |
| T 21 | 12 1 | 14 47 | 1n 0 | 16 1 | 1 41 | 15 7 | 1 15 | 8 12 | 0 8 | 23 29 | 0 16 | 22 7 | 1 4 | 17 26 | 0 43 | 21 56 | 0 40 | 17 16 | 6 10 | 17 9 | 17 25 | 19 29 | 10 16 | 7 8 |
| F 22 | 11 41 | 10 42 | 2 18 | 15 24 | 1 43 | 14 43 | 1 16 | 8 27 | 0 9 | 23 30 | 0 16 | 22 7 | 1 4 | 17 27 | 0 43 | 21 56 | 0 40 | 17 16 | 6 10 | 17 9 | 17 26 | 19 28 | 10 17 | 7 7 |
| S 23 | 11 21 | 6 3 | 3 25 | 14 46 | 1 45 | 14 19 | 1 17 | 8 43 | 0 9 | 23 30 | 0 16 | 22 7 | 1 4 | 17 27 | 0 43 | 21 56 | 0 40 | 17 16 | 6 10 | 17 10 | 17 27 | 19 28 | 10 18 | 7 7 |
| S 24 | 11 0 | 1 10 | 4 18 | 14 7 | 1 46 | 13 55 | 1 18 | 8 58 | 0 10 | 23 30 | 0 16 | 22 8 | 1 4 | 17 28 | 0 43 | 21 56 | 0 40 | 17 16 | 6 10 | 17 11 | 17 28 | 19 27 | 10 19 | 7 7 |
| M25 | 10 39 | 3s38 | 4 54 | 13 26 | 1 47 | 13 30 | 1 19 | 9 13 | 0 11 | 23 30 | 0 16 | 22 8 | 1 4 | 17 29 | 0 43 | 21 56 | 0 40 | 17 16 | 6 10 | 17 11 | 17 29 | 19 27 | 10 20 | 7 7 |
| T 26 | 10 19 | 8 6 | 5 13 | 12 44 | 1 46 | 13 5 | 1 19 | 9 28 | 0 12 | 23 31 | 0 16 | 22 8 | 1 4 | 17 29 | 0 43 | 21 56 | 0 40 | 17 16 | 6 10 | 17 12 | 17 30 | 19 26 | 10 21 | 7 7 |
| W27 | 9 57 | 12 3 | 5 14 | 12 1 | 1 45 | 12 40 | 1 20 | 9 43 | 0 12 | 23 31 | 0 16 | 22 8 | 1 3 | 17 30 | 0 43 | 21 56 | 0 40 | 17 15 | 6 10 | 17 13 | 17 30 | 19 26 | 10 22 | 7 6 |
| T 28 | 9 36 | 15 19 | 5 0 | 11 17 | 1 44 | 12 14 | 1 21 | 9 59 | 0 13 | 23 31 | 0 16 | 22 8 | 1 3 | 17 31 | 0 43 | 21 56 | 0 40 | 17 15 | 6 11 | 17 13 | 17 31 | 19 25 | 10 23 | 7 6 |
| F 29 | 9 15 | 17 50 | 4 32 | 10 32 | 1 42 | 11 48 | 1 22 | 10 14 | 0 14 | 23 31 | 0 16 | 22 8 | 1 3 | 17 31 | 0 43 | 21 57 | 0 40 | 17 15 | 6 11 | 17 13 | 17 32 | 19 25 | 10 24 | 7 6 |
| S 30 | 8 53 | 19 29 | 3 53 | 9 47 | 1 39 | 11 21 | 1 22 | 10 29 | 0 15 | 23 31 | 0 16 | 22 9 | 1 3 | 17 32 | 0 43 | 21 57 | 0 40 | 17 15 | 6 11 | 17 13 | 17 33 | 19 24 | 10 25 | 7 6 |
| S 31 | 8n32 | 20s16 | 3n 4 | 9n 1 | 1n36 | 10n54 | 1n23 | 10s44 | 0s15 | 23s31 | 0s16 | 22s 9 | 1n 3 | 17s32 | 0s43 | 21s57 | 0n40 | 17n15 | 6s11 | 17n12 | 17n34 | 19s24 | 10s26 | 7n 5 |

Julian Day Number = 2329036.5, Delta T = 33.29 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'30, Lahiri = 19°10'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## SEPTEMBER 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 43 21 | 9♍ 7'28 | 18♉15 | 12♍39 | 6♍26 | 27♎51 | 7°R52 | 21♐14 | 13°R16 | 15°R11 | 26♊21 | 12♌ 6 | 10♌43 | 28♉51 | 11°R52 | M 1 |
| T 2 | 22 47 17 | 10° 5'42 | 0♒ 3 | 14°30 | 7°41 | 28°31 | 7♉51 | 21°15 | 13♒14 | 15♉11 | 26°21 | 12° 8 | 10°39 | 28°58 | 11♒49 | T 2 |
| W 3 | 22 51 14 | 11° 3'57 | 11°53 | 16°20 | 8°55 | 29°11 | 7°D51 | 21°16 | 13°12 | 15°10 | 26°22 | 12°R 8 | 10°36 | 29° 5 | 11°46 | W 3 |
| T 4 | 22 55 10 | 12° 2'14 | 23°50 | 18° 8 | 10°10 | 29°51 | 7°51 | 21°17 | 13°10 | 15° 9 | 26°22 | 12° 8 | 10°33 | 29°11 | 11°44 | T 4 |
| F 5 | 22 59 7 | 13° 0'32 | 5♓55 | 19°56 | 11°24 | 0♏31 | 7°52 | 21°18 | 13° 8 | 15° 8 | 26°23 | 12° 6 | 10°30 | 29°18 | 11°41 | F 5 |
| S 6 | 23 3 4 | 13°58'53 | 18°10 | 21°42 | 12°39 | 1°11 | 7°52 | 21°19 | 13° 6 | 15° 8 | 26°23 | 12° 2 | 10°27 | 29°25 | 11°39 | S 6 |
| S 7 | 23 7 0 | 14°57'15 | 0♈37 | 23°28 | 13°54 | 1°51 | 7°53 | 21°20 | 13° 4 | 15° 7 | 26°23 | 11°57 | 10°23 | 29°31 | 11°36 | S 7 |
| M 8 | 23 10 57 | 15°55'39 | 13°16 | 25°12 | 15° 8 | 2°32 | 7°53 | 21°21 | 13° 3 | 15° 7 | 26°24 | 11°51 | 10°20 | 29°38 | 11°34 | M 8 |
| T 9 | 23 14 53 | 16°54'05 | 26° 8 | 26°55 | 16°23 | 3°12 | 7°55 | 21°23 | 13° 1 | 15° 6 | 26°24 | 11°46 | 10°17 | 29°45 | 11°31 | T 9 |
| W10 | 23 18 50 | 17°52'33 | 9♉14 | 28°37 | 17°38 | 3°52 | 7°56 | 21°24 | 12°59 | 15° 5 | 26°25 | 11°40 | 10°14 | 29°51 | 11°29 | W10 |
| T 11 | 23 22 46 | 18°51'04 | 22°33 | 0♎18 | 18°52 | 4°33 | 7°57 | 21°26 | 12°57 | 15° 5 | 26°25 | 11°36 | 10°11 | 29°58 | 11°27 | T 11 |
| F 12 | 23 26 43 | 19°49'36 | 6♊ 6 | 1°58 | 20° 7 | 5°14 | 7°59 | 21°27 | 12°55 | 15° 4 | 26°25 | 11°34 | 10° 8 | 0♒ 4 | 11°24 | F 12 |
| S 13 | 23 30 39 | 20°48'11 | 19°53 | 3°37 | 21°22 | 5°54 | 8° 1 | 21°29 | 12°54 | 15° 4 | 26°26 | 11°D33 | 10° 4 | 0°11 | 11°22 | S 13 |
| S 14 | 23 34 36 | 21°46'48 | 3♋54 | 5°14 | 22°36 | 6°35 | 8° 3 | 21°31 | 12°52 | 15° 4 | 26°26 | 11°33 | 10° 1 | 0°18 | 11°20 | S 14 |
| M15 | 23 38 33 | 22°45'28 | 18° 9 | 6°51 | 23°51 | 7°16 | 8° 5 | 21°33 | 12°50 | 15° 3 | 26°26 | 11°35 | 9°58 | 0°24 | 11°18 | M15 |
| T 16 | 23 42 29 | 23°44'09 | 2♌35 | 8°27 | 25° 6 | 7°57 | 8° 7 | 21°35 | 12°49 | 15° 3 | 26°26 | 11°36 | 9°55 | 0°31 | 11°16 | T 16 |
| W17 | 23 46 26 | 24°42'53 | 17°10 | 10° 2 | 26°21 | 8°38 | 8°10 | 21°37 | 12°47 | 15° 3 | 26°27 | 11°R36 | 9°52 | 0°38 | 11°14 | W17 |
| T 18 | 23 50 22 | 25°41'39 | 1♍49 | 11°36 | 27°35 | 9°19 | 8°12 | 21°39 | 12°45 | 15° 2 | 26°27 | 11°34 | 9°49 | 0°44 | 11°12 | T 18 |
| F 19 | 23 54 19 | 26°40'27 | 16°26 | 13° 9 | 28°50 | 10° 0 | 8°15 | 21°42 | 12°44 | 15° 2 | 26°27 | 11°31 | 9°45 | 0°51 | 11°10 | F 19 |
| S 20 | 23 58 15 | 27°39'17 | 0♎54 | 14°41 | 0♎ 5 | 10°42 | 8°18 | 21°44 | 12°42 | 15° 2 | 26°27 | 11°25 | 9°42 | 0°58 | 11° 8 | S 20 |
| S 21 | 0 2 12 | 28°38'10 | 15° 7 | 16°12 | 1°20 | 11°23 | 8°22 | 21°47 | 12°41 | 15° 2 | 26°27 | 11°17 | 9°39 | 1° 4 | 11° 6 | S 21 |
| M22 | 0 6 8 | 29°37'04 | 29° 0 | 17°42 | 2°35 | 12° 4 | 8°25 | 21°49 | 12°40 | 15° 1 | 26°27 | 11° 9 | 9°36 | 1°11 | 11° 4 | M22 |
| T 23 | 0 10 5 | 0♎36'00 | 12♏29 | 19°11 | 3°50 | 12°46 | 8°29 | 21°52 | 12°38 | 15° 1 | 26°27 | 11° 2 | 9°33 | 1°18 | 11° 3 | T 23 |
| W24 | 0 14 1 | 1°34'57 | 25°34 | 20°40 | 5° 4 | 13°28 | 8°33 | 21°55 | 12°37 | 15° 1 | 26°27 | 10°55 | 9°29 | 1°24 | 11° 1 | W24 |
| T 25 | 0 17 58 | 2°33'57 | 8♐15 | 22° 7 | 6°19 | 14° 9 | 8°37 | 21°58 | 12°36 | 15° 1 | 26°27 | 10°50 | 9°26 | 1°31 | 11° 0 | T 25 |
| F 26 | 0 21 55 | 3°32'59 | 20°36 | 23°33 | 7°34 | 14°51 | 8°41 | 22° 1 | 12°34 | 15°D 1 | 26°R27 | 10°47 | 9°23 | 1°38 | 10°58 | F 26 |
| S 27 | 0 25 51 | 4°32'02 | 2♑42 | 24°59 | 8°49 | 15°33 | 8°45 | 22° 4 | 12°33 | 15° 1 | 26°27 | 10°D46 | 9°20 | 1°44 | 10°57 | S 27 |
| S 28 | 0 29 48 | 5°31'07 | 14°36 | 26°23 | 10° 4 | 16°15 | 8°50 | 22° 7 | 12°32 | 15° 1 | 26°27 | 10°46 | 9°17 | 1°51 | 10°55 | S 28 |
| M29 | 0 33 44 | 6°30'14 | 26°25 | 27°46 | 11°19 | 16°57 | 8°54 | 22°10 | 12°31 | 15° 1 | 26°27 | 10°47 | 9°14 | 1°57 | 10°54 | M29 |
| T 30 | 0 37 41 | 7♎29'22 | 8♒13 | 29♎ 9 | 12♎34 | 17♏39 | 8♑59 | 22♐13 | 12♒30 | 15♑ 1 | 26♊27 | 10°R48 | 9♌10 | 2♒ 4 | 10♒52 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8n10 | 20s 8 | 2n 8 | 8n15 | 1n32 | 10n27 | 1n23 | 10s59 | 0s16 | 23s31 | 0s17 | 22s 9 | 1n 3 | 17s33 | 0s43 | 21s57 | 0n40 | 17n15 | 6s11 | 17n12 | 17n35 | 19s23 | 10s27 | 7n 5 |
| T 2 | 7 48 | 19 6 | 1 6 | 7 28 | 1 28 | 10 0 | 1 24 | 11 14 | 0 17 | 23 31 | 0 17 | 22 9 | 1 2 | 17 34 | 0 43 | 21 57 | 0 40 | 17 15 | 6 11 | 17 11 | 17 36 | 19 23 | 10 28 | 7 5 |
| W 3 | 7 26 | 17 14 | 0 1 | 6 42 | 1 24 | 9 32 | 1 24 | 11 28 | 0 17 | 23 32 | 0 17 | 22 10 | 1 2 | 17 34 | 0 43 | 21 57 | 0 40 | 17 15 | 6 11 | 17 11 | 17 37 | 19 22 | 10 29 | 7 5 |
| T 4 | 7 4 | 14 36 | 1s 4 | 5 55 | 1 19 | 9 4 | 1 24 | 11 43 | 0 18 | 23 32 | 0 17 | 22 10 | 1 2 | 17 35 | 0 43 | 21 57 | 0 40 | 17 15 | 6 11 | 17 11 | 17 37 | 19 22 | 10 30 | 7 4 |
| F 5 | 6 41 | 11 19 | 2 7 | 5 8 | 1 14 | 8 36 | 1 25 | 11 58 | 0 19 | 23 32 | 0 17 | 22 10 | 1 2 | 17 35 | 0 43 | 21 57 | 0 40 | 17 15 | 6 11 | 17 12 | 17 38 | 19 21 | 10 31 | 7 4 |
| S 6 | 6 19 | 7 31 | 3 4 | 4 21 | 1 9 | 8 8 | 1 25 | 12 13 | 0 20 | 23 32 | 0 17 | 22 10 | 1 2 | 17 36 | 0 43 | 21 58 | 0 40 | 17 15 | 6 11 | 17 13 | 17 39 | 19 21 | 10 32 | 7 4 |
| S 7 | 5 56 | 3 20 | 3 54 | 3 34 | 1 3 | 7 39 | 1 25 | 12 27 | 0 20 | 23 32 | 0 17 | 22 11 | 1 1 | 17 36 | 0 43 | 21 58 | 0 40 | 17 15 | 6 11 | 17 14 | 17 40 | 19 20 | 10 33 | 7 3 |
| M 8 | 5 34 | 1n 3 | 4 34 | 2 47 | 0 57 | 7 10 | 1 25 | 12 42 | 0 21 | 23 32 | 0 17 | 22 11 | 1 1 | 17 37 | 0 43 | 21 58 | 0 40 | 17 15 | 6 11 | 17 16 | 17 41 | 19 20 | 10 34 | 7 3 |
| T 9 | 5 11 | 5 27 | 5 0 | 2 1 | 0 51 | 6 41 | 1 25 | 12 56 | 0 22 | 23 32 | 0 17 | 22 11 | 1 1 | 17 37 | 0 43 | 21 58 | 0 40 | 17 15 | 6 12 | 17 17 | 17 42 | 19 19 | 10 35 | 7 3 |
| W10 | 4 48 | 9 41 | 5 11 | 1 14 | 0 45 | 6 12 | 1 25 | 13 11 | 0 22 | 23 32 | 0 17 | 22 11 | 1 1 | 17 38 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 19 | 17 43 | 19 19 | 10 36 | 7 2 |
| T 11 | 4 25 | 13 31 | 5 6 | 0 28 | 0 38 | 5 42 | 1 25 | 13 25 | 0 23 | 23 32 | 0 17 | 22 12 | 1 1 | 17 38 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 20 | 17 43 | 19 18 | 10 37 | 7 2 |
| F 12 | 4 2 | 16 43 | 4 43 | 0s18 | 0 32 | 5 13 | 1 24 | 13 40 | 0 24 | 23 32 | 0 17 | 22 12 | 1 1 | 17 39 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 21 | 17 44 | 19 17 | 10 38 | 7 2 |
| S 13 | 3 39 | 19 2 | 4 4 | 1 3 | 0 25 | 4 43 | 1 24 | 13 54 | 0 24 | 23 32 | 0 17 | 22 12 | 1 0 | 17 39 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 21 | 17 45 | 19 17 | 10 38 | 7 1 |
| S 14 | 3 16 | 20 15 | 3 10 | 1 49 | 0 18 | 4 13 | 1 24 | 14 8 | 0 25 | 23 32 | 0 18 | 22 12 | 1 0 | 17 40 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 21 | 17 46 | 19 16 | 10 39 | 7 1 |
| M15 | 2 53 | 20 12 | 2 4 | 2 34 | 0 11 | 3 43 | 1 23 | 14 22 | 0 26 | 23 32 | 0 18 | 22 13 | 1 0 | 17 40 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 21 | 17 47 | 19 16 | 10 40 | 7 1 |
| T 16 | 2 29 | 18 50 | 0 49 | 3 18 | 0 4 | 3 13 | 1 23 | 14 36 | 0 26 | 23 32 | 0 18 | 22 13 | 1 0 | 17 41 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 20 | 17 48 | 19 15 | 10 41 | 7 0 |
| W17 | 2 6 | 16 12 | 0n30 | 4 2 | 0s 3 | 2 43 | 1 22 | 14 50 | 0 27 | 23 31 | 0 18 | 22 13 | 1 0 | 17 41 | 0 43 | 21 58 | 0 40 | 17 14 | 6 12 | 17 20 | 17 49 | 19 15 | 10 42 | 7 0 |
| T 18 | 1 43 | 12 31 | 1 47 | 4 46 | 0 11 | 2 12 | 1 22 | 15 4 | 0 28 | 23 31 | 0 18 | 22 14 | 1 0 | 17 42 | 0 43 | 21 59 | 0 40 | 17 14 | 6 12 | 17 21 | 17 49 | 19 14 | 10 43 | 6 59 |
| F 19 | 1 19 | 8 5 | 2 57 | 5 29 | 0 18 | 1 42 | 1 21 | 15 17 | 0 28 | 23 31 | 0 18 | 22 14 | 0 59 | 17 42 | 0 43 | 21 59 | 0 40 | 17 14 | 6 12 | 17 22 | 17 50 | 19 13 | 10 44 | 6 59 |
| S 20 | 0 56 | 3 14 | 3 55 | 6 11 | 0 25 | 1 12 | 1 20 | 15 31 | 0 29 | 23 31 | 0 18 | 22 14 | 0 59 | 17 42 | 0 43 | 21 59 | 0 40 | 17 14 | 6 13 | 17 23 | 17 51 | 19 13 | 10 45 | 6 59 |
| S 21 | 0 33 | 1s43 | 4 37 | 6 53 | 0 33 | 0 41 | 1 19 | 15 44 | 0 30 | 23 31 | 0 18 | 22 15 | 0 59 | 17 43 | 0 43 | 21 59 | 0 40 | 17 13 | 6 13 | 17 25 | 17 52 | 19 12 | 10 46 | 6 58 |
| M22 | 0 9 | 6 27 | 5 1 | 7 35 | 0 40 | 0 10 | 1 18 | 15 58 | 0 30 | 23 31 | 0 18 | 22 15 | 0 59 | 17 43 | 0 43 | 21 59 | 0 39 | 17 13 | 6 13 | 17 27 | 17 53 | 19 12 | 10 46 | 6 58 |
| T 23 | 0s14 | 10 43 | 5 8 | 8 16 | 0 48 | 0s20 | 1 18 | 16 11 | 0 31 | 23 31 | 0 18 | 22 15 | 0 59 | 17 43 | 0 43 | 21 59 | 0 39 | 17 13 | 6 13 | 17 30 | 17 54 | 19 11 | 10 47 | 6 58 |
| W24 | 0 38 | 14 22 | 4 58 | 8 56 | 0 55 | 0 51 | 1 17 | 16 24 | 0 31 | 23 30 | 0 18 | 22 16 | 0 59 | 17 44 | 0 42 | 21 59 | 0 39 | 17 13 | 6 13 | 17 31 | 17 55 | 19 10 | 10 48 | 6 57 |
| T 25 | 1 1 | 17 13 | 4 33 | 9 36 | 1 2 | 1 22 | 1 16 | 16 37 | 0 32 | 23 30 | 0 18 | 22 16 | 0 58 | 17 44 | 0 42 | 21 59 | 0 39 | 17 13 | 6 13 | 17 33 | 17 55 | 19 10 | 10 49 | 6 57 |
| F 26 | 1 25 | 19 13 | 3 57 | 10 15 | 1 10 | 1 52 | 1 14 | 16 50 | 0 33 | 23 30 | 0 18 | 22 16 | 0 58 | 17 45 | 0 42 | 21 59 | 0 39 | 17 13 | 6 13 | 17 34 | 17 56 | 19 9 | 10 50 | 6 56 |
| S 27 | 1 48 | 20 17 | 3 10 | 10 53 | 1 17 | 2 23 | 1 13 | 17 3 | 0 33 | 23 30 | 0 18 | 22 17 | 0 58 | 17 45 | 0 42 | 21 59 | 0 39 | 17 13 | 6 13 | 17 34 | 17 57 | 19 9 | 10 51 | 6 56 |
| S 28 | 2 12 | 20 25 | 2 16 | 11 30 | 1 24 | 2 53 | 1 12 | 17 16 | 0 34 | 23 30 | 0 18 | 22 17 | 0 58 | 17 45 | 0 42 | 21 59 | 0 39 | 17 13 | 6 13 | 17 34 | 17 58 | 19 8 | 10 51 | 6 55 |
| M29 | 2 35 | 19 39 | 1 17 | 12 7 | 1 31 | 3 24 | 1 11 | 17 29 | 0 34 | 23 29 | 0 18 | 22 17 | 0 58 | 17 45 | 0 42 | 21 59 | 0 39 | 17 13 | 6 13 | 17 34 | 17 59 | 19 7 | 10 52 | 6 55 |
| T 30 | 2s59 | 18s 1 | 0n14 | 12s43 | 1s38 | 3s54 | 1n 9 | 17s41 | 0s35 | 23s29 | 0s19 | 22s18 | 0n58 | 17s46 | 0s42 | 21s59 | 0n39 | 17n13 | 6s13 | 17n33 | 18n 0 | 19s 7 | 10s53 | 6n55 |

Julian Day Number = 2329067.5, Delta T = 33.23 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'35, Lahiri = 19°10'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## OCTOBER 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 41 37 | 8♎28'33 | 20♒ 6 | 0♏30 | 13♎49 | 18♏21 | 9♑ 4 | 22♐17 | 12°R29 | 15♑ 2 | 26°R27 | 10°R47 | 9♌ 7 | 2♒11 | 10°R51 | W 1 |
| T 2 | 0 45 34 | 9°27'45 | 2♓ 8 | 1°50 | 15° 4 | 19° 3 | 9°10 | 22°20 | 12♒28 | 15° 2 | 26♊27 | 10♌45 | 9° 4 | 2°17 | 10♒50 | T 2 |
| F 3 | 0 49 30 | 10°26'59 | 14°22 | 3° 9 | 16°18 | 19°46 | 9°15 | 22°24 | 12°27 | 15° 2 | 26°27 | 10°40 | 9° 1 | 2°24 | 10°49 | F 3 |
| S 4 | 0 53 27 | 11°26'15 | 26°51 | 4°26 | 17°33 | 20°28 | 9°21 | 22°27 | 12°26 | 15° 2 | 26°27 | 10°33 | 8°58 | 2°31 | 10°48 | S 4 |
| S 5 | 0 57 24 | 12°25'33 | 9♈36 | 5°42 | 18°48 | 21°10 | 9°26 | 22°31 | 12°25 | 15° 3 | 26°26 | 10°23 | 8°54 | 2°37 | 10°47 | S 5 |
| M 6 | 1 1 20 | 13°24'54 | 22°37 | 6°57 | 20° 3 | 21°53 | 9°32 | 22°35 | 12°24 | 15° 3 | 26°26 | 10°13 | 8°51 | 2°44 | 10°46 | M 6 |
| T 7 | 1 5 17 | 14°24'16 | 5♉52 | 8°11 | 21°18 | 22°36 | 9°38 | 22°39 | 12°24 | 15° 3 | 26°26 | 10° 1 | 8°48 | 2°51 | 10°45 | T 7 |
| W 8 | 1 9 13 | 15°23'40 | 19°20 | 9°22 | 22°33 | 23°18 | 9°44 | 22°43 | 12°23 | 15° 4 | 26°26 | 9°51 | 8°45 | 2°57 | 10°44 | W 8 |
| T 9 | 1 13 10 | 16°23'07 | 2♊59 | 10°32 | 23°48 | 24° 1 | 9°51 | 22°47 | 12°22 | 15° 4 | 26°25 | 9°42 | 8°42 | 3° 4 | 10°44 | T 9 |
| F 10 | 1 17 6 | 17°22'36 | 16°47 | 11°40 | 25° 3 | 24°44 | 9°57 | 22°51 | 12°22 | 15° 4 | 26°25 | 9°36 | 8°39 | 3°11 | 10°43 | F 10 |
| S 11 | 1 21 3 | 18°22'07 | 0♋41 | 12°46 | 26°18 | 25°27 | 10° 4 | 22°55 | 12°21 | 15° 5 | 26°25 | 9°33 | 8°35 | 3°17 | 10°42 | S 11 |
| S 12 | 1 24 59 | 19°21'41 | 14°41 | 13°50 | 27°33 | 26°10 | 10°11 | 22°59 | 12°21 | 15° 5 | 26°24 | 9°D32 | 8°32 | 3°24 | 10°42 | S 12 |
| M13 | 1 28 56 | 20°21'17 | 28°46 | 14°51 | 28°48 | 26°53 | 10°18 | 23° 4 | 12°20 | 15° 6 | 26°24 | 9°32 | 8°29 | 3°30 | 10°41 | M13 |
| T 14 | 1 32 53 | 21°20'55 | 12♌55 | 15°50 | 0♏ 3 | 27°36 | 10°25 | 23° 8 | 12°20 | 15° 7 | 26°24 | 9°R32 | 8°26 | 3°37 | 10°41 | T 14 |
| W15 | 1 36 49 | 22°20'36 | 27° 8 | 16°45 | 1°18 | 28°19 | 10°32 | 23°13 | 12°20 | 15° 7 | 26°23 | 9°31 | 8°23 | 3°44 | 10°41 | W15 |
| T 16 | 1 40 46 | 23°20'19 | 11♍21 | 17°38 | 2°33 | 29° 2 | 10°40 | 23°17 | 12°19 | 15° 8 | 26°23 | 9°27 | 8°20 | 3°50 | 10°40 | T 16 |
| F 17 | 1 44 42 | 24°20'04 | 25°32 | 18°26 | 3°48 | 29°45 | 10°47 | 23°22 | 12°19 | 15° 8 | 26°22 | 9°21 | 8°16 | 3°57 | 10°40 | F 17 |
| S 18 | 1 48 39 | 25°19'51 | 9♎37 | 19°11 | 5° 3 | 0♐29 | 10°55 | 23°27 | 12°19 | 15° 9 | 26°22 | 9°12 | 8°13 | 4° 4 | 10°40 | S 18 |
| S 19 | 1 52 35 | 26°19'40 | 23°31 | 19°51 | 6°18 | 1°12 | 11° 3 | 23°31 | 12°19 | 15°10 | 26°21 | 9° 1 | 8°10 | 4°10 | 10°D40 | S 19 |
| M20 | 1 56 32 | 27°19'32 | 7♏10 | 20°27 | 7°33 | 1°56 | 11°11 | 23°36 | 12°18 | 15°11 | 26°21 | 8°48 | 8° 7 | 4°17 | 10°40 | M20 |
| T 21 | 2 0 28 | 28°19'25 | 20°29 | 20°56 | 8°48 | 2°39 | 11°19 | 23°41 | 12°18 | 15°12 | 26°20 | 8°36 | 8° 4 | 4°24 | 10°40 | T 21 |
| W22 | 2 4 25 | 29°19'20 | 3♐29 | 21°20 | 10° 3 | 3°23 | 11°27 | 23°46 | 12°D18 | 15°12 | 26°20 | 8°24 | 8° 0 | 4°30 | 10°40 | W22 |
| T 23 | 2 8 22 | 0♏19'17 | 16° 8 | 21°37 | 11°18 | 4° 7 | 11°36 | 23°51 | 12°18 | 15°13 | 26°19 | 8°15 | 7°57 | 4°37 | 10°40 | T 23 |
| F 24 | 2 12 18 | 1°19'16 | 28°28 | 21°47 | 12°33 | 4°51 | 11°44 | 23°56 | 12°19 | 15°14 | 26°19 | 8° 9 | 7°54 | 4°44 | 10°41 | F 24 |
| S 25 | 2 16 15 | 2°19'16 | 10♑33 | 21°R50 | 13°48 | 5°35 | 11°53 | 24° 1 | 12°19 | 15°15 | 26°18 | 8° 5 | 7°51 | 4°50 | 10°41 | S 25 |
| S 26 | 2 20 11 | 3°19'18 | 22°27 | 21°43 | 15° 3 | 6°19 | 12° 2 | 24° 7 | 12°19 | 15°16 | 26°17 | 8° 3 | 7°48 | 4°57 | 10°41 | S 26 |
| M27 | 2 24 8 | 4°19'22 | 4♒16 | 21°28 | 16°18 | 7° 3 | 12°11 | 24°12 | 12°19 | 15°17 | 26°17 | 8° 3 | 7°45 | 5° 4 | 10°42 | M27 |
| T 28 | 2 28 4 | 5°19'27 | 16° 4 | 21° 4 | 17°33 | 7°47 | 12°20 | 24°17 | 12°19 | 15°18 | 26°16 | 8° 3 | 7°41 | 5°10 | 10°43 | T 28 |
| W29 | 2 32 1 | 6°19'34 | 27°58 | 20°29 | 18°48 | 8°31 | 12°29 | 24°23 | 12°20 | 15°19 | 26°15 | 8° 2 | 7°38 | 5°17 | 10°43 | W29 |
| T 30 | 2 35 57 | 7°19'43 | 10♓ 2 | 19°46 | 20° 3 | 9°15 | 12°38 | 24°28 | 12°20 | 15°20 | 26°15 | 7°59 | 7°35 | 5°23 | 10°44 | T 30 |
| F 31 | 2 39 54 | 8♏19'53 | 22♓22 | 18♏53 | 21♏18 | 9♐59 | 12♑48 | 24♐34 | 12♒21 | 15♑21 | 26♊14 | 7♌53 | 7♌32 | 5♒30 | 10♒45 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s22 | 15s36 | 0s50 | 13s19 | 1s45 | 4s25 | 1n 8 | 17s54 | 0s36 | 23s29 | 0s19 | 22s18 | 0n57 | 17s46 | 0s42 | 21s59 | 0n39 | 17n13 | 6s14 | 17n33 | 18n 0 | 19s 6 | 10s54 | 6n54 |
| T 2 | 3 45 | 12 28 | 1 52 | 13 53 | 1 52 | 4 55 | 1 7 | 18 6 | 0 36 | 23 28 | 0 19 | 22 18 | 0 57 | 17 46 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 34 | 18 1 | 19 5 | 10 54 | 6 54 |
| F 3 | 4 9 | 8 46 | 2 50 | 14 27 | 1 59 | 5 25 | 1 5 | 18 18 | 0 37 | 23 28 | 0 19 | 22 19 | 0 57 | 17 46 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 35 | 18 2 | 19 5 | 10 55 | 6 53 |
| S 4 | 4 32 | 4 37 | 3 40 | 14 59 | 2 5 | 5 55 | 1 4 | 18 30 | 0 37 | 23 28 | 0 19 | 22 19 | 0 57 | 17 47 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 37 | 18 3 | 19 4 | 10 56 | 6 53 |
| S 5 | 4 55 | 0 11 | 4 21 | 15 31 | 2 12 | 6 25 | 1 2 | 18 42 | 0 38 | 23 27 | 0 19 | 22 19 | 0 57 | 17 47 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 40 | 18 4 | 19 4 | 10 56 | 6 52 |
| M 6 | 5 18 | 4n20 | 4 49 | 16 1 | 2 18 | 6 55 | 1 0 | 18 53 | 0 39 | 23 27 | 0 19 | 22 20 | 0 57 | 17 47 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 43 | 18 5 | 19 3 | 10 57 | 6 52 |
| T 7 | 5 41 | 8 45 | 5 2 | 16 31 | 2 23 | 7 25 | 0 59 | 19 5 | 0 39 | 23 27 | 0 19 | 22 20 | 0 56 | 17 47 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 46 | 18 5 | 19 2 | 10 58 | 6 51 |
| W 8 | 6 4 | 12 48 | 4 59 | 17 0 | 2 29 | 7 55 | 0 57 | 19 16 | 0 40 | 23 26 | 0 19 | 22 21 | 0 56 | 17 47 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 49 | 18 6 | 19 2 | 10 58 | 6 51 |
| T 9 | 6 27 | 16 14 | 4 39 | 17 27 | 2 34 | 8 24 | 0 55 | 19 27 | 0 40 | 23 26 | 0 19 | 22 21 | 0 56 | 17 48 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 51 | 18 7 | 19 1 | 10 59 | 6 51 |
| F 10 | 6 50 | 18 48 | 4 2 | 17 53 | 2 39 | 8 53 | 0 53 | 19 39 | 0 41 | 23 25 | 0 19 | 22 21 | 0 56 | 17 48 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 53 | 18 8 | 19 0 | 11 0 | 6 50 |
| S 11 | 7 13 | 20 18 | 3 11 | 18 18 | 2 44 | 9 22 | 0 51 | 19 49 | 0 41 | 23 25 | 0 19 | 22 22 | 0 56 | 17 48 | 0 42 | 21 59 | 0 39 | 17 12 | 6 14 | 17 54 | 18 9 | 19 0 | 11 0 | 6 50 |
| S 12 | 7 35 | 20 33 | 2 8 | 18 42 | 2 48 | 9 51 | 0 50 | 20 0 | 0 42 | 23 25 | 0 19 | 22 22 | 0 56 | 17 48 | 0 42 | 21 59 | 0 39 | 17 12 | 6 15 | 17 54 | 18 10 | 18 59 | 11 1 | 6 49 |
| M13 | 7 58 | 19 31 | 0 57 | 19 4 | 2 52 | 10 19 | 0 48 | 20 11 | 0 42 | 23 24 | 0 19 | 22 22 | 0 56 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 17 54 | 18 10 | 18 58 | 11 1 | 6 49 |
| T 14 | 8 20 | 17 15 | 0n18 | 19 25 | 2 56 | 10 48 | 0 46 | 20 21 | 0 43 | 23 24 | 0 19 | 22 23 | 0 55 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 17 54 | 18 11 | 18 57 | 11 2 | 6 48 |
| W15 | 8 43 | 13 56 | 1 32 | 19 44 | 2 59 | 11 16 | 0 44 | 20 31 | 0 43 | 23 23 | 0 19 | 22 23 | 0 55 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 17 54 | 18 12 | 18 57 | 11 3 | 6 48 |
| T 16 | 9 5 | 9 47 | 2 40 | 20 1 | 3 1 | 11 44 | 0 42 | 20 42 | 0 44 | 23 23 | 0 19 | 22 24 | 0 55 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 17 55 | 18 13 | 18 56 | 11 3 | 6 47 |
| F 17 | 9 27 | 5 7 | 3 38 | 20 16 | 3 3 | 12 11 | 0 39 | 20 51 | 0 44 | 23 22 | 0 19 | 22 24 | 0 55 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 17 57 | 18 14 | 18 55 | 11 4 | 6 47 |
| S 18 | 9 49 | 0 12 | 4 22 | 20 30 | 3 4 | 12 39 | 0 37 | 21 1 | 0 45 | 23 21 | 0 20 | 22 24 | 0 55 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 17 59 | 18 15 | 18 55 | 11 4 | 6 46 |
| S 19 | 10 11 | 4s39 | 4 50 | 20 41 | 3 4 | 13 5 | 0 35 | 21 11 | 0 45 | 23 21 | 0 20 | 22 25 | 0 55 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 18 2 | 18 15 | 18 54 | 11 5 | 6 46 |
| M20 | 10 32 | 9 11 | 5 1 | 20 51 | 3 4 | 13 32 | 0 33 | 21 20 | 0 46 | 23 20 | 0 20 | 22 25 | 0 55 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 18 5 | 18 16 | 18 53 | 11 5 | 6 45 |
| T 21 | 10 54 | 13 10 | 4 55 | 20 57 | 3 3 | 13 58 | 0 31 | 21 29 | 0 46 | 23 20 | 0 20 | 22 25 | 0 54 | 17 48 | 0 42 | 21 59 | 0 39 | 17 11 | 6 15 | 18 9 | 18 17 | 18 52 | 11 5 | 6 45 |
| W22 | 11 15 | 16 25 | 4 33 | 21 1 | 3 0 | 14 24 | 0 28 | 21 38 | 0 47 | 23 19 | 0 20 | 22 26 | 0 54 | 17 48 | 0 42 | 21 58 | 0 39 | 17 11 | 6 15 | 18 12 | 18 18 | 18 52 | 11 6 | 6 44 |
| T 23 | 11 36 | 18 48 | 3 58 | 21 3 | 2 57 | 14 50 | 0 26 | 21 47 | 0 47 | 23 18 | 0 20 | 22 26 | 0 54 | 17 48 | 0 42 | 21 58 | 0 38 | 17 11 | 6 15 | 18 14 | 18 19 | 18 51 | 11 6 | 6 44 |
| F 24 | 11 57 | 20 15 | 3 13 | 21 1 | 2 52 | 15 15 | 0 24 | 21 56 | 0 48 | 23 17 | 0 20 | 22 27 | 0 54 | 17 48 | 0 42 | 21 58 | 0 38 | 17 10 | 6 15 | 18 16 | 18 19 | 18 50 | 11 7 | 6 43 |
| S 25 | 12 18 | 20 44 | 2 20 | 20 55 | 2 46 | 15 40 | 0 21 | 22 4 | 0 48 | 23 17 | 0 20 | 22 27 | 0 54 | 17 48 | 0 42 | 21 58 | 0 38 | 17 10 | 6 16 | 18 17 | 18 20 | 18 50 | 11 7 | 6 43 |
| S 26 | 12 39 | 20 16 | 1 22 | 20 47 | 2 38 | 16 4 | 0 19 | 22 12 | 0 49 | 23 16 | 0 20 | 22 27 | 0 54 | 17 48 | 0 42 | 21 58 | 0 38 | 17 10 | 6 16 | 18 17 | 18 21 | 18 49 | 11 7 | 6 42 |
| M27 | 12 59 | 18 54 | 0 20 | 20 34 | 2 29 | 16 29 | 0 17 | 22 20 | 0 49 | 23 15 | 0 20 | 22 28 | 0 54 | 17 48 | 0 42 | 21 58 | 0 38 | 17 10 | 6 16 | 18 17 | 18 22 | 18 48 | 11 8 | 6 42 |
| T 28 | 13 19 | 16 43 | 0s42 | 20 17 | 2 19 | 16 52 | 0 14 | 22 28 | 0 50 | 23 14 | 0 20 | 22 28 | 0 53 | 17 48 | 0 42 | 21 58 | 0 38 | 17 10 | 6 16 | 18 17 | 18 23 | 18 47 | 11 8 | 6 41 |
| W29 | 13 39 | 13 49 | 1 43 | 19 56 | 2 6 | 17 15 | 0 12 | 22 35 | 0 50 | 23 14 | 0 20 | 22 28 | 0 53 | 17 48 | 0 41 | 21 58 | 0 38 | 17 10 | 6 16 | 18 17 | 18 24 | 18 47 | 11 8 | 6 41 |
| T 30 | 13 59 | 10 18 | 2 41 | 19 30 | 1 52 | 17 38 | 0 9 | 22 43 | 0 51 | 23 13 | 0 20 | 22 29 | 0 53 | 17 48 | 0 41 | 21 58 | 0 38 | 17 10 | 6 16 | 18 18 | 18 24 | 18 46 | 11 9 | 6 40 |
| F 31 | 14s18 | 6s16 | 3s32 | 19s 1 | 1s36 | 18s 0 | 0n 7 | 22s50 | 0s51 | 23s12 | 0s20 | 22s29 | 0n53 | 17s47 | 0s41 | 21s58 | 0n38 | 17n10 | 6s16 | 18n20 | 18n25 | 18s45 | 11s 9 | 6n40 |

Julian Day Number = 2329097.5, Delta T = 33.18 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'39, Lahiri = 19°10'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## NOVEMBER 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 43 51 | 9♏20'04 | 5♈ 0 | 17°R51 | 22♏33 | 10♐44 | 12♑57 | 24♐39 | 12♒21 | 15♑23 | 26°R13 | 7°R45 | 7♌29 | 5♒37 | 10♒45 | S 1 |
| S 2 | 2 47 47 | 10°20'18 | 17°59 | 16♏42 | 23°48 | 11°28 | 13° 7 | 24°45 | 12°22 | 15°24 | 26♊12 | 7♌34 | 7°26 | 5°43 | 10°46 | S 2 |
| M 3 | 2 51 44 | 11°20'32 | 1♉19 | 15°27 | 25° 3 | 12°12 | 13°17 | 24°51 | 12°22 | 15°25 | 26°12 | 7°22 | 7°22 | 5°50 | 10°47 | M 3 |
| T 4 | 2 55 40 | 12°20'49 | 14°58 | 14° 8 | 26°18 | 12°57 | 13°27 | 24°56 | 12°23 | 15°26 | 26°11 | 7° 9 | 7°19 | 5°57 | 10°48 | T 4 |
| W 5 | 2 59 37 | 13°21'08 | 28°52 | 12°49 | 27°33 | 13°41 | 13°37 | 25° 2 | 12°24 | 15°27 | 26°10 | 6°57 | 7°16 | 6° 3 | 10°49 | W 5 |
| T 6 | 3 3 33 | 14°21'28 | 12♊58 | 11°30 | 28°48 | 14°26 | 13°47 | 25° 8 | 12°25 | 15°29 | 26° 9 | 6°46 | 7°13 | 6°10 | 10°50 | T 6 |
| F 7 | 3 7 30 | 15°21'50 | 27°10 | 10°15 | 0♐ 3 | 15°11 | 13°57 | 25°14 | 12°25 | 15°30 | 26° 8 | 6°39 | 7°10 | 6°17 | 10°52 | F 7 |
| S 8 | 3 11 26 | 16°22'14 | 11♋24 | 9° 6 | 1°18 | 15°56 | 14° 8 | 25°20 | 12°26 | 15°31 | 26° 7 | 6°34 | 7° 6 | 6°23 | 10°53 | S 8 |
| S 9 | 3 15 23 | 17°22'40 | 25°37 | 8° 6 | 2°33 | 16°40 | 14°18 | 25°26 | 12°27 | 15°33 | 26° 6 | 6°33 | 7° 3 | 6°30 | 10°54 | S 9 |
| M10 | 3 19 20 | 18°23'08 | 9♌46 | 7°15 | 3°48 | 17°25 | 14°29 | 25°32 | 12°28 | 15°34 | 26° 6 | 6°D32 | 7° 0 | 6°37 | 10°56 | M10 |
| T 11 | 3 23 16 | 19°23'38 | 23°50 | 6°36 | 5° 3 | 18°10 | 14°39 | 25°38 | 12°29 | 15°36 | 26° 5 | 6°R32 | 6°57 | 6°43 | 10°57 | T 11 |
| W12 | 3 27 13 | 20°24'10 | 7♍49 | 6° 8 | 6°18 | 18°55 | 14°50 | 25°44 | 12°30 | 15°37 | 26° 4 | 6°31 | 6°54 | 6°50 | 10°59 | W12 |
| T 13 | 3 31 9 | 21°24'43 | 21°42 | 5°52 | 7°33 | 19°40 | 15° 1 | 25°51 | 12°31 | 15°39 | 26° 3 | 6°28 | 6°51 | 6°56 | 11° 0 | T 13 |
| F 14 | 3 35 6 | 22°25'18 | 5♎29 | 5°D47 | 8°48 | 20°25 | 15°12 | 25°57 | 12°32 | 15°40 | 26° 2 | 6°22 | 6°47 | 7° 3 | 11° 2 | F 14 |
| S 15 | 3 39 2 | 23°25'55 | 19° 7 | 5°53 | 10° 3 | 21°11 | 15°23 | 26° 3 | 12°34 | 15°42 | 26° 1 | 6°13 | 6°44 | 7°10 | 11° 3 | S 15 |
| S 16 | 3 42 59 | 24°26'34 | 2♏35 | 6°10 | 11°18 | 21°56 | 15°34 | 26° 9 | 12°35 | 15°43 | 26° 0 | 6° 2 | 6°41 | 7°16 | 11° 5 | S 16 |
| M17 | 3 46 55 | 25°27'14 | 15°51 | 6°36 | 12°33 | 22°41 | 15°46 | 26°16 | 12°36 | 15°45 | 25°59 | 5°50 | 6°38 | 7°23 | 11° 7 | M17 |
| T 18 | 3 50 52 | 26°27'56 | 28°53 | 7°10 | 13°48 | 23°26 | 15°57 | 26°22 | 12°38 | 15°46 | 25°58 | 5°37 | 6°35 | 7°30 | 11° 9 | T 18 |
| W19 | 3 54 49 | 27°28'39 | 11♐38 | 7°52 | 15° 3 | 24°12 | 16° 9 | 26°29 | 12°39 | 15°48 | 25°57 | 5°26 | 6°32 | 7°36 | 11°11 | W19 |
| T 20 | 3 58 45 | 28°29'24 | 24° 8 | 8°41 | 16°18 | 24°57 | 16°20 | 26°35 | 12°40 | 15°50 | 25°56 | 5°16 | 6°28 | 7°43 | 11°13 | T 20 |
| F 21 | 4 2 42 | 29°30'09 | 6♑23 | 9°36 | 17°33 | 25°43 | 16°32 | 26°42 | 12°42 | 15°51 | 25°55 | 5°10 | 6°25 | 7°50 | 11°15 | F 21 |
| S 22 | 4 6 38 | 0♐30'56 | 18°25 | 10°36 | 18°48 | 26°28 | 16°44 | 26°48 | 12°44 | 15°53 | 25°54 | 5° 6 | 6°22 | 7°56 | 11°17 | S 22 |
| S 23 | 4 10 35 | 1°31'44 | 0♒18 | 11°41 | 20° 3 | 27°14 | 16°55 | 26°55 | 12°45 | 15°55 | 25°53 | 5°D 4 | 6°19 | 8° 3 | 11°19 | S 23 |
| M24 | 4 14 31 | 2°32'33 | 12° 5 | 12°50 | 21°18 | 28° 0 | 17° 7 | 27° 1 | 12°47 | 15°57 | 25°52 | 5° 4 | 6°16 | 8°10 | 11°22 | M24 |
| T 25 | 4 18 28 | 3°33'23 | 23°52 | 14° 2 | 22°33 | 28°45 | 17°19 | 27° 8 | 12°48 | 15°58 | 25°50 | 5° 5 | 6°12 | 8°16 | 11°24 | T 25 |
| W26 | 4 22 24 | 4°34'14 | 5♓45 | 15°17 | 23°48 | 29°31 | 17°31 | 27°15 | 12°50 | 16° 0 | 25°49 | 5°R 5 | 6° 9 | 8°23 | 11°26 | W26 |
| T 27 | 4 26 21 | 5°35'06 | 17°48 | 16°34 | 25° 3 | 0♑17 | 17°44 | 27°22 | 12°52 | 16° 2 | 25°48 | 5° 5 | 6° 6 | 8°29 | 11°29 | T 27 |
| F 28 | 4 30 18 | 6°35'58 | 0♈ 7 | 17°54 | 26°18 | 1° 3 | 17°56 | 27°28 | 12°54 | 16° 4 | 25°47 | 5° 2 | 6° 3 | 8°36 | 11°31 | F 28 |
| S 29 | 4 34 14 | 7°36'52 | 12°47 | 19°15 | 27°33 | 1°49 | 18° 8 | 27°35 | 12°56 | 16° 6 | 25°46 | 4°56 | 6° 0 | 8°43 | 11°34 | S 29 |
| S 30 | 4 38 11 | 8♐37'46 | 25♈51 | 20♏38 | 28♐48 | 2♑35 | 18♑20 | 27♐42 | 12♒58 | 16♑ 8 | 25♊45 | 4♌49 | 5♌57 | 8♒49 | 11♒36 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s38 | 1s53 | 4s13 | 18s27 | 1s19 | 18s22 | 0n 5 | 22s57 | 0s51 | 23s11 | 0s20 | 22s29 | 0n53 | 17s47 | 0s41 | 21s58 | 0n38 | 17n10 | 6s16 | 18n22 | 18n26 | 18s44 | 11s 9 | 6n40 |
| S 2 | 14 57 | 2n42 | 4 43 | 17 49 | 1 0 | 18 43 | 0 2 | 23 3 | 0 52 | 23 10 | 0 20 | 22 30 | 0 53 | 17 47 | 0 41 | 21 58 | 0 38 | 17 10 | 6 16 | 18 25 | 18 27 | 18 44 | 11 9 | 6 39 |
| M 3 | 15 16 | 7 17 | 4 59 | 17 9 | 0 41 | 19 4 | 0s 0 | 23 10 | 0 52 | 23 9 | 0 20 | 22 30 | 0 53 | 17 47 | 0 41 | 21 57 | 0 38 | 17 10 | 6 16 | 18 28 | 18 28 | 18 43 | 11 10 | 6 39 |
| T 4 | 15 34 | 11 36 | 4 58 | 16 26 | 0 20 | 19 24 | 0 3 | 23 16 | 0 53 | 23 8 | 0 20 | 22 30 | 0 53 | 17 47 | 0 41 | 21 57 | 0 38 | 17 10 | 6 16 | 18 31 | 18 28 | 18 42 | 11 10 | 6 38 |
| W 5 | 15 52 | 15 24 | 4 39 | 15 42 | 0n 1 | 19 44 | 0 5 | 23 22 | 0 53 | 23 7 | 0 21 | 22 31 | 0 52 | 17 46 | 0 41 | 21 57 | 0 38 | 17 10 | 6 16 | 18 34 | 18 29 | 18 41 | 11 10 | 6 38 |
| T 6 | 16 11 | 18 22 | 4 3 | 14 58 | 0 21 | 20 3 | 0 8 | 23 27 | 0 54 | 23 6 | 0 21 | 22 31 | 0 52 | 17 46 | 0 41 | 21 57 | 0 38 | 17 9 | 6 16 | 18 37 | 18 30 | 18 40 | 11 10 | 6 37 |
| F 7 | 16 28 | 20 15 | 3 12 | 14 16 | 0 41 | 20 22 | 0 10 | 23 33 | 0 54 | 23 5 | 0 21 | 22 32 | 0 52 | 17 46 | 0 41 | 21 57 | 0 38 | 17 9 | 6 16 | 18 39 | 18 31 | 18 40 | 11 10 | 6 37 |
| S 8 | 16 46 | 20 51 | 2 9 | 13 37 | 1 0 | 20 40 | 0 13 | 23 38 | 0 54 | 23 4 | 0 21 | 22 32 | 0 52 | 17 46 | 0 41 | 21 57 | 0 38 | 17 9 | 6 16 | 18 40 | 18 32 | 18 39 | 11 10 | 6 36 |
| S 9 | 17 3 | 20 7 | 0 58 | 13 1 | 1 17 | 20 58 | 0 15 | 23 43 | 0 55 | 23 3 | 0 21 | 22 32 | 0 52 | 17 45 | 0 41 | 21 57 | 0 38 | 17 9 | 6 16 | 18 40 | 18 32 | 18 38 | 11 11 | 6 36 |
| M10 | 17 20 | 18 7 | 0n17 | 12 30 | 1 32 | 21 14 | 0 18 | 23 48 | 0 55 | 23 2 | 0 21 | 22 32 | 0 52 | 17 45 | 0 41 | 21 57 | 0 38 | 17 9 | 6 16 | 18 40 | 18 33 | 18 37 | 11 11 | 6 35 |
| T 11 | 17 36 | 15 1 | 1 30 | 12 5 | 1 46 | 21 31 | 0 20 | 23 52 | 0 55 | 23 1 | 0 21 | 22 33 | 0 52 | 17 45 | 0 41 | 21 56 | 0 38 | 17 9 | 6 16 | 18 40 | 18 34 | 18 36 | 11 11 | 6 35 |
| W12 | 17 53 | 11 5 | 2 38 | 11 44 | 1 57 | 21 46 | 0 23 | 23 57 | 0 56 | 23 0 | 0 21 | 22 33 | 0 52 | 17 44 | 0 41 | 21 56 | 0 38 | 17 9 | 6 16 | 18 41 | 18 35 | 18 36 | 11 11 | 6 34 |
| T 13 | 18 9 | 6 35 | 3 35 | 11 30 | 2 7 | 22 1 | 0 25 | 24 1 | 0 56 | 22 59 | 0 21 | 22 33 | 0 52 | 17 44 | 0 41 | 21 56 | 0 38 | 17 9 | 6 16 | 18 41 | 18 36 | 18 35 | 11 11 | 6 34 |
| F 14 | 18 24 | 1 47 | 4 20 | 11 21 | 2 15 | 22 16 | 0 28 | 24 5 | 0 57 | 22 58 | 0 21 | 22 34 | 0 51 | 17 44 | 0 41 | 21 56 | 0 38 | 17 9 | 6 17 | 18 43 | 18 36 | 18 34 | 11 11 | 6 33 |
| S 15 | 18 40 | 3s 3 | 4 49 | 11 18 | 2 21 | 22 30 | 0 30 | 24 8 | 0 57 | 22 56 | 0 21 | 22 34 | 0 51 | 17 43 | 0 41 | 21 56 | 0 38 | 17 9 | 6 17 | 18 45 | 18 37 | 18 33 | 11 11 | 6 33 |
| S 16 | 18 55 | 7 40 | 5 1 | 11 19 | 2 25 | 22 43 | 0 33 | 24 11 | 0 57 | 22 55 | 0 21 | 22 34 | 0 51 | 17 43 | 0 41 | 21 56 | 0 38 | 17 9 | 6 17 | 18 48 | 18 38 | 18 32 | 11 11 | 6 32 |
| M17 | 19 10 | 11 52 | 4 57 | 11 25 | 2 27 | 22 55 | 0 35 | 24 14 | 0 58 | 22 54 | 0 21 | 22 35 | 0 51 | 17 42 | 0 41 | 21 56 | 0 38 | 17 9 | 6 17 | 18 51 | 18 39 | 18 31 | 11 11 | 6 32 |
| T 18 | 19 24 | 15 25 | 4 38 | 11 36 | 2 28 | 23 7 | 0 37 | 24 17 | 0 58 | 22 53 | 0 21 | 22 35 | 0 51 | 17 42 | 0 41 | 21 55 | 0 38 | 17 9 | 6 17 | 18 54 | 18 40 | 18 31 | 11 11 | 6 32 |
| W19 | 19 38 | 18 11 | 4 4 | 11 49 | 2 28 | 23 18 | 0 40 | 24 19 | 0 58 | 22 51 | 0 21 | 22 35 | 0 51 | 17 42 | 0 41 | 21 55 | 0 38 | 17 9 | 6 17 | 18 57 | 18 40 | 18 30 | 11 10 | 6 31 |
| T 20 | 19 52 | 20 1 | 3 20 | 12 6 | 2 27 | 23 29 | 0 42 | 24 22 | 0 59 | 22 50 | 0 21 | 22 35 | 0 51 | 17 41 | 0 41 | 21 55 | 0 38 | 17 9 | 6 17 | 18 59 | 18 41 | 18 29 | 11 10 | 6 31 |
| F 21 | 20 5 | 20 53 | 2 27 | 12 26 | 2 25 | 23 38 | 0 45 | 24 24 | 0 59 | 22 49 | 0 21 | 22 36 | 0 51 | 17 41 | 0 41 | 21 55 | 0 38 | 17 9 | 6 17 | 19 1 | 18 42 | 18 28 | 11 10 | 6 30 |
| S 22 | 20 18 | 20 46 | 1 28 | 12 47 | 2 22 | 23 47 | 0 47 | 24 25 | 0 59 | 22 47 | 0 21 | 22 36 | 0 51 | 17 40 | 0 41 | 21 55 | 0 38 | 17 9 | 6 17 | 19 2 | 18 43 | 18 27 | 11 10 | 6 30 |
| S 23 | 20 30 | 19 42 | 0 26 | 13 11 | 2 18 | 23 56 | 0 49 | 24 27 | 1 0 | 22 46 | 0 22 | 22 36 | 0 50 | 17 40 | 0 41 | 21 54 | 0 38 | 17 8 | 6 17 | 19 2 | 18 44 | 18 26 | 11 10 | 6 29 |
| M24 | 20 42 | 17 48 | 0s37 | 13 36 | 2 13 | 24 3 | 0 51 | 24 28 | 1 0 | 22 44 | 0 22 | 22 36 | 0 50 | 17 39 | 0 41 | 21 54 | 0 38 | 17 8 | 6 17 | 19 2 | 18 44 | 18 25 | 11 10 | 6 29 |
| T 25 | 20 54 | 15 9 | 1 39 | 14 2 | 2 8 | 24 10 | 0 54 | 24 29 | 1 0 | 22 43 | 0 22 | 22 37 | 0 50 | 17 39 | 0 41 | 21 54 | 0 38 | 17 8 | 6 17 | 19 2 | 18 45 | 18 25 | 11 10 | 6 29 |
| W26 | 21 5 | 11 51 | 2 37 | 14 29 | 2 3 | 24 16 | 0 56 | 24 29 | 1 0 | 22 41 | 0 22 | 22 37 | 0 50 | 17 38 | 0 41 | 21 54 | 0 38 | 17 8 | 6 17 | 19 2 | 18 46 | 18 24 | 11 9 | 6 28 |
| T 27 | 21 16 | 8 1 | 3 28 | 14 57 | 1 57 | 24 21 | 0 58 | 24 30 | 1 1 | 22 40 | 0 22 | 22 37 | 0 50 | 17 38 | 0 41 | 21 54 | 0 38 | 17 8 | 6 17 | 19 2 | 18 47 | 18 23 | 11 9 | 6 28 |
| F 28 | 21 27 | 3 48 | 4 12 | 15 25 | 1 51 | 24 26 | 1 0 | 24 30 | 1 1 | 22 38 | 0 22 | 22 37 | 0 50 | 17 37 | 0 41 | 21 54 | 0 37 | 17 8 | 6 17 | 19 3 | 18 48 | 18 22 | 11 9 | 6 27 |
| S 29 | 21 37 | 0n42 | 4 44 | 15 54 | 1 45 | 24 30 | 1 2 | 24 29 | 1 1 | 22 37 | 0 22 | 22 38 | 0 50 | 17 37 | 0 41 | 21 53 | 0 37 | 17 8 | 6 17 | 19 4 | 18 48 | 18 21 | 11 9 | 6 27 |
| S 30 | 21s47 | 5n18 | 5s 2 | 16s22 | 1n38 | 24s33 | 1s 4 | 24s29 | 1s 1 | 22s35 | 0s22 | 22s38 | 0n50 | 17s36 | 0s41 | 21s53 | 0n37 | 17n 8 | 6s17 | 19n 6 | 18n49 | 18s20 | 11s 8 | 6n26 |

Julian Day Number = 2329128.5, Delta T = 33.12 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'43, Lahiri = 19°10'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1664
# geocentric

## DECEMBER 1664 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 42 7 | 9♐38'41 | 9♉20 | 22♏ 2 | 0♑ 3 | 3♑21 | 18♑33 | 27♐49 | 13♒ 0 | 16♑10 | 25°R44 | 4°R40 | 5♌53 | 8♒56 | 11♒39 | M 1 |
| T 2 | 4 46 4 | 10°39'37 | 23°13 | 23°28 | 1°18 | 4° 7 | 18°45 | 27°55 | 13° 2 | 16°11 | 25♊43 | 4♌31 | 5°50 | 9° 3 | 11°42 | T 2 |
| W 3 | 4 50 0 | 11°40'34 | 7♊28 | 24°54 | 2°33 | 4°53 | 18°58 | 28° 2 | 13° 4 | 16°13 | 25°41 | 4°22 | 5°47 | 9° 9 | 11°44 | W 3 |
| T 4 | 4 53 57 | 12°41'32 | 21°59 | 26°22 | 3°47 | 5°39 | 19°11 | 28° 9 | 13° 6 | 16°15 | 25°40 | 4°14 | 5°44 | 9°16 | 11°47 | T 4 |
| F 5 | 4 57 53 | 13°42'30 | 6♋38 | 27°50 | 5° 2 | 6°25 | 19°23 | 28°16 | 13° 8 | 16°17 | 25°39 | 4° 9 | 5°41 | 9°23 | 11°50 | F 5 |
| S 6 | 5 1 50 | 14°43'30 | 21°19 | 29°18 | 6°17 | 7°11 | 19°36 | 28°23 | 13°10 | 16°19 | 25°38 | 4° 6 | 5°37 | 9°29 | 11°53 | S 6 |
| S 7 | 5 5 47 | 15°44'31 | 5♌56 | 0♐47 | 7°32 | 7°58 | 19°49 | 28°30 | 13°12 | 16°21 | 25°37 | 4°D 5 | 5°34 | 9°36 | 11°56 | S 7 |
| M 8 | 5 9 43 | 16°45'33 | 20°23 | 2°17 | 8°47 | 8°44 | 20° 2 | 28°37 | 13°14 | 16°23 | 25°36 | 4° 6 | 5°31 | 9°43 | 11°59 | M 8 |
| T 9 | 5 13 40 | 17°46'36 | 4♍37 | 3°47 | 10° 2 | 9°30 | 20°15 | 28°44 | 13°17 | 16°25 | 25°34 | 4° 7 | 5°28 | 9°49 | 12° 2 | T 9 |
| W10 | 5 17 36 | 18°47'40 | 18°37 | 5°18 | 11°17 | 10°17 | 20°28 | 28°51 | 13°19 | 16°27 | 25°33 | 4°R 8 | 5°25 | 9°56 | 12° 5 | W10 |
| T 11 | 5 21 33 | 19°48'44 | 2♎23 | 6°48 | 12°31 | 11° 3 | 20°41 | 28°58 | 13°21 | 16°30 | 25°32 | 4° 7 | 5°22 | 10° 3 | 12° 8 | T 11 |
| F 12 | 5 25 29 | 20°49'50 | 15°54 | 8°19 | 13°46 | 11°50 | 20°54 | 29° 5 | 13°24 | 16°32 | 25°31 | 4° 4 | 5°18 | 10° 9 | 12°11 | F 12 |
| S 13 | 5 29 26 | 21°50'57 | 29°13 | 9°51 | 15° 1 | 12°36 | 21° 7 | 29°12 | 13°26 | 16°34 | 25°30 | 4° 0 | 5°15 | 10°16 | 12°15 | S 13 |
| S 14 | 5 33 22 | 22°52'04 | 12♏18 | 11°22 | 16°16 | 13°23 | 21°21 | 29°19 | 13°29 | 16°36 | 25°28 | 3°53 | 5°12 | 10°22 | 12°18 | S 14 |
| M15 | 5 37 19 | 23°53'12 | 25°10 | 12°54 | 17°31 | 14° 9 | 21°34 | 29°26 | 13°31 | 16°38 | 25°27 | 3°46 | 5° 9 | 10°29 | 12°21 | M15 |
| T 16 | 5 41 16 | 24°54'21 | 7♐50 | 14°26 | 18°46 | 14°56 | 21°47 | 29°33 | 13°34 | 16°40 | 25°26 | 3°38 | 5° 6 | 10°36 | 12°25 | T 16 |
| W17 | 5 45 12 | 25°55'31 | 20°17 | 15°59 | 20° 0 | 15°43 | 22° 1 | 29°40 | 13°36 | 16°42 | 25°25 | 3°32 | 5° 3 | 10°42 | 12°28 | W17 |
| T 18 | 5 49 9 | 26°56'41 | 2♑33 | 17°31 | 21°15 | 16°29 | 22°14 | 29°47 | 13°39 | 16°44 | 25°24 | 3°26 | 4°59 | 10°49 | 12°32 | T 18 |
| F 19 | 5 53 5 | 27°57'51 | 14°39 | 19° 4 | 22°30 | 17°16 | 22°28 | 29°54 | 13°42 | 16°47 | 25°22 | 3°22 | 4°56 | 10°56 | 12°35 | F 19 |
| S 20 | 5 57 2 | 28°59'02 | 26°35 | 20°37 | 23°45 | 18° 3 | 22°41 | 0♑ 1 | 13°44 | 16°49 | 25°21 | 3°21 | 4°53 | 11° 2 | 12°39 | S 20 |
| S 21 | 6 0 58 | 0♑ 0'13 | 8♒25 | 22°10 | 24°59 | 18°50 | 22°55 | 0° 8 | 13°47 | 16°51 | 25°20 | 3°D20 | 4°50 | 11° 9 | 12°42 | S 21 |
| M22 | 6 4 55 | 1° 1'23 | 20°12 | 23°44 | 26°14 | 19°37 | 23° 8 | 0°15 | 13°50 | 16°53 | 25°19 | 3°22 | 4°47 | 11°16 | 12°46 | M22 |
| T 23 | 6 8 51 | 2° 2'34 | 1♓59 | 25°17 | 27°29 | 20°24 | 23°22 | 0°22 | 13°53 | 16°55 | 25°18 | 3°23 | 4°43 | 11°22 | 12°50 | T 23 |
| W24 | 6 12 48 | 3° 3'45 | 13°50 | 26°51 | 28°43 | 21°11 | 23°36 | 0°29 | 13°55 | 16°58 | 25°16 | 3°25 | 4°40 | 11°29 | 12°53 | W24 |
| T 25 | 6 16 45 | 4° 4'56 | 25°51 | 28°26 | 29°58 | 21°57 | 23°50 | 0°37 | 13°58 | 17° 0 | 25°15 | 3°27 | 4°37 | 11°36 | 12°57 | T 25 |
| F 26 | 6 20 41 | 5° 6'06 | 8♈ 7 | 0♑ 0 | 1♒13 | 22°44 | 24° 3 | 0°44 | 14° 1 | 17° 2 | 25°14 | 3°R27 | 4°34 | 11°42 | 13° 1 | F 26 |
| S 27 | 6 24 38 | 6° 7'16 | 20°43 | 1°35 | 2°27 | 23°31 | 24°17 | 0°51 | 14° 4 | 17° 4 | 25°13 | 3°26 | 4°31 | 11°49 | 13° 5 | S 27 |
| S 28 | 6 28 34 | 7° 8'27 | 3♉42 | 3°10 | 3°42 | 24°18 | 24°31 | 0°58 | 14° 7 | 17° 7 | 25°12 | 3°24 | 4°28 | 11°56 | 13° 8 | S 28 |
| M29 | 6 32 31 | 8° 9'36 | 17° 8 | 4°46 | 4°56 | 25° 5 | 24°45 | 1° 5 | 14°10 | 17° 9 | 25°11 | 3°20 | 4°24 | 12° 2 | 13°12 | M29 |
| T 30 | 6 36 27 | 9°10'46 | 1♊ 1 | 6°22 | 6°11 | 25°53 | 24°59 | 1°12 | 14°13 | 17°11 | 25° 9 | 3°17 | 4°21 | 12° 9 | 13°16 | T 30 |
| W31 | 6 40 24 | 10♑11'56 | 15♊21 | 7♑58 | 7♒25 | 26♑40 | 25♑13 | 1♑19 | 14♒16 | 17♑13 | 25♊ 8 | 3♌13 | 4♌18 | 12♒15 | 13♒20 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s56 | 9n48 | 5s 5 | 16s51 | 1n31 | 24s35 | 1s 6 | 24s28 | 1s 2 | 22s33 | 0s22 | 22s38 | 0n50 | 17s35 | 0s40 | 21s53 | 0n37 | 17n 8 | 6s17 | 19n 8 | 18n50 | 18s19 | 11s 8 | 6n26 |
| T 2 | 22 5 | 13 56 | 4 50 | 17 19 | 1 24 | 24 37 | 1 8 | 24 27 | 1 2 | 22 32 | 0 22 | 22 38 | 0 50 | 17 35 | 0 40 | 21 53 | 0 37 | 17 8 | 6 17 | 19 10 | 18 51 | 18 18 | 11 8 | 6 26 |
| W 3 | 22 14 | 17 22 | 4 17 | 17 47 | 1 17 | 24 38 | 1 10 | 24 26 | 1 2 | 22 30 | 0 22 | 22 38 | 0 50 | 17 34 | 0 40 | 21 53 | 0 37 | 17 8 | 6 17 | 19 12 | 18 52 | 18 17 | 11 7 | 6 25 |
| T 4 | 22 22 | 19 48 | 3 27 | 18 15 | 1 9 | 24 38 | 1 12 | 24 24 | 1 2 | 22 28 | 0 22 | 22 39 | 0 49 | 17 34 | 0 40 | 21 52 | 0 37 | 17 8 | 6 17 | 19 14 | 18 52 | 18 16 | 11 7 | 6 25 |
| F 5 | 22 29 | 20 57 | 2 22 | 18 42 | 1 2 | 24 37 | 1 14 | 24 22 | 1 3 | 22 27 | 0 22 | 22 39 | 0 49 | 17 33 | 0 40 | 21 52 | 0 37 | 17 8 | 6 17 | 19 15 | 18 53 | 18 16 | 11 6 | 6 25 |
| S 6 | 22 36 | 20 40 | 1 8 | 19 9 | 0 55 | 24 36 | 1 16 | 24 20 | 1 3 | 22 25 | 0 22 | 22 39 | 0 49 | 17 32 | 0 40 | 21 52 | 0 37 | 17 8 | 6 17 | 19 16 | 18 54 | 18 15 | 11 6 | 6 24 |
| S 7 | 22 43 | 18 59 | 0n10 | 19 35 | 0 47 | 24 34 | 1 18 | 24 18 | 1 3 | 22 23 | 0 22 | 22 39 | 0 49 | 17 32 | 0 40 | 21 52 | 0 37 | 17 8 | 6 17 | 19 16 | 18 55 | 18 14 | 11 6 | 6 24 |
| M 8 | 22 49 | 16 6 | 1 27 | 20 0 | 0 40 | 24 31 | 1 19 | 24 15 | 1 3 | 22 21 | 0 22 | 22 39 | 0 49 | 17 31 | 0 40 | 21 51 | 0 37 | 17 8 | 6 17 | 19 16 | 18 55 | 18 13 | 11 5 | 6 23 |
| T 9 | 22 55 | 12 17 | 2 38 | 20 25 | 0 33 | 24 27 | 1 21 | 24 12 | 1 4 | 22 19 | 0 22 | 22 39 | 0 49 | 17 30 | 0 40 | 21 51 | 0 37 | 17 8 | 6 17 | 19 16 | 18 56 | 18 12 | 11 5 | 6 23 |
| W10 | 23 0 | 7 51 | 3 37 | 20 49 | 0 25 | 24 23 | 1 23 | 24 8 | 1 4 | 22 17 | 0 23 | 22 40 | 0 49 | 17 30 | 0 40 | 21 51 | 0 37 | 17 8 | 6 17 | 19 15 | 18 57 | 18 11 | 11 4 | 6 23 |
| T 11 | 23 5 | 3 5 | 4 24 | 21 11 | 0 18 | 24 17 | 1 24 | 24 5 | 1 4 | 22 16 | 0 23 | 22 40 | 0 49 | 17 29 | 0 40 | 21 51 | 0 37 | 17 8 | 6 16 | 19 16 | 18 58 | 18 10 | 11 4 | 6 22 |
| F 12 | 23 10 | 1s44 | 4 54 | 21 33 | 0 11 | 24 11 | 1 26 | 24 1 | 1 4 | 22 14 | 0 23 | 22 40 | 0 49 | 17 28 | 0 40 | 21 50 | 0 37 | 17 8 | 6 16 | 19 16 | 18 59 | 18 9 | 11 3 | 6 22 |
| S 13 | 23 14 | 6 24 | 5 9 | 21 54 | 0 3 | 24 5 | 1 27 | 23 57 | 1 4 | 22 12 | 0 23 | 22 40 | 0 49 | 17 28 | 0 40 | 21 50 | 0 37 | 17 8 | 6 16 | 19 17 | 18 59 | 18 8 | 11 3 | 6 22 |
| S 14 | 23 17 | 10 41 | 5 6 | 22 15 | 0s 4 | 23 57 | 1 29 | 23 53 | 1 4 | 22 10 | 0 23 | 22 40 | 0 49 | 17 27 | 0 40 | 21 50 | 0 37 | 17 8 | 6 16 | 19 19 | 19 0 | 18 7 | 11 2 | 6 21 |
| M15 | 23 20 | 14 25 | 4 49 | 22 34 | 0 11 | 23 49 | 1 30 | 23 48 | 1 5 | 22 8 | 0 23 | 22 40 | 0 49 | 17 26 | 0 40 | 21 50 | 0 37 | 17 8 | 6 16 | 19 21 | 19 1 | 18 6 | 11 1 | 6 21 |
| T 16 | 23 23 | 17 26 | 4 17 | 22 52 | 0 17 | 23 40 | 1 31 | 23 43 | 1 5 | 22 6 | 0 23 | 22 40 | 0 49 | 17 25 | 0 40 | 21 50 | 0 37 | 17 8 | 6 16 | 19 22 | 19 2 | 18 5 | 11 1 | 6 21 |
| W17 | 23 25 | 19 35 | 3 33 | 23 9 | 0 24 | 23 31 | 1 32 | 23 38 | 1 5 | 22 3 | 0 23 | 22 40 | 0 48 | 17 25 | 0 40 | 21 49 | 0 37 | 17 8 | 6 16 | 19 24 | 19 2 | 18 4 | 11 0 | 6 20 |
| T 18 | 23 27 | 20 47 | 2 40 | 23 24 | 0 31 | 23 20 | 1 34 | 23 32 | 1 5 | 22 1 | 0 23 | 22 40 | 0 48 | 17 24 | 0 40 | 21 49 | 0 37 | 17 8 | 6 16 | 19 25 | 19 3 | 18 3 | 11 0 | 6 20 |
| F 19 | 23 28 | 21 1 | 1 40 | 23 39 | 0 37 | 23 9 | 1 35 | 23 26 | 1 5 | 21 59 | 0 23 | 22 41 | 0 48 | 17 23 | 0 40 | 21 49 | 0 37 | 17 8 | 6 16 | 19 26 | 19 4 | 18 2 | 10 59 | 6 20 |
| S 20 | 23 29 | 20 16 | 0 37 | 23 52 | 0 44 | 22 58 | 1 36 | 23 20 | 1 5 | 21 57 | 0 23 | 22 41 | 0 48 | 17 22 | 0 40 | 21 49 | 0 37 | 17 8 | 6 16 | 19 27 | 19 5 | 18 1 | 10 58 | 6 19 |
| S 21 | 23 29 | 18 38 | 0s28 | 24 5 | 0 50 | 22 45 | 1 37 | 23 14 | 1 5 | 21 55 | 0 23 | 22 41 | 0 48 | 17 21 | 0 40 | 21 48 | 0 37 | 17 8 | 6 16 | 19 27 | 19 5 | 18 0 | 10 58 | 6 19 |
| M22 | 23 29 | 16 13 | 1 31 | 24 16 | 0 56 | 22 32 | 1 38 | 23 8 | 1 6 | 21 53 | 0 23 | 22 41 | 0 48 | 17 21 | 0 40 | 21 48 | 0 37 | 17 8 | 6 16 | 19 26 | 19 6 | 17 59 | 10 57 | 6 19 |
| T 23 | 23 28 | 13 8 | 2 31 | 24 25 | 1 2 | 22 18 | 1 38 | 23 1 | 1 6 | 21 50 | 0 23 | 22 41 | 0 48 | 17 20 | 0 40 | 21 48 | 0 37 | 17 8 | 6 16 | 19 26 | 19 7 | 17 58 | 10 56 | 6 18 |
| W24 | 23 27 | 9 31 | 3 24 | 24 34 | 1 7 | 22 4 | 1 39 | 22 54 | 1 6 | 21 48 | 0 24 | 22 41 | 0 48 | 17 19 | 0 40 | 21 47 | 0 37 | 17 8 | 6 16 | 19 25 | 19 8 | 17 57 | 10 55 | 6 18 |
| T 25 | 23 25 | 5 28 | 4 10 | 24 41 | 1 13 | 21 49 | 1 40 | 22 46 | 1 6 | 21 46 | 0 24 | 22 41 | 0 48 | 17 18 | 0 40 | 21 47 | 0 37 | 17 8 | 6 16 | 19 25 | 19 8 | 17 56 | 10 55 | 6 18 |
| F 26 | 23 23 | 1 8 | 4 45 | 24 47 | 1 18 | 21 33 | 1 40 | 22 39 | 1 6 | 21 43 | 0 24 | 22 41 | 0 48 | 17 17 | 0 40 | 21 47 | 0 37 | 17 8 | 6 16 | 19 25 | 19 9 | 17 55 | 10 54 | 6 18 |
| S 27 | 23 20 | 3n21 | 5 7 | 24 51 | 1 23 | 21 17 | 1 41 | 22 31 | 1 6 | 21 41 | 0 24 | 22 41 | 0 48 | 17 16 | 0 40 | 21 47 | 0 37 | 17 8 | 6 16 | 19 25 | 19 10 | 17 54 | 10 53 | 6 17 |
| S 28 | 23 17 | 7 50 | 5 15 | 24 54 | 1 28 | 21 0 | 1 41 | 22 23 | 1 6 | 21 39 | 0 24 | 22 41 | 0 48 | 17 16 | 0 40 | 21 46 | 0 37 | 17 8 | 6 15 | 19 26 | 19 11 | 17 53 | 10 52 | 6 17 |
| M29 | 23 14 | 12 5 | 5 6 | 24 56 | 1 32 | 20 43 | 1 42 | 22 14 | 1 6 | 21 36 | 0 24 | 22 41 | 0 48 | 17 15 | 0 40 | 21 46 | 0 37 | 17 8 | 6 15 | 19 27 | 19 12 | 17 52 | 10 52 | 6 17 |
| T 30 | 23 10 | 15 51 | 4 39 | 24 56 | 1 37 | 20 24 | 1 42 | 22 6 | 1 6 | 21 34 | 0 24 | 22 41 | 0 48 | 17 14 | 0 40 | 21 46 | 0 37 | 17 8 | 6 15 | 19 27 | 19 12 | 17 51 | 10 51 | 6 16 |
| W31 | 23s 5 | 18n48 | 3s54 | 24s55 | 1s41 | 20s 6 | 1s42 | 21s57 | 1s 6 | 21s31 | 0s24 | 22s41 | 0n48 | 17s13 | 0s40 | 21s46 | 0n37 | 17n 9 | 6s15 | 19n28 | 19n13 | 17s50 | 10s50 | 6n16 |

Julian Day Number = 2329158.5, Delta T = 33.07 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'47, Lahiri = 19°10'48Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## JANUARY 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 44 20 | 11♑13'05 | 0♋ 3 | 9♑35 | 8♒40 | 27♑27 | 25♑27 | 1♑26 | 14♒19 | 17♑16 | 25°R 7 | 3°R10 | 4♌15 | 12♒22 | 13♒24 | T 1 |
| F 2 | 6 48 17 | 12°14'14 | 15° 0 | 11°12 | 9°54 | 28°14 | 25°41 | 1°33 | 14°22 | 17°18 | 25♊ 6 | 3♌ 8 | 4°12 | 12°29 | 13°28 | F 2 |
| S 3 | 6 52 14 | 13°15'23 | 0♌ 4 | 12°50 | 11° 9 | 29° 1 | 25°55 | 1°40 | 14°25 | 17°20 | 25° 5 | 3°D 8 | 4° 9 | 12°35 | 13°32 | S 3 |
| S 4 | 6 56 10 | 14°16'31 | 15° 6 | 14°27 | 12°23 | 29°48 | 26° 9 | 1°47 | 14°28 | 17°22 | 25° 4 | 3° 8 | 4° 5 | 12°42 | 13°36 | S 4 |
| M 5 | 7 0 7 | 15°17'40 | 29°58 | 16° 6 | 13°37 | 0♒35 | 26°23 | 1°54 | 14°31 | 17°25 | 25° 3 | 3° 9 | 4° 2 | 12°49 | 13°40 | M 5 |
| T 6 | 7 4 3 | 16°18'48 | 14♍33 | 17°45 | 14°52 | 1°23 | 26°37 | 2° 1 | 14°34 | 17°27 | 25° 2 | 3°10 | 3°59 | 12°55 | 13°44 | T 6 |
| W 7 | 7 8 0 | 17°19'57 | 28°48 | 19°24 | 16° 6 | 2°10 | 26°51 | 2° 7 | 14°38 | 17°29 | 25° 0 | 3°11 | 3°56 | 13° 2 | 13°48 | W 7 |
| T 8 | 7 11 56 | 18°21'05 | 12♎40 | 21° 4 | 17°20 | 2°57 | 27° 5 | 2°14 | 14°41 | 17°32 | 24°59 | 3°R12 | 3°53 | 13° 9 | 13°53 | T 8 |
| F 9 | 7 15 53 | 19°22'13 | 26°10 | 22°44 | 18°35 | 3°44 | 27°19 | 2°21 | 14°44 | 17°34 | 24°58 | 3°12 | 3°49 | 13°15 | 13°57 | F 9 |
| S 10 | 7 19 49 | 20°23'21 | 9♏20 | 24°24 | 19°49 | 4°32 | 27°33 | 2°28 | 14°47 | 17°36 | 24°57 | 3°11 | 3°46 | 13°22 | 14° 1 | S 10 |
| S 11 | 7 23 46 | 21°24'29 | 22°12 | 26° 6 | 21° 3 | 5°19 | 27°47 | 2°35 | 14°50 | 17°38 | 24°56 | 3°10 | 3°43 | 13°29 | 14° 5 | S 11 |
| M12 | 7 27 43 | 22°25'36 | 4♐47 | 27°47 | 22°17 | 6° 6 | 28° 1 | 2°42 | 14°54 | 17°41 | 24°55 | 3° 9 | 3°40 | 13°35 | 14° 9 | M12 |
| T 13 | 7 31 39 | 23°26'43 | 17° 9 | 29°29 | 23°31 | 6°54 | 28°16 | 2°48 | 14°57 | 17°43 | 24°54 | 3° 7 | 3°37 | 13°42 | 14°14 | T 13 |
| W14 | 7 35 36 | 24°27'50 | 29°21 | 1♒11 | 24°45 | 7°41 | 28°30 | 2°55 | 15° 0 | 17°45 | 24°53 | 3° 6 | 3°34 | 13°49 | 14°18 | W14 |
| T 15 | 7 39 32 | 25°28'56 | 11♑23 | 2°54 | 25°59 | 8°29 | 28°44 | 3° 2 | 15° 4 | 17°47 | 24°52 | 3° 5 | 3°30 | 13°55 | 14°22 | T 15 |
| F 16 | 7 43 29 | 26°30'02 | 23°19 | 4°37 | 27°13 | 9°16 | 28°58 | 3° 9 | 15° 7 | 17°50 | 24°51 | 3° 4 | 3°27 | 14° 2 | 14°27 | F 16 |
| S 17 | 7 47 25 | 27°31'07 | 5♒ 9 | 6°20 | 28°27 | 10° 3 | 29°12 | 3°15 | 15°10 | 17°52 | 24°50 | 3°D 4 | 3°24 | 14° 8 | 14°31 | S 17 |
| S 18 | 7 51 22 | 28°32'11 | 16°57 | 8° 4 | 29°41 | 10°51 | 29°27 | 3°22 | 15°14 | 17°54 | 24°49 | 3° 4 | 3°21 | 14°15 | 14°35 | S 18 |
| M19 | 7 55 19 | 29°33'14 | 28°44 | 9°47 | 0♓55 | 11°38 | 29°41 | 3°29 | 15°17 | 17°56 | 24°48 | 3° 5 | 3°18 | 14°22 | 14°40 | M19 |
| T 20 | 7 59 15 | 0♒34'17 | 10♓33 | 11°30 | 2° 9 | 12°26 | 29°55 | 3°35 | 15°20 | 17°59 | 24°47 | 3° 5 | 3°15 | 14°28 | 14°44 | T 20 |
| W21 | 8 3 12 | 1°35'18 | 22°27 | 13°13 | 3°23 | 13°13 | 0♒ 9 | 3°42 | 15°24 | 18° 1 | 24°46 | 3° 5 | 3°11 | 14°35 | 14°48 | W21 |
| T 22 | 8 7 8 | 2°36'18 | 4♈30 | 14°56 | 4°36 | 14° 1 | 0°24 | 3°48 | 15°27 | 18° 3 | 24°45 | 3° 5 | 3° 8 | 14°42 | 14°53 | T 22 |
| F 23 | 8 11 5 | 3°37'17 | 16°45 | 16°38 | 5°50 | 14°48 | 0°38 | 3°55 | 15°31 | 18° 5 | 24°44 | 3°R 5 | 3° 5 | 14°48 | 14°57 | F 23 |
| S 24 | 8 15 1 | 4°38'14 | 29°16 | 18°20 | 7° 4 | 15°36 | 0°52 | 4° 1 | 15°34 | 18° 8 | 24°43 | 3°D 5 | 3° 2 | 14°55 | 15° 2 | S 24 |
| S 25 | 8 18 58 | 5°39'11 | 12♉ 9 | 20° 0 | 8°17 | 16°23 | 1° 6 | 4° 7 | 15°38 | 18°10 | 24°43 | 3° 5 | 2°59 | 15° 2 | 15° 6 | S 25 |
| M26 | 8 22 54 | 6°40'06 | 25°25 | 21°38 | 9°31 | 17°10 | 1°20 | 4°14 | 15°41 | 18°12 | 24°42 | 3° 6 | 2°55 | 15° 8 | 15°10 | M26 |
| T 27 | 8 26 51 | 7°41'00 | 9♊ 8 | 23°15 | 10°44 | 17°58 | 1°35 | 4°20 | 15°44 | 18°14 | 24°41 | 3° 6 | 2°52 | 15°15 | 15°15 | T 27 |
| W28 | 8 30 48 | 8°41'53 | 23°17 | 24°50 | 11°58 | 18°45 | 1°49 | 4°26 | 15°48 | 18°16 | 24°40 | 3° 6 | 2°49 | 15°22 | 15°19 | W28 |
| T 29 | 8 34 44 | 9°42'44 | 7♋53 | 26°21 | 13°11 | 19°33 | 2° 3 | 4°33 | 15°51 | 18°18 | 24°39 | 3° 7 | 2°46 | 15°28 | 15°24 | T 29 |
| F 30 | 8 38 41 | 10°43'34 | 22°50 | 27°50 | 14°24 | 20°20 | 2°17 | 4°39 | 15°55 | 18°21 | 24°38 | 3° 7 | 2°43 | 15°35 | 15°28 | F 30 |
| S 31 | 8 42 37 | 11♒44'22 | 8♌ 0 | 29♒14 | 15♓38 | 21♒ 8 | 2♒31 | 4♑45 | 15♒58 | 18♑23 | 24♊38 | 3°R 7 | 2♌40 | 15♒42 | 15♒33 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 0 | 20n36 | 2s53 | 24s53 | 1s45 | 19s46 | 1s42 | 21s47 | 1s 6 | 21s29 | 0s24 | 22s41 | 0n47 | 17s12 | 0s40 | 21s45 | 0n37 | 17n 9 | 6s15 | 19n29 | 19n14 | 17s49 | 10s49 | 6n16 |
| F 2 | 22 55 | 21 0 | 1 39 | 24 48 | 1 48 | 19 27 | 1 43 | 21 38 | 1 6 | 21 26 | 0 24 | 22 41 | 0 47 | 17 11 | 0 40 | 21 45 | 0 37 | 17 9 | 6 15 | 19 29 | 19 15 | 17 48 | 10 48 | 6 16 |
| S 3 | 22 49 | 19 54 | 0 17 | 24 43 | 1 52 | 19 6 | 1 43 | 21 28 | 1 6 | 21 24 | 0 24 | 22 41 | 0 47 | 17 10 | 0 40 | 21 45 | 0 37 | 17 9 | 6 15 | 19 30 | 19 15 | 17 47 | 10 47 | 6 15 |
| S 4 | 22 43 | 17 23 | 1n 6 | 24 36 | 1 55 | 18 45 | 1 43 | 21 19 | 1 6 | 21 21 | 0 24 | 22 41 | 0 47 | 17 9 | 0 40 | 21 44 | 0 37 | 17 9 | 6 15 | 19 29 | 19 16 | 17 46 | 10 46 | 6 15 |
| M 5 | 22 36 | 13 44 | 2 23 | 24 27 | 1 57 | 18 24 | 1 42 | 21 8 | 1 6 | 21 19 | 0 24 | 22 41 | 0 47 | 17 8 | 0 40 | 21 44 | 0 37 | 17 9 | 6 15 | 19 29 | 19 17 | 17 45 | 10 45 | 6 15 |
| T 6 | 22 29 | 9 19 | 3 30 | 24 17 | 2 0 | 18 2 | 1 42 | 20 58 | 1 6 | 21 16 | 0 25 | 22 41 | 0 47 | 17 7 | 0 40 | 21 44 | 0 37 | 17 9 | 6 15 | 19 29 | 19 18 | 17 44 | 10 44 | 6 15 |
| W 7 | 22 21 | 4 29 | 4 22 | 24 5 | 2 1 | 17 40 | 1 42 | 20 47 | 1 6 | 21 14 | 0 25 | 22 41 | 0 47 | 17 6 | 0 40 | 21 44 | 0 37 | 17 9 | 6 15 | 19 29 | 19 18 | 17 43 | 10 44 | 6 15 |
| T 8 | 22 13 | 0s27 | 4 57 | 23 51 | 2 3 | 17 17 | 1 42 | 20 37 | 1 6 | 21 11 | 0 25 | 22 41 | 0 47 | 17 6 | 0 40 | 21 43 | 0 37 | 17 9 | 6 14 | 19 29 | 19 19 | 17 42 | 10 43 | 6 14 |
| F 9 | 22 5 | 5 14 | 5 15 | 23 36 | 2 4 | 16 53 | 1 41 | 20 25 | 1 6 | 21 8 | 0 25 | 22 41 | 0 47 | 17 5 | 0 40 | 21 43 | 0 37 | 17 9 | 6 14 | 19 29 | 19 20 | 17 41 | 10 42 | 6 14 |
| S 10 | 21 56 | 9 39 | 5 15 | 23 20 | 2 5 | 16 29 | 1 41 | 20 14 | 1 6 | 21 6 | 0 25 | 22 40 | 0 47 | 17 4 | 0 40 | 21 43 | 0 37 | 17 9 | 6 14 | 19 29 | 19 21 | 17 40 | 10 41 | 6 14 |
| S 11 | 21 46 | 13 31 | 5 0 | 23 1 | 2 6 | 16 5 | 1 40 | 20 3 | 1 6 | 21 3 | 0 25 | 22 40 | 0 47 | 17 3 | 0 40 | 21 43 | 0 37 | 17 9 | 6 14 | 19 29 | 19 21 | 17 39 | 10 40 | 6 14 |
| M12 | 21 37 | 16 42 | 4 30 | 22 42 | 2 6 | 15 40 | 1 39 | 19 51 | 1 6 | 21 0 | 0 25 | 22 40 | 0 47 | 17 2 | 0 40 | 21 42 | 0 37 | 17 9 | 6 14 | 19 29 | 19 22 | 17 38 | 10 39 | 6 14 |
| T 13 | 21 26 | 19 4 | 3 48 | 22 20 | 2 5 | 15 15 | 1 38 | 19 39 | 1 6 | 20 57 | 0 25 | 22 40 | 0 47 | 17 1 | 0 40 | 21 42 | 0 37 | 17 9 | 6 14 | 19 30 | 19 23 | 17 36 | 10 38 | 6 13 |
| W14 | 21 16 | 20 32 | 2 57 | 21 57 | 2 4 | 14 50 | 1 38 | 19 27 | 1 6 | 20 55 | 0 25 | 22 40 | 0 47 | 17 0 | 0 40 | 21 42 | 0 37 | 17 9 | 6 14 | 19 30 | 19 24 | 17 35 | 10 36 | 6 13 |
| T 15 | 21 5 | 21 2 | 1 58 | 21 32 | 2 3 | 14 24 | 1 37 | 19 14 | 1 6 | 20 52 | 0 25 | 22 40 | 0 47 | 16 59 | 0 40 | 21 41 | 0 37 | 17 10 | 6 14 | 19 30 | 19 24 | 17 34 | 10 35 | 6 13 |
| F 16 | 20 53 | 20 35 | 0 54 | 21 6 | 2 1 | 13 57 | 1 36 | 19 2 | 1 6 | 20 49 | 0 25 | 22 40 | 0 47 | 16 58 | 0 40 | 21 41 | 0 37 | 17 10 | 6 14 | 19 30 | 19 25 | 17 33 | 10 34 | 6 13 |
| S 17 | 20 42 | 19 12 | 0s12 | 20 38 | 1 58 | 13 31 | 1 35 | 18 49 | 1 6 | 20 46 | 0 25 | 22 40 | 0 47 | 16 57 | 0 40 | 21 41 | 0 37 | 17 10 | 6 13 | 19 30 | 19 26 | 17 32 | 10 33 | 6 13 |
| S 18 | 20 29 | 17 0 | 1 16 | 20 8 | 1 55 | 13 4 | 1 33 | 18 36 | 1 6 | 20 43 | 0 26 | 22 40 | 0 47 | 16 56 | 0 40 | 21 40 | 0 37 | 17 10 | 6 13 | 19 30 | 19 26 | 17 31 | 10 32 | 6 13 |
| M19 | 20 17 | 14 5 | 2 18 | 19 37 | 1 52 | 12 36 | 1 32 | 18 23 | 1 6 | 20 40 | 0 26 | 22 39 | 0 47 | 16 55 | 0 40 | 21 40 | 0 37 | 17 10 | 6 13 | 19 30 | 19 27 | 17 30 | 10 31 | 6 13 |
| T 20 | 20 4 | 10 37 | 3 14 | 19 5 | 1 47 | 12 9 | 1 31 | 18 9 | 1 6 | 20 37 | 0 26 | 22 39 | 0 47 | 16 54 | 0 40 | 21 40 | 0 37 | 17 10 | 6 13 | 19 30 | 19 28 | 17 29 | 10 30 | 6 12 |
| W21 | 19 50 | 6 42 | 4 2 | 18 31 | 1 43 | 11 40 | 1 29 | 17 56 | 1 6 | 20 34 | 0 26 | 22 39 | 0 47 | 16 53 | 0 40 | 21 40 | 0 37 | 17 10 | 6 13 | 19 30 | 19 29 | 17 28 | 10 29 | 6 12 |
| T 22 | 19 37 | 2 29 | 4 40 | 17 56 | 1 37 | 11 12 | 1 28 | 17 42 | 1 6 | 20 31 | 0 26 | 22 39 | 0 47 | 16 52 | 0 40 | 21 39 | 0 37 | 17 10 | 6 13 | 19 30 | 19 29 | 17 27 | 10 28 | 6 12 |
| F 23 | 19 23 | 1n53 | 5 5 | 17 19 | 1 31 | 10 44 | 1 26 | 17 28 | 1 5 | 20 28 | 0 26 | 22 39 | 0 47 | 16 51 | 0 40 | 21 39 | 0 37 | 17 10 | 6 13 | 19 30 | 19 30 | 17 25 | 10 27 | 6 12 |
| S 24 | 19 8 | 6 17 | 5 17 | 16 41 | 1 24 | 10 15 | 1 25 | 17 14 | 1 5 | 20 25 | 0 26 | 22 39 | 0 47 | 16 50 | 0 40 | 21 39 | 0 37 | 17 10 | 6 12 | 19 30 | 19 31 | 17 24 | 10 25 | 6 12 |
| S 25 | 18 53 | 10 31 | 5 14 | 16 2 | 1 16 | 9 46 | 1 23 | 16 59 | 1 5 | 20 22 | 0 26 | 22 39 | 0 46 | 16 49 | 0 40 | 21 38 | 0 37 | 17 11 | 6 12 | 19 30 | 19 32 | 17 23 | 10 24 | 6 12 |
| M26 | 18 38 | 14 23 | 4 54 | 15 23 | 1 7 | 9 16 | 1 21 | 16 45 | 1 5 | 20 19 | 0 26 | 22 38 | 0 46 | 16 48 | 0 40 | 21 38 | 0 37 | 17 11 | 6 12 | 19 30 | 19 32 | 17 22 | 10 23 | 6 12 |
| T 27 | 18 23 | 17 37 | 4 18 | 14 42 | 0 58 | 8 47 | 1 19 | 16 30 | 1 5 | 20 16 | 0 26 | 22 38 | 0 46 | 16 47 | 0 40 | 21 38 | 0 37 | 17 11 | 6 12 | 19 30 | 19 33 | 17 21 | 10 22 | 6 12 |
| W28 | 18 7 | 19 55 | 3 24 | 14 1 | 0 48 | 8 17 | 1 18 | 16 15 | 1 5 | 20 13 | 0 26 | 22 38 | 0 46 | 16 46 | 0 40 | 21 38 | 0 37 | 17 11 | 6 12 | 19 30 | 19 34 | 17 20 | 10 21 | 6 12 |
| T 29 | 17 51 | 20 59 | 2 16 | 13 20 | 0 37 | 7 47 | 1 15 | 16 0 | 1 5 | 20 10 | 0 27 | 22 38 | 0 46 | 16 44 | 0 40 | 21 37 | 0 37 | 17 11 | 6 12 | 19 30 | 19 35 | 17 19 | 10 19 | 6 12 |
| F 30 | 17 35 | 20 37 | 0 57 | 12 38 | 0 25 | 7 17 | 1 13 | 15 45 | 1 4 | 20 7 | 0 27 | 22 38 | 0 46 | 16 43 | 0 40 | 21 37 | 0 37 | 17 11 | 6 12 | 19 30 | 19 35 | 17 17 | 10 18 | 6 11 |
| S 31 | 17s18 | 18n44 | 0n27 | 11s57 | 0s13 | 6s46 | 1s11 | 15s30 | 1s 4 | 20s 4 | 0s27 | 22s37 | 0n46 | 16s42 | 0s40 | 21s37 | 0n37 | 17n11 | 6s11 | 19n30 | 19n36 | 17s16 | 10s17 | 6n11 |

Julian Day Number = 2329189.5, Delta T = 33.01 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'51, Lahiri = 19°10'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## FEBRUARY 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 46 34 | 12♒45'10 | 23♌15 | 0♓34 | 16♓51 | 21♒55 | 2♒45 | 4♑51 | 16♒ 2 | 18♑25 | 24°R37 | 3°R 7 | 2♌36 | 15♒48 | 15♒37 | S 1 |
| M 2 | 8 50 30 | 13°45'56 | 8♍25 | 1°48 | 18° 4 | 22°43 | 2°59 | 4°57 | 16° 5 | 18°27 | 24♊36 | 3♌ 6 | 2°33 | 15°55 | 15°42 | M 2 |
| T 3 | 8 54 27 | 14°46'40 | 23°20 | 2°57 | 19°17 | 23°30 | 3°13 | 5° 3 | 16° 9 | 18°29 | 24°35 | 3° 5 | 2°30 | 16° 1 | 15°46 | T 3 |
| W 4 | 8 58 23 | 15°47'24 | 7♎54 | 3°58 | 20°30 | 24°18 | 3°28 | 5° 9 | 16°12 | 18°31 | 24°35 | 3° 3 | 2°27 | 16° 8 | 15°51 | W 4 |
| T 5 | 9 2 20 | 16°48'07 | 22° 1 | 4°52 | 21°43 | 25° 5 | 3°42 | 5°15 | 16°16 | 18°33 | 24°34 | 3° 2 | 2°24 | 16°15 | 15°55 | T 5 |
| F 6 | 9 6 17 | 17°48'48 | 5♏41 | 5°38 | 22°56 | 25°52 | 3°56 | 5°21 | 16°19 | 18°35 | 24°33 | 3° 1 | 2°21 | 16°21 | 16° 0 | F 6 |
| S 7 | 9 10 13 | 18°49'29 | 18°54 | 6°15 | 24° 8 | 26°40 | 4°10 | 5°26 | 16°23 | 18°37 | 24°33 | 3°D 0 | 2°17 | 16°28 | 16° 4 | S 7 |
| S 8 | 9 14 10 | 19°50'08 | 1♐43 | 6°42 | 25°21 | 27°27 | 4°24 | 5°32 | 16°26 | 18°39 | 24°32 | 3° 1 | 2°14 | 16°35 | 16° 9 | S 8 |
| M 9 | 9 18 6 | 20°50'47 | 14°12 | 7° 0 | 26°34 | 28°15 | 4°38 | 5°38 | 16°30 | 18°41 | 24°31 | 3° 2 | 2°11 | 16°41 | 16°13 | M 9 |
| T 10 | 9 22 3 | 21°51'24 | 26°25 | 7°R 7 | 27°46 | 29° 2 | 4°52 | 5°43 | 16°33 | 18°43 | 24°31 | 3° 3 | 2° 8 | 16°48 | 16°17 | T 10 |
| W11 | 9 25 59 | 22°52'00 | 8♑27 | 7° 3 | 28°59 | 29°50 | 5° 5 | 5°49 | 16°37 | 18°45 | 24°30 | 3° 5 | 2° 5 | 16°55 | 16°22 | W11 |
| T 12 | 9 29 56 | 23°52'34 | 20°20 | 6°49 | 0♈11 | 0♓37 | 5°19 | 5°55 | 16°40 | 18°47 | 24°30 | 3° 6 | 2° 1 | 17° 1 | 16°26 | T 12 |
| F 13 | 9 33 52 | 24°53'07 | 2♒ 8 | 6°25 | 1°24 | 1°24 | 5°33 | 6° 0 | 16°44 | 18°49 | 24°29 | 3°R 7 | 1°58 | 17° 8 | 16°31 | F 13 |
| S 14 | 9 37 49 | 25°53'39 | 13°55 | 5°52 | 2°36 | 2°12 | 5°47 | 6° 5 | 16°47 | 18°51 | 24°29 | 3° 6 | 1°55 | 17°15 | 16°35 | S 14 |
| S 15 | 9 41 46 | 26°54'09 | 25°43 | 5°10 | 3°48 | 2°59 | 6° 1 | 6°11 | 16°50 | 18°53 | 24°28 | 3° 5 | 1°52 | 17°21 | 16°40 | S 15 |
| M16 | 9 45 42 | 27°54'37 | 7♓33 | 4°20 | 5° 0 | 3°46 | 6°15 | 6°16 | 16°54 | 18°55 | 24°28 | 3° 2 | 1°49 | 17°28 | 16°44 | M16 |
| T 17 | 9 49 39 | 28°55'03 | 19°29 | 3°25 | 6°12 | 4°34 | 6°28 | 6°21 | 16°57 | 18°57 | 24°27 | 2°58 | 1°46 | 17°35 | 16°48 | T 17 |
| W18 | 9 53 35 | 29°55'28 | 1♈31 | 2°24 | 7°24 | 5°21 | 6°42 | 6°26 | 17° 1 | 18°59 | 24°27 | 2°53 | 1°42 | 17°41 | 16°53 | W18 |
| T 19 | 9 57 32 | 0♓55'51 | 13°41 | 1°21 | 8°36 | 6° 8 | 6°56 | 6°31 | 17° 4 | 19° 0 | 24°27 | 2°48 | 1°39 | 17°48 | 16°57 | T 19 |
| F 20 | 10 1 28 | 1°56'12 | 26° 3 | 0°16 | 9°48 | 6°56 | 7° 9 | 6°36 | 17° 8 | 19° 2 | 24°26 | 2°43 | 1°36 | 17°55 | 17° 2 | F 20 |
| S 21 | 10 5 25 | 2°56'31 | 8♉37 | 29♒11 | 10°59 | 7°43 | 7°23 | 6°41 | 17°11 | 19° 4 | 24°26 | 2°40 | 1°33 | 18° 1 | 17° 6 | S 21 |
| S 22 | 10 9 21 | 3°56'48 | 21°28 | 28° 8 | 12°11 | 8°30 | 7°36 | 6°46 | 17°14 | 19° 6 | 24°25 | 2°38 | 1°30 | 18° 8 | 17°10 | S 22 |
| M23 | 10 13 18 | 4°57'04 | 4♊38 | 27° 8 | 13°22 | 9°17 | 7°50 | 6°51 | 17°18 | 19° 8 | 24°25 | 2°D37 | 1°27 | 18°14 | 17°15 | M23 |
| T 24 | 10 17 14 | 5°57'17 | 18°10 | 26°12 | 14°33 | 10° 5 | 8° 3 | 6°56 | 17°21 | 19° 9 | 24°25 | 2°37 | 1°23 | 18°21 | 17°19 | T 24 |
| W25 | 10 21 11 | 6°57'28 | 2♋ 5 | 25°21 | 15°45 | 10°52 | 8°16 | 7° 0 | 17°24 | 19°11 | 24°25 | 2°39 | 1°20 | 18°28 | 17°23 | W25 |
| T 26 | 10 25 8 | 7°57'37 | 16°24 | 24°36 | 16°56 | 11°39 | 8°30 | 7° 5 | 17°28 | 19°13 | 24°24 | 2°40 | 1°17 | 18°34 | 17°27 | T 26 |
| F 27 | 10 29 4 | 8°57'43 | 1♌ 4 | 23°57 | 18° 7 | 12°26 | 8°43 | 7° 9 | 17°31 | 19°14 | 24°24 | 2°R41 | 1°14 | 18°41 | 17°32 | F 27 |
| S 28 | 10 33 1 | 9♓57'48 | 16♌ 3 | 23♒25 | 19♈18 | 13♓13 | 8♒56 | 7♑14 | 17♒34 | 19♑16 | 24♊24 | 2♌40 | 1♌11 | 18♒48 | 17♒36 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 1 | 15n31 | 1n50 | 11s17 | 0n 1 | 6s16 | 1s 9 | 15s14 | 1s 4 | 20s 1 | 0s27 | 22s37 | 0n46 | 16s41 | 0s40 | 21s36 | 0n37 | 17n11 | 6s11 | 19n30 | 19n37 | 17s15 | 10s16 | 6n11 |
| M 2 | 16 43 | 11 16 | 3 4 | 10 37 | 0 15 | 5 45 | 1 7 | 14 59 | 1 4 | 19 58 | 0 27 | 22 37 | 0 46 | 16 40 | 0 40 | 21 36 | 0 37 | 17 12 | 6 11 | 19 30 | 19 37 | 17 14 | 10 15 | 6 11 |
| T 3 | 16 26 | 6 23 | 4 4 | 9 59 | 0 29 | 5 14 | 1 4 | 14 43 | 1 4 | 19 55 | 0 27 | 22 37 | 0 46 | 16 39 | 0 40 | 21 36 | 0 37 | 17 12 | 6 11 | 19 30 | 19 38 | 17 13 | 10 13 | 6 11 |
| W 4 | 16 8 | 1 16 | 4 47 | 9 22 | 0 45 | 4 43 | 1 2 | 14 27 | 1 4 | 19 51 | 0 27 | 22 37 | 0 46 | 16 38 | 0 40 | 21 36 | 0 37 | 17 12 | 6 11 | 19 31 | 19 39 | 17 12 | 10 12 | 6 11 |
| T 5 | 15 50 | 3s46 | 5 11 | 8 48 | 1 0 | 4 12 | 0 59 | 14 11 | 1 3 | 19 48 | 0 27 | 22 36 | 0 46 | 16 37 | 0 40 | 21 35 | 0 37 | 17 12 | 6 11 | 19 31 | 19 40 | 17 10 | 10 11 | 6 11 |
| F 6 | 15 31 | 8 27 | 5 17 | 8 16 | 1 17 | 3 41 | 0 57 | 13 54 | 1 3 | 19 45 | 0 27 | 22 36 | 0 46 | 16 36 | 0 40 | 21 35 | 0 37 | 17 12 | 6 10 | 19 31 | 19 40 | 17 9 | 10 10 | 6 11 |
| S 7 | 15 12 | 12 35 | 5 5 | 7 48 | 1 33 | 3 10 | 0 54 | 13 38 | 1 3 | 19 42 | 0 28 | 22 36 | 0 46 | 16 35 | 0 40 | 21 35 | 0 37 | 17 12 | 6 10 | 19 31 | 19 41 | 17 8 | 10 8 | 6 11 |
| S 8 | 14 54 | 16 0 | 4 38 | 7 23 | 1 49 | 2 38 | 0 51 | 13 22 | 1 3 | 19 39 | 0 28 | 22 36 | 0 46 | 16 34 | 0 40 | 21 35 | 0 37 | 17 12 | 6 10 | 19 31 | 19 42 | 17 7 | 10 7 | 6 11 |
| M 9 | 14 34 | 18 35 | 3 59 | 7 1 | 2 5 | 2 7 | 0 49 | 13 5 | 1 2 | 19 35 | 0 28 | 22 36 | 0 46 | 16 33 | 0 40 | 21 34 | 0 37 | 17 12 | 6 10 | 19 31 | 19 42 | 17 6 | 10 6 | 6 11 |
| T 10 | 14 15 | 20 17 | 3 9 | 6 44 | 2 21 | 1 35 | 0 46 | 12 48 | 1 2 | 19 32 | 0 28 | 22 35 | 0 46 | 16 32 | 0 40 | 21 34 | 0 37 | 17 13 | 6 10 | 19 31 | 19 43 | 17 4 | 10 4 | 6 11 |
| W11 | 13 55 | 21 1 | 2 12 | 6 31 | 2 36 | 1 4 | 0 43 | 12 31 | 1 2 | 19 29 | 0 28 | 22 35 | 0 46 | 16 31 | 0 40 | 21 34 | 0 37 | 17 13 | 6 10 | 19 30 | 19 44 | 17 3 | 10 3 | 6 11 |
| T 12 | 13 35 | 20 47 | 1 10 | 6 23 | 2 50 | 0 32 | 0 40 | 12 14 | 1 2 | 19 26 | 0 28 | 22 35 | 0 46 | 16 30 | 0 40 | 21 33 | 0 37 | 17 13 | 6 9 | 19 30 | 19 45 | 17 2 | 10 2 | 6 11 |
| F 13 | 13 15 | 19 38 | 0 5 | 6 20 | 3 3 | 0 0 | 0 37 | 11 57 | 1 2 | 19 22 | 0 28 | 22 35 | 0 46 | 16 29 | 0 40 | 21 33 | 0 37 | 17 13 | 6 9 | 19 30 | 19 45 | 17 1 | 10 0 | 6 11 |
| S 14 | 12 55 | 17 38 | 0s59 | 6 21 | 3 15 | 0n31 | 0 34 | 11 40 | 1 1 | 19 19 | 0 28 | 22 34 | 0 46 | 16 28 | 0 40 | 21 33 | 0 37 | 17 13 | 6 9 | 19 30 | 19 46 | 17 0 | 9 59 | 6 11 |
| S 15 | 12 34 | 14 53 | 2 1 | 6 27 | 3 25 | 1 3 | 0 31 | 11 22 | 1 1 | 19 16 | 0 28 | 22 34 | 0 46 | 16 27 | 0 40 | 21 33 | 0 37 | 17 13 | 6 9 | 19 30 | 19 47 | 16 58 | 9 58 | 6 11 |
| M16 | 12 13 | 11 31 | 2 59 | 6 38 | 3 33 | 1 34 | 0 27 | 11 5 | 1 1 | 19 12 | 0 29 | 22 34 | 0 46 | 16 26 | 0 40 | 21 32 | 0 37 | 17 14 | 6 9 | 19 31 | 19 47 | 16 57 | 9 57 | 6 11 |
| T 17 | 11 52 | 7 40 | 3 48 | 6 52 | 3 39 | 2 6 | 0 24 | 10 47 | 1 0 | 19 9 | 0 29 | 22 34 | 0 46 | 16 25 | 0 40 | 21 32 | 0 37 | 17 14 | 6 9 | 19 32 | 19 48 | 16 56 | 9 55 | 6 11 |
| W18 | 11 31 | 3 30 | 4 28 | 7 10 | 3 43 | 2 37 | 0 21 | 10 30 | 1 0 | 19 6 | 0 29 | 22 34 | 0 46 | 16 24 | 0 40 | 21 32 | 0 37 | 17 14 | 6 8 | 19 33 | 19 49 | 16 55 | 9 54 | 6 11 |
| T 19 | 11 10 | 0n52 | 4 56 | 7 31 | 3 45 | 3 9 | 0 17 | 10 12 | 1 0 | 19 2 | 0 29 | 22 33 | 0 46 | 16 23 | 0 40 | 21 32 | 0 37 | 17 14 | 6 8 | 19 34 | 19 50 | 16 53 | 9 53 | 6 11 |
| F 20 | 10 48 | 5 14 | 5 11 | 7 54 | 3 44 | 3 40 | 0 14 | 9 54 | 1 0 | 18 59 | 0 29 | 22 33 | 0 46 | 16 22 | 0 40 | 21 31 | 0 37 | 17 14 | 6 8 | 19 35 | 19 50 | 16 52 | 9 51 | 6 11 |
| S 21 | 10 27 | 9 29 | 5 12 | 8 19 | 3 41 | 4 12 | 0 11 | 9 36 | 0 59 | 18 56 | 0 29 | 22 33 | 0 46 | 16 21 | 0 40 | 21 31 | 0 37 | 17 14 | 6 8 | 19 36 | 19 51 | 16 51 | 9 50 | 6 12 |
| S 22 | 10 5 | 13 23 | 4 57 | 8 46 | 3 36 | 4 43 | 0 7 | 9 18 | 0 59 | 18 52 | 0 29 | 22 33 | 0 46 | 16 20 | 0 40 | 21 31 | 0 37 | 17 15 | 6 8 | 19 36 | 19 52 | 16 50 | 9 48 | 6 12 |
| M23 | 9 43 | 16 45 | 4 26 | 9 13 | 3 29 | 5 14 | 0 4 | 9 0 | 0 59 | 18 49 | 0 29 | 22 32 | 0 46 | 16 19 | 0 40 | 21 31 | 0 37 | 17 15 | 6 7 | 19 37 | 19 52 | 16 48 | 9 47 | 6 12 |
| T 24 | 9 21 | 19 18 | 3 40 | 9 39 | 3 21 | 5 45 | 0n 0 | 8 42 | 0 58 | 18 46 | 0 30 | 22 32 | 0 46 | 16 18 | 0 40 | 21 30 | 0 37 | 17 15 | 6 7 | 19 37 | 19 53 | 16 47 | 9 46 | 6 12 |
| W25 | 8 58 | 20 48 | 2 40 | 10 6 | 3 11 | 6 16 | 0 4 | 8 24 | 0 58 | 18 42 | 0 30 | 22 32 | 0 46 | 16 17 | 0 40 | 21 30 | 0 37 | 17 15 | 6 7 | 19 36 | 19 54 | 16 46 | 9 44 | 6 12 |
| T 26 | 8 36 | 21 1 | 1 28 | 10 31 | 3 0 | 6 47 | 0 7 | 8 6 | 0 58 | 18 39 | 0 30 | 22 32 | 0 46 | 16 16 | 0 40 | 21 30 | 0 37 | 17 15 | 6 7 | 19 36 | 19 55 | 16 45 | 9 43 | 6 12 |
| F 27 | 8 13 | 19 49 | 0 9 | 10 55 | 2 48 | 7 17 | 0 11 | 7 47 | 0 57 | 18 36 | 0 30 | 22 31 | 0 46 | 16 15 | 0 40 | 21 30 | 0 37 | 17 15 | 6 7 | 19 36 | 19 55 | 16 43 | 9 42 | 6 12 |
| S 28 | 7s51 | 17n12 | 1n12 | 11s18 | 2n35 | 7n48 | 0n15 | 7s29 | 0s57 | 18s32 | 0s30 | 22s31 | 0n46 | 16s14 | 0s40 | 21s29 | 0n37 | 17n16 | 6s 7 | 19n36 | 19n56 | 16s42 | 9s40 | 6n12 |

Julian Day Number = 2329220.5, Delta T = 32.95 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°03'56, Lahiri = 19°10'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## MARCH 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 36 57 | 10♓57'51 | 1♍12 | 23°R 0 | 20♈28 | 14♓ 0 | 9♒ 9 | 7♑18 | 17♒38 | 19♑17 | 24°R24 | 2°R38 | 1♌ 7 | 18♒54 | 17♒40 | S 1 |
| M 2 | 10 40 54 | 11°57'51 | 16°22 | 22♒42 | 21°39 | 14°47 | 9°23 | 7°22 | 17°41 | 19°19 | 24♊24 | 2♌34 | 1° 4 | 19° 1 | 17°44 | M 2 |
| T 3 | 10 44 50 | 12°57'50 | 1♎23 | 22°30 | 22°50 | 15°34 | 9°36 | 7°27 | 17°44 | 19°21 | 24°24 | 2°28 | 1° 1 | 19° 8 | 17°48 | T 3 |
| W 4 | 10 48 47 | 13°57'47 | 16° 7 | 22°D25 | 24° 0 | 16°21 | 9°49 | 7°31 | 17°47 | 19°22 | 24°23 | 2°21 | 0°58 | 19°14 | 17°52 | W 4 |
| T 5 | 10 52 43 | 14°57'42 | 0♏26 | 22°27 | 25°10 | 17° 8 | 10° 2 | 7°35 | 17°50 | 19°24 | 24°23 | 2°15 | 0°55 | 19°21 | 17°57 | T 5 |
| F 6 | 10 56 40 | 15°57'35 | 14°16 | 22°34 | 26°20 | 17°55 | 10°14 | 7°39 | 17°54 | 19°25 | 24°23 | 2° 9 | 0°52 | 19°28 | 18° 1 | F 6 |
| S 7 | 11 0 37 | 16°57'27 | 27°38 | 22°47 | 27°30 | 18°42 | 10°27 | 7°43 | 17°57 | 19°26 | 24°23 | 2° 6 | 0°48 | 19°34 | 18° 5 | S 7 |
| S 8 | 11 4 33 | 17°57'17 | 10♐32 | 23° 6 | 28°40 | 19°29 | 10°40 | 7°47 | 18° 0 | 19°28 | 24°D23 | 2° 4 | 0°45 | 19°41 | 18° 9 | S 8 |
| M 9 | 11 8 30 | 18°57'06 | 23° 3 | 23°30 | 29°50 | 20°16 | 10°53 | 7°50 | 18° 3 | 19°29 | 24°23 | 2°D 4 | 0°42 | 19°48 | 18°13 | M 9 |
| T 10 | 11 12 26 | 19°56'53 | 5♑15 | 23°58 | 1♉ 0 | 21° 3 | 11° 5 | 7°54 | 18° 6 | 19°31 | 24°23 | 2° 4 | 0°39 | 19°54 | 18°17 | T 10 |
| W11 | 11 16 23 | 20°56'38 | 17°13 | 24°32 | 2° 9 | 21°50 | 11°18 | 7°57 | 18° 9 | 19°32 | 24°23 | 2° 6 | 0°36 | 20° 1 | 18°21 | W11 |
| T 12 | 11 20 19 | 21°56'21 | 29° 3 | 25° 9 | 3°18 | 22°37 | 11°30 | 8° 1 | 18°12 | 19°33 | 24°23 | 2°R 7 | 0°32 | 20° 8 | 18°24 | T 12 |
| F 13 | 11 24 16 | 22°56'02 | 10♒49 | 25°50 | 4°28 | 23°23 | 11°43 | 8° 4 | 18°15 | 19°35 | 24°23 | 2° 6 | 0°29 | 20°14 | 18°28 | F 13 |
| S 14 | 11 28 12 | 23°55'42 | 22°36 | 26°36 | 5°37 | 24°10 | 11°55 | 8° 8 | 18°18 | 19°36 | 24°24 | 2° 4 | 0°26 | 20°21 | 18°32 | S 14 |
| S 15 | 11 32 9 | 24°55'19 | 4♓26 | 27°24 | 6°46 | 24°57 | 12° 8 | 8°11 | 18°21 | 19°37 | 24°24 | 1°59 | 0°23 | 20°28 | 18°36 | S 15 |
| M16 | 11 36 6 | 25°54'55 | 16°22 | 28°16 | 7°54 | 25°44 | 12°20 | 8°14 | 18°24 | 19°38 | 24°24 | 1°52 | 0°20 | 20°34 | 18°40 | M16 |
| T 17 | 11 40 2 | 26°54'28 | 28°27 | 29°11 | 9° 3 | 26°30 | 12°32 | 8°17 | 18°27 | 19°39 | 24°24 | 1°43 | 0°17 | 20°41 | 18°43 | T 17 |
| W18 | 11 43 59 | 27°54'00 | 10♈41 | 0♓ 9 | 10°11 | 27°17 | 12°44 | 8°20 | 18°30 | 19°40 | 24°24 | 1°32 | 0°13 | 20°47 | 18°47 | W18 |
| T 19 | 11 47 55 | 28°53'29 | 23° 6 | 1°10 | 11°20 | 28° 3 | 12°56 | 8°23 | 18°33 | 19°42 | 24°25 | 1°21 | 0°10 | 20°54 | 18°51 | T 19 |
| F 20 | 11 51 52 | 29°52'56 | 5♉42 | 2°13 | 12°28 | 28°50 | 13° 8 | 8°26 | 18°36 | 19°43 | 24°25 | 1°11 | 0° 7 | 21° 1 | 18°54 | F 20 |
| S 21 | 11 55 48 | 0♈52'21 | 18°29 | 3°19 | 13°36 | 29°36 | 13°20 | 8°28 | 18°38 | 19°44 | 24°25 | 1° 2 | 0° 4 | 21° 7 | 18°58 | S 21 |
| S 22 | 11 59 45 | 1°51'44 | 1♊29 | 4°27 | 14°44 | 0♈23 | 13°31 | 8°31 | 18°41 | 19°45 | 24°25 | 0°56 | 0° 1 | 21°14 | 19° 2 | S 22 |
| M23 | 12 3 41 | 2°51'05 | 14°43 | 5°37 | 15°51 | 1° 9 | 13°43 | 8°33 | 18°44 | 19°46 | 24°26 | 0°52 | 29♋58 | 21°21 | 19° 5 | M23 |
| T 24 | 12 7 38 | 3°50'23 | 28°12 | 6°49 | 16°58 | 1°56 | 13°55 | 8°36 | 18°47 | 19°47 | 24°26 | 0°D51 | 29°54 | 21°27 | 19° 9 | T 24 |
| W25 | 12 11 34 | 4°49'39 | 11♋58 | 8° 4 | 18° 6 | 2°42 | 14° 6 | 8°38 | 18°49 | 19°47 | 24°26 | 0°51 | 29°51 | 21°34 | 19°12 | W25 |
| T 26 | 12 15 31 | 5°48'52 | 26° 2 | 9°20 | 19°13 | 3°28 | 14°17 | 8°40 | 18°52 | 19°48 | 24°27 | 0°R51 | 29°48 | 21°41 | 19°15 | T 26 |
| F 27 | 12 19 28 | 6°48'04 | 10♌23 | 10°39 | 20°19 | 4°15 | 14°29 | 8°43 | 18°55 | 19°49 | 24°27 | 0°51 | 29°45 | 21°47 | 19°19 | F 27 |
| S 28 | 12 23 24 | 7°47'12 | 25° 0 | 11°59 | 21°26 | 5° 1 | 14°40 | 8°45 | 18°57 | 19°50 | 24°28 | 0°49 | 29°42 | 21°54 | 19°22 | S 28 |
| S 29 | 12 27 21 | 8°46'19 | 9♍49 | 13°21 | 22°32 | 5°47 | 14°51 | 8°47 | 19° 0 | 19°51 | 24°28 | 0°44 | 29°38 | 22° 1 | 19°25 | S 29 |
| M30 | 12 31 17 | 9°45'23 | 24°42 | 14°45 | 23°38 | 6°33 | 15° 2 | 8°48 | 19° 2 | 19°52 | 24°29 | 0°37 | 29°35 | 22° 7 | 19°29 | M30 |
| T 31 | 12 35 14 | 10♈44'25 | 9♎31 | 16♓10 | 24♉44 | 7♈19 | 15♒13 | 8♑50 | 19♒ 5 | 19♑52 | 24♊29 | 0♌27 | 29♋32 | 22♒14 | 19♒32 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s28 | 13n23 | 2n29 | 11s39 | 2n21 | 8n18 | 0n19 | 7s10 | 0s57 | 18s29 | 0s30 | 22s31 | 0n46 | 16s13 | 0s40 | 21s29 | 0n37 | 17n16 | 6s 6 | 19n36 | 19n57 | 16s41 | 9s39 | 6n12 |
| M 2 | 7 5 | 8 42 | 3 35 | 11 58 | 2 7 | 8 48 | 0 22 | 6 52 | 0 56 | 18 26 | 0 30 | 22 31 | 0 46 | 16 12 | 0 40 | 21 29 | 0 37 | 17 16 | 6 6 | 19 37 | 19 57 | 16 39 | 9 38 | 6 12 |
| T 3 | 6 42 | 3 31 | 4 26 | 12 15 | 1 53 | 9 18 | 0 26 | 6 33 | 0 56 | 18 22 | 0 30 | 22 31 | 0 46 | 16 11 | 0 40 | 21 29 | 0 37 | 17 16 | 6 6 | 19 39 | 19 58 | 16 38 | 9 36 | 6 13 |
| W 4 | 6 19 | 1s46 | 4 58 | 12 30 | 1 39 | 9 48 | 0 30 | 6 15 | 0 55 | 18 19 | 0 31 | 22 30 | 0 46 | 16 10 | 0 40 | 21 28 | 0 37 | 17 16 | 6 6 | 19 40 | 19 59 | 16 37 | 9 35 | 6 13 |
| T 5 | 5 56 | 6 48 | 5 10 | 12 43 | 1 25 | 10 17 | 0 34 | 5 56 | 0 55 | 18 16 | 0 31 | 22 30 | 0 46 | 16 9 | 0 40 | 21 28 | 0 37 | 17 16 | 6 6 | 19 42 | 19 59 | 16 36 | 9 34 | 6 13 |
| F 6 | 5 33 | 11 19 | 5 3 | 12 54 | 1 11 | 10 46 | 0 38 | 5 37 | 0 55 | 18 12 | 0 31 | 22 30 | 0 46 | 16 8 | 0 40 | 21 28 | 0 37 | 17 17 | 6 5 | 19 43 | 20 0 | 16 34 | 9 32 | 6 13 |
| S 7 | 5 10 | 15 7 | 4 40 | 13 2 | 0 57 | 11 15 | 0 42 | 5 19 | 0 54 | 18 9 | 0 31 | 22 30 | 0 46 | 16 7 | 0 40 | 21 28 | 0 37 | 17 17 | 6 5 | 19 44 | 20 1 | 16 33 | 9 31 | 6 13 |
| S 8 | 4 46 | 18 3 | 4 3 | 13 9 | 0 44 | 11 44 | 0 46 | 5 0 | 0 54 | 18 5 | 0 31 | 22 29 | 0 46 | 16 6 | 0 40 | 21 28 | 0 37 | 17 17 | 6 5 | 19 44 | 20 1 | 16 32 | 9 30 | 6 13 |
| M 9 | 4 23 | 20 3 | 3 16 | 13 14 | 0 31 | 12 13 | 0 50 | 4 41 | 0 54 | 18 2 | 0 31 | 22 29 | 0 46 | 16 5 | 0 40 | 21 27 | 0 37 | 17 17 | 6 5 | 19 44 | 20 2 | 16 30 | 9 28 | 6 13 |
| T 10 | 3 59 | 21 3 | 2 20 | 13 16 | 0 18 | 12 41 | 0 54 | 4 22 | 0 53 | 17 59 | 0 31 | 22 29 | 0 46 | 16 4 | 0 40 | 21 27 | 0 37 | 17 17 | 6 5 | 19 44 | 20 3 | 16 29 | 9 27 | 6 14 |
| W11 | 3 36 | 21 3 | 1 20 | 13 17 | 0 6 | 13 9 | 0 58 | 4 3 | 0 53 | 17 55 | 0 32 | 22 29 | 0 46 | 16 3 | 0 40 | 21 27 | 0 37 | 17 18 | 6 4 | 19 44 | 20 4 | 16 28 | 9 26 | 6 14 |
| T 12 | 3 12 | 20 7 | 0 17 | 13 16 | 0s 6 | 13 36 | 1 2 | 3 44 | 0 52 | 17 52 | 0 32 | 22 29 | 0 46 | 16 2 | 0 40 | 21 27 | 0 37 | 17 18 | 6 4 | 19 43 | 20 4 | 16 26 | 9 24 | 6 14 |
| F 13 | 2 49 | 18 18 | 0s47 | 13 13 | 0 18 | 14 4 | 1 6 | 3 25 | 0 52 | 17 49 | 0 32 | 22 28 | 0 46 | 16 1 | 0 40 | 21 27 | 0 37 | 17 18 | 6 4 | 19 44 | 20 5 | 16 25 | 9 23 | 6 14 |
| S 14 | 2 25 | 15 43 | 1 48 | 13 8 | 0 29 | 14 31 | 1 10 | 3 6 | 0 51 | 17 46 | 0 32 | 22 28 | 0 46 | 16 0 | 0 40 | 21 26 | 0 37 | 17 18 | 6 4 | 19 44 | 20 6 | 16 24 | 9 22 | 6 14 |
| S 15 | 2 1 | 12 28 | 2 45 | 13 1 | 0 40 | 14 57 | 1 14 | 2 47 | 0 51 | 17 42 | 0 32 | 22 28 | 0 46 | 15 59 | 0 40 | 21 26 | 0 37 | 17 18 | 6 4 | 19 45 | 20 6 | 16 22 | 9 20 | 6 14 |
| M16 | 1 38 | 8 41 | 3 35 | 12 52 | 0 50 | 15 24 | 1 18 | 2 29 | 0 51 | 17 39 | 0 32 | 22 28 | 0 46 | 15 59 | 0 40 | 21 26 | 0 37 | 17 19 | 6 3 | 19 47 | 20 7 | 16 21 | 9 19 | 6 15 |
| T 17 | 1 14 | 4 31 | 4 16 | 12 42 | 0 59 | 15 50 | 1 22 | 2 10 | 0 50 | 17 36 | 0 33 | 22 28 | 0 46 | 15 58 | 0 40 | 21 26 | 0 37 | 17 19 | 6 3 | 19 49 | 20 8 | 16 20 | 9 18 | 6 15 |
| W18 | 0 50 | 0 8 | 4 45 | 12 31 | 1 9 | 16 15 | 1 26 | 1 51 | 0 50 | 17 32 | 0 33 | 22 27 | 0 46 | 15 57 | 0 40 | 21 26 | 0 37 | 17 19 | 6 3 | 19 51 | 20 8 | 16 18 | 9 16 | 6 15 |
| T 19 | 0 27 | 4n19 | 5 2 | 12 17 | 1 17 | 16 41 | 1 30 | 1 32 | 0 49 | 17 29 | 0 33 | 22 27 | 0 46 | 15 56 | 0 40 | 21 26 | 0 37 | 17 19 | 6 3 | 19 54 | 20 9 | 16 17 | 9 15 | 6 15 |
| F 20 | 0 3 | 8 40 | 5 4 | 12 2 | 1 25 | 17 6 | 1 34 | 1 13 | 0 49 | 17 26 | 0 33 | 22 27 | 0 46 | 15 55 | 0 40 | 21 25 | 0 37 | 17 19 | 6 3 | 19 56 | 20 10 | 16 16 | 9 14 | 6 16 |
| S 21 | 0n21 | 12 42 | 4 51 | 11 45 | 1 33 | 17 30 | 1 38 | 0 54 | 0 48 | 17 23 | 0 33 | 22 27 | 0 46 | 15 54 | 0 40 | 21 25 | 0 37 | 17 20 | 6 3 | 19 58 | 20 10 | 16 14 | 9 12 | 6 16 |
| S 22 | 0 45 | 16 12 | 4 23 | 11 27 | 1 40 | 17 54 | 1 42 | 0 35 | 0 48 | 17 20 | 0 33 | 22 27 | 0 46 | 15 53 | 0 40 | 21 25 | 0 37 | 17 20 | 6 2 | 19 59 | 20 11 | 16 13 | 9 11 | 6 16 |
| M23 | 1 8 | 18 57 | 3 40 | 11 8 | 1 47 | 18 18 | 1 46 | 0 16 | 0 47 | 17 16 | 0 33 | 22 27 | 0 46 | 15 53 | 0 40 | 21 25 | 0 37 | 17 20 | 6 2 | 20 0 | 20 12 | 16 12 | 9 10 | 6 16 |
| T 24 | 1 32 | 20 43 | 2 45 | 10 47 | 1 53 | 18 41 | 1 50 | 0n 3 | 0 47 | 17 13 | 0 34 | 22 26 | 0 46 | 15 52 | 0 40 | 21 25 | 0 37 | 17 20 | 6 2 | 20 0 | 20 12 | 16 10 | 9 8 | 6 16 |
| W25 | 1 55 | 21 18 | 1 39 | 10 24 | 1 59 | 19 4 | 1 53 | 0 22 | 0 46 | 17 10 | 0 34 | 22 26 | 0 46 | 15 51 | 0 40 | 21 25 | 0 37 | 17 20 | 6 2 | 20 0 | 20 13 | 16 9 | 9 7 | 6 17 |
| T 26 | 2 19 | 20 34 | 0 26 | 10 0 | 2 4 | 19 26 | 1 57 | 0 41 | 0 46 | 17 7 | 0 34 | 22 26 | 0 46 | 15 50 | 0 40 | 21 25 | 0 37 | 17 21 | 6 2 | 20 0 | 20 14 | 16 7 | 9 6 | 6 17 |
| F 27 | 2 42 | 18 29 | 0n51 | 9 35 | 2 9 | 19 48 | 2 1 | 1 0 | 0 46 | 17 4 | 0 34 | 22 26 | 0 46 | 15 49 | 0 40 | 21 24 | 0 37 | 17 21 | 6 1 | 20 0 | 20 14 | 16 6 | 9 5 | 6 17 |
| S 28 | 3 6 | 15 10 | 2 5 | 9 8 | 2 13 | 20 10 | 2 5 | 1 18 | 0 45 | 17 1 | 0 34 | 22 26 | 0 46 | 15 49 | 0 40 | 21 24 | 0 37 | 17 21 | 6 1 | 20 1 | 20 15 | 16 5 | 9 3 | 6 17 |
| S 29 | 3 29 | 10 52 | 3 12 | 8 40 | 2 17 | 20 31 | 2 9 | 1 37 | 0 45 | 16 57 | 0 34 | 22 26 | 0 46 | 15 48 | 0 41 | 21 24 | 0 37 | 17 21 | 6 1 | 20 2 | 20 16 | 16 3 | 9 2 | 6 18 |
| M30 | 3 52 | 5 52 | 4 6 | 8 10 | 2 20 | 20 51 | 2 12 | 1 56 | 0 44 | 16 54 | 0 35 | 22 26 | 0 46 | 15 47 | 0 41 | 21 24 | 0 37 | 17 21 | 6 1 | 20 3 | 20 16 | 16 2 | 9 1 | 6 18 |
| T 31 | 4n16 | 0n33 | 4n43 | 7s40 | 2s23 | 21n11 | 2n16 | 2n15 | 0s44 | 16s51 | 0s35 | 22s25 | 0n46 | 15s46 | 0s41 | 21s24 | 0n37 | 17n22 | 6s 1 | 20n 5 | 20n17 | 16s 0 | 9s 0 | 6n18 |

Julian Day Number = 2329248.5, Delta T = 32.90 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'00, Lahiri = 19°11'00Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## APRIL 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 39 10 | 11♈43'25 | 24♎ 8 | 17♓37 | 25♉50 | 8♈ 5 | 15♒24 | 8♑52 | 19♒ 7 | 19♑53 | 24♊30 | 0°R17 | 29♋29 | 22♒21 | 19♒35 | W 1 |
| T 2 | 12 43 7 | 12°42'23 | 8♏25 | 19° 6 | 26°55 | 8°51 | 15°35 | 8°53 | 19°10 | 19°54 | 24°30 | 0♌ 6 | 29°26 | 22°27 | 19°38 | T 2 |
| F 3 | 12 47 3 | 13°41'19 | 22°18 | 20°37 | 28° 1 | 9°37 | 15°45 | 8°55 | 19°12 | 19°54 | 24°31 | 29♋56 | 29°23 | 22°34 | 19°41 | F 3 |
| S 4 | 12 51 0 | 14°40'13 | 5♐43 | 22° 9 | 29° 6 | 10°23 | 15°56 | 8°56 | 19°14 | 19°55 | 24°31 | 29°48 | 29°19 | 22°41 | 19°44 | S 4 |
| S 5 | 12 54 57 | 15°39'05 | 18°41 | 23°42 | 0♊10 | 11° 9 | 16° 6 | 8°58 | 19°17 | 19°55 | 24°32 | 29°43 | 29°16 | 22°47 | 19°47 | S 5 |
| M 6 | 12 58 53 | 16°37'56 | 1♑16 | 25°18 | 1°15 | 11°55 | 16°16 | 8°59 | 19°19 | 19°56 | 24°33 | 29°40 | 29°13 | 22°54 | 19°50 | M 6 |
| T 7 | 13 2 50 | 17°36'45 | 13°30 | 26°54 | 2°19 | 12°41 | 16°27 | 9° 0 | 19°21 | 19°56 | 24°33 | 29°D39 | 29°10 | 23° 1 | 19°53 | T 7 |
| W 8 | 13 6 46 | 18°35'32 | 25°30 | 28°33 | 3°23 | 13°27 | 16°37 | 9° 1 | 19°23 | 19°57 | 24°34 | 29°R39 | 29° 7 | 23° 7 | 19°56 | W 8 |
| T 9 | 13 10 43 | 19°34'18 | 7♒21 | 0♈13 | 4°26 | 14°12 | 16°47 | 9° 2 | 19°25 | 19°57 | 24°35 | 29°39 | 29° 4 | 23°14 | 19°58 | T 9 |
| F 10 | 13 14 39 | 20°33'02 | 19° 8 | 1°54 | 5°30 | 14°58 | 16°57 | 9° 2 | 19°27 | 19°58 | 24°35 | 29°38 | 29° 0 | 23°21 | 20° 1 | F 10 |
| S 11 | 13 18 36 | 21°31'44 | 0♓57 | 3°37 | 6°33 | 15°44 | 17° 6 | 9° 3 | 19°29 | 19°58 | 24°36 | 29°34 | 28°57 | 23°27 | 20° 4 | S 11 |
| S 12 | 13 22 32 | 22°30'24 | 12°51 | 5°22 | 7°35 | 16°29 | 17°16 | 9° 4 | 19°31 | 19°58 | 24°37 | 29°28 | 28°54 | 23°34 | 20° 6 | S 12 |
| M13 | 13 26 29 | 23°29'02 | 24°55 | 7° 8 | 8°38 | 17°15 | 17°26 | 9° 4 | 19°33 | 19°59 | 24°38 | 29°19 | 28°51 | 23°41 | 20° 9 | M13 |
| T 14 | 13 30 26 | 24°27'38 | 7♈10 | 8°56 | 9°40 | 18° 0 | 17°35 | 9° 5 | 19°35 | 19°59 | 24°38 | 29° 8 | 28°48 | 23°47 | 20°11 | T 14 |
| W15 | 13 34 22 | 25°26'13 | 19°38 | 10°46 | 10°42 | 18°46 | 17°44 | 9° 5 | 19°37 | 19°59 | 24°39 | 28°55 | 28°44 | 23°54 | 20°14 | W15 |
| T 16 | 13 38 19 | 26°24'46 | 2♉20 | 12°37 | 11°43 | 19°31 | 17°53 | 9° 5 | 19°39 | 19°59 | 24°40 | 28°41 | 28°41 | 24° 0 | 20°16 | T 16 |
| F 17 | 13 42 15 | 27°23'17 | 15°15 | 14°30 | 12°44 | 20°17 | 18° 2 | 9° 5 | 19°41 | 19°59 | 24°41 | 28°28 | 28°38 | 24° 7 | 20°19 | F 17 |
| S 18 | 13 46 12 | 28°21'45 | 28°22 | 16°24 | 13°45 | 21° 2 | 18°11 | 9°R 5 | 19°43 | 20° 0 | 24°42 | 28°17 | 28°35 | 24°14 | 20°21 | S 18 |
| S 19 | 13 50 8 | 29°20'12 | 11♊40 | 18°20 | 14°45 | 21°47 | 18°20 | 9° 5 | 19°44 | 20° 0 | 24°43 | 28° 9 | 28°32 | 24°20 | 20°23 | S 19 |
| M20 | 13 54 5 | 0♉18'37 | 25° 9 | 20°18 | 15°45 | 22°32 | 18°29 | 9° 5 | 19°46 | 20° 0 | 24°43 | 28° 4 | 28°29 | 24°27 | 20°25 | M20 |
| T 21 | 13 58 1 | 1°17'00 | 8♋48 | 22°17 | 16°45 | 23°17 | 18°37 | 9° 5 | 19°48 | 20°R 0 | 24°44 | 28° 1 | 28°25 | 24°34 | 20°27 | T 21 |
| W22 | 14 1 58 | 2°15'21 | 22°37 | 24°18 | 17°44 | 24° 3 | 18°46 | 9° 4 | 19°49 | 20° 0 | 24°45 | 28° 0 | 28°22 | 24°40 | 20°29 | W22 |
| T 23 | 14 5 55 | 3°13'39 | 6♌37 | 26°20 | 18°43 | 24°48 | 18°54 | 9° 4 | 19°51 | 20° 0 | 24°46 | 28° 0 | 28°19 | 24°47 | 20°31 | T 23 |
| F 24 | 14 9 51 | 4°11'55 | 20°46 | 28°24 | 19°41 | 25°33 | 19° 2 | 9° 3 | 19°52 | 20° 0 | 24°47 | 28° 0 | 28°16 | 24°54 | 20°33 | F 24 |
| S 25 | 14 13 48 | 5°10'10 | 5♍ 5 | 0♉29 | 20°39 | 26°18 | 19°10 | 9° 3 | 19°54 | 20° 0 | 24°48 | 27°57 | 28°13 | 25° 0 | 20°35 | S 25 |
| S 26 | 14 17 44 | 6° 8'22 | 19°30 | 2°35 | 21°36 | 27° 2 | 19°18 | 9° 2 | 19°55 | 19°59 | 24°49 | 27°52 | 28° 9 | 25° 7 | 20°37 | S 26 |
| M27 | 14 21 41 | 7° 6'32 | 3♎57 | 4°43 | 22°33 | 27°47 | 19°26 | 9° 1 | 19°57 | 19°59 | 24°50 | 27°45 | 28° 6 | 25°14 | 20°39 | M27 |
| T 28 | 14 25 37 | 8° 4'40 | 18°22 | 6°51 | 23°30 | 28°32 | 19°33 | 9° 0 | 19°58 | 19°59 | 24°51 | 27°35 | 28° 3 | 25°20 | 20°41 | T 28 |
| W29 | 14 29 34 | 9° 2'46 | 2♏38 | 9° 0 | 24°25 | 29°17 | 19°41 | 8°59 | 19°59 | 19°59 | 24°52 | 27°23 | 28° 0 | 25°27 | 20°42 | W29 |
| T 30 | 14 33 30 | 10♉ 0'51 | 16♏39 | 11♉10 | 25♊21 | 0♉ 2 | 19♒48 | 8♑58 | 20♒ 0 | 19♑59 | 24♊53 | 27♋12 | 27♋57 | 25♒34 | 20♒44 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 4n39 | 4s43 | 5n 0 | 7s 8 | 2s25 | 21n31 | 2n20 | 2n33 | 0s43 | 16s48 | 0s35 | 22s25 | 0n46 | 15s46 | 0s41 | 21s24 | 0n37 | 17n22 | 6s 1 | 20n 8 | 20n18 | 15s59 | 8s58 | 6n19 |
| T 2 | 5 2 | 9 37 | 4 59 | 6 35 | 2 27 | 21 50 | 2 23 | 2 52 | 0 43 | 16 45 | 0 35 | 22 25 | 0 46 | 15 45 | 0 41 | 21 24 | 0 37 | 17 22 | 6 0 | 20 10 | 20 18 | 15 58 | 8 57 | 6 19 |
| F 3 | 5 25 | 13 52 | 4 40 | 6 0 | 2 29 | 22 8 | 2 27 | 3 11 | 0 42 | 16 42 | 0 35 | 22 25 | 0 46 | 15 44 | 0 41 | 21 24 | 0 37 | 17 22 | 6 0 | 20 12 | 20 19 | 15 56 | 8 56 | 6 19 |
| S 4 | 5 48 | 17 16 | 4 5 | 5 24 | 2 29 | 22 26 | 2 30 | 3 29 | 0 41 | 16 39 | 0 36 | 22 25 | 0 46 | 15 43 | 0 41 | 21 24 | 0 37 | 17 22 | 6 0 | 20 14 | 20 20 | 15 55 | 8 55 | 6 19 |
| S 5 | 6 10 | 19 41 | 3 19 | 4 48 | 2 30 | 22 44 | 2 34 | 3 48 | 0 41 | 16 36 | 0 36 | 22 25 | 0 46 | 15 43 | 0 41 | 21 23 | 0 37 | 17 23 | 6 0 | 20 15 | 20 20 | 15 53 | 8 54 | 6 20 |
| M 6 | 6 33 | 21 4 | 2 25 | 4 10 | 2 29 | 23 1 | 2 37 | 4 6 | 0 40 | 16 33 | 0 36 | 22 25 | 0 46 | 15 42 | 0 41 | 21 23 | 0 37 | 17 23 | 6 0 | 20 15 | 20 21 | 15 52 | 8 53 | 6 20 |
| T 7 | 6 55 | 21 23 | 1 25 | 3 30 | 2 29 | 23 17 | 2 41 | 4 24 | 0 40 | 16 31 | 0 36 | 22 25 | 0 46 | 15 41 | 0 41 | 21 23 | 0 37 | 17 23 | 5 59 | 20 16 | 20 22 | 15 50 | 8 51 | 6 20 |
| W 8 | 7 18 | 20 43 | 0 22 | 2 50 | 2 27 | 23 33 | 2 44 | 4 43 | 0 39 | 16 28 | 0 36 | 22 25 | 0 46 | 15 41 | 0 41 | 21 23 | 0 37 | 17 23 | 5 59 | 20 16 | 20 22 | 15 49 | 8 50 | 6 21 |
| T 9 | 7 40 | 19 7 | 0s41 | 2 9 | 2 26 | 23 48 | 2 47 | 5 1 | 0 39 | 16 25 | 0 36 | 22 25 | 0 46 | 15 40 | 0 41 | 21 23 | 0 37 | 17 23 | 5 59 | 20 16 | 20 23 | 15 48 | 8 49 | 6 21 |
| F 10 | 8 2 | 16 43 | 1 41 | 1 26 | 2 23 | 24 3 | 2 50 | 5 19 | 0 38 | 16 22 | 0 37 | 22 25 | 0 46 | 15 39 | 0 41 | 21 23 | 0 37 | 17 24 | 5 59 | 20 16 | 20 24 | 15 46 | 8 48 | 6 21 |
| S 11 | 8 24 | 13 37 | 2 38 | 0 43 | 2 21 | 24 17 | 2 53 | 5 37 | 0 38 | 16 19 | 0 37 | 22 25 | 0 46 | 15 39 | 0 41 | 21 23 | 0 37 | 17 24 | 5 59 | 20 17 | 20 24 | 15 45 | 8 47 | 6 21 |
| S 12 | 8 46 | 9 56 | 3 27 | 0n 2 | 2 17 | 24 31 | 2 56 | 5 55 | 0 37 | 16 17 | 0 37 | 22 25 | 0 46 | 15 38 | 0 41 | 21 23 | 0 37 | 17 24 | 5 59 | 20 18 | 20 25 | 15 43 | 8 46 | 6 22 |
| M13 | 9 8 | 5 50 | 4 9 | 0 48 | 2 14 | 24 44 | 2 59 | 6 13 | 0 37 | 16 14 | 0 37 | 22 25 | 0 46 | 15 38 | 0 41 | 21 23 | 0 37 | 17 24 | 5 58 | 20 20 | 20 26 | 15 42 | 8 45 | 6 22 |
| T 14 | 9 30 | 1 25 | 4 39 | 1 34 | 2 9 | 24 56 | 3 2 | 6 31 | 0 36 | 16 11 | 0 37 | 22 25 | 0 46 | 15 37 | 0 41 | 21 23 | 0 37 | 17 24 | 5 58 | 20 22 | 20 26 | 15 40 | 8 44 | 6 22 |
| W15 | 9 51 | 3n 7 | 4 56 | 2 22 | 2 4 | 25 8 | 3 5 | 6 49 | 0 36 | 16 8 | 0 38 | 22 24 | 0 46 | 15 37 | 0 41 | 21 23 | 0 37 | 17 25 | 5 58 | 20 25 | 20 27 | 15 39 | 8 42 | 6 23 |
| T 16 | 10 13 | 7 37 | 4 59 | 3 10 | 1 59 | 25 20 | 3 7 | 7 7 | 0 35 | 16 6 | 0 38 | 22 24 | 0 46 | 15 36 | 0 41 | 21 23 | 0 37 | 17 25 | 5 58 | 20 28 | 20 28 | 15 37 | 8 41 | 6 23 |
| F 17 | 10 34 | 11 51 | 4 48 | 3 59 | 1 53 | 25 30 | 3 10 | 7 24 | 0 34 | 16 3 | 0 38 | 22 24 | 0 46 | 15 35 | 0 41 | 21 23 | 0 37 | 17 25 | 5 58 | 20 30 | 20 28 | 15 36 | 8 40 | 6 23 |
| S 18 | 10 55 | 15 36 | 4 20 | 4 49 | 1 47 | 25 40 | 3 12 | 7 42 | 0 34 | 16 1 | 0 38 | 22 24 | 0 46 | 15 35 | 0 41 | 21 23 | 0 37 | 17 25 | 5 58 | 20 32 | 20 29 | 15 34 | 8 39 | 6 24 |
| S 19 | 11 15 | 18 37 | 3 39 | 5 39 | 1 40 | 25 50 | 3 15 | 7 59 | 0 33 | 15 58 | 0 38 | 22 24 | 0 46 | 15 34 | 0 41 | 21 23 | 0 37 | 17 25 | 5 57 | 20 34 | 20 30 | 15 33 | 8 38 | 6 24 |
| M20 | 11 36 | 20 39 | 2 44 | 6 31 | 1 33 | 25 59 | 3 17 | 8 17 | 0 33 | 15 56 | 0 39 | 22 24 | 0 46 | 15 34 | 0 41 | 21 23 | 0 37 | 17 26 | 5 57 | 20 35 | 20 30 | 15 31 | 8 37 | 6 24 |
| T 21 | 11 56 | 21 32 | 1 40 | 7 22 | 1 25 | 26 7 | 3 19 | 8 34 | 0 32 | 15 53 | 0 39 | 22 25 | 0 46 | 15 33 | 0 41 | 21 23 | 0 37 | 17 26 | 5 57 | 20 36 | 20 31 | 15 30 | 8 36 | 6 25 |
| W22 | 12 17 | 21 7 | 0 28 | 8 15 | 1 17 | 26 15 | 3 21 | 8 51 | 0 32 | 15 51 | 0 39 | 22 25 | 0 46 | 15 33 | 0 41 | 21 23 | 0 37 | 17 26 | 5 57 | 20 36 | 20 31 | 15 28 | 8 35 | 6 25 |
| T 23 | 12 37 | 19 23 | 0n45 | 9 7 | 1 8 | 26 22 | 3 23 | 9 8 | 0 31 | 15 48 | 0 39 | 22 25 | 0 46 | 15 33 | 0 41 | 21 23 | 0 37 | 17 26 | 5 57 | 20 36 | 20 32 | 15 27 | 8 34 | 6 26 |
| F 24 | 12 57 | 16 27 | 1 57 | 10 0 | 0 59 | 26 29 | 3 25 | 9 25 | 0 30 | 15 46 | 0 39 | 22 25 | 0 46 | 15 32 | 0 41 | 21 23 | 0 37 | 17 26 | 5 57 | 20 36 | 20 33 | 15 25 | 8 33 | 6 26 |
| S 25 | 13 16 | 12 30 | 3 3 | 10 53 | 0 50 | 26 35 | 3 27 | 9 42 | 0 30 | 15 44 | 0 40 | 22 25 | 0 46 | 15 32 | 0 41 | 21 23 | 0 37 | 17 27 | 5 56 | 20 36 | 20 33 | 15 24 | 8 33 | 6 26 |
| S 26 | 13 35 | 7 48 | 3 57 | 11 46 | 0 40 | 26 41 | 3 28 | 9 59 | 0 29 | 15 41 | 0 40 | 22 25 | 0 46 | 15 31 | 0 41 | 21 23 | 0 37 | 17 27 | 5 56 | 20 37 | 20 34 | 15 22 | 8 32 | 6 27 |
| M27 | 13 55 | 2 39 | 4 36 | 12 38 | 0 30 | 26 46 | 3 30 | 10 16 | 0 29 | 15 39 | 0 40 | 22 25 | 0 46 | 15 31 | 0 41 | 21 23 | 0 37 | 17 27 | 5 56 | 20 39 | 20 35 | 15 21 | 8 31 | 6 27 |
| T 28 | 14 14 | 2s38 | 4 57 | 13 31 | 0 20 | 26 50 | 3 31 | 10 32 | 0 28 | 15 37 | 0 40 | 22 25 | 0 46 | 15 30 | 0 42 | 21 23 | 0 37 | 17 27 | 5 56 | 20 41 | 20 35 | 15 19 | 8 30 | 6 27 |
| W29 | 14 32 | 7 43 | 5 0 | 14 22 | 0 10 | 26 54 | 3 32 | 10 49 | 0 27 | 15 35 | 0 41 | 22 25 | 0 46 | 15 30 | 0 42 | 21 23 | 0 37 | 17 27 | 5 56 | 20 43 | 20 36 | 15 18 | 8 29 | 6 28 |
| T 30 | 14n51 | 12s18 | 4n44 | 15n13 | 0n 1 | 26n57 | 3n33 | 11n 5 | 0s27 | 15s33 | 0s41 | 22s25 | 0n46 | 15s30 | 0s42 | 21s23 | 0n37 | 17n27 | 5s56 | 20n45 | 20n37 | 15s16 | 8s28 | 6n28 |

Julian Day Number = 2329279.5, Delta T = 32.85 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'04, Lahiri = 19°11'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## MAY 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 37 27 | 10♉58'54 | 0♐20 | 13♉20 | 26♊16 | 0♉46 | 19♒55 | 8°R56 | 20♒ 2 | 19°R58 | 24♊54 | 27°R 1 | 27♋54 | 25♒40 | 20♒45 | F 1 |
| S 2 | 14 41 24 | 11°56'55 | 13°39 | 15°30 | 27°10 | 1°31 | 20° 2 | 8♏55 | 20° 3 | 19♏58 | 24°56 | 26♋53 | 27°50 | 25°47 | 20°47 | S 2 |
| S 3 | 14 45 20 | 12°54'55 | 26°35 | 17°40 | 28° 3 | 2°15 | 20° 9 | 8°54 | 20° 4 | 19°58 | 24°57 | 26°47 | 27°47 | 25°54 | 20°48 | S 3 |
| M 4 | 14 49 17 | 13°52'54 | 9♏ 9 | 19°50 | 28°56 | 3° 0 | 20°16 | 8°52 | 20° 5 | 19°57 | 24°58 | 26°44 | 27°44 | 26° 0 | 20°50 | M 4 |
| T 5 | 14 53 13 | 14°50'51 | 21°25 | 21°58 | 29°49 | 3°44 | 20°22 | 8°51 | 20° 6 | 19°57 | 24°59 | 26°D42 | 27°41 | 26° 7 | 20°51 | T 5 |
| W 6 | 14 57 10 | 15°48'47 | 3♒27 | 24° 6 | 0♋40 | 4°29 | 20°29 | 8°49 | 20° 7 | 19°56 | 25° 0 | 26°42 | 27°38 | 26°14 | 20°52 | W 6 |
| T 7 | 15 1 6 | 16°46'41 | 15°19 | 26°12 | 1°31 | 5°13 | 20°35 | 8°47 | 20° 8 | 19°56 | 25° 1 | 26°R43 | 27°35 | 26°20 | 20°53 | T 7 |
| F 8 | 15 5 3 | 17°44'34 | 27° 8 | 28°17 | 2°22 | 5°57 | 20°41 | 8°45 | 20° 8 | 19°55 | 25° 2 | 26°42 | 27°31 | 26°27 | 20°54 | F 8 |
| S 9 | 15 8 59 | 18°42'26 | 8♓59 | 0♊20 | 3°11 | 6°42 | 20°47 | 8°43 | 20° 9 | 19°55 | 25° 4 | 26°40 | 27°28 | 26°34 | 20°55 | S 9 |
| S 10 | 15 12 56 | 19°40'17 | 20°57 | 2°21 | 4° 0 | 7°26 | 20°53 | 8°41 | 20°10 | 19°54 | 25° 5 | 26°36 | 27°25 | 26°40 | 20°56 | S 10 |
| M11 | 15 16 53 | 20°38'06 | 3♈ 6 | 4°19 | 4°48 | 8°10 | 20°58 | 8°39 | 20°11 | 19°54 | 25° 6 | 26°29 | 27°22 | 26°47 | 20°57 | M11 |
| T 12 | 15 20 49 | 21°35'54 | 15°29 | 6°16 | 5°35 | 8°54 | 21° 4 | 8°37 | 20°11 | 19°53 | 25° 7 | 26°21 | 27°19 | 26°54 | 20°58 | T 12 |
| W13 | 15 24 46 | 22°33'41 | 28° 9 | 8° 9 | 6°22 | 9°38 | 21° 9 | 8°35 | 20°12 | 19°52 | 25° 9 | 26°10 | 27°15 | 27° 0 | 20°59 | W13 |
| T 14 | 15 28 42 | 23°31'27 | 11♉ 6 | 10° 0 | 7° 7 | 10°22 | 21°14 | 8°32 | 20°12 | 19°52 | 25°10 | 25°59 | 27°12 | 27° 7 | 21° 0 | T 14 |
| F 15 | 15 32 39 | 24°29'11 | 24°20 | 11°48 | 7°52 | 11° 6 | 21°19 | 8°30 | 20°13 | 19°51 | 25°11 | 25°49 | 27° 9 | 27°14 | 21° 0 | F 15 |
| S 16 | 15 36 35 | 25°26'54 | 7♊50 | 13°33 | 8°36 | 11°50 | 21°24 | 8°27 | 20°13 | 19°50 | 25°12 | 25°40 | 27° 6 | 27°20 | 21° 1 | S 16 |
| S 17 | 15 40 32 | 26°24'36 | 21°32 | 15°14 | 9°19 | 12°34 | 21°28 | 8°25 | 20°14 | 19°49 | 25°14 | 25°33 | 27° 3 | 27°27 | 21° 2 | S 17 |
| M18 | 15 44 28 | 27°22'16 | 5♋24 | 16°53 | 10° 0 | 13°17 | 21°33 | 8°22 | 20°14 | 19°49 | 25°15 | 25°29 | 27° 0 | 27°34 | 21° 2 | M18 |
| T 19 | 15 48 25 | 28°19'55 | 19°24 | 18°29 | 10°41 | 14° 1 | 21°37 | 8°19 | 20°14 | 19°48 | 25°16 | 25°D28 | 26°56 | 27°40 | 21° 2 | T 19 |
| W20 | 15 52 22 | 29°17'33 | 3♌28 | 20° 2 | 11°21 | 14°45 | 21°41 | 8°16 | 20°15 | 19°47 | 25°17 | 25°28 | 26°53 | 27°47 | 21° 3 | W20 |
| T 21 | 15 56 18 | 0♊15'08 | 17°35 | 21°31 | 11°59 | 15°28 | 21°45 | 8°13 | 20°15 | 19°46 | 25°19 | 25°29 | 26°50 | 27°54 | 21° 3 | T 21 |
| F 22 | 16 0 15 | 1°12'43 | 1♍44 | 22°57 | 12°36 | 16°12 | 21°49 | 8°10 | 20°15 | 19°45 | 25°20 | 25°R29 | 26°47 | 28° 0 | 21° 3 | F 22 |
| S 23 | 16 4 11 | 2°10'15 | 15°54 | 24°20 | 13°12 | 16°55 | 21°52 | 8° 7 | 20°15 | 19°44 | 25°21 | 25°28 | 26°44 | 28° 7 | 21° 4 | S 23 |
| S 24 | 16 8 8 | 3° 7'47 | 0♎ 2 | 25°39 | 13°47 | 17°39 | 21°56 | 8° 4 | 20°15 | 19°43 | 25°23 | 25°25 | 26°41 | 28°14 | 21° 4 | S 24 |
| M25 | 16 12 4 | 4° 5'16 | 14° 7 | 26°55 | 14°21 | 18°22 | 21°59 | 8° 1 | 20°R15 | 19°42 | 25°24 | 25°21 | 26°37 | 28°20 | 21°R 4 | M25 |
| T 26 | 16 16 1 | 5° 2'45 | 28° 5 | 28° 8 | 14°53 | 19° 5 | 22° 2 | 7°58 | 20°15 | 19°41 | 25°26 | 25°14 | 26°34 | 28°27 | 21° 4 | T 26 |
| W27 | 16 19 57 | 6° 0'12 | 11♏54 | 29°17 | 15°23 | 19°49 | 22° 4 | 7°54 | 20°15 | 19°40 | 25°27 | 25° 6 | 26°31 | 28°34 | 21° 4 | W27 |
| T 28 | 16 23 54 | 6°57'39 | 25°30 | 0♋23 | 15°52 | 20°32 | 22° 7 | 7°51 | 20°15 | 19°39 | 25°28 | 24°58 | 26°28 | 28°40 | 21° 3 | T 28 |
| F 29 | 16 27 51 | 7°55'04 | 8♐50 | 1°25 | 16°20 | 21°15 | 22°10 | 7°47 | 20°15 | 19°38 | 25°30 | 24°51 | 26°25 | 28°47 | 21° 3 | F 29 |
| S 30 | 16 31 47 | 8°52'28 | 21°53 | 2°23 | 16°46 | 21°58 | 22°12 | 7°44 | 20°15 | 19°37 | 25°31 | 24°45 | 26°21 | 28°54 | 21° 3 | S 30 |
| S 31 | 16 35 44 | 9♊49'52 | 4♏38 | 3♋18 | 17♋10 | 22♉41 | 22♒14 | 7♏40 | 20♒14 | 19♏36 | 25♊32 | 24♋41 | 26♋18 | 29♒ 0 | 21♒ 3 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 15n 9 | 16s 9 | 4n12 | 16n 3 | 0n12 | 27n 0 | 3n34 | 11n21 | 0s26 | 15s31 | 0s41 | 22s25 | 0n46 | 15s29 | 0s42 | 21s23 | 0n37 | 17n28 | 5s56 | 20n47 | 20n37 | 15s15 | 8s27 | 6n28 |
| S 2 | 15 27 | 19 3 | 3 27 | 16 52 | 0 22 | 27 2 | 3 35 | 11 37 | 0 26 | 15 29 | 0 41 | 22 25 | 0 46 | 15 29 | 0 42 | 21 23 | 0 37 | 17 28 | 5 55 | 20 49 | 20 38 | 15 13 | 8 27 | 6 29 |
| S 3 | 15 45 | 20 54 | 2 33 | 17 39 | 0 33 | 27 3 | 3 35 | 11 53 | 0 25 | 15 27 | 0 41 | 22 25 | 0 46 | 15 29 | 0 42 | 21 23 | 0 37 | 17 28 | 5 55 | 20 50 | 20 38 | 15 12 | 8 26 | 6 29 |
| M 4 | 16 2 | 21 38 | 1 32 | 18 25 | 0 43 | 27 4 | 3 36 | 12 9 | 0 24 | 15 25 | 0 42 | 22 25 | 0 46 | 15 29 | 0 42 | 21 23 | 0 37 | 17 28 | 5 55 | 20 51 | 20 39 | 15 10 | 8 25 | 6 30 |
| T 5 | 16 19 | 21 19 | 0 28 | 19 9 | 0 53 | 27 5 | 3 36 | 12 25 | 0 24 | 15 23 | 0 42 | 22 26 | 0 46 | 15 28 | 0 42 | 21 23 | 0 37 | 17 28 | 5 55 | 20 51 | 20 40 | 15 9 | 8 24 | 6 30 |
| W 6 | 16 36 | 20 0 | 0s36 | 19 51 | 1 3 | 27 5 | 3 36 | 12 40 | 0 23 | 15 21 | 0 42 | 22 26 | 0 46 | 15 28 | 0 42 | 21 23 | 0 37 | 17 29 | 5 55 | 20 51 | 20 40 | 15 7 | 8 23 | 6 30 |
| T 7 | 16 53 | 17 49 | 1 37 | 20 31 | 1 12 | 27 4 | 3 36 | 12 56 | 0 22 | 15 20 | 0 42 | 22 26 | 0 46 | 15 28 | 0 42 | 21 23 | 0 37 | 17 29 | 5 55 | 20 51 | 20 41 | 15 5 | 8 23 | 6 31 |
| F 8 | 17 9 | 14 54 | 2 35 | 21 8 | 1 21 | 27 3 | 3 35 | 13 11 | 0 22 | 15 18 | 0 43 | 22 26 | 0 46 | 15 27 | 0 42 | 21 23 | 0 37 | 17 29 | 5 55 | 20 51 | 20 42 | 15 4 | 8 22 | 6 31 |
| S 9 | 17 25 | 11 23 | 3 25 | 21 43 | 1 30 | 27 2 | 3 35 | 13 26 | 0 21 | 15 16 | 0 43 | 22 26 | 0 46 | 15 27 | 0 42 | 21 23 | 0 37 | 17 29 | 5 55 | 20 52 | 20 42 | 15 2 | 8 21 | 6 32 |
| S 10 | 17 41 | 7 23 | 4 7 | 22 16 | 1 38 | 26 59 | 3 34 | 13 41 | 0 21 | 15 15 | 0 43 | 22 26 | 0 46 | 15 27 | 0 42 | 21 23 | 0 37 | 17 29 | 5 54 | 20 52 | 20 43 | 15 1 | 8 21 | 6 32 |
| M11 | 17 57 | 3 2 | 4 39 | 22 46 | 1 45 | 26 57 | 3 33 | 13 56 | 0 20 | 15 13 | 0 43 | 22 26 | 0 46 | 15 27 | 0 42 | 21 23 | 0 37 | 17 29 | 5 54 | 20 54 | 20 43 | 14 59 | 8 20 | 6 32 |
| T 12 | 18 12 | 1n31 | 4 58 | 23 13 | 1 52 | 26 54 | 3 32 | 14 11 | 0 19 | 15 11 | 0 44 | 22 27 | 0 46 | 15 27 | 0 42 | 21 23 | 0 37 | 17 30 | 5 54 | 20 55 | 20 44 | 14 58 | 8 19 | 6 33 |
| W13 | 18 27 | 6 7 | 5 3 | 23 38 | 1 58 | 26 51 | 3 31 | 14 26 | 0 19 | 15 10 | 0 44 | 22 27 | 0 46 | 15 27 | 0 42 | 21 23 | 0 37 | 17 30 | 5 54 | 20 57 | 20 45 | 14 56 | 8 19 | 6 33 |
| T 14 | 18 41 | 10 32 | 4 53 | 24 1 | 2 3 | 26 47 | 3 30 | 14 40 | 0 18 | 15 9 | 0 44 | 22 27 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 30 | 5 54 | 20 59 | 20 45 | 14 54 | 8 18 | 6 33 |
| F 15 | 18 56 | 14 34 | 4 27 | 24 20 | 2 7 | 26 42 | 3 28 | 14 54 | 0 17 | 15 7 | 0 44 | 22 27 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 30 | 5 54 | 21 1 | 20 46 | 14 53 | 8 18 | 6 34 |
| S 16 | 19 9 | 17 56 | 3 46 | 24 38 | 2 11 | 26 38 | 3 26 | 15 9 | 0 17 | 15 6 | 0 45 | 22 27 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 30 | 5 54 | 21 3 | 20 47 | 14 51 | 8 17 | 6 34 |
| S 17 | 19 23 | 20 22 | 2 51 | 24 53 | 2 14 | 26 33 | 3 24 | 15 23 | 0 16 | 15 5 | 0 45 | 22 28 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 30 | 5 54 | 21 4 | 20 47 | 14 50 | 8 16 | 6 35 |
| M18 | 19 36 | 21 37 | 1 45 | 25 5 | 2 16 | 26 27 | 3 21 | 15 36 | 0 16 | 15 3 | 0 45 | 22 28 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 31 | 5 53 | 21 5 | 20 48 | 14 48 | 8 16 | 6 35 |
| T 19 | 19 49 | 21 32 | 0 32 | 25 15 | 2 17 | 26 21 | 3 19 | 15 50 | 0 15 | 15 2 | 0 45 | 22 28 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 31 | 5 53 | 21 5 | 20 48 | 14 46 | 8 15 | 6 35 |
| W20 | 20 2 | 20 7 | 0n43 | 25 23 | 2 17 | 26 15 | 3 16 | 16 4 | 0 14 | 15 1 | 0 46 | 22 28 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 31 | 5 53 | 21 5 | 20 49 | 14 45 | 8 15 | 6 36 |
| T 21 | 20 14 | 17 26 | 1 56 | 25 29 | 2 17 | 26 8 | 3 13 | 16 17 | 0 14 | 15 0 | 0 46 | 22 28 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 31 | 5 53 | 21 5 | 20 50 | 14 43 | 8 14 | 6 36 |
| F 22 | 20 26 | 13 42 | 3 2 | 25 33 | 2 16 | 26 1 | 3 9 | 16 30 | 0 13 | 14 59 | 0 46 | 22 29 | 0 45 | 15 26 | 0 42 | 21 24 | 0 37 | 17 31 | 5 53 | 21 5 | 20 50 | 14 42 | 8 14 | 6 37 |
| S 23 | 20 38 | 9 13 | 3 57 | 25 35 | 2 14 | 25 54 | 3 6 | 16 43 | 0 12 | 14 58 | 0 46 | 22 29 | 0 45 | 15 26 | 0 42 | 21 25 | 0 37 | 17 31 | 5 53 | 21 5 | 20 51 | 14 40 | 8 14 | 6 37 |
| S 24 | 20 49 | 4 14 | 4 38 | 25 35 | 2 11 | 25 47 | 3 2 | 16 56 | 0 12 | 14 57 | 0 47 | 22 29 | 0 45 | 15 26 | 0 43 | 21 25 | 0 37 | 17 31 | 5 53 | 21 6 | 20 51 | 14 38 | 8 13 | 6 37 |
| M25 | 21 0 | 0s57 | 5 1 | 25 34 | 2 7 | 25 39 | 2 57 | 17 9 | 0 11 | 14 57 | 0 47 | 22 29 | 0 45 | 15 26 | 0 43 | 21 25 | 0 37 | 17 32 | 5 53 | 21 6 | 20 52 | 14 37 | 8 13 | 6 38 |
| T 26 | 21 11 | 6 2 | 5 6 | 25 30 | 2 2 | 25 31 | 2 53 | 17 21 | 0 10 | 14 56 | 0 47 | 22 29 | 0 45 | 15 26 | 0 43 | 21 25 | 0 37 | 17 32 | 5 53 | 21 8 | 20 53 | 14 35 | 8 12 | 6 38 |
| W27 | 21 21 | 10 46 | 4 54 | 25 26 | 1 57 | 25 22 | 2 48 | 17 34 | 0 10 | 14 55 | 0 47 | 22 30 | 0 45 | 15 26 | 0 43 | 21 25 | 0 37 | 17 32 | 5 53 | 21 9 | 20 53 | 14 33 | 8 12 | 6 39 |
| T 28 | 21 31 | 14 53 | 4 25 | 25 20 | 1 51 | 25 14 | 2 43 | 17 46 | 0 9 | 14 55 | 0 48 | 22 30 | 0 45 | 15 26 | 0 43 | 21 25 | 0 37 | 17 32 | 5 52 | 21 10 | 20 54 | 14 32 | 8 12 | 6 39 |
| F 29 | 21 40 | 18 10 | 3 42 | 25 12 | 1 44 | 25 5 | 2 37 | 17 58 | 0 8 | 14 54 | 0 48 | 22 30 | 0 45 | 15 26 | 0 43 | 21 25 | 0 37 | 17 32 | 5 52 | 21 12 | 20 54 | 14 30 | 8 12 | 6 39 |
| S 30 | 21 49 | 20 27 | 2 48 | 25 4 | 1 36 | 24 56 | 2 31 | 18 10 | 0 8 | 14 54 | 0 48 | 22 30 | 0 45 | 15 26 | 0 43 | 21 26 | 0 37 | 17 32 | 5 52 | 21 13 | 20 55 | 14 29 | 8 11 | 6 40 |
| S 31 | 21n58 | 21s38 | 1n46 | 24n54 | 1n27 | 24n46 | 2n25 | 18n22 | 0s 7 | 14s53 | 0s48 | 22s31 | 0n45 | 15s26 | 0s43 | 21s26 | 0n37 | 17n32 | 5s52 | 21n14 | 20n56 | 14s27 | 8s11 | 6n40 |

Julian Day Number = 2329309.5, Delta T = 32.79 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'08, Lahiri = 19°11'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## JUNE 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 39 40 | 10♊47'15 | 17♉ 6 | 4♋ 9 | 17♋33 | 23♌24 | 22♒16 | 7°R37 | 20°R14 | 19°R35 | 25♊34 | 24°R39 | 26♋15 | 29♒ 7 | 21°R 2 | M 1 |
| T 2 | 16 43 37 | 11°44'37 | 29°18 | 4°56 | 17°53 | 24° 7 | 22°17 | 7♉33 | 20♒14 | 19♉34 | 25°35 | 24°D39 | 26°12 | 29°14 | 21♒ 2 | T 2 |
| W 3 | 16 47 33 | 12°41'58 | 11♒19 | 5°39 | 18°12 | 24°50 | 22°19 | 7°29 | 20°13 | 19°32 | 25°37 | 24♋40 | 26° 9 | 29°20 | 21° 1 | W 3 |
| T 4 | 16 51 30 | 13°39'18 | 23°12 | 6°17 | 18°30 | 25°33 | 22°20 | 7°25 | 20°13 | 19°31 | 25°38 | 24°42 | 26° 6 | 29°27 | 21° 1 | T 4 |
| F 5 | 16 55 26 | 14°36'39 | 5♓ 2 | 6°52 | 18°45 | 26°15 | 22°21 | 7°22 | 20°12 | 19°30 | 25°40 | 24°43 | 26° 2 | 29°34 | 21° 0 | F 5 |
| S 6 | 16 59 23 | 15°33'58 | 16°54 | 7°23 | 18°58 | 26°58 | 22°22 | 7°18 | 20°12 | 19°29 | 25°41 | 24°R43 | 25°59 | 29°40 | 20°59 | S 6 |
| S 7 | 17 3 20 | 16°31'17 | 28°53 | 7°49 | 19° 9 | 27°41 | 22°23 | 7°14 | 20°11 | 19°27 | 25°42 | 24°43 | 25°56 | 29°47 | 20°58 | S 7 |
| M 8 | 17 7 16 | 17°28'36 | 11♈ 4 | 8°10 | 19°18 | 28°23 | 22°24 | 7°10 | 20°10 | 19°26 | 25°44 | 24°40 | 25°53 | 29°54 | 20°58 | M 8 |
| T 9 | 17 11 13 | 18°25'54 | 23°31 | 8°27 | 19°25 | 29° 6 | 22°24 | 7° 6 | 20°10 | 19°25 | 25°45 | 24°36 | 25°50 | 0♓ 0 | 20°57 | T 9 |
| W10 | 17 15 9 | 19°23'12 | 6♉17 | 8°40 | 19°29 | 29°48 | 22°R24 | 7° 2 | 20° 9 | 19°23 | 25°47 | 24°31 | 25°47 | 0° 7 | 20°56 | W10 |
| T 11 | 17 19 6 | 20°20'29 | 19°24 | 8°48 | 19°32 | 0♊31 | 22°24 | 6°57 | 20° 8 | 19°22 | 25°48 | 24°26 | 25°43 | 0°14 | 20°55 | T 11 |
| F 12 | 17 23 2 | 21°17'47 | 2♊52 | 8°R52 | 19°R32 | 1°13 | 22°24 | 6°53 | 20° 7 | 19°21 | 25°50 | 24°21 | 25°40 | 0°20 | 20°54 | F 12 |
| S 13 | 17 26 59 | 22°15'03 | 16°40 | 8°51 | 19°30 | 1°56 | 22°24 | 6°49 | 20° 6 | 19°19 | 25°51 | 24°16 | 25°37 | 0°27 | 20°53 | S 13 |
| S 14 | 17 30 55 | 23°12'20 | 0♋45 | 8°45 | 19°25 | 2°38 | 22°23 | 6°45 | 20° 5 | 19°18 | 25°52 | 24°13 | 25°34 | 0°34 | 20°51 | S 14 |
| M15 | 17 34 52 | 24° 9'35 | 15° 2 | 8°35 | 19°18 | 3°20 | 22°22 | 6°41 | 20° 4 | 19°16 | 25°54 | 24°11 | 25°31 | 0°40 | 20°50 | M15 |
| T 16 | 17 38 49 | 25° 6'51 | 29°27 | 8°21 | 19° 8 | 4° 2 | 22°21 | 6°36 | 20° 3 | 19°15 | 25°55 | 24°D11 | 25°27 | 0°47 | 20°49 | T 16 |
| W17 | 17 42 45 | 26° 4'05 | 13♌55 | 8° 3 | 18°57 | 4°44 | 22°20 | 6°32 | 20° 2 | 19°14 | 25°57 | 24°12 | 25°24 | 0°54 | 20°47 | W17 |
| T 18 | 17 46 42 | 27° 1'19 | 28°20 | 7°41 | 18°42 | 5°26 | 22°19 | 6°28 | 20° 1 | 19°12 | 25°58 | 24°13 | 25°21 | 1° 0 | 20°46 | T 18 |
| F 19 | 17 50 38 | 27°58'32 | 12♍40 | 7°16 | 18°26 | 6° 8 | 22°17 | 6°24 | 20° 0 | 19°11 | 26° 0 | 24°15 | 25°18 | 1° 7 | 20°45 | F 19 |
| S 20 | 17 54 35 | 28°55'45 | 26°52 | 6°48 | 18° 7 | 6°50 | 22°15 | 6°19 | 19°59 | 19° 9 | 26° 1 | 24°R15 | 25°15 | 1°14 | 20°43 | S 20 |
| S 21 | 17 58 31 | 29°52'57 | 10♎54 | 6°17 | 17°46 | 7°32 | 22°13 | 6°15 | 19°58 | 19° 8 | 26° 3 | 24°15 | 25°12 | 1°20 | 20°41 | S 21 |
| M22 | 18 2 28 | 0♋50'08 | 24°44 | 5°44 | 17°22 | 8°14 | 22°11 | 6°10 | 19°56 | 19° 6 | 26° 4 | 24°14 | 25° 8 | 1°27 | 20°40 | M22 |
| T 23 | 18 6 24 | 1°47'19 | 8♏22 | 5° 9 | 16°57 | 8°56 | 22° 9 | 6° 6 | 19°55 | 19° 5 | 26° 5 | 24°11 | 25° 5 | 1°34 | 20°38 | T 23 |
| W24 | 18 10 21 | 2°44'30 | 21°47 | 4°34 | 16°29 | 9°37 | 22° 6 | 6° 2 | 19°54 | 19° 3 | 26° 7 | 24° 8 | 25° 2 | 1°40 | 20°36 | W24 |
| T 25 | 18 14 18 | 3°41'40 | 4♐57 | 3°58 | 16° 0 | 10°19 | 22° 4 | 5°57 | 19°52 | 19° 2 | 26° 8 | 24° 5 | 24°59 | 1°47 | 20°35 | T 25 |
| F 26 | 18 18 14 | 4°38'50 | 17°54 | 3°22 | 15°29 | 11° 1 | 22° 1 | 5°53 | 19°51 | 19° 0 | 26°10 | 24° 3 | 24°56 | 1°54 | 20°33 | F 26 |
| S 27 | 18 22 11 | 5°36'00 | 0♑37 | 2°47 | 14°56 | 11°42 | 21°58 | 5°48 | 19°49 | 18°58 | 26°11 | 24° 0 | 24°53 | 2° 0 | 20°31 | S 27 |
| S 28 | 18 26 7 | 6°33'10 | 13° 6 | 2°13 | 14°22 | 12°24 | 21°54 | 5°44 | 19°48 | 18°57 | 26°13 | 23°59 | 24°49 | 2° 7 | 20°29 | S 28 |
| M29 | 18 30 4 | 7°30'20 | 25°23 | 1°41 | 13°47 | 13° 5 | 21°51 | 5°40 | 19°46 | 18°55 | 26°14 | 23°D59 | 24°46 | 2°14 | 20°27 | M29 |
| T 30 | 18 34 0 | 8♋27'30 | 7♒28 | 1♋12 | 13♋11 | 13♊46 | 21♒47 | 5♑35 | 19♒45 | 18♑54 | 26♊15 | 23♋59 | 24♋43 | 2♓20 | 20♒25 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22n 6 | 21s43 | 0n41 | 24n43 | 1n18 | 24n37 | 2n18 | 18n33 | 0s 6 | 14s53 | 0s49 | 22s31 | 0n45 | 15s27 | 0s43 | 21s26 | 0n37 | 17n33 | 5s52 | 21n14 | 20n56 | 14s25 | 8s11 | 6n40 |
| T 2 | 22 14 | 20 45 | 0s25 | 24 31 | 1 8 | 24 27 | 2 11 | 18 44 | 0 6 | 14 53 | 0 49 | 22 31 | 0 45 | 15 27 | 0 43 | 21 26 | 0 37 | 17 33 | 5 52 | 21 14 | 20 57 | 14 24 | 8 11 | 6 41 |
| W 3 | 22 22 | 18 51 | 1 29 | 24 18 | 0 57 | 24 17 | 2 4 | 18 56 | 0 5 | 14 52 | 0 49 | 22 31 | 0 45 | 15 27 | 0 43 | 21 26 | 0 37 | 17 33 | 5 52 | 21 14 | 20 57 | 14 22 | 8 10 | 6 41 |
| T 4 | 22 29 | 16 9 | 2 29 | 24 5 | 0 45 | 24 7 | 1 56 | 19 6 | 0 5 | 14 52 | 0 49 | 22 32 | 0 45 | 15 27 | 0 43 | 21 26 | 0 37 | 17 33 | 5 52 | 21 13 | 20 58 | 14 20 | 8 10 | 6 42 |
| F 5 | 22 36 | 12 48 | 3 22 | 23 51 | 0 33 | 23 57 | 1 48 | 19 17 | 0 4 | 14 52 | 0 50 | 22 32 | 0 45 | 15 27 | 0 43 | 21 27 | 0 37 | 17 33 | 5 52 | 21 13 | 20 59 | 14 19 | 8 10 | 6 42 |
| S 6 | 22 42 | 8 57 | 4 6 | 23 36 | 0 20 | 23 47 | 1 40 | 19 28 | 0 3 | 14 52 | 0 50 | 22 32 | 0 45 | 15 28 | 0 43 | 21 27 | 0 37 | 17 33 | 5 52 | 21 13 | 20 59 | 14 17 | 8 10 | 6 42 |
| S 7 | 22 48 | 4 44 | 4 41 | 23 21 | 0 6 | 23 37 | 1 31 | 19 38 | 0 3 | 14 52 | 0 50 | 22 33 | 0 45 | 15 28 | 0 43 | 21 27 | 0 37 | 17 33 | 5 52 | 21 13 | 21 0 | 14 15 | 8 10 | 6 43 |
| M 8 | 22 53 | 0 15 | 5 3 | 23 5 | 0s 8 | 23 26 | 1 22 | 19 48 | 0 2 | 14 52 | 0 50 | 22 33 | 0 45 | 15 28 | 0 43 | 21 27 | 0 37 | 17 33 | 5 52 | 21 14 | 21 0 | 14 14 | 8 10 | 6 43 |
| T 9 | 22 59 | 4n19 | 5 11 | 22 50 | 0 23 | 23 16 | 1 12 | 19 58 | 0 1 | 14 52 | 0 51 | 22 33 | 0 44 | 15 28 | 0 43 | 21 27 | 0 37 | 17 33 | 5 51 | 21 14 | 21 1 | 14 12 | 8 10 | 6 43 |
| W10 | 23 3 | 8 50 | 5 5 | 22 33 | 0 38 | 23 5 | 1 2 | 20 8 | 0 1 | 14 52 | 0 51 | 22 33 | 0 44 | 15 29 | 0 43 | 21 28 | 0 37 | 17 34 | 5 51 | 21 15 | 21 2 | 14 10 | 8 10 | 6 44 |
| T 11 | 23 8 | 13 4 | 4 43 | 22 17 | 0 54 | 22 55 | 0 52 | 20 18 | 0n 0 | 14 53 | 0 51 | 22 34 | 0 44 | 15 29 | 0 43 | 21 28 | 0 37 | 17 34 | 5 51 | 21 16 | 21 2 | 14 8 | 8 10 | 6 44 |
| F 12 | 23 12 | 16 46 | 4 4 | 22 1 | 1 10 | 22 44 | 0 41 | 20 27 | 0 1 | 14 53 | 0 52 | 22 34 | 0 44 | 15 29 | 0 43 | 21 28 | 0 37 | 17 34 | 5 51 | 21 17 | 21 3 | 14 7 | 8 10 | 6 44 |
| S 13 | 23 15 | 19 39 | 3 11 | 21 45 | 1 27 | 22 33 | 0 30 | 20 36 | 0 1 | 14 53 | 0 52 | 22 34 | 0 44 | 15 29 | 0 43 | 21 28 | 0 37 | 17 34 | 5 51 | 21 18 | 21 3 | 14 5 | 8 10 | 6 45 |
| S 14 | 23 18 | 21 24 | 2 5 | 21 28 | 1 43 | 22 23 | 0 18 | 20 45 | 0 2 | 14 54 | 0 52 | 22 34 | 0 44 | 15 30 | 0 43 | 21 28 | 0 37 | 17 34 | 5 51 | 21 19 | 21 4 | 14 3 | 8 10 | 6 45 |
| M15 | 23 21 | 21 48 | 0 50 | 21 13 | 2 0 | 22 12 | 0 7 | 20 54 | 0 3 | 14 54 | 0 52 | 22 35 | 0 44 | 15 30 | 0 43 | 21 29 | 0 37 | 17 34 | 5 51 | 21 19 | 21 5 | 14 2 | 8 10 | 6 45 |
| T 16 | 23 23 | 20 46 | 0n29 | 20 57 | 2 16 | 22 1 | 0s 6 | 21 3 | 0 3 | 14 55 | 0 53 | 22 35 | 0 44 | 15 30 | 0 43 | 21 29 | 0 37 | 17 34 | 5 51 | 21 19 | 21 5 | 14 0 | 8 10 | 6 46 |
| W17 | 23 25 | 18 23 | 1 46 | 20 42 | 2 33 | 21 50 | 0 18 | 21 11 | 0 4 | 14 56 | 0 53 | 22 35 | 0 44 | 15 31 | 0 43 | 21 29 | 0 37 | 17 34 | 5 51 | 21 19 | 21 6 | 13 58 | 8 10 | 6 46 |
| T 18 | 23 27 | 14 50 | 2 57 | 20 27 | 2 49 | 21 39 | 0 31 | 21 20 | 0 5 | 14 56 | 0 53 | 22 36 | 0 44 | 15 31 | 0 43 | 21 29 | 0 37 | 17 34 | 5 51 | 21 18 | 21 6 | 13 57 | 8 10 | 6 46 |
| F 19 | 23 28 | 10 26 | 3 56 | 20 13 | 3 4 | 21 29 | 0 44 | 21 28 | 0 5 | 14 57 | 0 53 | 22 36 | 0 44 | 15 32 | 0 43 | 21 29 | 0 37 | 17 34 | 5 51 | 21 18 | 21 7 | 13 55 | 8 10 | 6 47 |
| S 20 | 23 29 | 5 31 | 4 39 | 19 59 | 3 19 | 21 18 | 0 58 | 21 35 | 0 6 | 14 58 | 0 54 | 22 36 | 0 44 | 15 32 | 0 44 | 21 30 | 0 37 | 17 35 | 5 51 | 21 18 | 21 7 | 13 53 | 8 10 | 6 47 |
| S 21 | 23 29 | 0 22 | 5 6 | 19 47 | 3 33 | 21 7 | 1 12 | 21 43 | 0 7 | 14 59 | 0 54 | 22 36 | 0 44 | 15 32 | 0 44 | 21 30 | 0 37 | 17 35 | 5 51 | 21 18 | 21 8 | 13 51 | 8 11 | 6 47 |
| M22 | 23 29 | 4s43 | 5 14 | 19 35 | 3 46 | 20 56 | 1 26 | 21 50 | 0 7 | 15 0 | 0 54 | 22 37 | 0 44 | 15 33 | 0 44 | 21 30 | 0 37 | 17 35 | 5 51 | 21 18 | 21 9 | 13 50 | 8 11 | 6 48 |
| T 23 | 23 28 | 9 30 | 5 5 | 19 24 | 3 59 | 20 45 | 1 40 | 21 58 | 0 8 | 15 1 | 0 54 | 22 37 | 0 44 | 15 33 | 0 44 | 21 30 | 0 37 | 17 35 | 5 51 | 21 19 | 21 9 | 13 48 | 8 11 | 6 48 |
| W24 | 23 27 | 13 45 | 4 39 | 19 15 | 4 9 | 20 35 | 1 54 | 22 5 | 0 9 | 15 2 | 0 55 | 22 37 | 0 43 | 15 34 | 0 44 | 21 30 | 0 37 | 17 35 | 5 51 | 21 19 | 21 10 | 13 46 | 8 11 | 6 48 |
| T 25 | 23 26 | 17 15 | 3 58 | 19 6 | 4 19 | 20 24 | 2 8 | 22 11 | 0 9 | 15 3 | 0 55 | 22 38 | 0 43 | 15 34 | 0 44 | 21 31 | 0 37 | 17 35 | 5 51 | 21 20 | 21 10 | 13 44 | 8 12 | 6 49 |
| F 26 | 23 24 | 19 50 | 3 6 | 18 59 | 4 27 | 20 14 | 2 22 | 22 18 | 0 10 | 15 4 | 0 55 | 22 38 | 0 43 | 15 35 | 0 44 | 21 31 | 0 37 | 17 35 | 5 51 | 21 20 | 21 11 | 13 43 | 8 12 | 6 49 |
| S 27 | 23 22 | 21 23 | 2 6 | 18 53 | 4 34 | 20 3 | 2 36 | 22 24 | 0 11 | 15 5 | 0 56 | 22 38 | 0 43 | 15 35 | 0 44 | 21 31 | 0 37 | 17 35 | 5 51 | 21 21 | 21 11 | 13 41 | 8 12 | 6 49 |
| S 28 | 23 19 | 21 51 | 1 0 | 18 49 | 4 39 | 19 53 | 2 51 | 22 31 | 0 11 | 15 7 | 0 56 | 22 38 | 0 43 | 15 36 | 0 44 | 21 31 | 0 37 | 17 35 | 5 51 | 21 21 | 21 12 | 13 39 | 8 12 | 6 49 |
| M29 | 23 16 | 21 14 | 0s 8 | 18 45 | 4 43 | 19 43 | 3 4 | 22 37 | 0 12 | 15 8 | 0 56 | 22 39 | 0 43 | 15 36 | 0 44 | 21 32 | 0 37 | 17 35 | 5 51 | 21 21 | 21 13 | 13 37 | 8 13 | 6 50 |
| T 30 | 23n13 | 19s38 | 1s14 | 18n44 | 4s45 | 19n32 | 3s18 | 22n42 | 0n13 | 15s 9 | 0s56 | 22s39 | 0n43 | 15s37 | 0s44 | 21s32 | 0n37 | 17n35 | 5s51 | 21n21 | 21n13 | 13s36 | 8s13 | 6n50 |

Julian Day Number = 2329340.5, Delta T = 32.73 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'12, Lahiri = 19°11'13Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## JULY 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 37 57 | 9♋24'40 | 19♒25 | 0°R46 | 12°R34 | 14♊28 | 21°R44 | 5°R31 | 19°R43 | 18°R52 | 26♊17 | 24♋ 0 | 24♋40 | 2♓27 | 20°R23 | W 1 |
| T 2 | 18 41 53 | 10°21'50 | 1♓17 | 0♋24 | 11♋57 | 15° 9 | 21♒40 | 5♑26 | 19♒42 | 18♑51 | 26°18 | 24° 2 | 24°37 | 2°34 | 20♒21 | T 2 |
| F 3 | 18 45 50 | 11°19'01 | 13° 7 | 0° 5 | 11°20 | 15°50 | 21°36 | 5°22 | 19°40 | 18°49 | 26°20 | 24° 3 | 24°33 | 2°41 | 20°18 | F 3 |
| S 4 | 18 49 47 | 12°16'12 | 24°59 | 29♊51 | 10°42 | 16°31 | 21°31 | 5°18 | 19°38 | 18°47 | 26°21 | 24° 4 | 24°30 | 2°47 | 20°16 | S 4 |
| S 5 | 18 53 43 | 13°13'23 | 6♈58 | 29°42 | 10° 5 | 17°13 | 21°27 | 5°13 | 19°36 | 18°46 | 26°23 | 24° 4 | 24°27 | 2°54 | 20°14 | S 5 |
| M 6 | 18 57 40 | 14°10'35 | 19° 8 | 29°D37 | 9°28 | 17°54 | 21°22 | 5° 9 | 19°35 | 18°44 | 26°24 | 24°R 4 | 24°24 | 3° 1 | 20°12 | M 6 |
| T 7 | 19 1 36 | 15° 7'47 | 1♉34 | 29°38 | 8°52 | 18°35 | 21°17 | 5° 5 | 19°33 | 18°43 | 26°25 | 24° 4 | 24°21 | 3° 7 | 20° 9 | T 7 |
| W 8 | 19 5 33 | 16° 5'00 | 14°19 | 29°43 | 8°17 | 19°16 | 21°12 | 5° 0 | 19°31 | 18°41 | 26°27 | 24° 3 | 24°18 | 3°14 | 20° 7 | W 8 |
| T 9 | 19 9 29 | 17° 2'13 | 27°28 | 29°54 | 7°43 | 19°56 | 21° 7 | 4°56 | 19°29 | 18°39 | 26°28 | 24° 2 | 24°14 | 3°21 | 20° 4 | T 9 |
| F 10 | 19 13 26 | 17°59'28 | 11♊ 1 | 0♋11 | 7°10 | 20°37 | 21° 2 | 4°52 | 19°27 | 18°38 | 26°29 | 24° 2 | 24°11 | 3°27 | 20° 2 | F 10 |
| S 11 | 19 17 22 | 18°56'42 | 24°58 | 0°33 | 6°39 | 21°18 | 20°57 | 4°48 | 19°25 | 18°36 | 26°31 | 24° 1 | 24° 8 | 3°34 | 19°59 | S 11 |
| S 12 | 19 21 19 | 19°53'58 | 9♋17 | 1° 0 | 6° 9 | 21°59 | 20°51 | 4°43 | 19°23 | 18°34 | 26°32 | 24° 1 | 24° 5 | 3°41 | 19°57 | S 12 |
| M13 | 19 25 16 | 20°51'13 | 23°54 | 1°33 | 5°42 | 22°40 | 20°45 | 4°39 | 19°21 | 18°33 | 26°33 | 24°D 1 | 24° 2 | 3°47 | 19°54 | M13 |
| T 14 | 19 29 12 | 21°48'29 | 8♌43 | 2°11 | 5°16 | 23°20 | 20°40 | 4°35 | 19°19 | 18°31 | 26°35 | 24° 1 | 23°59 | 3°54 | 19°52 | T 14 |
| W15 | 19 33 9 | 22°45'46 | 23°35 | 2°55 | 4°53 | 24° 1 | 20°34 | 4°31 | 19°17 | 18°30 | 26°36 | 24° 1 | 23°55 | 4° 1 | 19°49 | W15 |
| T 16 | 19 37 5 | 23°43'03 | 8♍24 | 3°44 | 4°31 | 24°41 | 20°28 | 4°27 | 19°15 | 18°28 | 26°37 | 24°R 1 | 23°52 | 4° 7 | 19°46 | T 16 |
| F 17 | 19 41 2 | 24°40'20 | 23° 3 | 4°39 | 4°12 | 25°22 | 20°21 | 4°23 | 19°13 | 18°26 | 26°39 | 24° 1 | 23°49 | 4°14 | 19°44 | F 17 |
| S 18 | 19 44 58 | 25°37'37 | 7♎26 | 5°38 | 3°55 | 26° 2 | 20°15 | 4°19 | 19°11 | 18°25 | 26°40 | 24° 1 | 23°46 | 4°21 | 19°41 | S 18 |
| S 19 | 19 48 55 | 26°34'55 | 21°32 | 6°43 | 3°40 | 26°42 | 20° 8 | 4°15 | 19° 9 | 18°23 | 26°41 | 24°D 1 | 23°43 | 4°27 | 19°38 | S 19 |
| M20 | 19 52 51 | 27°32'13 | 5♏18 | 7°53 | 3°28 | 27°23 | 20° 2 | 4°11 | 19° 7 | 18°21 | 26°43 | 24° 1 | 23°39 | 4°34 | 19°35 | M20 |
| T 21 | 19 56 48 | 28°29'32 | 18°44 | 9° 8 | 3°18 | 28° 3 | 19°55 | 4° 7 | 19° 5 | 18°20 | 26°44 | 24° 1 | 23°36 | 4°41 | 19°32 | T 21 |
| W22 | 20 0 45 | 29°26'51 | 1♐52 | 10°28 | 3°10 | 28°43 | 19°48 | 4° 4 | 19° 2 | 18°18 | 26°45 | 24° 1 | 23°33 | 4°47 | 19°29 | W22 |
| T 23 | 20 4 41 | 0♑24'10 | 14°44 | 11°52 | 3° 5 | 29°23 | 19°41 | 4° 0 | 19° 0 | 18°17 | 26°46 | 24° 2 | 23°30 | 4°54 | 19°27 | T 23 |
| F 24 | 20 8 38 | 1°21'30 | 27°20 | 13°21 | 3° 3 | 0♋ 3 | 19°34 | 3°56 | 18°58 | 18°15 | 26°48 | 24° 3 | 23°27 | 5° 1 | 19°24 | F 24 |
| S 25 | 20 12 34 | 2°18'51 | 9♑45 | 14°55 | 3°D 2 | 0°43 | 19°27 | 3°53 | 18°56 | 18°14 | 26°49 | 24° 3 | 23°24 | 5° 7 | 19°21 | S 25 |
| S 26 | 20 16 31 | 3°16'13 | 21°58 | 16°32 | 3° 4 | 1°23 | 19°20 | 3°49 | 18°53 | 18°12 | 26°50 | 24°R 3 | 23°20 | 5°14 | 19°18 | S 26 |
| M27 | 20 20 27 | 4°13'35 | 4♒ 3 | 18°14 | 3° 8 | 2° 3 | 19°13 | 3°46 | 18°51 | 18°10 | 26°51 | 24° 3 | 23°17 | 5°21 | 19°15 | M27 |
| T 28 | 20 24 24 | 5°10'58 | 16° 1 | 19°59 | 3°14 | 2°43 | 19° 6 | 3°42 | 18°49 | 18° 9 | 26°52 | 24° 3 | 23°14 | 5°27 | 19°12 | T 28 |
| W29 | 20 28 21 | 6° 8'22 | 27°54 | 21°48 | 3°23 | 3°23 | 18°58 | 3°39 | 18°47 | 18° 7 | 26°54 | 24° 1 | 23°11 | 5°34 | 19° 9 | W29 |
| T 30 | 20 32 17 | 7° 5'47 | 9♓44 | 23°39 | 3°34 | 4° 2 | 18°51 | 3°36 | 18°44 | 18° 6 | 26°55 | 24° 0 | 23° 8 | 5°41 | 19° 6 | T 30 |
| F 31 | 20 36 14 | 8♌ 3'14 | 21♓34 | 25♋33 | 3♋46 | 4♋42 | 18♒43 | 3♑32 | 18♒42 | 18♑ 4 | 26♊56 | 23♋58 | 23♋ 4 | 5♓48 | 19♒ 3 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 23n 9 | 17s11 | 2s16 | 18n43 | 4s45 | 19n22 | 3s32 | 22n48 | 0n13 | 15s11 | 0s57 | 22s39 | 0n43 | 15s37 | 0s44 | 21s32 | 0n37 | 17n35 | 5s51 | 21n21 | 21n14 | 13s34 | 8s14 | 6n50 | |
| T 2 | 23 5 | 14 2 | 3 12 | 18 44 | 4 44 | 19 13 | 3 45 | 22 53 | 0 14 | 15 12 | 0 57 | 22 39 | 0 43 | 15 38 | 0 44 | 21 32 | 0 37 | 17 35 | 5 51 | 21 21 | 21 14 | 13 32 | 8 14 | 6 51 | |
| F 3 | 23 0 | 10 20 | 4 0 | 18 47 | 4 42 | 19 3 | 3 57 | 22 58 | 0 15 | 15 14 | 0 57 | 22 40 | 0 43 | 15 38 | 0 44 | 21 32 | 0 37 | 17 35 | 5 50 | 21 20 | 21 15 | 13 30 | 8 14 | 6 51 | |
| S 4 | 22 55 | 6 14 | 4 37 | 18 51 | 4 38 | 18 54 | 4 10 | 23 3 | 0 15 | 15 16 | 0 57 | 22 40 | 0 43 | 15 39 | 0 44 | 21 33 | 0 37 | 17 36 | 5 50 | 21 20 | 21 15 | 13 29 | 8 15 | 6 51 | |
| S 5 | 22 49 | 1 52 | 5 3 | 18 56 | 4 33 | 18 45 | 4 22 | 23 8 | 0 16 | 15 17 | 0 58 | 22 40 | 0 42 | 15 40 | 0 44 | 21 33 | 0 37 | 17 36 | 5 50 | 21 20 | 21 16 | 13 27 | 8 15 | 6 51 | |
| M 6 | 22 44 | 2n38 | 5 16 | 19 3 | 4 26 | 18 36 | 4 33 | 23 12 | 0 17 | 15 19 | 0 58 | 22 41 | 0 42 | 15 40 | 0 44 | 21 33 | 0 37 | 17 36 | 5 50 | 21 20 | 21 17 | 13 25 | 8 16 | 6 52 | |
| T 7 | 22 37 | 7 7 | 5 14 | 19 10 | 4 19 | 18 28 | 4 44 | 23 17 | 0 17 | 15 21 | 0 58 | 22 41 | 0 42 | 15 41 | 0 44 | 21 33 | 0 37 | 17 36 | 5 50 | 21 20 | 21 17 | 13 23 | 8 16 | 6 52 | |
| W 8 | 22 31 | 11 25 | 4 58 | 19 19 | 4 10 | 18 20 | 4 54 | 23 21 | 0 18 | 15 23 | 0 58 | 22 41 | 0 42 | 15 41 | 0 44 | 21 34 | 0 37 | 17 36 | 5 50 | 21 20 | 21 18 | 13 21 | 8 17 | 6 52 | |
| T 9 | 22 24 | 15 20 | 4 25 | 19 29 | 4 0 | 18 13 | 5 3 | 23 25 | 0 19 | 15 24 | 0 59 | 22 41 | 0 42 | 15 42 | 0 44 | 21 34 | 0 37 | 17 36 | 5 50 | 21 20 | 21 18 | 13 20 | 8 17 | 6 52 | |
| F 10 | 22 16 | 18 33 | 3 37 | 19 39 | 3 50 | 18 6 | 5 12 | 23 28 | 0 19 | 15 26 | 0 59 | 22 42 | 0 42 | 15 43 | 0 44 | 21 34 | 0 37 | 17 36 | 5 50 | 21 20 | 21 19 | 13 18 | 8 18 | 6 52 | |
| S 11 | 22 8 | 20 49 | 2 34 | 19 51 | 3 38 | 17 59 | 5 20 | 23 32 | 0 20 | 15 28 | 0 59 | 22 42 | 0 42 | 15 43 | 0 44 | 21 34 | 0 37 | 17 36 | 5 50 | 21 21 | 21 19 | 13 16 | 8 19 | 6 53 | |
| S 12 | 22 0 | 21 49 | 1 21 | 20 3 | 3 26 | 17 53 | 5 28 | 23 35 | 0 21 | 15 30 | 0 59 | 22 42 | 0 42 | 15 44 | 0 44 | 21 35 | 0 37 | 17 36 | 5 50 | 21 21 | 21 20 | 13 14 | 8 19 | 6 53 | |
| M13 | 21 52 | 21 21 | 0 1 | 20 15 | 3 13 | 17 47 | 5 35 | 23 38 | 0 21 | 15 32 | 0 59 | 22 42 | 0 42 | 15 44 | 0 44 | 21 35 | 0 37 | 17 36 | 5 50 | 21 21 | 21 20 | 13 12 | 8 20 | 6 53 | |
| T 14 | 21 43 | 19 25 | 1n21 | 20 28 | 3 0 | 17 42 | 5 41 | 23 41 | 0 22 | 15 34 | 1 0 | 22 43 | 0 42 | 15 45 | 0 44 | 21 35 | 0 37 | 17 36 | 5 50 | 21 21 | 21 21 | 13 10 | 8 20 | 6 53 | |
| W15 | 21 33 | 16 9 | 2 37 | 20 40 | 2 47 | 17 37 | 5 46 | 23 44 | 0 23 | 15 36 | 1 0 | 22 43 | 0 41 | 15 46 | 0 44 | 21 35 | 0 37 | 17 36 | 5 50 | 21 21 | 21 22 | 13 9 | 8 21 | 6 53 | |
| T 16 | 21 24 | 11 52 | 3 42 | 20 53 | 2 33 | 17 33 | 5 51 | 23 46 | 0 24 | 15 39 | 1 0 | 22 43 | 0 41 | 15 46 | 0 44 | 21 35 | 0 37 | 17 36 | 5 50 | 21 21 | 21 22 | 13 7 | 8 22 | 6 54 | |
| F 17 | 21 14 | 6 56 | 4 32 | 21 6 | 2 19 | 17 29 | 5 56 | 23 48 | 0 24 | 15 41 | 1 0 | 22 43 | 0 41 | 15 47 | 0 44 | 21 36 | 0 37 | 17 36 | 5 50 | 21 21 | 21 23 | 13 5 | 8 22 | 6 54 | |
| S 18 | 21 3 | 1 42 | 5 4 | 21 18 | 2 4 | 17 26 | 5 59 | 23 50 | 0 25 | 15 43 | 1 1 | 22 44 | 0 41 | 15 48 | 0 44 | 21 36 | 0 37 | 17 36 | 5 50 | 21 21 | 21 23 | 13 3 | 8 23 | 6 54 | |
| S 19 | 20 53 | 3s30 | 5 17 | 21 29 | 1 50 | 17 24 | 6 2 | 23 52 | 0 26 | 15 45 | 1 1 | 22 44 | 0 41 | 15 49 | 0 44 | 21 36 | 0 37 | 17 36 | 5 50 | 21 21 | 21 24 | 13 1 | 8 24 | 6 54 | |
| M20 | 20 41 | 8 25 | 5 11 | 21 40 | 1 35 | 17 21 | 6 5 | 23 54 | 0 26 | 15 48 | 1 1 | 22 44 | 0 41 | 15 49 | 0 44 | 21 36 | 0 37 | 17 36 | 5 51 | 21 21 | 21 24 | 13 0 | 8 25 | 6 54 | |
| T 21 | 20 30 | 12 48 | 4 48 | 21 50 | 1 21 | 17 20 | 6 7 | 23 55 | 0 27 | 15 50 | 1 1 | 22 44 | 0 41 | 15 50 | 0 44 | 21 37 | 0 37 | 17 36 | 5 51 | 21 21 | 21 25 | 12 58 | 8 25 | 6 54 | |
| W22 | 20 18 | 16 28 | 4 11 | 21 58 | 1 6 | 17 19 | 6 8 | 23 56 | 0 28 | 15 52 | 1 1 | 22 44 | 0 41 | 15 51 | 0 44 | 21 37 | 0 37 | 17 36 | 5 51 | 21 21 | 21 25 | 12 56 | 8 26 | 6 54 | |
| T 23 | 20 6 | 19 16 | 3 21 | 22 5 | 0 52 | 17 18 | 6 9 | 23 57 | 0 28 | 15 55 | 1 2 | 22 45 | 0 41 | 15 51 | 0 44 | 21 37 | 0 37 | 17 36 | 5 51 | 21 20 | 21 26 | 12 54 | 8 27 | 6 54 | |
| F 24 | 19 54 | 21 4 | 2 23 | 22 11 | 0 38 | 17 17 | 6 10 | 23 58 | 0 29 | 15 57 | 1 2 | 22 45 | 0 40 | 15 52 | 0 44 | 21 37 | 0 37 | 17 36 | 5 51 | 21 20 | 21 27 | 12 52 | 8 28 | 6 55 | |
| S 25 | 19 41 | 21 49 | 1 19 | 22 14 | 0 24 | 17 17 | 6 9 | 23 58 | 0 30 | 15 59 | 1 2 | 22 45 | 0 40 | 15 53 | 0 44 | 21 38 | 0 37 | 17 36 | 5 51 | 21 20 | 21 27 | 12 50 | 8 28 | 6 55 | |
| S 26 | 19 28 | 21 30 | 0 12 | 22 16 | 0 11 | 17 18 | 6 9 | 23 59 | 0 30 | 16 2 | 1 2 | 22 45 | 0 40 | 15 53 | 0 44 | 21 38 | 0 37 | 17 36 | 5 51 | 21 20 | 21 28 | 12 48 | 8 29 | 6 55 | |
| M27 | 19 14 | 20 10 | 0s55 | 22 16 | 0n 1 | 17 19 | 6 8 | 23 59 | 0 31 | 16 4 | 1 2 | 22 46 | 0 40 | 15 54 | 0 44 | 21 38 | 0 37 | 17 36 | 5 51 | 21 20 | 21 28 | 12 47 | 8 30 | 6 55 | |
| T 28 | 19 0 | 17 57 | 1 59 | 22 13 | 0 14 | 17 20 | 6 7 | 23 59 | 0 32 | 16 7 | 1 2 | 22 46 | 0 40 | 15 55 | 0 44 | 21 38 | 0 37 | 17 36 | 5 51 | 21 20 | 21 29 | 12 45 | 8 31 | 6 55 | |
| W29 | 18 46 | 14 59 | 2 57 | 22 8 | 0 25 | 17 21 | 6 5 | 23 59 | 0 32 | 16 9 | 1 3 | 22 46 | 0 40 | 15 56 | 0 44 | 21 38 | 0 37 | 17 36 | 5 51 | 21 21 | 21 29 | 12 43 | 8 32 | 6 55 | |
| T 30 | 18 32 | 11 26 | 3 47 | 22 0 | 0 36 | 17 23 | 6 3 | 23 58 | 0 33 | 16 12 | 1 3 | 22 46 | 0 40 | 15 56 | 0 44 | 21 39 | 0 37 | 17 36 | 5 51 | 21 21 | 21 30 | 12 41 | 8 33 | 6 55 | |
| F 31 | 18n17 | 7s26 | 4s27 | 21n50 | 0n46 | 17n25 | 6s 1 | 23n57 | 0n34 | 16s14 | 1s 3 | 22s46 | 0n40 | 15s57 | 0s44 | 21s39 | 0n37 | 17n36 | 5s51 | 21n21 | 21n30 | 12s39 | 8s33 | 6n55 | |

Julian Day Number = 2329370.5, Delta T = 32.68 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'16, Lahiri = 19°11'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## AUGUST 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 40 10 | 9♌ 0'41 | 3♈27 | 27♋30 | 4♋ 1 | 5♋22 | 18°R36 | 3°R29 | 18°R40 | 18°R 3 | 26♊57 | 23°R55 | 23♋ 1 | 5♓54 | 19°R 0 | S 1 |
| S 2 | 20 44 7 | 9°58'10 | 15°26 | 29°29 | 4°18 | 6° 1 | 18♒28 | 3♑26 | 18♒37 | 18♑ 1 | 26°58 | 23♋54 | 22°58 | 6° 1 | 18♒57 | S 2 |
| M 3 | 20 48 3 | 10°55'40 | 27°35 | 1♌29 | 4°36 | 6°41 | 18°20 | 3°23 | 18°35 | 18° 0 | 26°59 | 23°52 | 22°55 | 6° 8 | 18°53 | M 3 |
| T 4 | 20 52 0 | 11°53'11 | 9♉58 | 3°30 | 4°57 | 7°20 | 18°12 | 3°20 | 18°33 | 17°59 | 27° 0 | 23°D52 | 22°52 | 6°14 | 18°50 | T 4 |
| W 5 | 20 55 56 | 12°50'44 | 22°40 | 5°33 | 5°19 | 8° 0 | 18° 5 | 3°17 | 18°30 | 17°57 | 27° 1 | 23°52 | 22°49 | 6°21 | 18°47 | W 5 |
| T 6 | 20 59 53 | 13°48'18 | 5♊44 | 7°35 | 5°43 | 8°39 | 17°57 | 3°14 | 18°28 | 17°56 | 27° 2 | 23°53 | 22°45 | 6°28 | 18°44 | T 6 |
| F 7 | 21 3 49 | 14°45'54 | 19°12 | 9°39 | 6° 9 | 9°18 | 17°49 | 3°11 | 18°25 | 17°54 | 27° 4 | 23°54 | 22°42 | 6°34 | 18°41 | F 7 |
| S 8 | 21 7 46 | 15°43'31 | 3♋ 8 | 11°42 | 6°36 | 9°58 | 17°41 | 3° 9 | 18°23 | 17°53 | 27° 5 | 23°56 | 22°39 | 6°41 | 18°38 | S 8 |
| S 9 | 21 11 43 | 16°41'10 | 17°29 | 13°45 | 7° 5 | 10°37 | 17°33 | 3° 6 | 18°21 | 17°51 | 27° 6 | 23°R57 | 22°36 | 6°48 | 18°35 | S 9 |
| M10 | 21 15 39 | 17°38'50 | 2♌14 | 15°47 | 7°35 | 11°16 | 17°26 | 3° 4 | 18°18 | 17°50 | 27° 7 | 23°56 | 22°33 | 6°54 | 18°32 | M10 |
| T 11 | 21 19 36 | 18°36'31 | 17°15 | 17°49 | 8° 7 | 11°55 | 17°18 | 3° 1 | 18°16 | 17°49 | 27° 8 | 23°55 | 22°30 | 7° 1 | 18°28 | T 11 |
| W12 | 21 23 32 | 19°34'14 | 2♍25 | 19°50 | 8°40 | 12°34 | 17°10 | 2°59 | 18°13 | 17°47 | 27° 9 | 23°53 | 22°26 | 7° 8 | 18°25 | W12 |
| T 13 | 21 27 29 | 20°31'58 | 17°34 | 21°50 | 9°14 | 13°13 | 17° 2 | 2°57 | 18°11 | 17°46 | 27° 9 | 23°50 | 22°23 | 7°14 | 18°22 | T 13 |
| F 14 | 21 31 25 | 21°29'43 | 2♎32 | 23°49 | 9°49 | 13°52 | 16°54 | 2°54 | 18° 9 | 17°45 | 27°10 | 23°46 | 22°20 | 7°21 | 18°19 | F 14 |
| S 15 | 21 35 22 | 22°27'29 | 17°12 | 25°46 | 10°26 | 14°31 | 16°46 | 2°52 | 18° 6 | 17°44 | 27°11 | 23°42 | 22°17 | 7°28 | 18°16 | S 15 |
| S 16 | 21 39 18 | 23°25'17 | 1♏29 | 27°43 | 11° 4 | 15°10 | 16°39 | 2°50 | 18° 4 | 17°42 | 27°12 | 23°40 | 22°14 | 7°34 | 18°13 | S 16 |
| M17 | 21 43 15 | 24°23'06 | 15°19 | 29°38 | 11°43 | 15°48 | 16°31 | 2°48 | 18° 2 | 17°41 | 27°13 | 23°38 | 22°10 | 7°41 | 18°10 | M17 |
| T 18 | 21 47 12 | 25°20'55 | 28°43 | 1♐32 | 12°24 | 16°27 | 16°23 | 2°47 | 17°59 | 17°40 | 27°14 | 23°D38 | 22° 7 | 7°48 | 18° 7 | T 18 |
| W19 | 21 51 8 | 26°18'47 | 11♑44 | 3°25 | 13° 5 | 17° 6 | 16°16 | 2°45 | 17°57 | 17°39 | 27°15 | 23°39 | 22° 4 | 7°54 | 18° 4 | W19 |
| T 20 | 21 55 5 | 27°16'39 | 24°25 | 5°17 | 13°47 | 17°44 | 16° 8 | 2°43 | 17°54 | 17°38 | 27°16 | 23°40 | 22° 1 | 8° 1 | 18° 1 | T 20 |
| F 21 | 21 59 1 | 28°14'32 | 6♑49 | 7° 7 | 14°31 | 18°23 | 16° 0 | 2°42 | 17°52 | 17°36 | 27°16 | 23°42 | 21°58 | 8° 8 | 17°57 | F 21 |
| S 22 | 22 2 58 | 29°12'27 | 19° 0 | 8°56 | 15°15 | 19° 1 | 15°53 | 2°40 | 17°50 | 17°35 | 27°17 | 23°R43 | 21°55 | 8°15 | 17°54 | S 22 |
| S 23 | 22 6 54 | 0♍10'24 | 1♒ 2 | 10°43 | 16° 0 | 19°40 | 15°46 | 2°39 | 17°47 | 17°34 | 27°18 | 23°42 | 21°51 | 8°21 | 17°51 | S 23 |
| M24 | 22 10 51 | 1° 8'22 | 12°58 | 12°29 | 16°46 | 20°18 | 15°38 | 2°37 | 17°45 | 17°33 | 27°19 | 23°41 | 21°48 | 8°28 | 17°48 | M24 |
| T 25 | 22 14 47 | 2° 6'21 | 24°50 | 14°14 | 17°33 | 20°56 | 15°31 | 2°36 | 17°43 | 17°32 | 27°19 | 23°37 | 21°45 | 8°35 | 17°45 | T 25 |
| W26 | 22 18 44 | 3° 4'22 | 6♓40 | 15°58 | 18°21 | 21°35 | 15°24 | 2°35 | 17°41 | 17°31 | 27°20 | 23°32 | 21°42 | 8°41 | 17°42 | W26 |
| T 27 | 22 22 41 | 4° 2'24 | 18°31 | 17°40 | 19° 9 | 22°13 | 15°17 | 2°34 | 17°38 | 17°30 | 27°21 | 23°25 | 21°39 | 8°48 | 17°39 | T 27 |
| F 28 | 22 26 37 | 5° 0'28 | 0♈23 | 19°21 | 19°58 | 22°51 | 15°10 | 2°33 | 17°36 | 17°29 | 27°21 | 23°17 | 21°36 | 8°55 | 17°37 | F 28 |
| S 29 | 22 30 34 | 5°58'34 | 12°20 | 21° 1 | 20°48 | 23°29 | 15° 3 | 2°32 | 17°34 | 17°28 | 27°22 | 23° 9 | 21°32 | 9° 1 | 17°34 | S 29 |
| S 30 | 22 34 30 | 6°56'42 | 24°23 | 22°40 | 21°39 | 24° 7 | 14°56 | 2°32 | 17°32 | 17°27 | 27°23 | 23° 2 | 21°29 | 9° 8 | 17°31 | S 30 |
| M31 | 22 38 27 | 7♍54'52 | 6♉35 | 24♍17 | 22♋31 | 24♋45 | 14♒50 | 2♑31 | 17♒29 | 17♑26 | 27♊23 | 22♋56 | 21♋26 | 9♓15 | 17♒28 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 2 | 3s 9 | 4s56 | 21n37 | 0n56 | 17n27 | 5s58 | 23n57 | 0n34 | 16s17 | 1s 3 | 22s47 | 0n39 | 15s58 | 0s44 | 21s39 | 0n37 | 17n36 | 5s51 | 21n22 | 21n31 | 12s37 | 8s34 | 6n55 |
| S 2 | 17 47 | 1n17 | 5 12 | 21 21 | 1 5 | 17 30 | 5 55 | 23 56 | 0 35 | 16 19 | 1 3 | 22 47 | 0 39 | 15 59 | 0 44 | 21 39 | 0 37 | 17 36 | 5 51 | 21 22 | 21 31 | 12 35 | 8 35 | 6 55 |
| M 3 | 17 31 | 5 44 | 5 15 | 21 3 | 1 12 | 17 32 | 5 52 | 23 54 | 0 36 | 16 22 | 1 3 | 22 47 | 0 39 | 15 59 | 0 45 | 21 40 | 0 37 | 17 36 | 5 51 | 21 22 | 21 32 | 12 33 | 8 36 | 6 55 |
| T 4 | 17 15 | 10 2 | 5 3 | 20 42 | 1 19 | 17 35 | 5 49 | 23 53 | 0 36 | 16 24 | 1 4 | 22 47 | 0 39 | 16 0 | 0 45 | 21 40 | 0 37 | 17 36 | 5 51 | 21 22 | 21 32 | 12 31 | 8 37 | 6 55 |
| W 5 | 16 59 | 14 0 | 4 37 | 20 18 | 1 26 | 17 38 | 5 45 | 23 51 | 0 37 | 16 27 | 1 4 | 22 47 | 0 39 | 16 1 | 0 45 | 21 40 | 0 37 | 17 36 | 5 51 | 21 22 | 21 33 | 12 30 | 8 38 | 6 55 |
| T 6 | 16 43 | 17 26 | 3 56 | 19 52 | 1 31 | 17 41 | 5 41 | 23 49 | 0 38 | 16 29 | 1 4 | 22 48 | 0 39 | 16 2 | 0 45 | 21 40 | 0 37 | 17 36 | 5 51 | 21 22 | 21 33 | 12 28 | 8 39 | 6 55 |
| F 7 | 16 26 | 20 3 | 3 0 | 19 24 | 1 35 | 17 44 | 5 37 | 23 47 | 0 38 | 16 32 | 1 4 | 22 48 | 0 39 | 16 2 | 0 45 | 21 40 | 0 37 | 17 36 | 5 51 | 21 22 | 21 34 | 12 26 | 8 40 | 6 55 |
| S 8 | 16 9 | 21 34 | 1 52 | 18 54 | 1 39 | 17 47 | 5 33 | 23 45 | 0 39 | 16 35 | 1 4 | 22 48 | 0 39 | 16 3 | 0 45 | 21 41 | 0 37 | 17 36 | 5 51 | 21 22 | 21 35 | 12 24 | 8 41 | 6 55 |
| S 9 | 15 52 | 21 45 | 0 36 | 18 21 | 1 42 | 17 50 | 5 28 | 23 43 | 0 40 | 16 37 | 1 4 | 22 48 | 0 38 | 16 4 | 0 45 | 21 41 | 0 37 | 17 36 | 5 51 | 21 21 | 21 35 | 12 22 | 8 42 | 6 55 |
| M10 | 15 34 | 20 26 | 0n45 | 17 47 | 1 44 | 17 53 | 5 24 | 23 40 | 0 40 | 16 40 | 1 4 | 22 48 | 0 38 | 16 5 | 0 45 | 21 41 | 0 37 | 17 36 | 5 51 | 21 21 | 21 36 | 12 20 | 8 43 | 6 55 |
| T 11 | 15 17 | 17 40 | 2 5 | 17 11 | 1 45 | 17 55 | 5 19 | 23 38 | 0 41 | 16 42 | 1 4 | 22 49 | 0 38 | 16 5 | 0 45 | 21 41 | 0 37 | 17 36 | 5 51 | 21 22 | 21 36 | 12 18 | 8 44 | 6 55 |
| W12 | 14 59 | 13 41 | 3 16 | 16 34 | 1 46 | 17 58 | 5 14 | 23 35 | 0 42 | 16 45 | 1 5 | 22 49 | 0 38 | 16 6 | 0 45 | 21 41 | 0 37 | 17 36 | 5 51 | 21 22 | 21 37 | 12 16 | 8 45 | 6 55 |
| T 13 | 14 40 | 8 48 | 4 13 | 15 55 | 1 46 | 18 1 | 5 9 | 23 32 | 0 42 | 16 47 | 1 5 | 22 49 | 0 38 | 16 7 | 0 45 | 21 42 | 0 37 | 17 36 | 5 51 | 21 23 | 21 37 | 12 14 | 8 46 | 6 55 |
| F 14 | 14 22 | 3 27 | 4 52 | 15 16 | 1 45 | 18 4 | 5 4 | 23 28 | 0 43 | 16 50 | 1 5 | 22 49 | 0 38 | 16 8 | 0 45 | 21 42 | 0 37 | 17 36 | 5 51 | 21 23 | 21 38 | 12 12 | 8 47 | 6 55 |
| S 15 | 14 3 | 1s58 | 5 11 | 14 35 | 1 44 | 18 6 | 4 59 | 23 25 | 0 44 | 16 52 | 1 5 | 22 49 | 0 38 | 16 8 | 0 45 | 21 42 | 0 37 | 17 36 | 5 52 | 21 24 | 21 38 | 12 10 | 8 48 | 6 55 |
| S 16 | 13 44 | 7 9 | 5 10 | 13 53 | 1 42 | 18 9 | 4 54 | 23 21 | 0 44 | 16 54 | 1 5 | 22 50 | 0 38 | 16 9 | 0 45 | 21 42 | 0 37 | 17 36 | 5 52 | 21 24 | 21 39 | 12 9 | 8 49 | 6 55 |
| M17 | 13 25 | 11 49 | 4 51 | 13 10 | 1 39 | 18 11 | 4 48 | 23 17 | 0 45 | 16 57 | 1 5 | 22 50 | 0 37 | 16 10 | 0 45 | 21 42 | 0 37 | 17 36 | 5 52 | 21 25 | 21 39 | 12 7 | 8 50 | 6 55 |
| T 18 | 13 6 | 15 44 | 4 17 | 12 27 | 1 36 | 18 13 | 4 43 | 23 13 | 0 46 | 16 59 | 1 5 | 22 50 | 0 37 | 16 10 | 0 45 | 21 42 | 0 37 | 17 36 | 5 52 | 21 25 | 21 40 | 12 5 | 8 51 | 6 55 |
| W19 | 12 46 | 18 46 | 3 30 | 11 43 | 1 33 | 18 14 | 4 37 | 23 9 | 0 46 | 17 2 | 1 5 | 22 50 | 0 37 | 16 11 | 0 45 | 21 43 | 0 37 | 17 35 | 5 52 | 21 25 | 21 40 | 12 3 | 8 52 | 6 54 |
| T 20 | 12 26 | 20 49 | 2 33 | 10 59 | 1 29 | 18 16 | 4 32 | 23 5 | 0 47 | 17 4 | 1 5 | 22 50 | 0 37 | 16 12 | 0 45 | 21 43 | 0 37 | 17 35 | 5 52 | 21 24 | 21 41 | 12 1 | 8 53 | 6 54 |
| F 21 | 12 6 | 21 47 | 1 31 | 10 14 | 1 25 | 18 17 | 4 26 | 23 0 | 0 48 | 17 6 | 1 5 | 22 50 | 0 37 | 16 13 | 0 45 | 21 43 | 0 37 | 17 35 | 5 52 | 21 24 | 21 41 | 11 59 | 8 54 | 6 54 |
| S 22 | 11 46 | 21 42 | 0 26 | 9 29 | 1 20 | 18 18 | 4 20 | 22 56 | 0 48 | 17 9 | 1 5 | 22 51 | 0 37 | 16 13 | 0 45 | 21 43 | 0 37 | 17 35 | 5 52 | 21 24 | 21 42 | 11 57 | 8 55 | 6 54 |
| S 23 | 11 26 | 20 37 | 0s40 | 8 43 | 1 15 | 18 19 | 4 14 | 22 51 | 0 49 | 17 11 | 1 5 | 22 51 | 0 37 | 16 14 | 0 45 | 21 43 | 0 37 | 17 35 | 5 52 | 21 24 | 21 42 | 11 55 | 8 56 | 6 54 |
| M24 | 11 5 | 18 36 | 1 43 | 7 58 | 1 10 | 18 19 | 4 8 | 22 46 | 0 50 | 17 13 | 1 5 | 22 51 | 0 36 | 16 15 | 0 45 | 21 44 | 0 36 | 17 35 | 5 52 | 21 24 | 21 43 | 11 53 | 8 57 | 6 54 |
| T 25 | 10 45 | 15 48 | 2 41 | 7 12 | 1 4 | 18 19 | 4 2 | 22 41 | 0 50 | 17 15 | 1 5 | 22 51 | 0 36 | 16 15 | 0 45 | 21 44 | 0 36 | 17 35 | 5 52 | 21 25 | 21 43 | 11 51 | 8 58 | 6 54 |
| W26 | 10 24 | 12 22 | 3 32 | 6 26 | 0 58 | 18 19 | 3 56 | 22 35 | 0 51 | 17 17 | 1 6 | 22 51 | 0 36 | 16 16 | 0 45 | 21 44 | 0 36 | 17 35 | 5 52 | 21 26 | 21 44 | 11 49 | 8 59 | 6 53 |
| T 27 | 10 3 | 8 26 | 4 14 | 5 41 | 0 52 | 18 18 | 3 51 | 22 30 | 0 52 | 17 20 | 1 6 | 22 51 | 0 36 | 16 17 | 0 45 | 21 44 | 0 36 | 17 35 | 5 52 | 21 27 | 21 44 | 11 47 | 9 0 | 6 53 |
| F 28 | 9 41 | 4 12 | 4 45 | 4 55 | 0 46 | 18 17 | 3 44 | 22 24 | 0 52 | 17 22 | 1 6 | 22 52 | 0 36 | 16 18 | 0 45 | 21 44 | 0 36 | 17 35 | 5 52 | 21 28 | 21 45 | 11 45 | 9 1 | 6 53 |
| S 29 | 9 20 | 0n14 | 5 3 | 4 10 | 0 39 | 18 16 | 3 38 | 22 18 | 0 53 | 17 24 | 1 6 | 22 52 | 0 36 | 16 18 | 0 44 | 21 44 | 0 36 | 17 35 | 5 52 | 21 29 | 21 45 | 11 43 | 9 2 | 6 53 |
| S 30 | 8 59 | 4 41 | 5 8 | 3 25 | 0 32 | 18 14 | 3 32 | 22 12 | 0 54 | 17 26 | 1 6 | 22 52 | 0 36 | 16 19 | 0 44 | 21 44 | 0 36 | 17 35 | 5 53 | 21 31 | 21 46 | 11 41 | 9 3 | 6 53 |
| M31 | 8n37 | 9n 1 | 5s 0 | 2n39 | 0n25 | 18n12 | 3s26 | 22n 6 | 0n54 | 17s28 | 1s 6 | 22s52 | 0n36 | 16s20 | 0s44 | 21s45 | 0n36 | 17n35 | 5s53 | 21n32 | 21n46 | 11s39 | 9s 4 | 6n52 |

Julian Day Number = 2329401.5, Delta T = 32.62 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'21, Lahiri = 19°11'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## SEPTEMBER 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 42 23 | 8♍53'04 | 18♉58 | 25♍53 | 23♋23 | 25♋23 | 14°R43 | 2°R30 | 17°R27 | 17°R25 | 27♊24 | 22°R52 | 21♋23 | 9♓21 | 17°R25 | T 1 |
| W 2 | 22 46 20 | 9°51'18 | 1♊37 | 27°28 | 24°16 | 26° 1 | 14♒37 | 2♑30 | 17♒25 | 17♑25 | 27°25 | 22♋50 | 21°20 | 9°28 | 17♒22 | W 2 |
| T 3 | 22 50 16 | 10°49'34 | 14°35 | 29° 2 | 25° 9 | 26°38 | 14°30 | 2°30 | 17°23 | 17°24 | 27°25 | 22°D50 | 21°16 | 9°35 | 17°19 | T 3 |
| F 4 | 22 54 13 | 11°47'52 | 27°56 | 0♎35 | 26° 3 | 27°16 | 14°24 | 2°29 | 17°21 | 17°23 | 27°26 | 22°51 | 21°13 | 9°41 | 17°17 | F 4 |
| S 5 | 22 58 10 | 12°46'12 | 11♋42 | 2° 7 | 26°58 | 27°54 | 14°18 | 2°29 | 17°19 | 17°22 | 27°26 | 22°52 | 21°10 | 9°48 | 17°14 | S 5 |
| S 6 | 23 2 6 | 13°44'35 | 25°54 | 3°37 | 27°53 | 28°31 | 14°12 | 2°D29 | 17°17 | 17°22 | 27°27 | 22°R52 | 21° 7 | 9°55 | 17°11 | S 6 |
| M 7 | 23 6 3 | 14°42'59 | 10♌32 | 5° 6 | 28°49 | 29° 9 | 14° 6 | 2°29 | 17°15 | 17°21 | 27°27 | 22°51 | 21° 4 | 10° 2 | 17° 9 | M 7 |
| T 8 | 23 9 59 | 15°41'26 | 25°31 | 6°34 | 29°45 | 29°46 | 14° 1 | 2°29 | 17°13 | 17°20 | 27°27 | 22°47 | 21° 1 | 10° 8 | 17° 6 | T 8 |
| W 9 | 23 13 56 | 16°39'54 | 10♍44 | 8° 1 | 0♌42 | 0♌24 | 13°55 | 2°30 | 17°11 | 17°20 | 27°28 | 22°42 | 20°57 | 10°15 | 17° 3 | W 9 |
| T 10 | 23 17 52 | 17°38'24 | 26° 1 | 9°27 | 1°39 | 1° 1 | 13°50 | 2°30 | 17° 9 | 17°19 | 27°28 | 22°34 | 20°54 | 10°22 | 17° 1 | T 10 |
| F 11 | 23 21 49 | 18°36'57 | 11♎11 | 10°52 | 2°37 | 1°38 | 13°45 | 2°30 | 17° 7 | 17°18 | 27°29 | 22°26 | 20°51 | 10°28 | 16°58 | F 11 |
| S 12 | 23 25 45 | 19°35'30 | 26° 3 | 12°15 | 3°35 | 2°16 | 13°40 | 2°31 | 17° 5 | 17°18 | 27°29 | 22°17 | 20°48 | 10°35 | 16°56 | S 12 |
| S 13 | 23 29 42 | 20°34'06 | 10♏31 | 13°37 | 4°33 | 2°53 | 13°35 | 2°32 | 17° 3 | 17°17 | 27°29 | 22°10 | 20°45 | 10°42 | 16°53 | S 13 |
| M14 | 23 33 39 | 21°32'44 | 24°30 | 14°58 | 5°32 | 3°30 | 13°30 | 2°32 | 17° 1 | 17°17 | 27°30 | 22° 5 | 20°41 | 10°48 | 16°51 | M14 |
| T 15 | 23 37 35 | 22°31'23 | 7♐59 | 16°17 | 6°32 | 4° 7 | 13°26 | 2°33 | 16°59 | 17°16 | 27°30 | 22° 2 | 20°38 | 10°55 | 16°49 | T 15 |
| W16 | 23 41 32 | 23°30'04 | 21° 1 | 17°35 | 7°32 | 4°44 | 13°21 | 2°34 | 16°57 | 17°16 | 27°30 | 22°D 1 | 20°35 | 11° 2 | 16°46 | W16 |
| T 17 | 23 45 28 | 24°28'46 | 3♑40 | 18°52 | 8°32 | 5°21 | 13°17 | 2°35 | 16°56 | 17°16 | 27°30 | 22° 1 | 20°32 | 11° 8 | 16°44 | T 17 |
| F 18 | 23 49 25 | 25°27'31 | 15°59 | 20° 7 | 9°33 | 5°57 | 13°13 | 2°36 | 16°54 | 17°15 | 27°31 | 22°R 2 | 20°29 | 11°15 | 16°42 | F 18 |
| S 19 | 23 53 21 | 26°26'17 | 28° 4 | 21°20 | 10°34 | 6°34 | 13° 9 | 2°37 | 16°52 | 17°15 | 27°31 | 22° 2 | 20°26 | 11°22 | 16°40 | S 19 |
| S 20 | 23 57 18 | 27°25'04 | 10♒ 0 | 22°32 | 11°35 | 7°11 | 13° 6 | 2°39 | 16°51 | 17°15 | 27°31 | 22° 0 | 20°22 | 11°29 | 16°38 | S 20 |
| M21 | 0 1 14 | 28°23'54 | 21°51 | 23°42 | 12°37 | 7°48 | 13° 2 | 2°40 | 16°49 | 17°14 | 27°31 | 21°56 | 20°19 | 11°35 | 16°36 | M21 |
| T 22 | 0 5 11 | 29°22'45 | 3♓40 | 24°50 | 13°39 | 8°24 | 12°59 | 2°42 | 16°48 | 17°14 | 27°31 | 21°49 | 20°16 | 11°42 | 16°34 | T 22 |
| W23 | 0 9 7 | 0♎21'39 | 15°30 | 25°56 | 14°42 | 9° 1 | 12°56 | 2°43 | 16°46 | 17°14 | 27°31 | 21°40 | 20°13 | 11°49 | 16°32 | W23 |
| T 24 | 0 13 4 | 1°20'34 | 27°24 | 27° 0 | 15°44 | 9°37 | 12°53 | 2°45 | 16°45 | 17°14 | 27°31 | 21°28 | 20°10 | 11°55 | 16°30 | T 24 |
| F 25 | 0 17 1 | 2°19'31 | 9♈23 | 28° 2 | 16°47 | 10°13 | 12°50 | 2°47 | 16°43 | 17°14 | 27°32 | 21°15 | 20° 7 | 12° 2 | 16°28 | F 25 |
| S 26 | 0 20 57 | 3°18'30 | 21°28 | 29° 1 | 17°51 | 10°50 | 12°48 | 2°49 | 16°42 | 17°13 | 27°32 | 21° 2 | 20° 3 | 12° 9 | 16°26 | S 26 |
| S 27 | 0 24 54 | 4°17'32 | 3♉40 | 29°57 | 18°55 | 11°26 | 12°46 | 2°51 | 16°40 | 17°13 | 27°R32 | 20°50 | 20° 0 | 12°15 | 16°24 | S 27 |
| M28 | 0 28 50 | 5°16'35 | 16° 1 | 0♏50 | 19°59 | 12° 2 | 12°43 | 2°53 | 16°39 | 17°13 | 27°32 | 20°39 | 19°57 | 12°22 | 16°23 | M28 |
| T 29 | 0 32 47 | 6°15'41 | 28°31 | 1°41 | 21° 3 | 12°38 | 12°42 | 2°55 | 16°38 | 17°D13 | 27°32 | 20°31 | 19°54 | 12°29 | 16°21 | T 29 |
| W30 | 0 36 43 | 7♎14'50 | 11♊15 | 2♏27 | 22♌ 8 | 13♌14 | 12♒40 | 2♑57 | 16♒36 | 17♑13 | 27♊31 | 20♋26 | 19♋51 | 12♓35 | 16♒19 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n15 | 13n 3 | 4s37 | 1n55 | 0n18 | 18n10 | 3s20 | 22n 0 | 0n55 | 17s30 | 1s 6 | 22s52 | 0n35 | 16s20 | 0s44 | 21s45 | 0n36 | 17n35 | 5s53 | 21n32 | 21n47 | 11s37 | 9s 5 | 6n52 |
| W 2 | 7 53 | 16 35 | 4 1 | 1 10 | 0 10 | 18 7 | 3 14 | 21 54 | 0 56 | 17 32 | 1 6 | 22 52 | 0 35 | 16 21 | 0 44 | 21 45 | 0 36 | 17 35 | 5 53 | 21 33 | 21 47 | 11 35 | 9 6 | 6 52 |
| T 3 | 7 31 | 19 25 | 3 11 | 0 26 | 0 3 | 18 4 | 3 8 | 21 47 | 0 56 | 17 33 | 1 6 | 22 52 | 0 35 | 16 21 | 0 44 | 21 45 | 0 36 | 17 35 | 5 53 | 21 33 | 21 48 | 11 33 | 9 7 | 6 52 |
| F 4 | 7 9 | 21 18 | 2 10 | 0s18 | 0s 5 | 18 0 | 3 2 | 21 41 | 0 57 | 17 35 | 1 6 | 22 53 | 0 35 | 16 22 | 0 44 | 21 45 | 0 36 | 17 35 | 5 53 | 21 33 | 21 48 | 11 31 | 9 8 | 6 52 |
| S 5 | 6 47 | 21 58 | 1 0 | 1 2 | 0 12 | 17 56 | 2 56 | 21 34 | 0 58 | 17 37 | 1 6 | 22 53 | 0 35 | 16 23 | 0 44 | 21 45 | 0 36 | 17 34 | 5 53 | 21 32 | 21 49 | 11 29 | 9 9 | 6 51 |
| S 6 | 6 24 | 21 16 | 0n16 | 1 45 | 0 20 | 17 51 | 2 50 | 21 27 | 0 58 | 17 39 | 1 6 | 22 53 | 0 35 | 16 23 | 0 44 | 21 45 | 0 36 | 17 34 | 5 53 | 21 32 | 21 49 | 11 27 | 9 10 | 6 51 |
| M 7 | 6 2 | 19 8 | 1 34 | 2 28 | 0 28 | 17 46 | 2 44 | 21 20 | 0 59 | 17 40 | 1 6 | 22 53 | 0 35 | 16 24 | 0 44 | 21 45 | 0 36 | 17 34 | 5 53 | 21 33 | 21 50 | 11 25 | 9 12 | 6 51 |
| T 8 | 5 39 | 15 38 | 2 46 | 3 10 | 0 36 | 17 40 | 2 38 | 21 13 | 1 0 | 17 42 | 1 6 | 22 53 | 0 34 | 16 25 | 0 44 | 21 46 | 0 36 | 17 34 | 5 53 | 21 33 | 21 50 | 11 23 | 9 13 | 6 51 |
| W 9 | 5 16 | 11 4 | 3 48 | 3 51 | 0 44 | 17 34 | 2 32 | 21 5 | 1 1 | 17 44 | 1 6 | 22 53 | 0 34 | 16 25 | 0 44 | 21 46 | 0 36 | 17 34 | 5 53 | 21 34 | 21 51 | 11 21 | 9 14 | 6 50 |
| T 10 | 4 54 | 5 46 | 4 34 | 4 33 | 0 52 | 17 28 | 2 26 | 20 58 | 1 1 | 17 45 | 1 6 | 22 53 | 0 34 | 16 26 | 0 44 | 21 46 | 0 36 | 17 34 | 5 53 | 21 35 | 21 51 | 11 19 | 9 15 | 6 50 |
| F 11 | 4 31 | 0 10 | 4 59 | 5 13 | 1 0 | 17 21 | 2 20 | 20 50 | 1 2 | 17 46 | 1 6 | 22 53 | 0 34 | 16 26 | 0 44 | 21 46 | 0 36 | 17 34 | 5 53 | 21 37 | 21 52 | 11 17 | 9 16 | 6 50 |
| S 12 | 4 8 | 5s21 | 5 5 | 5 53 | 1 8 | 17 13 | 2 14 | 20 42 | 1 3 | 17 48 | 1 5 | 22 54 | 0 34 | 16 27 | 0 44 | 21 46 | 0 36 | 17 34 | 5 54 | 21 38 | 21 52 | 11 15 | 9 17 | 6 49 |
| S 13 | 3 45 | 10 25 | 4 50 | 6 33 | 1 16 | 17 6 | 2 8 | 20 35 | 1 3 | 17 49 | 1 5 | 22 54 | 0 34 | 16 27 | 0 44 | 21 46 | 0 36 | 17 34 | 5 54 | 21 39 | 21 53 | 11 13 | 9 18 | 6 49 |
| M14 | 3 22 | 14 45 | 4 18 | 7 11 | 1 23 | 16 57 | 2 2 | 20 27 | 1 4 | 17 51 | 1 5 | 22 54 | 0 34 | 16 28 | 0 44 | 21 46 | 0 36 | 17 34 | 5 54 | 21 40 | 21 53 | 11 11 | 9 19 | 6 49 |
| T 15 | 2 58 | 18 11 | 3 33 | 7 49 | 1 31 | 16 48 | 1 56 | 20 19 | 1 5 | 17 52 | 1 5 | 22 54 | 0 33 | 16 28 | 0 44 | 21 46 | 0 36 | 17 34 | 5 54 | 21 41 | 21 54 | 11 9 | 9 20 | 6 48 |
| W16 | 2 35 | 20 33 | 2 38 | 8 26 | 1 39 | 16 39 | 1 50 | 20 10 | 1 5 | 17 53 | 1 5 | 22 54 | 0 33 | 16 29 | 0 44 | 21 46 | 0 36 | 17 34 | 5 54 | 21 41 | 21 54 | 11 7 | 9 21 | 6 48 |
| T 17 | 2 12 | 21 49 | 1 37 | 9 3 | 1 47 | 16 29 | 1 44 | 20 2 | 1 6 | 17 54 | 1 5 | 22 54 | 0 33 | 16 30 | 0 44 | 21 46 | 0 36 | 17 34 | 5 54 | 21 41 | 21 55 | 11 5 | 9 22 | 6 48 |
| F 18 | 1 48 | 21 59 | 0 32 | 9 39 | 1 55 | 16 19 | 1 38 | 19 54 | 1 7 | 17 55 | 1 5 | 22 54 | 0 33 | 16 30 | 0 44 | 21 47 | 0 36 | 17 33 | 5 54 | 21 41 | 21 55 | 11 3 | 9 22 | 6 48 |
| S 19 | 1 25 | 21 7 | 0s32 | 10 13 | 2 2 | 16 8 | 1 33 | 19 45 | 1 7 | 17 56 | 1 5 | 22 54 | 0 33 | 16 31 | 0 44 | 21 47 | 0 36 | 17 33 | 5 54 | 21 41 | 21 56 | 11 1 | 9 23 | 6 47 |
| S 20 | 1 2 | 19 17 | 1 34 | 10 47 | 2 10 | 15 57 | 1 27 | 19 36 | 1 8 | 17 57 | 1 5 | 22 55 | 0 33 | 16 31 | 0 44 | 21 47 | 0 36 | 17 33 | 5 54 | 21 41 | 21 56 | 10 59 | 9 24 | 6 47 |
| M21 | 0 38 | 16 39 | 2 32 | 11 20 | 2 17 | 15 45 | 1 21 | 19 28 | 1 9 | 17 58 | 1 5 | 22 55 | 0 33 | 16 31 | 0 44 | 21 47 | 0 36 | 17 33 | 5 54 | 21 42 | 21 56 | 10 57 | 9 25 | 6 46 |
| T 22 | 0 15 | 13 19 | 3 22 | 11 52 | 2 24 | 15 33 | 1 16 | 19 19 | 1 9 | 17 59 | 1 5 | 22 55 | 0 33 | 16 32 | 0 44 | 21 47 | 0 36 | 17 33 | 5 54 | 21 43 | 21 57 | 10 54 | 9 26 | 6 46 |
| W23 | 0s 9 | 9 28 | 4 4 | 12 22 | 2 31 | 15 20 | 1 10 | 19 10 | 1 10 | 18 0 | 1 5 | 22 55 | 0 32 | 16 32 | 0 44 | 21 47 | 0 36 | 17 33 | 5 55 | 21 44 | 21 57 | 10 52 | 9 27 | 6 46 |
| T 24 | 0 32 | 5 15 | 4 35 | 12 52 | 2 37 | 15 7 | 1 4 | 19 1 | 1 11 | 18 1 | 1 5 | 22 55 | 0 32 | 16 33 | 0 44 | 21 47 | 0 36 | 17 33 | 5 55 | 21 46 | 21 58 | 10 50 | 9 28 | 6 45 |
| F 25 | 0 56 | 0 47 | 4 55 | 13 20 | 2 44 | 14 54 | 0 59 | 18 52 | 1 12 | 18 1 | 1 5 | 22 55 | 0 32 | 16 33 | 0 44 | 21 47 | 0 36 | 17 33 | 5 55 | 21 48 | 21 58 | 10 48 | 9 29 | 6 45 |
| S 26 | 1 19 | 3n44 | 5 1 | 13 47 | 2 50 | 14 40 | 0 54 | 18 42 | 1 12 | 18 2 | 1 5 | 22 55 | 0 32 | 16 34 | 0 44 | 21 47 | 0 36 | 17 33 | 5 55 | 21 50 | 21 59 | 10 46 | 9 30 | 6 45 |
| S 27 | 1 43 | 8 9 | 4 54 | 14 13 | 2 56 | 14 25 | 0 48 | 18 33 | 1 13 | 18 3 | 1 5 | 22 55 | 0 32 | 16 34 | 0 44 | 21 47 | 0 36 | 17 33 | 5 55 | 21 52 | 21 59 | 10 44 | 9 31 | 6 44 |
| M28 | 2 6 | 12 18 | 4 33 | 14 37 | 3 1 | 14 10 | 0 43 | 18 24 | 1 14 | 18 3 | 1 4 | 22 55 | 0 32 | 16 34 | 0 44 | 21 47 | 0 35 | 17 33 | 5 55 | 21 54 | 22 0 | 10 42 | 9 32 | 6 44 |
| T 29 | 2 29 | 16 0 | 3 58 | 14 59 | 3 6 | 13 55 | 0 38 | 18 14 | 1 14 | 18 4 | 1 4 | 22 55 | 0 32 | 16 35 | 0 44 | 21 47 | 0 35 | 17 33 | 5 55 | 21 55 | 22 0 | 10 40 | 9 32 | 6 44 |
| W30 | 2s53 | 19n 0 | 3s11 | 15s20 | 3s10 | 13n39 | 0s33 | 18n 5 | 1n15 | 18s 4 | 1s 4 | 22s55 | 0n32 | 16s35 | 0s44 | 21s47 | 0n35 | 17n32 | 5s55 | 21n55 | 22n 1 | 10s38 | 9s33 | 6n43 |

Julian Day Number = 2329432.5, Delta T = 32.57 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'25, Lahiri = 19°11'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## OCTOBER 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 40 40 | 8♎14'00 | 24♊13 | 3♏10 | 23♌13 | 13♌50 | 12°R38 | 3♑ 0 | 16°R35 | 17♑13 | 27°R31 | 20°R24 | 19♋47 | 12♓42 | 16°R18 | T 1 |
| F 2 | 0 44 36 | 9°13'13 | 7♋29 | 3°49 | 24°18 | 14°26 | 12♒37 | 3° 2 | 16♒34 | 17°14 | 27♊31 | 20°D23 | 19°44 | 12°49 | 16♒16 | F 2 |
| S 3 | 0 48 33 | 10°12'28 | 21° 5 | 4°23 | 25°23 | 15° 2 | 12°36 | 3° 5 | 16°33 | 17°14 | 27°31 | 20°R23 | 19°41 | 12°56 | 16°15 | S 3 |
| S 4 | 0 52 30 | 11°11'46 | 5♌ 5 | 4°53 | 26°29 | 15°37 | 12°35 | 3° 7 | 16°32 | 17°14 | 27°31 | 20♋23 | 19°38 | 13° 2 | 16°13 | S 4 |
| M 5 | 0 56 26 | 12°11'06 | 19°28 | 5°17 | 27°35 | 16°13 | 12°34 | 3°10 | 16°31 | 17°14 | 27°31 | 20°20 | 19°35 | 13° 9 | 16°12 | M 5 |
| T 6 | 1 0 23 | 13°10'28 | 4♍11 | 5°35 | 28°41 | 16°48 | 12°34 | 3°13 | 16°30 | 17°14 | 27°31 | 20°15 | 19°32 | 13°16 | 16°11 | T 6 |
| W 7 | 1 4 19 | 14° 9'53 | 19°11 | 5°46 | 29°48 | 17°24 | 12°33 | 3°16 | 16°29 | 17°14 | 27°30 | 20° 8 | 19°28 | 13°22 | 16°10 | W 7 |
| T 8 | 1 8 16 | 15° 9'19 | 4♎18 | 5°R51 | 0♍54 | 17°59 | 12°D33 | 3°19 | 16°28 | 17°15 | 27°30 | 19°58 | 19°25 | 13°29 | 16° 9 | T 8 |
| F 9 | 1 12 12 | 16° 8'48 | 19°23 | 5°48 | 2° 1 | 18°35 | 12°33 | 3°22 | 16°27 | 17°15 | 27°30 | 19°46 | 19°22 | 13°36 | 16° 7 | F 9 |
| S 10 | 1 16 9 | 17° 8'19 | 4♏16 | 5°38 | 3° 8 | 19°10 | 12°33 | 3°25 | 16°26 | 17°15 | 27°30 | 19°34 | 19°19 | 13°42 | 16° 6 | S 10 |
| S 11 | 1 20 5 | 18° 7'52 | 18°47 | 5°19 | 4°16 | 19°45 | 12°34 | 3°28 | 16°26 | 17°16 | 27°29 | 19°24 | 19°16 | 13°49 | 16° 5 | S 11 |
| M12 | 1 24 2 | 19° 7'27 | 2♐51 | 4°52 | 5°23 | 20°20 | 12°35 | 3°31 | 16°25 | 17°16 | 27°29 | 19°16 | 19°13 | 13°56 | 16° 5 | M12 |
| T 13 | 1 27 59 | 20° 7'03 | 16°26 | 4°16 | 6°31 | 20°55 | 12°35 | 3°35 | 16°24 | 17°17 | 27°29 | 19°11 | 19° 9 | 14° 2 | 16° 4 | T 13 |
| W14 | 1 31 55 | 21° 6'42 | 29°33 | 3°32 | 7°39 | 21°30 | 12°36 | 3°38 | 16°24 | 17°17 | 27°28 | 19° 8 | 19° 6 | 14° 9 | 16° 3 | W14 |
| T 15 | 1 35 52 | 22° 6'22 | 12♑14 | 2°39 | 8°47 | 22° 5 | 12°38 | 3°42 | 16°23 | 17°18 | 27°28 | 19° 7 | 19° 3 | 14°16 | 16° 2 | T 15 |
| F 16 | 1 39 48 | 23° 6'04 | 24°35 | 1°39 | 9°55 | 22°40 | 12°39 | 3°46 | 16°22 | 17°18 | 27°28 | 19° 7 | 19° 0 | 14°23 | 16° 2 | F 16 |
| S 17 | 1 43 45 | 24° 5'47 | 6♒40 | 0°33 | 11° 4 | 23°14 | 12°41 | 3°49 | 16°22 | 17°19 | 27°27 | 19° 7 | 18°57 | 14°29 | 16° 1 | S 17 |
| S 18 | 1 47 41 | 25° 5'33 | 18°35 | 29♎21 | 12°13 | 23°49 | 12°43 | 3°53 | 16°22 | 17°20 | 27°27 | 19° 5 | 18°53 | 14°36 | 16° 1 | S 18 |
| M19 | 1 51 38 | 26° 5'20 | 0♓25 | 28° 6 | 13°21 | 24°23 | 12°45 | 3°57 | 16°21 | 17°20 | 27°26 | 19° 1 | 18°50 | 14°43 | 16° 0 | M19 |
| T 20 | 1 55 34 | 27° 5'08 | 12°14 | 26°50 | 14°30 | 24°57 | 12°47 | 4° 1 | 16°21 | 17°21 | 27°26 | 18°54 | 18°47 | 14°49 | 16° 0 | T 20 |
| W21 | 1 59 31 | 28° 4'59 | 24° 7 | 25°35 | 15°40 | 25°32 | 12°50 | 4° 5 | 16°21 | 17°22 | 27°25 | 18°44 | 18°44 | 14°56 | 15°59 | W21 |
| T 22 | 2 3 28 | 29° 4'51 | 6♈ 6 | 24°24 | 16°49 | 26° 6 | 12°52 | 4° 9 | 16°20 | 17°22 | 27°25 | 18°32 | 18°41 | 15° 3 | 15°59 | T 22 |
| F 23 | 2 7 24 | 0♏ 4'45 | 18°13 | 23°18 | 17°58 | 26°40 | 12°55 | 4°14 | 16°20 | 17°23 | 27°24 | 18°18 | 18°38 | 15° 9 | 15°59 | F 23 |
| S 24 | 2 11 21 | 1° 4'41 | 0♉29 | 22°20 | 19° 8 | 27°14 | 12°58 | 4°18 | 16°20 | 17°24 | 27°24 | 18° 4 | 18°34 | 15°16 | 15°59 | S 24 |
| S 25 | 2 15 17 | 2° 4'39 | 12°55 | 21°31 | 20°18 | 27°48 | 13° 1 | 4°22 | 16°20 | 17°25 | 27°23 | 17°51 | 18°31 | 15°23 | 15°59 | S 25 |
| M26 | 2 19 14 | 3° 4'39 | 25°31 | 20°52 | 21°28 | 28°22 | 13° 5 | 4°27 | 16°D20 | 17°26 | 27°22 | 17°40 | 18°28 | 15°30 | 15°D59 | M26 |
| T 27 | 2 23 10 | 4° 4'41 | 8♊18 | 20°25 | 22°38 | 28°55 | 13° 8 | 4°31 | 16°20 | 17°27 | 27°22 | 17°32 | 18°25 | 15°36 | 15°59 | T 27 |
| W28 | 2 27 7 | 5° 4'45 | 21°15 | 20° 9 | 23°48 | 29°29 | 13°12 | 4°36 | 16°20 | 17°28 | 27°21 | 17°26 | 18°22 | 15°43 | 15°59 | W28 |
| T 29 | 2 31 3 | 6° 4'51 | 4♋24 | 20°D 5 | 24°59 | 0♍ 2 | 13°16 | 4°41 | 16°20 | 17°29 | 27°20 | 17°23 | 18°18 | 15°50 | 15°59 | T 29 |
| F 30 | 2 35 0 | 7° 5'00 | 17°46 | 20°12 | 26° 9 | 0°36 | 13°20 | 4°45 | 16°20 | 17°30 | 27°20 | 17°D23 | 18°15 | 15°56 | 15°59 | F 30 |
| S 31 | 2 38 57 | 8♏ 5'10 | 1♌22 | 20♎30 | 27♍20 | 1♍ 9 | 13♒25 | 4♑50 | 16♒21 | 17♑31 | 27♊19 | 17°R23 | 18♋12 | 16♓ 3 | 16♒ 0 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s16 | 21n 8 | 2s14 | 15s38 | 3s14 | 13n22 | 0s28 | 17n55 | 1n16 | 18s 4 | 1s 4 | 22s56 | 0n31 | 16s35 | 0s44 | 21s47 | 0n35 | 17n32 | 5s55 | 21n56 | 22n 1 | 10s36 | 9s34 | 6n43 |
| F 2 | 3 40 | 22 9 | 1 8 | 15 55 | 3 18 | 13 6 | 0 23 | 17 45 | 1 16 | 18 5 | 1 4 | 22 56 | 0 31 | 16 36 | 0 44 | 21 47 | 0 35 | 17 32 | 5 55 | 21 56 | 22 2 | 10 34 | 9 35 | 6 42 |
| S 3 | 4 3 | 21 53 | 0n 4 | 16 9 | 3 21 | 12 48 | 0 18 | 17 35 | 1 17 | 18 5 | 1 4 | 22 56 | 0 31 | 16 36 | 0 44 | 21 47 | 0 35 | 17 32 | 5 55 | 21 56 | 22 2 | 10 32 | 9 36 | 6 42 |
| S 4 | 4 26 | 20 16 | 1 17 | 16 21 | 3 23 | 12 31 | 0 13 | 17 25 | 1 18 | 18 5 | 1 4 | 22 56 | 0 31 | 16 36 | 0 44 | 21 47 | 0 35 | 17 32 | 5 55 | 21 56 | 22 3 | 10 29 | 9 37 | 6 41 |
| M 5 | 4 49 | 17 20 | 2 27 | 16 30 | 3 24 | 12 13 | 0 8 | 17 15 | 1 19 | 18 5 | 1 4 | 22 56 | 0 31 | 16 37 | 0 44 | 21 47 | 0 35 | 17 32 | 5 56 | 21 56 | 22 3 | 10 27 | 9 37 | 6 41 |
| T 6 | 5 13 | 13 14 | 3 29 | 16 37 | 3 24 | 11 54 | 0 3 | 17 5 | 1 19 | 18 5 | 1 4 | 22 56 | 0 31 | 16 37 | 0 44 | 21 47 | 0 35 | 17 32 | 5 56 | 21 57 | 22 3 | 10 25 | 9 38 | 6 41 |
| W 7 | 5 36 | 8 15 | 4 18 | 16 40 | 3 24 | 11 35 | 0n 1 | 16 55 | 1 20 | 18 5 | 1 4 | 22 56 | 0 31 | 16 37 | 0 44 | 21 47 | 0 35 | 17 32 | 5 56 | 21 58 | 22 4 | 10 23 | 9 39 | 6 40 |
| T 8 | 5 59 | 2 43 | 4 49 | 16 40 | 3 22 | 11 16 | 0 6 | 16 45 | 1 21 | 18 5 | 1 4 | 22 56 | 0 31 | 16 37 | 0 44 | 21 47 | 0 35 | 17 32 | 5 56 | 22 0 | 22 4 | 10 21 | 9 40 | 6 40 |
| F 9 | 6 22 | 2s58 | 5 0 | 16 36 | 3 19 | 10 56 | 0 11 | 16 35 | 1 22 | 18 5 | 1 3 | 22 56 | 0 30 | 16 38 | 0 44 | 21 47 | 0 35 | 17 32 | 5 56 | 22 1 | 22 5 | 10 19 | 9 40 | 6 39 |
| S 10 | 6 45 | 8 24 | 4 51 | 16 28 | 3 14 | 10 36 | 0 15 | 16 24 | 1 22 | 18 5 | 1 3 | 22 56 | 0 30 | 16 38 | 0 44 | 21 47 | 0 35 | 17 32 | 5 56 | 22 3 | 22 5 | 10 17 | 9 41 | 6 39 |
| S 11 | 7 7 | 13 14 | 4 22 | 16 16 | 3 8 | 10 16 | 0 19 | 16 14 | 1 23 | 18 5 | 1 3 | 22 56 | 0 30 | 16 38 | 0 44 | 21 47 | 0 35 | 17 32 | 5 56 | 22 5 | 22 6 | 10 15 | 9 42 | 6 39 |
| M12 | 7 30 | 17 12 | 3 38 | 16 0 | 3 0 | 9 55 | 0 24 | 16 3 | 1 24 | 18 4 | 1 3 | 22 56 | 0 30 | 16 38 | 0 44 | 21 47 | 0 35 | 17 31 | 5 56 | 22 6 | 22 6 | 10 13 | 9 42 | 6 38 |
| T 13 | 7 53 | 20 5 | 2 44 | 15 39 | 2 51 | 9 34 | 0 28 | 15 53 | 1 24 | 18 4 | 1 3 | 22 56 | 0 30 | 16 38 | 0 44 | 21 47 | 0 35 | 17 31 | 5 56 | 22 6 | 22 7 | 10 10 | 9 43 | 6 38 |
| W14 | 8 15 | 21 47 | 1 42 | 15 13 | 2 40 | 9 12 | 0 32 | 15 42 | 1 25 | 18 4 | 1 3 | 22 56 | 0 30 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 56 | 22 7 | 22 7 | 10 8 | 9 44 | 6 37 |
| T 15 | 8 37 | 22 19 | 0 36 | 14 43 | 2 27 | 8 51 | 0 36 | 15 32 | 1 26 | 18 3 | 1 3 | 22 56 | 0 30 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 56 | 22 7 | 22 8 | 10 6 | 9 44 | 6 37 |
| F 16 | 9 0 | 21 43 | 0s29 | 14 8 | 2 12 | 8 28 | 0 40 | 15 21 | 1 27 | 18 3 | 1 3 | 22 56 | 0 30 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 56 | 22 7 | 22 8 | 10 4 | 9 45 | 6 36 |
| S 17 | 9 22 | 20 7 | 1 31 | 13 30 | 1 56 | 8 6 | 0 44 | 15 10 | 1 27 | 18 2 | 1 3 | 22 56 | 0 29 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 56 | 22 7 | 22 8 | 10 2 | 9 45 | 6 36 |
| S 18 | 9 44 | 17 39 | 2 29 | 12 47 | 1 38 | 7 43 | 0 47 | 15 0 | 1 28 | 18 1 | 1 2 | 22 56 | 0 29 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 57 | 22 7 | 22 9 | 10 0 | 9 46 | 6 35 |
| M19 | 10 6 | 14 28 | 3 20 | 12 3 | 1 19 | 7 20 | 0 51 | 14 49 | 1 29 | 18 1 | 1 2 | 22 56 | 0 29 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 57 | 22 8 | 22 9 | 9 58 | 9 47 | 6 35 |
| T 20 | 10 27 | 10 42 | 4 2 | 11 16 | 0 59 | 6 57 | 0 54 | 14 38 | 1 30 | 18 0 | 1 2 | 22 56 | 0 29 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 57 | 22 9 | 22 10 | 9 55 | 9 47 | 6 35 |
| W21 | 10 49 | 6 31 | 4 33 | 10 30 | 0 38 | 6 33 | 0 58 | 14 27 | 1 30 | 17 59 | 1 2 | 22 56 | 0 29 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 57 | 22 10 | 22 10 | 9 53 | 9 48 | 6 34 |
| T 22 | 11 10 | 2 4 | 4 53 | 9 45 | 0 17 | 6 9 | 1 1 | 14 16 | 1 31 | 17 58 | 1 2 | 22 56 | 0 29 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 57 | 22 12 | 22 11 | 9 51 | 9 48 | 6 34 |
| F 23 | 11 31 | 2n32 | 5 0 | 9 1 | 0n 3 | 5 45 | 1 5 | 14 5 | 1 32 | 17 57 | 1 2 | 22 56 | 0 29 | 16 39 | 0 43 | 21 47 | 0 35 | 17 31 | 5 57 | 22 14 | 22 11 | 9 49 | 9 49 | 6 33 |
| S 24 | 11 52 | 7 5 | 4 53 | 8 21 | 0 23 | 5 21 | 1 8 | 13 54 | 1 33 | 17 56 | 1 2 | 22 56 | 0 29 | 16 39 | 0 43 | 21 46 | 0 35 | 17 31 | 5 57 | 22 16 | 22 12 | 9 47 | 9 49 | 6 33 |
| S 25 | 12 13 | 11 25 | 4 32 | 7 46 | 0 41 | 4 56 | 1 11 | 13 43 | 1 33 | 17 55 | 1 2 | 22 56 | 0 28 | 16 39 | 0 43 | 21 46 | 0 35 | 17 30 | 5 57 | 22 17 | 22 12 | 9 45 | 9 50 | 6 32 |
| M26 | 12 34 | 15 19 | 3 58 | 7 16 | 0 58 | 4 31 | 1 14 | 13 32 | 1 34 | 17 54 | 1 2 | 22 56 | 0 28 | 16 39 | 0 43 | 21 46 | 0 35 | 17 30 | 5 57 | 22 19 | 22 12 | 9 42 | 9 50 | 6 32 |
| T 27 | 12 54 | 18 35 | 3 11 | 6 51 | 1 14 | 4 6 | 1 17 | 13 21 | 1 35 | 17 53 | 1 1 | 22 56 | 0 28 | 16 39 | 0 43 | 21 46 | 0 35 | 17 30 | 5 57 | 22 20 | 22 13 | 9 40 | 9 51 | 6 31 |
| W28 | 13 14 | 20 58 | 2 14 | 6 33 | 1 27 | 3 41 | 1 20 | 13 10 | 1 36 | 17 52 | 1 1 | 22 56 | 0 28 | 16 39 | 0 43 | 21 46 | 0 35 | 17 30 | 5 57 | 22 21 | 22 13 | 9 38 | 9 51 | 6 31 |
| T 29 | 13 34 | 22 16 | 1 8 | 6 20 | 1 39 | 3 15 | 1 22 | 12 59 | 1 36 | 17 51 | 1 1 | 22 56 | 0 28 | 16 39 | 0 43 | 21 46 | 0 35 | 17 30 | 5 57 | 22 21 | 22 14 | 9 36 | 9 51 | 6 30 |
| F 30 | 13 54 | 22 20 | 0n 2 | 6 13 | 1 49 | 2 50 | 1 25 | 12 48 | 1 37 | 17 49 | 1 1 | 22 56 | 0 28 | 16 39 | 0 43 | 21 46 | 0 35 | 17 30 | 5 57 | 22 21 | 22 14 | 9 34 | 9 52 | 6 30 |
| S 31 | 14s14 | 21n 5 | 1n14 | 6s12 | 1n58 | 2n24 | 1n27 | 12n37 | 1n38 | 17s48 | 1s 1 | 22s56 | 0n28 | 16s39 | 0s43 | 21s46 | 0n34 | 17n30 | 5s57 | 22n21 | 22n15 | 9s32 | 9s52 | 6n29 |

Julian Day Number = 2329462.5, Delta T = 32.51 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'29, Lahiri = 19°11'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## NOVEMBER 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 42 53 | 9♏ 5'23 | 15♌14 | 20♎57 | 28♍31 | 1♍42 | 13♒29 | 4♑55 | 16♒21 | 17♑32 | 27°R18 | 17°R23 | 18♋ 9 | 16♓10 | 16♒ 0 | S 1 |
| M 2 | 2 46 50 | 10° 5'37 | 29°23 | 21°34 | 29°42 | 2°15 | 13°34 | 5° 0 | 16°21 | 17°33 | 27♊17 | 17♋22 | 18° 6 | 16°16 | 16° 1 | M 2 |
| T 3 | 2 50 46 | 11° 5'54 | 13♍47 | 22°19 | 0♎53 | 2°48 | 13°39 | 5° 5 | 16°22 | 17°34 | 27°17 | 17°18 | 18° 3 | 16°23 | 16° 1 | T 3 |
| W 4 | 2 54 43 | 12° 6'12 | 28°24 | 23°11 | 2° 4 | 3°21 | 13°44 | 5°10 | 16°22 | 17°35 | 27°16 | 17°11 | 17°59 | 16°30 | 16° 2 | W 4 |
| T 5 | 2 58 39 | 13° 6'33 | 13♎ 7 | 24° 9 | 3°16 | 3°54 | 13°49 | 5°15 | 16°23 | 17°36 | 27°15 | 17° 3 | 17°56 | 16°37 | 16° 2 | T 5 |
| F 6 | 3 2 36 | 14° 6'55 | 27°51 | 25°13 | 4°27 | 4°26 | 13°55 | 5°21 | 16°23 | 17°38 | 27°14 | 16°53 | 17°53 | 16°43 | 16° 3 | F 6 |
| S 7 | 3 6 32 | 15° 7'20 | 12♏27 | 26°22 | 5°39 | 4°59 | 14° 0 | 5°26 | 16°24 | 17°39 | 27°13 | 16°42 | 17°50 | 16°50 | 16° 4 | S 7 |
| S 8 | 3 10 29 | 16° 7'46 | 26°47 | 27°35 | 6°50 | 5°31 | 14° 6 | 5°31 | 16°24 | 17°40 | 27°13 | 16°33 | 17°47 | 16°57 | 16° 5 | S 8 |
| M 9 | 3 14 25 | 17° 8'13 | 10♐46 | 28°52 | 8° 2 | 6° 3 | 14°12 | 5°37 | 16°25 | 17°42 | 27°12 | 16°26 | 17°44 | 17° 3 | 16° 6 | M 9 |
| T 10 | 3 18 22 | 18° 8'43 | 24°20 | 0♏12 | 9°14 | 6°35 | 14°18 | 5°42 | 16°26 | 17°43 | 27°11 | 16°21 | 17°40 | 17°10 | 16° 6 | T 10 |
| W11 | 3 22 19 | 19° 9'13 | 7♑28 | 1°34 | 10°26 | 7° 7 | 14°24 | 5°48 | 16°27 | 17°44 | 27°10 | 16°19 | 17°37 | 17°17 | 16° 8 | W11 |
| T 12 | 3 26 15 | 20° 9'45 | 20°13 | 2°58 | 11°38 | 7°39 | 14°31 | 5°53 | 16°27 | 17°46 | 27° 9 | 16°D19 | 17°34 | 17°24 | 16° 9 | T 12 |
| F 13 | 3 30 12 | 21°10'19 | 2♒36 | 4°25 | 12°50 | 8°11 | 14°37 | 5°59 | 16°28 | 17°47 | 27° 8 | 16°19 | 17°31 | 17°30 | 16°10 | F 13 |
| S 14 | 3 34 8 | 22°10'53 | 14°44 | 5°52 | 14° 3 | 8°43 | 14°44 | 6° 5 | 16°29 | 17°49 | 27° 7 | 16°20 | 17°28 | 17°37 | 16°11 | S 14 |
| S 15 | 3 38 5 | 23°11'29 | 26°41 | 7°21 | 15°15 | 9°14 | 14°51 | 6°10 | 16°30 | 17°50 | 27° 6 | 16°R21 | 17°24 | 17°44 | 16°12 | S 15 |
| M16 | 3 42 1 | 24°12'06 | 8♓32 | 8°51 | 16°27 | 9°45 | 14°58 | 6°16 | 16°31 | 17°52 | 27° 5 | 16°19 | 17°21 | 17°50 | 16°14 | M16 |
| T 17 | 3 45 58 | 25°12'44 | 20°23 | 10°22 | 17°40 | 10°16 | 15° 6 | 6°22 | 16°32 | 17°53 | 27° 4 | 16°16 | 17°18 | 17°57 | 16°15 | T 17 |
| W18 | 3 49 55 | 26°13'23 | 2♈18 | 11°54 | 18°52 | 10°47 | 15°13 | 6°28 | 16°34 | 17°55 | 27° 3 | 16°10 | 17°15 | 18° 4 | 16°17 | W18 |
| T 19 | 3 53 51 | 27°14'04 | 14°21 | 13°26 | 20° 5 | 11°18 | 15°21 | 6°34 | 16°35 | 17°56 | 27° 2 | 16° 3 | 17°12 | 18°10 | 16°18 | T 19 |
| F 20 | 3 57 48 | 28°14'45 | 26°35 | 14°58 | 21°18 | 11°49 | 15°28 | 6°40 | 16°36 | 17°58 | 27° 1 | 15°54 | 17° 9 | 18°17 | 16°20 | F 20 |
| S 21 | 4 1 44 | 29°15'28 | 9♉ 2 | 16°31 | 22°31 | 12°19 | 15°36 | 6°46 | 16°37 | 17°59 | 27° 0 | 15°45 | 17° 5 | 18°24 | 16°21 | S 21 |
| S 22 | 4 5 41 | 0♐16'12 | 21°43 | 18° 4 | 23°44 | 12°50 | 15°44 | 6°52 | 16°39 | 18° 1 | 26°59 | 15°36 | 17° 2 | 18°31 | 16°23 | S 22 |
| M23 | 4 9 37 | 1°16'58 | 4♊38 | 19°38 | 24°57 | 13°20 | 15°52 | 6°58 | 16°40 | 18° 3 | 26°58 | 15°29 | 16°59 | 18°37 | 16°25 | M23 |
| T 24 | 4 13 34 | 2°17'45 | 17°46 | 21°11 | 26°10 | 13°50 | 16° 1 | 7° 4 | 16°42 | 18° 4 | 26°57 | 15°24 | 16°56 | 18°44 | 16°27 | T 24 |
| W25 | 4 17 30 | 3°18'33 | 1♋ 6 | 22°45 | 27°23 | 14°20 | 16° 9 | 7°11 | 16°43 | 18° 6 | 26°56 | 15°21 | 16°53 | 18°51 | 16°29 | W25 |
| T 26 | 4 21 27 | 4°19'22 | 14°36 | 24°18 | 28°36 | 14°50 | 16°18 | 7°17 | 16°45 | 18° 8 | 26°55 | 15°D20 | 16°50 | 18°57 | 16°31 | T 26 |
| F 27 | 4 25 24 | 5°20'13 | 28°17 | 25°52 | 29°49 | 15°19 | 16°26 | 7°23 | 16°46 | 18°10 | 26°54 | 15°20 | 16°46 | 19° 4 | 16°33 | F 27 |
| S 28 | 4 29 20 | 6°21'05 | 12♌ 7 | 27°26 | 1♏ 3 | 15°49 | 16°35 | 7°30 | 16°48 | 18°12 | 26°53 | 15°22 | 16°43 | 19°11 | 16°35 | S 28 |
| S 29 | 4 33 17 | 7°21'59 | 26° 4 | 28°59 | 2°16 | 16°18 | 16°44 | 7°36 | 16°49 | 18°13 | 26°52 | 15°23 | 16°40 | 19°18 | 16°37 | S 29 |
| M30 | 4 37 13 | 8♐22'53 | 10♍10 | 0♐33 | 3♏29 | 16♍47 | 16♒54 | 7♑42 | 16♒51 | 18♑15 | 26♊50 | 15°R23 | 16♋37 | 19♓24 | 16♒39 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s33 | 18n34 | 2n22 | 6s16 | 2n 4 | 1n58 | 1n30 | 12n25 | 1n39 | 17s47 | 1s 1 | 22s56 | 0n28 | 16s39 | 0s43 | 21s46 | 0n34 | 17n30 | 5s57 | 22n21 | 22n15 | 9s29 | 9s52 | 6n29 |
| M 2 | 14 52 | 14 53 | 3 24 | 6 25 | 2 10 | 1 32 | 1 32 | 12 14 | 1 40 | 17 45 | 1 1 | 22 56 | 0 28 | 16 39 | 0 43 | 21 46 | 0 34 | 17 30 | 5 57 | 22 21 | 22 15 | 9 27 | 9 53 | 6 29 |
| T 3 | 15 11 | 10 17 | 4 13 | 6 38 | 2 13 | 1 5 | 1 34 | 12 3 | 1 40 | 17 44 | 1 1 | 22 56 | 0 27 | 16 39 | 0 43 | 21 45 | 0 34 | 17 30 | 5 58 | 22 22 | 22 16 | 9 25 | 9 53 | 6 28 |
| W 4 | 15 30 | 5 2 | 4 47 | 6 56 | 2 15 | 0 39 | 1 36 | 11 52 | 1 41 | 17 42 | 1 1 | 22 55 | 0 27 | 16 38 | 0 43 | 21 45 | 0 34 | 17 30 | 5 58 | 22 22 | 22 16 | 9 23 | 9 53 | 6 28 |
| T 5 | 15 48 | 0s33 | 5 2 | 7 16 | 2 17 | 0 12 | 1 38 | 11 41 | 1 42 | 17 40 | 1 0 | 22 55 | 0 27 | 16 38 | 0 43 | 21 45 | 0 34 | 17 30 | 5 58 | 22 24 | 22 17 | 9 21 | 9 53 | 6 27 |
| F 6 | 16 6 | 6 6 | 4 58 | 7 39 | 2 17 | 0s14 | 1 40 | 11 30 | 1 43 | 17 39 | 1 0 | 22 55 | 0 27 | 16 38 | 0 43 | 21 45 | 0 34 | 17 30 | 5 58 | 22 25 | 22 17 | 9 18 | 9 54 | 6 27 |
| S 7 | 16 24 | 11 15 | 4 34 | 8 5 | 2 16 | 0 41 | 1 42 | 11 18 | 1 44 | 17 37 | 1 0 | 22 55 | 0 27 | 16 38 | 0 43 | 21 45 | 0 34 | 17 30 | 5 58 | 22 26 | 22 17 | 9 16 | 9 54 | 6 26 |
| S 8 | 16 42 | 15 42 | 3 52 | 8 33 | 2 14 | 1 8 | 1 44 | 11 7 | 1 44 | 17 35 | 1 0 | 22 55 | 0 27 | 16 38 | 0 43 | 21 45 | 0 34 | 17 29 | 5 58 | 22 27 | 22 18 | 9 14 | 9 54 | 6 26 |
| M 9 | 16 59 | 19 10 | 2 58 | 9 3 | 2 11 | 1 35 | 1 45 | 10 56 | 1 45 | 17 33 | 1 0 | 22 55 | 0 27 | 16 37 | 0 43 | 21 45 | 0 34 | 17 29 | 5 58 | 22 28 | 22 18 | 9 12 | 9 54 | 6 25 |
| T 10 | 17 16 | 21 27 | 1 55 | 9 34 | 2 8 | 2 2 | 1 47 | 10 45 | 1 46 | 17 31 | 1 0 | 22 55 | 0 27 | 16 37 | 0 43 | 21 45 | 0 34 | 17 29 | 5 58 | 22 29 | 22 19 | 9 10 | 9 54 | 6 25 |
| W11 | 17 33 | 22 29 | 0 47 | 10 6 | 2 4 | 2 29 | 1 48 | 10 34 | 1 47 | 17 29 | 1 0 | 22 55 | 0 27 | 16 37 | 0 43 | 21 44 | 0 34 | 17 29 | 5 58 | 22 29 | 22 19 | 9 7 | 9 55 | 6 24 |
| T 12 | 17 49 | 22 18 | 0s21 | 10 39 | 2 0 | 2 56 | 1 50 | 10 23 | 1 48 | 17 27 | 1 0 | 22 55 | 0 27 | 16 36 | 0 43 | 21 44 | 0 34 | 17 29 | 5 58 | 22 29 | 22 20 | 9 5 | 9 55 | 6 24 |
| F 13 | 18 5 | 21 1 | 1 26 | 11 13 | 1 55 | 3 23 | 1 51 | 10 12 | 1 48 | 17 25 | 1 0 | 22 54 | 0 26 | 16 36 | 0 43 | 21 44 | 0 34 | 17 29 | 5 58 | 22 29 | 22 20 | 9 3 | 9 55 | 6 24 |
| S 14 | 18 21 | 18 47 | 2 27 | 11 47 | 1 49 | 3 50 | 1 52 | 10 0 | 1 49 | 17 23 | 0 59 | 22 54 | 0 26 | 16 36 | 0 42 | 21 44 | 0 34 | 17 29 | 5 58 | 22 29 | 22 20 | 9 1 | 9 55 | 6 23 |
| S 15 | 18 36 | 15 46 | 3 19 | 12 21 | 1 44 | 4 17 | 1 53 | 9 49 | 1 50 | 17 21 | 0 59 | 22 54 | 0 26 | 16 36 | 0 42 | 21 44 | 0 34 | 17 29 | 5 58 | 22 29 | 22 21 | 8 58 | 9 55 | 6 23 |
| M16 | 18 51 | 12 8 | 4 3 | 12 56 | 1 38 | 4 44 | 1 54 | 9 38 | 1 51 | 17 19 | 0 59 | 22 54 | 0 26 | 16 35 | 0 42 | 21 44 | 0 34 | 17 29 | 5 58 | 22 29 | 22 21 | 8 56 | 9 55 | 6 22 |
| T 17 | 19 6 | 8 3 | 4 37 | 13 30 | 1 32 | 5 11 | 1 55 | 9 27 | 1 52 | 17 17 | 0 59 | 22 54 | 0 26 | 16 35 | 0 42 | 21 43 | 0 34 | 17 29 | 5 58 | 22 29 | 22 22 | 8 54 | 9 55 | 6 22 |
| W18 | 19 21 | 3 38 | 4 58 | 14 5 | 1 25 | 5 38 | 1 55 | 9 16 | 1 53 | 17 14 | 0 59 | 22 54 | 0 26 | 16 34 | 0 42 | 21 43 | 0 34 | 17 29 | 5 58 | 22 30 | 22 22 | 8 52 | 9 55 | 6 21 |
| T 19 | 19 35 | 0n57 | 5 7 | 14 39 | 1 19 | 6 5 | 1 56 | 9 5 | 1 54 | 17 12 | 0 59 | 22 53 | 0 26 | 16 34 | 0 42 | 21 43 | 0 34 | 17 29 | 5 58 | 22 31 | 22 22 | 8 49 | 9 55 | 6 21 |
| F 20 | 19 48 | 5 35 | 5 2 | 15 12 | 1 12 | 6 31 | 1 56 | 8 54 | 1 54 | 17 10 | 0 59 | 22 53 | 0 26 | 16 34 | 0 42 | 21 43 | 0 34 | 17 29 | 5 58 | 22 32 | 22 23 | 8 47 | 9 55 | 6 20 |
| S 21 | 20 2 | 10 4 | 4 42 | 15 46 | 1 5 | 6 58 | 1 57 | 8 43 | 1 55 | 17 7 | 0 59 | 22 53 | 0 26 | 16 33 | 0 42 | 21 43 | 0 34 | 17 29 | 5 58 | 22 33 | 22 23 | 8 45 | 9 55 | 6 20 |
| S 22 | 20 15 | 14 13 | 4 9 | 16 19 | 0 58 | 7 25 | 1 57 | 8 33 | 1 56 | 17 5 | 0 59 | 22 53 | 0 26 | 16 33 | 0 42 | 21 42 | 0 34 | 17 29 | 5 58 | 22 34 | 22 24 | 8 43 | 9 55 | 6 20 |
| M23 | 20 27 | 17 47 | 3 22 | 16 51 | 0 52 | 7 51 | 1 57 | 8 22 | 1 57 | 17 2 | 0 59 | 22 52 | 0 25 | 16 32 | 0 42 | 21 42 | 0 34 | 17 29 | 5 58 | 22 35 | 22 24 | 8 40 | 9 55 | 6 19 |
| T 24 | 20 39 | 20 32 | 2 24 | 17 22 | 0 45 | 8 17 | 1 58 | 8 11 | 1 58 | 17 0 | 0 58 | 22 52 | 0 25 | 16 32 | 0 42 | 21 42 | 0 34 | 17 29 | 5 58 | 22 36 | 22 24 | 8 38 | 9 54 | 6 19 |
| W25 | 20 51 | 22 12 | 1 16 | 17 53 | 0 37 | 8 44 | 1 58 | 8 0 | 1 59 | 16 57 | 0 58 | 22 52 | 0 25 | 16 31 | 0 42 | 21 42 | 0 34 | 17 29 | 5 58 | 22 36 | 22 25 | 8 36 | 9 54 | 6 18 |
| T 26 | 21 3 | 22 37 | 0 4 | 18 23 | 0 30 | 9 10 | 1 58 | 7 49 | 2 0 | 16 54 | 0 58 | 22 52 | 0 25 | 16 31 | 0 42 | 21 42 | 0 34 | 17 29 | 5 58 | 22 36 | 22 25 | 8 34 | 9 54 | 6 18 |
| F 27 | 21 14 | 21 41 | 1n10 | 18 53 | 0 23 | 9 36 | 1 58 | 7 39 | 2 1 | 16 52 | 0 58 | 22 51 | 0 25 | 16 30 | 0 42 | 21 41 | 0 34 | 17 29 | 5 58 | 22 36 | 22 26 | 8 31 | 9 54 | 6 17 |
| S 28 | 21 24 | 19 26 | 2 20 | 19 21 | 0 16 | 10 1 | 1 57 | 7 28 | 2 2 | 16 49 | 0 58 | 22 51 | 0 25 | 16 30 | 0 42 | 21 41 | 0 34 | 17 29 | 5 58 | 22 36 | 22 26 | 8 29 | 9 54 | 6 17 |
| S 29 | 21 35 | 16 2 | 3 23 | 19 49 | 0 9 | 10 27 | 1 57 | 7 18 | 2 2 | 16 46 | 0 58 | 22 51 | 0 25 | 16 29 | 0 42 | 21 41 | 0 34 | 17 29 | 5 58 | 22 36 | 22 26 | 8 27 | 9 54 | 6 17 |
| M30 | 21s45 | 11n42 | 4n15 | 20s16 | 0n 3 | 10s52 | 1n57 | 7n 7 | 2n 3 | 16s43 | 0s58 | 22s51 | 0n25 | 16s29 | 0s42 | 21s41 | 0n34 | 17n29 | 5s58 | 22n36 | 22n27 | 8s25 | 9s53 | 6n16 |

Julian Day Number = 2329493.5, Delta T = 32.46 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'33, Lahiri = 19°11'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1665
# geocentric

## DECEMBER 1665 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 41 10 | 9♐23'50 | 24♍21 | 2♐ 7 | 4♏43 | 17♍16 | 17♒ 3 | 7♑49 | 16♒53 | 18♑17 | 26°R49 | 15°R23 | 16♋34 | 19♓31 | 16♒41 | T 1 |
| W 2 | 4 45 6 | 10°24'47 | 8♎37 | 3°41 | 5°57 | 17°45 | 17°12 | 7°55 | 16°55 | 18°19 | 26♊48 | 15♋20 | 16°30 | 19°38 | 16°43 | W 2 |
| T 3 | 4 49 3 | 11°25'46 | 22°55 | 5°15 | 7°10 | 18°13 | 17°22 | 8° 2 | 16°57 | 18°21 | 26°47 | 15°16 | 16°27 | 19°44 | 16°46 | T 3 |
| F 4 | 4 52 59 | 12°26'46 | 7♏ 9 | 6°49 | 8°24 | 18°42 | 17°31 | 8° 9 | 16°58 | 18°23 | 26°46 | 15°11 | 16°24 | 19°51 | 16°48 | F 4 |
| S 5 | 4 56 56 | 13°27'47 | 21°17 | 8°22 | 9°38 | 19°10 | 17°41 | 8°15 | 17° 0 | 18°25 | 26°45 | 15° 5 | 16°21 | 19°58 | 16°51 | S 5 |
| S 6 | 5 0 53 | 14°28'49 | 5♐12 | 9°56 | 10°51 | 19°38 | 17°51 | 8°22 | 17° 2 | 18°27 | 26°44 | 15° 1 | 16°18 | 20° 4 | 16°53 | S 6 |
| M 7 | 5 4 49 | 15°29'52 | 18°52 | 11°30 | 12° 5 | 20° 5 | 18° 1 | 8°29 | 17° 4 | 18°29 | 26°42 | 14°57 | 16°15 | 20°11 | 16°56 | M 7 |
| T 8 | 5 8 46 | 16°30'56 | 2♑13 | 13° 4 | 13°19 | 20°33 | 18°11 | 8°35 | 17° 7 | 18°31 | 26°41 | 14°55 | 16°11 | 20°18 | 16°58 | T 8 |
| W 9 | 5 12 42 | 17°32'00 | 15°14 | 14°39 | 14°33 | 21° 0 | 18°22 | 8°42 | 17° 9 | 18°33 | 26°40 | 14°D54 | 16° 8 | 20°25 | 17° 1 | W 9 |
| T 10 | 5 16 39 | 18°33'05 | 27°56 | 16°13 | 15°47 | 21°27 | 18°32 | 8°49 | 17°11 | 18°35 | 26°39 | 14°55 | 16° 5 | 20°31 | 17° 4 | T 10 |
| F 11 | 5 20 35 | 19°34'11 | 10♒20 | 17°47 | 17° 1 | 21°54 | 18°43 | 8°56 | 17°13 | 18°37 | 26°38 | 14°56 | 16° 2 | 20°38 | 17° 7 | F 11 |
| S 12 | 5 24 32 | 20°35'17 | 22°30 | 19°22 | 18°15 | 22°20 | 18°53 | 9° 2 | 17°15 | 18°39 | 26°36 | 14°58 | 15°59 | 20°45 | 17° 9 | S 12 |
| S 13 | 5 28 28 | 21°36'23 | 4♓28 | 20°56 | 19°29 | 22°47 | 19° 4 | 9° 9 | 17°17 | 18°41 | 26°35 | 15° 0 | 15°56 | 20°51 | 17°12 | S 13 |
| M14 | 5 32 25 | 22°37'30 | 16°21 | 22°31 | 20°43 | 23°13 | 19°15 | 9°16 | 17°20 | 18°43 | 26°34 | 15° 1 | 15°52 | 20°58 | 17°15 | M14 |
| T 15 | 5 36 22 | 23°38'37 | 28°13 | 24° 6 | 21°58 | 23°39 | 19°26 | 9°23 | 17°22 | 18°45 | 26°33 | 15°R 1 | 15°49 | 21° 5 | 17°18 | T 15 |
| W16 | 5 40 18 | 24°39'44 | 10♈ 8 | 25°41 | 23°12 | 24° 4 | 19°37 | 9°30 | 17°25 | 18°47 | 26°32 | 15° 0 | 15°46 | 21°12 | 17°21 | W16 |
| T 17 | 5 44 15 | 25°40'51 | 22°12 | 27°16 | 24°26 | 24°30 | 19°48 | 9°37 | 17°27 | 18°49 | 26°30 | 14°58 | 15°43 | 21°18 | 17°24 | T 17 |
| F 18 | 5 48 11 | 26°41'59 | 4♉28 | 28°52 | 25°40 | 24°55 | 19°59 | 9°44 | 17°29 | 18°51 | 26°29 | 14°56 | 15°40 | 21°25 | 17°27 | F 18 |
| S 19 | 5 52 8 | 27°43'06 | 17° 0 | 0♑28 | 26°54 | 25°20 | 20°11 | 9°51 | 17°32 | 18°53 | 26°28 | 14°53 | 15°36 | 21°32 | 17°30 | S 19 |
| S 20 | 5 56 4 | 28°44'14 | 29°50 | 2° 4 | 28° 9 | 25°44 | 20°22 | 9°58 | 17°34 | 18°56 | 26°27 | 14°50 | 15°33 | 21°38 | 17°34 | S 20 |
| M21 | 6 0 1 | 29°45'23 | 13♊ 0 | 3°40 | 29°23 | 26° 8 | 20°34 | 10° 5 | 17°37 | 18°58 | 26°26 | 14°48 | 15°30 | 21°45 | 17°37 | M21 |
| T 22 | 6 3 57 | 0♑46'31 | 26°28 | 5°16 | 0♐37 | 26°33 | 20°45 | 10°12 | 17°40 | 19° 0 | 26°24 | 14°47 | 15°27 | 21°52 | 17°40 | T 22 |
| W23 | 6 7 54 | 1°47'40 | 10♋12 | 6°53 | 1°52 | 26°56 | 20°57 | 10°19 | 17°42 | 19° 2 | 26°23 | 14°D46 | 15°24 | 21°59 | 17°43 | W23 |
| T 24 | 6 11 51 | 2°48'48 | 24°11 | 8°30 | 3° 6 | 27°20 | 21° 9 | 10°26 | 17°45 | 19° 4 | 26°22 | 14°46 | 15°21 | 22° 5 | 17°47 | T 24 |
| F 25 | 6 15 47 | 3°49'58 | 8♌21 | 10° 7 | 4°21 | 27°43 | 21°21 | 10°33 | 17°48 | 19° 7 | 26°21 | 14°47 | 15°17 | 22°12 | 17°50 | F 25 |
| S 26 | 6 19 44 | 4°51'07 | 22°36 | 11°45 | 5°35 | 28° 6 | 21°33 | 10°40 | 17°50 | 19° 9 | 26°20 | 14°48 | 15°14 | 22°19 | 17°54 | S 26 |
| S 27 | 6 23 40 | 5°52'17 | 6♍54 | 13°22 | 6°50 | 28°28 | 21°45 | 10°47 | 17°53 | 19°11 | 26°19 | 14°49 | 15°11 | 22°25 | 17°57 | S 27 |
| M28 | 6 27 37 | 6°53'27 | 21°11 | 15° 0 | 8° 4 | 28°50 | 21°57 | 10°54 | 17°56 | 19°13 | 26°17 | 14°49 | 15° 8 | 22°32 | 18° 1 | M28 |
| T 29 | 6 31 33 | 7°54'37 | 5♎24 | 16°38 | 9°19 | 29°12 | 22° 9 | 11° 1 | 17°59 | 19°15 | 26°16 | 14°R49 | 15° 5 | 22°39 | 18° 4 | T 29 |
| W30 | 6 35 30 | 8°55'48 | 19°31 | 18°17 | 10°33 | 29°34 | 22°22 | 11° 8 | 18° 2 | 19°18 | 26°15 | 14°49 | 15° 2 | 22°46 | 18° 8 | W30 |
| T 31 | 6 39 26 | 9♑56'58 | 3♏30 | 19♑55 | 11♐48 | 29♍55 | 22♒34 | 11♑15 | 18♒ 5 | 19♑20 | 26♊14 | 14♋49 | 14♋58 | 22♓52 | 18♒11 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s54 | 6n42 | 4n51 | 20s42 | 0s 4 | 11s18 | 1n56 | 6n57 | 2n 4 | 16s40 | 0s58 | 22s50 | 0n25 | 16s28 | 0s42 | 21s40 | 0n34 | 17n29 | 5s58 | 22n36 | 22n27 | 8s22 | 9s53 | 6n16 |
| W 2 | 22 3 | 1 19 | 5 9 | 21 6 | 0 11 | 11 42 | 1 56 | 6 46 | 2 5 | 16 37 | 0 58 | 22 50 | 0 25 | 16 28 | 0 42 | 21 40 | 0 34 | 17 29 | 5 58 | 22 36 | 22 28 | 8 20 | 9 53 | 6 15 |
| T 3 | 22 12 | 4s 9 | 5 9 | 21 30 | 0 18 | 12 7 | 1 55 | 6 36 | 2 6 | 16 34 | 0 58 | 22 50 | 0 25 | 16 27 | 0 42 | 21 40 | 0 34 | 17 29 | 5 58 | 22 36 | 22 28 | 8 18 | 9 52 | 6 15 |
| F 4 | 22 20 | 9 22 | 4 49 | 21 53 | 0 24 | 12 32 | 1 54 | 6 26 | 2 7 | 16 31 | 0 58 | 22 49 | 0 24 | 16 26 | 0 42 | 21 40 | 0 34 | 17 29 | 5 58 | 22 37 | 22 28 | 8 15 | 9 52 | 6 15 |
| S 5 | 22 27 | 14 3 | 4 12 | 22 15 | 0 31 | 12 56 | 1 53 | 6 16 | 2 8 | 16 28 | 0 57 | 22 49 | 0 24 | 16 26 | 0 42 | 21 40 | 0 34 | 17 29 | 5 58 | 22 38 | 22 29 | 8 13 | 9 52 | 6 14 |
| S 6 | 22 35 | 17 55 | 3 20 | 22 36 | 0 37 | 13 20 | 1 53 | 6 5 | 2 9 | 16 25 | 0 57 | 22 49 | 0 24 | 16 25 | 0 42 | 21 39 | 0 34 | 17 29 | 5 58 | 22 38 | 22 29 | 8 11 | 9 51 | 6 14 |
| M 7 | 22 41 | 20 44 | 2 18 | 22 55 | 0 44 | 13 43 | 1 52 | 5 55 | 2 10 | 16 22 | 0 57 | 22 48 | 0 24 | 16 25 | 0 42 | 21 39 | 0 34 | 17 29 | 5 58 | 22 39 | 22 30 | 8 9 | 9 51 | 6 13 |
| T 8 | 22 48 | 22 19 | 1 9 | 23 14 | 0 50 | 14 6 | 1 51 | 5 45 | 2 11 | 16 19 | 0 57 | 22 48 | 0 24 | 16 24 | 0 42 | 21 39 | 0 34 | 17 29 | 5 58 | 22 39 | 22 30 | 8 6 | 9 51 | 6 13 |
| W 9 | 22 54 | 22 38 | 0s 2 | 23 31 | 0 56 | 14 29 | 1 49 | 5 36 | 2 12 | 16 15 | 0 57 | 22 48 | 0 24 | 16 23 | 0 42 | 21 39 | 0 34 | 17 29 | 5 58 | 22 39 | 22 30 | 8 4 | 9 50 | 6 13 |
| T 10 | 22 59 | 21 46 | 1 11 | 23 47 | 1 1 | 14 52 | 1 48 | 5 26 | 2 13 | 16 12 | 0 57 | 22 47 | 0 24 | 16 23 | 0 42 | 21 38 | 0 33 | 17 29 | 5 58 | 22 39 | 22 31 | 8 2 | 9 50 | 6 12 |
| F 11 | 23 4 | 19 51 | 2 15 | 24 2 | 1 7 | 15 14 | 1 47 | 5 16 | 2 14 | 16 9 | 0 57 | 22 47 | 0 24 | 16 22 | 0 42 | 21 38 | 0 33 | 17 29 | 5 58 | 22 39 | 22 31 | 7 59 | 9 49 | 6 12 |
| S 12 | 23 9 | 17 4 | 3 12 | 24 16 | 1 13 | 15 36 | 1 46 | 5 6 | 2 15 | 16 5 | 0 57 | 22 47 | 0 24 | 16 21 | 0 42 | 21 38 | 0 33 | 17 29 | 5 58 | 22 38 | 22 31 | 7 57 | 9 49 | 6 12 |
| S 13 | 23 13 | 13 36 | 4 0 | 24 28 | 1 18 | 15 58 | 1 44 | 4 57 | 2 16 | 16 2 | 0 57 | 22 46 | 0 24 | 16 20 | 0 42 | 21 38 | 0 33 | 17 29 | 5 58 | 22 38 | 22 32 | 7 55 | 9 48 | 6 11 |
| M14 | 23 17 | 9 38 | 4 37 | 24 39 | 1 23 | 16 19 | 1 43 | 4 48 | 2 17 | 15 59 | 0 57 | 22 46 | 0 24 | 16 20 | 0 42 | 21 37 | 0 33 | 17 29 | 5 58 | 22 38 | 22 32 | 7 52 | 9 48 | 6 11 |
| T 15 | 23 20 | 5 20 | 5 2 | 24 49 | 1 28 | 16 40 | 1 41 | 4 38 | 2 18 | 15 55 | 0 57 | 22 45 | 0 24 | 16 19 | 0 42 | 21 37 | 0 33 | 17 29 | 5 58 | 22 38 | 22 33 | 7 50 | 9 47 | 6 10 |
| W16 | 23 22 | 0 48 | 5 14 | 24 57 | 1 33 | 17 0 | 1 40 | 4 29 | 2 19 | 15 52 | 0 57 | 22 45 | 0 23 | 16 18 | 0 42 | 21 37 | 0 33 | 17 29 | 5 58 | 22 38 | 22 33 | 7 48 | 9 47 | 6 10 |
| T 17 | 23 25 | 3n49 | 5 13 | 25 4 | 1 37 | 17 20 | 1 38 | 4 20 | 2 20 | 15 48 | 0 57 | 22 45 | 0 23 | 16 17 | 0 42 | 21 36 | 0 33 | 17 29 | 5 58 | 22 38 | 22 33 | 7 45 | 9 46 | 6 10 |
| F 18 | 23 26 | 8 22 | 4 57 | 25 10 | 1 41 | 17 39 | 1 36 | 4 11 | 2 21 | 15 44 | 0 57 | 22 44 | 0 23 | 16 17 | 0 41 | 21 36 | 0 33 | 17 29 | 5 58 | 22 39 | 22 34 | 7 43 | 9 45 | 6 9 |
| S 19 | 23 28 | 12 40 | 4 27 | 25 14 | 1 45 | 17 58 | 1 34 | 4 2 | 2 22 | 15 41 | 0 56 | 22 44 | 0 23 | 16 16 | 0 41 | 21 36 | 0 33 | 17 29 | 5 58 | 22 39 | 22 34 | 7 41 | 9 45 | 6 9 |
| S 20 | 23 29 | 16 31 | 3 43 | 25 17 | 1 49 | 18 17 | 1 33 | 3 53 | 2 23 | 15 37 | 0 56 | 22 43 | 0 23 | 16 15 | 0 41 | 21 36 | 0 33 | 17 29 | 5 57 | 22 39 | 22 34 | 7 39 | 9 44 | 6 9 |
| M21 | 23 29 | 19 38 | 2 47 | 25 18 | 1 53 | 18 35 | 1 31 | 3 44 | 2 24 | 15 33 | 0 56 | 22 43 | 0 23 | 16 14 | 0 41 | 21 35 | 0 33 | 17 29 | 5 57 | 22 40 | 22 35 | 7 36 | 9 44 | 6 8 |
| T 22 | 23 29 | 21 47 | 1 40 | 25 18 | 1 56 | 18 52 | 1 29 | 3 36 | 2 25 | 15 29 | 0 56 | 22 42 | 0 23 | 16 13 | 0 41 | 21 35 | 0 33 | 17 29 | 5 57 | 22 40 | 22 35 | 7 34 | 9 43 | 6 8 |
| W23 | 23 28 | 22 40 | 0 25 | 25 17 | 1 59 | 19 9 | 1 27 | 3 27 | 2 26 | 15 26 | 0 56 | 22 42 | 0 23 | 16 13 | 0 41 | 21 35 | 0 33 | 17 29 | 5 57 | 22 40 | 22 35 | 7 32 | 9 42 | 6 8 |
| T 24 | 23 27 | 22 10 | 0n52 | 25 13 | 2 1 | 19 26 | 1 25 | 3 19 | 2 27 | 15 22 | 0 56 | 22 42 | 0 23 | 16 12 | 0 41 | 21 34 | 0 33 | 17 29 | 5 57 | 22 40 | 22 36 | 7 29 | 9 42 | 6 8 |
| F 25 | 23 26 | 20 15 | 2 7 | 25 9 | 2 3 | 19 42 | 1 23 | 3 11 | 2 28 | 15 18 | 0 56 | 22 41 | 0 23 | 16 11 | 0 41 | 21 34 | 0 33 | 17 29 | 5 57 | 22 40 | 22 36 | 7 27 | 9 41 | 6 7 |
| S 26 | 23 24 | 17 4 | 3 15 | 25 2 | 2 5 | 19 57 | 1 20 | 3 3 | 2 29 | 15 14 | 0 56 | 22 41 | 0 23 | 16 10 | 0 41 | 21 34 | 0 33 | 17 29 | 5 57 | 22 40 | 22 37 | 7 24 | 9 40 | 6 7 |
| S 27 | 23 21 | 12 52 | 4 10 | 24 54 | 2 7 | 20 12 | 1 18 | 2 55 | 2 31 | 15 10 | 0 56 | 22 40 | 0 23 | 16 9 | 0 41 | 21 34 | 0 33 | 17 29 | 5 57 | 22 39 | 22 37 | 7 22 | 9 39 | 6 7 |
| M28 | 23 18 | 7 57 | 4 51 | 24 45 | 2 8 | 20 26 | 1 16 | 2 47 | 2 32 | 15 6 | 0 56 | 22 40 | 0 23 | 16 8 | 0 41 | 21 33 | 0 33 | 17 29 | 5 57 | 22 39 | 22 37 | 7 20 | 9 39 | 6 6 |
| T 29 | 23 15 | 2 38 | 5 13 | 24 34 | 2 8 | 20 40 | 1 14 | 2 39 | 2 33 | 15 2 | 0 56 | 22 39 | 0 22 | 16 7 | 0 41 | 21 33 | 0 33 | 17 29 | 5 57 | 22 39 | 22 38 | 7 17 | 9 38 | 6 6 |
| W30 | 23 11 | 2s46 | 5 16 | 24 21 | 2 8 | 20 53 | 1 11 | 2 32 | 2 34 | 14 58 | 0 56 | 22 39 | 0 22 | 16 7 | 0 41 | 21 33 | 0 33 | 17 29 | 5 57 | 22 39 | 22 38 | 7 15 | 9 37 | 6 6 |
| T 31 | 23s 6 | 7s59 | 5n 0 | 24s 7 | 2s 8 | 21s 6 | 1n 9 | 2n24 | 2n35 | 14s54 | 0s56 | 22s38 | 0n22 | 16s 6 | 0s41 | 21s32 | 0n33 | 17n29 | 5s57 | 22n39 | 22n38 | 7s13 | 9s36 | 6n 6 |

Julian Day Number = 2329523.5, Delta T = 32.40 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'37, Lahiri = 19°11'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## JANUARY 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 43 23 | 10♑58'09 | 17♏19 | 21♑34 | 13♐ 2 | 0♎16 | 22♒46 | 11♑22 | 18♒ 7 | 19♑22 | 26°R13 | 14°R49 | 14♋55 | 22♓59 | 18♒15 | F 1 |
| S 2 | 6 47 20 | 11°59'21 | 0♐58 | 23°12 | 14°17 | 0°36 | 22°59 | 11°29 | 18°10 | 19°24 | 26♊11 | 14♋48 | 14°52 | 23° 6 | 18°19 | S 2 |
| S 3 | 6 51 16 | 13° 0'32 | 14°25 | 24°51 | 15°32 | 0°56 | 23°12 | 11°36 | 18°13 | 19°27 | 26°10 | 14°48 | 14°49 | 23°12 | 18°22 | S 3 |
| M 4 | 6 55 13 | 14° 1'43 | 27°38 | 26°29 | 16°46 | 1°16 | 23°24 | 11°44 | 18°16 | 19°29 | 26° 9 | 14°48 | 14°46 | 23°19 | 18°26 | M 4 |
| T 5 | 6 59 9 | 15° 2'54 | 10♑38 | 28° 7 | 18° 1 | 1°36 | 23°37 | 11°51 | 18°19 | 19°31 | 26° 8 | 14°48 | 14°42 | 23°26 | 18°30 | T 5 |
| W 6 | 7 3 6 | 16° 4'05 | 23°23 | 29°44 | 19°16 | 1°54 | 23°50 | 11°58 | 18°22 | 19°34 | 26° 7 | 14°48 | 14°39 | 23°33 | 18°34 | W 6 |
| T 7 | 7 7 2 | 17° 5'15 | 5♒55 | 1♒21 | 20°30 | 2°13 | 24° 3 | 12° 5 | 18°25 | 19°36 | 26° 6 | 14°48 | 14°36 | 23°39 | 18°38 | T 7 |
| F 8 | 7 10 59 | 18° 6'25 | 18°13 | 2°57 | 21°45 | 2°31 | 24°16 | 12°12 | 18°29 | 19°38 | 26° 5 | 14°47 | 14°33 | 23°46 | 18°41 | F 8 |
| S 9 | 7 14 56 | 19° 7'35 | 0♓20 | 4°32 | 23° 0 | 2°49 | 24°29 | 12°19 | 18°32 | 19°40 | 26° 4 | 14°47 | 14°30 | 23°53 | 18°45 | S 9 |
| S 10 | 7 18 52 | 20° 8'43 | 12°19 | 6° 5 | 24°15 | 3° 6 | 24°42 | 12°26 | 18°35 | 19°43 | 26° 3 | 14°46 | 14°27 | 23°59 | 18°49 | S 10 |
| M11 | 7 22 49 | 21° 9'51 | 24°12 | 7°37 | 25°29 | 3°23 | 24°56 | 12°33 | 18°38 | 19°45 | 26° 1 | 14°45 | 14°23 | 24° 6 | 18°53 | M11 |
| T 12 | 7 26 45 | 22°10'58 | 6♈ 3 | 9° 7 | 26°44 | 3°39 | 25° 9 | 12°40 | 18°41 | 19°47 | 26° 0 | 14°45 | 14°20 | 24°13 | 18°57 | T 12 |
| W13 | 7 30 42 | 23°12'05 | 17°57 | 10°34 | 27°59 | 3°55 | 25°22 | 12°47 | 18°44 | 19°50 | 25°59 | 14°D44 | 14°17 | 24°20 | 19° 1 | W13 |
| T 14 | 7 34 38 | 24°13'10 | 29°58 | 11°58 | 29°14 | 4°11 | 25°35 | 12°54 | 18°48 | 19°52 | 25°58 | 14°44 | 14°14 | 24°26 | 19° 5 | T 14 |
| F 15 | 7 38 35 | 25°14'15 | 12♉12 | 13°19 | 0♑28 | 4°26 | 25°49 | 13° 1 | 18°51 | 19°54 | 25°57 | 14°45 | 14°11 | 24°33 | 19° 9 | F 15 |
| S 16 | 7 42 31 | 26°15'19 | 24°42 | 14°35 | 1°43 | 4°40 | 26° 2 | 13° 8 | 18°54 | 19°56 | 25°56 | 14°46 | 14° 8 | 24°40 | 19°13 | S 16 |
| S 17 | 7 46 28 | 27°16'21 | 7♊33 | 15°46 | 2°58 | 4°55 | 26°16 | 13°15 | 18°57 | 19°59 | 25°55 | 14°47 | 14° 4 | 24°46 | 19°17 | S 17 |
| M18 | 7 50 25 | 28°17'23 | 20°46 | 16°52 | 4°13 | 5° 8 | 26°29 | 13°22 | 19° 1 | 20° 1 | 25°54 | 14°48 | 14° 1 | 24°53 | 19°21 | M18 |
| T 19 | 7 54 21 | 29°18'24 | 4♋24 | 17°51 | 5°27 | 5°21 | 26°43 | 13°29 | 19° 4 | 20° 3 | 25°53 | 14°49 | 13°58 | 25° 0 | 19°26 | T 19 |
| W20 | 7 58 18 | 0♒19'24 | 18°26 | 18°43 | 6°42 | 5°34 | 26°57 | 13°36 | 19° 7 | 20° 5 | 25°52 | 14°R49 | 13°55 | 25° 7 | 19°30 | W20 |
| T 21 | 8 2 14 | 1°20'23 | 2♌48 | 19°26 | 7°57 | 5°46 | 27°11 | 13°42 | 19°11 | 20° 8 | 25°51 | 14°48 | 13°52 | 25°13 | 19°34 | T 21 |
| F 22 | 8 6 11 | 2°21'22 | 17°26 | 20° 1 | 9°12 | 5°57 | 27°24 | 13°49 | 19°14 | 20°10 | 25°50 | 14°47 | 13°48 | 25°20 | 19°38 | F 22 |
| S 23 | 8 10 7 | 3°22'19 | 2♍12 | 20°25 | 10°26 | 6° 8 | 27°38 | 13°56 | 19°17 | 20°12 | 25°49 | 14°45 | 13°45 | 25°27 | 19°42 | S 23 |
| S 24 | 8 14 4 | 4°23'15 | 16°58 | 20°39 | 11°41 | 6°18 | 27°52 | 14° 3 | 19°21 | 20°14 | 25°49 | 14°42 | 13°42 | 25°33 | 19°46 | S 24 |
| M25 | 8 18 0 | 5°24'11 | 1♎39 | 20°R43 | 12°56 | 6°28 | 28° 6 | 14°10 | 19°24 | 20°17 | 25°48 | 14°39 | 13°39 | 25°40 | 19°51 | M25 |
| T 26 | 8 21 57 | 6°25'06 | 16° 8 | 20°35 | 14°11 | 6°37 | 28°20 | 14°16 | 19°28 | 20°19 | 25°47 | 14°37 | 13°36 | 25°47 | 19°55 | T 26 |
| W27 | 8 25 54 | 7°26'00 | 0♏20 | 20°16 | 15°26 | 6°46 | 28°34 | 14°23 | 19°31 | 20°21 | 25°46 | 14°36 | 13°33 | 25°54 | 19°59 | W27 |
| T 28 | 8 29 50 | 8°26'53 | 14°15 | 19°45 | 16°41 | 6°54 | 28°48 | 14°30 | 19°34 | 20°23 | 25°45 | 14°D36 | 13°29 | 26° 0 | 20° 3 | T 28 |
| F 29 | 8 33 47 | 9°27'46 | 27°52 | 19° 5 | 17°55 | 7° 1 | 29° 2 | 14°37 | 19°38 | 20°25 | 25°44 | 14°37 | 13°26 | 26° 7 | 20° 8 | F 29 |
| S 30 | 8 37 43 | 10°28'38 | 11♐11 | 18°15 | 19°10 | 7° 8 | 29°16 | 14°43 | 19°41 | 20°28 | 25°43 | 14°38 | 13°23 | 26°14 | 20°12 | S 30 |
| S 31 | 8 41 40 | 11♒29'29 | 24♐15 | 17♒17 | 20♑25 | 7♎14 | 29♒30 | 14♑50 | 19♒45 | 20♑30 | 25♊43 | 14♋40 | 13♋20 | 26♓20 | 20♒16 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s 2 | 12s45 | 4n28 | 23s51 | 2s 8 | 21s18 | 1n 7 | 2n17 | 2n36 | 14s50 | 0s56 | 22s37 | 0n22 | 16s 5 | 0s41 | 21s32 | 0n33 | 17n29 | 5s57 | 22n39 | 22n39 | 7s10 | 9s35 | 6n 5 |
| S 2 | 22 56 | 16 48 | 3 40 | 23 33 | 2 6 | 21 29 | 1 4 | 2 10 | 2 37 | 14 45 | 0 56 | 22 37 | 0 22 | 16 4 | 0 41 | 21 32 | 0 33 | 17 29 | 5 57 | 22 40 | 22 39 | 7 8 | 9 34 | 6 5 |
| S 3 | 22 51 | 19 54 | 2 41 | 23 14 | 2 5 | 21 40 | 1 2 | 2 3 | 2 39 | 14 41 | 0 56 | 22 36 | 0 22 | 16 3 | 0 41 | 21 31 | 0 33 | 17 29 | 5 56 | 22 40 | 22 39 | 7 6 | 9 34 | 6 5 |
| M 4 | 22 44 | 21 54 | 1 34 | 22 54 | 2 2 | 21 50 | 0 59 | 1 56 | 2 40 | 14 37 | 0 56 | 22 36 | 0 22 | 16 2 | 0 41 | 21 31 | 0 33 | 17 29 | 5 56 | 22 40 | 22 40 | 7 3 | 9 33 | 6 4 |
| T 5 | 22 38 | 22 40 | 0 23 | 22 31 | 1 59 | 22 0 | 0 57 | 1 49 | 2 41 | 14 33 | 0 56 | 22 35 | 0 22 | 16 1 | 0 41 | 21 31 | 0 33 | 17 29 | 5 56 | 22 40 | 22 40 | 7 1 | 9 32 | 6 4 |
| W 6 | 22 31 | 22 14 | 0s47 | 22 8 | 1 56 | 22 9 | 0 54 | 1 43 | 2 42 | 14 28 | 0 56 | 22 35 | 0 22 | 16 0 | 0 41 | 21 30 | 0 33 | 17 29 | 5 56 | 22 40 | 22 40 | 6 58 | 9 31 | 6 4 |
| T 7 | 22 23 | 20 41 | 1 55 | 21 42 | 1 51 | 22 17 | 0 52 | 1 37 | 2 43 | 14 24 | 0 56 | 22 34 | 0 22 | 15 59 | 0 41 | 21 30 | 0 33 | 17 30 | 5 56 | 22 40 | 22 41 | 6 56 | 9 30 | 6 4 |
| F 8 | 22 15 | 18 10 | 2 55 | 21 16 | 1 47 | 22 25 | 0 49 | 1 31 | 2 44 | 14 20 | 0 56 | 22 34 | 0 22 | 15 58 | 0 41 | 21 30 | 0 33 | 17 30 | 5 56 | 22 40 | 22 41 | 6 54 | 9 29 | 6 4 |
| S 9 | 22 7 | 14 54 | 3 47 | 20 48 | 1 41 | 22 31 | 0 46 | 1 25 | 2 46 | 14 15 | 0 56 | 22 33 | 0 22 | 15 57 | 0 41 | 21 30 | 0 33 | 17 30 | 5 56 | 22 40 | 22 42 | 6 51 | 9 28 | 6 3 |
| S 10 | 21 58 | 11 4 | 4 28 | 20 19 | 1 34 | 22 38 | 0 44 | 1 19 | 2 47 | 14 11 | 0 56 | 22 32 | 0 22 | 15 56 | 0 41 | 21 29 | 0 33 | 17 30 | 5 56 | 22 40 | 22 42 | 6 49 | 9 27 | 6 3 |
| M11 | 21 49 | 6 51 | 4 57 | 19 48 | 1 27 | 22 43 | 0 41 | 1 13 | 2 48 | 14 7 | 0 56 | 22 32 | 0 22 | 15 55 | 0 41 | 21 29 | 0 33 | 17 30 | 5 56 | 22 40 | 22 42 | 6 47 | 9 26 | 6 3 |
| T 12 | 21 39 | 2 23 | 5 13 | 19 17 | 1 19 | 22 48 | 0 38 | 1 8 | 2 49 | 14 2 | 0 56 | 22 31 | 0 21 | 15 54 | 0 41 | 21 29 | 0 33 | 17 30 | 5 56 | 22 40 | 22 43 | 6 44 | 9 25 | 6 3 |
| W13 | 21 29 | 2n11 | 5 16 | 18 45 | 1 10 | 22 52 | 0 36 | 1 3 | 2 50 | 13 58 | 0 55 | 22 31 | 0 21 | 15 53 | 0 41 | 21 28 | 0 33 | 17 30 | 5 55 | 22 40 | 22 43 | 6 42 | 9 24 | 6 2 |
| T 14 | 21 19 | 6 42 | 5 6 | 18 12 | 1 0 | 22 56 | 0 33 | 0 58 | 2 52 | 13 53 | 0 55 | 22 30 | 0 21 | 15 52 | 0 41 | 21 28 | 0 33 | 17 30 | 5 55 | 22 40 | 22 43 | 6 39 | 9 23 | 6 2 |
| F 15 | 21 8 | 11 3 | 4 41 | 17 39 | 0 50 | 22 58 | 0 30 | 0 53 | 2 53 | 13 48 | 0 55 | 22 29 | 0 21 | 15 51 | 0 41 | 21 28 | 0 33 | 17 30 | 5 55 | 22 40 | 22 44 | 6 37 | 9 22 | 6 2 |
| S 16 | 20 56 | 15 3 | 4 3 | 17 6 | 0 38 | 23 1 | 0 28 | 0 48 | 2 54 | 13 44 | 0 55 | 22 29 | 0 21 | 15 50 | 0 41 | 21 27 | 0 33 | 17 30 | 5 55 | 22 40 | 22 44 | 6 35 | 9 21 | 6 2 |
| S 17 | 20 45 | 18 27 | 3 12 | 16 32 | 0 25 | 23 2 | 0 25 | 0 44 | 2 55 | 13 39 | 0 55 | 22 28 | 0 21 | 15 49 | 0 41 | 21 27 | 0 33 | 17 30 | 5 55 | 22 40 | 22 44 | 6 32 | 9 20 | 6 2 |
| M18 | 20 32 | 21 1 | 2 9 | 16 0 | 0 12 | 23 3 | 0 22 | 0 39 | 2 57 | 13 35 | 0 55 | 22 28 | 0 21 | 15 48 | 0 41 | 21 27 | 0 33 | 17 30 | 5 55 | 22 40 | 22 45 | 6 30 | 9 19 | 6 2 |
| T 19 | 20 20 | 22 27 | 0 57 | 15 28 | 0n 3 | 23 3 | 0 20 | 0 35 | 2 58 | 13 30 | 0 55 | 22 27 | 0 21 | 15 47 | 0 41 | 21 26 | 0 33 | 17 31 | 5 55 | 22 39 | 22 45 | 6 27 | 9 18 | 6 1 |
| W20 | 20 7 | 22 32 | 0n20 | 14 58 | 0 18 | 23 2 | 0 17 | 0 32 | 2 59 | 13 25 | 0 55 | 22 26 | 0 21 | 15 46 | 0 41 | 21 26 | 0 33 | 17 31 | 5 55 | 22 39 | 22 45 | 6 25 | 9 17 | 6 1 |
| T 21 | 19 54 | 21 9 | 1 38 | 14 29 | 0 34 | 23 1 | 0 14 | 0 28 | 3 0 | 13 20 | 0 55 | 22 26 | 0 21 | 15 45 | 0 41 | 21 26 | 0 33 | 17 31 | 5 54 | 22 39 | 22 46 | 6 23 | 9 15 | 6 1 |
| F 22 | 19 40 | 18 21 | 2 50 | 14 2 | 0 51 | 22 58 | 0 11 | 0 25 | 3 2 | 13 16 | 0 55 | 22 25 | 0 21 | 15 44 | 0 41 | 21 25 | 0 33 | 17 31 | 5 54 | 22 40 | 22 46 | 6 20 | 9 14 | 6 1 |
| S 23 | 19 26 | 14 20 | 3 52 | 13 38 | 1 8 | 22 56 | 0 9 | 0 21 | 3 3 | 13 11 | 0 55 | 22 24 | 0 21 | 15 43 | 0 41 | 21 25 | 0 33 | 17 31 | 5 54 | 22 40 | 22 46 | 6 18 | 9 13 | 6 1 |
| S 24 | 19 12 | 9 26 | 4 39 | 13 17 | 1 25 | 22 52 | 0 6 | 0 19 | 3 4 | 13 6 | 0 55 | 22 24 | 0 21 | 15 42 | 0 41 | 21 25 | 0 33 | 17 31 | 5 54 | 22 40 | 22 47 | 6 15 | 9 12 | 6 1 |
| M25 | 18 57 | 4 2 | 5 7 | 12 59 | 1 43 | 22 48 | 0 3 | 0 16 | 3 5 | 13 1 | 0 55 | 22 23 | 0 21 | 15 41 | 0 41 | 21 24 | 0 33 | 17 31 | 5 54 | 22 40 | 22 47 | 6 13 | 9 11 | 6 0 |
| T 26 | 18 42 | 1s31 | 5 15 | 12 45 | 2 1 | 22 43 | 0 1 | 0 13 | 3 7 | 12 56 | 0 55 | 22 22 | 0 21 | 15 39 | 0 41 | 21 24 | 0 33 | 17 31 | 5 54 | 22 41 | 22 47 | 6 10 | 9 10 | 6 0 |
| W27 | 18 27 | 6 52 | 5 3 | 12 35 | 2 18 | 22 37 | 0s 2 | 0 11 | 3 8 | 12 52 | 0 55 | 22 22 | 0 21 | 15 38 | 0 41 | 21 24 | 0 33 | 17 31 | 5 54 | 22 41 | 22 48 | 6 8 | 9 8 | 6 0 |
| T 28 | 18 11 | 11 47 | 4 34 | 12 29 | 2 34 | 22 31 | 0 5 | 0 9 | 3 9 | 12 47 | 0 55 | 22 21 | 0 21 | 15 37 | 0 41 | 21 23 | 0 33 | 17 32 | 5 53 | 22 41 | 22 48 | 6 6 | 9 7 | 6 0 |
| F 29 | 17 55 | 15 59 | 3 50 | 12 27 | 2 49 | 22 24 | 0 7 | 0 7 | 3 10 | 12 42 | 0 55 | 22 20 | 0 20 | 15 36 | 0 41 | 21 23 | 0 33 | 17 32 | 5 53 | 22 41 | 22 48 | 6 3 | 9 6 | 6 0 |
| S 30 | 17 39 | 19 17 | 2 54 | 12 29 | 3 3 | 22 16 | 0 10 | 0 6 | 3 12 | 12 37 | 0 55 | 22 20 | 0 20 | 15 35 | 0 41 | 21 23 | 0 33 | 17 32 | 5 53 | 22 41 | 22 48 | 6 1 | 9 5 | 6 0 |
| S 31 | 17s22 | 21s32 | 1n50 | 12s35 | 3n15 | 22s 8 | 0s13 | 0n 5 | 3n13 | 12s32 | 0s55 | 22s19 | 0n20 | 15s34 | 0s41 | 21s22 | 0n33 | 17n32 | 5s53 | 22n40 | 22n49 | 5s58 | 9s 4 | 6n 0 |

Julian Day Number = 2329554.5, Delta T = 32.35 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'42, Lahiri = 19°11'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## FEBRUARY 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 45 36 | 12♒30'19 | 7♑ 4 | 16°R13 | 21♑40 | 7♎19 | 29♒44 | 14♑56 | 19♒48 | 20♑32 | 25°R42 | 14♋41 | 13♋17 | 26♓27 | 20♒21 | M 1 |
| T 2 | 8 49 33 | 13°31'08 | 19°42 | 15♒ 5 | 22°55 | 7°24 | 29°58 | 15° 3 | 19°52 | 20°34 | 25♊41 | 14°R41 | 13°14 | 26°34 | 20°25 | T 2 |
| W 3 | 8 53 29 | 14°31'55 | 2♒ 9 | 13°53 | 24°10 | 7°28 | 0♓13 | 15° 9 | 19°55 | 20°36 | 25°40 | 14°40 | 13°10 | 26°41 | 20°29 | W 3 |
| T 4 | 8 57 26 | 15°32'42 | 14°26 | 12°42 | 25°24 | 7°31 | 0°27 | 15°16 | 19°59 | 20°38 | 25°40 | 14°37 | 13° 7 | 26°47 | 20°33 | T 4 |
| F 5 | 9 1 23 | 16°33'27 | 26°34 | 11°32 | 26°39 | 7°33 | 0°41 | 15°22 | 20° 2 | 20°40 | 25°39 | 14°32 | 13° 4 | 26°54 | 20°38 | F 5 |
| S 6 | 9 5 19 | 17°34'11 | 8♓36 | 10°24 | 27°54 | 7°35 | 0°55 | 15°29 | 20° 5 | 20°42 | 25°38 | 14°27 | 13° 1 | 27° 1 | 20°42 | S 6 |
| S 7 | 9 9 16 | 18°34'53 | 20°32 | 9°22 | 29° 9 | 7°37 | 1°10 | 15°35 | 20° 9 | 20°44 | 25°37 | 14°20 | 12°58 | 27° 7 | 20°46 | S 7 |
| M 8 | 9 13 12 | 19°35'33 | 2♈24 | 8°25 | 0♒24 | 7°R37 | 1°24 | 15°41 | 20°12 | 20°47 | 25°37 | 14°13 | 12°54 | 27°14 | 20°51 | M 8 |
| T 9 | 9 17 9 | 20°36'12 | 14°15 | 7°35 | 1°39 | 7°37 | 1°38 | 15°48 | 20°16 | 20°49 | 25°36 | 14° 8 | 12°51 | 27°21 | 20°55 | T 9 |
| W10 | 9 21 5 | 21°36'49 | 26° 8 | 6°53 | 2°53 | 7°36 | 1°53 | 15°54 | 20°19 | 20°51 | 25°36 | 14° 3 | 12°48 | 27°28 | 20°59 | W10 |
| T 11 | 9 25 2 | 22°37'25 | 8♉ 7 | 6°18 | 4° 8 | 7°34 | 2° 7 | 16° 0 | 20°23 | 20°53 | 25°35 | 14° 0 | 12°45 | 27°34 | 21° 4 | T 11 |
| F 12 | 9 28 58 | 23°37'59 | 20°17 | 5°51 | 5°23 | 7°31 | 2°22 | 16° 6 | 20°26 | 20°55 | 25°34 | 13°D59 | 12°42 | 27°41 | 21° 8 | F 12 |
| S 13 | 9 32 55 | 24°38'31 | 2♊41 | 5°31 | 6°38 | 7°28 | 2°36 | 16°12 | 20°30 | 20°57 | 25°34 | 13°59 | 12°39 | 27°48 | 21°12 | S 13 |
| S 14 | 9 36 52 | 25°39'01 | 15°26 | 5°19 | 7°53 | 7°24 | 2°50 | 16°18 | 20°33 | 20°59 | 25°33 | 14° 0 | 12°35 | 27°55 | 21°17 | S 14 |
| M15 | 9 40 48 | 26°39'29 | 28°34 | 5°D15 | 9° 7 | 7°19 | 3° 5 | 16°24 | 20°37 | 21° 1 | 25°33 | 14° 2 | 12°32 | 28° 1 | 21°21 | M15 |
| T 16 | 9 44 45 | 27°39'56 | 12♋10 | 5°17 | 10°22 | 7°13 | 3°19 | 16°30 | 20°40 | 21° 2 | 25°32 | 14°R 2 | 12°29 | 28° 8 | 21°25 | T 16 |
| W17 | 9 48 41 | 28°40'20 | 26°14 | 5°26 | 11°37 | 7° 7 | 3°34 | 16°36 | 20°44 | 21° 4 | 25°32 | 14° 2 | 12°26 | 28°15 | 21°29 | W17 |
| T 18 | 9 52 38 | 29°40'43 | 10♌45 | 5°41 | 12°52 | 7° 0 | 3°48 | 16°42 | 20°47 | 21° 6 | 25°31 | 13°59 | 12°23 | 28°21 | 21°34 | T 18 |
| F 19 | 9 56 34 | 0♓41'04 | 25°38 | 6° 1 | 14° 6 | 6°52 | 4° 3 | 16°47 | 20°50 | 21° 8 | 25°31 | 13°54 | 12°19 | 28°28 | 21°38 | F 19 |
| S 20 | 10 0 31 | 1°41'23 | 10♍46 | 6°28 | 15°21 | 6°43 | 4°17 | 16°53 | 20°54 | 21°10 | 25°31 | 13°48 | 12°16 | 28°35 | 21°42 | S 20 |
| S 21 | 10 4 27 | 2°41'41 | 25°58 | 6°59 | 16°36 | 6°33 | 4°32 | 16°59 | 20°57 | 21°12 | 25°30 | 13°40 | 12°13 | 28°42 | 21°47 | S 21 |
| M22 | 10 8 24 | 3°41'56 | 11♎ 4 | 7°34 | 17°51 | 6°23 | 4°46 | 17° 4 | 21° 1 | 21°14 | 25°30 | 13°32 | 12°10 | 28°48 | 21°51 | M22 |
| T 23 | 10 12 20 | 4°42'10 | 25°54 | 8°14 | 19° 5 | 6°12 | 5° 1 | 17°10 | 21° 4 | 21°15 | 25°29 | 13°26 | 12° 7 | 28°55 | 21°55 | T 23 |
| W24 | 10 16 17 | 5°42'23 | 10♏23 | 8°58 | 20°20 | 6° 0 | 5°15 | 17°15 | 21° 8 | 21°17 | 25°29 | 13°21 | 12° 4 | 29° 2 | 21°59 | W24 |
| T 25 | 10 20 14 | 6°42'34 | 24°26 | 9°46 | 21°35 | 5°48 | 5°30 | 17°21 | 21°11 | 21°19 | 25°29 | 13°18 | 12° 0 | 29° 8 | 22° 3 | T 25 |
| F 26 | 10 24 10 | 7°42'44 | 8♐ 3 | 10°37 | 22°49 | 5°34 | 5°44 | 17°26 | 21°14 | 21°21 | 25°29 | 13°D18 | 11°57 | 29°15 | 22° 8 | F 26 |
| S 27 | 10 28 7 | 8°42'52 | 21°17 | 11°31 | 24° 4 | 5°20 | 5°59 | 17°32 | 21°18 | 21°22 | 25°28 | 13°18 | 11°54 | 29°22 | 22°12 | S 27 |
| S 28 | 10 32 3 | 9♓42'59 | 4♑10 | 12♒29 | 25♒19 | 5♎ 5 | 6♓13 | 17♑37 | 21♒21 | 21♑24 | 25♊28 | 13♋19 | 11♋51 | 29♓29 | 22♒16 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s 5 | 22s36 | 0n42 | 12s44 | 3n25 | 21s59 | 0s15 | 0n 4 | 3n14 | 12s27 | 0s55 | 22s18 | 0n20 | 15s33 | 0s41 | 21s22 | 0n33 | 17n32 | 5s53 | 22n40 | 22n49 | 5s56 | 9s 2 | 6n 0 |
| T 2 | 16 48 | 22 29 | 0s27 | 12 57 | 3 33 | 21 49 | 0 18 | 0 3 | 3 15 | 12 22 | 0 55 | 22 18 | 0 20 | 15 32 | 0 41 | 21 22 | 0 33 | 17 32 | 5 53 | 22 40 | 22 49 | 5 53 | 9 1 | 6 0 |
| W 3 | 16 30 | 21 15 | 1 34 | 13 12 | 3 39 | 21 39 | 0 20 | 0 3 | 3 16 | 12 17 | 0 55 | 22 17 | 0 20 | 15 31 | 0 41 | 21 21 | 0 33 | 17 32 | 5 53 | 22 40 | 22 50 | 5 51 | 9 0 | 6 0 |
| T 4 | 16 12 | 19 1 | 2 36 | 13 29 | 3 42 | 21 28 | 0 23 | 0 2 | 3 18 | 12 12 | 0 55 | 22 16 | 0 20 | 15 30 | 0 41 | 21 21 | 0 33 | 17 32 | 5 52 | 22 41 | 22 50 | 5 48 | 8 59 | 5 59 |
| F 5 | 15 54 | 15 57 | 3 29 | 13 48 | 3 42 | 21 16 | 0 25 | 0 2 | 3 19 | 12 7 | 0 55 | 22 16 | 0 20 | 15 29 | 0 41 | 21 21 | 0 33 | 17 33 | 5 52 | 22 41 | 22 50 | 5 46 | 8 57 | 5 59 |
| S 6 | 15 36 | 12 15 | 4 12 | 14 7 | 3 41 | 21 4 | 0 28 | 0 3 | 3 20 | 12 2 | 0 55 | 22 15 | 0 20 | 15 27 | 0 41 | 21 21 | 0 33 | 17 33 | 5 52 | 22 42 | 22 51 | 5 44 | 8 56 | 5 59 |
| S 7 | 15 17 | 8 7 | 4 44 | 14 27 | 3 37 | 20 51 | 0 30 | 0 3 | 3 21 | 11 57 | 0 56 | 22 14 | 0 20 | 15 26 | 0 41 | 21 20 | 0 33 | 17 33 | 5 52 | 22 43 | 22 51 | 5 41 | 8 55 | 5 59 |
| M 8 | 14 58 | 3 42 | 5 4 | 14 47 | 3 31 | 20 38 | 0 32 | 0 4 | 3 22 | 11 52 | 0 56 | 22 14 | 0 20 | 15 25 | 0 41 | 21 20 | 0 33 | 17 33 | 5 52 | 22 43 | 22 51 | 5 39 | 8 53 | 5 59 |
| T 9 | 14 39 | 0n51 | 5 11 | 15 7 | 3 24 | 20 24 | 0 35 | 0 5 | 3 23 | 11 46 | 0 56 | 22 13 | 0 20 | 15 24 | 0 41 | 21 20 | 0 33 | 17 33 | 5 52 | 22 44 | 22 52 | 5 36 | 8 52 | 5 59 |
| W10 | 14 20 | 5 23 | 5 4 | 15 26 | 3 15 | 20 9 | 0 37 | 0 7 | 3 25 | 11 41 | 0 56 | 22 12 | 0 20 | 15 23 | 0 41 | 21 19 | 0 33 | 17 33 | 5 51 | 22 44 | 22 52 | 5 34 | 8 51 | 5 59 |
| T 11 | 14 0 | 9 46 | 4 44 | 15 45 | 3 5 | 19 54 | 0 39 | 0 9 | 3 26 | 11 36 | 0 56 | 22 12 | 0 20 | 15 22 | 0 41 | 21 19 | 0 33 | 17 33 | 5 51 | 22 45 | 22 52 | 5 31 | 8 50 | 5 59 |
| F 12 | 13 40 | 13 49 | 4 11 | 16 2 | 2 54 | 19 38 | 0 41 | 0 11 | 3 27 | 11 31 | 0 56 | 22 11 | 0 20 | 15 21 | 0 41 | 21 19 | 0 33 | 17 34 | 5 51 | 22 45 | 22 53 | 5 29 | 8 48 | 5 59 |
| S 13 | 13 20 | 17 23 | 3 25 | 16 18 | 2 42 | 19 21 | 0 44 | 0 13 | 3 28 | 11 26 | 0 56 | 22 10 | 0 20 | 15 20 | 0 41 | 21 18 | 0 33 | 17 34 | 5 51 | 22 45 | 22 53 | 5 26 | 8 47 | 5 59 |
| S 14 | 13 0 | 20 13 | 2 29 | 16 33 | 2 30 | 19 4 | 0 46 | 0 15 | 3 29 | 11 21 | 0 56 | 22 10 | 0 20 | 15 19 | 0 41 | 21 18 | 0 33 | 17 34 | 5 51 | 22 45 | 22 53 | 5 24 | 8 46 | 5 59 |
| M15 | 12 39 | 22 6 | 1 23 | 16 46 | 2 18 | 18 47 | 0 48 | 0 18 | 3 30 | 11 16 | 0 56 | 22 9 | 0 19 | 15 18 | 0 41 | 21 18 | 0 33 | 17 34 | 5 51 | 22 45 | 22 53 | 5 21 | 8 44 | 5 59 |
| T 16 | 12 18 | 22 45 | 0 10 | 16 58 | 2 5 | 18 28 | 0 50 | 0 21 | 3 31 | 11 10 | 0 56 | 22 8 | 0 19 | 15 16 | 0 41 | 21 18 | 0 33 | 17 34 | 5 50 | 22 44 | 22 54 | 5 19 | 8 43 | 5 59 |
| W17 | 11 57 | 22 1 | 1n 6 | 17 8 | 1 52 | 18 10 | 0 52 | 0 25 | 3 32 | 11 5 | 0 56 | 22 8 | 0 19 | 15 15 | 0 41 | 21 17 | 0 33 | 17 34 | 5 50 | 22 45 | 22 54 | 5 16 | 8 42 | 5 59 |
| T 18 | 11 36 | 19 48 | 2 19 | 17 17 | 1 39 | 17 51 | 0 54 | 0 28 | 3 33 | 11 0 | 0 56 | 22 7 | 0 19 | 15 14 | 0 41 | 21 17 | 0 33 | 17 34 | 5 50 | 22 45 | 22 54 | 5 14 | 8 40 | 5 59 |
| F 19 | 11 15 | 16 13 | 3 25 | 17 24 | 1 27 | 17 31 | 0 56 | 0 32 | 3 33 | 10 55 | 0 56 | 22 6 | 0 19 | 15 13 | 0 41 | 21 17 | 0 33 | 17 35 | 5 50 | 22 45 | 22 55 | 5 12 | 8 39 | 5 59 |
| S 20 | 10 54 | 11 31 | 4 18 | 17 30 | 1 14 | 17 11 | 0 58 | 0 36 | 3 34 | 10 49 | 0 56 | 22 6 | 0 19 | 15 12 | 0 41 | 21 16 | 0 33 | 17 35 | 5 50 | 22 46 | 22 55 | 5 9 | 8 37 | 5 59 |
| S 21 | 10 32 | 6 5 | 4 52 | 17 34 | 1 2 | 16 50 | 1 0 | 0 41 | 3 35 | 10 44 | 0 56 | 22 5 | 0 19 | 15 11 | 0 41 | 21 16 | 0 33 | 17 35 | 5 50 | 22 47 | 22 55 | 5 7 | 8 36 | 5 59 |
| M22 | 10 10 | 0 19 | 5 7 | 17 37 | 0 49 | 16 29 | 1 1 | 0 46 | 3 36 | 10 39 | 0 56 | 22 4 | 0 19 | 15 10 | 0 41 | 21 16 | 0 33 | 17 35 | 5 49 | 22 48 | 22 55 | 5 4 | 8 35 | 5 59 |
| T 23 | 9 48 | 5s22 | 5 0 | 17 38 | 0 37 | 16 7 | 1 3 | 0 51 | 3 36 | 10 34 | 0 56 | 22 4 | 0 19 | 15 9 | 0 41 | 21 16 | 0 33 | 17 35 | 5 49 | 22 48 | 22 56 | 5 2 | 8 33 | 5 59 |
| W24 | 9 26 | 10 38 | 4 34 | 17 38 | 0 26 | 15 45 | 1 5 | 0 56 | 3 37 | 10 28 | 0 56 | 22 3 | 0 19 | 15 8 | 0 41 | 21 15 | 0 33 | 17 35 | 5 49 | 22 49 | 22 56 | 4 59 | 8 32 | 5 59 |
| T 25 | 9 4 | 15 10 | 3 52 | 17 36 | 0 15 | 15 23 | 1 6 | 1 1 | 3 37 | 10 23 | 0 56 | 22 2 | 0 19 | 15 7 | 0 41 | 21 15 | 0 33 | 17 36 | 5 49 | 22 49 | 22 56 | 4 57 | 8 31 | 5 59 |
| F 26 | 8 42 | 18 46 | 2 58 | 17 33 | 0 4 | 15 0 | 1 8 | 1 7 | 3 38 | 10 18 | 0 56 | 22 2 | 0 19 | 15 6 | 0 41 | 21 15 | 0 33 | 17 36 | 5 49 | 22 49 | 22 57 | 4 54 | 8 29 | 5 59 |
| S 27 | 8 19 | 21 17 | 1 55 | 17 28 | 0s 7 | 14 37 | 1 9 | 1 13 | 3 38 | 10 12 | 0 56 | 22 1 | 0 19 | 15 5 | 0 41 | 21 14 | 0 33 | 17 36 | 5 49 | 22 49 | 22 57 | 4 52 | 8 28 | 5 59 |
| S 28 | 7s56 | 22s36 | 0n49 | 17s22 | 0s17 | 14s13 | 1s11 | 1n19 | 3n39 | 10s 7 | 0s56 | 22s 1 | 0n19 | 15s 3 | 0s41 | 21s14 | 0n33 | 17n36 | 5s48 | 22n49 | 22n57 | 4s49 | 8s27 | 5n59 |

Julian Day Number = 2329585.5, Delta T = 32.29 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'46, Lahiri = 19°11'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## MARCH 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 36 0 | 10♓43'04 | 16♉46 | 13♒29 | 26♒34 | 4°R50 | 6♓28 | 17♉42 | 21♒24 | 21♉26 | 25°R28 | 13°R19 | 11♋48 | 29♓35 | 22♒20 | M 1 |
| T 2 | 10 39 56 | 11°43'08 | 29° 8 | 14°31 | 27°48 | 4♎34 | 6°42 | 17°47 | 21°28 | 21°27 | 25♊28 | 13♋18 | 11°45 | 29°42 | 22°24 | T 2 |
| W 3 | 10 43 53 | 12°43'09 | 11♒20 | 15°36 | 29° 3 | 4°17 | 6°57 | 17°52 | 21°31 | 21°29 | 25°28 | 13°14 | 11°41 | 29°49 | 22°28 | W 3 |
| T 4 | 10 47 49 | 13°43'09 | 23°24 | 16°43 | 0♓18 | 3°59 | 7°11 | 17°57 | 21°34 | 21°30 | 25°27 | 13° 8 | 11°38 | 29°55 | 22°32 | T 4 |
| F 5 | 10 51 46 | 14°43'07 | 5♓23 | 17°53 | 1°32 | 3°41 | 7°25 | 18° 2 | 21°38 | 21°32 | 25°27 | 12°58 | 11°35 | 0♈ 2 | 22°37 | F 5 |
| S 6 | 10 55 43 | 15°43'03 | 17°18 | 19° 4 | 2°47 | 3°22 | 7°40 | 18° 7 | 21°41 | 21°34 | 25°27 | 12°47 | 11°32 | 0° 9 | 22°41 | S 6 |
| S 7 | 10 59 39 | 16°42'57 | 29°11 | 20°18 | 4° 2 | 3° 3 | 7°54 | 18°12 | 21°44 | 21°35 | 25°27 | 12°35 | 11°29 | 0°16 | 22°45 | S 7 |
| M 8 | 11 3 36 | 17°42'49 | 11♈ 3 | 21°33 | 5°16 | 2°43 | 8° 9 | 18°16 | 21°47 | 21°37 | 25°27 | 12°22 | 11°25 | 0°22 | 22°49 | M 8 |
| T 9 | 11 7 32 | 18°42'39 | 22°55 | 22°50 | 6°31 | 2°23 | 8°23 | 18°21 | 21°50 | 21°38 | 25°D27 | 12°10 | 11°22 | 0°29 | 22°53 | T 9 |
| W10 | 11 11 29 | 19°42'27 | 4♉50 | 24° 9 | 7°46 | 2° 2 | 8°37 | 18°26 | 21°54 | 21°39 | 25°27 | 12° 0 | 11°19 | 0°36 | 22°57 | W10 |
| T 11 | 11 15 25 | 20°42'13 | 16°50 | 25°29 | 9° 0 | 1°41 | 8°52 | 18°30 | 21°57 | 21°41 | 25°27 | 11°52 | 11°16 | 0°42 | 23° 1 | T 11 |
| F 12 | 11 19 22 | 21°41'56 | 28°59 | 26°51 | 10°15 | 1°19 | 9° 6 | 18°34 | 22° 0 | 21°42 | 25°27 | 11°47 | 11°13 | 0°49 | 23° 4 | F 12 |
| S 13 | 11 23 18 | 22°41'38 | 11♊21 | 28°15 | 11°29 | 0°57 | 9°20 | 18°39 | 22° 3 | 21°43 | 25°27 | 11°45 | 11°10 | 0°56 | 23° 8 | S 13 |
| S 14 | 11 27 15 | 23°41'17 | 24° 0 | 29°40 | 12°44 | 0°35 | 9°35 | 18°43 | 22° 6 | 21°45 | 25°27 | 11°D44 | 11° 6 | 1° 3 | 23°12 | S 14 |
| M15 | 11 31 12 | 24°40'53 | 7♋ 2 | 1♓ 6 | 13°59 | 0°12 | 9°49 | 18°47 | 22° 9 | 21°46 | 25°27 | 11°R44 | 11° 3 | 1° 9 | 23°16 | M15 |
| T 16 | 11 35 8 | 25°40'28 | 20°29 | 2°34 | 15°13 | 29♍49 | 10° 3 | 18°51 | 22°12 | 21°47 | 25°28 | 11°44 | 11° 0 | 1°16 | 23°20 | T 16 |
| W17 | 11 39 5 | 26°40'00 | 4♌24 | 4° 4 | 16°28 | 29°26 | 10°17 | 18°55 | 22°15 | 21°49 | 25°28 | 11°42 | 10°57 | 1°23 | 23°24 | W17 |
| T 18 | 11 43 1 | 27°39'29 | 18°49 | 5°34 | 17°42 | 29° 3 | 10°32 | 18°59 | 22°18 | 21°50 | 25°28 | 11°38 | 10°54 | 1°30 | 23°27 | T 18 |
| F 19 | 11 46 58 | 28°38'57 | 3♍40 | 7° 7 | 18°57 | 28°40 | 10°46 | 19° 3 | 22°21 | 21°51 | 25°28 | 11°31 | 10°51 | 1°36 | 23°31 | F 19 |
| S 20 | 11 50 54 | 29°38'22 | 18°51 | 8°40 | 20°11 | 28°16 | 11° 0 | 19° 7 | 22°24 | 21°52 | 25°28 | 11°22 | 10°47 | 1°43 | 23°35 | S 20 |
| S 21 | 11 54 51 | 0♈37'45 | 4♎13 | 10°15 | 21°26 | 27°53 | 11°14 | 19°11 | 22°27 | 21°53 | 25°29 | 11°11 | 10°44 | 1°50 | 23°38 | S 21 |
| M22 | 11 58 47 | 1°37'06 | 19°32 | 11°51 | 22°40 | 27°30 | 11°28 | 19°14 | 22°30 | 21°54 | 25°29 | 11° 0 | 10°41 | 1°56 | 23°42 | M22 |
| T 23 | 12 2 44 | 2°36'25 | 4♏39 | 13°29 | 23°55 | 27° 7 | 11°42 | 19°18 | 22°33 | 21°55 | 25°29 | 10°51 | 10°38 | 2° 3 | 23°46 | T 23 |
| W24 | 12 6 41 | 3°35'42 | 19°23 | 15° 8 | 25° 9 | 26°43 | 11°56 | 19°21 | 22°36 | 21°56 | 25°30 | 10°43 | 10°35 | 2°10 | 23°49 | W24 |
| T 25 | 12 10 37 | 4°34'57 | 3♐39 | 16°48 | 26°23 | 26°20 | 12°10 | 19°25 | 22°38 | 21°57 | 25°30 | 10°38 | 10°31 | 2°17 | 23°53 | T 25 |
| F 26 | 12 14 34 | 5°34'11 | 17°26 | 18°30 | 27°38 | 25°58 | 12°24 | 19°28 | 22°41 | 21°58 | 25°30 | 10°35 | 10°28 | 2°23 | 23°56 | F 26 |
| S 27 | 12 18 30 | 6°33'23 | 0♑44 | 20°13 | 28°52 | 25°35 | 12°38 | 19°31 | 22°44 | 21°59 | 25°31 | 10°34 | 10°25 | 2°30 | 24° 0 | S 27 |
| S 28 | 12 22 27 | 7°32'33 | 13°37 | 21°57 | 0♈ 7 | 25°13 | 12°52 | 19°34 | 22°47 | 22° 0 | 25°31 | 10°34 | 10°22 | 2°37 | 24° 3 | S 28 |
| M29 | 12 26 23 | 8°31'42 | 26°10 | 23°43 | 1°21 | 24°51 | 13° 5 | 19°37 | 22°49 | 22° 1 | 25°32 | 10°34 | 10°19 | 2°43 | 24° 6 | M29 |
| T 30 | 12 30 20 | 9°30'48 | 8♒26 | 25°31 | 2°36 | 24°29 | 13°19 | 19°40 | 22°52 | 22° 2 | 25°32 | 10°31 | 10°16 | 2°50 | 24°10 | T 30 |
| W31 | 12 34 16 | 10♈29'53 | 20♒31 | 27♓20 | 3♈50 | 24♍ 8 | 13♓33 | 19♑43 | 22♒55 | 22♑ 3 | 25♊32 | 10♋27 | 10♋12 | 2♈57 | 24♒13 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 7s34 | 22s44 | 0s18 | 17s14 | 0s27 | 13s49 | 1s12 | 1n26 | 3n39 | 10s 2 | 0s56 | 22s 0 | 0n19 | 15s 2 | 0s41 | 21s14 | 0n33 | 17n36 | 5s48 | 22n49 | 22n57 | 4s47 | 8s25 | 5n59 | |
| T 2 | 7 11 | 21 44 | 1 24 | 17 5 | 0 37 | 13 24 | 1 14 | 1 32 | 3 39 | 9 57 | 0 57 | 21 59 | 0 19 | 15 1 | 0 41 | 21 14 | 0 33 | 17 36 | 5 48 | 22 49 | 22 58 | 4 44 | 8 24 | 6 0 | |
| W 3 | 6 48 | 19 43 | 2 24 | 16 55 | 0 46 | 13 0 | 1 15 | 1 39 | 3 39 | 9 51 | 0 57 | 21 59 | 0 19 | 15 0 | 0 41 | 21 13 | 0 33 | 17 37 | 5 48 | 22 49 | 22 58 | 4 42 | 8 22 | 6 0 | |
| T 4 | 6 25 | 16 50 | 3 17 | 16 43 | 0 54 | 12 34 | 1 16 | 1 46 | 3 39 | 9 46 | 0 57 | 21 58 | 0 19 | 14 59 | 0 41 | 21 13 | 0 33 | 17 37 | 5 48 | 22 50 | 22 58 | 4 39 | 8 21 | 6 0 | |
| F 5 | 6 2 | 13 17 | 4 0 | 16 30 | 1 3 | 12 9 | 1 17 | 1 53 | 3 39 | 9 41 | 0 57 | 21 58 | 0 19 | 14 58 | 0 41 | 21 13 | 0 33 | 17 37 | 5 47 | 22 51 | 22 59 | 4 37 | 8 20 | 6 0 | |
| S 6 | 5 38 | 9 13 | 4 33 | 16 15 | 1 10 | 11 43 | 1 18 | 2 1 | 3 39 | 9 35 | 0 57 | 21 57 | 0 19 | 14 57 | 0 41 | 21 13 | 0 33 | 17 37 | 5 47 | 22 52 | 22 59 | 4 34 | 8 18 | 6 0 | |
| S 7 | 5 15 | 4 49 | 4 54 | 15 59 | 1 18 | 11 17 | 1 19 | 2 8 | 3 39 | 9 30 | 0 57 | 21 56 | 0 18 | 14 56 | 0 41 | 21 12 | 0 33 | 17 37 | 5 47 | 22 53 | 22 59 | 4 31 | 8 17 | 6 0 | |
| M 8 | 4 52 | 0 15 | 5 2 | 15 41 | 1 25 | 10 50 | 1 20 | 2 16 | 3 39 | 9 25 | 0 57 | 21 56 | 0 18 | 14 55 | 0 41 | 21 12 | 0 33 | 17 38 | 5 47 | 22 54 | 22 59 | 4 29 | 8 15 | 6 0 | |
| T 9 | 4 28 | 4n20 | 4 57 | 15 22 | 1 32 | 10 24 | 1 21 | 2 24 | 3 39 | 9 19 | 0 57 | 21 55 | 0 18 | 14 54 | 0 41 | 21 12 | 0 33 | 17 38 | 5 47 | 22 55 | 23 0 | 4 26 | 8 14 | 6 0 | |
| W10 | 4 5 | 8 47 | 4 39 | 15 2 | 1 38 | 9 56 | 1 22 | 2 32 | 3 38 | 9 14 | 0 57 | 21 55 | 0 18 | 14 53 | 0 41 | 21 12 | 0 33 | 17 38 | 5 47 | 22 56 | 23 0 | 4 24 | 8 13 | 6 0 | |
| T 11 | 3 41 | 12 56 | 4 8 | 14 41 | 1 44 | 9 29 | 1 23 | 2 40 | 3 38 | 9 9 | 0 57 | 21 54 | 0 18 | 14 52 | 0 41 | 21 11 | 0 33 | 17 38 | 5 46 | 22 57 | 23 0 | 4 21 | 8 11 | 6 1 | |
| F 12 | 3 18 | 16 37 | 3 26 | 14 18 | 1 49 | 9 2 | 1 23 | 2 48 | 3 37 | 9 3 | 0 57 | 21 53 | 0 18 | 14 51 | 0 41 | 21 11 | 0 33 | 17 38 | 5 46 | 22 58 | 23 0 | 4 19 | 8 10 | 6 1 | |
| S 13 | 2 54 | 19 39 | 2 34 | 13 53 | 1 54 | 8 34 | 1 24 | 2 56 | 3 37 | 8 58 | 0 57 | 21 53 | 0 18 | 14 50 | 0 41 | 21 11 | 0 33 | 17 38 | 5 46 | 22 58 | 23 1 | 4 16 | 8 9 | 6 1 | |
| S 14 | 2 31 | 21 48 | 1 33 | 13 28 | 1 59 | 8 6 | 1 25 | 3 4 | 3 36 | 8 53 | 0 57 | 21 52 | 0 18 | 14 49 | 0 41 | 21 11 | 0 33 | 17 39 | 5 46 | 22 58 | 23 1 | 4 14 | 8 7 | 6 1 | |
| M15 | 2 7 | 22 53 | 0 25 | 13 1 | 2 3 | 7 38 | 1 25 | 3 12 | 3 35 | 8 47 | 0 58 | 21 52 | 0 18 | 14 48 | 0 41 | 21 11 | 0 33 | 17 39 | 5 46 | 22 58 | 23 1 | 4 11 | 8 6 | 6 1 | |
| T 16 | 1 43 | 22 41 | 0n46 | 12 33 | 2 7 | 7 9 | 1 26 | 3 21 | 3 34 | 8 42 | 0 58 | 21 51 | 0 18 | 14 47 | 0 41 | 21 10 | 0 33 | 17 39 | 5 45 | 22 58 | 23 2 | 4 9 | 8 4 | 6 1 | |
| W17 | 1 20 | 21 5 | 1 57 | 12 3 | 2 10 | 6 40 | 1 26 | 3 29 | 3 33 | 8 37 | 0 58 | 21 51 | 0 18 | 14 46 | 0 41 | 21 10 | 0 33 | 17 39 | 5 45 | 22 58 | 23 2 | 4 6 | 8 3 | 6 1 | |
| T 18 | 0 56 | 18 6 | 3 3 | 11 32 | 2 13 | 6 12 | 1 26 | 3 37 | 3 32 | 8 31 | 0 58 | 21 50 | 0 18 | 14 45 | 0 41 | 21 10 | 0 33 | 17 39 | 5 45 | 22 58 | 23 2 | 4 4 | 8 2 | 6 2 | |
| F 19 | 0 32 | 13 52 | 3 58 | 11 0 | 2 15 | 5 43 | 1 27 | 3 45 | 3 31 | 8 26 | 0 58 | 21 50 | 0 18 | 14 44 | 0 41 | 21 10 | 0 33 | 17 40 | 5 45 | 22 59 | 23 2 | 4 1 | 8 0 | 6 2 | |
| S 20 | 0 9 | 8 41 | 4 38 | 10 27 | 2 17 | 5 14 | 1 27 | 3 53 | 3 29 | 8 21 | 0 58 | 21 49 | 0 18 | 14 43 | 0 41 | 21 10 | 0 33 | 17 40 | 5 45 | 23 0 | 23 3 | 3 59 | 7 59 | 6 2 | |
| S 21 | 0n15 | 2 53 | 4 58 | 9 53 | 2 19 | 4 44 | 1 27 | 4 1 | 3 28 | 8 16 | 0 58 | 21 49 | 0 18 | 14 42 | 0 41 | 21 9 | 0 33 | 17 40 | 5 45 | 23 1 | 23 3 | 3 56 | 7 58 | 6 2 | |
| M22 | 0 39 | 3s 4 | 4 57 | 9 17 | 2 20 | 4 15 | 1 27 | 4 9 | 3 27 | 8 10 | 0 58 | 21 48 | 0 18 | 14 42 | 0 41 | 21 9 | 0 33 | 17 40 | 5 44 | 23 2 | 23 3 | 3 53 | 7 56 | 6 2 | |
| T 23 | 1 2 | 8 46 | 4 35 | 8 40 | 2 20 | 3 45 | 1 27 | 4 17 | 3 25 | 8 5 | 0 58 | 21 48 | 0 18 | 14 41 | 0 41 | 21 9 | 0 33 | 17 40 | 5 44 | 23 2 | 23 3 | 3 51 | 7 55 | 6 2 | |
| W24 | 1 26 | 13 50 | 3 55 | 8 2 | 2 20 | 3 16 | 1 27 | 4 25 | 3 23 | 8 0 | 0 58 | 21 48 | 0 18 | 14 40 | 0 42 | 21 9 | 0 33 | 17 41 | 5 44 | 23 3 | 23 4 | 3 48 | 7 54 | 6 3 | |
| T 25 | 1 49 | 17 57 | 3 2 | 7 22 | 2 20 | 2 46 | 1 27 | 4 32 | 3 22 | 7 55 | 0 58 | 21 47 | 0 18 | 14 39 | 0 42 | 21 9 | 0 33 | 17 41 | 5 44 | 23 3 | 23 4 | 3 46 | 7 52 | 6 3 | |
| F 26 | 2 13 | 20 55 | 1 59 | 6 41 | 2 19 | 2 16 | 1 27 | 4 40 | 3 20 | 7 49 | 0 59 | 21 47 | 0 18 | 14 38 | 0 42 | 21 9 | 0 33 | 17 41 | 5 44 | 23 4 | 23 4 | 3 43 | 7 51 | 6 3 | |
| S 27 | 2 36 | 22 37 | 0 52 | 6 0 | 2 18 | 1 46 | 1 26 | 4 47 | 3 18 | 7 44 | 0 59 | 21 46 | 0 17 | 14 37 | 0 42 | 21 8 | 0 33 | 17 41 | 5 43 | 23 4 | 23 4 | 3 41 | 7 50 | 6 3 | |
| S 28 | 3 0 | 23 3 | 0s16 | 5 17 | 2 16 | 1 16 | 1 26 | 4 54 | 3 16 | 7 39 | 0 59 | 21 46 | 0 17 | 14 36 | 0 42 | 21 8 | 0 33 | 17 41 | 5 43 | 23 4 | 23 5 | 3 38 | 7 48 | 6 3 | |
| M29 | 3 23 | 22 17 | 1 21 | 4 32 | 2 14 | 0 46 | 1 26 | 5 1 | 3 14 | 7 34 | 0 59 | 21 45 | 0 17 | 14 35 | 0 42 | 21 8 | 0 33 | 17 42 | 5 43 | 23 4 | 23 5 | 3 36 | 7 47 | 6 4 | |
| T 30 | 3 47 | 20 28 | 2 21 | 3 47 | 2 11 | 0 16 | 1 25 | 5 8 | 3 12 | 7 29 | 0 59 | 21 45 | 0 17 | 14 35 | 0 42 | 21 8 | 0 33 | 17 42 | 5 43 | 23 4 | 23 5 | 3 33 | 7 46 | 6 4 | |
| W31 | 4n10 | 17s44 | 3s14 | 3s 1 | 2s 7 | 0n14 | 1s25 | 5n14 | 3n10 | 7s23 | 0s59 | 21s45 | 0n17 | 14s34 | 0s42 | 21s 8 | 0n33 | 17n42 | 5s43 | 23n 4 | 23n 5 | 3s30 | 7s45 | 6n 4 | |

Julian Day Number = 2329613.5, Delta T = 32.24 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'50, Lahiri = 19°11'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## APRIL 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 38 13 | 11♈28'55 | 2♓28 | 29♓10 | 5♈ 4 | 23°R47 | 13♓46 | 19♑46 | 22♒57 | 22♑ 3 | 25♊33 | 10°R19 | 10♋ 9 | 3♈ 4 | 24♒16 | T 1 |
| F 2 | 12 42 10 | 12°27'56 | 14°21 | 1♈ 1 | 6°19 | 23♍27 | 14° 0 | 19°49 | 23° 0 | 22° 4 | 25°33 | 10♋ 9 | 10° 6 | 3°10 | 24°19 | F 2 |
| S 3 | 12 46 6 | 13°26'55 | 26°13 | 2°55 | 7°33 | 23° 7 | 14°14 | 19°51 | 23° 2 | 22° 5 | 25°34 | 9°56 | 10° 3 | 3°17 | 24°23 | S 3 |
| S 4 | 12 50 3 | 14°25'52 | 8♈ 4 | 4°49 | 8°47 | 22°48 | 14°27 | 19°54 | 23° 5 | 22° 5 | 25°35 | 9°42 | 10° 0 | 3°24 | 24°26 | S 4 |
| M 5 | 12 53 59 | 15°24'47 | 19°58 | 6°45 | 10° 2 | 22°29 | 14°41 | 19°56 | 23° 7 | 22° 6 | 25°35 | 9°27 | 9°56 | 3°31 | 24°29 | M 5 |
| T 6 | 12 57 56 | 16°23'40 | 1♉54 | 8°43 | 11°16 | 22°11 | 14°54 | 19°58 | 23°10 | 22° 7 | 25°36 | 9°14 | 9°53 | 3°37 | 24°32 | T 6 |
| W 7 | 13 1 52 | 17°22'31 | 13°55 | 10°41 | 12°30 | 21°54 | 15° 7 | 20° 1 | 23°12 | 22° 7 | 25°36 | 9° 2 | 9°50 | 3°44 | 24°35 | W 7 |
| T 8 | 13 5 49 | 18°21'19 | 26° 2 | 12°42 | 13°44 | 21°37 | 15°21 | 20° 3 | 23°14 | 22° 8 | 25°37 | 8°53 | 9°47 | 3°51 | 24°38 | T 8 |
| F 9 | 13 9 45 | 19°20'06 | 8♊17 | 14°43 | 14°59 | 21°21 | 15°34 | 20° 5 | 23°17 | 22° 8 | 25°38 | 8°47 | 9°44 | 3°57 | 24°41 | F 9 |
| S 10 | 13 13 42 | 20°18'51 | 20°43 | 16°46 | 16°13 | 21° 5 | 15°47 | 20° 7 | 23°19 | 22° 9 | 25°38 | 8°44 | 9°41 | 4° 4 | 24°43 | S 10 |
| S 11 | 13 17 38 | 21°17'33 | 3♋24 | 18°50 | 17°27 | 20°51 | 16° 0 | 20° 8 | 23°21 | 22° 9 | 25°39 | 8°D42 | 9°37 | 4°11 | 24°46 | S 11 |
| M12 | 13 21 35 | 22°16'13 | 16°23 | 20°55 | 18°41 | 20°37 | 16°13 | 20°10 | 23°23 | 22°10 | 25°40 | 8°R42 | 9°34 | 4°18 | 24°49 | M12 |
| T 13 | 13 25 32 | 23°14'51 | 29°44 | 23° 1 | 19°56 | 20°23 | 16°26 | 20°12 | 23°25 | 22°10 | 25°41 | 8°42 | 9°31 | 4°24 | 24°52 | T 13 |
| W14 | 13 29 28 | 24°13'26 | 13♌30 | 25° 8 | 21°10 | 20°11 | 16°39 | 20°13 | 23°27 | 22°10 | 25°41 | 8°41 | 9°28 | 4°31 | 24°54 | W14 |
| T 15 | 13 33 25 | 25°11'59 | 27°42 | 27°15 | 22°24 | 19°59 | 16°52 | 20°15 | 23°30 | 22°11 | 25°42 | 8°38 | 9°25 | 4°38 | 24°57 | T 15 |
| F 16 | 13 37 21 | 26°10'30 | 12♍20 | 29°23 | 23°38 | 19°48 | 17° 5 | 20°16 | 23°32 | 22°11 | 25°43 | 8°32 | 9°22 | 4°44 | 25° 0 | F 16 |
| S 17 | 13 41 18 | 27° 8'59 | 27°18 | 1♉31 | 24°52 | 19°38 | 17°18 | 20°18 | 23°34 | 22°11 | 25°44 | 8°24 | 9°18 | 4°51 | 25° 2 | S 17 |
| S 18 | 13 45 14 | 28° 7'25 | 12♎30 | 3°38 | 26° 6 | 19°29 | 17°31 | 20°19 | 23°35 | 22°11 | 25°45 | 8°14 | 9°15 | 4°58 | 25° 5 | S 18 |
| M19 | 13 49 11 | 29° 5'50 | 27°44 | 5°46 | 27°20 | 19°21 | 17°43 | 20°20 | 23°37 | 22°12 | 25°45 | 8° 4 | 9°12 | 5° 5 | 25° 7 | M19 |
| T 20 | 13 53 7 | 0♉ 4'13 | 12♏51 | 7°52 | 28°35 | 19°13 | 17°56 | 20°21 | 23°39 | 22°12 | 25°46 | 7°54 | 9° 9 | 5°11 | 25° 9 | T 20 |
| W21 | 13 57 4 | 1° 2'34 | 27°39 | 9°58 | 29°49 | 19° 6 | 18° 8 | 20°22 | 23°41 | 22°12 | 25°47 | 7°47 | 9° 6 | 5°18 | 25°12 | W21 |
| T 22 | 14 1 1 | 2° 0'53 | 12♐ 3 | 12° 2 | 1♉ 3 | 19° 0 | 18°21 | 20°22 | 23°43 | 22°12 | 25°48 | 7°42 | 9° 2 | 5°25 | 25°14 | T 22 |
| F 23 | 14 4 57 | 2°59'11 | 25°57 | 14° 5 | 2°17 | 18°54 | 18°33 | 20°23 | 23°45 | 22°12 | 25°49 | 7°40 | 8°59 | 5°32 | 25°16 | F 23 |
| S 24 | 14 8 54 | 3°57'28 | 9♑23 | 16° 6 | 3°31 | 18°50 | 18°45 | 20°24 | 23°46 | 22°R12 | 25°50 | 7°D39 | 8°56 | 5°38 | 25°18 | S 24 |
| S 25 | 14 12 50 | 4°55'42 | 22°22 | 18° 5 | 4°45 | 18°46 | 18°57 | 20°24 | 23°48 | 22°12 | 25°51 | 7°40 | 8°53 | 5°45 | 25°20 | S 25 |
| M26 | 14 16 47 | 5°53'56 | 4♒58 | 20° 1 | 5°59 | 18°43 | 19° 9 | 20°25 | 23°49 | 22°12 | 25°52 | 7°R40 | 8°50 | 5°52 | 25°22 | M26 |
| T 27 | 14 20 43 | 6°52'07 | 17°16 | 21°54 | 7°13 | 18°41 | 19°22 | 20°25 | 23°51 | 22°12 | 25°53 | 7°40 | 8°47 | 5°58 | 25°24 | T 27 |
| W28 | 14 24 40 | 7°50'17 | 29°20 | 23°45 | 8°27 | 18°39 | 19°33 | 20°25 | 23°53 | 22°12 | 25°54 | 7°37 | 8°43 | 6° 5 | 25°26 | W28 |
| T 29 | 14 28 36 | 8°48'26 | 11♓16 | 25°32 | 9°41 | 18°D38 | 19°45 | 20°R25 | 23°54 | 22°12 | 25°55 | 7°32 | 8°40 | 6°12 | 25°28 | T 29 |
| F 30 | 14 32 33 | 9♉46'33 | 23♓ 8 | 27♉16 | 10♉55 | 18♍38 | 19♓57 | 20♑25 | 23♒55 | 22♑11 | 25♊56 | 7♋25 | 8♋37 | 6♈19 | 25♒30 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n33 | 14s18 | 3s57 | 2s13 | 2s 4 | 0n44 | 1s24 | 5n21 | 3n 8 | 7s18 | 0s59 | 21s44 | 0n17 | 14s33 | 0s42 | 21s 8 | 0n33 | 17n42 | 5s43 | 23n 5 | 23n 6 | 3s28 | 7s43 | 6n 4 |
| F 2 | 4 56 | 10 19 | 4 30 | 1 25 | 1 59 | 1 14 | 1 24 | 5 27 | 3 5 | 7 13 | 0 59 | 21 44 | 0 17 | 14 32 | 0 42 | 21 8 | 0 33 | 17 42 | 5 42 | 23 6 | 23 6 | 3 25 | 7 42 | 6 5 |
| S 3 | 5 19 | 5 57 | 4 51 | 0 35 | 1 54 | 1 44 | 1 23 | 5 32 | 3 3 | 7 8 | 1 0 | 21 44 | 0 17 | 14 31 | 0 42 | 21 8 | 0 33 | 17 42 | 5 42 | 23 7 | 23 6 | 3 23 | 7 41 | 6 5 |
| S 4 | 5 42 | 1 22 | 4 59 | 0n15 | 1 49 | 2 14 | 1 22 | 5 38 | 3 1 | 7 3 | 1 0 | 21 43 | 0 17 | 14 30 | 0 42 | 21 7 | 0 33 | 17 43 | 5 42 | 23 8 | 23 6 | 3 20 | 7 40 | 6 5 |
| M 5 | 6 5 | 3n16 | 4 54 | 1 6 | 1 43 | 2 44 | 1 21 | 5 43 | 2 58 | 6 58 | 1 0 | 21 43 | 0 17 | 14 30 | 0 42 | 21 7 | 0 33 | 17 43 | 5 42 | 23 9 | 23 7 | 3 18 | 7 38 | 6 5 |
| T 6 | 6 27 | 7 50 | 4 37 | 1 59 | 1 37 | 3 14 | 1 21 | 5 48 | 2 56 | 6 53 | 1 0 | 21 43 | 0 17 | 14 29 | 0 42 | 21 7 | 0 33 | 17 43 | 5 42 | 23 10 | 23 7 | 3 15 | 7 37 | 6 6 |
| W 7 | 6 50 | 12 7 | 4 7 | 2 52 | 1 30 | 3 44 | 1 20 | 5 53 | 2 53 | 6 48 | 1 0 | 21 43 | 0 17 | 14 28 | 0 42 | 21 7 | 0 33 | 17 43 | 5 41 | 23 10 | 23 7 | 3 12 | 7 36 | 6 6 |
| T 8 | 7 13 | 15 58 | 3 25 | 3 45 | 1 23 | 4 13 | 1 19 | 5 57 | 2 51 | 6 43 | 1 0 | 21 42 | 0 17 | 14 27 | 0 42 | 21 7 | 0 33 | 17 43 | 5 41 | 23 11 | 23 7 | 3 10 | 7 35 | 6 6 |
| F 9 | 7 35 | 19 12 | 2 33 | 4 40 | 1 15 | 4 43 | 1 18 | 6 1 | 2 48 | 6 38 | 1 0 | 21 42 | 0 17 | 14 27 | 0 42 | 21 7 | 0 33 | 17 44 | 5 41 | 23 11 | 23 7 | 3 7 | 7 34 | 6 6 |
| S 10 | 7 57 | 21 36 | 1 34 | 5 35 | 1 6 | 5 13 | 1 16 | 6 5 | 2 46 | 6 33 | 1 0 | 21 42 | 0 17 | 14 26 | 0 42 | 21 7 | 0 33 | 17 44 | 5 41 | 23 12 | 23 8 | 3 5 | 7 32 | 6 7 |
| S 11 | 8 19 | 22 58 | 0 28 | 6 30 | 0 58 | 5 42 | 1 15 | 6 8 | 2 43 | 6 28 | 1 1 | 21 42 | 0 17 | 14 25 | 0 42 | 21 7 | 0 33 | 17 44 | 5 41 | 23 12 | 23 8 | 3 2 | 7 31 | 6 7 |
| M12 | 8 41 | 23 9 | 0n41 | 7 26 | 0 48 | 6 12 | 1 14 | 6 11 | 2 41 | 6 23 | 1 1 | 21 41 | 0 17 | 14 25 | 0 42 | 21 7 | 0 33 | 17 44 | 5 41 | 23 12 | 23 8 | 3 0 | 7 30 | 6 7 |
| T 13 | 9 3 | 22 1 | 1 49 | 8 22 | 0 39 | 6 41 | 1 13 | 6 14 | 2 38 | 6 18 | 1 1 | 21 41 | 0 17 | 14 24 | 0 42 | 21 7 | 0 33 | 17 44 | 5 40 | 23 12 | 23 8 | 2 57 | 7 29 | 6 7 |
| W14 | 9 25 | 19 34 | 2 53 | 9 17 | 0 29 | 7 10 | 1 11 | 6 16 | 2 35 | 6 13 | 1 1 | 21 41 | 0 17 | 14 23 | 0 42 | 21 7 | 0 33 | 17 45 | 5 40 | 23 12 | 23 9 | 2 54 | 7 28 | 6 8 |
| T 15 | 9 46 | 15 52 | 3 49 | 10 13 | 0 19 | 7 39 | 1 10 | 6 19 | 2 33 | 6 8 | 1 1 | 21 41 | 0 17 | 14 23 | 0 42 | 21 6 | 0 33 | 17 45 | 5 40 | 23 12 | 23 9 | 2 52 | 7 27 | 6 8 |
| F 16 | 10 7 | 11 7 | 4 31 | 11 9 | 0 8 | 8 8 | 1 9 | 6 20 | 2 30 | 6 3 | 1 1 | 21 41 | 0 16 | 14 22 | 0 42 | 21 6 | 0 33 | 17 45 | 5 40 | 23 12 | 23 9 | 2 49 | 7 26 | 6 8 |
| S 17 | 10 29 | 5 36 | 4 56 | 12 3 | 0n 2 | 8 36 | 1 7 | 6 22 | 2 27 | 5 58 | 1 1 | 21 41 | 0 16 | 14 21 | 0 42 | 21 6 | 0 33 | 17 45 | 5 40 | 23 13 | 23 9 | 2 47 | 7 24 | 6 9 |
| S 18 | 10 50 | 0s20 | 5 1 | 12 57 | 0 13 | 9 5 | 1 6 | 6 23 | 2 25 | 5 53 | 1 2 | 21 40 | 0 16 | 14 21 | 0 42 | 21 6 | 0 33 | 17 45 | 5 40 | 23 14 | 23 10 | 2 44 | 7 23 | 6 9 |
| M19 | 11 10 | 6 16 | 4 44 | 13 50 | 0 24 | 9 33 | 1 4 | 6 24 | 2 22 | 5 49 | 1 2 | 21 40 | 0 16 | 14 20 | 0 42 | 21 6 | 0 33 | 17 46 | 5 40 | 23 14 | 23 10 | 2 41 | 7 22 | 6 9 |
| T 20 | 11 31 | 11 47 | 4 8 | 14 42 | 0 35 | 10 1 | 1 3 | 6 25 | 2 19 | 5 44 | 1 2 | 21 40 | 0 16 | 14 20 | 0 42 | 21 6 | 0 33 | 17 46 | 5 39 | 23 15 | 23 10 | 2 39 | 7 21 | 6 9 |
| W21 | 11 51 | 16 30 | 3 16 | 15 33 | 0 45 | 10 29 | 1 1 | 6 25 | 2 16 | 5 39 | 1 2 | 21 40 | 0 16 | 14 19 | 0 42 | 21 6 | 0 33 | 17 46 | 5 39 | 23 15 | 23 10 | 2 36 | 7 20 | 6 10 |
| T 22 | 12 12 | 20 6 | 2 12 | 16 22 | 0 56 | 10 56 | 0 59 | 6 25 | 2 14 | 5 34 | 1 2 | 21 40 | 0 16 | 14 18 | 0 42 | 21 6 | 0 33 | 17 46 | 5 39 | 23 15 | 23 10 | 2 34 | 7 19 | 6 10 |
| F 23 | 12 32 | 22 23 | 1 2 | 17 9 | 1 6 | 11 23 | 0 57 | 6 24 | 2 11 | 5 30 | 1 2 | 21 40 | 0 16 | 14 18 | 0 42 | 21 6 | 0 33 | 17 46 | 5 39 | 23 16 | 23 11 | 2 31 | 7 18 | 6 10 |
| S 24 | 12 52 | 23 18 | 0s 9 | 17 54 | 1 16 | 11 50 | 0 56 | 6 24 | 2 8 | 5 25 | 1 3 | 21 40 | 0 16 | 14 17 | 0 42 | 21 6 | 0 33 | 17 46 | 5 39 | 23 16 | 23 11 | 2 28 | 7 17 | 6 11 |
| S 25 | 13 11 | 22 54 | 1 18 | 18 37 | 1 26 | 12 17 | 0 54 | 6 23 | 2 6 | 5 20 | 1 3 | 21 40 | 0 16 | 14 17 | 0 43 | 21 6 | 0 33 | 17 47 | 5 39 | 23 16 | 23 11 | 2 26 | 7 16 | 6 11 |
| M26 | 13 31 | 21 20 | 2 20 | 19 18 | 1 35 | 12 43 | 0 52 | 6 22 | 2 3 | 5 16 | 1 3 | 21 40 | 0 16 | 14 16 | 0 43 | 21 6 | 0 33 | 17 47 | 5 38 | 23 16 | 23 11 | 2 23 | 7 15 | 6 11 |
| T 27 | 13 50 | 18 47 | 3 15 | 19 57 | 1 44 | 13 9 | 0 50 | 6 20 | 2 1 | 5 11 | 1 3 | 21 40 | 0 16 | 14 16 | 0 43 | 21 6 | 0 33 | 17 47 | 5 38 | 23 16 | 23 11 | 2 20 | 7 14 | 6 12 |
| W28 | 14 9 | 15 28 | 4 0 | 20 33 | 1 52 | 13 35 | 0 48 | 6 18 | 1 58 | 5 7 | 1 3 | 21 40 | 0 16 | 14 15 | 0 43 | 21 6 | 0 33 | 17 47 | 5 38 | 23 16 | 23 12 | 2 18 | 7 13 | 6 12 |
| T 29 | 14 28 | 11 34 | 4 33 | 21 6 | 1 59 | 14 1 | 0 46 | 6 16 | 1 55 | 5 2 | 1 4 | 21 40 | 0 16 | 14 15 | 0 43 | 21 6 | 0 33 | 17 47 | 5 38 | 23 16 | 23 12 | 2 15 | 7 12 | 6 12 |
| F 30 | 14n46 | 7s15 | 4s55 | 21n37 | 2n 6 | 14n26 | 0s44 | 6n14 | 1n53 | 4s58 | 1s 4 | 21s40 | 0n16 | 14s15 | 0s43 | 21s 6 | 0n33 | 17n47 | 5s38 | 23n16 | 23n12 | 2s13 | 7s11 | 6n13 |

Julian Day Number = 2329644.5, Delta T = 32.18 sec
Ecliptic obliquity = 23°28'57, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'54, Lahiri = 19°11'54Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## MAY 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 36 30 | 10♉44'39 | 4♈59 | 28♉57 | 12♉ 9 | 18♍39 | 20♓ 9 | 20°R25 | 23♒57 | 22°R11 | 25♊57 | 7°R16 | 8♋34 | 6♈25 | 25♒32 | S 1 |
| S 2 | 14 40 26 | 11°42'43 | 16°52 | 0♊34 | 13°23 | 18°41 | 20°20 | 20♑25 | 23°58 | 22♑11 | 25°58 | 7♋ 6 | 8°31 | 6°32 | 25°34 | S 2 |
| M 3 | 14 44 23 | 12°40'45 | 28°49 | 2° 8 | 14°37 | 18°43 | 20°32 | 20°25 | 23°59 | 22°11 | 25°59 | 6°56 | 8°28 | 6°39 | 25°35 | M 3 |
| T 4 | 14 48 19 | 13°38'46 | 10♉52 | 3°38 | 15°51 | 18°46 | 20°43 | 20°24 | 24° 1 | 22°10 | 26° 0 | 6°46 | 8°24 | 6°46 | 25°37 | T 4 |
| W 5 | 14 52 16 | 14°36'46 | 23° 2 | 5° 3 | 17° 5 | 18°50 | 20°55 | 20°24 | 24° 2 | 22°10 | 26° 2 | 6°37 | 8°21 | 6°52 | 25°38 | W 5 |
| T 6 | 14 56 12 | 15°34'44 | 5♊21 | 6°26 | 18°19 | 18°54 | 21° 6 | 20°23 | 24° 3 | 22°10 | 26° 3 | 6°31 | 8°18 | 6°59 | 25°40 | T 6 |
| F 7 | 15 0 9 | 16°32'40 | 17°49 | 7°44 | 19°32 | 18°59 | 21°17 | 20°22 | 24° 4 | 22° 9 | 26° 4 | 6°27 | 8°15 | 7° 6 | 25°41 | F 7 |
| S 8 | 15 4 5 | 17°30'35 | 0♋28 | 8°58 | 20°46 | 19° 5 | 21°28 | 20°22 | 24° 5 | 22° 9 | 26° 5 | 6°D25 | 8°12 | 7°12 | 25°43 | S 8 |
| S 9 | 15 8 2 | 18°28'28 | 13°20 | 10° 8 | 22° 0 | 19°11 | 21°39 | 20°21 | 24° 6 | 22° 8 | 26° 6 | 6°25 | 8° 8 | 7°19 | 25°44 | S 9 |
| M10 | 15 11 59 | 19°26'19 | 26°27 | 11°14 | 23°14 | 19°19 | 21°50 | 20°20 | 24° 7 | 22° 8 | 26° 7 | 6°26 | 8° 5 | 7°26 | 25°45 | M10 |
| T 11 | 15 15 55 | 20°24'08 | 9♌51 | 12°16 | 24°28 | 19°27 | 22° 1 | 20°19 | 24° 8 | 22° 7 | 26° 9 | 6°27 | 8° 2 | 7°33 | 25°46 | T 11 |
| W12 | 15 19 52 | 21°21'56 | 23°34 | 13°13 | 25°42 | 19°35 | 22°11 | 20°18 | 24° 9 | 22° 7 | 26°10 | 6°R28 | 7°59 | 7°39 | 25°48 | W12 |
| T 13 | 15 23 48 | 22°19'41 | 7♍37 | 14° 6 | 26°56 | 19°44 | 22°22 | 20°16 | 24°10 | 22° 6 | 26°11 | 6°27 | 7°56 | 7°46 | 25°49 | T 13 |
| F 14 | 15 27 45 | 23°17'26 | 22° 0 | 14°55 | 28° 9 | 19°54 | 22°32 | 20°15 | 24°10 | 22° 6 | 26°12 | 6°24 | 7°53 | 7°53 | 25°50 | F 14 |
| S 15 | 15 31 41 | 24°15'08 | 6♎39 | 15°39 | 29°23 | 20° 4 | 22°42 | 20°14 | 24°11 | 22° 5 | 26°13 | 6°19 | 7°49 | 7°59 | 25°51 | S 15 |
| S 16 | 15 35 38 | 25°12'49 | 21°29 | 16°19 | 0♊37 | 20°15 | 22°53 | 20°12 | 24°12 | 22° 4 | 26°15 | 6°14 | 7°46 | 8° 6 | 25°51 | S 16 |
| M17 | 15 39 34 | 26°10'28 | 6♏23 | 16°54 | 1°51 | 20°27 | 23° 3 | 20°10 | 24°12 | 22° 4 | 26°16 | 6° 8 | 7°43 | 8°13 | 25°52 | M17 |
| T 18 | 15 43 31 | 27° 8'06 | 21°13 | 17°25 | 3° 4 | 20°39 | 23°13 | 20° 9 | 24°13 | 22° 3 | 26°17 | 6° 2 | 7°40 | 8°20 | 25°53 | T 18 |
| W19 | 15 47 28 | 28° 5'43 | 5♐50 | 17°51 | 4°18 | 20°52 | 23°23 | 20° 7 | 24°13 | 22° 2 | 26°19 | 5°58 | 7°37 | 8°26 | 25°54 | W19 |
| T 20 | 15 51 24 | 29° 3'18 | 20° 7 | 18°12 | 5°32 | 21° 5 | 23°32 | 20° 5 | 24°14 | 22° 1 | 26°20 | 5°55 | 7°33 | 8°33 | 25°54 | T 20 |
| F 21 | 15 55 21 | 0♊ 0'53 | 4♑ 0 | 18°28 | 6°46 | 21°19 | 23°42 | 20° 3 | 24°14 | 22° 0 | 26°21 | 5°D54 | 7°30 | 8°40 | 25°55 | F 21 |
| S 22 | 15 59 17 | 0°58'26 | 17°28 | 18°40 | 7°59 | 21°33 | 23°52 | 20° 1 | 24°15 | 22° 0 | 26°23 | 5°55 | 7°27 | 8°47 | 25°56 | S 22 |
| S 23 | 16 3 14 | 1°55'59 | 0♒31 | 18°47 | 9°13 | 21°48 | 24° 1 | 19°59 | 24°15 | 21°59 | 26°24 | 5°56 | 7°24 | 8°53 | 25°56 | S 23 |
| M24 | 16 7 10 | 2°53'30 | 13°11 | 18°R49 | 10°27 | 22° 3 | 24°10 | 19°57 | 24°15 | 21°58 | 26°25 | 5°58 | 7°21 | 9° 0 | 25°56 | M24 |
| T 25 | 16 11 7 | 3°51'01 | 25°33 | 18°47 | 11°41 | 22°19 | 24°19 | 19°54 | 24°16 | 21°57 | 26°27 | 5°59 | 7°18 | 9° 7 | 25°57 | T 25 |
| W26 | 16 15 3 | 4°48'30 | 7♓40 | 18°40 | 12°54 | 22°35 | 24°28 | 19°52 | 24°16 | 21°56 | 26°28 | 5°R59 | 7°14 | 9°13 | 25°57 | W26 |
| T 27 | 16 19 0 | 5°45'59 | 19°38 | 18°29 | 14° 8 | 22°52 | 24°37 | 19°50 | 24°16 | 21°55 | 26°29 | 5°58 | 7°11 | 9°20 | 25°57 | T 27 |
| F 28 | 16 22 57 | 6°43'28 | 1♈31 | 18°14 | 15°22 | 23° 9 | 24°46 | 19°47 | 24°16 | 21°54 | 26°31 | 5°56 | 7° 8 | 9°27 | 25°57 | F 28 |
| S 29 | 16 26 53 | 7°40'55 | 13°23 | 17°56 | 16°35 | 23°27 | 24°55 | 19°44 | 24°R16 | 21°53 | 26°32 | 5°53 | 7° 5 | 9°34 | 25°57 | S 29 |
| S 30 | 16 30 50 | 8°38'21 | 25°19 | 17°33 | 17°49 | 23°45 | 25° 3 | 19°42 | 24°16 | 21°52 | 26°33 | 5°48 | 7° 2 | 9°40 | 25°R58 | S 30 |
| M31 | 16 34 46 | 9♊35'47 | 7♉21 | 17♊ 8 | 19♊ 3 | 24♍ 4 | 25♓12 | 19♑39 | 24♒16 | 21♑51 | 26♊35 | 5♋44 | 6♋59 | 9♈47 | 25♒57 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n 4 | 2s40 | 5s 4 | 22n 6 | 2n12 | 14n51 | 0s42 | 6n11 | 1n50 | 4s53 | 1s 4 | 21s40 | 0n16 | 14s14 | 0s43 | 21s 6 | 0n33 | 17n48 | 5s38 | 23n17 | 23n12 | 2s10 | 7s10 | 6n13 |
| S 2 | 15 22 | 2n 1 | 5 0 | 22 32 | 2 17 | 15 15 | 0 40 | 6 8 | 1 48 | 4 49 | 1 4 | 21 40 | 0 16 | 14 14 | 0 43 | 21 6 | 0 33 | 17 48 | 5 38 | 23 17 | 23 13 | 2 7 | 7 10 | 6 13 |
| M 3 | 15 40 | 6 40 | 4 43 | 22 56 | 2 21 | 15 39 | 0 38 | 6 5 | 1 45 | 4 45 | 1 4 | 21 40 | 0 16 | 14 13 | 0 43 | 21 6 | 0 33 | 17 48 | 5 37 | 23 18 | 23 13 | 2 5 | 7 9 | 6 14 |
| T 4 | 15 58 | 11 6 | 4 13 | 23 17 | 2 24 | 16 3 | 0 36 | 6 2 | 1 43 | 4 40 | 1 4 | 21 40 | 0 15 | 14 13 | 0 43 | 21 6 | 0 33 | 17 48 | 5 37 | 23 19 | 23 13 | 2 2 | 7 8 | 6 14 |
| W 5 | 16 15 | 15 10 | 3 31 | 23 36 | 2 27 | 16 26 | 0 33 | 5 58 | 1 40 | 4 36 | 1 5 | 21 41 | 0 15 | 14 13 | 0 43 | 21 6 | 0 33 | 17 48 | 5 37 | 23 19 | 23 13 | 1 59 | 7 7 | 6 14 |
| T 6 | 16 32 | 18 37 | 2 39 | 23 52 | 2 29 | 16 49 | 0 31 | 5 54 | 1 38 | 4 32 | 1 5 | 21 41 | 0 15 | 14 12 | 0 43 | 21 6 | 0 33 | 17 49 | 5 37 | 23 19 | 23 13 | 1 57 | 7 6 | 6 15 |
| F 7 | 16 49 | 21 17 | 1 38 | 24 6 | 2 30 | 17 11 | 0 29 | 5 50 | 1 35 | 4 27 | 1 5 | 21 41 | 0 15 | 14 12 | 0 43 | 21 7 | 0 33 | 17 49 | 5 37 | 23 19 | 23 14 | 1 54 | 7 5 | 6 15 |
| S 8 | 17 5 | 22 57 | 0 32 | 24 18 | 2 30 | 17 33 | 0 27 | 5 45 | 1 33 | 4 23 | 1 5 | 21 41 | 0 15 | 14 12 | 0 43 | 21 7 | 0 33 | 17 49 | 5 37 | 23 20 | 23 14 | 1 52 | 7 5 | 6 15 |
| S 9 | 17 21 | 23 26 | 0n37 | 24 28 | 2 29 | 17 54 | 0 24 | 5 40 | 1 30 | 4 19 | 1 5 | 21 41 | 0 15 | 14 11 | 0 43 | 21 7 | 0 33 | 17 49 | 5 37 | 23 20 | 23 14 | 1 49 | 7 4 | 6 16 |
| M10 | 17 37 | 22 38 | 1 46 | 24 35 | 2 27 | 18 15 | 0 22 | 5 35 | 1 28 | 4 15 | 1 6 | 21 41 | 0 15 | 14 11 | 0 43 | 21 7 | 0 33 | 17 49 | 5 37 | 23 20 | 23 14 | 1 46 | 7 3 | 6 16 |
| T 11 | 17 53 | 20 33 | 2 50 | 24 41 | 2 24 | 18 36 | 0 20 | 5 30 | 1 26 | 4 11 | 1 6 | 21 42 | 0 15 | 14 11 | 0 43 | 21 7 | 0 33 | 17 49 | 5 36 | 23 19 | 23 14 | 1 44 | 7 2 | 6 16 |
| W12 | 18 8 | 17 15 | 3 47 | 24 45 | 2 20 | 18 56 | 0 18 | 5 25 | 1 23 | 4 7 | 1 6 | 21 42 | 0 15 | 14 10 | 0 43 | 21 7 | 0 33 | 17 49 | 5 36 | 23 19 | 23 14 | 1 41 | 7 2 | 6 17 |
| T 13 | 18 23 | 12 55 | 4 31 | 24 46 | 2 15 | 19 16 | 0 15 | 5 19 | 1 21 | 4 3 | 1 6 | 21 42 | 0 15 | 14 10 | 0 43 | 21 7 | 0 33 | 17 50 | 5 36 | 23 20 | 23 15 | 1 38 | 7 1 | 6 17 |
| F 14 | 18 38 | 7 46 | 4 59 | 24 46 | 2 10 | 19 35 | 0 13 | 5 13 | 1 19 | 3 59 | 1 6 | 21 42 | 0 15 | 14 10 | 0 43 | 21 7 | 0 33 | 17 50 | 5 36 | 23 20 | 23 15 | 1 36 | 7 0 | 6 17 |
| S 15 | 18 52 | 2 5 | 5 9 | 24 45 | 2 3 | 19 53 | 0 10 | 5 7 | 1 17 | 3 55 | 1 7 | 21 43 | 0 15 | 14 10 | 0 43 | 21 7 | 0 33 | 17 50 | 5 36 | 23 20 | 23 15 | 1 33 | 7 0 | 6 18 |
| S 16 | 19 6 | 3s47 | 4 58 | 24 41 | 1 55 | 20 11 | 0 8 | 5 1 | 1 15 | 3 51 | 1 7 | 21 43 | 0 15 | 14 10 | 0 43 | 21 7 | 0 33 | 17 50 | 5 36 | 23 20 | 23 15 | 1 30 | 6 59 | 6 18 |
| M17 | 19 20 | 9 28 | 4 27 | 24 36 | 1 46 | 20 28 | 0 6 | 4 54 | 1 12 | 3 48 | 1 7 | 21 43 | 0 15 | 14 9 | 0 43 | 21 7 | 0 33 | 17 50 | 5 36 | 23 20 | 23 15 | 1 28 | 6 59 | 6 18 |
| T 18 | 19 33 | 14 35 | 3 39 | 24 29 | 1 37 | 20 45 | 0 3 | 4 47 | 1 10 | 3 44 | 1 7 | 21 44 | 0 15 | 14 9 | 0 43 | 21 8 | 0 33 | 17 50 | 5 36 | 23 21 | 23 16 | 1 25 | 6 58 | 6 19 |
| W19 | 19 46 | 18 45 | 2 36 | 24 21 | 1 26 | 21 2 | 0 1 | 4 40 | 1 8 | 3 40 | 1 8 | 21 44 | 0 15 | 14 9 | 0 43 | 21 8 | 0 33 | 17 51 | 5 35 | 23 21 | 23 16 | 1 23 | 6 57 | 6 19 |
| T 20 | 19 59 | 21 42 | 1 25 | 24 12 | 1 15 | 21 17 | 0n 1 | 4 33 | 1 6 | 3 36 | 1 8 | 21 44 | 0 15 | 14 9 | 0 43 | 21 8 | 0 33 | 17 51 | 5 35 | 23 21 | 23 16 | 1 20 | 6 57 | 6 19 |
| F 21 | 20 11 | 23 15 | 0 10 | 24 1 | 1 2 | 21 32 | 0 4 | 4 26 | 1 4 | 3 33 | 1 8 | 21 45 | 0 14 | 14 9 | 0 44 | 21 8 | 0 33 | 17 51 | 5 35 | 23 21 | 23 16 | 1 17 | 6 56 | 6 20 |
| S 22 | 20 23 | 23 22 | 1s 3 | 23 49 | 0 49 | 21 47 | 0 6 | 4 18 | 1 2 | 3 29 | 1 8 | 21 45 | 0 14 | 14 9 | 0 44 | 21 8 | 0 33 | 17 51 | 5 35 | 23 21 | 23 16 | 1 15 | 6 56 | 6 20 |
| S 23 | 20 35 | 22 12 | 2 10 | 23 35 | 0 35 | 22 1 | 0 9 | 4 11 | 1 0 | 3 26 | 1 8 | 21 45 | 0 14 | 14 9 | 0 44 | 21 8 | 0 33 | 17 51 | 5 35 | 23 21 | 23 17 | 1 12 | 6 55 | 6 21 |
| M24 | 20 46 | 19 55 | 3 9 | 23 21 | 0 20 | 22 14 | 0 11 | 4 3 | 0 58 | 3 22 | 1 9 | 21 46 | 0 14 | 14 9 | 0 44 | 21 8 | 0 33 | 17 51 | 5 35 | 23 21 | 23 17 | 1 9 | 6 55 | 6 21 |
| T 25 | 20 57 | 16 46 | 3 58 | 23 5 | 0 5 | 22 27 | 0 14 | 3 55 | 0 56 | 3 19 | 1 9 | 21 46 | 0 14 | 14 9 | 0 44 | 21 8 | 0 33 | 17 51 | 5 35 | 23 21 | 23 17 | 1 7 | 6 54 | 6 21 |
| W26 | 21 8 | 12 58 | 4 35 | 22 49 | 0s11 | 22 39 | 0 16 | 3 46 | 0 54 | 3 15 | 1 9 | 21 47 | 0 14 | 14 9 | 0 44 | 21 9 | 0 33 | 17 51 | 5 35 | 23 21 | 23 17 | 1 4 | 6 54 | 6 22 |
| T 27 | 21 18 | 8 42 | 5 0 | 22 31 | 0 28 | 22 50 | 0 18 | 3 38 | 0 52 | 3 12 | 1 9 | 21 47 | 0 14 | 14 9 | 0 44 | 21 9 | 0 33 | 17 52 | 5 35 | 23 21 | 23 17 | 1 1 | 6 54 | 6 22 |
| F 28 | 21 28 | 4 9 | 5 12 | 22 13 | 0 45 | 23 1 | 0 21 | 3 29 | 0 50 | 3 9 | 1 10 | 21 47 | 0 14 | 14 9 | 0 44 | 21 9 | 0 33 | 17 52 | 5 35 | 23 21 | 23 17 | 0 59 | 6 53 | 6 22 |
| S 29 | 21 38 | 0n32 | 5 10 | 21 54 | 1 2 | 23 11 | 0 23 | 3 21 | 0 48 | 3 6 | 1 10 | 21 48 | 0 14 | 14 9 | 0 44 | 21 9 | 0 33 | 17 52 | 5 34 | 23 21 | 23 18 | 0 56 | 6 53 | 6 23 |
| S 30 | 21 47 | 5 14 | 4 55 | 21 35 | 1 19 | 23 21 | 0 25 | 3 12 | 0 46 | 3 2 | 1 10 | 21 48 | 0 14 | 14 9 | 0 44 | 21 9 | 0 33 | 17 52 | 5 34 | 23 21 | 23 18 | 0 53 | 6 52 | 6 23 |
| M31 | 21n56 | 9n47 | 4s27 | 21n15 | 1s37 | 23n29 | 0n28 | 3n 2 | 0n44 | 2s59 | 1s10 | 21s49 | 0n14 | 14s 9 | 0s44 | 21s 9 | 0n33 | 17n52 | 5s34 | 23n21 | 23n18 | 0s51 | 6s52 | 6n23 |

Julian Day Number = 2329674.5, Delta T = 32.13 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°04'58, Lahiri = 19°11'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## JUNE 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 38 43 | 10♊33'13 | 19♉32 | 16°R40 | 20♊16 | 24♍23 | 25♓20 | 19°R36 | 24°R16 | 21°R50 | 26♊36 | 5°R40 | 6♋55 | 9♈54 | 25°R57 | T 1 |
| W 2 | 16 42 39 | 11°30'37 | 1♊53 | 16♊10 | 21°30 | 24°43 | 25°28 | 19♑33 | 24♒16 | 21♑49 | 26°38 | 5♋36 | 6°52 | 10° 1 | 25♒57 | W 2 |
| T 3 | 16 46 36 | 12°28'01 | 14°26 | 15°38 | 22°43 | 25° 3 | 25°36 | 19°30 | 24°15 | 21°47 | 26°39 | 5°34 | 6°49 | 10° 7 | 25°57 | T 3 |
| F 4 | 16 50 32 | 13°25'23 | 27°12 | 15° 5 | 23°57 | 25°23 | 25°44 | 19°27 | 24°15 | 21°46 | 26°40 | 5°33 | 6°46 | 10°14 | 25°57 | F 4 |
| S 5 | 16 54 29 | 14°22'45 | 10♋11 | 14°32 | 25°11 | 25°44 | 25°51 | 19°24 | 24°15 | 21°45 | 26°42 | 5°D32 | 6°43 | 10°21 | 25°56 | S 5 |
| S 6 | 16 58 26 | 15°20'06 | 23°23 | 13°58 | 26°24 | 26° 5 | 25°59 | 19°21 | 24°14 | 21°44 | 26°43 | 5°33 | 6°39 | 10°27 | 25°56 | S 6 |
| M 7 | 17 2 22 | 16°17'27 | 6♌48 | 13°25 | 27°38 | 26°27 | 26° 6 | 19°17 | 24°14 | 21°43 | 26°45 | 5°34 | 6°36 | 10°34 | 25°56 | M 7 |
| T 8 | 17 6 19 | 17°14'46 | 20°26 | 12°53 | 28°52 | 26°49 | 26°14 | 19°14 | 24°14 | 21°41 | 26°46 | 5°36 | 6°33 | 10°41 | 25°55 | T 8 |
| W 9 | 17 10 15 | 18°12'04 | 4♍17 | 12°23 | 0♋ 5 | 27°11 | 26°21 | 19°11 | 24°13 | 21°40 | 26°48 | 5°37 | 6°30 | 10°48 | 25°54 | W 9 |
| T 10 | 17 14 12 | 19° 9'21 | 18°20 | 11°55 | 1°19 | 27°34 | 26°28 | 19° 7 | 24°12 | 21°39 | 26°49 | 5°R37 | 6°27 | 10°54 | 25°54 | T 10 |
| F 11 | 17 18 8 | 20° 6'38 | 2♎34 | 11°30 | 2°32 | 27°57 | 26°35 | 19° 4 | 24°12 | 21°38 | 26°50 | 5°37 | 6°24 | 11° 1 | 25°53 | F 11 |
| S 12 | 17 22 5 | 21° 3'53 | 16°56 | 11° 8 | 3°46 | 28°20 | 26°41 | 19° 0 | 24°11 | 21°36 | 26°52 | 5°36 | 6°20 | 11° 8 | 25°52 | S 12 |
| S 13 | 17 26 1 | 22° 1'08 | 1♏23 | 10°49 | 4°59 | 28°44 | 26°48 | 18°56 | 24°11 | 21°35 | 26°53 | 5°34 | 6°17 | 11°14 | 25°52 | S 13 |
| M14 | 17 29 58 | 22°58'21 | 15°51 | 10°34 | 6°13 | 29° 8 | 26°54 | 18°53 | 24°10 | 21°34 | 26°55 | 5°33 | 6°14 | 11°21 | 25°51 | M14 |
| T 15 | 17 33 55 | 23°55'35 | 0♐14 | 10°23 | 7°26 | 29°33 | 27° 0 | 18°49 | 24° 9 | 21°32 | 26°56 | 5°31 | 6°11 | 11°28 | 25°50 | T 15 |
| W16 | 17 37 51 | 24°52'47 | 14°27 | 10°16 | 8°40 | 29°57 | 27° 6 | 18°45 | 24° 8 | 21°31 | 26°58 | 5°30 | 6° 8 | 11°35 | 25°49 | W16 |
| T 17 | 17 41 48 | 25°50'00 | 28°26 | 10°D14 | 9°53 | 0♎23 | 27°12 | 18°41 | 24° 7 | 21°29 | 26°59 | 5°30 | 6° 5 | 11°41 | 25°48 | T 17 |
| F 18 | 17 45 44 | 26°47'12 | 12♑ 6 | 10°17 | 11° 7 | 0°48 | 27°18 | 18°37 | 24° 6 | 21°28 | 27° 1 | 5°D30 | 6° 1 | 11°48 | 25°47 | F 18 |
| S 19 | 17 49 41 | 27°44'23 | 25°27 | 10°24 | 12°20 | 1°14 | 27°23 | 18°33 | 24° 5 | 21°27 | 27° 2 | 5°30 | 5°58 | 11°55 | 25°45 | S 19 |
| S 20 | 17 53 37 | 28°41'35 | 8♒27 | 10°36 | 13°34 | 1°40 | 27°29 | 18°30 | 24° 4 | 21°25 | 27° 4 | 5°31 | 5°55 | 12° 2 | 25°44 | S 20 |
| M21 | 17 57 34 | 29°38'46 | 21° 7 | 10°52 | 14°47 | 2° 6 | 27°34 | 18°25 | 24° 3 | 21°24 | 27° 5 | 5°32 | 5°52 | 12° 8 | 25°43 | M21 |
| T 22 | 18 1 31 | 0♋35'57 | 3♓30 | 11°14 | 16° 1 | 2°33 | 27°39 | 18°21 | 24° 2 | 21°22 | 27° 6 | 5°32 | 5°49 | 12°15 | 25°42 | T 22 |
| W23 | 18 5 27 | 1°33'08 | 15°40 | 11°40 | 17°14 | 3° 0 | 27°44 | 18°17 | 24° 1 | 21°21 | 27° 8 | 5°32 | 5°45 | 12°22 | 25°40 | W23 |
| T 24 | 18 9 24 | 2°30'20 | 27°40 | 12°11 | 18°28 | 3°27 | 27°48 | 18°13 | 24° 0 | 21°19 | 27° 9 | 5°R33 | 5°42 | 12°28 | 25°39 | T 24 |
| F 25 | 18 13 20 | 3°27'31 | 9♈34 | 12°46 | 19°41 | 3°54 | 27°53 | 18° 9 | 23°59 | 21°18 | 27°11 | 5°33 | 5°39 | 12°35 | 25°37 | F 25 |
| S 26 | 18 17 17 | 4°24'42 | 21°28 | 13°26 | 20°54 | 4°22 | 27°57 | 18° 5 | 23°58 | 21°16 | 27°12 | 5°33 | 5°36 | 12°42 | 25°36 | S 26 |
| S 27 | 18 21 13 | 5°21'54 | 3♉25 | 14°11 | 22° 8 | 4°50 | 28° 1 | 18° 1 | 23°56 | 21°15 | 27°14 | 5°D33 | 5°33 | 12°49 | 25°34 | S 27 |
| M28 | 18 25 10 | 6°19'06 | 15°30 | 15° 1 | 23°21 | 5°18 | 28° 5 | 17°56 | 23°55 | 21°13 | 27°15 | 5°33 | 5°30 | 12°55 | 25°33 | M28 |
| T 29 | 18 29 6 | 7°16'18 | 27°46 | 15°54 | 24°35 | 5°47 | 28° 9 | 17°52 | 23°54 | 21°11 | 27°17 | 5°33 | 5°26 | 13° 2 | 25°31 | T 29 |
| W30 | 18 33 3 | 8♋13'30 | 10♊17 | 16♊53 | 25♋48 | 6♎16 | 28♓13 | 17♑48 | 23♒52 | 21♑10 | 27♊18 | 5♋33 | 5♋23 | 13♈ 9 | 25♒29 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 4 | 14n 1 | 3s46 | 20n56 | 1s54 | 23n37 | 0n30 | 2n53 | 0n43 | 2s56 | 1s11 | 21s49 | 0n14 | 14s 9 | 0s44 | 21s10 | 0n33 | 17n52 | 5s34 | 23n22 | 23n18 | 0s48 | 6s52 | 6n24 |
| W 2 | 22 12 | 17 44 | 2 54 | 20 36 | 2 11 | 23 45 | 0 32 | 2 44 | 0 41 | 2 53 | 1 11 | 21 50 | 0 14 | 14 9 | 0 44 | 21 10 | 0 33 | 17 52 | 5 34 | 23 22 | 23 18 | 0 45 | 6 52 | 6 24 |
| T 3 | 22 20 | 20 42 | 1 53 | 20 16 | 2 27 | 23 51 | 0 35 | 2 34 | 0 39 | 2 50 | 1 11 | 21 50 | 0 14 | 14 9 | 0 44 | 21 10 | 0 33 | 17 52 | 5 34 | 23 22 | 23 18 | 0 43 | 6 51 | 6 24 |
| F 4 | 22 27 | 22 41 | 0 46 | 19 57 | 2 43 | 23 57 | 0 37 | 2 25 | 0 37 | 2 47 | 1 11 | 21 51 | 0 14 | 14 9 | 0 44 | 21 10 | 0 33 | 17 53 | 5 34 | 23 22 | 23 19 | 0 40 | 6 51 | 6 25 |
| S 5 | 22 34 | 23 31 | 0n26 | 19 38 | 2 58 | 24 3 | 0 39 | 2 15 | 0 36 | 2 45 | 1 12 | 21 51 | 0 13 | 14 9 | 0 44 | 21 10 | 0 33 | 17 53 | 5 34 | 23 22 | 23 19 | 0 37 | 6 51 | 6 25 |
| S 6 | 22 40 | 23 2 | 1 37 | 19 21 | 3 12 | 24 7 | 0 41 | 2 5 | 0 34 | 2 42 | 1 12 | 21 52 | 0 13 | 14 10 | 0 44 | 21 10 | 0 33 | 17 53 | 5 34 | 23 22 | 23 19 | 0 35 | 6 51 | 6 26 |
| M 7 | 22 47 | 21 15 | 2 44 | 19 4 | 3 25 | 24 11 | 0 44 | 1 55 | 0 32 | 2 39 | 1 12 | 21 52 | 0 13 | 14 10 | 0 44 | 21 11 | 0 33 | 17 53 | 5 34 | 23 22 | 23 19 | 0 32 | 6 50 | 6 26 |
| T 8 | 22 52 | 18 13 | 3 43 | 18 48 | 3 37 | 24 14 | 0 46 | 1 44 | 0 31 | 2 37 | 1 12 | 21 53 | 0 13 | 14 10 | 0 44 | 21 11 | 0 33 | 17 53 | 5 34 | 23 22 | 23 19 | 0 29 | 6 50 | 6 26 |
| W 9 | 22 57 | 14 8 | 4 30 | 18 34 | 3 47 | 24 17 | 0 48 | 1 34 | 0 29 | 2 34 | 1 13 | 21 53 | 0 13 | 14 10 | 0 44 | 21 11 | 0 33 | 17 53 | 5 34 | 23 22 | 23 19 | 0 26 | 6 50 | 6 27 |
| T 10 | 23 2 | 9 14 | 5 1 | 18 21 | 3 57 | 24 18 | 0 50 | 1 23 | 0 27 | 2 31 | 1 13 | 21 54 | 0 13 | 14 10 | 0 44 | 21 11 | 0 33 | 17 53 | 5 33 | 23 22 | 23 19 | 0 24 | 6 50 | 6 27 |
| F 11 | 23 7 | 3 48 | 5 15 | 18 9 | 4 5 | 24 19 | 0 52 | 1 13 | 0 26 | 2 29 | 1 13 | 21 55 | 0 13 | 14 11 | 0 44 | 21 11 | 0 33 | 17 53 | 5 33 | 23 22 | 23 20 | 0 21 | 6 50 | 6 27 |
| S 12 | 23 11 | 1s54 | 5 9 | 18 0 | 4 12 | 24 20 | 0 54 | 1 2 | 0 24 | 2 27 | 1 13 | 21 55 | 0 13 | 14 11 | 0 44 | 21 12 | 0 33 | 17 53 | 5 33 | 23 22 | 23 20 | 0 18 | 6 50 | 6 28 |
| S 13 | 23 14 | 7 32 | 4 44 | 17 52 | 4 17 | 24 19 | 0 56 | 0 51 | 0 23 | 2 24 | 1 14 | 21 56 | 0 13 | 14 11 | 0 44 | 21 12 | 0 33 | 17 54 | 5 33 | 23 22 | 23 20 | 0 16 | 6 50 | 6 28 |
| M14 | 23 18 | 12 46 | 4 1 | 17 46 | 4 21 | 24 18 | 0 58 | 0 40 | 0 21 | 2 22 | 1 14 | 21 56 | 0 13 | 14 11 | 0 44 | 21 12 | 0 33 | 17 54 | 5 33 | 23 22 | 23 20 | 0 13 | 6 50 | 6 28 |
| T 15 | 23 21 | 17 15 | 3 3 | 17 42 | 4 23 | 24 16 | 1 0 | 0 29 | 0 19 | 2 20 | 1 14 | 21 57 | 0 13 | 14 12 | 0 44 | 21 12 | 0 33 | 17 54 | 5 33 | 23 22 | 23 20 | 0 10 | 6 50 | 6 29 |
| W16 | 23 23 | 20 41 | 1 54 | 17 40 | 4 25 | 24 14 | 1 2 | 0 17 | 0 18 | 2 18 | 1 15 | 21 58 | 0 13 | 14 12 | 0 45 | 21 13 | 0 33 | 17 54 | 5 33 | 23 22 | 23 20 | 0 8 | 6 50 | 6 29 |
| T 17 | 23 25 | 22 49 | 0 39 | 17 40 | 4 25 | 24 10 | 1 4 | 0 6 | 0 16 | 2 16 | 1 15 | 21 58 | 0 13 | 14 12 | 0 45 | 21 13 | 0 33 | 17 54 | 5 33 | 23 22 | 23 21 | 0 5 | 6 50 | 6 29 |
| F 18 | 23 27 | 23 32 | 0s37 | 17 41 | 4 23 | 24 6 | 1 6 | 0s 5 | 0 15 | 2 14 | 1 15 | 21 59 | 0 12 | 14 13 | 0 45 | 21 13 | 0 33 | 17 54 | 5 33 | 23 22 | 23 21 | 0 2 | 6 50 | 6 29 |
| S 19 | 23 28 | 22 52 | 1 48 | 17 45 | 4 21 | 24 2 | 1 7 | 0 17 | 0 14 | 2 12 | 1 15 | 21 59 | 0 12 | 14 13 | 0 45 | 21 13 | 0 33 | 17 54 | 5 33 | 23 22 | 23 21 | 0n 0 | 6 50 | 6 30 |
| S 20 | 23 29 | 20 57 | 2 52 | 17 50 | 4 17 | 23 56 | 1 9 | 0 29 | 0 12 | 2 10 | 1 16 | 22 0 | 0 12 | 14 13 | 0 45 | 21 13 | 0 33 | 17 54 | 5 33 | 23 22 | 23 21 | 0 3 | 6 50 | 6 30 |
| M21 | 23 29 | 18 3 | 3 47 | 17 57 | 4 13 | 23 50 | 1 11 | 0 40 | 0 11 | 2 8 | 1 16 | 22 1 | 0 12 | 14 14 | 0 45 | 21 14 | 0 33 | 17 54 | 5 33 | 23 22 | 23 21 | 0 6 | 6 50 | 6 30 |
| T 22 | 23 29 | 14 25 | 4 29 | 18 5 | 4 7 | 23 43 | 1 12 | 0 52 | 0 9 | 2 6 | 1 16 | 22 1 | 0 12 | 14 14 | 0 45 | 21 14 | 0 33 | 17 54 | 5 33 | 23 22 | 23 21 | 0 8 | 6 50 | 6 31 |
| W23 | 23 28 | 10 14 | 4 58 | 18 15 | 4 1 | 23 35 | 1 14 | 1 4 | 0 8 | 2 5 | 1 17 | 22 2 | 0 12 | 14 15 | 0 45 | 21 14 | 0 33 | 17 54 | 5 33 | 23 22 | 23 21 | 0 11 | 6 51 | 6 31 |
| T 24 | 23 28 | 5 44 | 5 14 | 18 26 | 3 53 | 23 27 | 1 15 | 1 16 | 0 7 | 2 3 | 1 17 | 22 3 | 0 12 | 14 15 | 0 45 | 21 14 | 0 33 | 17 54 | 5 33 | 23 22 | 23 22 | 0 14 | 6 51 | 6 31 |
| F 25 | 23 26 | 1 3 | 5 16 | 18 39 | 3 45 | 23 18 | 1 17 | 1 29 | 0 5 | 2 1 | 1 17 | 22 3 | 0 12 | 14 15 | 0 45 | 21 15 | 0 33 | 17 54 | 5 33 | 23 22 | 23 22 | 0 17 | 6 51 | 6 32 |
| S 26 | 23 25 | 3n40 | 5 5 | 18 53 | 3 36 | 23 9 | 1 18 | 1 41 | 0 4 | 2 0 | 1 17 | 22 4 | 0 12 | 14 16 | 0 45 | 21 15 | 0 33 | 17 55 | 5 33 | 23 22 | 23 22 | 0 19 | 6 51 | 6 32 |
| S 27 | 23 22 | 8 17 | 4 40 | 19 8 | 3 26 | 22 58 | 1 20 | 1 53 | 0 3 | 1 59 | 1 18 | 22 4 | 0 12 | 14 16 | 0 45 | 21 15 | 0 33 | 17 55 | 5 33 | 23 22 | 23 22 | 0 22 | 6 52 | 6 32 |
| M28 | 23 20 | 12 38 | 4 3 | 19 23 | 3 16 | 22 47 | 1 21 | 2 6 | 0 1 | 1 57 | 1 18 | 22 5 | 0 12 | 14 17 | 0 45 | 21 15 | 0 33 | 17 55 | 5 33 | 23 22 | 23 22 | 0 25 | 6 52 | 6 32 |
| T 29 | 23 17 | 16 32 | 3 14 | 19 40 | 3 5 | 22 36 | 1 22 | 2 18 | 0s 0 | 1 56 | 1 18 | 22 6 | 0 12 | 14 17 | 0 45 | 21 16 | 0 33 | 17 55 | 5 33 | 23 22 | 23 22 | 0 27 | 6 52 | 6 33 |
| W30 | 23n14 | 19n48 | 2s16 | 19n57 | 2s54 | 22n23 | 1n23 | 2s31 | 0s 1 | 1s55 | 1s19 | 22s 6 | 0n11 | 14s18 | 0s45 | 21s16 | 0n33 | 17n55 | 5s33 | 23n22 | 23n22 | 0n30 | 6s52 | 6n33 |

Julian Day Number = 2329705.5, Delta T = 32.07 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'02, Lahiri = 19°12'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## JULY 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 37 0 | 9♋10'42 | 23♊ 4 | 17♊55 | 27♋ 1 | 6♎45 | 28♓16 | 17°R43 | 23°R51 | 21°R 8 | 27♊19 | 5♋33 | 5♋20 | 13♈16 | 25°R27 | T 1 |
| F 2 | 18 40 56 | 10° 7'55 | 6♋ 8 | 19° 2 | 28°15 | 7°14 | 28°20 | 17♑39 | 23♒49 | 21♑ 7 | 27°21 | 5°R33 | 5°17 | 13°22 | 25♒25 | F 2 |
| S 3 | 18 44 53 | 11° 5'08 | 19°30 | 20°13 | 29°28 | 7°44 | 28°23 | 17°35 | 23°48 | 21° 5 | 27°22 | 5°33 | 5°14 | 13°29 | 25°24 | S 3 |
| S 4 | 18 48 49 | 12° 2'21 | 3♌ 7 | 21°29 | 0♌41 | 8°14 | 28°26 | 17°30 | 23°46 | 21° 4 | 27°24 | 5°33 | 5°11 | 13°36 | 25°22 | S 4 |
| M 5 | 18 52 46 | 12°59'34 | 16°57 | 22°48 | 1°55 | 8°44 | 28°28 | 17°26 | 23°45 | 21° 2 | 27°25 | 5°32 | 5° 7 | 13°42 | 25°20 | M 5 |
| T 6 | 18 56 42 | 13°56'46 | 0♍59 | 24°12 | 3° 8 | 9°14 | 28°31 | 17°21 | 23°43 | 21° 0 | 27°26 | 5°31 | 5° 4 | 13°49 | 25°18 | T 6 |
| W 7 | 19 0 39 | 14°53'59 | 15° 8 | 25°39 | 4°21 | 9°45 | 28°33 | 17°17 | 23°41 | 20°59 | 27°28 | 5°30 | 5° 1 | 13°56 | 25°16 | W 7 |
| T 8 | 19 4 35 | 15°51'12 | 29°22 | 27°11 | 5°35 | 10°15 | 28°35 | 17°13 | 23°40 | 20°57 | 27°29 | 5°29 | 4°58 | 14° 3 | 25°13 | T 8 |
| F 9 | 19 8 32 | 16°48'25 | 13♎37 | 28°46 | 6°48 | 10°46 | 28°37 | 17° 8 | 23°38 | 20°56 | 27°31 | 5°D29 | 4°55 | 14° 9 | 25°11 | F 9 |
| S 10 | 19 12 29 | 17°45'37 | 27°51 | 0♋25 | 8° 1 | 11°17 | 28°39 | 17° 4 | 23°36 | 20°54 | 27°32 | 5°29 | 4°51 | 14°16 | 25° 9 | S 10 |
| S 11 | 19 16 25 | 18°42'50 | 12♏ 1 | 2° 7 | 9°15 | 11°49 | 28°40 | 16°59 | 23°34 | 20°52 | 27°33 | 5°30 | 4°48 | 14°23 | 25° 7 | S 11 |
| M12 | 19 20 22 | 19°40'03 | 26° 5 | 3°53 | 10°28 | 12°20 | 28°42 | 16°55 | 23°32 | 20°51 | 27°35 | 5°31 | 4°45 | 14°29 | 25° 4 | M12 |
| T 13 | 19 24 18 | 20°37'16 | 10♐ 1 | 5°42 | 11°41 | 12°52 | 28°43 | 16°50 | 23°31 | 20°49 | 27°36 | 5°32 | 4°42 | 14°36 | 25° 2 | T 13 |
| W14 | 19 28 15 | 21°34'30 | 23°46 | 7°34 | 12°54 | 13°24 | 28°44 | 16°46 | 23°29 | 20°47 | 27°37 | 5°33 | 4°39 | 14°43 | 25° 0 | W14 |
| T 15 | 19 32 11 | 22°31'44 | 7♑20 | 9°29 | 14° 7 | 13°57 | 28°45 | 16°42 | 23°27 | 20°46 | 27°39 | 5°R33 | 4°36 | 14°50 | 24°57 | T 15 |
| F 16 | 19 36 8 | 23°28'58 | 20°40 | 11°27 | 15°21 | 14°29 | 28°45 | 16°37 | 23°25 | 20°44 | 27°40 | 5°32 | 4°32 | 14°56 | 24°55 | F 16 |
| S 17 | 19 40 4 | 24°26'13 | 3♒45 | 13°27 | 16°34 | 15° 2 | 28°46 | 16°33 | 23°23 | 20°43 | 27°42 | 5°31 | 4°29 | 15° 3 | 24°52 | S 17 |
| S 18 | 19 44 1 | 25°23'29 | 16°34 | 15°28 | 17°47 | 15°34 | 28°R46 | 16°29 | 23°21 | 20°41 | 27°43 | 5°29 | 4°26 | 15°10 | 24°50 | S 18 |
| M19 | 19 47 58 | 26°20'45 | 29° 8 | 17°32 | 19° 0 | 16° 7 | 28°46 | 16°24 | 23°19 | 20°39 | 27°44 | 5°26 | 4°23 | 15°17 | 24°47 | M19 |
| T 20 | 19 51 54 | 27°18'02 | 11♓28 | 19°36 | 20°13 | 16°40 | 28°46 | 16°20 | 23°17 | 20°38 | 27°45 | 5°22 | 4°20 | 15°23 | 24°45 | T 20 |
| W21 | 19 55 51 | 28°15'19 | 23°37 | 21°42 | 21°26 | 17°14 | 28°45 | 16°16 | 23°15 | 20°36 | 27°47 | 5°19 | 4°17 | 15°30 | 24°42 | W21 |
| T 22 | 19 59 47 | 29°12'38 | 5♈36 | 23°48 | 22°39 | 17°47 | 28°45 | 16°11 | 23°13 | 20°34 | 27°48 | 5°16 | 4°13 | 15°37 | 24°39 | T 22 |
| F 23 | 20 3 44 | 0♌ 9'57 | 17°30 | 25°54 | 23°53 | 18°21 | 28°44 | 16° 7 | 23°10 | 20°33 | 27°49 | 5°15 | 4°10 | 15°43 | 24°37 | F 23 |
| S 24 | 20 7 40 | 1° 7'18 | 29°23 | 28° 1 | 25° 6 | 18°55 | 28°43 | 16° 3 | 23° 8 | 20°31 | 27°50 | 5°D14 | 4° 7 | 15°50 | 24°34 | S 24 |
| S 25 | 20 11 37 | 2° 4'40 | 11♉20 | 0♌ 7 | 26°19 | 19°29 | 28°42 | 15°59 | 23° 6 | 20°30 | 27°52 | 5°14 | 4° 4 | 15°57 | 24°31 | S 25 |
| M26 | 20 15 33 | 3° 2'03 | 23°25 | 2°13 | 27°32 | 20° 3 | 28°40 | 15°55 | 23° 4 | 20°28 | 27°53 | 5°15 | 4° 1 | 16° 4 | 24°28 | M26 |
| T 27 | 20 19 30 | 3°59'27 | 5♊43 | 4°18 | 28°45 | 20°38 | 28°39 | 15°51 | 23° 2 | 20°27 | 27°54 | 5°17 | 3°57 | 16°10 | 24°26 | T 27 |
| W28 | 20 23 27 | 4°56'52 | 18°18 | 6°23 | 29°58 | 21°12 | 28°37 | 15°47 | 23° 0 | 20°25 | 27°55 | 5°19 | 3°54 | 16°17 | 24°23 | W28 |
| T 29 | 20 27 23 | 5°54'18 | 1♋14 | 8°26 | 1♍11 | 21°47 | 28°35 | 15°42 | 22°57 | 20°23 | 27°57 | 5°R19 | 3°51 | 16°24 | 24°20 | T 29 |
| F 30 | 20 31 20 | 6°51'46 | 14°32 | 10°29 | 2°24 | 22°22 | 28°33 | 15°39 | 22°55 | 20°22 | 27°58 | 5°19 | 3°48 | 16°30 | 24°17 | F 30 |
| S 31 | 20 35 16 | 7♌49'14 | 28♋12 | 12♌30 | 3♍37 | 22♎57 | 28♓31 | 15♑35 | 22♒53 | 20♑20 | 27♊59 | 5♋17 | 3♋45 | 16♈37 | 24♒14 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n10 | 22n 9 | 1s 9 | 20n14 | 2s43 | 22n10 | 1n25 | 2s43 | 0s 3 | 1s54 | 1s19 | 22s 7 | 0n11 | 14s18 | 0s45 | 21s16 | 0n33 | 17n55 | 5s33 | 23n22 | 23n22 | 0n33 | 6s53 | 6n33 |
| F 2 | 23 6 | 23 24 | 0n 3 | 20 32 | 2 30 | 21 57 | 1 26 | 2 56 | 0 4 | 1 53 | 1 19 | 22 8 | 0 11 | 14 19 | 0 45 | 21 16 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 36 | 6 53 | 6 34 |
| S 3 | 23 1 | 23 19 | 1 16 | 20 50 | 2 18 | 21 43 | 1 27 | 3 9 | 0 5 | 1 52 | 1 20 | 22 8 | 0 11 | 14 19 | 0 45 | 21 17 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 38 | 6 53 | 6 34 |
| S 4 | 22 56 | 21 53 | 2 27 | 21 7 | 2 5 | 21 28 | 1 28 | 3 22 | 0 6 | 1 51 | 1 20 | 22 9 | 0 11 | 14 20 | 0 45 | 21 17 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 41 | 6 54 | 6 34 |
| M 5 | 22 51 | 19 7 | 3 30 | 21 25 | 1 53 | 21 12 | 1 29 | 3 35 | 0 7 | 1 50 | 1 20 | 22 10 | 0 11 | 14 20 | 0 45 | 21 17 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 44 | 6 54 | 6 34 |
| T 6 | 22 45 | 15 12 | 4 21 | 21 42 | 1 40 | 20 56 | 1 29 | 3 48 | 0 9 | 1 49 | 1 20 | 22 10 | 0 11 | 14 21 | 0 45 | 21 17 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 46 | 6 55 | 6 35 |
| W 7 | 22 39 | 10 25 | 4 57 | 21 58 | 1 26 | 20 40 | 1 30 | 4 1 | 0 10 | 1 49 | 1 21 | 22 11 | 0 11 | 14 22 | 0 45 | 21 18 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 49 | 6 55 | 6 35 |
| T 8 | 22 32 | 5 4 | 5 14 | 22 14 | 1 13 | 20 23 | 1 31 | 4 14 | 0 11 | 1 48 | 1 21 | 22 12 | 0 11 | 14 22 | 0 45 | 21 18 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 52 | 6 56 | 6 35 |
| F 9 | 22 25 | 0s34 | 5 13 | 22 29 | 1 0 | 20 5 | 1 31 | 4 27 | 0 12 | 1 48 | 1 21 | 22 12 | 0 11 | 14 23 | 0 45 | 21 18 | 0 33 | 17 55 | 5 32 | 23 22 | 23 23 | 0 55 | 6 56 | 6 35 |
| S 10 | 22 18 | 6 10 | 4 53 | 22 42 | 0 47 | 19 47 | 1 32 | 4 41 | 0 13 | 1 47 | 1 22 | 22 13 | 0 11 | 14 23 | 0 45 | 21 18 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 0 57 | 6 57 | 6 35 |
| S 11 | 22 10 | 11 26 | 4 14 | 22 54 | 0 34 | 19 28 | 1 33 | 4 54 | 0 14 | 1 47 | 1 22 | 22 14 | 0 11 | 14 24 | 0 45 | 21 19 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 0 | 6 57 | 6 36 |
| M12 | 22 2 | 16 3 | 3 21 | 23 4 | 0 21 | 19 8 | 1 33 | 5 7 | 0 16 | 1 47 | 1 22 | 22 14 | 0 10 | 14 25 | 0 45 | 21 19 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 3 | 6 58 | 6 36 |
| T 13 | 21 54 | 19 44 | 2 16 | 23 12 | 0 9 | 18 48 | 1 33 | 5 21 | 0 17 | 1 46 | 1 23 | 22 15 | 0 10 | 14 25 | 0 45 | 21 19 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 5 | 6 58 | 6 36 |
| W14 | 21 45 | 22 16 | 1 5 | 23 19 | 0n 3 | 18 28 | 1 34 | 5 34 | 0 18 | 1 46 | 1 23 | 22 15 | 0 10 | 14 26 | 0 45 | 21 19 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 8 | 6 59 | 6 36 |
| T 15 | 21 36 | 23 27 | 0s10 | 23 23 | 0 14 | 18 7 | 1 34 | 5 48 | 0 19 | 1 46 | 1 23 | 22 16 | 0 10 | 14 27 | 0 45 | 21 20 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 11 | 7 0 | 6 36 |
| F 16 | 21 26 | 23 15 | 1 22 | 23 25 | 0 26 | 17 46 | 1 34 | 6 1 | 0 20 | 1 46 | 1 24 | 22 17 | 0 10 | 14 27 | 0 45 | 21 20 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 14 | 7 0 | 6 37 |
| S 17 | 21 16 | 21 46 | 2 29 | 23 24 | 0 36 | 17 24 | 1 34 | 6 15 | 0 21 | 1 47 | 1 24 | 22 17 | 0 10 | 14 28 | 0 45 | 21 20 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 16 | 7 1 | 6 37 |
| S 18 | 21 6 | 19 11 | 3 27 | 23 21 | 0 46 | 17 1 | 1 34 | 6 29 | 0 22 | 1 47 | 1 24 | 22 18 | 0 10 | 14 29 | 0 45 | 21 20 | 0 33 | 17 55 | 5 32 | 23 22 | 23 24 | 1 19 | 7 2 | 6 37 |
| M19 | 20 55 | 15 45 | 4 13 | 23 15 | 0 55 | 16 39 | 1 34 | 6 42 | 0 23 | 1 47 | 1 24 | 22 19 | 0 10 | 14 29 | 0 45 | 21 21 | 0 33 | 17 55 | 5 32 | 23 22 | 23 25 | 1 22 | 7 2 | 6 37 |
| T 20 | 20 44 | 11 42 | 4 47 | 23 6 | 1 4 | 16 15 | 1 34 | 6 56 | 0 24 | 1 47 | 1 25 | 22 19 | 0 10 | 14 30 | 0 46 | 21 21 | 0 33 | 17 55 | 5 32 | 23 22 | 23 25 | 1 25 | 7 3 | 6 37 |
| W21 | 20 33 | 7 15 | 5 7 | 22 54 | 1 11 | 15 52 | 1 34 | 7 10 | 0 25 | 1 48 | 1 25 | 22 20 | 0 10 | 14 31 | 0 46 | 21 21 | 0 33 | 17 55 | 5 32 | 23 23 | 23 25 | 1 27 | 7 4 | 6 37 |
| T 22 | 20 21 | 2 34 | 5 14 | 22 40 | 1 18 | 15 27 | 1 33 | 7 24 | 0 26 | 1 48 | 1 25 | 22 20 | 0 10 | 14 31 | 0 46 | 21 21 | 0 33 | 17 55 | 5 32 | 23 23 | 23 25 | 1 30 | 7 4 | 6 38 |
| F 23 | 20 9 | 2n 9 | 5 7 | 22 23 | 1 25 | 15 3 | 1 33 | 7 37 | 0 27 | 1 49 | 1 26 | 22 21 | 0 9 | 14 32 | 0 46 | 21 22 | 0 33 | 17 55 | 5 32 | 23 23 | 23 25 | 1 33 | 7 5 | 6 38 |
| S 24 | 19 57 | 6 48 | 4 47 | 22 4 | 1 30 | 14 38 | 1 33 | 7 51 | 0 28 | 1 50 | 1 26 | 22 22 | 0 9 | 14 33 | 0 46 | 21 22 | 0 33 | 17 55 | 5 32 | 23 23 | 23 25 | 1 35 | 7 6 | 6 38 |
| S 25 | 19 44 | 11 14 | 4 14 | 21 42 | 1 35 | 14 13 | 1 32 | 8 5 | 0 29 | 1 50 | 1 26 | 22 22 | 0 9 | 14 34 | 0 46 | 21 22 | 0 33 | 17 55 | 5 32 | 23 23 | 23 25 | 1 38 | 7 7 | 6 38 |
| M26 | 19 31 | 15 17 | 3 30 | 21 18 | 1 39 | 13 47 | 1 32 | 8 19 | 0 30 | 1 51 | 1 27 | 22 23 | 0 9 | 14 34 | 0 46 | 21 22 | 0 33 | 17 55 | 5 32 | 23 23 | 23 25 | 1 41 | 7 7 | 6 38 |
| T 27 | 19 18 | 18 45 | 2 35 | 20 52 | 1 42 | 13 21 | 1 31 | 8 33 | 0 31 | 1 52 | 1 27 | 22 23 | 0 9 | 14 35 | 0 46 | 21 23 | 0 33 | 17 55 | 5 33 | 23 23 | 23 25 | 1 44 | 7 8 | 6 38 |
| W28 | 19 4 | 21 27 | 1 32 | 20 23 | 1 44 | 12 55 | 1 30 | 8 47 | 0 32 | 1 53 | 1 27 | 22 24 | 0 9 | 14 36 | 0 46 | 21 23 | 0 33 | 17 55 | 5 33 | 23 23 | 23 25 | 1 46 | 7 9 | 6 38 |
| T 29 | 18 50 | 23 6 | 0 22 | 19 53 | 1 46 | 12 28 | 1 29 | 9 1 | 0 33 | 1 54 | 1 27 | 22 25 | 0 9 | 14 37 | 0 46 | 21 23 | 0 33 | 17 55 | 5 33 | 23 23 | 23 26 | 1 49 | 7 10 | 6 38 |
| F 30 | 18 35 | 23 31 | 0n50 | 19 21 | 1 46 | 12 1 | 1 29 | 9 14 | 0 34 | 1 55 | 1 28 | 22 25 | 0 9 | 14 37 | 0 46 | 21 23 | 0 33 | 17 55 | 5 33 | 23 23 | 23 26 | 1 52 | 7 11 | 6 38 |
| S 31 | 18n21 | 22n33 | 2n 2 | 18n47 | 1n47 | 11n34 | 1n28 | 9s28 | 0s34 | 1s56 | 1s28 | 22s26 | 0n 9 | 14s38 | 0s46 | 21s24 | 0n33 | 17n55 | 5s33 | 23n23 | 23n26 | 1n55 | 7s12 | 6n39 |

Julian Day Number = 2329735.5, Delta T = 32.02 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'07, Lahiri = 19°12'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## AUGUST 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 39 13 | 8♌46'44 | 12♌13 | 14♌29 | 4♍50 | 23♎32 | 28°R28 | 15°R31 | 22°R51 | 20°R19 | 28♊ 0 | 5°R14 | 3♋42 | 16♈44 | 24°R11 | S 1 |
| M 2 | 20 43 9 | 9°44'14 | 26°31 | 16°28 | 6° 2 | 24° 8 | 28♓25 | 15♑27 | 22♒48 | 20♑17 | 28° 1 | 5♋10 | 3°38 | 16°51 | 24♒ 8 | M 2 |
| T 3 | 20 47 6 | 10°41'46 | 11♍ 0 | 18°25 | 7°15 | 24°44 | 28°22 | 15°23 | 22°46 | 20°16 | 28° 2 | 5° 4 | 3°35 | 16°57 | 24° 5 | T 3 |
| W 4 | 20 51 2 | 11°39'18 | 25°35 | 20°20 | 8°28 | 25°19 | 28°19 | 15°19 | 22°44 | 20°14 | 28° 3 | 4°59 | 3°32 | 17° 4 | 24° 3 | W 4 |
| T 5 | 20 54 59 | 12°36'51 | 10♎ 8 | 22°14 | 9°41 | 25°55 | 28°16 | 15°16 | 22°41 | 20°13 | 28° 5 | 4°55 | 3°29 | 17°11 | 24° 0 | T 5 |
| F 6 | 20 58 56 | 13°34'25 | 24°35 | 24° 7 | 10°54 | 26°31 | 28°12 | 15°12 | 22°39 | 20°11 | 28° 6 | 4°52 | 3°26 | 17°18 | 23°57 | F 6 |
| S 7 | 21 2 52 | 14°32'00 | 8♏51 | 25°58 | 12° 7 | 27° 7 | 28° 9 | 15° 8 | 22°37 | 20°10 | 28° 7 | 4°D50 | 3°23 | 17°24 | 23°54 | S 7 |
| S 8 | 21 6 49 | 15°29'36 | 22°54 | 27°47 | 13°20 | 27°44 | 28° 5 | 15° 5 | 22°34 | 20° 9 | 28° 8 | 4°51 | 3°19 | 17°31 | 23°51 | S 8 |
| M 9 | 21 10 45 | 16°27'13 | 6♐43 | 29°35 | 14°32 | 28°20 | 28° 1 | 15° 1 | 22°32 | 20° 7 | 28° 9 | 4°52 | 3°16 | 17°38 | 23°47 | M 9 |
| T 10 | 21 14 42 | 17°24'51 | 20°18 | 1♍22 | 15°45 | 28°57 | 27°57 | 14°58 | 22°29 | 20° 6 | 28°10 | 4°53 | 3°13 | 17°44 | 23°44 | T 10 |
| W11 | 21 18 38 | 18°22'30 | 3♑40 | 3° 7 | 16°58 | 29°34 | 27°52 | 14°55 | 22°27 | 20° 4 | 28°11 | 4°R54 | 3°10 | 17°51 | 23°41 | W11 |
| T 12 | 21 22 35 | 19°20'10 | 16°49 | 4°50 | 18°10 | 0♏11 | 27°48 | 14°52 | 22°25 | 20° 3 | 28°12 | 4°53 | 3° 7 | 17°58 | 23°38 | T 12 |
| F 13 | 21 26 31 | 20°17'51 | 29°47 | 6°32 | 19°23 | 0°48 | 27°43 | 14°48 | 22°22 | 20° 2 | 28°13 | 4°50 | 3° 3 | 18° 5 | 23°35 | F 13 |
| S 14 | 21 30 28 | 21°15'34 | 12♒33 | 8°13 | 20°36 | 1°25 | 27°38 | 14°45 | 22°20 | 20° 0 | 28°14 | 4°46 | 3° 0 | 18°11 | 23°32 | S 14 |
| S 15 | 21 34 25 | 22°13'18 | 25° 7 | 9°52 | 21°48 | 2° 2 | 27°33 | 14°42 | 22°17 | 19°59 | 28°15 | 4°39 | 2°57 | 18°18 | 23°29 | S 15 |
| M16 | 21 38 21 | 23°11'03 | 7♓31 | 11°30 | 23° 1 | 2°40 | 27°28 | 14°39 | 22°15 | 19°58 | 28°16 | 4°31 | 2°54 | 18°25 | 23°26 | M16 |
| T 17 | 21 42 18 | 24° 8'49 | 19°44 | 13° 7 | 24°14 | 3°18 | 27°22 | 14°36 | 22°13 | 19°56 | 28°17 | 4°21 | 2°51 | 18°31 | 23°23 | T 17 |
| W18 | 21 46 14 | 25° 6'37 | 1♈47 | 14°42 | 25°26 | 3°55 | 27°17 | 14°33 | 22°10 | 19°55 | 28°17 | 4°12 | 2°48 | 18°38 | 23°20 | W18 |
| T 19 | 21 50 11 | 26° 4'27 | 13°44 | 16°15 | 26°39 | 4°33 | 27°11 | 14°31 | 22° 8 | 19°54 | 28°18 | 4° 4 | 2°44 | 18°45 | 23°17 | T 19 |
| F 20 | 21 54 7 | 27° 2'19 | 25°36 | 17°48 | 27°51 | 5°11 | 27° 5 | 14°28 | 22° 6 | 19°53 | 28°19 | 3°58 | 2°41 | 18°52 | 23°14 | F 20 |
| S 21 | 21 58 4 | 28° 0'12 | 7♉28 | 19°18 | 29° 3 | 5°49 | 26°59 | 14°25 | 22° 3 | 19°51 | 28°20 | 3°53 | 2°38 | 18°58 | 23°11 | S 21 |
| S 22 | 22 2 0 | 28°58'07 | 19°22 | 20°48 | 0♎16 | 6°28 | 26°53 | 14°23 | 22° 1 | 19°50 | 28°21 | 3°51 | 2°35 | 19° 5 | 23° 8 | S 22 |
| M23 | 22 5 57 | 29°56'04 | 1♊25 | 22°16 | 1°28 | 7° 6 | 26°47 | 14°20 | 21°58 | 19°49 | 28°22 | 3°D50 | 2°32 | 19°12 | 23° 5 | M23 |
| T 24 | 22 9 54 | 0♍54'03 | 13°41 | 23°43 | 2°41 | 7°45 | 26°41 | 14°18 | 21°56 | 19°48 | 28°22 | 3°51 | 2°29 | 19°18 | 23° 2 | T 24 |
| W25 | 22 13 50 | 1°52'04 | 26°14 | 25° 8 | 3°53 | 8°23 | 26°34 | 14°16 | 21°54 | 19°47 | 28°23 | 3°52 | 2°25 | 19°25 | 22°59 | W25 |
| T 26 | 22 17 47 | 2°50'06 | 9♋11 | 26°32 | 5° 5 | 9° 2 | 26°28 | 14°14 | 21°51 | 19°46 | 28°24 | 3°R52 | 2°22 | 19°32 | 22°56 | T 26 |
| F 27 | 22 21 43 | 3°48'11 | 22°34 | 27°54 | 6°18 | 9°41 | 26°21 | 14°12 | 21°49 | 19°45 | 28°25 | 3°50 | 2°19 | 19°39 | 22°53 | F 27 |
| S 28 | 22 25 40 | 4°46'17 | 6♌24 | 29°15 | 7°30 | 10°20 | 26°14 | 14°10 | 21°47 | 19°44 | 28°25 | 3°46 | 2°16 | 19°45 | 22°50 | S 28 |
| S 29 | 22 29 36 | 5°44'26 | 20°40 | 0♎34 | 8°42 | 10°59 | 26° 7 | 14° 8 | 21°44 | 19°43 | 28°26 | 3°40 | 2°13 | 19°52 | 22°47 | S 29 |
| M30 | 22 33 33 | 6°42'36 | 5♍19 | 1°52 | 9°54 | 11°38 | 26° 0 | 14° 6 | 21°42 | 19°42 | 28°27 | 3°32 | 2° 9 | 19°59 | 22°44 | M30 |
| T 31 | 22 37 29 | 7♍40'47 | 20♍12 | 3♎ 8 | 11♎ 6 | 12♏18 | 25♓53 | 14♑ 4 | 21♒40 | 19♑41 | 28♊27 | 3♋22 | 2♋ 6 | 20♈ 5 | 22♒41 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 6 | 20n10 | 3n 8 | 18n12 | 1n46 | 11n 6 | 1n27 | 9s42 | 0s35 | 1s58 | 1s28 | 22s26 | 0n 9 | 14s39 | 0s46 | 21s24 | 0n33 | 17n55 | 5s33 | 23n23 | 23n26 | 1n57 | 7s12 | 6n39 |
| M 2 | 17 51 | 16 30 | 4 3 | 17 36 | 1 45 | 10 38 | 1 25 | 9 56 | 0 36 | 1 59 | 1 29 | 22 27 | 0 9 | 14 40 | 0 46 | 21 24 | 0 33 | 17 55 | 5 33 | 23 23 | 23 26 | 2 0 | 7 13 | 6 39 |
| T 3 | 17 35 | 11 49 | 4 44 | 16 58 | 1 43 | 10 10 | 1 24 | 10 10 | 0 37 | 2 0 | 1 29 | 22 27 | 0 8 | 14 40 | 0 46 | 21 24 | 0 33 | 17 55 | 5 33 | 23 23 | 23 26 | 2 3 | 7 14 | 6 39 |
| W 4 | 17 19 | 6 26 | 5 6 | 16 20 | 1 41 | 9 41 | 1 23 | 10 24 | 0 38 | 2 2 | 1 29 | 22 28 | 0 8 | 14 41 | 0 46 | 21 25 | 0 33 | 17 55 | 5 33 | 23 23 | 23 26 | 2 6 | 7 15 | 6 39 |
| T 5 | 17 3 | 0 43 | 5 9 | 15 40 | 1 38 | 9 13 | 1 22 | 10 38 | 0 39 | 2 4 | 1 29 | 22 28 | 0 8 | 14 42 | 0 46 | 21 25 | 0 33 | 17 55 | 5 33 | 23 23 | 23 26 | 2 8 | 7 16 | 6 39 |
| F 6 | 16 47 | 5s 0 | 4 52 | 15 0 | 1 35 | 8 44 | 1 20 | 10 52 | 0 40 | 2 5 | 1 30 | 22 29 | 0 8 | 14 43 | 0 46 | 21 25 | 0 33 | 17 55 | 5 33 | 23 24 | 23 26 | 2 11 | 7 17 | 6 39 |
| S 7 | 16 30 | 10 24 | 4 18 | 14 19 | 1 31 | 8 15 | 1 19 | 11 6 | 0 40 | 2 7 | 1 30 | 22 29 | 0 8 | 14 43 | 0 46 | 21 25 | 0 33 | 17 55 | 5 33 | 23 24 | 23 26 | 2 14 | 7 18 | 6 39 |
| S 8 | 16 13 | 15 11 | 3 28 | 13 37 | 1 27 | 7 45 | 1 17 | 11 20 | 0 41 | 2 9 | 1 30 | 22 30 | 0 8 | 14 44 | 0 46 | 21 26 | 0 33 | 17 55 | 5 33 | 23 24 | 23 26 | 2 17 | 7 19 | 6 39 |
| M 9 | 15 56 | 19 4 | 2 27 | 12 55 | 1 22 | 7 16 | 1 16 | 11 33 | 0 42 | 2 10 | 1 31 | 22 30 | 0 8 | 14 45 | 0 46 | 21 26 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 19 | 7 20 | 6 39 |
| T 10 | 15 39 | 21 50 | 1 18 | 12 13 | 1 17 | 6 46 | 1 14 | 11 47 | 0 43 | 2 12 | 1 31 | 22 31 | 0 8 | 14 46 | 0 46 | 21 26 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 22 | 7 21 | 6 39 |
| W11 | 15 21 | 23 19 | 0 7 | 11 30 | 1 12 | 6 16 | 1 12 | 12 1 | 0 44 | 2 14 | 1 31 | 22 31 | 0 8 | 14 47 | 0 46 | 21 26 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 25 | 7 22 | 6 39 |
| T 12 | 15 3 | 23 29 | 1s 4 | 10 47 | 1 6 | 5 46 | 1 11 | 12 15 | 0 44 | 2 16 | 1 31 | 22 32 | 0 8 | 14 47 | 0 46 | 21 27 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 28 | 7 23 | 6 39 |
| F 13 | 14 45 | 22 21 | 2 10 | 10 3 | 1 0 | 5 16 | 1 9 | 12 29 | 0 45 | 2 19 | 1 32 | 22 32 | 0 8 | 14 48 | 0 46 | 21 27 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 30 | 7 24 | 6 39 |
| S 14 | 14 26 | 20 5 | 3 9 | 9 20 | 0 54 | 4 45 | 1 7 | 12 42 | 0 46 | 2 21 | 1 32 | 22 32 | 0 7 | 14 49 | 0 46 | 21 27 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 33 | 7 25 | 6 39 |
| S 15 | 14 8 | 16 53 | 3 57 | 8 36 | 0 47 | 4 15 | 1 5 | 12 56 | 0 47 | 2 23 | 1 32 | 22 33 | 0 7 | 14 50 | 0 46 | 21 27 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 36 | 7 26 | 6 39 |
| M16 | 13 49 | 12 59 | 4 33 | 7 53 | 0 40 | 3 44 | 1 3 | 13 10 | 0 47 | 2 25 | 1 32 | 22 33 | 0 7 | 14 50 | 0 46 | 21 27 | 0 33 | 17 55 | 5 33 | 23 24 | 23 27 | 2 39 | 7 27 | 6 39 |
| T 17 | 13 30 | 8 37 | 4 56 | 7 9 | 0 33 | 3 14 | 1 1 | 13 23 | 0 48 | 2 28 | 1 32 | 22 34 | 0 7 | 14 51 | 0 46 | 21 28 | 0 33 | 17 55 | 5 33 | 23 25 | 23 27 | 2 41 | 7 28 | 6 39 |
| W18 | 13 10 | 3 58 | 5 6 | 6 26 | 0 25 | 2 43 | 0 58 | 13 37 | 0 49 | 2 30 | 1 33 | 22 34 | 0 7 | 14 52 | 0 46 | 21 28 | 0 33 | 17 55 | 5 33 | 23 25 | 23 27 | 2 44 | 7 29 | 6 39 |
| T 19 | 12 51 | 0n48 | 5 2 | 5 42 | 0 18 | 2 12 | 0 56 | 13 50 | 0 50 | 2 32 | 1 33 | 22 35 | 0 7 | 14 53 | 0 46 | 21 28 | 0 33 | 17 55 | 5 33 | 23 25 | 23 27 | 2 47 | 7 30 | 6 39 |
| F 20 | 12 31 | 5 30 | 4 45 | 4 59 | 0 10 | 1 41 | 0 54 | 14 4 | 0 50 | 2 35 | 1 33 | 22 35 | 0 7 | 14 54 | 0 46 | 21 28 | 0 33 | 17 55 | 5 34 | 23 25 | 23 27 | 2 50 | 7 31 | 6 39 |
| S 21 | 12 11 | 10 0 | 4 16 | 4 16 | 0 2 | 1 10 | 0 51 | 14 17 | 0 51 | 2 38 | 1 33 | 22 35 | 0 7 | 14 54 | 0 46 | 21 28 | 0 33 | 17 55 | 5 34 | 23 26 | 23 27 | 2 52 | 7 32 | 6 38 |
| S 22 | 11 51 | 14 9 | 3 35 | 3 34 | 0s 6 | 0 39 | 0 49 | 14 31 | 0 52 | 2 40 | 1 34 | 22 36 | 0 7 | 14 55 | 0 46 | 21 29 | 0 33 | 17 55 | 5 34 | 23 26 | 23 27 | 2 55 | 7 33 | 6 38 |
| M23 | 11 31 | 17 48 | 2 45 | 2 51 | 0 14 | 0 8 | 0 47 | 14 44 | 0 52 | 2 43 | 1 34 | 22 36 | 0 7 | 14 56 | 0 46 | 21 29 | 0 33 | 17 55 | 5 34 | 23 26 | 23 28 | 2 58 | 7 34 | 6 38 |
| T 24 | 11 10 | 20 44 | 1 46 | 2 9 | 0 22 | 0s24 | 0 44 | 14 57 | 0 53 | 2 46 | 1 34 | 22 36 | 0 6 | 14 57 | 0 46 | 21 29 | 0 33 | 17 55 | 5 34 | 23 26 | 23 28 | 3 1 | 7 35 | 6 38 |
| W25 | 10 50 | 22 45 | 0 41 | 1 28 | 0 31 | 0 55 | 0 41 | 15 10 | 0 54 | 2 48 | 1 34 | 22 37 | 0 6 | 14 57 | 0 46 | 21 29 | 0 32 | 17 55 | 5 34 | 23 26 | 23 28 | 3 3 | 7 36 | 6 38 |
| T 26 | 10 29 | 23 38 | 0n28 | 0 47 | 0 39 | 1 26 | 0 39 | 15 24 | 0 54 | 2 51 | 1 34 | 22 37 | 0 6 | 14 58 | 0 46 | 21 29 | 0 32 | 17 55 | 5 34 | 23 26 | 23 28 | 3 6 | 7 37 | 6 38 |
| F 27 | 10 8 | 23 12 | 1 38 | 0 6 | 0 48 | 1 57 | 0 36 | 15 37 | 0 55 | 2 54 | 1 35 | 22 37 | 0 6 | 14 59 | 0 46 | 21 30 | 0 32 | 17 54 | 5 34 | 23 26 | 23 28 | 3 9 | 7 39 | 6 38 |
| S 28 | 9 47 | 21 22 | 2 44 | 0s34 | 0 57 | 2 28 | 0 33 | 15 50 | 0 56 | 2 57 | 1 35 | 22 38 | 0 6 | 15 0 | 0 46 | 21 30 | 0 32 | 17 54 | 5 34 | 23 26 | 23 28 | 3 12 | 7 40 | 6 38 |
| S 29 | 9 25 | 18 8 | 3 42 | 1 14 | 1 5 | 2 59 | 0 30 | 16 2 | 0 56 | 3 0 | 1 35 | 22 38 | 0 6 | 15 0 | 0 46 | 21 30 | 0 32 | 17 54 | 5 34 | 23 26 | 23 28 | 3 14 | 7 41 | 6 37 |
| M30 | 9 4 | 13 43 | 4 27 | 1 53 | 1 14 | 3 30 | 0 28 | 16 15 | 0 57 | 3 3 | 1 35 | 22 38 | 0 6 | 15 1 | 0 46 | 21 30 | 0 32 | 17 54 | 5 34 | 23 26 | 23 28 | 3 17 | 7 42 | 6 37 |
| T 31 | 8n42 | 8n24 | 4n55 | 2s31 | 1s23 | 4s 1 | 0n25 | 16s28 | 0s57 | 3s 6 | 1s35 | 22s39 | 0n 6 | 15s 2 | 0s46 | 21s30 | 0n32 | 17n54 | 5s34 | 23n26 | 23n28 | 3n20 | 7s43 | 6n37 |

Julian Day Number = 2329766.5, Delta T = 31.96 sec
Ecliptic obliquity = 23°28'57, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'11, Lahiri = 19°12'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## SEPTEMBER 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 41 26 | 8♍39'01 | 5♎12 | 4♎22 | 12♎19 | 12♏57 | 25°R46 | 14°R 2 | 21°R38 | 19°R40 | 28♊28 | 3°R13 | 2♋ 3 | 20♈12 | 22°R38 | W 1 |
| T 2 | 22 45 23 | 9°37'16 | 20° 9 | 5°35 | 13°31 | 13°37 | 25♓38 | 14♑ 1 | 21♒35 | 19♑39 | 28°28 | 3♋ 4 | 2° 0 | 20°19 | 22♒35 | T 2 |
| F 3 | 22 49 19 | 10°35'32 | 4♏54 | 6°45 | 14°43 | 14°17 | 25°31 | 13°59 | 21°33 | 19°38 | 28°29 | 2°58 | 1°57 | 20°26 | 22°32 | F 3 |
| S 4 | 22 53 16 | 11°33'50 | 19°22 | 7°54 | 15°55 | 14°57 | 25°23 | 13°58 | 21°31 | 19°37 | 28°30 | 2°53 | 1°54 | 20°32 | 22°29 | S 4 |
| S 5 | 22 57 12 | 12°32'10 | 3♐29 | 9° 1 | 17° 7 | 15°37 | 25°16 | 13°57 | 21°29 | 19°36 | 28°30 | 2°52 | 1°50 | 20°39 | 22°27 | S 5 |
| M 6 | 23 1 9 | 13°30'31 | 17°14 | 10° 5 | 18°19 | 16°17 | 25° 8 | 13°55 | 21°27 | 19°36 | 28°31 | 2°D51 | 1°47 | 20°46 | 22°24 | M 6 |
| T 7 | 23 5 5 | 14°28'54 | 0♑39 | 11° 8 | 19°31 | 16°57 | 25° 0 | 13°54 | 21°24 | 19°35 | 28°31 | 2°R52 | 1°44 | 20°52 | 22°21 | T 7 |
| W 8 | 23 9 2 | 15°27'18 | 13°47 | 12° 7 | 20°42 | 17°37 | 24°52 | 13°53 | 21°22 | 19°34 | 28°32 | 2°51 | 1°41 | 20°59 | 22°18 | W 8 |
| T 9 | 23 12 58 | 16°25'44 | 26°39 | 13° 4 | 21°54 | 18°18 | 24°45 | 13°52 | 21°20 | 19°33 | 28°32 | 2°49 | 1°38 | 21° 6 | 22°16 | T 9 |
| F 10 | 23 16 55 | 17°24'12 | 9♒18 | 13°59 | 23° 6 | 18°58 | 24°37 | 13°52 | 21°18 | 19°33 | 28°32 | 2°44 | 1°34 | 21°13 | 22°13 | F 10 |
| S 11 | 23 20 52 | 18°22'41 | 21°47 | 14°50 | 24°18 | 19°39 | 24°29 | 13°51 | 21°16 | 19°32 | 28°33 | 2°37 | 1°31 | 21°19 | 22°10 | S 11 |
| S 12 | 23 24 48 | 19°21'13 | 4♓ 6 | 15°38 | 25°30 | 20°20 | 24°21 | 13°50 | 21°14 | 19°31 | 28°33 | 2°26 | 1°28 | 21°26 | 22° 8 | S 12 |
| M13 | 23 28 45 | 20°19'45 | 16°18 | 16°23 | 26°41 | 21° 1 | 24°13 | 13°50 | 21°12 | 19°31 | 28°34 | 2°14 | 1°25 | 21°33 | 22° 5 | M13 |
| T 14 | 23 32 41 | 21°18'20 | 28°22 | 17° 4 | 27°53 | 21°42 | 24° 5 | 13°49 | 21°10 | 19°30 | 28°34 | 2° 0 | 1°22 | 21°39 | 22° 3 | T 14 |
| W15 | 23 36 38 | 22°16'57 | 10♈20 | 17°40 | 29° 4 | 22°23 | 23°57 | 13°49 | 21° 8 | 19°30 | 28°34 | 1°46 | 1°19 | 21°46 | 22° 0 | W15 |
| T 16 | 23 40 34 | 23°15'36 | 22°14 | 18°13 | 0♏16 | 23° 4 | 23°49 | 13°49 | 21° 6 | 19°29 | 28°35 | 1°34 | 1°15 | 21°53 | 21°58 | T 16 |
| F 17 | 23 44 31 | 24°14'17 | 4♉ 4 | 18°41 | 1°27 | 23°45 | 23°41 | 13°49 | 21° 4 | 19°29 | 28°35 | 1°23 | 1°12 | 22° 0 | 21°55 | F 17 |
| S 18 | 23 48 27 | 25°13'00 | 15°55 | 19° 4 | 2°39 | 24°27 | 23°33 | 13°D49 | 21° 3 | 19°28 | 28°35 | 1°15 | 1° 9 | 22° 6 | 21°53 | S 18 |
| S 19 | 23 52 24 | 26°11'45 | 27°48 | 19°21 | 3°50 | 25° 8 | 23°25 | 13°49 | 21° 1 | 19°28 | 28°35 | 1°10 | 1° 6 | 22°13 | 21°50 | S 19 |
| M20 | 23 56 20 | 27°10'33 | 9♊49 | 19°33 | 5° 2 | 25°50 | 23°17 | 13°49 | 20°59 | 19°27 | 28°36 | 1° 7 | 1° 3 | 22°20 | 21°48 | M20 |
| T 21 | 0 0 17 | 28° 9'23 | 22° 1 | 19°R38 | 6°13 | 26°31 | 23° 9 | 13°49 | 20°57 | 19°27 | 28°36 | 1° 7 | 1° 0 | 22°26 | 21°46 | T 21 |
| W22 | 0 4 14 | 29° 8'15 | 4♋31 | 19°37 | 7°24 | 27°13 | 23° 1 | 13°49 | 20°55 | 19°27 | 28°36 | 1° 7 | 0°56 | 22°33 | 21°44 | W22 |
| T 23 | 0 8 10 | 0♎ 7'10 | 17°23 | 19°29 | 8°35 | 27°55 | 22°53 | 13°50 | 20°54 | 19°27 | 28°36 | 1° 6 | 0°53 | 22°40 | 21°41 | T 23 |
| F 24 | 0 12 7 | 1° 6'07 | 0♌42 | 19°13 | 9°46 | 28°37 | 22°45 | 13°50 | 20°52 | 19°26 | 28°36 | 1° 4 | 0°50 | 22°47 | 21°39 | F 24 |
| S 25 | 0 16 3 | 2° 5'06 | 14°30 | 18°50 | 10°58 | 29°19 | 22°37 | 13°51 | 20°50 | 19°26 | 28°36 | 1° 0 | 0°47 | 22°53 | 21°37 | S 25 |
| S 26 | 0 20 0 | 3° 4'07 | 28°48 | 18°20 | 12° 9 | 0♐ 1 | 22°30 | 13°52 | 20°49 | 19°26 | 28°36 | 0°53 | 0°44 | 23° 0 | 21°35 | S 26 |
| M27 | 0 23 56 | 4° 3'11 | 13♍33 | 17°42 | 13°20 | 0°43 | 22°22 | 13°53 | 20°47 | 19°26 | 28°36 | 0°43 | 0°40 | 23° 7 | 21°33 | M27 |
| T 28 | 0 27 53 | 5° 2'17 | 28°38 | 16°56 | 14°31 | 1°26 | 22°14 | 13°54 | 20°46 | 19°26 | 28°R36 | 0°32 | 0°37 | 23°13 | 21°31 | T 28 |
| W29 | 0 31 49 | 6° 1'24 | 13♎54 | 16° 3 | 15°42 | 2° 8 | 22° 7 | 13°55 | 20°44 | 19°26 | 28°36 | 0°21 | 0°34 | 23°20 | 21°29 | W29 |
| T 30 | 0 35 46 | 7♎ 0'34 | 29♎10 | 15♎ 5 | 16♏52 | 2♐51 | 21♓59 | 13♑56 | 20♒43 | 19♑25 | 28♊36 | 0♋10 | 0♋31 | 23♈27 | 21♒27 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 8n20 | 2n33 | 5n 3 | 3s 9 | 1s32 | 4s32 | 0n22 | 16s41 | 0s58 | 3s 9 | 1s35 | 22s39 | 0n 6 | 15s 3 | 0s46 | 21s30 | 0n32 | 17n54 | 5s34 | 23n27 | 23n28 | 3n23 | 7s44 | 6n37 |
| T 2 | 7 59 | 3s25 | 4 50 | 3 45 | 1 41 | 5 3 | 0 19 | 16 53 | 0 59 | 3 12 | 1 35 | 22 39 | 0 6 | 15 3 | 0 46 | 21 31 | 0 32 | 17 54 | 5 34 | 23 27 | 23 28 | 3 25 | 7 45 | 6 37 |
| F 3 | 7 37 | 9 8 | 4 17 | 4 22 | 1 49 | 5 34 | 0 16 | 17 6 | 0 59 | 3 15 | 1 36 | 22 39 | 0 6 | 15 4 | 0 46 | 21 31 | 0 32 | 17 54 | 5 34 | 23 27 | 23 28 | 3 28 | 7 46 | 6 37 |
| S 4 | 7 14 | 14 15 | 3 29 | 4 57 | 1 58 | 6 5 | 0 13 | 17 18 | 1 0 | 3 18 | 1 36 | 22 40 | 0 5 | 15 5 | 0 46 | 21 31 | 0 32 | 17 54 | 5 34 | 23 27 | 23 28 | 3 31 | 7 47 | 6 36 |
| S 5 | 6 52 | 18 27 | 2 29 | 5 31 | 2 6 | 6 35 | 0 9 | 17 30 | 1 0 | 3 21 | 1 36 | 22 40 | 0 5 | 15 5 | 0 46 | 21 31 | 0 32 | 17 54 | 5 35 | 23 27 | 23 28 | 3 34 | 7 48 | 6 36 |
| M 6 | 6 30 | 21 31 | 1 22 | 6 4 | 2 15 | 7 6 | 0 6 | 17 43 | 1 1 | 3 24 | 1 36 | 22 40 | 0 5 | 15 6 | 0 46 | 21 31 | 0 32 | 17 54 | 5 35 | 23 27 | 23 28 | 3 36 | 7 49 | 6 36 |
| T 7 | 6 7 | 23 17 | 0 12 | 6 36 | 2 23 | 7 36 | 0 3 | 17 55 | 1 1 | 3 27 | 1 36 | 22 40 | 0 5 | 15 7 | 0 46 | 21 31 | 0 32 | 17 54 | 5 35 | 23 27 | 23 28 | 3 39 | 7 50 | 6 36 |
| W 8 | 5 45 | 23 43 | 0s58 | 7 7 | 2 32 | 8 6 | 0s 0 | 18 7 | 1 2 | 3 31 | 1 36 | 22 40 | 0 5 | 15 7 | 0 46 | 21 31 | 0 32 | 17 54 | 5 35 | 23 27 | 23 28 | 3 42 | 7 51 | 6 36 |
| T 9 | 5 22 | 22 52 | 2 3 | 7 37 | 2 40 | 8 36 | 0 3 | 18 19 | 1 3 | 3 34 | 1 36 | 22 41 | 0 5 | 15 8 | 0 46 | 21 31 | 0 32 | 17 54 | 5 35 | 23 27 | 23 28 | 3 45 | 7 53 | 6 35 |
| F 10 | 4 59 | 20 51 | 3 0 | 8 6 | 2 47 | 9 6 | 0 7 | 18 30 | 1 3 | 3 37 | 1 36 | 22 41 | 0 5 | 15 9 | 0 46 | 21 32 | 0 32 | 17 54 | 5 35 | 23 27 | 23 28 | 3 48 | 7 54 | 6 35 |
| S 11 | 4 36 | 17 52 | 3 48 | 8 33 | 2 55 | 9 36 | 0 10 | 18 42 | 1 4 | 3 40 | 1 36 | 22 41 | 0 5 | 15 9 | 0 46 | 21 32 | 0 32 | 17 54 | 5 35 | 23 27 | 23 28 | 3 50 | 7 55 | 6 35 |
| S 12 | 4 13 | 14 7 | 4 25 | 8 58 | 3 2 | 10 5 | 0 13 | 18 53 | 1 4 | 3 44 | 1 36 | 22 41 | 0 5 | 15 10 | 0 46 | 21 32 | 0 32 | 17 53 | 5 35 | 23 28 | 23 28 | 3 53 | 7 56 | 6 35 |
| M13 | 3 50 | 9 51 | 4 49 | 9 22 | 3 9 | 10 34 | 0 17 | 19 5 | 1 5 | 3 47 | 1 37 | 22 41 | 0 5 | 15 11 | 0 46 | 21 32 | 0 32 | 17 53 | 5 35 | 23 28 | 23 29 | 3 56 | 7 57 | 6 34 |
| T 14 | 3 27 | 5 13 | 4 59 | 9 44 | 3 16 | 11 3 | 0 20 | 19 16 | 1 5 | 3 50 | 1 37 | 22 41 | 0 5 | 15 11 | 0 46 | 21 32 | 0 32 | 17 53 | 5 35 | 23 28 | 23 29 | 3 59 | 7 58 | 6 34 |
| W15 | 3 4 | 0 27 | 4 57 | 10 3 | 3 22 | 11 32 | 0 24 | 19 27 | 1 6 | 3 53 | 1 37 | 22 41 | 0 4 | 15 12 | 0 46 | 21 32 | 0 32 | 17 53 | 5 35 | 23 28 | 23 29 | 4 1 | 7 59 | 6 34 |
| T 16 | 2 41 | 4n19 | 4 41 | 10 21 | 3 28 | 12 1 | 0 27 | 19 38 | 1 6 | 3 56 | 1 37 | 22 42 | 0 4 | 15 13 | 0 46 | 21 32 | 0 32 | 17 53 | 5 35 | 23 28 | 23 29 | 4 4 | 8 0 | 6 34 |
| F 17 | 2 18 | 8 55 | 4 13 | 10 37 | 3 33 | 12 29 | 0 31 | 19 49 | 1 7 | 4 0 | 1 37 | 22 42 | 0 4 | 15 13 | 0 46 | 21 32 | 0 32 | 17 53 | 5 35 | 23 29 | 23 29 | 4 7 | 8 1 | 6 33 |
| S 18 | 1 54 | 13 12 | 3 35 | 10 49 | 3 37 | 12 57 | 0 34 | 20 0 | 1 7 | 4 3 | 1 37 | 22 42 | 0 4 | 15 14 | 0 46 | 21 32 | 0 32 | 17 53 | 5 36 | 23 29 | 23 29 | 4 10 | 8 2 | 6 33 |
| S 19 | 1 31 | 17 0 | 2 46 | 10 59 | 3 41 | 13 25 | 0 38 | 20 10 | 1 7 | 4 6 | 1 37 | 22 42 | 0 4 | 15 14 | 0 45 | 21 33 | 0 32 | 17 53 | 5 36 | 23 29 | 23 29 | 4 12 | 8 3 | 6 33 |
| M20 | 1 7 | 20 9 | 1 50 | 11 7 | 3 44 | 13 52 | 0 41 | 20 21 | 1 8 | 4 9 | 1 37 | 22 42 | 0 4 | 15 15 | 0 45 | 21 33 | 0 32 | 17 53 | 5 36 | 23 29 | 23 29 | 4 15 | 8 4 | 6 32 |
| T 21 | 0 44 | 22 27 | 0 48 | 11 10 | 3 46 | 14 19 | 0 45 | 20 31 | 1 8 | 4 12 | 1 37 | 22 42 | 0 4 | 15 15 | 0 45 | 21 33 | 0 32 | 17 53 | 5 36 | 23 29 | 23 29 | 4 18 | 8 5 | 6 32 |
| W22 | 0 21 | 23 42 | 0n18 | 11 11 | 3 47 | 14 46 | 0 48 | 20 41 | 1 9 | 4 15 | 1 37 | 22 42 | 0 4 | 15 16 | 0 45 | 21 33 | 0 32 | 17 53 | 5 36 | 23 29 | 23 29 | 4 21 | 8 6 | 6 32 |
| T 23 | 0s 3 | 23 45 | 1 25 | 11 7 | 3 46 | 15 12 | 0 52 | 20 51 | 1 9 | 4 19 | 1 37 | 22 42 | 0 4 | 15 16 | 0 45 | 21 33 | 0 32 | 17 53 | 5 36 | 23 29 | 23 29 | 4 24 | 8 7 | 6 31 |
| F 24 | 0 26 | 22 28 | 2 29 | 11 0 | 3 45 | 15 39 | 0 55 | 21 1 | 1 10 | 4 22 | 1 37 | 22 42 | 0 4 | 15 17 | 0 45 | 21 33 | 0 32 | 17 53 | 5 36 | 23 29 | 23 29 | 4 26 | 8 8 | 6 31 |
| S 25 | 0 50 | 19 49 | 3 28 | 10 48 | 3 41 | 16 4 | 0 59 | 21 11 | 1 10 | 4 25 | 1 37 | 22 42 | 0 4 | 15 17 | 0 45 | 21 33 | 0 32 | 17 52 | 5 36 | 23 29 | 23 29 | 4 29 | 8 9 | 6 31 |
| S 26 | 1 13 | 15 54 | 4 15 | 10 32 | 3 37 | 16 30 | 1 2 | 21 20 | 1 10 | 4 28 | 1 37 | 22 42 | 0 3 | 15 18 | 0 45 | 21 33 | 0 32 | 17 52 | 5 36 | 23 29 | 23 29 | 4 32 | 8 10 | 6 31 |
| M27 | 1 37 | 10 54 | 4 47 | 10 12 | 3 30 | 16 55 | 1 6 | 21 29 | 1 11 | 4 31 | 1 37 | 22 42 | 0 3 | 15 18 | 0 45 | 21 33 | 0 32 | 17 52 | 5 36 | 23 29 | 23 29 | 4 35 | 8 11 | 6 30 |
| T 28 | 2 0 | 5 8 | 5 0 | 9 47 | 3 22 | 17 19 | 1 9 | 21 39 | 1 11 | 4 34 | 1 37 | 22 42 | 0 3 | 15 19 | 0 45 | 21 33 | 0 32 | 17 52 | 5 36 | 23 29 | 23 29 | 4 37 | 8 12 | 6 30 |
| W29 | 2 24 | 1s 1 | 4 52 | 9 17 | 3 12 | 17 44 | 1 13 | 21 48 | 1 11 | 4 37 | 1 36 | 22 42 | 0 3 | 15 19 | 0 45 | 21 33 | 0 32 | 17 52 | 5 36 | 23 29 | 23 29 | 4 40 | 8 13 | 6 29 |
| T 30 | 2s47 | 7s 5 | 4n23 | 8s43 | 3s 0 | 18s 8 | 1s16 | 21s56 | 1s12 | 4s40 | 1s36 | 22s42 | 0n 3 | 15s20 | 0s45 | 21s33 | 0n32 | 17n52 | 5s36 | 23n29 | 23n29 | 4n43 | 8s14 | 6n29 |

Julian Day Number = 2329797.5, Delta T = 31.91 sec
Ecliptic obliquity = 23°28'58, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'15, Lahiri = 19°12'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## OCTOBER 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 39 43 | 7♎59'46 | 14♏13 | 14°R 1 | 18♏ 3 | 3♐33 | 21°R52 | 13♑57 | 20°R42 | 19°D25 | 28°R36 | 0°R 2 | 0♋28 | 23♈34 | 21°R26 | F 1 |
| S 2 | 0 43 39 | 8°59'00 | 28°57 | 12♎53 | 19°14 | 4°16 | 21♓44 | 13°58 | 20♒40 | 19♑25 | 28♊36 | 29♊57 | 0°25 | 23°40 | 21♒24 | S 2 |
| S 3 | 0 47 36 | 9°58'15 | 13♐16 | 11°42 | 20°25 | 4°59 | 21°37 | 14° 0 | 20°39 | 19°25 | 28°36 | 29°54 | 0°21 | 23°47 | 21°22 | S 3 |
| M 4 | 0 51 32 | 10°57'33 | 27° 8 | 10°31 | 21°35 | 5°42 | 21°30 | 14° 1 | 20°38 | 19°26 | 28°36 | 29°D53 | 0°18 | 23°54 | 21°20 | M 4 |
| T 5 | 0 55 29 | 11°56'52 | 10♑35 | 9°22 | 22°46 | 6°25 | 21°23 | 14° 3 | 20°36 | 19°26 | 28°36 | 29°R54 | 0°15 | 24° 0 | 21°19 | T 5 |
| W 6 | 0 59 25 | 12°56'13 | 23°38 | 8°16 | 23°56 | 7° 8 | 21°16 | 14° 5 | 20°35 | 19°26 | 28°36 | 29°53 | 0°12 | 24° 7 | 21°17 | W 6 |
| T 7 | 1 3 22 | 13°55'35 | 6♒23 | 7°15 | 25° 7 | 7°51 | 21° 9 | 14° 7 | 20°34 | 19°26 | 28°36 | 29°51 | 0° 9 | 24°14 | 21°16 | T 7 |
| F 8 | 1 7 18 | 14°55'00 | 18°52 | 6°21 | 26°17 | 8°34 | 21° 2 | 14° 9 | 20°33 | 19°26 | 28°35 | 29°47 | 0° 6 | 24°21 | 21°14 | F 8 |
| S 9 | 1 11 15 | 15°54'26 | 1♓ 9 | 5°36 | 27°27 | 9°18 | 20°56 | 14°11 | 20°32 | 19°26 | 28°35 | 29°40 | 0° 2 | 24°27 | 21°13 | S 9 |
| S 10 | 1 15 12 | 16°53'54 | 13°17 | 5° 0 | 28°38 | 10° 1 | 20°49 | 14°13 | 20°31 | 19°27 | 28°35 | 29°30 | 29♊59 | 24°34 | 21°12 | S 10 |
| M11 | 1 19 8 | 17°53'24 | 25°19 | 4°35 | 29°48 | 10°45 | 20°43 | 14°15 | 20°30 | 19°27 | 28°35 | 29°18 | 29°56 | 24°41 | 21°10 | M11 |
| T 12 | 1 23 5 | 18°52'55 | 7♈16 | 4°21 | 0♐58 | 11°28 | 20°37 | 14°17 | 20°29 | 19°27 | 28°34 | 29° 4 | 29°53 | 24°47 | 21° 9 | T 12 |
| W13 | 1 27 1 | 19°52'29 | 19° 9 | 4°D18 | 2° 8 | 12°12 | 20°31 | 14°20 | 20°28 | 19°28 | 28°34 | 28°51 | 29°50 | 24°54 | 21° 8 | W13 |
| T 14 | 1 30 58 | 20°52'05 | 1♉ 1 | 4°26 | 3°18 | 12°55 | 20°25 | 14°22 | 20°27 | 19°28 | 28°34 | 28°39 | 29°46 | 25° 1 | 21° 7 | T 14 |
| F 15 | 1 34 54 | 21°51'43 | 12°52 | 4°45 | 4°27 | 13°39 | 20°19 | 14°25 | 20°27 | 19°29 | 28°33 | 28°28 | 29°43 | 25° 8 | 21° 6 | F 15 |
| S 16 | 1 38 51 | 22°51'23 | 24°45 | 5°14 | 5°37 | 14°23 | 20°14 | 14°27 | 20°26 | 19°29 | 28°33 | 28°21 | 29°40 | 25°14 | 21° 5 | S 16 |
| S 17 | 1 42 47 | 23°51'05 | 6♊41 | 5°52 | 6°47 | 15° 7 | 20° 8 | 14°30 | 20°25 | 19°30 | 28°32 | 28°16 | 29°37 | 25°21 | 21° 4 | S 17 |
| M18 | 1 46 44 | 24°50'50 | 18°45 | 6°39 | 7°56 | 15°51 | 20° 3 | 14°33 | 20°25 | 19°30 | 28°32 | 28°13 | 29°34 | 25°28 | 21° 3 | M18 |
| T 19 | 1 50 41 | 25°50'36 | 0♋58 | 7°33 | 9° 6 | 16°35 | 19°58 | 14°36 | 20°24 | 19°31 | 28°32 | 28°D13 | 29°31 | 25°34 | 21° 2 | T 19 |
| W20 | 1 54 37 | 26°50'25 | 13°27 | 8°34 | 10°15 | 17°19 | 19°53 | 14°39 | 20°23 | 19°31 | 28°31 | 28°14 | 29°27 | 25°41 | 21° 2 | W20 |
| T 21 | 1 58 34 | 27°50'16 | 26°15 | 9°42 | 11°24 | 18° 4 | 19°48 | 14°42 | 20°23 | 19°32 | 28°31 | 28°R14 | 29°24 | 25°48 | 21° 1 | T 21 |
| F 22 | 2 2 30 | 28°50'10 | 9♌27 | 10°54 | 12°33 | 18°48 | 19°44 | 14°45 | 20°22 | 19°33 | 28°30 | 28°14 | 29°21 | 25°54 | 21° 0 | F 22 |
| S 23 | 2 6 27 | 29°50'05 | 23° 6 | 12°11 | 13°43 | 19°32 | 19°39 | 14°49 | 20°22 | 19°33 | 28°30 | 28°11 | 29°18 | 26° 1 | 21° 0 | S 23 |
| S 24 | 2 10 23 | 0♏50'03 | 7♍14 | 13°32 | 14°52 | 20°17 | 19°35 | 14°52 | 20°22 | 19°34 | 28°29 | 28° 6 | 29°15 | 26° 8 | 20°59 | S 24 |
| M25 | 2 14 20 | 1°50'03 | 21°50 | 14°57 | 16° 0 | 21° 1 | 19°31 | 14°56 | 20°21 | 19°35 | 28°29 | 28° 0 | 29°11 | 26°15 | 20°59 | M25 |
| T 26 | 2 18 16 | 2°50'05 | 6♎49 | 16°24 | 17° 9 | 21°46 | 19°27 | 14°59 | 20°21 | 19°36 | 28°28 | 27°51 | 29° 8 | 26°21 | 20°59 | T 26 |
| W27 | 2 22 13 | 3°50'09 | 22° 4 | 17°53 | 18°18 | 22°31 | 19°23 | 15° 3 | 20°21 | 19°37 | 28°27 | 27°43 | 29° 5 | 26°28 | 20°58 | W27 |
| T 28 | 2 26 9 | 4°50'15 | 7♏22 | 19°24 | 19°26 | 23°16 | 19°20 | 15° 6 | 20°21 | 19°38 | 28°27 | 27°35 | 29° 2 | 26°35 | 20°58 | T 28 |
| F 29 | 2 30 6 | 5°50'23 | 22°34 | 20°57 | 20°35 | 24° 0 | 19°17 | 15°10 | 20°21 | 19°38 | 28°26 | 27°29 | 28°59 | 26°41 | 20°58 | F 29 |
| S 30 | 2 34 3 | 6°50'33 | 7♐30 | 22°31 | 21°43 | 24°45 | 19°14 | 15°14 | 20°D21 | 19°39 | 28°25 | 27°25 | 28°56 | 26°48 | 20°58 | S 30 |
| S 31 | 2 37 59 | 7♏50'44 | 22♐ 1 | 24♎ 6 | 22♐51 | 25♐30 | 19♓11 | 15♑18 | 20♒21 | 19♑40 | 28♊25 | 27°D23 | 28♊52 | 26♈55 | 20°D58 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3s11 | 12s42 | 3n36 | 8s 5 | 2s46 | 18s31 | 1s20 | 22s 5 | 1s12 | 4s43 | 1s36 | 22s42 | 0n 3 | 15s20 | 0s45 | 21s33 | 0n32 | 17n52 | 5s37 | 23n29 | 23n29 | 4n46 | 8s15 | 6n29 |
| S 2 | 3 34 | 17 26 | 2 36 | 7 25 | 2 31 | 18 54 | 1 23 | 22 13 | 1 12 | 4 45 | 1 36 | 22 42 | 0 3 | 15 21 | 0 45 | 21 33 | 0 31 | 17 52 | 5 37 | 23 29 | 23 29 | 4 48 | 8 15 | 6 28 |
| S 3 | 3 57 | 21 0 | 1 27 | 6 41 | 2 14 | 19 17 | 1 27 | 22 22 | 1 13 | 4 48 | 1 36 | 22 42 | 0 3 | 15 21 | 0 45 | 21 33 | 0 31 | 17 52 | 5 37 | 23 29 | 23 29 | 4 51 | 8 16 | 6 28 |
| M 4 | 4 21 | 23 13 | 0 15 | 5 56 | 1 55 | 19 39 | 1 30 | 22 30 | 1 13 | 4 51 | 1 36 | 22 42 | 0 3 | 15 21 | 0 45 | 21 33 | 0 31 | 17 52 | 5 37 | 23 29 | 23 29 | 4 54 | 8 17 | 6 28 |
| T 5 | 4 44 | 24 0 | 0s56 | 5 11 | 1 36 | 20 0 | 1 33 | 22 37 | 1 13 | 4 54 | 1 36 | 22 42 | 0 3 | 15 22 | 0 45 | 21 33 | 0 31 | 17 52 | 5 37 | 23 29 | 23 29 | 4 57 | 8 18 | 6 27 |
| W 6 | 5 7 | 23 25 | 2 2 | 4 26 | 1 15 | 20 21 | 1 37 | 22 45 | 1 14 | 4 56 | 1 36 | 22 42 | 0 3 | 15 22 | 0 45 | 21 33 | 0 31 | 17 52 | 5 37 | 23 29 | 23 29 | 5 0 | 8 19 | 6 27 |
| T 7 | 5 30 | 21 37 | 3 0 | 3 43 | 0 55 | 20 42 | 1 40 | 22 53 | 1 14 | 4 59 | 1 36 | 22 41 | 0 3 | 15 22 | 0 45 | 21 33 | 0 31 | 17 52 | 5 37 | 23 29 | 23 29 | 5 2 | 8 20 | 6 27 |
| F 8 | 5 53 | 18 49 | 3 48 | 3 3 | 0 34 | 21 2 | 1 44 | 23 0 | 1 14 | 5 1 | 1 36 | 22 41 | 0 2 | 15 23 | 0 45 | 21 33 | 0 31 | 17 51 | 5 37 | 23 29 | 23 29 | 5 5 | 8 21 | 6 26 |
| S 9 | 6 16 | 15 13 | 4 25 | 2 27 | 0 14 | 21 22 | 1 47 | 23 7 | 1 15 | 5 4 | 1 35 | 22 41 | 0 2 | 15 23 | 0 45 | 21 33 | 0 31 | 17 51 | 5 37 | 23 29 | 23 29 | 5 8 | 8 21 | 6 26 |
| S 10 | 6 39 | 11 2 | 4 49 | 1 55 | 0n 5 | 21 41 | 1 50 | 23 14 | 1 15 | 5 6 | 1 35 | 22 41 | 0 2 | 15 23 | 0 45 | 21 33 | 0 31 | 17 51 | 5 37 | 23 29 | 23 29 | 5 11 | 8 22 | 6 25 |
| M11 | 7 2 | 6 27 | 5 0 | 1 28 | 0 23 | 21 59 | 1 53 | 23 20 | 1 15 | 5 9 | 1 35 | 22 41 | 0 2 | 15 24 | 0 45 | 21 33 | 0 31 | 17 51 | 5 37 | 23 29 | 23 29 | 5 13 | 8 23 | 6 25 |
| T 12 | 7 25 | 1 40 | 4 58 | 1 7 | 0 40 | 22 17 | 1 56 | 23 27 | 1 15 | 5 11 | 1 35 | 22 41 | 0 2 | 15 24 | 0 45 | 21 33 | 0 31 | 17 51 | 5 37 | 23 29 | 23 29 | 5 16 | 8 24 | 6 25 |
| W13 | 7 47 | 3n 9 | 4 43 | 0 52 | 0 56 | 22 35 | 2 0 | 23 33 | 1 16 | 5 13 | 1 35 | 22 41 | 0 2 | 15 24 | 0 45 | 21 33 | 0 31 | 17 51 | 5 37 | 23 29 | 23 29 | 5 19 | 8 24 | 6 24 |
| T 14 | 8 10 | 7 52 | 4 15 | 0 42 | 1 10 | 22 51 | 2 3 | 23 39 | 1 16 | 5 15 | 1 35 | 22 40 | 0 2 | 15 24 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 29 | 23 29 | 5 22 | 8 25 | 6 24 |
| F 15 | 8 32 | 12 17 | 3 36 | 0 38 | 1 22 | 23 8 | 2 6 | 23 44 | 1 16 | 5 17 | 1 35 | 22 40 | 0 2 | 15 25 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 28 | 23 29 | 5 25 | 8 26 | 6 23 |
| S 16 | 8 54 | 16 16 | 2 48 | 0 40 | 1 33 | 23 23 | 2 9 | 23 50 | 1 16 | 5 19 | 1 34 | 22 40 | 0 2 | 15 25 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 28 | 23 29 | 5 27 | 8 27 | 6 23 |
| S 17 | 9 16 | 19 37 | 1 52 | 0 47 | 1 42 | 23 38 | 2 11 | 23 55 | 1 17 | 5 21 | 1 34 | 22 40 | 0 2 | 15 25 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 28 | 23 29 | 5 30 | 8 27 | 6 23 |
| M18 | 9 38 | 22 10 | 0 50 | 0 58 | 1 49 | 23 53 | 2 14 | 24 0 | 1 17 | 5 23 | 1 34 | 22 40 | 0 2 | 15 25 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 28 | 23 29 | 5 33 | 8 28 | 6 22 |
| T 19 | 10 0 | 23 43 | 0n15 | 1 14 | 1 55 | 24 7 | 2 17 | 24 5 | 1 17 | 5 25 | 1 34 | 22 39 | 0 2 | 15 25 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 28 | 23 29 | 5 36 | 8 28 | 6 22 |
| W20 | 10 22 | 24 8 | 1 21 | 1 34 | 2 0 | 24 20 | 2 20 | 24 9 | 1 17 | 5 27 | 1 34 | 22 39 | 0 1 | 15 25 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 28 | 23 29 | 5 38 | 8 29 | 6 21 |
| T 21 | 10 43 | 23 18 | 2 24 | 1 57 | 2 3 | 24 33 | 2 23 | 24 14 | 1 17 | 5 29 | 1 33 | 22 39 | 0 1 | 15 25 | 0 45 | 21 33 | 0 31 | 17 51 | 5 38 | 23 28 | 23 29 | 5 41 | 8 30 | 6 21 |
| F 22 | 11 5 | 21 10 | 3 22 | 2 24 | 2 6 | 24 44 | 2 25 | 24 18 | 1 17 | 5 30 | 1 33 | 22 39 | 0 1 | 15 26 | 0 45 | 21 33 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 5 44 | 8 30 | 6 20 |
| S 23 | 11 26 | 17 47 | 4 11 | 2 53 | 2 7 | 24 56 | 2 28 | 24 22 | 1 18 | 5 32 | 1 33 | 22 38 | 0 1 | 15 26 | 0 45 | 21 33 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 5 47 | 8 31 | 6 20 |
| S 24 | 11 47 | 13 17 | 4 46 | 3 24 | 2 7 | 25 6 | 2 30 | 24 25 | 1 18 | 5 33 | 1 33 | 22 38 | 0 1 | 15 26 | 0 45 | 21 33 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 5 50 | 8 31 | 6 20 |
| M25 | 12 8 | 7 53 | 5 4 | 3 57 | 2 6 | 25 16 | 2 32 | 24 28 | 1 18 | 5 35 | 1 33 | 22 38 | 0 1 | 15 26 | 0 44 | 21 33 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 5 52 | 8 32 | 6 19 |
| T 26 | 12 29 | 1 54 | 5 2 | 4 32 | 2 5 | 25 26 | 2 35 | 24 31 | 1 18 | 5 36 | 1 32 | 22 37 | 0 1 | 15 26 | 0 44 | 21 32 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 5 55 | 8 33 | 6 19 |
| W27 | 12 49 | 4s18 | 4 39 | 5 8 | 2 3 | 25 34 | 2 37 | 24 34 | 1 18 | 5 37 | 1 32 | 22 37 | 0 1 | 15 26 | 0 44 | 21 32 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 5 58 | 8 33 | 6 18 |
| T 28 | 13 9 | 10 17 | 3 56 | 5 45 | 2 0 | 25 42 | 2 39 | 24 37 | 1 18 | 5 38 | 1 32 | 22 37 | 0 1 | 15 26 | 0 44 | 21 32 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 6 1 | 8 34 | 6 18 |
| F 29 | 13 30 | 15 37 | 2 56 | 6 23 | 1 56 | 25 50 | 2 41 | 24 39 | 1 18 | 5 40 | 1 32 | 22 36 | 0 1 | 15 26 | 0 44 | 21 32 | 0 31 | 17 50 | 5 38 | 23 28 | 23 29 | 6 3 | 8 34 | 6 17 |
| S 30 | 13 49 | 19 52 | 1 45 | 7 2 | 1 53 | 25 56 | 2 43 | 24 41 | 1 19 | 5 41 | 1 32 | 22 36 | 0 1 | 15 26 | 0 44 | 21 32 | 0 31 | 17 50 | 5 38 | 23 27 | 23 29 | 6 6 | 8 34 | 6 17 |
| S 31 | 14s 9 | 22s46 | 0n29 | 7s41 | 1n48 | 26s 2 | 2s45 | 24s43 | 1s19 | 5s41 | 1s31 | 22s36 | 0n 1 | 15s26 | 0s44 | 21s32 | 0n31 | 17n50 | 5s39 | 23n27 | 23n29 | 6n 9 | 8s35 | 6n17 |

Julian Day Number = 2329827.5, Delta T = 31.85 sec
Ecliptic obliquity = 23°28'58, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'19, Lahiri = 19°12'20Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## NOVEMBER 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 41 56 | 8♏50'57 | 6♑ 5 | 25♎41 | 23♐59 | 26♐15 | 19°R 8 | 15♑22 | 20♒21 | 19♑41 | 28°R24 | 27♊23 | 28♊49 | 27♈ 2 | 20♒58 | M 1 |
| T 2 | 2 45 52 | 9°51'12 | 19°40 | 27°18 | 25° 7 | 27° 0 | 19♓ 5 | 15°26 | 20°21 | 19°42 | 28♊23 | 27°24 | 28°46 | 27° 8 | 20°58 | T 2 |
| W 3 | 2 49 49 | 10°51'28 | 2♒49 | 28°54 | 26°15 | 27°46 | 19° 3 | 15°31 | 20°21 | 19°43 | 28°22 | 27°25 | 28°43 | 27°15 | 20°58 | W 3 |
| T 4 | 2 53 45 | 11°51'46 | 15°35 | 0♏31 | 27°22 | 28°31 | 19° 1 | 15°35 | 20°21 | 19°45 | 28°22 | 27°R26 | 28°40 | 27°22 | 20°58 | T 4 |
| F 5 | 2 57 42 | 12°52'05 | 28° 3 | 2° 8 | 28°30 | 29°16 | 18°59 | 15°39 | 20°22 | 19°46 | 28°21 | 27°24 | 28°37 | 27°28 | 20°59 | F 5 |
| S 6 | 3 1 39 | 13°52'25 | 10♓16 | 3°45 | 29°37 | 0♑ 1 | 18°57 | 15°44 | 20°22 | 19°47 | 28°20 | 27°21 | 28°33 | 27°35 | 20°59 | S 6 |
| S 7 | 3 5 35 | 14°52'47 | 22°18 | 5°22 | 0♑44 | 0°47 | 18°56 | 15°48 | 20°22 | 19°48 | 28°19 | 27°16 | 28°30 | 27°42 | 20°59 | S 7 |
| M 8 | 3 9 32 | 15°53'10 | 4♈15 | 6°59 | 1°51 | 1°32 | 18°55 | 15°53 | 20°23 | 19°49 | 28°19 | 27° 9 | 28°27 | 27°48 | 21° 0 | M 8 |
| T 9 | 3 13 28 | 16°53'34 | 16° 7 | 8°36 | 2°58 | 2°18 | 18°54 | 15°57 | 20°23 | 19°50 | 28°18 | 27° 1 | 28°24 | 27°55 | 21° 0 | T 9 |
| W10 | 3 17 25 | 17°54'01 | 27°58 | 10°13 | 4° 4 | 3° 3 | 18°53 | 16° 2 | 20°24 | 19°52 | 28°17 | 26°53 | 28°21 | 28° 2 | 21° 1 | W10 |
| T 11 | 3 21 21 | 18°54'28 | 9♉51 | 11°49 | 5°10 | 3°49 | 18°52 | 16° 7 | 20°24 | 19°53 | 28°16 | 26°46 | 28°17 | 28° 9 | 21° 2 | T 11 |
| F 12 | 3 25 18 | 19°54'58 | 21°46 | 13°26 | 6°16 | 4°35 | 18°52 | 16°12 | 20°25 | 19°54 | 28°15 | 26°40 | 28°14 | 28°15 | 21° 2 | F 12 |
| S 13 | 3 29 14 | 20°55'29 | 3♊45 | 15° 2 | 7°22 | 5°20 | 18°51 | 16°17 | 20°26 | 19°56 | 28°14 | 26°36 | 28°11 | 28°22 | 21° 3 | S 13 |
| S 14 | 3 33 11 | 21°56'01 | 15°50 | 16°38 | 8°28 | 6° 6 | 18°D51 | 16°22 | 20°26 | 19°57 | 28°13 | 26°33 | 28° 8 | 28°29 | 21° 4 | S 14 |
| M15 | 3 37 7 | 22°56'35 | 28° 3 | 18°14 | 9°34 | 6°52 | 18°51 | 16°27 | 20°27 | 19°59 | 28°12 | 26°D33 | 28° 5 | 28°35 | 21° 5 | M15 |
| T 16 | 3 41 4 | 23°57'11 | 10♋27 | 19°50 | 10°39 | 7°38 | 18°52 | 16°32 | 20°28 | 20° 0 | 28°11 | 26°34 | 28° 2 | 28°42 | 21° 6 | T 16 |
| W17 | 3 45 1 | 24°57'49 | 23° 3 | 21°25 | 11°44 | 8°24 | 18°52 | 16°37 | 20°29 | 20° 1 | 28°10 | 26°35 | 27°58 | 28°49 | 21° 7 | W17 |
| T 18 | 3 48 57 | 25°58'28 | 5♌55 | 23° 0 | 12°49 | 9°10 | 18°53 | 16°43 | 20°30 | 20° 3 | 28° 9 | 26°37 | 27°55 | 28°56 | 21° 8 | T 18 |
| F 19 | 3 52 54 | 26°59'09 | 19° 6 | 24°35 | 13°53 | 9°56 | 18°54 | 16°48 | 20°31 | 20° 4 | 28° 8 | 26°38 | 27°52 | 29° 2 | 21° 9 | F 19 |
| S 20 | 3 56 50 | 27°59'51 | 2♍39 | 26°10 | 14°57 | 10°42 | 18°55 | 16°53 | 20°32 | 20° 6 | 28° 7 | 26°R38 | 27°49 | 29° 9 | 21°10 | S 20 |
| S 21 | 4 0 47 | 29° 0'35 | 16°34 | 27°45 | 16° 1 | 11°28 | 18°57 | 16°59 | 20°33 | 20° 8 | 28° 6 | 26°37 | 27°46 | 29°16 | 21°12 | S 21 |
| M22 | 4 4 43 | 0♐ 1'21 | 0♎53 | 29°20 | 17° 5 | 12°14 | 18°58 | 17° 4 | 20°34 | 20° 9 | 28° 5 | 26°35 | 27°43 | 29°22 | 21°13 | M22 |
| T 23 | 4 8 40 | 1° 2'08 | 15°33 | 0♐54 | 18° 9 | 13° 0 | 19° 0 | 17°10 | 20°35 | 20°11 | 28° 4 | 26°32 | 27°39 | 29°29 | 21°14 | T 23 |
| W24 | 4 12 36 | 2° 2'57 | 0♏28 | 2°29 | 19°12 | 13°47 | 19° 2 | 17°15 | 20°36 | 20°12 | 28° 3 | 26°28 | 27°36 | 29°36 | 21°16 | W24 |
| T 25 | 4 16 33 | 3° 3'47 | 15°31 | 4° 3 | 20°15 | 14°33 | 19° 4 | 17°21 | 20°38 | 20°14 | 28° 2 | 26°25 | 27°33 | 29°42 | 21°17 | T 25 |
| F 26 | 4 20 30 | 4° 4'39 | 0♐32 | 5°37 | 21°17 | 15°19 | 19° 7 | 17°27 | 20°39 | 20°16 | 28° 1 | 26°22 | 27°30 | 29°49 | 21°19 | F 26 |
| S 27 | 4 24 26 | 5° 5'31 | 15°24 | 7°11 | 22°19 | 16° 6 | 19° 9 | 17°33 | 20°40 | 20°18 | 28° 0 | 26°21 | 27°27 | 29°56 | 21°20 | S 27 |
| S 28 | 4 28 23 | 6° 6'25 | 29°58 | 8°45 | 23°21 | 16°52 | 19°12 | 17°39 | 20°42 | 20°19 | 27°59 | 26°D20 | 27°23 | 0♉ 3 | 21°22 | S 28 |
| M29 | 4 32 19 | 7° 7'20 | 14♑ 8 | 10°19 | 24°23 | 17°39 | 19°15 | 17°45 | 20°43 | 20°21 | 27°58 | 26°21 | 27°20 | 0° 9 | 21°24 | M29 |
| T 30 | 4 36 16 | 8♐ 8'16 | 27♑52 | 11♐53 | 25♑24 | 18♑25 | 19♓18 | 17♑51 | 20♒45 | 20♑23 | 27♊57 | 26♊22 | 27♊17 | 0♉16 | 21♒26 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 14s28 | 24s 7 | 0s47 | 8s21 | 1n43 | 26s 7 | 2s47 | 24s44 | 1s19 | 5s42 | 1s31 | 22s35 | 0n 1 | 15s26 | 0s44 | 21s32 | 0n31 | 17n50 | 5s39 | 23n27 | 23n29 | 6n12 | 8s35 | 6n16 |
| T 2 | 14 48 | 23 58 | 1 57 | 9 0 | 1 38 | 26 12 | 2 48 | 24 46 | 1 19 | 5 43 | 1 31 | 22 35 | 0 0 | 15 26 | 0 44 | 21 32 | 0 31 | 17 50 | 5 39 | 23 27 | 23 29 | 6 15 | 8 36 | 6 16 |
| W 3 | 15 7 | 22 28 | 2 59 | 9 39 | 1 33 | 26 16 | 2 50 | 24 47 | 1 19 | 5 44 | 1 31 | 22 34 | 0 0 | 15 26 | 0 44 | 21 32 | 0 31 | 17 50 | 5 39 | 23 27 | 23 29 | 6 17 | 8 36 | 6 15 |
| T 4 | 15 25 | 19 52 | 3 51 | 10 19 | 1 27 | 26 19 | 2 51 | 24 47 | 1 19 | 5 44 | 1 30 | 22 34 | 0 0 | 15 26 | 0 44 | 21 31 | 0 31 | 17 50 | 5 39 | 23 27 | 23 29 | 6 20 | 8 36 | 6 15 |
| F 5 | 15 44 | 16 23 | 4 30 | 10 58 | 1 21 | 26 21 | 2 53 | 24 48 | 1 19 | 5 45 | 1 30 | 22 34 | 0 0 | 15 25 | 0 44 | 21 31 | 0 31 | 17 50 | 5 39 | 23 27 | 23 29 | 6 23 | 8 37 | 6 14 |
| S 6 | 16 2 | 12 17 | 4 55 | 11 37 | 1 15 | 26 23 | 2 54 | 24 48 | 1 19 | 5 45 | 1 30 | 22 33 | 0 0 | 15 25 | 0 44 | 21 31 | 0 30 | 17 50 | 5 39 | 23 27 | 23 28 | 6 26 | 8 37 | 6 14 |
| S 7 | 16 20 | 7 46 | 5 8 | 12 15 | 1 9 | 26 24 | 2 55 | 24 48 | 1 19 | 5 46 | 1 30 | 22 33 | 0 0 | 15 25 | 0 44 | 21 31 | 0 30 | 17 49 | 5 39 | 23 27 | 23 28 | 6 28 | 8 37 | 6 13 |
| M 8 | 16 37 | 3 0 | 5 7 | 12 53 | 1 2 | 26 24 | 2 56 | 24 48 | 1 19 | 5 46 | 1 29 | 22 32 | 0 0 | 15 25 | 0 44 | 21 31 | 0 30 | 17 49 | 5 39 | 23 27 | 23 28 | 6 31 | 8 38 | 6 13 |
| T 9 | 16 55 | 1n51 | 4 52 | 13 31 | 0 56 | 26 24 | 2 57 | 24 47 | 1 19 | 5 46 | 1 29 | 22 32 | 0s 0 | 15 25 | 0 44 | 21 31 | 0 30 | 17 49 | 5 39 | 23 27 | 23 28 | 6 34 | 8 38 | 6 13 |
| W10 | 17 12 | 6 39 | 4 25 | 14 8 | 0 49 | 26 23 | 2 58 | 24 46 | 1 19 | 5 46 | 1 29 | 22 31 | 0 0 | 15 25 | 0 44 | 21 31 | 0 30 | 17 49 | 5 39 | 23 27 | 23 28 | 6 37 | 8 38 | 6 12 |
| T 11 | 17 29 | 11 12 | 3 47 | 14 44 | 0 42 | 26 21 | 2 59 | 24 45 | 1 19 | 5 46 | 1 29 | 22 31 | 0 0 | 15 24 | 0 44 | 21 30 | 0 30 | 17 49 | 5 39 | 23 27 | 23 28 | 6 40 | 8 38 | 6 12 |
| F 12 | 17 45 | 15 22 | 2 58 | 15 20 | 0 36 | 26 19 | 2 59 | 24 43 | 1 19 | 5 46 | 1 28 | 22 30 | 0 0 | 15 24 | 0 44 | 21 30 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 6 42 | 8 38 | 6 11 |
| S 13 | 18 1 | 18 57 | 2 1 | 15 55 | 0 29 | 26 16 | 3 0 | 24 42 | 1 19 | 5 46 | 1 28 | 22 30 | 0 0 | 15 24 | 0 44 | 21 30 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 6 45 | 8 39 | 6 11 |
| S 14 | 18 17 | 21 46 | 0 58 | 16 29 | 0 22 | 26 12 | 3 0 | 24 40 | 1 19 | 5 46 | 1 28 | 22 29 | 0 0 | 15 24 | 0 44 | 21 30 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 6 48 | 8 39 | 6 10 |
| M15 | 18 33 | 23 36 | 0n 8 | 17 3 | 0 15 | 26 8 | 3 0 | 24 37 | 1 19 | 5 46 | 1 28 | 22 29 | 0 1 | 15 23 | 0 44 | 21 30 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 6 51 | 8 39 | 6 10 |
| T 16 | 18 48 | 24 19 | 1 15 | 17 35 | 0 8 | 26 3 | 3 0 | 24 35 | 1 19 | 5 45 | 1 27 | 22 28 | 0 1 | 15 23 | 0 44 | 21 29 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 6 53 | 8 39 | 6 10 |
| W17 | 19 3 | 23 49 | 2 20 | 18 7 | 0 2 | 25 57 | 3 0 | 24 32 | 1 19 | 5 45 | 1 27 | 22 27 | 0 1 | 15 23 | 0 44 | 21 29 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 6 56 | 8 39 | 6 9 |
| T 18 | 19 17 | 22 2 | 3 19 | 18 38 | 0s 5 | 25 51 | 3 0 | 24 29 | 1 19 | 5 44 | 1 27 | 22 27 | 0 1 | 15 22 | 0 44 | 21 29 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 6 59 | 8 39 | 6 9 |
| F 19 | 19 31 | 19 4 | 4 9 | 19 8 | 0 12 | 25 44 | 2 59 | 24 25 | 1 19 | 5 43 | 1 26 | 22 26 | 0 1 | 15 22 | 0 44 | 21 29 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 2 | 8 39 | 6 8 |
| S 20 | 19 45 | 15 0 | 4 47 | 19 38 | 0 18 | 25 36 | 2 59 | 24 22 | 1 19 | 5 43 | 1 26 | 22 26 | 0 1 | 15 22 | 0 44 | 21 29 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 5 | 8 39 | 6 8 |
| S 21 | 19 58 | 10 3 | 5 9 | 20 6 | 0 25 | 25 28 | 2 58 | 24 18 | 1 19 | 5 42 | 1 26 | 22 25 | 0 1 | 15 21 | 0 44 | 21 28 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 7 | 8 39 | 6 7 |
| M22 | 20 12 | 4 26 | 5 13 | 20 33 | 0 31 | 25 19 | 2 57 | 24 13 | 1 19 | 5 41 | 1 26 | 22 24 | 0 1 | 15 21 | 0 44 | 21 28 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 10 | 8 39 | 6 7 |
| T 23 | 20 24 | 1s34 | 4 57 | 21 0 | 0 38 | 25 10 | 2 56 | 24 9 | 1 19 | 5 40 | 1 25 | 22 24 | 0 1 | 15 20 | 0 43 | 21 28 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 13 | 8 39 | 6 7 |
| W24 | 20 37 | 7 35 | 4 21 | 21 25 | 0 44 | 24 59 | 2 55 | 24 4 | 1 18 | 5 39 | 1 25 | 22 23 | 0 1 | 15 20 | 0 43 | 21 28 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 16 | 8 39 | 6 6 |
| T 25 | 20 48 | 13 14 | 3 26 | 21 49 | 0 50 | 24 49 | 2 54 | 23 59 | 1 18 | 5 38 | 1 25 | 22 23 | 0 1 | 15 20 | 0 43 | 21 28 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 18 | 8 39 | 6 6 |
| F 26 | 21 0 | 18 4 | 2 17 | 22 12 | 0 56 | 24 38 | 2 52 | 23 54 | 1 18 | 5 37 | 1 25 | 22 22 | 0 1 | 15 19 | 0 43 | 21 27 | 0 30 | 17 49 | 5 39 | 23 26 | 23 28 | 7 21 | 8 39 | 6 5 |
| S 27 | 21 11 | 21 41 | 1 0 | 22 34 | 1 2 | 24 26 | 2 50 | 23 48 | 1 18 | 5 36 | 1 24 | 22 21 | 0 1 | 15 19 | 0 43 | 21 27 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 24 | 8 39 | 6 5 |
| S 28 | 21 22 | 23 49 | 0s20 | 22 55 | 1 8 | 24 14 | 2 49 | 23 42 | 1 18 | 5 34 | 1 24 | 22 20 | 0 1 | 15 18 | 0 43 | 21 27 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 27 | 8 39 | 6 4 |
| M29 | 21 32 | 24 20 | 1 37 | 23 15 | 1 13 | 24 1 | 2 47 | 23 36 | 1 18 | 5 33 | 1 24 | 22 20 | 0 2 | 15 18 | 0 43 | 21 27 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 30 | 8 39 | 6 4 |
| T 30 | 21s42 | 23s20 | 2s45 | 23s33 | 1s19 | 23s47 | 2s44 | 23s30 | 1s18 | 5s31 | 1s24 | 22s19 | 0s 2 | 15s17 | 0s43 | 21s26 | 0n30 | 17n49 | 5s39 | 23n26 | 23n27 | 7n32 | 8s38 | 6n 4 |

Julian Day Number = 2329858.5, Delta T = 31.80 sec
Ecliptic obliquity = 23°28'58, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'23, Lahiri = 19°12'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1666
# geocentric

## DECEMBER 1666 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 40 12 | 9♐ 9'13 | 11♒10 | 13♐27 | 26♑25 | 19♑12 | 19♓22 | 17♑57 | 20♒46 | 20♑25 | 27°R56 | 26♊24 | 27♊14 | 0♉23 | 21♒28 | W 1 |
| T 2 | 4 44 9 | 10°10'10 | 24° 3 | 15° 2 | 27°25 | 19°58 | 19°25 | 18° 3 | 20°48 | 20°26 | 27♊54 | 26°25 | 27°11 | 0°29 | 21°30 | T 2 |
| F 3 | 4 48 6 | 11°11'08 | 6♓35 | 16°36 | 28°25 | 20°45 | 19°29 | 18° 9 | 20°50 | 20°28 | 27°53 | 26°R26 | 27° 8 | 0°36 | 21°31 | F 3 |
| S 4 | 4 52 2 | 12°12'06 | 18°50 | 18°10 | 29°25 | 21°32 | 19°33 | 18°15 | 20°51 | 20°30 | 27°52 | 26°26 | 27° 4 | 0°43 | 21°34 | S 4 |
| S 5 | 4 55 59 | 13°13'05 | 0♈52 | 19°44 | 0♒24 | 22°18 | 19°37 | 18°21 | 20°53 | 20°32 | 27°51 | 26°25 | 27° 1 | 0°49 | 21°36 | S 5 |
| M 6 | 4 59 55 | 14°14'05 | 12°47 | 21°18 | 1°22 | 23° 5 | 19°42 | 18°27 | 20°55 | 20°34 | 27°50 | 26°24 | 26°58 | 0°56 | 21°38 | M 6 |
| T 7 | 5 3 52 | 15°15'06 | 24°37 | 22°52 | 2°20 | 23°52 | 19°46 | 18°34 | 20°57 | 20°36 | 27°49 | 26°22 | 26°55 | 1° 3 | 21°40 | T 7 |
| W 8 | 5 7 48 | 16°16'07 | 6♉28 | 24°26 | 3°18 | 24°39 | 19°51 | 18°40 | 20°59 | 20°38 | 27°47 | 26°20 | 26°52 | 1°10 | 21°42 | W 8 |
| T 9 | 5 11 45 | 17°17'08 | 18°23 | 26° 1 | 4°15 | 25°25 | 19°56 | 18°46 | 21° 1 | 20°40 | 27°46 | 26°19 | 26°49 | 1°16 | 21°45 | T 9 |
| F 10 | 5 15 41 | 18°18'10 | 0♊24 | 27°35 | 5°11 | 26°12 | 20° 1 | 18°53 | 21° 3 | 20°42 | 27°45 | 26°18 | 26°45 | 1°23 | 21°47 | F 10 |
| S 11 | 5 19 38 | 19°19'13 | 12°32 | 29° 9 | 6° 7 | 26°59 | 20° 6 | 18°59 | 21° 5 | 20°44 | 27°44 | 26°17 | 26°42 | 1°30 | 21°49 | S 11 |
| S 12 | 5 23 35 | 20°20'17 | 24°51 | 0♑44 | 7° 3 | 27°46 | 20°12 | 19° 6 | 21° 7 | 20°46 | 27°43 | 26°D17 | 26°39 | 1°36 | 21°52 | S 12 |
| M13 | 5 27 31 | 21°21'21 | 7♋20 | 2°18 | 7°57 | 28°33 | 20°18 | 19°12 | 21° 9 | 20°48 | 27°41 | 26°17 | 26°36 | 1°43 | 21°54 | M13 |
| T 14 | 5 31 28 | 22°22'26 | 20° 2 | 3°52 | 8°51 | 29°20 | 20°23 | 19°19 | 21°11 | 20°50 | 27°40 | 26°17 | 26°33 | 1°50 | 21°57 | T 14 |
| W15 | 5 35 24 | 23°23'32 | 2♌56 | 5°27 | 9°45 | 0♒ 7 | 20°29 | 19°25 | 21°13 | 20°52 | 27°39 | 26°18 | 26°29 | 1°56 | 21°59 | W15 |
| T 16 | 5 39 21 | 24°24'38 | 16° 4 | 7° 1 | 10°37 | 0°54 | 20°36 | 19°32 | 21°15 | 20°54 | 27°38 | 26°18 | 26°26 | 2° 3 | 22° 2 | T 16 |
| F 17 | 5 43 17 | 25°25'45 | 29°26 | 8°35 | 11°29 | 1°41 | 20°42 | 19°39 | 21°18 | 20°56 | 27°37 | 26°18 | 26°23 | 2°10 | 22° 5 | F 17 |
| S 18 | 5 47 14 | 26°26'53 | 13♍ 3 | 10° 8 | 12°21 | 2°28 | 20°48 | 19°45 | 21°20 | 20°58 | 27°35 | 26°R18 | 26°20 | 2°17 | 22° 8 | S 18 |
| S 19 | 5 51 10 | 27°28'01 | 26°55 | 11°42 | 13°11 | 3°15 | 20°55 | 19°52 | 21°22 | 21° 0 | 27°34 | 26°D18 | 26°17 | 2°23 | 22°10 | S 19 |
| M20 | 5 55 7 | 28°29'10 | 11♎ 1 | 13°15 | 14° 1 | 4° 2 | 21° 2 | 19°59 | 21°25 | 21° 2 | 27°33 | 26°18 | 26°14 | 2°30 | 22°13 | M20 |
| T 21 | 5 59 4 | 29°30'19 | 25°20 | 14°47 | 14°50 | 4°49 | 21° 9 | 20° 6 | 21°27 | 21° 5 | 27°32 | 26°18 | 26°10 | 2°37 | 22°16 | T 21 |
| W22 | 6 3 0 | 0♑31'29 | 9♏49 | 16°18 | 15°38 | 5°36 | 21°16 | 20°13 | 21°29 | 21° 7 | 27°31 | 26°19 | 26° 7 | 2°43 | 22°19 | W22 |
| T 23 | 6 6 57 | 1°32'40 | 24°24 | 17°49 | 16°25 | 6°23 | 21°24 | 20°19 | 21°32 | 21° 9 | 27°29 | 26°19 | 26° 4 | 2°50 | 22°22 | T 23 |
| F 24 | 6 10 53 | 2°33'51 | 9♐ 0 | 19°19 | 17°11 | 7°10 | 21°31 | 20°26 | 21°34 | 21°11 | 27°28 | 26°20 | 26° 1 | 2°57 | 22°25 | F 24 |
| S 25 | 6 14 50 | 3°35'03 | 23°31 | 20°47 | 17°56 | 7°57 | 21°39 | 20°33 | 21°37 | 21°13 | 27°27 | 26°R20 | 25°58 | 3° 3 | 22°28 | S 25 |
| S 26 | 6 18 46 | 4°36'15 | 7♑51 | 22°14 | 18°40 | 8°45 | 21°47 | 20°40 | 21°40 | 21°16 | 27°26 | 26°20 | 25°55 | 3°10 | 22°31 | S 26 |
| M27 | 6 22 43 | 5°37'27 | 21°54 | 23°38 | 19°23 | 9°32 | 21°54 | 20°47 | 21°42 | 21°18 | 27°25 | 26°19 | 25°51 | 3°17 | 22°34 | M27 |
| T 28 | 6 26 40 | 6°38'38 | 5♒36 | 25° 0 | 20° 5 | 10°19 | 22° 3 | 20°54 | 21°45 | 21°20 | 27°23 | 26°18 | 25°48 | 3°24 | 22°38 | T 28 |
| W29 | 6 30 36 | 7°39'50 | 18°57 | 26°20 | 20°46 | 11° 6 | 22°11 | 21° 1 | 21°48 | 21°22 | 27°22 | 26°16 | 25°45 | 3°30 | 22°41 | W29 |
| T 30 | 6 34 33 | 8°41'01 | 1♓54 | 27°36 | 21°25 | 11°53 | 22°19 | 21° 8 | 21°50 | 21°24 | 27°21 | 26°15 | 25°42 | 3°37 | 22°44 | T 30 |
| F 31 | 6 38 29 | 9♑42'12 | 14♓31 | 28♑48 | 22♒ 4 | 12♒41 | 22♓28 | 21♑15 | 21♒53 | 21♑27 | 27♊20 | 26♊13 | 25♊39 | 3♉44 | 22♒48 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21s52 | 21s 2 | 3s43 | 23s51 | 1s24 | 23s34 | 2s42 | 23s23 | 1s18 | 5s30 | 1s23 | 22s18 | 0s 2 | 15s17 | 0s43 | 21s26 | 0n30 | 17n49 | 5s39 | 23n26 | 23n27 | 7n35 | 8s38 | 6n 3 |
| T 2 | 22 1 | 17 44 | 4 27 | 24 7 | 1 29 | 23 19 | 2 40 | 23 16 | 1 17 | 5 28 | 1 23 | 22 18 | 0 2 | 15 16 | 0 43 | 21 26 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 38 | 8 38 | 6 3 |
| F 3 | 22 10 | 13 43 | 4 58 | 24 22 | 1 34 | 23 4 | 2 37 | 23 9 | 1 17 | 5 26 | 1 23 | 22 17 | 0 2 | 15 16 | 0 43 | 21 26 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 41 | 8 38 | 6 2 |
| S 4 | 22 18 | 9 14 | 5 14 | 24 36 | 1 39 | 22 49 | 2 34 | 23 1 | 1 17 | 5 24 | 1 23 | 22 16 | 0 2 | 15 15 | 0 43 | 21 25 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 43 | 8 37 | 6 2 |
| S 5 | 22 26 | 4 29 | 5 15 | 24 48 | 1 43 | 22 33 | 2 31 | 22 54 | 1 17 | 5 23 | 1 22 | 22 15 | 0 2 | 15 14 | 0 43 | 21 25 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 46 | 8 37 | 6 2 |
| M 6 | 22 33 | 0n24 | 5 4 | 24 59 | 1 47 | 22 17 | 2 27 | 22 46 | 1 17 | 5 21 | 1 22 | 22 15 | 0 2 | 15 14 | 0 43 | 21 25 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 49 | 8 37 | 6 1 |
| T 7 | 22 40 | 5 14 | 4 39 | 25 8 | 1 51 | 22 1 | 2 24 | 22 38 | 1 16 | 5 19 | 1 22 | 22 14 | 0 2 | 15 13 | 0 43 | 21 25 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 52 | 8 36 | 6 1 |
| W 8 | 22 46 | 9 53 | 4 2 | 25 17 | 1 55 | 21 44 | 2 20 | 22 29 | 1 16 | 5 16 | 1 21 | 22 13 | 0 2 | 15 13 | 0 43 | 21 24 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 54 | 8 36 | 6 1 |
| T 9 | 22 52 | 14 12 | 3 15 | 25 24 | 1 58 | 21 26 | 2 16 | 22 20 | 1 16 | 5 14 | 1 21 | 22 12 | 0 2 | 15 12 | 0 43 | 21 24 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 7 57 | 8 36 | 6 0 |
| F 10 | 22 58 | 18 1 | 2 19 | 25 29 | 2 1 | 21 8 | 2 12 | 22 11 | 1 16 | 5 12 | 1 21 | 22 11 | 0 2 | 15 11 | 0 43 | 21 24 | 0 30 | 17 49 | 5 39 | 23 26 | 23 27 | 8 0 | 8 35 | 6 0 |
| S 11 | 23 3 | 21 6 | 1 16 | 25 33 | 2 4 | 20 50 | 2 8 | 22 2 | 1 16 | 5 10 | 1 21 | 22 10 | 0 2 | 15 11 | 0 43 | 21 23 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 3 | 8 35 | 5 59 |
| S 12 | 23 8 | 23 15 | 0 8 | 25 35 | 2 7 | 20 32 | 2 3 | 21 53 | 1 15 | 5 7 | 1 20 | 22 10 | 0 2 | 15 10 | 0 43 | 21 23 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 5 | 8 35 | 5 59 |
| M13 | 23 12 | 24 18 | 1n 1 | 25 36 | 2 9 | 20 13 | 1 59 | 21 43 | 1 15 | 5 5 | 1 20 | 22 9 | 0 3 | 15 9 | 0 43 | 21 23 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 8 | 8 34 | 5 59 |
| T 14 | 23 16 | 24 6 | 2 8 | 25 36 | 2 10 | 19 54 | 1 54 | 21 33 | 1 15 | 5 2 | 1 20 | 22 8 | 0 3 | 15 8 | 0 43 | 21 23 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 11 | 8 34 | 5 58 |
| W15 | 23 19 | 22 37 | 3 10 | 25 34 | 2 12 | 19 35 | 1 48 | 21 23 | 1 15 | 5 0 | 1 20 | 22 7 | 0 3 | 15 8 | 0 43 | 21 22 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 14 | 8 33 | 5 58 |
| T 16 | 23 22 | 19 54 | 4 3 | 25 30 | 2 13 | 19 15 | 1 43 | 21 12 | 1 14 | 4 57 | 1 19 | 22 6 | 0 3 | 15 7 | 0 43 | 21 22 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 17 | 8 33 | 5 58 |
| F 17 | 23 24 | 16 6 | 4 43 | 25 25 | 2 13 | 18 55 | 1 37 | 21 1 | 1 14 | 4 54 | 1 19 | 22 5 | 0 3 | 15 6 | 0 43 | 21 22 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 19 | 8 32 | 5 57 |
| S 18 | 23 26 | 11 25 | 5 9 | 25 18 | 2 13 | 18 35 | 1 31 | 20 51 | 1 14 | 4 52 | 1 19 | 22 4 | 0 3 | 15 5 | 0 43 | 21 21 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 22 | 8 32 | 5 57 |
| S 19 | 23 27 | 6 5 | 5 17 | 25 10 | 2 12 | 18 15 | 1 25 | 20 39 | 1 13 | 4 49 | 1 19 | 22 3 | 0 3 | 15 5 | 0 43 | 21 21 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 25 | 8 31 | 5 57 |
| M20 | 23 28 | 0 21 | 5 7 | 25 0 | 2 11 | 17 55 | 1 19 | 20 28 | 1 13 | 4 46 | 1 19 | 22 3 | 0 3 | 15 4 | 0 43 | 21 21 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 28 | 8 30 | 5 56 |
| T 21 | 23 29 | 5s30 | 4 38 | 24 49 | 2 10 | 17 34 | 1 12 | 20 16 | 1 13 | 4 43 | 1 18 | 22 2 | 0 3 | 15 3 | 0 43 | 21 20 | 0 30 | 17 49 | 5 39 | 23 26 | 23 26 | 8 30 | 8 30 | 5 56 |
| W22 | 23 29 | 11 8 | 3 51 | 24 36 | 2 8 | 17 13 | 1 5 | 20 5 | 1 12 | 4 40 | 1 18 | 22 1 | 0 3 | 15 2 | 0 43 | 21 20 | 0 29 | 17 49 | 5 39 | 23 26 | 23 26 | 8 33 | 8 29 | 5 56 |
| T 23 | 23 28 | 16 11 | 2 48 | 24 21 | 2 5 | 16 52 | 0 58 | 19 53 | 1 12 | 4 37 | 1 18 | 22 0 | 0 3 | 15 1 | 0 43 | 21 20 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 36 | 8 29 | 5 55 |
| F 24 | 23 27 | 20 17 | 1 35 | 24 5 | 2 1 | 16 31 | 0 51 | 19 40 | 1 12 | 4 33 | 1 18 | 21 59 | 0 3 | 15 1 | 0 43 | 21 20 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 39 | 8 28 | 5 55 |
| S 25 | 23 26 | 23 4 | 0 16 | 23 48 | 1 57 | 16 10 | 0 43 | 19 28 | 1 12 | 4 30 | 1 17 | 21 58 | 0 3 | 15 0 | 0 43 | 21 19 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 41 | 8 27 | 5 55 |
| S 26 | 23 24 | 24 18 | 1s 3 | 23 29 | 1 52 | 15 49 | 0 35 | 19 15 | 1 11 | 4 27 | 1 17 | 21 57 | 0 3 | 14 59 | 0 43 | 21 19 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 44 | 8 27 | 5 54 |
| M27 | 23 22 | 23 57 | 2 17 | 23 9 | 1 46 | 15 28 | 0 27 | 19 2 | 1 11 | 4 24 | 1 17 | 21 56 | 0 4 | 14 58 | 0 42 | 21 19 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 47 | 8 26 | 5 54 |
| T 28 | 23 19 | 22 9 | 3 21 | 22 48 | 1 40 | 15 6 | 0 18 | 18 49 | 1 10 | 4 20 | 1 17 | 21 55 | 0 4 | 14 57 | 0 42 | 21 18 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 50 | 8 25 | 5 54 |
| W29 | 23 16 | 19 9 | 4 12 | 22 26 | 1 32 | 14 45 | 0 10 | 18 36 | 1 10 | 4 17 | 1 16 | 21 54 | 0 4 | 14 56 | 0 42 | 21 18 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 52 | 8 24 | 5 53 |
| T 30 | 23 12 | 15 18 | 4 48 | 22 3 | 1 23 | 14 24 | 0 1 | 18 22 | 1 10 | 4 13 | 1 16 | 21 53 | 0 4 | 14 55 | 0 42 | 21 18 | 0 29 | 17 49 | 5 38 | 23 26 | 23 25 | 8 55 | 8 24 | 5 53 |
| F 31 | 23s 8 | 10s52 | 5s10 | 21s39 | 1s14 | 14s 3 | 0n 9 | 18s 9 | 1s 9 | 4s10 | 1s16 | 21s52 | 0s 4 | 14s54 | 0s42 | 21s17 | 0n29 | 17n49 | 5s38 | 23n26 | 23n25 | 8n58 | 8s23 | 5n53 |

Julian Day Number = 2329888.5, Delta T = 31.74 sec
Ecliptic obliquity = 23°28'57, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'28, Lahiri = 19°12'28Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## JANUARY 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 42 26 | 10♑43'23 | 26♓50 | 29♑55 | 22♒41 | 13♒28 | 22♓37 | 21♑22 | 21♒56 | 21♑29 | 27°R19 | 26°R12 | 25♊35 | 3♉50 | 22♒51 | S 1 |
| S 2 | 6 46 22 | 11°44'33 | 8♈55 | 0♒57 | 23°16 | 14°15 | 22°45 | 21°29 | 21°59 | 21°31 | 27♊18 | 26°D11 | 25°32 | 3°57 | 22°54 | S 2 |
| M 3 | 6 50 19 | 12°45'43 | 20°50 | 1°53 | 23°50 | 15° 2 | 22°54 | 21°36 | 22° 1 | 21°33 | 27°16 | 26♊12 | 25°29 | 4° 4 | 22°58 | M 3 |
| T 4 | 6 54 15 | 13°46'52 | 2♉41 | 2°42 | 24°23 | 15°49 | 23° 3 | 21°43 | 22° 4 | 21°36 | 27°15 | 26°12 | 25°26 | 4°10 | 23° 1 | T 4 |
| W 5 | 6 58 12 | 14°48'01 | 14°32 | 3°24 | 24°54 | 16°37 | 23°13 | 21°50 | 22° 7 | 21°38 | 27°14 | 26°14 | 25°23 | 4°17 | 23° 5 | W 5 |
| T 6 | 7 2 8 | 15°49'10 | 26°28 | 3°56 | 25°24 | 17°24 | 23°22 | 21°57 | 22°10 | 21°40 | 27°13 | 26°16 | 25°20 | 4°24 | 23° 8 | T 6 |
| F 7 | 7 6 5 | 16°50'18 | 8♊33 | 4°19 | 25°52 | 18°11 | 23°32 | 22° 4 | 22°13 | 21°42 | 27°12 | 26°17 | 25°16 | 4°30 | 23°12 | F 7 |
| S 8 | 7 10 2 | 17°51'25 | 20°50 | 4°32 | 26°18 | 18°58 | 23°41 | 22°11 | 22°16 | 21°45 | 27°11 | 26°R18 | 25°13 | 4°37 | 23°15 | S 8 |
| S 9 | 7 13 58 | 18°52'32 | 3♋21 | 4°R33 | 26°42 | 19°46 | 23°51 | 22°18 | 22°19 | 21°47 | 27°10 | 26°18 | 25°10 | 4°44 | 23°19 | S 9 |
| M10 | 7 17 55 | 19°53'38 | 16° 9 | 4°23 | 27° 5 | 20°33 | 24° 1 | 22°26 | 22°22 | 21°49 | 27° 9 | 26°17 | 25° 7 | 4°51 | 23°23 | M10 |
| T 11 | 7 21 51 | 20°54'44 | 29°13 | 4° 1 | 27°25 | 21°20 | 24°11 | 22°33 | 22°25 | 21°52 | 27° 7 | 26°14 | 25° 4 | 4°57 | 23°26 | T 11 |
| W12 | 7 25 48 | 21°55'49 | 12♌33 | 3°27 | 27°44 | 22° 7 | 24°21 | 22°40 | 22°28 | 21°54 | 27° 6 | 26°11 | 25° 1 | 5° 4 | 23°30 | W12 |
| T 13 | 7 29 44 | 22°56'54 | 26° 7 | 2°43 | 28° 0 | 22°54 | 24°31 | 22°47 | 22°31 | 21°56 | 27° 5 | 26° 6 | 24°57 | 5°11 | 23°34 | T 13 |
| F 14 | 7 33 41 | 23°57'59 | 9♍52 | 1°48 | 28°15 | 23°42 | 24°42 | 22°54 | 22°35 | 21°58 | 27° 4 | 26° 2 | 24°54 | 5°17 | 23°38 | F 14 |
| S 15 | 7 37 38 | 24°59'03 | 23°47 | 0°45 | 28°27 | 24°29 | 24°52 | 23° 1 | 22°38 | 22° 1 | 27° 3 | 25°58 | 24°51 | 5°24 | 23°41 | S 15 |
| S 16 | 7 41 34 | 26° 0'06 | 7♎49 | 29♑35 | 28°37 | 25°16 | 25° 3 | 23° 8 | 22°41 | 22° 3 | 27° 2 | 25°56 | 24°48 | 5°31 | 23°45 | S 16 |
| M17 | 7 45 31 | 27° 1'09 | 21°55 | 28°20 | 28°45 | 26° 3 | 25°13 | 23°15 | 22°44 | 22° 5 | 27° 1 | 25°D54 | 24°45 | 5°37 | 23°49 | M17 |
| T 18 | 7 49 27 | 28° 2'12 | 6♏ 4 | 27° 3 | 28°50 | 26°50 | 25°24 | 23°22 | 22°47 | 22° 7 | 27° 0 | 25°54 | 24°41 | 5°44 | 23°53 | T 18 |
| W19 | 7 53 24 | 29° 3'15 | 20°14 | 25°47 | 28°53 | 27°38 | 25°35 | 23°29 | 22°51 | 22°10 | 26°59 | 25°56 | 24°38 | 5°51 | 23°57 | W19 |
| T 20 | 7 57 20 | 0♒ 4'17 | 4♐24 | 24°32 | 28°R54 | 28°25 | 25°46 | 23°37 | 22°54 | 22°12 | 26°58 | 25°57 | 24°35 | 5°57 | 24° 1 | T 20 |
| F 21 | 8 1 17 | 1° 5'18 | 18°30 | 23°22 | 28°52 | 29°12 | 25°57 | 23°44 | 22°57 | 22°14 | 26°57 | 25°58 | 24°32 | 6° 4 | 24° 5 | F 21 |
| S 22 | 8 5 13 | 2° 6'19 | 2♑32 | 22°18 | 28°48 | 29°59 | 26° 9 | 23°51 | 23° 0 | 22°17 | 26°56 | 25°R58 | 24°29 | 6°11 | 24° 9 | S 22 |
| S 23 | 8 9 10 | 3° 7'19 | 16°26 | 21°21 | 28°41 | 0♓46 | 26°20 | 23°58 | 23° 4 | 22°19 | 26°55 | 25°57 | 24°26 | 6°18 | 24°12 | S 23 |
| M24 | 8 13 7 | 4° 8'18 | 0♒ 8 | 20°32 | 28°31 | 1°33 | 26°31 | 24° 5 | 23° 7 | 22°21 | 26°54 | 25°53 | 24°22 | 6°24 | 24°16 | M24 |
| T 25 | 8 17 3 | 5° 9'16 | 13°36 | 19°52 | 28°19 | 2°20 | 26°43 | 24°12 | 23°10 | 22°23 | 26°53 | 25°47 | 24°19 | 6°31 | 24°21 | T 25 |
| W26 | 8 21 0 | 6°10'13 | 26°47 | 19°20 | 28° 5 | 3° 8 | 26°55 | 24°19 | 23°14 | 22°25 | 26°52 | 25°40 | 24°16 | 6°38 | 24°25 | W26 |
| T 27 | 8 24 56 | 7°11'09 | 9♓41 | 18°57 | 27°48 | 3°55 | 27° 6 | 24°26 | 23°17 | 22°28 | 26°52 | 25°33 | 24°13 | 6°44 | 24°29 | T 27 |
| F 28 | 8 28 53 | 8°12'04 | 22°17 | 18°43 | 27°29 | 4°42 | 27°18 | 24°33 | 23°20 | 22°30 | 26°51 | 25°25 | 24°10 | 6°51 | 24°33 | F 28 |
| S 29 | 8 32 49 | 9°12'57 | 4♈36 | 18°D36 | 27° 7 | 5°29 | 27°30 | 24°40 | 23°24 | 22°32 | 26°50 | 25°19 | 24° 7 | 6°58 | 24°37 | S 29 |
| S 30 | 8 36 46 | 10°13'49 | 16°42 | 18°38 | 26°43 | 6°16 | 27°42 | 24°47 | 23°27 | 22°34 | 26°49 | 25°14 | 24° 3 | 7° 4 | 24°41 | S 30 |
| M31 | 8 40 42 | 11♒14'40 | 28♈37 | 18♑47 | 26♒17 | 7♓ 3 | 27♓54 | 24♑54 | 23♒31 | 22♑37 | 26♊48 | 25♊11 | 24♊ 0 | 7♉11 | 24♒45 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 3 | 6s 6 | 5s16 | 21s14 | 1s 4 | 13s42 | 0n18 | 17s55 | 1s 9 | 4s 6 | 1s16 | 21s51 | 0s 4 | 14s53 | 0s42 | 21s17 | 0n29 | 17n50 | 5s38 | 23n26 | 23n25 | 9n 1 | 8s22 | 5n53 |
| S 2 | 22 58 | 1 11 | 5 9 | 20 50 | 0 52 | 13 21 | 0 28 | 17 41 | 1 9 | 4 2 | 1 16 | 21 50 | 0 4 | 14 53 | 0 42 | 21 17 | 0 29 | 17 50 | 5 38 | 23 26 | 23 24 | 9 3 | 8 21 | 5 52 |
| M 3 | 22 52 | 3n42 | 4 48 | 20 25 | 0 39 | 13 0 | 0 38 | 17 27 | 1 8 | 3 58 | 1 15 | 21 49 | 0 4 | 14 52 | 0 42 | 21 16 | 0 29 | 17 50 | 5 38 | 23 26 | 23 24 | 9 6 | 8 20 | 5 52 |
| T 4 | 22 46 | 8 26 | 4 15 | 20 0 | 0 26 | 12 39 | 0 49 | 17 12 | 1 8 | 3 55 | 1 15 | 21 48 | 0 4 | 14 51 | 0 42 | 21 16 | 0 29 | 17 50 | 5 38 | 23 26 | 23 24 | 9 9 | 8 19 | 5 52 |
| W 5 | 22 40 | 12 52 | 3 31 | 19 36 | 0 11 | 12 19 | 0 59 | 16 58 | 1 7 | 3 51 | 1 15 | 21 47 | 0 4 | 14 50 | 0 42 | 21 16 | 0 29 | 17 50 | 5 37 | 23 26 | 23 24 | 9 12 | 8 19 | 5 51 |
| T 6 | 22 33 | 16 51 | 2 37 | 19 14 | 0n 5 | 11 58 | 1 10 | 16 43 | 1 7 | 3 47 | 1 15 | 21 46 | 0 4 | 14 49 | 0 42 | 21 15 | 0 29 | 17 50 | 5 37 | 23 26 | 23 24 | 9 14 | 8 18 | 5 51 |
| F 7 | 22 25 | 20 11 | 1 36 | 18 52 | 0 22 | 11 38 | 1 22 | 16 28 | 1 7 | 3 43 | 1 15 | 21 44 | 0 4 | 14 48 | 0 42 | 21 15 | 0 29 | 17 50 | 5 37 | 23 26 | 23 24 | 9 17 | 8 17 | 5 51 |
| S 8 | 22 17 | 22 40 | 0 30 | 18 32 | 0 39 | 11 19 | 1 33 | 16 13 | 1 6 | 3 39 | 1 14 | 21 43 | 0 4 | 14 47 | 0 42 | 21 14 | 0 29 | 17 50 | 5 37 | 23 26 | 23 24 | 9 20 | 8 16 | 5 51 |
| S 9 | 22 9 | 24 5 | 0n39 | 18 14 | 0 57 | 10 59 | 1 45 | 15 57 | 1 6 | 3 35 | 1 14 | 21 42 | 0 4 | 14 46 | 0 42 | 21 14 | 0 29 | 17 50 | 5 37 | 23 26 | 23 24 | 9 23 | 8 15 | 5 50 |
| M10 | 22 0 | 24 17 | 1 47 | 17 58 | 1 16 | 10 40 | 1 57 | 15 42 | 1 5 | 3 31 | 1 14 | 21 41 | 0 5 | 14 45 | 0 42 | 21 14 | 0 29 | 17 50 | 5 37 | 23 26 | 23 24 | 9 25 | 8 14 | 5 50 |
| T 11 | 21 51 | 23 8 | 2 51 | 17 45 | 1 35 | 10 22 | 2 10 | 15 26 | 1 5 | 3 27 | 1 14 | 21 40 | 0 5 | 14 44 | 0 42 | 21 13 | 0 29 | 17 50 | 5 37 | 23 26 | 23 23 | 9 28 | 8 13 | 5 50 |
| W12 | 21 42 | 20 42 | 3 47 | 17 35 | 1 53 | 10 3 | 2 22 | 15 11 | 1 4 | 3 22 | 1 14 | 21 39 | 0 5 | 14 43 | 0 42 | 21 13 | 0 29 | 17 50 | 5 37 | 23 26 | 23 23 | 9 31 | 8 12 | 5 50 |
| T 13 | 21 32 | 17 5 | 4 31 | 17 27 | 2 11 | 9 46 | 2 35 | 14 55 | 1 4 | 3 18 | 1 13 | 21 38 | 0 5 | 14 42 | 0 42 | 21 13 | 0 29 | 17 50 | 5 37 | 23 26 | 23 23 | 9 34 | 8 11 | 5 49 |
| F 14 | 21 21 | 12 31 | 5 1 | 17 23 | 2 28 | 9 28 | 2 48 | 14 39 | 1 4 | 3 14 | 1 13 | 21 37 | 0 5 | 14 41 | 0 42 | 21 12 | 0 29 | 17 51 | 5 37 | 23 25 | 23 23 | 9 36 | 8 10 | 5 49 |
| S 15 | 21 10 | 7 15 | 5 13 | 17 21 | 2 44 | 9 11 | 3 2 | 14 23 | 1 3 | 3 10 | 1 13 | 21 36 | 0 5 | 14 40 | 0 42 | 21 12 | 0 29 | 17 51 | 5 36 | 23 25 | 23 23 | 9 39 | 8 9 | 5 49 |
| S 16 | 20 59 | 1 35 | 5 6 | 17 22 | 2 58 | 8 55 | 3 15 | 14 6 | 1 3 | 3 5 | 1 13 | 21 35 | 0 5 | 14 39 | 0 42 | 21 12 | 0 29 | 17 51 | 5 36 | 23 25 | 23 23 | 9 42 | 8 8 | 5 49 |
| M17 | 20 48 | 4s12 | 4 41 | 17 26 | 3 10 | 8 40 | 3 29 | 13 50 | 1 2 | 3 1 | 1 13 | 21 33 | 0 5 | 14 38 | 0 42 | 21 11 | 0 29 | 17 51 | 5 36 | 23 25 | 23 23 | 9 45 | 8 7 | 5 49 |
| T 18 | 20 36 | 9 48 | 3 59 | 17 31 | 3 20 | 8 25 | 3 43 | 13 33 | 1 2 | 2 56 | 1 12 | 21 32 | 0 5 | 14 36 | 0 42 | 21 11 | 0 29 | 17 51 | 5 36 | 23 25 | 23 23 | 9 47 | 8 6 | 5 48 |
| W19 | 20 23 | 14 54 | 3 3 | 17 38 | 3 27 | 8 10 | 3 57 | 13 17 | 1 1 | 2 52 | 1 12 | 21 31 | 0 5 | 14 35 | 0 42 | 21 11 | 0 29 | 17 51 | 5 36 | 23 25 | 23 22 | 9 50 | 8 5 | 5 48 |
| T 20 | 20 10 | 19 10 | 1 55 | 17 47 | 3 32 | 7 57 | 4 12 | 13 0 | 1 1 | 2 47 | 1 12 | 21 30 | 0 5 | 14 34 | 0 42 | 21 10 | 0 29 | 17 51 | 5 36 | 23 25 | 23 22 | 9 53 | 8 4 | 5 48 |
| F 21 | 19 57 | 22 19 | 0 41 | 17 56 | 3 34 | 7 44 | 4 26 | 12 43 | 1 0 | 2 43 | 1 12 | 21 29 | 0 5 | 14 33 | 0 42 | 21 10 | 0 29 | 17 51 | 5 36 | 23 25 | 23 22 | 9 56 | 8 3 | 5 48 |
| S 22 | 19 44 | 24 3 | 0s36 | 18 7 | 3 34 | 7 32 | 4 40 | 12 26 | 1 0 | 2 38 | 1 12 | 21 28 | 0 5 | 14 32 | 0 42 | 21 10 | 0 29 | 17 51 | 5 36 | 23 25 | 23 22 | 9 58 | 8 2 | 5 48 |
| S 23 | 19 30 | 24 16 | 1 49 | 18 18 | 3 31 | 7 21 | 4 55 | 12 9 | 0 59 | 2 33 | 1 12 | 21 27 | 0 5 | 14 31 | 0 42 | 21 9 | 0 29 | 17 51 | 5 35 | 23 25 | 23 22 | 10 1 | 8 0 | 5 48 |
| M24 | 19 15 | 23 0 | 2 55 | 18 30 | 3 27 | 7 10 | 5 9 | 11 51 | 0 59 | 2 29 | 1 11 | 21 25 | 0 6 | 14 30 | 0 42 | 21 9 | 0 29 | 17 52 | 5 35 | 23 25 | 23 22 | 10 4 | 7 59 | 5 47 |
| T 25 | 19 1 | 20 26 | 3 50 | 18 41 | 3 21 | 7 1 | 5 23 | 11 34 | 0 58 | 2 24 | 1 11 | 21 24 | 0 6 | 14 29 | 0 42 | 21 8 | 0 29 | 17 52 | 5 35 | 23 25 | 23 22 | 10 7 | 7 58 | 5 47 |
| W26 | 18 46 | 16 51 | 4 31 | 18 53 | 3 14 | 6 52 | 5 38 | 11 16 | 0 58 | 2 19 | 1 11 | 21 23 | 0 6 | 14 28 | 0 42 | 21 8 | 0 29 | 17 52 | 5 35 | 23 25 | 23 22 | 10 9 | 7 57 | 5 47 |
| T 27 | 18 31 | 12 32 | 4 57 | 19 5 | 3 6 | 6 45 | 5 52 | 10 59 | 0 57 | 2 14 | 1 11 | 21 22 | 0 6 | 14 27 | 0 42 | 21 8 | 0 29 | 17 52 | 5 35 | 23 24 | 23 21 | 10 12 | 7 56 | 5 47 |
| F 28 | 18 15 | 7 47 | 5 8 | 19 16 | 2 56 | 6 38 | 6 6 | 10 41 | 0 57 | 2 9 | 1 11 | 21 21 | 0 6 | 14 25 | 0 42 | 21 7 | 0 29 | 17 52 | 5 35 | 23 24 | 23 21 | 10 15 | 7 55 | 5 47 |
| S 29 | 17 59 | 2 50 | 5 5 | 19 27 | 2 46 | 6 33 | 6 19 | 10 23 | 0 56 | 2 5 | 1 11 | 21 20 | 0 6 | 14 24 | 0 42 | 21 7 | 0 29 | 17 52 | 5 35 | 23 24 | 23 21 | 10 17 | 7 53 | 5 47 |
| S 30 | 17 43 | 2n 9 | 4 48 | 19 37 | 2 35 | 6 28 | 6 32 | 10 6 | 0 56 | 2 0 | 1 11 | 21 18 | 0 6 | 14 23 | 0 42 | 21 7 | 0 29 | 17 52 | 5 35 | 23 24 | 23 21 | 10 20 | 7 52 | 5 46 |
| M31 | 17s26 | 6n59 | 4s18 | 19s47 | 2n24 | 6s25 | 6n45 | 9s48 | 0s55 | 1s55 | 1s10 | 21s17 | 0s 6 | 14s22 | 0s42 | 21s 6 | 0n29 | 17n52 | 5s34 | 23n24 | 23n21 | 10n23 | 7s51 | 5n46 |

Julian Day Number = 2329919.5, Delta T = 31.69 sec
Ecliptic obliquity = 23°28'58, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'32, Lahiri = 19°12'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## FEBRUARY 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 44 39 | 12♒15'29 | 10♉28 | 19♑ 2 | 25°R49 | 7♓50 | 28♓ 6 | 25♑ 1 | 23♒34 | 22♑39 | 26°R47 | 25°D 9 | 23♊57 | 7♉18 | 24♒49 | T 1 |
| W 2 | 8 48 36 | 13°16'16 | 22°18 | 19°24 | 25♒19 | 8°37 | 28°19 | 25° 8 | 23°37 | 22°41 | 26♊47 | 25♊10 | 23°54 | 7°24 | 24°53 | W 2 |
| T 3 | 8 52 32 | 14°17'03 | 4♊14 | 19°51 | 24°48 | 9°24 | 28°31 | 25°14 | 23°41 | 22°43 | 26°46 | 25°11 | 23°51 | 7°31 | 24°57 | T 3 |
| F 4 | 8 56 29 | 15°17'47 | 16°19 | 20°24 | 24°14 | 10°11 | 28°43 | 25°21 | 23°44 | 22°45 | 26°45 | 25°12 | 23°47 | 7°38 | 25° 1 | F 4 |
| S 5 | 9 0 25 | 16°18'30 | 28°40 | 21° 1 | 23°40 | 10°58 | 28°56 | 25°28 | 23°48 | 22°47 | 26°44 | 25°R13 | 23°44 | 7°44 | 25° 6 | S 5 |
| S 6 | 9 4 22 | 17°19'12 | 11♋19 | 21°43 | 23° 4 | 11°44 | 29° 8 | 25°35 | 23°51 | 22°49 | 26°44 | 25°11 | 23°41 | 7°51 | 25°10 | S 6 |
| M 7 | 9 8 18 | 18°19'52 | 24°20 | 22°29 | 22°28 | 12°31 | 29°21 | 25°42 | 23°55 | 22°52 | 26°43 | 25° 8 | 23°38 | 7°58 | 25°14 | M 7 |
| T 8 | 9 12 15 | 19°20'30 | 7♌43 | 23°19 | 21°51 | 13°18 | 29°34 | 25°48 | 23°58 | 22°54 | 26°42 | 25° 2 | 23°35 | 8° 5 | 25°18 | T 8 |
| W 9 | 9 16 11 | 20°21'07 | 21°27 | 24°12 | 21°13 | 14° 5 | 29°47 | 25°55 | 24° 1 | 22°56 | 26°42 | 24°53 | 23°32 | 8°11 | 25°22 | W 9 |
| T 10 | 9 20 8 | 21°21'43 | 5♍29 | 25° 8 | 20°36 | 14°52 | 29°59 | 26° 2 | 24° 5 | 22°58 | 26°41 | 24°44 | 23°28 | 8°18 | 25°26 | T 10 |
| F 11 | 9 24 5 | 22°22'17 | 19°44 | 26° 7 | 19°58 | 15°38 | 0♈12 | 26° 8 | 24° 8 | 23° 0 | 26°40 | 24°34 | 23°25 | 8°25 | 25°31 | F 11 |
| S 12 | 9 28 1 | 23°22'49 | 4♎ 7 | 27° 9 | 19°21 | 16°25 | 0°25 | 26°15 | 24°12 | 23° 2 | 26°40 | 24°25 | 23°22 | 8°31 | 25°35 | S 12 |
| S 13 | 9 31 58 | 24°23'21 | 18°31 | 28°13 | 18°45 | 17°12 | 0°38 | 26°22 | 24°15 | 23° 4 | 26°39 | 24°18 | 23°19 | 8°38 | 25°39 | S 13 |
| M14 | 9 35 54 | 25°23'51 | 2♏51 | 29°20 | 18°10 | 17°58 | 0°51 | 26°28 | 24°19 | 23° 6 | 26°39 | 24°14 | 23°16 | 8°45 | 25°43 | M14 |
| T 15 | 9 39 51 | 26°24'19 | 17° 5 | 0♒28 | 17°36 | 18°45 | 1° 5 | 26°35 | 24°22 | 23° 8 | 26°38 | 24°12 | 23°13 | 8°51 | 25°47 | T 15 |
| W16 | 9 43 47 | 27°24'47 | 1♐10 | 1°39 | 17° 3 | 19°32 | 1°18 | 26°41 | 24°26 | 23°10 | 26°37 | 24°D11 | 23° 9 | 8°58 | 25°51 | W16 |
| T 17 | 9 47 44 | 28°25'13 | 15° 6 | 2°52 | 16°32 | 20°18 | 1°31 | 26°47 | 24°29 | 23°12 | 26°37 | 24°12 | 23° 6 | 9° 5 | 25°56 | T 17 |
| F 18 | 9 51 40 | 29°25'38 | 28°52 | 4° 6 | 16° 3 | 21° 5 | 1°45 | 26°54 | 24°33 | 23°14 | 26°36 | 24°R12 | 23° 3 | 9°11 | 26° 0 | F 18 |
| S 19 | 9 55 37 | 0♓26'02 | 12♑29 | 5°22 | 15°35 | 21°51 | 1°58 | 27° 0 | 24°36 | 23°16 | 26°36 | 24°11 | 23° 0 | 9°18 | 26° 4 | S 19 |
| S 20 | 9 59 34 | 1°26'24 | 25°56 | 6°40 | 15°10 | 22°38 | 2°11 | 27° 6 | 24°40 | 23°18 | 26°36 | 24° 7 | 22°57 | 9°25 | 26° 8 | S 20 |
| M21 | 10 3 30 | 2°26'44 | 9♒13 | 7°59 | 14°47 | 23°24 | 2°25 | 27°13 | 24°43 | 23°19 | 26°35 | 24° 0 | 22°53 | 9°31 | 26°12 | M21 |
| T 22 | 10 7 27 | 3°27'03 | 22°19 | 9°19 | 14°26 | 24°11 | 2°39 | 27°19 | 24°46 | 23°21 | 26°35 | 23°50 | 22°50 | 9°38 | 26°17 | T 22 |
| W23 | 10 11 23 | 4°27'20 | 5♓12 | 10°41 | 14° 7 | 24°57 | 2°52 | 27°25 | 24°50 | 23°23 | 26°34 | 23°38 | 22°47 | 9°45 | 26°21 | W23 |
| T 24 | 10 15 20 | 5°27'35 | 17°53 | 12° 5 | 13°51 | 25°43 | 3° 6 | 27°31 | 24°53 | 23°25 | 26°34 | 23°25 | 22°44 | 9°51 | 26°25 | T 24 |
| F 25 | 10 19 16 | 6°27'49 | 0♈20 | 13°29 | 13°37 | 26°30 | 3°20 | 27°37 | 24°57 | 23°27 | 26°34 | 23°12 | 22°41 | 9°58 | 26°29 | F 25 |
| S 26 | 10 23 13 | 7°28'00 | 12°34 | 14°55 | 13°26 | 27°16 | 3°33 | 27°43 | 25° 0 | 23°29 | 26°33 | 23° 0 | 22°38 | 10° 5 | 26°33 | S 26 |
| S 27 | 10 27 9 | 8°28'10 | 24°37 | 16°22 | 13°17 | 28° 2 | 3°47 | 27°49 | 25° 4 | 23°30 | 26°33 | 22°50 | 22°34 | 10°11 | 26°37 | S 27 |
| M28 | 10 31 6 | 9♓28'17 | 6♉31 | 17♒51 | 13♒10 | 28♓48 | 4♈ 1 | 27♑55 | 25♒ 7 | 23♑32 | 26♊33 | 22♊43 | 22♊31 | 10♉18 | 26♒41 | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s 9 | 11n32 | 3s38 | 19s56 | 2n13 | 6s23 | 6n58 | 9s30 | 0s55 | 1s50 | 1s10 | 21s16 | 0s 6 | 14s21 | 0s42 | 21s 6 | 0n29 | 17n52 | 5s34 | 23n24 | 23n21 | 10n26 | 7s50 | 5n46 |
| W 2 | 16 52 | 15 40 | 2 48 | 20 4 | 2 2 | 6 21 | 7 9 | 9 11 | 0 54 | 1 45 | 1 10 | 21 15 | 0 6 | 14 20 | 0 42 | 21 6 | 0 29 | 17 53 | 5 34 | 23 24 | 23 21 | 10 28 | 7 48 | 5 46 |
| T 3 | 16 34 | 19 13 | 1 51 | 20 12 | 1 50 | 6 21 | 7 21 | 8 53 | 0 53 | 1 40 | 1 10 | 21 14 | 0 6 | 14 19 | 0 42 | 21 5 | 0 29 | 17 53 | 5 34 | 23 24 | 23 20 | 10 31 | 7 47 | 5 46 |
| F 4 | 16 17 | 21 59 | 0 48 | 20 18 | 1 39 | 6 22 | 7 31 | 8 35 | 0 53 | 1 35 | 1 10 | 21 13 | 0 6 | 14 18 | 0 42 | 21 5 | 0 29 | 17 53 | 5 34 | 23 24 | 23 20 | 10 34 | 7 46 | 5 46 |
| S 5 | 15 59 | 23 47 | 0n19 | 20 24 | 1 27 | 6 24 | 7 41 | 8 17 | 0 52 | 1 29 | 1 10 | 21 11 | 0 6 | 14 16 | 0 42 | 21 5 | 0 29 | 17 53 | 5 34 | 23 24 | 23 20 | 10 37 | 7 45 | 5 46 |
| S 6 | 15 40 | 24 25 | 1 26 | 20 29 | 1 16 | 6 26 | 7 50 | 7 58 | 0 52 | 1 24 | 1 10 | 21 10 | 0 7 | 14 15 | 0 42 | 21 4 | 0 29 | 17 53 | 5 34 | 23 24 | 23 20 | 10 39 | 7 43 | 5 46 |
| M 7 | 15 22 | 23 45 | 2 30 | 20 33 | 1 5 | 6 30 | 7 58 | 7 40 | 0 51 | 1 19 | 1 9 | 21 9 | 0 7 | 14 14 | 0 42 | 21 4 | 0 29 | 17 53 | 5 33 | 23 24 | 23 20 | 10 42 | 7 42 | 5 46 |
| T 8 | 15 3 | 21 43 | 3 28 | 20 35 | 0 54 | 6 35 | 8 6 | 7 21 | 0 51 | 1 14 | 1 9 | 21 8 | 0 7 | 14 13 | 0 42 | 21 4 | 0 29 | 17 53 | 5 33 | 23 23 | 23 20 | 10 45 | 7 41 | 5 46 |
| W 9 | 14 44 | 18 24 | 4 15 | 20 37 | 0 43 | 6 40 | 8 12 | 7 3 | 0 50 | 1 9 | 1 9 | 21 7 | 0 7 | 14 12 | 0 42 | 21 3 | 0 29 | 17 54 | 5 33 | 23 23 | 23 19 | 10 47 | 7 40 | 5 45 |
| T 10 | 14 24 | 13 58 | 4 48 | 20 37 | 0 32 | 6 47 | 8 18 | 6 44 | 0 50 | 1 4 | 1 9 | 21 6 | 0 7 | 14 11 | 0 42 | 21 3 | 0 29 | 17 54 | 5 33 | 23 23 | 23 19 | 10 50 | 7 38 | 5 45 |
| F 11 | 14 5 | 8 43 | 5 3 | 20 36 | 0 22 | 6 54 | 8 22 | 6 25 | 0 49 | 0 58 | 1 9 | 21 4 | 0 7 | 14 10 | 0 42 | 21 3 | 0 29 | 17 54 | 5 33 | 23 22 | 23 19 | 10 53 | 7 37 | 5 45 |
| S 12 | 13 45 | 2 57 | 5 0 | 20 34 | 0 12 | 7 2 | 8 26 | 6 7 | 0 48 | 0 53 | 1 9 | 21 3 | 0 7 | 14 8 | 0 42 | 21 2 | 0 29 | 17 54 | 5 33 | 23 22 | 23 19 | 10 56 | 7 36 | 5 45 |
| S 13 | 13 25 | 2s59 | 4 38 | 20 31 | 0 2 | 7 10 | 8 28 | 5 48 | 0 48 | 0 48 | 1 9 | 21 2 | 0 7 | 14 7 | 0 42 | 21 2 | 0 29 | 17 54 | 5 32 | 23 22 | 23 19 | 10 58 | 7 34 | 5 45 |
| M14 | 13 5 | 8 45 | 3 58 | 20 27 | 0s 7 | 7 19 | 8 30 | 5 29 | 0 47 | 0 42 | 1 9 | 21 1 | 0 7 | 14 6 | 0 42 | 21 2 | 0 29 | 17 54 | 5 32 | 23 21 | 23 19 | 11 1 | 7 33 | 5 45 |
| T 15 | 12 44 | 14 1 | 3 4 | 20 21 | 0 17 | 7 28 | 8 31 | 5 10 | 0 47 | 0 37 | 1 8 | 21 0 | 0 7 | 14 5 | 0 42 | 21 1 | 0 29 | 17 54 | 5 32 | 23 21 | 23 19 | 11 4 | 7 32 | 5 45 |
| W16 | 12 24 | 18 29 | 2 0 | 20 15 | 0 26 | 7 38 | 8 30 | 4 52 | 0 46 | 0 32 | 1 8 | 20 59 | 0 7 | 14 4 | 0 42 | 21 1 | 0 29 | 17 55 | 5 32 | 23 21 | 23 18 | 11 6 | 7 30 | 5 45 |
| T 17 | 12 3 | 21 51 | 0 48 | 20 7 | 0 34 | 7 48 | 8 29 | 4 33 | 0 45 | 0 26 | 1 8 | 20 57 | 0 7 | 14 3 | 0 42 | 21 1 | 0 29 | 17 55 | 5 32 | 23 21 | 23 18 | 11 9 | 7 29 | 5 45 |
| F 18 | 11 42 | 23 54 | 0s25 | 19 57 | 0 42 | 7 58 | 8 27 | 4 14 | 0 45 | 0 21 | 1 8 | 20 56 | 0 7 | 14 1 | 0 42 | 21 0 | 0 29 | 17 55 | 5 32 | 23 21 | 23 18 | 11 12 | 7 28 | 5 45 |
| S 19 | 11 20 | 24 29 | 1 36 | 19 46 | 0 50 | 8 9 | 8 25 | 3 55 | 0 44 | 0 15 | 1 8 | 20 55 | 0 8 | 14 0 | 0 42 | 21 0 | 0 29 | 17 55 | 5 31 | 23 21 | 23 18 | 11 15 | 7 26 | 5 45 |
| S 20 | 10 59 | 23 37 | 2 40 | 19 35 | 0 58 | 8 20 | 8 21 | 3 36 | 0 44 | 0 10 | 1 8 | 20 54 | 0 8 | 13 59 | 0 42 | 21 0 | 0 29 | 17 55 | 5 31 | 23 21 | 23 18 | 11 17 | 7 25 | 5 45 |
| M21 | 10 37 | 21 26 | 3 35 | 19 21 | 1 5 | 8 30 | 8 17 | 3 17 | 0 43 | 0 4 | 1 8 | 20 53 | 0 8 | 13 58 | 0 42 | 20 59 | 0 29 | 17 55 | 5 31 | 23 21 | 23 18 | 11 20 | 7 23 | 5 45 |
| T 22 | 10 16 | 18 9 | 4 17 | 19 7 | 1 12 | 8 41 | 8 12 | 2 58 | 0 42 | 0n 1 | 1 8 | 20 52 | 0 8 | 13 57 | 0 42 | 20 59 | 0 29 | 17 56 | 5 31 | 23 20 | 23 17 | 11 23 | 7 22 | 5 45 |
| W23 | 9 54 | 14 3 | 4 46 | 18 51 | 1 19 | 8 52 | 8 6 | 2 39 | 0 42 | 0 7 | 1 8 | 20 51 | 0 8 | 13 56 | 0 42 | 20 59 | 0 29 | 17 56 | 5 31 | 23 20 | 23 17 | 11 25 | 7 21 | 5 45 |
| T 24 | 9 32 | 9 24 | 5 0 | 18 34 | 1 25 | 9 2 | 8 0 | 2 20 | 0 41 | 0 12 | 1 8 | 20 49 | 0 8 | 13 55 | 0 42 | 20 58 | 0 29 | 17 56 | 5 31 | 23 19 | 23 17 | 11 28 | 7 19 | 5 45 |
| F 25 | 9 9 | 4 26 | 4 59 | 18 15 | 1 31 | 9 12 | 7 53 | 2 1 | 0 41 | 0 18 | 1 7 | 20 48 | 0 8 | 13 53 | 0 42 | 20 58 | 0 29 | 17 56 | 5 30 | 23 18 | 23 17 | 11 31 | 7 18 | 5 45 |
| S 26 | 8 47 | 0n37 | 4 44 | 17 56 | 1 36 | 9 22 | 7 46 | 1 42 | 0 40 | 0 23 | 1 7 | 20 47 | 0 8 | 13 52 | 0 42 | 20 58 | 0 29 | 17 56 | 5 30 | 23 18 | 23 17 | 11 33 | 7 17 | 5 45 |
| S 27 | 8 25 | 5 34 | 4 17 | 17 34 | 1 42 | 9 32 | 7 38 | 1 23 | 0 39 | 0 29 | 1 7 | 20 46 | 0 8 | 13 51 | 0 42 | 20 57 | 0 29 | 17 56 | 5 30 | 23 17 | 23 16 | 11 36 | 7 15 | 5 45 |
| M28 | 8s 2 | 10n17 | 3s38 | 17s12 | 1s46 | 9s42 | 7n30 | 1s 4 | 0s39 | 0n34 | 1s 7 | 20s45 | 0s 8 | 13s50 | 0s42 | 20s57 | 0n29 | 17n57 | 5s30 | 23n17 | 23n16 | 11n39 | 7s14 | 5n45 |

Julian Day Number = 2329950.5, Delta T = 31.63 sec
Ecliptic obliquity = 23°28'58, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'36, Lahiri = 19°12'37Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## MARCH 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 35 3 | 10♓28'22 | 18♉21 | 19♒20 | 13°R 6 | 29♓34 | 4♈15 | 28♑ 1 | 25♒10 | 23♑34 | 26°R33 | 22°R39 | 22♊28 | 10♉25 | 26♒45 | T 1 |
| W 2 | 10 38 59 | 11°28'26 | 0♊ 9 | 20°51 | 13°D 5 | 0♈21 | 4°29 | 28° 7 | 25°14 | 23°35 | 26♊32 | 22♊37 | 22°25 | 10°32 | 26°49 | W 2 |
| T 3 | 10 42 56 | 12°28'27 | 12° 3 | 22°23 | 13♒ 6 | 1° 7 | 4°43 | 28°13 | 25°17 | 23°37 | 26°32 | 22°D36 | 22°22 | 10°38 | 26°54 | T 3 |
| F 4 | 10 46 52 | 13°28'26 | 24° 6 | 23°56 | 13° 9 | 1°53 | 4°57 | 28°18 | 25°20 | 23°39 | 26°32 | 22°R36 | 22°18 | 10°45 | 26°58 | F 4 |
| S 5 | 10 50 49 | 14°28'23 | 6♋26 | 25°30 | 13°14 | 2°39 | 5°11 | 28°24 | 25°24 | 23°40 | 26°32 | 22°36 | 22°15 | 10°52 | 27° 2 | S 5 |
| S 6 | 10 54 45 | 15°28'18 | 19° 6 | 27° 6 | 13°22 | 3°25 | 5°25 | 28°30 | 25°27 | 23°42 | 26°32 | 22°33 | 22°12 | 10°58 | 27° 6 | S 6 |
| M 7 | 10 58 42 | 16°28'10 | 2♌10 | 28°42 | 13°32 | 4°11 | 5°39 | 28°35 | 25°30 | 23°43 | 26°32 | 22°29 | 22° 9 | 11° 5 | 27°10 | M 7 |
| T 8 | 11 2 38 | 17°28'01 | 15°42 | 0♓20 | 13°44 | 4°56 | 5°53 | 28°41 | 25°34 | 23°45 | 26°32 | 22°21 | 22° 6 | 11°12 | 27°14 | T 8 |
| W 9 | 11 6 35 | 18°27'49 | 29°40 | 1°59 | 13°59 | 5°42 | 6° 7 | 28°46 | 25°37 | 23°47 | 26°32 | 22°11 | 22° 3 | 11°18 | 27°18 | W 9 |
| T 10 | 11 10 32 | 19°27'35 | 14♍ 2 | 3°39 | 14°15 | 6°28 | 6°21 | 28°52 | 25°40 | 23°48 | 26°32 | 22° 0 | 21°59 | 11°25 | 27°22 | T 10 |
| F 11 | 11 14 28 | 20°27'19 | 28°42 | 5°20 | 14°33 | 7°14 | 6°36 | 28°57 | 25°43 | 23°49 | 26°D32 | 21°48 | 21°56 | 11°32 | 27°25 | F 11 |
| S 12 | 11 18 25 | 21°27'01 | 13♎32 | 7° 3 | 14°54 | 8° 0 | 6°50 | 29° 2 | 25°47 | 23°51 | 26°32 | 21°37 | 21°53 | 11°38 | 27°29 | S 12 |
| S 13 | 11 22 21 | 22°26'41 | 28°22 | 8°47 | 15°16 | 8°45 | 7° 4 | 29° 7 | 25°50 | 23°52 | 26°32 | 21°28 | 21°50 | 11°45 | 27°33 | S 13 |
| M14 | 11 26 18 | 23°26'19 | 13♏ 6 | 10°31 | 15°39 | 9°31 | 7°18 | 29°12 | 25°53 | 23°54 | 26°32 | 21°21 | 21°47 | 11°52 | 27°37 | M14 |
| T 15 | 11 30 14 | 24°25'56 | 27°37 | 12°18 | 16° 5 | 10°16 | 7°33 | 29°17 | 25°56 | 23°55 | 26°32 | 21°18 | 21°44 | 11°58 | 27°41 | T 15 |
| W16 | 11 34 11 | 25°25'31 | 11♐51 | 14° 5 | 16°32 | 11° 2 | 7°47 | 29°22 | 25°59 | 23°56 | 26°32 | 21°17 | 21°40 | 12° 5 | 27°45 | W16 |
| T 17 | 11 38 7 | 26°25'04 | 25°48 | 15°54 | 17° 1 | 11°47 | 8° 1 | 29°27 | 26° 2 | 23°58 | 26°32 | 21°17 | 21°37 | 12°12 | 27°49 | T 17 |
| F 18 | 11 42 4 | 27°24'35 | 9♑27 | 17°44 | 17°32 | 12°33 | 8°16 | 29°32 | 26° 5 | 23°59 | 26°32 | 21°16 | 21°34 | 12°18 | 27°52 | F 18 |
| S 19 | 11 46 0 | 28°24'05 | 22°51 | 19°35 | 18° 4 | 13°18 | 8°30 | 29°37 | 26° 8 | 24° 0 | 26°32 | 21°14 | 21°31 | 12°25 | 27°56 | S 19 |
| S 20 | 11 49 57 | 29°23'33 | 6♒ 0 | 21°28 | 18°37 | 14° 4 | 8°45 | 29°42 | 26°11 | 24° 1 | 26°33 | 21°10 | 21°28 | 12°32 | 28° 0 | S 20 |
| M21 | 11 53 54 | 0♈22'59 | 18°57 | 23°22 | 19°11 | 14°49 | 8°59 | 29°46 | 26°14 | 24° 3 | 26°33 | 21° 3 | 21°24 | 12°38 | 28° 3 | M21 |
| T 22 | 11 57 50 | 1°22'24 | 1♓42 | 25°17 | 19°47 | 15°34 | 9°14 | 29°51 | 26°17 | 24° 4 | 26°33 | 20°53 | 21°21 | 12°45 | 28° 7 | T 22 |
| W23 | 12 1 47 | 2°21'46 | 14°16 | 27°13 | 20°25 | 16°19 | 9°28 | 29°55 | 26°20 | 24° 5 | 26°33 | 20°41 | 21°18 | 12°52 | 28°11 | W23 |
| T 24 | 12 5 43 | 3°21'06 | 26°40 | 29°11 | 21° 3 | 17° 5 | 9°42 | 29°59 | 26°23 | 24° 6 | 26°34 | 20°27 | 21°15 | 12°58 | 28°14 | T 24 |
| F 25 | 12 9 40 | 4°20'24 | 8♈55 | 1♈ 9 | 21°43 | 17°50 | 9°57 | 0♒ 4 | 26°26 | 24° 7 | 26°34 | 20°14 | 21°12 | 13° 5 | 28°18 | F 25 |
| S 26 | 12 13 36 | 5°19'41 | 21° 0 | 3° 9 | 22°23 | 18°35 | 10°11 | 0° 8 | 26°29 | 24° 8 | 26°34 | 20° 1 | 21° 9 | 13°12 | 28°21 | S 26 |
| S 27 | 12 17 33 | 6°18'55 | 2♉57 | 5°10 | 23° 5 | 19°20 | 10°26 | 0°13 | 26°32 | 24° 9 | 26°35 | 19°51 | 21° 5 | 13°18 | 28°25 | S 27 |
| M28 | 12 21 29 | 7°18'06 | 14°48 | 7°12 | 23°48 | 20° 5 | 10°40 | 0°17 | 26°35 | 24°10 | 26°35 | 19°43 | 21° 2 | 13°25 | 28°28 | M28 |
| T 29 | 12 25 26 | 8°17'16 | 26°35 | 9°15 | 24°31 | 20°50 | 10°55 | 0°21 | 26°38 | 24°11 | 26°35 | 19°38 | 20°59 | 13°32 | 28°32 | T 29 |
| W30 | 12 29 23 | 9°16'24 | 8♊23 | 11°19 | 25°16 | 21°35 | 11° 9 | 0°25 | 26°40 | 24°12 | 26°36 | 19°35 | 20°56 | 13°38 | 28°35 | W30 |
| T 31 | 12 33 19 | 10♈15'29 | 20♊15 | 13♈23 | 26♒ 2 | 22♈20 | 11♈24 | 0♒29 | 26♒43 | 24♑13 | 26♊36 | 19°D35 | 20♊53 | 13♉45 | 28♒39 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s39 | 14n35 | 2s51 | 16s48 | 1s51 | 9s51 | 7n21 | 0s45 | 0s38 | 0n40 | 1s 7 | 20s44 | 0s 8 | 13s49 | 0s42 | 20s57 | 0n29 | 17n57 | 5s30 | 23n17 | 23n16 | 11n42 | 7s12 | 5n45 |
| W 2 | 7 16 | 18 20 | 1 56 | 16 23 | 1 55 | 10 0 | 7 13 | 0 26 | 0 37 | 0 45 | 1 7 | 20 43 | 0 8 | 13 48 | 0 42 | 20 57 | 0 29 | 17 57 | 5 30 | 23 17 | 23 16 | 11 44 | 7 11 | 5 45 |
| T 3 | 6 54 | 21 21 | 0 56 | 15 57 | 1 59 | 10 8 | 7 4 | 0 7 | 0 37 | 0 51 | 1 7 | 20 42 | 0 9 | 13 47 | 0 42 | 20 56 | 0 29 | 17 57 | 5 29 | 23 17 | 23 16 | 11 47 | 7 10 | 5 45 |
| F 4 | 6 31 | 23 29 | 0n 8 | 15 29 | 2 2 | 10 16 | 6 54 | 0n12 | 0 36 | 0 57 | 1 7 | 20 41 | 0 9 | 13 46 | 0 42 | 20 56 | 0 29 | 17 57 | 5 29 | 23 17 | 23 16 | 11 50 | 7 8 | 5 45 |
| S 5 | 6 7 | 24 32 | 1 13 | 15 0 | 2 5 | 10 24 | 6 45 | 0 31 | 0 36 | 1 2 | 1 7 | 20 40 | 0 9 | 13 44 | 0 42 | 20 56 | 0 29 | 17 57 | 5 29 | 23 17 | 23 15 | 11 52 | 7 7 | 5 45 |
| S 6 | 5 44 | 24 21 | 2 15 | 14 30 | 2 7 | 10 31 | 6 35 | 0 49 | 0 35 | 1 8 | 1 7 | 20 39 | 0 9 | 13 43 | 0 42 | 20 55 | 0 29 | 17 58 | 5 29 | 23 16 | 23 15 | 11 55 | 7 5 | 5 45 |
| M 7 | 5 21 | 22 51 | 3 13 | 13 58 | 2 9 | 10 38 | 6 25 | 1 8 | 0 34 | 1 14 | 1 7 | 20 38 | 0 9 | 13 42 | 0 42 | 20 55 | 0 29 | 17 58 | 5 29 | 23 16 | 23 15 | 11 58 | 7 4 | 5 45 |
| T 8 | 4 58 | 20 0 | 4 2 | 13 25 | 2 11 | 10 44 | 6 15 | 1 27 | 0 34 | 1 19 | 1 7 | 20 36 | 0 9 | 13 41 | 0 42 | 20 55 | 0 29 | 17 58 | 5 28 | 23 16 | 23 15 | 12 0 | 7 3 | 5 45 |
| W 9 | 4 34 | 15 56 | 4 38 | 12 51 | 2 12 | 10 50 | 6 5 | 1 46 | 0 33 | 1 25 | 1 7 | 20 35 | 0 9 | 13 40 | 0 42 | 20 55 | 0 29 | 17 58 | 5 28 | 23 15 | 23 15 | 12 3 | 7 1 | 5 46 |
| T 10 | 4 11 | 10 52 | 4 57 | 12 15 | 2 13 | 10 55 | 5 55 | 2 5 | 0 32 | 1 31 | 1 7 | 20 34 | 0 9 | 13 39 | 0 42 | 20 54 | 0 29 | 17 58 | 5 28 | 23 14 | 23 14 | 12 6 | 7 0 | 5 46 |
| F 11 | 3 47 | 5 4 | 4 58 | 11 38 | 2 14 | 10 59 | 5 45 | 2 23 | 0 32 | 1 36 | 1 6 | 20 33 | 0 9 | 13 38 | 0 42 | 20 54 | 0 29 | 17 58 | 5 28 | 23 14 | 23 14 | 12 8 | 6 58 | 5 46 |
| S 12 | 3 24 | 1s 4 | 4 39 | 11 0 | 2 13 | 11 3 | 5 35 | 2 42 | 0 31 | 1 42 | 1 6 | 20 32 | 0 9 | 13 37 | 0 42 | 20 54 | 0 29 | 17 59 | 5 28 | 23 13 | 23 14 | 12 11 | 6 57 | 5 46 |
| S 13 | 3 0 | 7 10 | 4 1 | 10 21 | 2 13 | 11 7 | 5 25 | 3 1 | 0 30 | 1 48 | 1 6 | 20 31 | 0 9 | 13 36 | 0 42 | 20 54 | 0 29 | 17 59 | 5 28 | 23 12 | 23 14 | 12 14 | 6 56 | 5 46 |
| M14 | 2 37 | 12 50 | 3 7 | 9 40 | 2 12 | 11 10 | 5 14 | 3 19 | 0 30 | 1 53 | 1 6 | 20 30 | 0 9 | 13 35 | 0 42 | 20 53 | 0 29 | 17 59 | 5 27 | 23 12 | 23 14 | 12 16 | 6 54 | 5 46 |
| T 15 | 2 13 | 17 41 | 2 2 | 8 58 | 2 10 | 11 12 | 5 4 | 3 38 | 0 29 | 1 59 | 1 6 | 20 30 | 0 10 | 13 34 | 0 42 | 20 53 | 0 29 | 17 59 | 5 27 | 23 12 | 23 13 | 12 19 | 6 53 | 5 46 |
| W16 | 1 49 | 21 26 | 0 50 | 8 15 | 2 9 | 11 14 | 4 54 | 3 56 | 0 29 | 2 5 | 1 6 | 20 29 | 0 10 | 13 33 | 0 42 | 20 53 | 0 29 | 17 59 | 5 27 | 23 12 | 23 13 | 12 22 | 6 51 | 5 46 |
| T 17 | 1 26 | 23 49 | 0s24 | 7 30 | 2 6 | 11 15 | 4 44 | 4 15 | 0 28 | 2 11 | 1 6 | 20 28 | 0 10 | 13 32 | 0 42 | 20 53 | 0 29 | 17 59 | 5 27 | 23 12 | 23 13 | 12 24 | 6 50 | 5 46 |
| F 18 | 1 2 | 24 43 | 1 35 | 6 45 | 2 3 | 11 16 | 4 34 | 4 33 | 0 27 | 2 16 | 1 6 | 20 27 | 0 10 | 13 31 | 0 42 | 20 52 | 0 29 | 18 0 | 5 27 | 23 12 | 23 13 | 12 27 | 6 49 | 5 46 |
| S 19 | 0 38 | 24 9 | 2 39 | 5 58 | 2 0 | 11 15 | 4 24 | 4 51 | 0 27 | 2 22 | 1 6 | 20 26 | 0 10 | 13 29 | 0 42 | 20 52 | 0 29 | 18 0 | 5 27 | 23 12 | 23 13 | 12 30 | 6 47 | 5 47 |
| S 20 | 0 15 | 22 14 | 3 33 | 5 10 | 1 56 | 11 15 | 4 14 | 5 9 | 0 26 | 2 28 | 1 6 | 20 25 | 0 10 | 13 28 | 0 42 | 20 52 | 0 29 | 18 0 | 5 26 | 23 11 | 23 12 | 12 32 | 6 46 | 5 47 |
| M21 | 0n 9 | 19 13 | 4 15 | 4 21 | 1 51 | 11 14 | 4 4 | 5 28 | 0 25 | 2 33 | 1 6 | 20 24 | 0 10 | 13 27 | 0 42 | 20 52 | 0 29 | 18 0 | 5 26 | 23 11 | 23 12 | 12 35 | 6 44 | 5 47 |
| T 22 | 0 33 | 15 18 | 4 44 | 3 30 | 1 46 | 11 12 | 3 54 | 5 46 | 0 25 | 2 39 | 1 6 | 20 23 | 0 10 | 13 26 | 0 42 | 20 52 | 0 29 | 18 0 | 5 26 | 23 10 | 23 12 | 12 38 | 6 43 | 5 47 |
| W23 | 0 56 | 10 47 | 4 58 | 2 39 | 1 41 | 11 9 | 3 45 | 6 4 | 0 24 | 2 45 | 1 6 | 20 22 | 0 10 | 13 25 | 0 42 | 20 51 | 0 29 | 18 1 | 5 26 | 23 9 | 23 12 | 12 40 | 6 42 | 5 47 |
| T 24 | 1 20 | 5 53 | 4 59 | 1 46 | 1 35 | 11 6 | 3 35 | 6 22 | 0 23 | 2 51 | 1 6 | 20 21 | 0 10 | 13 24 | 0 42 | 20 51 | 0 29 | 18 1 | 5 26 | 23 8 | 23 12 | 12 43 | 6 40 | 5 47 |
| F 25 | 1 44 | 0 50 | 4 45 | 0 53 | 1 28 | 11 3 | 3 26 | 6 39 | 0 23 | 2 56 | 1 6 | 20 21 | 0 10 | 13 24 | 0 42 | 20 51 | 0 29 | 18 1 | 5 25 | 23 7 | 23 11 | 12 46 | 6 39 | 5 47 |
| S 26 | 2 7 | 4n13 | 4 18 | 0n 1 | 1 21 | 10 59 | 3 16 | 6 57 | 0 22 | 3 2 | 1 6 | 20 20 | 0 11 | 13 23 | 0 43 | 20 51 | 0 29 | 18 1 | 5 25 | 23 6 | 23 11 | 12 48 | 6 38 | 5 48 |
| S 27 | 2 31 | 9 4 | 3 41 | 0 56 | 1 13 | 10 54 | 3 7 | 7 15 | 0 21 | 3 8 | 1 6 | 20 19 | 0 11 | 13 22 | 0 43 | 20 51 | 0 29 | 18 1 | 5 25 | 23 6 | 23 11 | 12 51 | 6 36 | 5 48 |
| M28 | 2 54 | 13 32 | 2 54 | 1 52 | 1 5 | 10 49 | 2 58 | 7 33 | 0 21 | 3 13 | 1 6 | 20 18 | 0 11 | 13 21 | 0 43 | 20 50 | 0 29 | 18 1 | 5 25 | 23 5 | 23 11 | 12 54 | 6 35 | 5 48 |
| T 29 | 3 18 | 17 30 | 1 59 | 2 48 | 0 57 | 10 43 | 2 49 | 7 50 | 0 20 | 3 19 | 1 6 | 20 17 | 0 11 | 13 20 | 0 43 | 20 50 | 0 29 | 18 2 | 5 25 | 23 5 | 23 11 | 12 56 | 6 34 | 5 48 |
| W30 | 3 41 | 20 46 | 0 59 | 3 45 | 0 48 | 10 36 | 2 40 | 8 8 | 0 19 | 3 25 | 1 6 | 20 17 | 0 11 | 13 19 | 0 43 | 20 50 | 0 29 | 18 2 | 5 25 | 23 4 | 23 10 | 12 59 | 6 32 | 5 48 |
| T 31 | 4n 4 | 23n11 | 0n 4 | 4n43 | 0s38 | 10s29 | 2n31 | 8n25 | 0s19 | 3n30 | 1s 6 | 20s16 | 0s11 | 13s18 | 0s43 | 20s50 | 0n29 | 18n 2 | 5s24 | 23n 4 | 23n10 | 13n 2 | 6s31 | 5n48 |

Julian Day Number = 2329978.5, Delta T = 31.58 sec
Ecliptic obliquity = 23°28'59, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'40, Lahiri = 19°12'40Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## APRIL 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 37 16 | 11♈14'32 | 2♋17 | 15♈28 | 26♒48 | 23♈ 4 | 11♈38 | 0♒32 | 26♒46 | 24♉14 | 26♊37 | 19♊35 | 20♊50 | 13♉52 | 28♒42 | F 1 |
| S 2 | 12 41 12 | 12°13'33 | 14°34 | 17°32 | 27°35 | 23°49 | 11°53 | 0°36 | 26°49 | 24°14 | 26°37 | 19°R35 | 20°46 | 13°58 | 28°45 | S 2 |
| S 3 | 12 45 9 | 13°12'31 | 27°11 | 19°37 | 28°23 | 24°34 | 12° 7 | 0°40 | 26°51 | 24°15 | 26°38 | 19°34 | 20°43 | 14° 5 | 28°48 | S 3 |
| M 4 | 12 49 5 | 14°11'27 | 10♌13 | 21°41 | 29°12 | 25°18 | 12°22 | 0°43 | 26°54 | 24°16 | 26°38 | 19°31 | 20°40 | 14°12 | 28°52 | M 4 |
| T 5 | 12 53 2 | 15°10'21 | 23°43 | 23°45 | 0♓ 2 | 26° 3 | 12°36 | 0°47 | 26°56 | 24°17 | 26°39 | 19°26 | 20°37 | 14°18 | 28°55 | T 5 |
| W 6 | 12 56 58 | 16° 9'12 | 7♍42 | 25°48 | 0°52 | 26°48 | 12°51 | 0°50 | 26°59 | 24°17 | 26°40 | 19°19 | 20°34 | 14°25 | 28°58 | W 6 |
| T 7 | 13 0 55 | 17° 8'01 | 22°10 | 27°49 | 1°43 | 27°32 | 13° 5 | 0°53 | 27° 2 | 24°18 | 26°40 | 19°10 | 20°30 | 14°32 | 29° 1 | T 7 |
| F 8 | 13 4 52 | 18° 6'48 | 7♎ 0 | 29°49 | 2°35 | 28°16 | 13°20 | 0°57 | 27° 4 | 24°19 | 26°41 | 19° 0 | 20°27 | 14°39 | 29° 4 | F 8 |
| S 9 | 13 8 48 | 19° 5'33 | 22° 5 | 1♉47 | 3°27 | 29° 1 | 13°34 | 1° 0 | 27° 6 | 24°19 | 26°41 | 18°51 | 20°24 | 14°45 | 29° 7 | S 9 |
| S 10 | 13 12 45 | 20° 4'16 | 7♏15 | 3°42 | 4°20 | 29°45 | 13°48 | 1° 3 | 27° 9 | 24°20 | 26°42 | 18°44 | 20°21 | 14°52 | 29°10 | S 10 |
| M11 | 13 16 41 | 21° 2'57 | 22°20 | 5°35 | 5°13 | 0♉29 | 14° 3 | 1° 6 | 27°11 | 24°20 | 26°43 | 18°39 | 20°18 | 14°59 | 29°13 | M11 |
| T 12 | 13 20 38 | 22° 1'37 | 7♐11 | 7°25 | 6° 8 | 1°14 | 14°17 | 1° 9 | 27°14 | 24°21 | 26°43 | 18°37 | 20°15 | 15° 5 | 29°16 | T 12 |
| W13 | 13 24 34 | 23° 0'14 | 21°42 | 9°11 | 7° 2 | 1°58 | 14°32 | 1°11 | 27°16 | 24°21 | 26°44 | 18°D36 | 20°11 | 15°12 | 29°19 | W13 |
| T 14 | 13 28 31 | 23°58'50 | 5♑51 | 10°54 | 7°57 | 2°42 | 14°46 | 1°14 | 27°18 | 24°22 | 26°45 | 18°37 | 20° 8 | 15°19 | 29°22 | T 14 |
| F 15 | 13 32 27 | 24°57'25 | 19°36 | 12°34 | 8°53 | 3°26 | 15° 0 | 1°17 | 27°20 | 24°22 | 26°46 | 18°R38 | 20° 5 | 15°25 | 29°24 | F 15 |
| S 16 | 13 36 24 | 25°55'58 | 2♒58 | 14° 9 | 9°49 | 4°10 | 15°15 | 1°19 | 27°23 | 24°22 | 26°46 | 18°38 | 20° 2 | 15°32 | 29°27 | S 16 |
| S 17 | 13 40 21 | 26°54'29 | 16° 1 | 15°40 | 10°46 | 4°54 | 15°29 | 1°22 | 27°25 | 24°23 | 26°47 | 18°36 | 19°59 | 15°39 | 29°30 | S 17 |
| M18 | 13 44 17 | 27°52'58 | 28°47 | 17° 6 | 11°43 | 5°38 | 15°43 | 1°24 | 27°27 | 24°23 | 26°48 | 18°32 | 19°55 | 15°45 | 29°32 | M18 |
| T 19 | 13 48 14 | 28°51'26 | 11♓19 | 18°28 | 12°41 | 6°22 | 15°58 | 1°26 | 27°29 | 24°23 | 26°49 | 18°26 | 19°52 | 15°52 | 29°35 | T 19 |
| W20 | 13 52 10 | 29°49'52 | 23°39 | 19°46 | 13°38 | 7° 6 | 16°12 | 1°28 | 27°31 | 24°24 | 26°50 | 18°18 | 19°49 | 15°59 | 29°38 | W20 |
| T 21 | 13 56 7 | 0♉48'16 | 5♈49 | 20°58 | 14°37 | 7°50 | 16°26 | 1°30 | 27°33 | 24°24 | 26°51 | 18° 9 | 19°46 | 16° 5 | 29°40 | T 21 |
| F 22 | 14 0 3 | 1°46'39 | 17°52 | 22° 6 | 15°36 | 8°33 | 16°41 | 1°32 | 27°35 | 24°24 | 26°52 | 18° 0 | 19°43 | 16°12 | 29°42 | F 22 |
| S 23 | 14 4 0 | 2°45'00 | 29°48 | 23° 9 | 16°35 | 9°17 | 16°55 | 1°34 | 27°37 | 24°24 | 26°52 | 17°52 | 19°40 | 16°19 | 29°45 | S 23 |
| S 24 | 14 7 56 | 3°43'19 | 11♉39 | 24° 7 | 17°34 | 10° 1 | 17° 9 | 1°36 | 27°39 | 24°24 | 26°53 | 17°45 | 19°36 | 16°25 | 29°47 | S 24 |
| M25 | 14 11 53 | 4°41'36 | 23°28 | 25° 0 | 18°34 | 10°44 | 17°23 | 1°37 | 27°40 | 24°24 | 26°54 | 17°40 | 19°33 | 16°32 | 29°49 | M25 |
| T 26 | 14 15 49 | 5°39'51 | 5♊15 | 25°47 | 19°34 | 11°28 | 17°37 | 1°39 | 27°42 | 24°R24 | 26°55 | 17°37 | 19°30 | 16°39 | 29°52 | T 26 |
| W27 | 14 19 46 | 6°38'05 | 17° 5 | 26°30 | 20°35 | 12°11 | 17°51 | 1°40 | 27°44 | 24°24 | 26°56 | 17°D36 | 19°27 | 16°45 | 29°54 | W27 |
| T 28 | 14 23 43 | 7°36'16 | 28°59 | 27° 7 | 21°36 | 12°55 | 18° 5 | 1°42 | 27°46 | 24°24 | 26°57 | 17°37 | 19°24 | 16°52 | 29°56 | T 28 |
| F 29 | 14 27 39 | 8°34'26 | 11♋ 3 | 27°39 | 22°37 | 13°38 | 18°19 | 1°43 | 27°47 | 24°24 | 26°58 | 17°38 | 19°21 | 16°59 | 29°58 | F 29 |
| S 30 | 14 31 36 | 9♉32'34 | 23♋21 | 28♉ 5 | 23♓38 | 14♉21 | 18♈33 | 1♒44 | 27♒49 | 24♉24 | 26♊59 | 17♊40 | 19♊17 | 17♉ 5 | 0♓ 0 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n27 | 24n35 | 1n 7 | 5n40 | 0s28 | 10s22 | 2n23 | 8n42 | 0s18 | 3n36 | 1s 6 | 20s15 | 0s11 | 13s17 | 0s43 | 20s50 | 0n29 | 18n 2 | 5s24 | 23n 4 | 23n10 | 13n 4 | 6s30 | 5n49 |
| S 2 | 4 50 | 24 49 | 2 9 | 6 37 | 0 18 | 10 14 | 2 14 | 8 59 | 0 17 | 3 42 | 1 6 | 20 14 | 0 11 | 13 16 | 0 43 | 20 50 | 0 29 | 18 2 | 5 24 | 23 4 | 23 10 | 13 7 | 6 28 | 5 49 |
| S 3 | 5 13 | 23 48 | 3 6 | 7 35 | 0 7 | 10 5 | 2 6 | 9 16 | 0 17 | 3 48 | 1 6 | 20 14 | 0 11 | 13 15 | 0 43 | 20 50 | 0 29 | 18 3 | 5 24 | 23 4 | 23 9 | 13 9 | 6 27 | 5 49 |
| M 4 | 5 36 | 21 30 | 3 56 | 8 32 | 0n 4 | 9 56 | 1 58 | 9 33 | 0 16 | 3 53 | 1 6 | 20 13 | 0 11 | 13 14 | 0 43 | 20 49 | 0 29 | 18 3 | 5 24 | 23 4 | 23 9 | 13 12 | 6 26 | 5 49 |
| T 5 | 5 59 | 17 57 | 4 34 | 9 28 | 0 15 | 9 46 | 1 50 | 9 50 | 0 15 | 3 59 | 1 6 | 20 12 | 0 11 | 13 13 | 0 43 | 20 49 | 0 29 | 18 3 | 5 24 | 23 4 | 23 9 | 13 15 | 6 25 | 5 49 |
| W 6 | 6 22 | 13 18 | 4 58 | 10 23 | 0 26 | 9 36 | 1 42 | 10 7 | 0 15 | 4 4 | 1 6 | 20 12 | 0 12 | 13 13 | 0 43 | 20 49 | 0 29 | 18 3 | 5 23 | 23 3 | 23 9 | 13 17 | 6 23 | 5 50 |
| T 7 | 6 45 | 7 46 | 5 4 | 11 18 | 0 37 | 9 25 | 1 34 | 10 24 | 0 14 | 4 10 | 1 6 | 20 11 | 0 12 | 13 12 | 0 43 | 20 49 | 0 29 | 18 3 | 5 23 | 23 2 | 23 9 | 13 20 | 6 22 | 5 50 |
| F 8 | 7 7 | 1 39 | 4 49 | 12 11 | 0 48 | 9 14 | 1 26 | 10 40 | 0 14 | 4 16 | 1 6 | 20 11 | 0 12 | 13 11 | 0 43 | 20 49 | 0 29 | 18 4 | 5 23 | 23 2 | 23 8 | 13 23 | 6 21 | 5 50 |
| S 9 | 7 29 | 4s40 | 4 15 | 13 3 | 1 0 | 9 3 | 1 18 | 10 57 | 0 13 | 4 21 | 1 6 | 20 10 | 0 12 | 13 10 | 0 43 | 20 49 | 0 29 | 18 4 | 5 23 | 23 1 | 23 8 | 13 25 | 6 20 | 5 50 |
| S 10 | 7 52 | 10 46 | 3 22 | 13 53 | 1 11 | 8 50 | 1 11 | 11 13 | 0 12 | 4 27 | 1 6 | 20 9 | 0 12 | 13 9 | 0 43 | 20 49 | 0 29 | 18 4 | 5 23 | 23 0 | 23 8 | 13 28 | 6 18 | 5 50 |
| M11 | 8 14 | 16 12 | 2 16 | 14 41 | 1 21 | 8 38 | 1 4 | 11 29 | 0 12 | 4 33 | 1 6 | 20 9 | 0 12 | 13 9 | 0 43 | 20 49 | 0 29 | 18 4 | 5 23 | 23 0 | 23 8 | 13 30 | 6 17 | 5 51 |
| T 12 | 8 36 | 20 33 | 1 1 | 15 27 | 1 32 | 8 24 | 0 56 | 11 45 | 0 11 | 4 38 | 1 6 | 20 8 | 0 12 | 13 8 | 0 43 | 20 49 | 0 29 | 18 4 | 5 22 | 23 0 | 23 7 | 13 33 | 6 16 | 5 51 |
| W13 | 8 58 | 23 30 | 0s17 | 16 11 | 1 42 | 8 11 | 0 49 | 12 1 | 0 10 | 4 44 | 1 6 | 20 8 | 0 12 | 13 7 | 0 43 | 20 48 | 0 29 | 18 4 | 5 22 | 23 0 | 23 7 | 13 36 | 6 15 | 5 51 |
| T 14 | 9 19 | 24 52 | 1 31 | 16 53 | 1 51 | 7 57 | 0 42 | 12 17 | 0 10 | 4 49 | 1 6 | 20 7 | 0 12 | 13 6 | 0 43 | 20 48 | 0 29 | 18 5 | 5 22 | 23 0 | 23 7 | 13 38 | 6 14 | 5 51 |
| F 15 | 9 41 | 24 40 | 2 38 | 17 32 | 2 0 | 7 42 | 0 36 | 12 33 | 0 9 | 4 55 | 1 6 | 20 7 | 0 12 | 13 6 | 0 43 | 20 48 | 0 29 | 18 5 | 5 22 | 23 0 | 23 7 | 13 41 | 6 12 | 5 52 |
| S 16 | 10 2 | 23 1 | 3 35 | 18 9 | 2 8 | 7 27 | 0 29 | 12 48 | 0 8 | 5 0 | 1 6 | 20 6 | 0 13 | 13 5 | 0 43 | 20 48 | 0 29 | 18 5 | 5 22 | 23 0 | 23 6 | 13 44 | 6 11 | 5 52 |
| S 17 | 10 23 | 20 11 | 4 19 | 18 43 | 2 16 | 7 12 | 0 22 | 13 4 | 0 8 | 5 6 | 1 6 | 20 6 | 0 13 | 13 4 | 0 43 | 20 48 | 0 29 | 18 5 | 5 22 | 23 0 | 23 6 | 13 46 | 6 10 | 5 52 |
| M18 | 10 44 | 16 26 | 4 49 | 19 15 | 2 23 | 6 56 | 0 16 | 13 19 | 0 7 | 5 11 | 1 6 | 20 6 | 0 13 | 13 3 | 0 43 | 20 48 | 0 29 | 18 5 | 5 21 | 22 59 | 23 6 | 13 49 | 6 9 | 5 52 |
| T 19 | 11 5 | 12 1 | 5 5 | 19 44 | 2 29 | 6 40 | 0 10 | 13 34 | 0 6 | 5 17 | 1 6 | 20 5 | 0 13 | 13 3 | 0 43 | 20 48 | 0 29 | 18 5 | 5 21 | 22 59 | 23 6 | 13 51 | 6 8 | 5 53 |
| W20 | 11 26 | 7 12 | 5 6 | 20 10 | 2 34 | 6 23 | 0 4 | 13 49 | 0 6 | 5 22 | 1 6 | 20 5 | 0 13 | 13 2 | 0 43 | 20 48 | 0 29 | 18 6 | 5 21 | 22 58 | 23 6 | 13 54 | 6 7 | 5 53 |
| T 21 | 11 46 | 2 10 | 4 53 | 20 34 | 2 38 | 6 6 | 0s 2 | 14 4 | 0 5 | 5 28 | 1 6 | 20 4 | 0 13 | 13 1 | 0 43 | 20 48 | 0 29 | 18 6 | 5 21 | 22 57 | 23 5 | 13 57 | 6 6 | 5 53 |
| F 22 | 12 7 | 2n55 | 4 27 | 20 55 | 2 41 | 5 49 | 0 8 | 14 19 | 0 4 | 5 33 | 1 6 | 20 4 | 0 13 | 13 1 | 0 43 | 20 48 | 0 29 | 18 6 | 5 21 | 22 56 | 23 5 | 13 59 | 6 4 | 5 53 |
| S 23 | 12 27 | 7 50 | 3 49 | 21 14 | 2 44 | 5 31 | 0 14 | 14 33 | 0 4 | 5 39 | 1 6 | 20 4 | 0 13 | 13 0 | 0 43 | 20 48 | 0 29 | 18 6 | 5 21 | 22 56 | 23 5 | 14 2 | 6 3 | 5 54 |
| S 24 | 12 47 | 12 28 | 3 2 | 21 30 | 2 45 | 5 13 | 0 19 | 14 48 | 0 3 | 5 44 | 1 6 | 20 3 | 0 13 | 13 0 | 0 43 | 20 48 | 0 29 | 18 6 | 5 21 | 22 55 | 23 5 | 14 4 | 6 2 | 5 54 |
| M25 | 13 7 | 16 37 | 2 7 | 21 43 | 2 45 | 4 54 | 0 25 | 15 2 | 0 2 | 5 49 | 1 6 | 20 3 | 0 13 | 12 59 | 0 43 | 20 48 | 0 29 | 18 7 | 5 20 | 22 55 | 23 4 | 14 7 | 6 1 | 5 54 |
| T 26 | 13 26 | 20 7 | 1 7 | 21 54 | 2 44 | 4 36 | 0 30 | 15 16 | 0 2 | 5 55 | 1 6 | 20 3 | 0 14 | 12 58 | 0 43 | 20 48 | 0 29 | 18 7 | 5 20 | 22 54 | 23 4 | 14 10 | 6 0 | 5 55 |
| W27 | 13 45 | 22 48 | 0 3 | 22 2 | 2 42 | 4 17 | 0 35 | 15 30 | 0 1 | 6 0 | 1 6 | 20 3 | 0 14 | 12 58 | 0 43 | 20 48 | 0 29 | 18 7 | 5 20 | 22 54 | 23 4 | 14 12 | 5 59 | 5 55 |
| T 28 | 14 4 | 24 30 | 1n 2 | 22 8 | 2 39 | 3 57 | 0 40 | 15 44 | 0 1 | 6 5 | 1 6 | 20 2 | 0 14 | 12 57 | 0 44 | 20 48 | 0 29 | 18 7 | 5 20 | 22 54 | 23 4 | 14 15 | 5 58 | 5 55 |
| F 29 | 14 23 | 25 5 | 2 4 | 22 11 | 2 35 | 3 38 | 0 45 | 15 58 | 0n 0 | 6 11 | 1 6 | 20 2 | 0 14 | 12 57 | 0 44 | 20 48 | 0 29 | 18 7 | 5 20 | 22 54 | 23 3 | 14 17 | 5 57 | 5 55 |
| S 30 | 14n42 | 24n27 | 3n 2 | 22n12 | 2n30 | 3s18 | 0s50 | 16n11 | 0n 1 | 6n16 | 1s 6 | 20s 2 | 0s14 | 12s56 | 0s44 | 20s48 | 0n29 | 18n 7 | 5s20 | 22n55 | 23n 3 | 14n20 | 5s56 | 5n56 |

Julian Day Number = 2330009.5, Delta T = 31.53 sec
Ecliptic obliquity = 23°28'59, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'44, Lahiri = 19°12'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## MAY 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 35 32 | 10♉30'40 | 5♌56 | 28♉26 | 24♓40 | 15♉ 5 | 18♈47 | 1♒45 | 27♒51 | 24°R24 | 27♊ 0 | 17°R41 | 19♊14 | 17♉12 | 0♓ 2 | S 1 |
| M 2 | 14 39 29 | 11°28'43 | 18°54 | 28°42 | 25°42 | 15°48 | 19° 1 | 1°46 | 27°52 | 24♑24 | 27° 1 | 17♊41 | 19°11 | 17°19 | 0° 4 | M 2 |
| T 3 | 14 43 25 | 12°26'45 | 2♍18 | 28°53 | 26°44 | 16°31 | 19°15 | 1°47 | 27°54 | 24°23 | 27° 2 | 17°39 | 19° 8 | 17°25 | 0° 6 | T 3 |
| W 4 | 14 47 22 | 13°24'45 | 16°10 | 28°58 | 27°47 | 17°14 | 19°29 | 1°48 | 27°55 | 24°23 | 27° 4 | 17°36 | 19° 5 | 17°32 | 0° 8 | W 4 |
| T 5 | 14 51 18 | 14°22'43 | 0♎30 | 28°R58 | 28°49 | 17°57 | 19°43 | 1°49 | 27°56 | 24°23 | 27° 5 | 17°32 | 19° 1 | 17°39 | 0° 9 | T 5 |
| F 6 | 14 55 15 | 15°20'39 | 15°15 | 28°54 | 29°52 | 18°40 | 19°56 | 1°49 | 27°58 | 24°23 | 27° 6 | 17°27 | 18°58 | 17°45 | 0°11 | F 6 |
| S 7 | 14 59 12 | 16°18'34 | 0♏19 | 28°44 | 0♈56 | 19°23 | 20°10 | 1°50 | 27°59 | 24°22 | 27° 7 | 17°23 | 18°55 | 17°52 | 0°13 | S 7 |
| S 8 | 15 3 8 | 17°16'26 | 15°33 | 28°30 | 1°59 | 20° 6 | 20°24 | 1°50 | 28° 0 | 24°22 | 27° 8 | 17°20 | 18°52 | 17°59 | 0°14 | S 8 |
| M 9 | 15 7 5 | 18°14'18 | 0♐47 | 28°12 | 3° 3 | 20°49 | 20°37 | 1°51 | 28° 1 | 24°22 | 27° 9 | 17°17 | 18°49 | 18° 5 | 0°16 | M 9 |
| T 10 | 15 11 1 | 19°12'08 | 15°51 | 27°50 | 4° 7 | 21°32 | 20°51 | 1°51 | 28° 3 | 24°21 | 27°10 | 17°D17 | 18°46 | 18°12 | 0°17 | T 10 |
| W11 | 15 14 58 | 20° 9'56 | 0♑37 | 27°25 | 5°11 | 22°15 | 21° 4 | 1°51 | 28° 4 | 24°21 | 27°12 | 17°17 | 18°42 | 18°19 | 0°19 | W11 |
| T 12 | 15 18 54 | 21° 7'44 | 14°59 | 26°57 | 6°15 | 22°57 | 21°18 | 1°R51 | 28° 5 | 24°20 | 27°13 | 17°18 | 18°39 | 18°25 | 0°20 | T 12 |
| F 13 | 15 22 51 | 22° 5'30 | 28°55 | 26°26 | 7°20 | 23°40 | 21°31 | 1°51 | 28° 6 | 24°20 | 27°14 | 17°20 | 18°36 | 18°32 | 0°22 | F 13 |
| S 14 | 15 26 48 | 23° 3'15 | 12♒25 | 25°53 | 8°24 | 24°23 | 21°45 | 1°51 | 28° 7 | 24°19 | 27°15 | 17°21 | 18°33 | 18°39 | 0°23 | S 14 |
| S 15 | 15 30 44 | 24° 0'59 | 25°31 | 25°20 | 9°29 | 25° 5 | 21°58 | 1°50 | 28° 8 | 24°19 | 27°17 | 17°R21 | 18°30 | 18°45 | 0°24 | S 15 |
| M16 | 15 34 41 | 24°58'42 | 8♓15 | 24°45 | 10°34 | 25°48 | 22°11 | 1°50 | 28° 9 | 24°18 | 27°18 | 17°21 | 18°27 | 18°52 | 0°25 | M16 |
| T 17 | 15 38 37 | 25°56'24 | 20°42 | 24°11 | 11°40 | 26°30 | 22°25 | 1°49 | 28° 9 | 24°17 | 27°19 | 17°19 | 18°23 | 18°59 | 0°26 | T 17 |
| W18 | 15 42 34 | 26°54'04 | 2♈55 | 23°36 | 12°45 | 27°13 | 22°38 | 1°49 | 28°10 | 24°17 | 27°20 | 17°17 | 18°20 | 19° 5 | 0°27 | W18 |
| T 19 | 15 46 30 | 27°51'44 | 14°57 | 23° 3 | 13°51 | 27°55 | 22°51 | 1°48 | 28°11 | 24°16 | 27°22 | 17°14 | 18°17 | 19°12 | 0°28 | T 19 |
| F 20 | 15 50 27 | 28°49'22 | 26°52 | 22°32 | 14°57 | 28°37 | 23° 4 | 1°47 | 28°12 | 24°15 | 27°23 | 17°11 | 18°14 | 19°19 | 0°29 | F 20 |
| S 21 | 15 54 23 | 29°47'00 | 8♉42 | 22° 3 | 16° 3 | 29°20 | 23°17 | 1°47 | 28°12 | 24°15 | 27°24 | 17° 8 | 18°11 | 19°25 | 0°30 | S 21 |
| S 22 | 15 58 20 | 0♊44'36 | 20°30 | 21°36 | 17° 9 | 0♊ 2 | 23°30 | 1°46 | 28°13 | 24°14 | 27°26 | 17° 6 | 18° 7 | 19°32 | 0°31 | S 22 |
| M23 | 16 2 16 | 1°42'11 | 2♊19 | 21°13 | 18°15 | 0°44 | 23°43 | 1°45 | 28°13 | 24°13 | 27°27 | 17° 4 | 18° 4 | 19°39 | 0°32 | M23 |
| T 24 | 16 6 13 | 2°39'45 | 14° 9 | 20°53 | 19°21 | 1°26 | 23°56 | 1°43 | 28°14 | 24°12 | 27°28 | 17°D 4 | 18° 1 | 19°45 | 0°32 | T 24 |
| W25 | 16 10 10 | 3°37'18 | 26° 5 | 20°36 | 20°28 | 2° 8 | 24° 8 | 1°42 | 28°14 | 24°11 | 27°30 | 17° 4 | 17°58 | 19°52 | 0°33 | W25 |
| T 26 | 16 14 6 | 4°34'50 | 8♋ 7 | 20°24 | 21°35 | 2°50 | 24°21 | 1°41 | 28°15 | 24°10 | 27°31 | 17° 5 | 17°55 | 19°59 | 0°33 | T 26 |
| F 27 | 16 18 3 | 5°32'21 | 20°19 | 20°16 | 22°41 | 3°32 | 24°34 | 1°39 | 28°15 | 24°10 | 27°32 | 17° 6 | 17°52 | 20° 5 | 0°34 | F 27 |
| S 28 | 16 21 59 | 6°29'50 | 2♌43 | 20°D12 | 23°48 | 4°14 | 24°46 | 1°38 | 28°15 | 24° 9 | 27°34 | 17° 7 | 17°48 | 20°12 | 0°34 | S 28 |
| S 29 | 16 25 56 | 7°27'18 | 15°24 | 20°12 | 24°55 | 4°56 | 24°58 | 1°36 | 28°15 | 24° 8 | 27°35 | 17° 8 | 17°45 | 20°19 | 0°35 | S 29 |
| M30 | 16 29 52 | 8°24'45 | 28°23 | 20°17 | 26° 2 | 5°38 | 25°11 | 1°35 | 28°16 | 24° 7 | 27°36 | 17° 8 | 17°42 | 20°25 | 0°35 | M30 |
| T 31 | 16 33 49 | 9♊22'10 | 11♍43 | 20♉27 | 27♈10 | 6♊20 | 25♈23 | 1♒33 | 28♒16 | 24♑ 6 | 27♊38 | 17°R 8 | 17♊39 | 20♉32 | 0♓35 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n 0 | 22n35 | 3n53 | 22n11 | 2n24 | 2s57 | 0s54 | 16n25 | 0n 1 | 6n21 | 1s 6 | 20s 2 | 0s14 | 12s56 | 0s44 | 20s48 | 0n29 | 18n 7 | 5s20 | 22n55 | 23n 3 | 14n23 | 5s55 | 5n56 |
| M 2 | 15 18 | 19 31 | 4 34 | 22 7 | 2 16 | 2 37 | 0 59 | 16 38 | 0 2 | 6 26 | 1 6 | 20 2 | 0 14 | 12 55 | 0 44 | 20 48 | 0 29 | 18 8 | 5 19 | 22 55 | 23 2 | 14 25 | 5 54 | 5 56 |
| T 3 | 15 36 | 15 21 | 5 1 | 22 1 | 2 7 | 2 16 | 1 3 | 16 51 | 0 3 | 6 32 | 1 6 | 20 2 | 0 14 | 12 55 | 0 44 | 20 48 | 0 29 | 18 8 | 5 19 | 22 55 | 23 2 | 14 28 | 5 53 | 5 57 |
| W 4 | 15 54 | 10 15 | 5 12 | 21 52 | 1 57 | 1 55 | 1 7 | 17 4 | 0 3 | 6 37 | 1 6 | 20 2 | 0 14 | 12 54 | 0 44 | 20 48 | 0 29 | 18 8 | 5 19 | 22 54 | 23 2 | 14 30 | 5 53 | 5 57 |
| T 5 | 16 11 | 4 27 | 5 4 | 21 42 | 1 46 | 1 34 | 1 11 | 17 17 | 0 4 | 6 42 | 1 6 | 20 2 | 0 14 | 12 54 | 0 44 | 20 48 | 0 29 | 18 8 | 5 19 | 22 54 | 23 2 | 14 33 | 5 52 | 5 57 |
| F 6 | 16 28 | 1s46 | 4 36 | 21 29 | 1 34 | 1 12 | 1 15 | 17 29 | 0 5 | 6 47 | 1 7 | 20 2 | 0 15 | 12 53 | 0 44 | 20 48 | 0 29 | 18 8 | 5 19 | 22 53 | 23 1 | 14 35 | 5 51 | 5 57 |
| S 7 | 16 45 | 8 2 | 3 49 | 21 14 | 1 21 | 0 50 | 1 19 | 17 41 | 0 5 | 6 52 | 1 7 | 20 2 | 0 15 | 12 53 | 0 44 | 20 48 | 0 29 | 18 8 | 5 19 | 22 53 | 23 1 | 14 38 | 5 50 | 5 58 |
| S 8 | 17 1 | 13 54 | 2 45 | 20 57 | 1 7 | 0 28 | 1 23 | 17 54 | 0 6 | 6 57 | 1 7 | 20 2 | 0 15 | 12 53 | 0 44 | 20 48 | 0 29 | 18 9 | 5 19 | 22 53 | 23 1 | 14 41 | 5 49 | 5 58 |
| M 9 | 17 17 | 18 54 | 1 29 | 20 38 | 0 52 | 0 6 | 1 26 | 18 6 | 0 6 | 7 2 | 1 7 | 20 2 | 0 15 | 12 52 | 0 44 | 20 48 | 0 29 | 18 9 | 5 18 | 22 52 | 23 1 | 14 43 | 5 48 | 5 58 |
| T 10 | 17 33 | 22 36 | 0 8 | 20 18 | 0 36 | 0n16 | 1 30 | 18 18 | 0 7 | 7 7 | 1 7 | 20 2 | 0 15 | 12 52 | 0 44 | 20 48 | 0 29 | 18 9 | 5 18 | 22 52 | 23 0 | 14 46 | 5 47 | 5 59 |
| W11 | 17 49 | 24 42 | 1s13 | 19 57 | 0 20 | 0 38 | 1 33 | 18 29 | 0 8 | 7 12 | 1 7 | 20 2 | 0 15 | 12 51 | 0 44 | 20 48 | 0 29 | 18 9 | 5 18 | 22 52 | 23 0 | 14 48 | 5 47 | 5 59 |
| T 12 | 18 4 | 25 4 | 2 26 | 19 34 | 0 3 | 1 1 | 1 36 | 18 41 | 0 8 | 7 17 | 1 7 | 20 2 | 0 15 | 12 51 | 0 44 | 20 48 | 0 29 | 18 9 | 5 18 | 22 53 | 23 0 | 14 51 | 5 46 | 5 59 |
| F 13 | 18 19 | 23 50 | 3 29 | 19 10 | 0s14 | 1 24 | 1 39 | 18 52 | 0 9 | 7 22 | 1 7 | 20 2 | 0 15 | 12 51 | 0 44 | 20 49 | 0 29 | 18 9 | 5 18 | 22 53 | 23 0 | 14 53 | 5 45 | 6 0 |
| S 14 | 18 34 | 21 14 | 4 18 | 18 45 | 0 32 | 1 47 | 1 42 | 19 3 | 0 10 | 7 27 | 1 7 | 20 2 | 0 15 | 12 50 | 0 44 | 20 49 | 0 29 | 18 9 | 5 18 | 22 53 | 22 59 | 14 56 | 5 44 | 6 0 |
| S 15 | 18 49 | 17 37 | 4 52 | 18 20 | 0 49 | 2 10 | 1 45 | 19 14 | 0 10 | 7 32 | 1 7 | 20 2 | 0 16 | 12 50 | 0 44 | 20 49 | 0 29 | 18 10 | 5 18 | 22 53 | 22 59 | 14 58 | 5 44 | 6 0 |
| M16 | 19 3 | 13 17 | 5 11 | 17 55 | 1 7 | 2 33 | 1 47 | 19 25 | 0 11 | 7 37 | 1 7 | 20 3 | 0 16 | 12 50 | 0 44 | 20 49 | 0 29 | 18 10 | 5 18 | 22 53 | 22 59 | 15 1 | 5 43 | 6 1 |
| T 17 | 19 17 | 8 30 | 5 14 | 17 30 | 1 24 | 2 56 | 1 50 | 19 36 | 0 11 | 7 42 | 1 7 | 20 3 | 0 16 | 12 50 | 0 44 | 20 49 | 0 29 | 18 10 | 5 18 | 22 53 | 22 58 | 15 4 | 5 42 | 6 1 |
| W18 | 19 30 | 3 29 | 5 3 | 17 5 | 1 41 | 3 19 | 1 52 | 19 46 | 0 12 | 7 47 | 1 7 | 20 3 | 0 16 | 12 49 | 0 44 | 20 49 | 0 29 | 18 10 | 5 17 | 22 52 | 22 58 | 15 6 | 5 42 | 6 1 |
| T 19 | 19 43 | 1n37 | 4 39 | 16 41 | 1 57 | 3 43 | 1 55 | 19 56 | 0 13 | 7 51 | 1 7 | 20 3 | 0 16 | 12 49 | 0 44 | 20 49 | 0 29 | 18 10 | 5 17 | 22 52 | 22 58 | 15 9 | 5 41 | 6 1 |
| F 20 | 19 56 | 6 36 | 4 3 | 16 18 | 2 12 | 4 6 | 1 57 | 20 6 | 0 13 | 7 56 | 1 8 | 20 4 | 0 16 | 12 49 | 0 44 | 20 49 | 0 29 | 18 10 | 5 17 | 22 52 | 22 58 | 15 11 | 5 40 | 6 2 |
| S 21 | 20 8 | 11 19 | 3 16 | 15 57 | 2 27 | 4 30 | 1 59 | 20 16 | 0 14 | 8 1 | 1 8 | 20 4 | 0 16 | 12 49 | 0 44 | 20 49 | 0 29 | 18 10 | 5 17 | 22 52 | 22 57 | 15 14 | 5 40 | 6 2 |
| S 22 | 20 21 | 15 38 | 2 22 | 15 37 | 2 41 | 4 53 | 2 1 | 20 26 | 0 14 | 8 6 | 1 8 | 20 4 | 0 16 | 12 49 | 0 44 | 20 50 | 0 29 | 18 11 | 5 17 | 22 51 | 22 57 | 15 16 | 5 39 | 6 2 |
| M23 | 20 32 | 19 20 | 1 21 | 15 18 | 2 53 | 5 17 | 2 2 | 20 35 | 0 15 | 8 10 | 1 8 | 20 4 | 0 16 | 12 49 | 0 44 | 20 50 | 0 29 | 18 11 | 5 17 | 22 51 | 22 57 | 15 19 | 5 39 | 6 3 |
| T 24 | 20 44 | 22 16 | 0 16 | 15 2 | 3 5 | 5 41 | 2 4 | 20 44 | 0 16 | 8 15 | 1 8 | 20 5 | 0 17 | 12 48 | 0 45 | 20 50 | 0 29 | 18 11 | 5 17 | 22 51 | 22 57 | 15 21 | 5 38 | 6 3 |
| W25 | 20 55 | 24 15 | 0n50 | 14 47 | 3 16 | 6 4 | 2 5 | 20 54 | 0 16 | 8 19 | 1 8 | 20 5 | 0 17 | 12 48 | 0 45 | 20 50 | 0 29 | 18 11 | 5 17 | 22 51 | 22 56 | 15 24 | 5 38 | 6 3 |
| T 26 | 21 6 | 25 8 | 1 54 | 14 35 | 3 25 | 6 28 | 2 7 | 21 2 | 0 17 | 8 24 | 1 8 | 20 6 | 0 17 | 12 48 | 0 45 | 20 50 | 0 29 | 18 11 | 5 17 | 22 51 | 22 56 | 15 26 | 5 37 | 6 4 |
| F 27 | 21 16 | 24 49 | 2 54 | 14 25 | 3 33 | 6 51 | 2 8 | 21 11 | 0 17 | 8 29 | 1 8 | 20 6 | 0 17 | 12 48 | 0 45 | 20 50 | 0 29 | 18 11 | 5 16 | 22 51 | 22 56 | 15 29 | 5 37 | 6 4 |
| S 28 | 21 26 | 23 16 | 3 47 | 14 17 | 3 40 | 7 15 | 2 9 | 21 20 | 0 18 | 8 33 | 1 8 | 20 6 | 0 17 | 12 48 | 0 45 | 20 50 | 0 29 | 18 11 | 5 16 | 22 51 | 22 55 | 15 31 | 5 36 | 6 4 |
| S 29 | 21 36 | 20 33 | 4 30 | 14 12 | 3 46 | 7 39 | 2 10 | 21 28 | 0 19 | 8 38 | 1 8 | 20 7 | 0 17 | 12 48 | 0 45 | 20 51 | 0 29 | 18 11 | 5 16 | 22 52 | 22 55 | 15 34 | 5 36 | 6 5 |
| M30 | 21 45 | 16 45 | 5 1 | 14 8 | 3 51 | 8 2 | 2 11 | 21 36 | 0 19 | 8 42 | 1 8 | 20 7 | 0 17 | 12 48 | 0 45 | 20 51 | 0 29 | 18 12 | 5 16 | 22 52 | 22 55 | 15 36 | 5 35 | 6 5 |
| T 31 | 21n54 | 12n 3 | 5n16 | 14n 8 | 3s54 | 8n25 | 2s12 | 21n44 | 0n20 | 8n46 | 1s 9 | 20s 8 | 0s17 | 12s48 | 0s45 | 20s51 | 0n29 | 18n12 | 5s16 | 22n52 | 22n54 | 15n39 | 5s35 | 6n 5 |

Julian Day Number = 2330039.5, Delta T = 31.47 sec
Ecliptic obliquity = 23°28'59, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'48, Lahiri = 19°12'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## JUNE 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 37 46 | 10♊19'35 | 25♍27 | 20♉40 | 28♈17 | 7♊ 1 | 25♈35 | 1°R31 | 28♒16 | 24°R 5 | 27♊39 | 17°R 8 | 17♊36 | 20♉38 | 0♓35 | W 1 |
| T 2 | 16 41 42 | 11°16'58 | 9♎35 | 20°59 | 29°25 | 7°43 | 25°48 | 1♒29 | 28°R16 | 24♑ 4 | 27°41 | 17♊ 8 | 17°33 | 20°45 | 0°36 | T 2 |
| F 3 | 16 45 39 | 12°14'20 | 24° 6 | 21°22 | 0♉32 | 8°25 | 26° 0 | 1°27 | 28°16 | 24° 2 | 27°42 | 17° 7 | 17°29 | 20°52 | 0°36 | F 3 |
| S 4 | 16 49 35 | 13°11'41 | 8♏55 | 21°49 | 1°40 | 9° 6 | 26°12 | 1°25 | 28°16 | 24° 1 | 27°43 | 17° 7 | 17°26 | 20°58 | 0°R36 | S 4 |
| S 5 | 16 53 32 | 14° 9'01 | 23°57 | 22°20 | 2°48 | 9°48 | 26°24 | 1°23 | 28°16 | 24° 0 | 27°45 | 17° 6 | 17°23 | 21° 5 | 0°36 | S 5 |
| M 6 | 16 57 28 | 15° 6'20 | 9♐ 4 | 22°56 | 3°56 | 10°29 | 26°35 | 1°20 | 28°16 | 23°59 | 27°46 | 17° 6 | 17°20 | 21°12 | 0°35 | M 6 |
| T 7 | 17 1 25 | 16° 3'38 | 24° 6 | 23°35 | 5° 4 | 11°11 | 26°47 | 1°18 | 28°15 | 23°58 | 27°48 | 17°D 6 | 17°17 | 21°18 | 0°35 | T 7 |
| W 8 | 17 5 21 | 17° 0'56 | 8♑55 | 24°19 | 6°12 | 11°52 | 26°59 | 1°16 | 28°15 | 23°57 | 27°49 | 17°R 6 | 17°13 | 21°25 | 0°35 | W 8 |
| T 9 | 17 9 18 | 17°58'13 | 23°24 | 25° 7 | 7°20 | 12°33 | 27°10 | 1°13 | 28°15 | 23°56 | 27°51 | 17° 6 | 17°10 | 21°32 | 0°35 | T 9 |
| F 10 | 17 13 15 | 18°55'30 | 7♒28 | 25°59 | 8°29 | 13°15 | 27°22 | 1°10 | 28°15 | 23°54 | 27°52 | 17° 6 | 17° 7 | 21°38 | 0°34 | F 10 |
| S 11 | 17 17 11 | 19°52'46 | 21° 7 | 26°54 | 9°37 | 13°56 | 27°33 | 1° 8 | 28°14 | 23°53 | 27°53 | 17° 6 | 17° 4 | 21°45 | 0°34 | S 11 |
| S 12 | 17 21 8 | 20°50'02 | 4♓19 | 27°54 | 10°46 | 14°37 | 27°45 | 1° 5 | 28°14 | 23°52 | 27°55 | 17° 5 | 17° 1 | 21°52 | 0°34 | S 12 |
| M13 | 17 25 4 | 21°47'17 | 17° 7 | 28°57 | 11°54 | 15°18 | 27°56 | 1° 2 | 28°13 | 23°50 | 27°56 | 17°D 5 | 16°58 | 21°58 | 0°33 | M13 |
| T 14 | 17 29 1 | 22°44'33 | 29°34 | 0♊ 3 | 13° 3 | 15°59 | 28° 7 | 0°59 | 28°13 | 23°49 | 27°58 | 17° 5 | 16°54 | 22° 5 | 0°33 | T 14 |
| W15 | 17 32 57 | 23°41'48 | 11♈46 | 1°13 | 14°12 | 16°40 | 28°18 | 0°56 | 28°12 | 23°48 | 27°59 | 17° 6 | 16°51 | 22°12 | 0°32 | W15 |
| T 16 | 17 36 54 | 24°39'02 | 23°45 | 2°27 | 15°21 | 17°21 | 28°29 | 0°53 | 28°11 | 23°46 | 28° 1 | 17° 6 | 16°48 | 22°18 | 0°31 | T 16 |
| F 17 | 17 40 50 | 25°36'17 | 5♉37 | 3°44 | 16°30 | 18° 2 | 28°40 | 0°50 | 28°11 | 23°45 | 28° 2 | 17° 7 | 16°45 | 22°25 | 0°30 | F 17 |
| S 18 | 17 44 47 | 26°33'32 | 17°25 | 5° 5 | 17°39 | 18°43 | 28°51 | 0°47 | 28°10 | 23°44 | 28° 4 | 17° 8 | 16°42 | 22°32 | 0°30 | S 18 |
| S 19 | 17 48 44 | 27°30'46 | 29°13 | 6°28 | 18°48 | 19°24 | 29° 1 | 0°43 | 28° 9 | 23°42 | 28° 5 | 17° 9 | 16°39 | 22°38 | 0°29 | S 19 |
| M20 | 17 52 40 | 28°28'00 | 11♊ 4 | 7°56 | 19°57 | 20° 5 | 29°12 | 0°40 | 28° 9 | 23°41 | 28° 6 | 17° 9 | 16°35 | 22°45 | 0°28 | M20 |
| T 21 | 17 56 37 | 29°25'14 | 23° 1 | 9°26 | 21° 7 | 20°46 | 29°22 | 0°37 | 28° 8 | 23°39 | 28° 8 | 17°R 9 | 16°32 | 22°52 | 0°27 | T 21 |
| W22 | 18 0 33 | 0♋22'28 | 5♋ 6 | 11° 0 | 22°16 | 21°27 | 29°33 | 0°33 | 28° 7 | 23°38 | 28° 9 | 17° 9 | 16°29 | 22°58 | 0°26 | W22 |
| T 23 | 18 4 30 | 1°19'41 | 17°22 | 12°37 | 23°25 | 22° 7 | 29°43 | 0°30 | 28° 6 | 23°37 | 28°11 | 17° 7 | 16°26 | 23° 5 | 0°25 | T 23 |
| F 24 | 18 8 26 | 2°16'54 | 29°48 | 14°18 | 24°35 | 22°48 | 29°53 | 0°26 | 28° 5 | 23°35 | 28°12 | 17° 5 | 16°23 | 23°12 | 0°24 | F 24 |
| S 25 | 18 12 23 | 3°14'07 | 12♌27 | 16° 1 | 25°45 | 23°29 | 0♉ 3 | 0°22 | 28° 4 | 23°34 | 28°14 | 17° 3 | 16°19 | 23°18 | 0°22 | S 25 |
| S 26 | 18 16 19 | 4°11'20 | 25°21 | 17°48 | 26°54 | 24° 9 | 0°13 | 0°19 | 28° 3 | 23°32 | 28°15 | 17° 1 | 16°16 | 23°25 | 0°21 | S 26 |
| M27 | 18 20 16 | 5° 8'32 | 8♍29 | 19°37 | 28° 4 | 24°50 | 0°22 | 0°15 | 28° 2 | 23°31 | 28°17 | 16°59 | 16°13 | 23°32 | 0°20 | M27 |
| T 28 | 18 24 13 | 6° 5'43 | 21°54 | 21°30 | 29°14 | 25°30 | 0°32 | 0°11 | 28° 0 | 23°29 | 28°18 | 16°58 | 16°10 | 23°38 | 0°18 | T 28 |
| W29 | 18 28 9 | 7° 2'55 | 5♎36 | 23°24 | 0♊24 | 26°11 | 0°42 | 0° 7 | 27°59 | 23°28 | 28°20 | 16°D57 | 16° 7 | 23°45 | 0°17 | W29 |
| T 30 | 18 32 6 | 8♋ 0'06 | 19♎35 | 25♊22 | 1♊34 | 26♊51 | 0♉51 | 0♒ 3 | 27♒58 | 23♑26 | 28♊21 | 16♊57 | 16♊ 4 | 23♉52 | 0♓16 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 22n 2 | 6n37 | 5n14 | 14n 9 | 3s57 | 8n49 | 2s13 | 21n51 | 0n20 | 8n51 | 1s 9 | 20s 8 | 0s17 | 12s48 | 0s45 | 20s51 | 0n29 | 18n12 | 5s16 | 22n52 | 22n54 | 15n41 | 5s35 | 6n 6 |
| T 2 | 22 10 | 0 41 | 4 53 | 14 12 | 3 58 | 9 12 | 2 14 | 21 59 | 0 21 | 8 55 | 1 9 | 20 9 | 0 17 | 12 48 | 0 45 | 20 51 | 0 29 | 18 12 | 5 16 | 22 52 | 22 54 | 15 44 | 5 34 | 6 6 |
| F 3 | 22 18 | 5s26 | 4 14 | 14 18 | 3 58 | 9 35 | 2 14 | 22 6 | 0 22 | 8 59 | 1 9 | 20 10 | 0 18 | 12 48 | 0 45 | 20 52 | 0 29 | 18 12 | 5 16 | 22 51 | 22 54 | 15 46 | 5 34 | 6 6 |
| S 4 | 22 25 | 11 23 | 3 17 | 14 25 | 3 58 | 9 58 | 2 15 | 22 13 | 0 22 | 9 3 | 1 9 | 20 10 | 0 18 | 12 48 | 0 45 | 20 52 | 0 29 | 18 12 | 5 16 | 22 51 | 22 53 | 15 49 | 5 34 | 6 7 |
| S 5 | 22 32 | 16 46 | 2 5 | 14 35 | 3 56 | 10 21 | 2 15 | 22 20 | 0 23 | 9 8 | 1 9 | 20 11 | 0 18 | 12 48 | 0 45 | 20 52 | 0 29 | 18 12 | 5 16 | 22 51 | 22 53 | 15 51 | 5 33 | 6 7 |
| M 6 | 22 39 | 21 7 | 0 45 | 14 46 | 3 54 | 10 44 | 2 15 | 22 27 | 0 23 | 9 12 | 1 9 | 20 11 | 0 18 | 12 48 | 0 45 | 20 52 | 0 29 | 18 12 | 5 16 | 22 51 | 22 53 | 15 54 | 5 33 | 6 7 |
| T 7 | 22 45 | 24 0 | 0s39 | 14 59 | 3 50 | 11 7 | 2 15 | 22 33 | 0 24 | 9 16 | 1 9 | 20 12 | 0 18 | 12 48 | 0 45 | 20 52 | 0 29 | 18 12 | 5 16 | 22 51 | 22 52 | 15 56 | 5 33 | 6 8 |
| W 8 | 22 51 | 25 9 | 1 58 | 15 14 | 3 46 | 11 29 | 2 15 | 22 39 | 0 25 | 9 20 | 1 10 | 20 13 | 0 18 | 12 48 | 0 45 | 20 52 | 0 29 | 18 12 | 5 15 | 22 51 | 22 52 | 15 59 | 5 33 | 6 8 |
| T 9 | 22 56 | 24 33 | 3 8 | 15 30 | 3 41 | 11 51 | 2 15 | 22 45 | 0 25 | 9 24 | 1 10 | 20 13 | 0 18 | 12 49 | 0 45 | 20 53 | 0 29 | 18 13 | 5 15 | 22 51 | 22 52 | 16 1 | 5 32 | 6 8 |
| F 10 | 23 1 | 22 23 | 4 5 | 15 48 | 3 35 | 12 13 | 2 15 | 22 51 | 0 26 | 9 28 | 1 10 | 20 14 | 0 18 | 12 49 | 0 45 | 20 53 | 0 29 | 18 13 | 5 15 | 22 51 | 22 51 | 16 4 | 5 32 | 6 9 |
| S 11 | 23 6 | 19 0 | 4 46 | 16 7 | 3 29 | 12 35 | 2 15 | 22 57 | 0 26 | 9 32 | 1 10 | 20 15 | 0 18 | 12 49 | 0 45 | 20 53 | 0 29 | 18 13 | 5 15 | 22 51 | 22 51 | 16 6 | 5 32 | 6 9 |
| S 12 | 23 10 | 14 45 | 5 10 | 16 27 | 3 22 | 12 57 | 2 14 | 23 2 | 0 27 | 9 36 | 1 10 | 20 15 | 0 19 | 12 49 | 0 45 | 20 53 | 0 29 | 18 13 | 5 15 | 22 51 | 22 51 | 16 9 | 5 32 | 6 9 |
| M13 | 23 14 | 9 58 | 5 18 | 16 48 | 3 14 | 13 19 | 2 14 | 23 7 | 0 27 | 9 40 | 1 10 | 20 16 | 0 19 | 12 49 | 0 45 | 20 54 | 0 29 | 18 13 | 5 15 | 22 51 | 22 51 | 16 11 | 5 32 | 6 10 |
| T 14 | 23 17 | 4 55 | 5 10 | 17 10 | 3 6 | 13 40 | 2 13 | 23 12 | 0 28 | 9 44 | 1 10 | 20 17 | 0 19 | 12 50 | 0 45 | 20 54 | 0 29 | 18 13 | 5 15 | 22 51 | 22 50 | 16 14 | 5 32 | 6 10 |
| W15 | 23 20 | 0n14 | 4 49 | 17 33 | 2 57 | 14 1 | 2 12 | 23 17 | 0 29 | 9 48 | 1 10 | 20 18 | 0 19 | 12 50 | 0 45 | 20 54 | 0 29 | 18 13 | 5 15 | 22 51 | 22 50 | 16 16 | 5 32 | 6 10 |
| T 16 | 23 22 | 5 17 | 4 15 | 17 57 | 2 48 | 14 22 | 2 12 | 23 22 | 0 29 | 9 51 | 1 11 | 20 18 | 0 19 | 12 50 | 0 45 | 20 54 | 0 29 | 18 13 | 5 15 | 22 51 | 22 50 | 16 19 | 5 32 | 6 10 |
| F 17 | 23 25 | 10 6 | 3 31 | 18 21 | 2 38 | 14 43 | 2 11 | 23 26 | 0 30 | 9 55 | 1 11 | 20 19 | 0 19 | 12 50 | 0 45 | 20 55 | 0 29 | 18 13 | 5 15 | 22 51 | 22 49 | 16 21 | 5 32 | 6 11 |
| S 18 | 23 26 | 14 32 | 2 38 | 18 46 | 2 27 | 15 3 | 2 10 | 23 30 | 0 30 | 9 59 | 1 11 | 20 20 | 0 19 | 12 51 | 0 45 | 20 55 | 0 29 | 18 13 | 5 15 | 22 52 | 22 49 | 16 24 | 5 32 | 6 11 |
| S 19 | 23 28 | 18 26 | 1 38 | 19 11 | 2 17 | 15 23 | 2 9 | 23 34 | 0 31 | 10 2 | 1 11 | 20 21 | 0 19 | 12 51 | 0 46 | 20 55 | 0 29 | 18 13 | 5 15 | 22 52 | 22 49 | 16 26 | 5 32 | 6 11 |
| M20 | 23 28 | 21 35 | 0 34 | 19 36 | 2 6 | 15 42 | 2 8 | 23 38 | 0 31 | 10 6 | 1 11 | 20 22 | 0 19 | 12 51 | 0 46 | 20 55 | 0 29 | 18 13 | 5 15 | 22 52 | 22 48 | 16 29 | 5 32 | 6 12 |
| T 21 | 23 29 | 23 50 | 0n32 | 20 1 | 1 54 | 16 2 | 2 7 | 23 41 | 0 32 | 10 9 | 1 11 | 20 22 | 0 20 | 12 52 | 0 46 | 20 56 | 0 29 | 18 14 | 5 15 | 22 52 | 22 48 | 16 31 | 5 32 | 6 12 |
| W22 | 23 29 | 25 1 | 1 38 | 20 26 | 1 43 | 16 21 | 2 5 | 23 45 | 0 32 | 10 13 | 1 11 | 20 23 | 0 20 | 12 52 | 0 46 | 20 56 | 0 29 | 18 14 | 5 15 | 22 52 | 22 48 | 16 34 | 5 32 | 6 12 |
| T 23 | 23 29 | 24 59 | 2 40 | 20 51 | 1 31 | 16 40 | 2 4 | 23 48 | 0 33 | 10 16 | 1 12 | 20 24 | 0 20 | 12 52 | 0 46 | 20 56 | 0 29 | 18 14 | 5 15 | 22 52 | 22 47 | 16 36 | 5 32 | 6 13 |
| F 24 | 23 28 | 23 43 | 3 35 | 21 15 | 1 19 | 16 58 | 2 3 | 23 51 | 0 33 | 10 20 | 1 12 | 20 25 | 0 20 | 12 53 | 0 46 | 20 56 | 0 29 | 18 14 | 5 15 | 22 51 | 22 47 | 16 38 | 5 32 | 6 13 |
| S 25 | 23 27 | 21 15 | 4 20 | 21 38 | 1 7 | 17 16 | 2 1 | 23 53 | 0 34 | 10 23 | 1 12 | 20 26 | 0 20 | 12 53 | 0 46 | 20 57 | 0 29 | 18 14 | 5 14 | 22 51 | 22 47 | 16 41 | 5 32 | 6 13 |
| S 26 | 23 25 | 17 42 | 4 53 | 22 0 | 0 55 | 17 34 | 2 0 | 23 56 | 0 35 | 10 27 | 1 12 | 20 27 | 0 20 | 12 53 | 0 46 | 20 57 | 0 29 | 18 14 | 5 14 | 22 51 | 22 46 | 16 43 | 5 32 | 6 13 |
| M27 | 23 23 | 13 13 | 5 12 | 22 22 | 0 43 | 17 51 | 1 58 | 23 58 | 0 35 | 10 30 | 1 12 | 20 28 | 0 20 | 12 54 | 0 46 | 20 57 | 0 29 | 18 14 | 5 14 | 22 51 | 22 46 | 16 46 | 5 33 | 6 14 |
| T 28 | 23 21 | 8 2 | 5 14 | 22 42 | 0 31 | 18 8 | 1 56 | 24 0 | 0 36 | 10 33 | 1 12 | 20 29 | 0 20 | 12 54 | 0 46 | 20 57 | 0 29 | 18 14 | 5 14 | 22 51 | 22 46 | 16 48 | 5 33 | 6 14 |
| W29 | 23 18 | 2 21 | 4 59 | 23 0 | 0 19 | 18 24 | 1 55 | 24 2 | 0 36 | 10 36 | 1 13 | 20 30 | 0 20 | 12 55 | 0 46 | 20 58 | 0 29 | 18 14 | 5 14 | 22 51 | 22 45 | 16 51 | 5 33 | 6 14 |
| T 30 | 23n14 | 3s34 | 4n26 | 23n17 | 0s 7 | 18n40 | 1s53 | 24n 3 | 0n37 | 10n39 | 1s13 | 20s31 | 0s20 | 12s55 | 0s46 | 20s58 | 0n29 | 18n14 | 5s14 | 22n51 | 22n45 | 16n53 | 5s33 | 6n14 |

Julian Day Number = 2330070.5, Delta T = 31.42 sec
Ecliptic obliquity = 23°28'59, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'53, Lahiri = 19°12'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## JULY 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 36 2 | 8♋57'17 | 3♏50 | 27♊22 | 2♊44 | 27♊31 | 1♉ 0 | 29°R59 | 27°R57 | 23°R24 | 28♊22 | 16♊58 | 16♊ 0 | 23♉58 | 0°R14 | F 1 |
| S 2 | 18 39 59 | 9°54'27 | 18°20 | 29°24 | 3°54 | 28°12 | 1°10 | 29♑55 | 27♒55 | 23♑23 | 28°24 | 17° 0 | 15°57 | 24° 5 | 0♓12 | S 2 |
| S 3 | 18 43 55 | 10°51'38 | 3♐ 1 | 1♋28 | 5° 4 | 28°52 | 1°19 | 29°51 | 27°54 | 23°21 | 28°25 | 17° 1 | 15°54 | 24°12 | 0°11 | S 3 |
| M 4 | 18 47 52 | 11°48'48 | 17°47 | 3°33 | 6°14 | 29°32 | 1°28 | 29°47 | 27°53 | 23°20 | 28°27 | 17°R 1 | 15°51 | 24°18 | 0° 9 | M 4 |
| T 5 | 18 51 48 | 12°45'59 | 2♑33 | 5°40 | 7°25 | 0♋12 | 1°36 | 29°43 | 27°51 | 23°18 | 28°28 | 17° 1 | 15°48 | 24°25 | 0° 7 | T 5 |
| W 6 | 18 55 45 | 13°43'10 | 17°10 | 7°48 | 8°35 | 0°53 | 1°45 | 29°39 | 27°50 | 23°17 | 28°30 | 16°59 | 15°45 | 24°32 | 0° 6 | W 6 |
| T 7 | 18 59 42 | 14°40'21 | 1♒34 | 9°57 | 9°46 | 1°33 | 1°54 | 29°35 | 27°48 | 23°15 | 28°31 | 16°56 | 15°41 | 24°38 | 0° 4 | T 7 |
| F 8 | 19 3 38 | 15°37'32 | 15°37 | 12° 6 | 10°56 | 2°13 | 2° 2 | 29°31 | 27°47 | 23°13 | 28°32 | 16°52 | 15°38 | 24°45 | 0° 2 | F 8 |
| S 9 | 19 7 35 | 16°34'43 | 29°18 | 14°15 | 12° 7 | 2°53 | 2°10 | 29°26 | 27°45 | 23°12 | 28°34 | 16°47 | 15°35 | 24°52 | 0° 0 | S 9 |
| S 10 | 19 11 31 | 17°31'55 | 12♓33 | 16°24 | 13°17 | 3°33 | 2°18 | 29°22 | 27°44 | 23°10 | 28°35 | 16°43 | 15°32 | 24°58 | 29♒58 | S 10 |
| M11 | 19 15 28 | 18°29'08 | 25°24 | 18°33 | 14°28 | 4°13 | 2°26 | 29°18 | 27°42 | 23° 9 | 28°37 | 16°40 | 15°29 | 25° 5 | 29°56 | M11 |
| T 12 | 19 19 24 | 19°26'21 | 7♈54 | 20°41 | 15°39 | 4°53 | 2°34 | 29°13 | 27°40 | 23° 7 | 28°38 | 16°38 | 15°25 | 25°11 | 29°54 | T 12 |
| W13 | 19 23 21 | 20°23'35 | 20° 7 | 22°48 | 16°50 | 5°32 | 2°42 | 29° 9 | 27°38 | 23° 5 | 28°39 | 16°D37 | 15°22 | 25°18 | 29°52 | W13 |
| T 14 | 19 27 18 | 21°20'50 | 2♉ 6 | 24°54 | 18° 1 | 6°12 | 2°49 | 29° 5 | 27°37 | 23° 4 | 28°41 | 16°38 | 15°19 | 25°25 | 29°50 | T 14 |
| F 15 | 19 31 14 | 22°18'05 | 13°57 | 26°59 | 19°12 | 6°52 | 2°57 | 29° 0 | 27°35 | 23° 2 | 28°42 | 16°39 | 15°16 | 25°31 | 29°48 | F 15 |
| S 16 | 19 35 11 | 23°15'21 | 25°46 | 29° 3 | 20°23 | 7°32 | 3° 4 | 28°56 | 27°33 | 23° 0 | 28°43 | 16°41 | 15°13 | 25°38 | 29°46 | S 16 |
| S 17 | 19 39 7 | 24°12'38 | 7♊35 | 1♌ 6 | 21°34 | 8°11 | 3°11 | 28°51 | 27°31 | 22°59 | 28°45 | 16°42 | 15°10 | 25°45 | 29°43 | S 17 |
| M18 | 19 43 4 | 25° 9'56 | 19°31 | 3° 7 | 22°45 | 8°51 | 3°18 | 28°47 | 27°29 | 22°57 | 28°46 | 16°R43 | 15° 6 | 25°51 | 29°41 | M18 |
| T 19 | 19 47 0 | 26° 7'14 | 1♋36 | 5° 6 | 23°56 | 9°31 | 3°25 | 28°43 | 27°27 | 22°56 | 28°47 | 16°41 | 15° 3 | 25°58 | 29°39 | T 19 |
| W20 | 19 50 57 | 27° 4'34 | 13°53 | 7° 4 | 25° 8 | 10°10 | 3°32 | 28°38 | 27°26 | 22°54 | 28°49 | 16°38 | 15° 0 | 26° 5 | 29°36 | W20 |
| T 21 | 19 54 53 | 28° 1'54 | 26°24 | 9° 0 | 26°19 | 10°50 | 3°38 | 28°34 | 27°24 | 22°52 | 28°50 | 16°34 | 14°57 | 26°11 | 29°34 | T 21 |
| F 22 | 19 58 50 | 28°59'14 | 9♌ 9 | 10°54 | 27°30 | 11°29 | 3°45 | 28°29 | 27°22 | 22°51 | 28°51 | 16°27 | 14°54 | 26°18 | 29°31 | F 22 |
| S 23 | 20 2 47 | 29°56'36 | 22° 9 | 12°47 | 28°42 | 12° 9 | 3°51 | 28°25 | 27°20 | 22°49 | 28°53 | 16°20 | 14°51 | 26°25 | 29°29 | S 23 |
| S 24 | 20 6 43 | 0♌53'58 | 5♍24 | 14°38 | 29°53 | 12°48 | 3°57 | 28°20 | 27°18 | 22°47 | 28°54 | 16°13 | 14°47 | 26°31 | 29°26 | S 24 |
| M25 | 20 10 40 | 1°51'20 | 18°51 | 16°28 | 1♋ 5 | 13°28 | 4° 3 | 28°16 | 27°15 | 22°46 | 28°55 | 16° 6 | 14°44 | 26°38 | 29°24 | M25 |
| T 26 | 20 14 36 | 2°48'43 | 2♎29 | 18°16 | 2°16 | 14° 7 | 4° 8 | 28°11 | 27°13 | 22°44 | 28°56 | 16° 1 | 14°41 | 26°45 | 29°21 | T 26 |
| W27 | 20 18 33 | 3°46'07 | 16°18 | 20° 2 | 3°28 | 14°46 | 4°14 | 28° 7 | 27°11 | 22°43 | 28°58 | 15°57 | 14°38 | 26°51 | 29°19 | W27 |
| T 28 | 20 22 29 | 4°43'31 | 0♏17 | 21°46 | 4°40 | 15°26 | 4°19 | 28° 3 | 27° 9 | 22°41 | 28°59 | 15°D56 | 14°35 | 26°58 | 29°16 | T 28 |
| F 29 | 20 26 26 | 5°40'56 | 14°23 | 23°29 | 5°52 | 16° 5 | 4°25 | 27°58 | 27° 7 | 22°39 | 29° 0 | 15°56 | 14°31 | 27° 5 | 29°13 | F 29 |
| S 30 | 20 30 22 | 6°38'21 | 28°37 | 25°10 | 7° 4 | 16°44 | 4°30 | 27°54 | 27° 5 | 22°38 | 29° 1 | 15°57 | 14°28 | 27°11 | 29°11 | S 30 |
| S 31 | 20 34 19 | 7♌35'48 | 12♐56 | 26♌50 | 8♋15 | 17♋23 | 4♉35 | 27♑50 | 27♒ 3 | 22♑36 | 29♊ 3 | 15°R58 | 14♊25 | 27♉18 | 29♒ 8 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n11 | 9s26 | 3n36 | 23n32 | 0n 4 | 18n56 | 1s51 | 24n 5 | 0n37 | 10n42 | 1s13 | 20s31 | 0s21 | 12s56 | 0s46 | 20s58 | 0n29 | 18n14 | 5s14 | 22n51 | 22n45 | 16n55 | 5s34 | 6n15 |
| S 2 | 23 7 | 14 53 | 2 32 | 23 44 | 0 15 | 19 11 | 1 49 | 24 6 | 0 38 | 10 45 | 1 13 | 20 32 | 0 21 | 12 56 | 0 46 | 20 58 | 0 29 | 18 14 | 5 14 | 22 51 | 22 44 | 16 58 | 5 34 | 6 15 |
| S 3 | 23 2 | 19 33 | 1 16 | 23 54 | 0 26 | 19 26 | 1 47 | 24 7 | 0 38 | 10 48 | 1 13 | 20 33 | 0 21 | 12 57 | 0 46 | 20 59 | 0 29 | 18 14 | 5 14 | 22 51 | 22 44 | 17 0 | 5 34 | 6 15 |
| M 4 | 22 57 | 22 59 | 0s 4 | 24 2 | 0 36 | 19 40 | 1 45 | 24 8 | 0 39 | 10 51 | 1 13 | 20 34 | 0 21 | 12 57 | 0 46 | 20 59 | 0 29 | 18 14 | 5 14 | 22 51 | 22 44 | 17 3 | 5 34 | 6 16 |
| T 5 | 22 52 | 24 52 | 1 24 | 24 7 | 0 46 | 19 54 | 1 43 | 24 8 | 0 39 | 10 54 | 1 14 | 20 35 | 0 21 | 12 58 | 0 46 | 20 59 | 0 29 | 18 14 | 5 14 | 22 51 | 22 43 | 17 5 | 5 35 | 6 16 |
| W 6 | 22 46 | 25 0 | 2 38 | 24 10 | 0 55 | 20 7 | 1 40 | 24 9 | 0 40 | 10 57 | 1 14 | 20 36 | 0 21 | 12 58 | 0 46 | 20 59 | 0 29 | 18 14 | 5 14 | 22 51 | 22 43 | 17 8 | 5 35 | 6 16 |
| T 7 | 22 40 | 23 26 | 3 41 | 24 10 | 1 3 | 20 20 | 1 38 | 24 9 | 0 40 | 11 0 | 1 14 | 20 37 | 0 21 | 12 59 | 0 46 | 21 0 | 0 29 | 18 14 | 5 14 | 22 50 | 22 43 | 17 10 | 5 36 | 6 16 |
| F 8 | 22 34 | 20 27 | 4 28 | 24 7 | 1 11 | 20 32 | 1 36 | 24 9 | 0 41 | 11 2 | 1 14 | 20 38 | 0 21 | 12 59 | 0 46 | 21 0 | 0 29 | 18 14 | 5 14 | 22 50 | 22 42 | 17 12 | 5 36 | 6 16 |
| S 9 | 22 27 | 16 24 | 4 59 | 24 1 | 1 18 | 20 44 | 1 34 | 24 9 | 0 41 | 11 5 | 1 14 | 20 39 | 0 21 | 13 0 | 0 46 | 21 0 | 0 29 | 18 14 | 5 14 | 22 50 | 22 42 | 17 15 | 5 37 | 6 17 |
| S 10 | 22 20 | 11 40 | 5 12 | 23 52 | 1 25 | 20 56 | 1 31 | 24 8 | 0 42 | 11 8 | 1 15 | 20 40 | 0 21 | 13 0 | 0 46 | 21 1 | 0 29 | 18 14 | 5 14 | 22 49 | 22 42 | 17 17 | 5 37 | 6 17 |
| M11 | 22 12 | 6 33 | 5 9 | 23 41 | 1 30 | 21 6 | 1 29 | 24 7 | 0 42 | 11 10 | 1 15 | 20 41 | 0 22 | 13 1 | 0 46 | 21 1 | 0 29 | 18 15 | 5 14 | 22 49 | 22 41 | 17 20 | 5 37 | 6 17 |
| T 12 | 22 4 | 1 20 | 4 52 | 23 27 | 1 35 | 21 17 | 1 26 | 24 7 | 0 43 | 11 13 | 1 15 | 20 42 | 0 22 | 13 2 | 0 46 | 21 1 | 0 29 | 18 15 | 5 14 | 22 49 | 22 41 | 17 22 | 5 38 | 6 17 |
| W13 | 21 56 | 3n50 | 4 21 | 23 11 | 1 39 | 21 26 | 1 24 | 24 5 | 0 43 | 11 15 | 1 15 | 20 43 | 0 22 | 13 2 | 0 46 | 21 1 | 0 29 | 18 15 | 5 14 | 22 49 | 22 41 | 17 24 | 5 39 | 6 18 |
| T 14 | 21 47 | 8 47 | 3 40 | 22 52 | 1 42 | 21 36 | 1 21 | 24 4 | 0 44 | 11 18 | 1 15 | 20 44 | 0 22 | 13 3 | 0 46 | 21 2 | 0 29 | 18 15 | 5 14 | 22 49 | 22 40 | 17 27 | 5 39 | 6 18 |
| F 15 | 21 38 | 13 22 | 2 49 | 22 31 | 1 45 | 21 44 | 1 19 | 24 3 | 0 44 | 11 20 | 1 15 | 20 45 | 0 22 | 13 4 | 0 46 | 21 2 | 0 29 | 18 15 | 5 14 | 22 49 | 22 40 | 17 29 | 5 40 | 6 18 |
| S 16 | 21 29 | 17 25 | 1 52 | 22 8 | 1 47 | 21 52 | 1 16 | 24 1 | 0 45 | 11 22 | 1 16 | 20 46 | 0 22 | 13 4 | 0 46 | 21 2 | 0 29 | 18 15 | 5 14 | 22 49 | 22 40 | 17 31 | 5 40 | 6 18 |
| S 17 | 21 19 | 20 48 | 0 50 | 21 42 | 1 48 | 22 0 | 1 13 | 23 59 | 0 45 | 11 25 | 1 16 | 20 47 | 0 22 | 13 5 | 0 46 | 21 3 | 0 29 | 18 15 | 5 14 | 22 49 | 22 39 | 17 34 | 5 41 | 6 18 |
| M18 | 21 8 | 23 19 | 0n15 | 21 15 | 1 48 | 22 6 | 1 11 | 23 57 | 0 46 | 11 27 | 1 16 | 20 48 | 0 22 | 13 6 | 0 46 | 21 3 | 0 29 | 18 15 | 5 14 | 22 49 | 22 39 | 17 36 | 5 41 | 6 19 |
| T 19 | 20 58 | 24 49 | 1 20 | 20 47 | 1 48 | 22 13 | 1 8 | 23 55 | 0 46 | 11 29 | 1 16 | 20 49 | 0 22 | 13 6 | 0 46 | 21 3 | 0 29 | 18 15 | 5 14 | 22 49 | 22 39 | 17 39 | 5 42 | 6 19 |
| W20 | 20 47 | 25 7 | 2 22 | 20 16 | 1 47 | 22 18 | 1 5 | 23 52 | 0 47 | 11 31 | 1 16 | 20 50 | 0 22 | 13 7 | 0 46 | 21 3 | 0 29 | 18 15 | 5 14 | 22 49 | 22 38 | 17 41 | 5 43 | 6 19 |
| T 21 | 20 36 | 24 10 | 3 19 | 19 44 | 1 46 | 22 23 | 1 2 | 23 50 | 0 47 | 11 33 | 1 17 | 20 51 | 0 22 | 13 8 | 0 47 | 21 4 | 0 29 | 18 15 | 5 14 | 22 48 | 22 38 | 17 43 | 5 43 | 6 19 |
| F 22 | 20 24 | 21 57 | 4 6 | 19 11 | 1 44 | 22 28 | 1 0 | 23 47 | 0 48 | 11 35 | 1 17 | 20 52 | 0 23 | 13 8 | 0 47 | 21 4 | 0 29 | 18 15 | 5 14 | 22 48 | 22 38 | 17 46 | 5 44 | 6 19 |
| S 23 | 20 12 | 18 35 | 4 42 | 18 37 | 1 41 | 22 32 | 0 57 | 23 44 | 0 48 | 11 37 | 1 17 | 20 53 | 0 23 | 13 9 | 0 47 | 21 4 | 0 29 | 18 15 | 5 14 | 22 47 | 22 37 | 17 48 | 5 45 | 6 19 |
| S 24 | 20 0 | 14 14 | 5 3 | 18 2 | 1 38 | 22 35 | 0 54 | 23 41 | 0 49 | 11 39 | 1 17 | 20 54 | 0 23 | 13 10 | 0 47 | 21 5 | 0 29 | 18 15 | 5 14 | 22 46 | 22 37 | 17 50 | 5 46 | 6 19 |
| M25 | 19 47 | 9 8 | 5 8 | 17 26 | 1 34 | 22 37 | 0 51 | 23 37 | 0 49 | 11 41 | 1 17 | 20 55 | 0 23 | 13 11 | 0 47 | 21 5 | 0 29 | 18 15 | 5 14 | 22 45 | 22 36 | 17 53 | 5 46 | 6 20 |
| T 26 | 19 34 | 3 32 | 4 56 | 16 49 | 1 30 | 22 39 | 0 48 | 23 34 | 0 50 | 11 42 | 1 18 | 20 56 | 0 23 | 13 11 | 0 47 | 21 5 | 0 29 | 18 15 | 5 14 | 22 45 | 22 36 | 17 55 | 5 47 | 6 20 |
| W27 | 19 21 | 2s19 | 4 26 | 16 11 | 1 25 | 22 41 | 0 45 | 23 30 | 0 50 | 11 44 | 1 18 | 20 57 | 0 23 | 13 12 | 0 47 | 21 5 | 0 29 | 18 15 | 5 14 | 22 44 | 22 36 | 17 57 | 5 48 | 6 20 |
| T 28 | 19 7 | 8 8 | 3 41 | 15 32 | 1 20 | 22 41 | 0 43 | 23 26 | 0 51 | 11 46 | 1 18 | 20 58 | 0 23 | 13 13 | 0 47 | 21 6 | 0 29 | 18 15 | 5 14 | 22 44 | 22 35 | 18 0 | 5 49 | 6 20 |
| F 29 | 18 53 | 13 37 | 2 42 | 14 53 | 1 15 | 22 41 | 0 40 | 23 22 | 0 51 | 11 47 | 1 18 | 20 59 | 0 23 | 13 14 | 0 47 | 21 6 | 0 29 | 18 15 | 5 14 | 22 44 | 22 35 | 18 2 | 5 49 | 6 20 |
| S 30 | 18 39 | 18 23 | 1 32 | 14 14 | 1 9 | 22 41 | 0 37 | 23 17 | 0 52 | 11 49 | 1 19 | 21 0 | 0 23 | 13 14 | 0 47 | 21 6 | 0 29 | 18 15 | 5 14 | 22 44 | 22 35 | 18 4 | 5 50 | 6 20 |
| S 31 | 18n24 | 22s 7 | 0n16 | 13n34 | 1n 2 | 22n40 | 0s34 | 23n13 | 0n52 | 11n50 | 1s19 | 21s 1 | 0s23 | 13s15 | 0s47 | 21s 6 | 0n29 | 18n15 | 5s14 | 22n45 | 22n34 | 18n 7 | 5s51 | 6n20 |

Julian Day Number = 2330100.5, Delta T = 31.36 sec
Ecliptic obliquity = 23°28'59, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'57, Lahiri = 19°12'57Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## AUGUST 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 38 16 | 8♌33'15 | 27♐18 | 28♌27 | 9♋27 | 18♋ 2 | 4♉39 | 27°R45 | 27°R 0 | 22°R35 | 29♊ 4 | 15°R58 | 14♊22 | 27♉25 | 29°R 5 | M 1 |
| T 2 | 20 42 12 | 9°30'43 | 11♑39 | 0♍ 4 | 10°39 | 18°41 | 4°44 | 27♑41 | 26♒58 | 22♑33 | 29° 5 | 15♊55 | 14°19 | 27°31 | 29♒ 2 | T 2 |
| W 3 | 20 46 9 | 10°28'11 | 25°55 | 1°38 | 11°52 | 19°20 | 4°48 | 27°37 | 26°56 | 22°32 | 29° 6 | 15°50 | 14°16 | 27°38 | 29° 0 | W 3 |
| T 4 | 20 50 5 | 11°25'41 | 10♒ 1 | 3°11 | 13° 4 | 19°59 | 4°52 | 27°32 | 26°54 | 22°30 | 29° 7 | 15°43 | 14°12 | 27°44 | 28°57 | T 4 |
| F 5 | 20 54 2 | 12°23'12 | 23°52 | 4°43 | 14°16 | 20°38 | 4°56 | 27°28 | 26°51 | 22°29 | 29° 8 | 15°35 | 14° 9 | 27°51 | 28°54 | F 5 |
| S 6 | 20 57 58 | 13°20'44 | 7♓24 | 6°12 | 15°28 | 21°17 | 5° 0 | 27°24 | 26°49 | 22°27 | 29° 9 | 15°25 | 14° 6 | 27°58 | 28°51 | S 6 |
| S 7 | 21 1 55 | 14°18'17 | 20°35 | 7°40 | 16°40 | 21°56 | 5° 4 | 27°20 | 26°47 | 22°26 | 29°11 | 15°16 | 14° 3 | 28° 4 | 28°48 | S 7 |
| M 8 | 21 5 51 | 15°15'52 | 3♈25 | 9° 7 | 17°53 | 22°35 | 5° 7 | 27°16 | 26°44 | 22°24 | 29°12 | 15° 8 | 14° 0 | 28°11 | 28°45 | M 8 |
| T 9 | 21 9 48 | 16°13'27 | 15°54 | 10°32 | 19° 5 | 23°14 | 5°10 | 27°12 | 26°42 | 22°23 | 29°13 | 15° 1 | 13°56 | 28°18 | 28°42 | T 9 |
| W10 | 21 13 45 | 17°11'05 | 28° 7 | 11°55 | 20°18 | 23°53 | 5°14 | 27° 8 | 26°40 | 22°21 | 29°14 | 14°57 | 13°53 | 28°24 | 28°40 | W10 |
| T 11 | 21 17 41 | 18° 8'44 | 10♉ 6 | 13°16 | 21°30 | 24°32 | 5°16 | 27° 4 | 26°37 | 22°20 | 29°15 | 14°55 | 13°50 | 28°31 | 28°37 | T 11 |
| F 12 | 21 21 38 | 19° 6'24 | 21°57 | 14°35 | 22°43 | 25°10 | 5°19 | 27° 0 | 26°35 | 22°19 | 29°16 | 14°D55 | 13°47 | 28°38 | 28°34 | F 12 |
| S 13 | 21 25 34 | 20° 4'06 | 3♊46 | 15°53 | 23°55 | 25°49 | 5°22 | 26°56 | 26°33 | 22°17 | 29°17 | 14°55 | 13°44 | 28°44 | 28°31 | S 13 |
| S 14 | 21 29 31 | 21° 1'50 | 15°37 | 17° 9 | 25° 8 | 26°28 | 5°24 | 26°52 | 26°30 | 22°16 | 29°18 | 14°R56 | 13°41 | 28°51 | 28°28 | S 14 |
| M15 | 21 33 27 | 21°59'36 | 27°36 | 18°23 | 26°21 | 27° 6 | 5°26 | 26°48 | 26°28 | 22°14 | 29°19 | 14°55 | 13°37 | 28°58 | 28°25 | M15 |
| T 16 | 21 37 24 | 22°57'23 | 9♋47 | 19°35 | 27°34 | 27°45 | 5°28 | 26°44 | 26°26 | 22°13 | 29°20 | 14°52 | 13°34 | 29° 4 | 28°22 | T 16 |
| W17 | 21 41 20 | 23°55'11 | 22°14 | 20°45 | 28°47 | 28°23 | 5°30 | 26°41 | 26°23 | 22°12 | 29°21 | 14°47 | 13°31 | 29°11 | 28°19 | W17 |
| T 18 | 21 45 17 | 24°53'02 | 4♌59 | 21°52 | 29°59 | 29° 2 | 5°31 | 26°37 | 26°21 | 22°10 | 29°22 | 14°39 | 13°28 | 29°18 | 28°16 | T 18 |
| F 19 | 21 49 14 | 25°50'53 | 18° 4 | 22°58 | 1♌12 | 29°40 | 5°33 | 26°33 | 26°18 | 22° 9 | 29°22 | 14°29 | 13°25 | 29°24 | 28°13 | F 19 |
| S 20 | 21 53 10 | 26°48'47 | 1♍26 | 24° 1 | 2°25 | 0♌19 | 5°34 | 26°30 | 26°16 | 22° 8 | 29°23 | 14°18 | 13°22 | 29°31 | 28°10 | S 20 |
| S 21 | 21 57 7 | 27°46'41 | 15° 6 | 25° 1 | 3°39 | 0°57 | 5°35 | 26°26 | 26°14 | 22° 7 | 29°24 | 14° 6 | 13°18 | 29°38 | 28° 7 | S 21 |
| M22 | 22 1 3 | 28°44'37 | 28°58 | 25°59 | 4°52 | 1°36 | 5°35 | 26°23 | 26°11 | 22° 5 | 29°25 | 13°56 | 13°15 | 29°44 | 28° 4 | M22 |
| T 23 | 22 5 0 | 29°42'35 | 12♎59 | 26°54 | 6° 5 | 2°14 | 5°36 | 26°19 | 26° 9 | 22° 4 | 29°26 | 13°47 | 13°12 | 29°51 | 28° 1 | T 23 |
| W24 | 22 8 56 | 0♍40'34 | 27° 5 | 27°47 | 7°18 | 2°52 | 5°36 | 26°16 | 26° 6 | 22° 3 | 29°27 | 13°41 | 13° 9 | 29°57 | 27°58 | W24 |
| T 25 | 22 12 53 | 1°38'34 | 11♏14 | 28°36 | 8°31 | 3°31 | 5°R36 | 26°13 | 26° 4 | 22° 2 | 29°27 | 13°38 | 13° 6 | 0♊ 4 | 27°55 | T 25 |
| F 26 | 22 16 49 | 2°36'36 | 25°23 | 29°22 | 9°45 | 4° 9 | 5°36 | 26°10 | 26° 2 | 22° 1 | 29°28 | 13°36 | 13° 2 | 0°11 | 27°52 | F 26 |
| S 27 | 22 20 46 | 3°34'39 | 9♐30 | 0♎ 4 | 10°58 | 4°47 | 5°36 | 26° 7 | 25°59 | 22° 0 | 29°29 | 13°36 | 12°59 | 0°17 | 27°49 | S 27 |
| S 28 | 22 24 43 | 4°32'43 | 23°35 | 0°43 | 12°11 | 5°25 | 5°36 | 26° 4 | 25°57 | 21°58 | 29°30 | 13°36 | 12°56 | 0°24 | 27°46 | S 28 |
| M29 | 22 28 39 | 5°30'49 | 7♑36 | 1°17 | 13°25 | 6° 3 | 5°35 | 26° 1 | 25°55 | 21°57 | 29°30 | 13°35 | 12°53 | 0°31 | 27°43 | M29 |
| T 30 | 22 32 36 | 6°28'56 | 21°33 | 1°47 | 14°38 | 6°41 | 5°34 | 25°58 | 25°52 | 21°56 | 29°31 | 13°31 | 12°50 | 0°37 | 27°40 | T 30 |
| W31 | 22 36 32 | 7♍27'05 | 5♒23 | 2♎13 | 15♌52 | 7♌19 | 5♉33 | 25♑55 | 25♒50 | 21♑55 | 29♊32 | 13♊24 | 12♊47 | 0♊44 | 27♒37 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18n 9 | 24s28 | 1s 1 | 12n54 | 0n56 | 22n38 | 0s31 | 23n 8 | 0n53 | 11n51 | 1s19 | 21s 2 | 0s23 | 13s16 | 0s47 | 21s 7 | 0n29 | 18n15 | 5s14 | 22n44 | 22n34 | 18n 9 | 5s52 | 6n20 |
| T 2 | 17 54 | 25 11 | 2 14 | 12 14 | 0 49 | 22 35 | 0 28 | 23 3 | 0 53 | 11 53 | 1 19 | 21 3 | 0 23 | 13 17 | 0 47 | 21 7 | 0 29 | 18 15 | 5 14 | 22 44 | 22 34 | 18 11 | 5 53 | 6 20 |
| W 3 | 17 39 | 24 14 | 3 17 | 11 34 | 0 42 | 22 32 | 0 25 | 22 58 | 0 54 | 11 54 | 1 19 | 21 4 | 0 24 | 13 17 | 0 47 | 21 7 | 0 29 | 18 15 | 5 14 | 22 44 | 22 33 | 18 14 | 5 54 | 6 21 |
| T 4 | 17 23 | 21 45 | 4 8 | 10 53 | 0 34 | 22 28 | 0 22 | 22 53 | 0 54 | 11 55 | 1 20 | 21 5 | 0 24 | 13 18 | 0 47 | 21 8 | 0 29 | 18 15 | 5 14 | 22 43 | 22 33 | 18 16 | 5 55 | 6 21 |
| F 5 | 17 7 | 18 3 | 4 44 | 10 12 | 0 26 | 22 24 | 0 19 | 22 48 | 0 55 | 11 56 | 1 20 | 21 6 | 0 24 | 13 19 | 0 47 | 21 8 | 0 29 | 18 15 | 5 14 | 22 42 | 22 32 | 18 18 | 5 55 | 6 21 |
| S 6 | 16 51 | 13 28 | 5 2 | 9 32 | 0 18 | 22 19 | 0 17 | 22 42 | 0 55 | 11 57 | 1 20 | 21 6 | 0 24 | 13 20 | 0 47 | 21 8 | 0 29 | 18 14 | 5 14 | 22 41 | 22 32 | 18 21 | 5 56 | 6 21 |
| S 7 | 16 34 | 8 23 | 5 4 | 8 52 | 0 10 | 22 13 | 0 14 | 22 36 | 0 56 | 11 58 | 1 20 | 21 7 | 0 24 | 13 21 | 0 47 | 21 8 | 0 29 | 18 14 | 5 14 | 22 40 | 22 32 | 18 23 | 5 57 | 6 21 |
| M 8 | 16 17 | 3 4 | 4 50 | 8 11 | 0 1 | 22 7 | 0 11 | 22 30 | 0 56 | 11 59 | 1 21 | 21 8 | 0 24 | 13 21 | 0 47 | 21 9 | 0 29 | 18 14 | 5 14 | 22 39 | 22 31 | 18 25 | 5 58 | 6 21 |
| T 9 | 16 0 | 2n14 | 4 22 | 7 31 | 0s 7 | 22 0 | 0 8 | 22 24 | 0 56 | 12 0 | 1 21 | 21 9 | 0 24 | 13 22 | 0 47 | 21 9 | 0 29 | 18 14 | 5 14 | 22 38 | 22 31 | 18 28 | 5 59 | 6 21 |
| W10 | 15 43 | 7 21 | 3 43 | 6 51 | 0 16 | 21 52 | 0 5 | 22 18 | 0 57 | 12 1 | 1 21 | 21 10 | 0 24 | 13 23 | 0 47 | 21 9 | 0 29 | 18 14 | 5 14 | 22 38 | 22 31 | 18 30 | 6 0 | 6 21 |
| T 11 | 15 25 | 12 6 | 2 55 | 6 12 | 0 25 | 21 44 | 0 2 | 22 12 | 0 57 | 12 2 | 1 21 | 21 11 | 0 24 | 13 24 | 0 47 | 21 9 | 0 29 | 18 14 | 5 15 | 22 38 | 22 30 | 18 32 | 6 1 | 6 21 |
| F 12 | 15 7 | 16 22 | 2 0 | 5 33 | 0 35 | 21 35 | 0n 1 | 22 5 | 0 58 | 12 2 | 1 21 | 21 12 | 0 24 | 13 25 | 0 47 | 21 10 | 0 29 | 18 14 | 5 15 | 22 38 | 22 30 | 18 35 | 6 2 | 6 21 |
| S 13 | 14 49 | 19 58 | 0 59 | 4 54 | 0 44 | 21 25 | 0 3 | 21 59 | 0 58 | 12 3 | 1 22 | 21 12 | 0 24 | 13 25 | 0 47 | 21 10 | 0 29 | 18 14 | 5 15 | 22 38 | 22 29 | 18 37 | 6 3 | 6 21 |
| S 14 | 14 31 | 22 46 | 0n 4 | 4 16 | 0 54 | 21 15 | 0 6 | 21 52 | 0 59 | 12 4 | 1 22 | 21 13 | 0 24 | 13 26 | 0 47 | 21 10 | 0 29 | 18 14 | 5 15 | 22 38 | 22 29 | 18 39 | 6 4 | 6 21 |
| M15 | 14 12 | 24 35 | 1 7 | 3 38 | 1 3 | 21 4 | 0 9 | 21 45 | 0 59 | 12 4 | 1 22 | 21 14 | 0 24 | 13 27 | 0 47 | 21 10 | 0 29 | 18 14 | 5 15 | 22 38 | 22 29 | 18 41 | 6 5 | 6 21 |
| T 16 | 13 53 | 25 15 | 2 8 | 3 1 | 1 13 | 20 53 | 0 12 | 21 37 | 1 0 | 12 4 | 1 22 | 21 15 | 0 24 | 13 28 | 0 47 | 21 11 | 0 29 | 18 14 | 5 15 | 22 37 | 22 28 | 18 44 | 6 6 | 6 21 |
| W17 | 13 34 | 24 41 | 3 5 | 2 25 | 1 23 | 20 41 | 0 14 | 21 30 | 1 0 | 12 5 | 1 23 | 21 16 | 0 25 | 13 29 | 0 47 | 21 11 | 0 29 | 18 14 | 5 15 | 22 37 | 22 28 | 18 46 | 6 7 | 6 21 |
| T 18 | 13 15 | 22 49 | 3 53 | 1 49 | 1 32 | 20 28 | 0 17 | 21 23 | 1 1 | 12 5 | 1 23 | 21 16 | 0 25 | 13 30 | 0 47 | 21 11 | 0 29 | 18 14 | 5 15 | 22 36 | 22 27 | 18 48 | 6 8 | 6 21 |
| F 19 | 12 56 | 19 44 | 4 31 | 1 14 | 1 42 | 20 15 | 0 20 | 21 15 | 1 1 | 12 5 | 1 23 | 21 17 | 0 25 | 13 30 | 0 47 | 21 11 | 0 29 | 18 14 | 5 15 | 22 35 | 22 27 | 18 50 | 6 9 | 6 21 |
| S 20 | 12 36 | 15 33 | 4 54 | 0 40 | 1 52 | 20 1 | 0 22 | 21 7 | 1 1 | 12 6 | 1 23 | 21 18 | 0 25 | 13 31 | 0 47 | 21 11 | 0 29 | 18 14 | 5 15 | 22 33 | 22 27 | 18 53 | 6 10 | 6 21 |
| S 21 | 12 16 | 10 31 | 5 1 | 0 7 | 2 2 | 19 47 | 0 25 | 20 59 | 1 2 | 12 6 | 1 23 | 21 19 | 0 25 | 13 32 | 0 47 | 21 12 | 0 29 | 18 14 | 5 15 | 22 32 | 22 26 | 18 55 | 6 11 | 6 21 |
| M22 | 11 56 | 4 52 | 4 51 | 0s25 | 2 12 | 19 32 | 0 27 | 20 51 | 1 2 | 12 6 | 1 24 | 21 19 | 0 25 | 13 33 | 0 47 | 21 12 | 0 29 | 18 14 | 5 15 | 22 31 | 22 26 | 18 57 | 6 12 | 6 21 |
| T 23 | 11 36 | 1s 5 | 4 24 | 0 56 | 2 22 | 19 16 | 0 30 | 20 43 | 1 3 | 12 6 | 1 24 | 21 20 | 0 25 | 13 34 | 0 47 | 21 12 | 0 29 | 18 14 | 5 15 | 22 30 | 22 26 | 18 59 | 6 14 | 6 21 |
| W24 | 11 15 | 7 2 | 3 40 | 1 26 | 2 31 | 19 0 | 0 32 | 20 35 | 1 3 | 12 6 | 1 24 | 21 21 | 0 25 | 13 34 | 0 47 | 21 12 | 0 28 | 18 14 | 5 15 | 22 29 | 22 25 | 19 2 | 6 15 | 6 21 |
| T 25 | 10 55 | 12 39 | 2 42 | 1 54 | 2 41 | 18 44 | 0 35 | 20 26 | 1 4 | 12 5 | 1 24 | 21 21 | 0 25 | 13 35 | 0 47 | 21 13 | 0 28 | 18 14 | 5 15 | 22 29 | 22 25 | 19 4 | 6 16 | 6 21 |
| F 26 | 10 34 | 17 36 | 1 35 | 2 21 | 2 50 | 18 27 | 0 37 | 20 18 | 1 4 | 12 5 | 1 25 | 21 22 | 0 25 | 13 36 | 0 47 | 21 13 | 0 28 | 18 14 | 5 15 | 22 29 | 22 24 | 19 6 | 6 17 | 6 20 |
| S 27 | 10 13 | 21 33 | 0 22 | 2 46 | 2 59 | 18 9 | 0 40 | 20 9 | 1 4 | 12 5 | 1 25 | 21 23 | 0 25 | 13 37 | 0 47 | 21 13 | 0 28 | 18 14 | 5 15 | 22 28 | 22 24 | 19 8 | 6 18 | 6 20 |
| S 28 | 9 52 | 24 12 | 0s53 | 3 10 | 3 8 | 17 51 | 0 42 | 20 0 | 1 5 | 12 5 | 1 25 | 21 23 | 0 25 | 13 38 | 0 47 | 21 13 | 0 28 | 18 14 | 5 15 | 22 28 | 22 24 | 19 11 | 6 19 | 6 20 |
| M29 | 9 30 | 25 19 | 2 3 | 3 31 | 3 17 | 17 32 | 0 44 | 19 51 | 1 5 | 12 4 | 1 25 | 21 24 | 0 25 | 13 38 | 0 47 | 21 13 | 0 28 | 18 14 | 5 15 | 22 28 | 22 23 | 19 13 | 6 20 | 6 20 |
| T 30 | 9 9 | 24 49 | 3 6 | 3 51 | 3 25 | 17 13 | 0 46 | 19 42 | 1 6 | 12 4 | 1 25 | 21 24 | 0 25 | 13 39 | 0 47 | 21 14 | 0 28 | 18 13 | 5 15 | 22 28 | 22 23 | 19 15 | 6 21 | 6 20 |
| W31 | 8n47 | 22s48 | 3s57 | 4s 8 | 3s33 | 16n53 | 0n49 | 19n32 | 1n 6 | 12n 3 | 1s26 | 21s25 | 0s25 | 13s40 | 0s47 | 21s14 | 0n28 | 18n13 | 5s16 | 22n27 | 22n22 | 19n17 | 6s22 | 6n20 |

Julian Day Number = 2330131.5, Delta T = 31.31 sec
Ecliptic obliquity = 23°28'59, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'01, Lahiri = 19°13'01Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## SEPTEMBER 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 40 29 | 8♍25'15 | 19♒ 5 | 2♎34 | 17♌ 5 | 7♌57 | 5°R32 | 25°R53 | 25°R48 | 21°R54 | 29♊32 | 13°R14 | 12♊43 | 0♊51 | 27°R34 | T 1 |
| F 2 | 22 44 25 | 9°23'27 | 2♓34 | 2°50 | 18°19 | 8°35 | 5♉30 | 25♏50 | 25♒45 | 21♏53 | 29°33 | 13♊ 3 | 12°40 | 0°57 | 27♒31 | F 2 |
| S 3 | 22 48 22 | 10°21'41 | 15°49 | 3° 0 | 19°33 | 9°13 | 5°29 | 25°47 | 25°43 | 21°52 | 29°34 | 12°50 | 12°37 | 1° 4 | 27°28 | S 3 |
| S 4 | 22 52 18 | 11°19'56 | 28°47 | 3°R 5 | 20°46 | 9°51 | 5°27 | 25°45 | 25°41 | 21°51 | 29°34 | 12°37 | 12°34 | 1°11 | 27°25 | S 4 |
| M 5 | 22 56 15 | 12°18'13 | 11♈28 | 3° 3 | 22° 0 | 10°29 | 5°25 | 25°43 | 25°38 | 21°51 | 29°35 | 12°26 | 12°31 | 1°17 | 27°22 | M 5 |
| T 6 | 23 0 11 | 13°16'33 | 23°53 | 2°55 | 23°14 | 11° 7 | 5°23 | 25°40 | 25°36 | 21°50 | 29°35 | 12°17 | 12°28 | 1°24 | 27°20 | T 6 |
| W 7 | 23 4 8 | 14°14'54 | 6♉ 2 | 2°41 | 24°28 | 11°45 | 5°20 | 25°38 | 25°34 | 21°49 | 29°36 | 12°10 | 12°24 | 1°31 | 27°17 | W 7 |
| T 8 | 23 8 5 | 15°13'17 | 18° 0 | 2°20 | 25°42 | 12°22 | 5°18 | 25°36 | 25°32 | 21°48 | 29°36 | 12° 6 | 12°21 | 1°37 | 27°14 | T 8 |
| F 9 | 23 12 1 | 16°11'43 | 29°50 | 1°52 | 26°56 | 13° 0 | 5°15 | 25°34 | 25°30 | 21°47 | 29°37 | 12° 5 | 12°18 | 1°44 | 27°11 | F 9 |
| S 10 | 23 15 58 | 17°10'10 | 11♊38 | 1°17 | 28°10 | 13°38 | 5°12 | 25°32 | 25°27 | 21°46 | 29°37 | 12° 4 | 12°15 | 1°50 | 27° 8 | S 10 |
| S 11 | 23 19 54 | 18° 8'40 | 23°29 | 0°36 | 29°24 | 14°16 | 5° 9 | 25°30 | 25°25 | 21°46 | 29°38 | 12° 4 | 12°12 | 1°57 | 27° 6 | S 11 |
| M12 | 23 23 51 | 19° 7'12 | 5♋28 | 29♍49 | 0♍38 | 14°53 | 5° 5 | 25°28 | 25°23 | 21°45 | 29°38 | 12° 3 | 12° 8 | 2° 4 | 27° 3 | M12 |
| T 13 | 23 27 47 | 20° 5'47 | 17°41 | 28°57 | 1°52 | 15°31 | 5° 2 | 25°27 | 25°21 | 21°44 | 29°39 | 12° 1 | 12° 5 | 2°10 | 27° 0 | T 13 |
| W14 | 23 31 44 | 21° 4'23 | 0♌13 | 27°59 | 3° 6 | 16° 8 | 4°58 | 25°25 | 25°19 | 21°44 | 29°39 | 11°56 | 12° 2 | 2°17 | 26°58 | W14 |
| T 15 | 23 35 40 | 22° 3'02 | 13° 6 | 26°58 | 4°20 | 16°46 | 4°54 | 25°24 | 25°17 | 21°43 | 29°39 | 11°48 | 11°59 | 2°24 | 26°55 | T 15 |
| F 16 | 23 39 37 | 23° 1'42 | 26°23 | 25°54 | 5°34 | 17°24 | 4°50 | 25°22 | 25°15 | 21°43 | 29°40 | 11°38 | 11°56 | 2°30 | 26°52 | F 16 |
| S 17 | 23 43 34 | 24° 0'25 | 10♍ 4 | 24°49 | 6°49 | 18° 1 | 4°45 | 25°21 | 25°13 | 21°42 | 29°40 | 11°27 | 11°53 | 2°37 | 26°50 | S 17 |
| S 18 | 23 47 30 | 24°59'10 | 24° 5 | 23°45 | 8° 3 | 18°38 | 4°41 | 25°20 | 25°11 | 21°41 | 29°40 | 11°15 | 11°49 | 2°44 | 26°47 | S 18 |
| M19 | 23 51 27 | 25°57'56 | 8♎23 | 22°42 | 9°17 | 19°16 | 4°36 | 25°19 | 25° 9 | 21°41 | 29°40 | 11° 4 | 11°46 | 2°50 | 26°45 | M19 |
| T 20 | 23 55 23 | 26°56'45 | 22°50 | 21°44 | 10°32 | 19°53 | 4°31 | 25°18 | 25° 7 | 21°41 | 29°41 | 10°55 | 11°43 | 2°57 | 26°42 | T 20 |
| W21 | 23 59 20 | 27°55'36 | 7♏21 | 20°50 | 11°46 | 20°31 | 4°26 | 25°17 | 25° 5 | 21°40 | 29°41 | 10°49 | 11°40 | 3° 4 | 26°40 | W21 |
| T 22 | 0 3 16 | 28°54'28 | 21°50 | 20° 3 | 13° 1 | 21° 8 | 4°21 | 25°16 | 25° 3 | 21°40 | 29°41 | 10°45 | 11°37 | 3°10 | 26°37 | T 22 |
| F 23 | 0 7 13 | 29°53'22 | 6♐13 | 19°24 | 14°15 | 21°45 | 4°16 | 25°15 | 25° 1 | 21°39 | 29°41 | 10°D44 | 11°33 | 3°17 | 26°35 | F 23 |
| S 24 | 0 11 9 | 0♎52'18 | 20°25 | 18°54 | 15°30 | 22°22 | 4°10 | 25°15 | 24°59 | 21°39 | 29°41 | 10°44 | 11°30 | 3°24 | 26°33 | S 24 |
| S 25 | 0 15 6 | 1°51'16 | 4♏28 | 18°33 | 16°44 | 22°59 | 4° 4 | 25°14 | 24°58 | 21°39 | 29°42 | 10°R44 | 11°27 | 3°30 | 26°30 | S 25 |
| M26 | 0 19 3 | 2°50'16 | 18°19 | 18°D23 | 17°59 | 23°37 | 3°59 | 25°14 | 24°56 | 21°38 | 29°42 | 10°43 | 11°24 | 3°37 | 26°28 | M26 |
| T 27 | 0 22 59 | 3°49'17 | 1♒59 | 18°23 | 19°13 | 24°14 | 3°53 | 25°14 | 24°54 | 21°38 | 29°42 | 10°40 | 11°21 | 3°43 | 26°26 | T 27 |
| W28 | 0 26 56 | 4°48'20 | 15°27 | 18°34 | 20°28 | 24°51 | 3°46 | 25°13 | 24°53 | 21°38 | 29°42 | 10°34 | 11°18 | 3°50 | 26°24 | W28 |
| T 29 | 0 30 52 | 5°47'25 | 28°45 | 18°54 | 21°43 | 25°28 | 3°40 | 25°13 | 24°51 | 21°38 | 29°42 | 10°26 | 11°14 | 3°57 | 26°22 | T 29 |
| F 30 | 0 34 49 | 6♎46'31 | 11♓51 | 19♍24 | 22♍57 | 26♌ 5 | 3♉34 | 25°D13 | 24♒49 | 21♏38 | 29°R42 | 10♊16 | 11♊11 | 4♊ 3 | 26♒20 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n26 | 19s28 | 4s34 | 4s23 | 3s40 | 16n33 | 0n51 | 19n23 | 1n 7 | 12n 2 | 1s26 | 21s26 | 0s25 | 13s41 | 0s47 | 21s14 | 0n28 | 18n13 | 5s16 | 22n26 | 22n22 | 19n20 | 6s23 | 6n20 |
| F 2 | 8 4 | 15 10 | 4 55 | 4 36 | 3 47 | 16 12 | 0 53 | 19 13 | 1 7 | 12 2 | 1 26 | 21 26 | 0 25 | 13 42 | 0 47 | 21 14 | 0 28 | 18 13 | 5 16 | 22 24 | 22 21 | 19 22 | 6 24 | 6 20 |
| S 3 | 7 42 | 10 12 | 5 0 | 4 46 | 3 53 | 15 51 | 0 55 | 19 4 | 1 7 | 12 1 | 1 26 | 21 27 | 0 26 | 13 42 | 0 47 | 21 14 | 0 28 | 18 13 | 5 16 | 22 23 | 22 21 | 19 24 | 6 26 | 6 19 |
| S 4 | 7 20 | 4 54 | 4 49 | 4 52 | 3 59 | 15 30 | 0 57 | 18 54 | 1 8 | 12 0 | 1 26 | 21 27 | 0 26 | 13 43 | 0 47 | 21 14 | 0 28 | 18 13 | 5 16 | 22 21 | 22 21 | 19 26 | 6 27 | 6 19 |
| M 5 | 6 57 | 0n31 | 4 23 | 4 56 | 4 3 | 15 8 | 0 59 | 18 44 | 1 8 | 11 59 | 1 27 | 21 28 | 0 26 | 13 44 | 0 47 | 21 15 | 0 28 | 18 13 | 5 16 | 22 20 | 22 20 | 19 28 | 6 28 | 6 19 |
| T 6 | 6 35 | 5 47 | 3 46 | 4 56 | 4 6 | 14 45 | 1 1 | 18 34 | 1 9 | 11 58 | 1 27 | 21 28 | 0 26 | 13 45 | 0 47 | 21 15 | 0 28 | 18 13 | 5 16 | 22 18 | 22 20 | 19 31 | 6 29 | 6 19 |
| W 7 | 6 13 | 10 45 | 2 58 | 4 52 | 4 9 | 14 22 | 1 3 | 18 24 | 1 9 | 11 57 | 1 27 | 21 29 | 0 26 | 13 45 | 0 47 | 21 15 | 0 28 | 18 13 | 5 16 | 22 18 | 22 19 | 19 33 | 6 30 | 6 19 |
| T 8 | 5 50 | 15 14 | 2 4 | 4 45 | 4 10 | 13 59 | 1 4 | 18 14 | 1 9 | 11 56 | 1 27 | 21 29 | 0 26 | 13 46 | 0 47 | 21 15 | 0 28 | 18 13 | 5 16 | 22 17 | 22 19 | 19 35 | 6 31 | 6 19 |
| F 9 | 5 27 | 19 6 | 1 4 | 4 33 | 4 9 | 13 36 | 1 6 | 18 3 | 1 10 | 11 55 | 1 27 | 21 29 | 0 26 | 13 47 | 0 47 | 21 15 | 0 28 | 18 13 | 5 16 | 22 17 | 22 19 | 19 37 | 6 32 | 6 18 |
| S 10 | 5 5 | 22 11 | 0 2 | 4 18 | 4 7 | 13 12 | 1 8 | 17 53 | 1 10 | 11 54 | 1 28 | 21 30 | 0 26 | 13 48 | 0 47 | 21 15 | 0 28 | 18 13 | 5 16 | 22 17 | 22 18 | 19 39 | 6 33 | 6 18 |
| S 11 | 4 42 | 24 19 | 1n 0 | 3 58 | 4 4 | 12 47 | 1 9 | 17 42 | 1 11 | 11 53 | 1 28 | 21 30 | 0 26 | 13 48 | 0 47 | 21 16 | 0 28 | 18 13 | 5 16 | 22 17 | 22 18 | 19 41 | 6 34 | 6 18 |
| M12 | 4 19 | 25 23 | 2 1 | 3 34 | 3 58 | 12 22 | 1 11 | 17 32 | 1 11 | 11 52 | 1 28 | 21 31 | 0 26 | 13 49 | 0 47 | 21 16 | 0 28 | 18 13 | 5 16 | 22 17 | 22 17 | 19 44 | 6 36 | 6 18 |
| T 13 | 3 56 | 25 14 | 2 57 | 3 6 | 3 51 | 11 57 | 1 12 | 17 21 | 1 11 | 11 50 | 1 28 | 21 31 | 0 26 | 13 50 | 0 47 | 21 16 | 0 28 | 18 13 | 5 16 | 22 16 | 22 17 | 19 46 | 6 37 | 6 18 |
| W14 | 3 33 | 23 49 | 3 46 | 2 35 | 3 42 | 11 32 | 1 14 | 17 10 | 1 12 | 11 49 | 1 28 | 21 31 | 0 26 | 13 50 | 0 47 | 21 16 | 0 28 | 18 13 | 5 16 | 22 16 | 22 17 | 19 48 | 6 38 | 6 17 |
| T 15 | 3 10 | 21 9 | 4 25 | 2 1 | 3 30 | 11 6 | 1 15 | 16 59 | 1 12 | 11 47 | 1 28 | 21 32 | 0 26 | 13 51 | 0 47 | 21 16 | 0 28 | 18 12 | 5 17 | 22 15 | 22 16 | 19 50 | 6 39 | 6 17 |
| F 16 | 2 46 | 17 18 | 4 51 | 1 23 | 3 17 | 10 40 | 1 16 | 16 48 | 1 13 | 11 46 | 1 29 | 21 32 | 0 26 | 13 52 | 0 47 | 21 16 | 0 28 | 18 12 | 5 17 | 22 13 | 22 16 | 19 52 | 6 40 | 6 17 |
| S 17 | 2 23 | 12 27 | 5 1 | 0 44 | 3 2 | 10 14 | 1 17 | 16 37 | 1 13 | 11 44 | 1 29 | 21 32 | 0 26 | 13 52 | 0 47 | 21 16 | 0 28 | 18 12 | 5 17 | 22 12 | 22 15 | 19 54 | 6 41 | 6 17 |
| S 18 | 2 0 | 6 51 | 4 54 | 0 3 | 2 46 | 9 47 | 1 19 | 16 26 | 1 13 | 11 43 | 1 29 | 21 32 | 0 26 | 13 53 | 0 47 | 21 16 | 0 28 | 18 12 | 5 17 | 22 10 | 22 15 | 19 57 | 6 42 | 6 17 |
| M19 | 1 36 | 0 47 | 4 28 | 0n38 | 2 28 | 9 20 | 1 20 | 16 14 | 1 14 | 11 41 | 1 29 | 21 33 | 0 26 | 13 54 | 0 47 | 21 16 | 0 28 | 18 12 | 5 17 | 22 9 | 22 14 | 19 59 | 6 43 | 6 16 |
| T 20 | 1 13 | 5s25 | 3 45 | 1 19 | 2 9 | 8 53 | 1 21 | 16 3 | 1 14 | 11 39 | 1 29 | 21 33 | 0 26 | 13 54 | 0 47 | 21 17 | 0 28 | 18 12 | 5 17 | 22 7 | 22 14 | 20 1 | 6 44 | 6 16 |
| W21 | 0 50 | 11 21 | 2 47 | 1 58 | 1 49 | 8 25 | 1 22 | 15 52 | 1 15 | 11 37 | 1 29 | 21 33 | 0 26 | 13 55 | 0 47 | 21 17 | 0 28 | 18 12 | 5 17 | 22 6 | 22 14 | 20 3 | 6 45 | 6 16 |
| T 22 | 0 26 | 16 40 | 1 39 | 2 35 | 1 29 | 7 57 | 1 23 | 15 40 | 1 15 | 11 35 | 1 30 | 21 33 | 0 26 | 13 56 | 0 47 | 21 17 | 0 28 | 18 12 | 5 17 | 22 6 | 22 13 | 20 5 | 6 46 | 6 15 |
| F 23 | 0 3 | 20 59 | 0 24 | 3 9 | 1 9 | 7 29 | 1 23 | 15 28 | 1 15 | 11 33 | 1 30 | 21 33 | 0 26 | 13 56 | 0 47 | 21 17 | 0 28 | 18 12 | 5 17 | 22 6 | 22 13 | 20 7 | 6 47 | 6 15 |
| S 24 | 0s21 | 23 59 | 0s51 | 3 39 | 0 49 | 7 1 | 1 24 | 15 17 | 1 16 | 11 31 | 1 30 | 21 34 | 0 27 | 13 57 | 0 47 | 21 17 | 0 28 | 18 12 | 5 17 | 22 6 | 22 12 | 20 9 | 6 48 | 6 15 |
| S 25 | 0 44 | 25 27 | 2 3 | 4 5 | 0 30 | 6 33 | 1 25 | 15 5 | 1 16 | 11 29 | 1 30 | 21 34 | 0 27 | 13 57 | 0 46 | 21 17 | 0 28 | 18 12 | 5 17 | 22 6 | 22 12 | 20 12 | 6 49 | 6 15 |
| M26 | 1 8 | 25 18 | 3 6 | 4 26 | 0 11 | 6 4 | 1 25 | 14 53 | 1 17 | 11 27 | 1 30 | 21 34 | 0 27 | 13 58 | 0 46 | 21 17 | 0 28 | 18 12 | 5 17 | 22 6 | 22 11 | 20 14 | 6 51 | 6 14 |
| T 27 | 1 31 | 23 37 | 3 57 | 4 42 | 0n 7 | 5 36 | 1 26 | 14 41 | 1 17 | 11 25 | 1 30 | 21 34 | 0 27 | 13 58 | 0 46 | 21 17 | 0 28 | 18 12 | 5 17 | 22 5 | 22 11 | 20 16 | 6 52 | 6 14 |
| W28 | 1 55 | 20 36 | 4 35 | 4 54 | 0 24 | 5 7 | 1 27 | 14 29 | 1 17 | 11 23 | 1 30 | 21 34 | 0 27 | 13 59 | 0 46 | 21 17 | 0 28 | 18 12 | 5 17 | 22 4 | 22 10 | 20 18 | 6 53 | 6 14 |
| T 29 | 2 18 | 16 34 | 4 57 | 5 0 | 0 39 | 4 37 | 1 27 | 14 17 | 1 18 | 11 21 | 1 30 | 21 34 | 0 27 | 13 59 | 0 46 | 21 17 | 0 28 | 18 11 | 5 17 | 22 3 | 22 10 | 20 20 | 6 54 | 6 13 |
| F 30 | 2s42 | 11s48 | 5s 3 | 5n 1 | 0n53 | 4n 8 | 1n27 | 14n 4 | 1n18 | 11n19 | 1s30 | 21s34 | 0s27 | 14s 0 | 0s46 | 21s17 | 0n28 | 18n11 | 5s18 | 22n 2 | 22n10 | 20n22 | 6s54 | 6n13 |

Julian Day Number = 2330162.5, Delta T = 31.25 sec
Ecliptic obliquity = 23°29'00, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'05, Lahiri = 19°13'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## OCTOBER 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 38 45 | 7♎45'39 | 24♓45 | 20♍ 4 | 24♍12 | 26♌42 | 3°R27 | 25♑13 | 24°R48 | 21°R38 | 29°R42 | 10°R 5 | 11♊ 8 | 4♊10 | 26°R18 | S 1 |
| S 2 | 0 42 42 | 8°44'50 | 7♈25 | 20°52 | 25°27 | 27°19 | 3♉21 | 25°13 | 24♒46 | 21♑38 | 29♊42 | 9♊54 | 11° 5 | 4°17 | 26♒16 | S 2 |
| M 3 | 0 46 38 | 9°44'02 | 19°52 | 21°48 | 26°42 | 27°55 | 3°14 | 25°14 | 24°45 | 21°38 | 29°42 | 9°44 | 11° 2 | 4°23 | 26°14 | M 3 |
| T 4 | 0 50 35 | 10°43'17 | 2♉ 7 | 22°52 | 27°56 | 28°32 | 3° 7 | 25°14 | 24°43 | 21°D38 | 29°42 | 9°35 | 10°59 | 4°30 | 26°12 | T 4 |
| W 5 | 0 54 32 | 11°42'34 | 14°10 | 24° 2 | 29°11 | 29° 9 | 3° 0 | 25°15 | 24°42 | 21°38 | 29°41 | 9°30 | 10°55 | 4°37 | 26°10 | W 5 |
| T 6 | 0 58 28 | 12°41'53 | 26° 4 | 25°17 | 0♎26 | 29°46 | 2°53 | 25°15 | 24°41 | 21°38 | 29°41 | 9°27 | 10°52 | 4°43 | 26° 8 | T 6 |
| F 7 | 1 2 25 | 13°41'14 | 7♊52 | 26°38 | 1°41 | 0♍23 | 2°45 | 25°16 | 24°39 | 21°38 | 29°41 | 9°D25 | 10°49 | 4°50 | 26° 7 | F 7 |
| S 8 | 1 6 21 | 14°40'38 | 19°39 | 28° 2 | 2°56 | 0°59 | 2°38 | 25°17 | 24°38 | 21°38 | 29°41 | 9°26 | 10°46 | 4°57 | 26° 5 | S 8 |
| S 9 | 1 10 18 | 15°40'04 | 1♋28 | 29°31 | 4°11 | 1°36 | 2°31 | 25°18 | 24°37 | 21°38 | 29°41 | 9°27 | 10°43 | 5° 3 | 26° 3 | S 9 |
| M10 | 1 14 14 | 16°39'32 | 13°26 | 1♌ 2 | 5°26 | 2°13 | 2°23 | 25°18 | 24°36 | 21°38 | 29°41 | 9°R28 | 10°39 | 5°10 | 26° 2 | M10 |
| T 11 | 1 18 11 | 17°39'03 | 25°38 | 2°36 | 6°41 | 2°49 | 2°16 | 25°20 | 24°34 | 21°38 | 29°40 | 9°27 | 10°36 | 5°16 | 26° 0 | T 11 |
| W12 | 1 22 7 | 18°38'35 | 8♌ 8 | 4°12 | 7°56 | 3°26 | 2° 8 | 25°21 | 24°33 | 21°39 | 29°40 | 9°25 | 10°33 | 5°23 | 25°59 | W12 |
| T 13 | 1 26 4 | 19°38'11 | 21° 1 | 5°50 | 9°11 | 4° 2 | 2° 0 | 25°22 | 24°32 | 21°39 | 29°40 | 9°21 | 10°30 | 5°30 | 25°57 | T 13 |
| F 14 | 1 30 1 | 20°37'48 | 4♍21 | 7°29 | 10°26 | 4°39 | 1°52 | 25°23 | 24°31 | 21°39 | 29°40 | 9°15 | 10°27 | 5°36 | 25°56 | F 14 |
| S 15 | 1 33 57 | 21°37'28 | 18° 7 | 9° 8 | 11°41 | 5°15 | 1°44 | 25°25 | 24°30 | 21°40 | 29°39 | 9° 8 | 10°24 | 5°43 | 25°55 | S 15 |
| S 16 | 1 37 54 | 22°37'09 | 2♎20 | 10°49 | 12°56 | 5°51 | 1°36 | 25°26 | 24°29 | 21°40 | 29°39 | 9° 0 | 10°20 | 5°50 | 25°53 | S 16 |
| M17 | 1 41 50 | 23°36'53 | 16°54 | 12°30 | 14°11 | 6°28 | 1°28 | 25°28 | 24°28 | 21°41 | 29°38 | 8°53 | 10°17 | 5°56 | 25°52 | M17 |
| T 18 | 1 45 47 | 24°36'39 | 1♏43 | 14°12 | 15°26 | 7° 4 | 1°20 | 25°30 | 24°28 | 21°41 | 29°38 | 8°47 | 10°14 | 6° 3 | 25°51 | T 18 |
| W19 | 1 49 43 | 25°36'27 | 16°38 | 15°53 | 16°41 | 7°40 | 1°12 | 25°32 | 24°27 | 21°42 | 29°38 | 8°43 | 10°11 | 6°10 | 25°50 | W19 |
| T 20 | 1 53 40 | 26°36'17 | 1♐32 | 17°35 | 17°57 | 8°16 | 1° 4 | 25°34 | 24°26 | 21°42 | 29°37 | 8°41 | 10° 8 | 6°16 | 25°49 | T 20 |
| F 21 | 1 57 36 | 27°36'09 | 16°16 | 19°16 | 19°12 | 8°52 | 0°56 | 25°36 | 24°25 | 21°43 | 29°37 | 8°D41 | 10° 5 | 6°23 | 25°48 | F 21 |
| S 22 | 2 1 33 | 28°36'02 | 0♑46 | 20°58 | 20°27 | 9°29 | 0°48 | 25°38 | 24°25 | 21°43 | 29°36 | 8°42 | 10° 1 | 6°30 | 25°47 | S 22 |
| S 23 | 2 5 30 | 29°35'57 | 14°58 | 22°39 | 21°42 | 10° 5 | 0°40 | 25°40 | 24°24 | 21°44 | 29°36 | 8°44 | 9°58 | 6°36 | 25°46 | S 23 |
| M24 | 2 9 26 | 0♏35'54 | 28°51 | 24°19 | 22°57 | 10°41 | 0°32 | 25°43 | 24°24 | 21°45 | 29°35 | 8°R44 | 9°55 | 6°43 | 25°45 | M24 |
| T 25 | 2 13 23 | 1°35'52 | 12♒26 | 26° 0 | 24°13 | 11°17 | 0°24 | 25°45 | 24°23 | 21°45 | 29°35 | 8°44 | 9°52 | 6°50 | 25°45 | T 25 |
| W26 | 2 17 19 | 2°35'52 | 25°43 | 27°40 | 25°28 | 11°52 | 0°15 | 25°48 | 24°23 | 21°46 | 29°34 | 8°42 | 9°49 | 6°56 | 25°44 | W26 |
| T 27 | 2 21 16 | 3°35'53 | 8♓44 | 29°20 | 26°43 | 12°28 | 0° 7 | 25°50 | 24°22 | 21°47 | 29°34 | 8°38 | 9°45 | 7° 3 | 25°43 | T 27 |
| F 28 | 2 25 12 | 4°35'57 | 21°31 | 0♏59 | 27°58 | 13° 4 | 29♈59 | 25°53 | 24°22 | 21°48 | 29°33 | 8°33 | 9°42 | 7° 9 | 25°43 | F 28 |
| S 29 | 2 29 9 | 5°36'01 | 4♈ 5 | 2°38 | 29°14 | 13°40 | 29°51 | 25°56 | 24°22 | 21°48 | 29°32 | 8°27 | 9°39 | 7°16 | 25°42 | S 29 |
| S 30 | 2 33 5 | 6°36'08 | 16°27 | 4°16 | 0♏29 | 14°16 | 29°43 | 25°59 | 24°21 | 21°49 | 29°32 | 8°21 | 9°36 | 7°23 | 25°42 | S 30 |
| M31 | 2 37 2 | 7♏36'16 | 28♈40 | 5♏54 | 1♏44 | 14♍51 | 29♈35 | 26♑ 2 | 24♒21 | 21♑50 | 29♊31 | 8♊16 | 9♊33 | 7♊29 | 25♒41 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s 5 | 6s35 | 4s54 | 4n57 | 1n 6 | 3n39 | 1n28 | 13n52 | 1n19 | 11n16 | 1s31 | 21s34 | 0s27 | 14s 0 | 0s46 | 21s17 | 0n28 | 18n11 | 5s18 | 22n 0 | 22n 9 | 20n24 | 6s55 | 6n13 |
| S 2 | 3 28 | 1 11 | 4 30 | 4 48 | 1 17 | 3 9 | 1 28 | 13 40 | 1 19 | 11 14 | 1 31 | 21 34 | 0 27 | 14 1 | 0 46 | 21 17 | 0 28 | 18 11 | 5 18 | 21 59 | 22 9 | 20 26 | 6 56 | 6 12 |
| M 3 | 3 52 | 4n11 | 3 53 | 4 35 | 1 27 | 2 40 | 1 28 | 13 27 | 1 19 | 11 12 | 1 31 | 21 34 | 0 27 | 14 1 | 0 46 | 21 17 | 0 28 | 18 11 | 5 18 | 21 57 | 22 8 | 20 28 | 6 57 | 6 12 |
| T 4 | 4 15 | 9 19 | 3 6 | 4 17 | 1 35 | 2 10 | 1 28 | 13 15 | 1 20 | 11 9 | 1 31 | 21 34 | 0 27 | 14 2 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 56 | 22 8 | 20 30 | 6 58 | 6 12 |
| W 5 | 4 38 | 14 2 | 2 11 | 3 56 | 1 42 | 1 40 | 1 28 | 13 2 | 1 20 | 11 7 | 1 31 | 21 34 | 0 27 | 14 2 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 55 | 22 7 | 20 33 | 6 59 | 6 11 |
| T 6 | 5 2 | 18 9 | 1 11 | 3 31 | 1 48 | 1 10 | 1 28 | 12 50 | 1 20 | 11 4 | 1 31 | 21 34 | 0 27 | 14 3 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 54 | 22 7 | 20 35 | 7 0 | 6 11 |
| F 7 | 5 25 | 21 31 | 0 8 | 3 4 | 1 52 | 0 40 | 1 28 | 12 37 | 1 21 | 11 2 | 1 31 | 21 34 | 0 27 | 14 3 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 54 | 22 6 | 20 37 | 7 1 | 6 11 |
| S 8 | 5 48 | 23 59 | 0n55 | 2 33 | 1 56 | 0 10 | 1 28 | 12 24 | 1 21 | 10 59 | 1 31 | 21 34 | 0 27 | 14 4 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 54 | 22 6 | 20 39 | 7 2 | 6 10 |
| S 9 | 6 11 | 25 24 | 1 56 | 2 0 | 1 58 | 0s20 | 1 27 | 12 12 | 1 22 | 10 57 | 1 31 | 21 34 | 0 27 | 14 4 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 55 | 22 6 | 20 41 | 7 3 | 6 10 |
| M10 | 6 34 | 25 40 | 2 53 | 1 25 | 1 59 | 0 50 | 1 27 | 11 59 | 1 22 | 10 54 | 1 31 | 21 34 | 0 27 | 14 4 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 55 | 22 5 | 20 43 | 7 4 | 6 10 |
| T 11 | 6 56 | 24 42 | 3 43 | 0 48 | 2 0 | 1 20 | 1 27 | 11 46 | 1 22 | 10 51 | 1 31 | 21 33 | 0 27 | 14 5 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 55 | 22 5 | 20 45 | 7 5 | 6 9 |
| W12 | 7 19 | 22 31 | 4 24 | 0 9 | 1 59 | 1 50 | 1 26 | 11 33 | 1 23 | 10 49 | 1 31 | 21 33 | 0 27 | 14 5 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 54 | 22 4 | 20 47 | 7 5 | 6 9 |
| T 13 | 7 42 | 19 8 | 4 53 | 0s31 | 1 58 | 2 20 | 1 26 | 11 20 | 1 23 | 10 46 | 1 31 | 21 33 | 0 27 | 14 5 | 0 46 | 21 17 | 0 27 | 18 11 | 5 18 | 21 54 | 22 4 | 20 49 | 7 6 | 6 9 |
| F 14 | 8 4 | 14 42 | 5 7 | 1 11 | 1 56 | 2 50 | 1 25 | 11 7 | 1 23 | 10 43 | 1 31 | 21 33 | 0 27 | 14 6 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 53 | 22 3 | 20 51 | 7 7 | 6 8 |
| S 15 | 8 27 | 9 22 | 5 4 | 1 53 | 1 54 | 3 20 | 1 25 | 10 54 | 1 24 | 10 41 | 1 31 | 21 33 | 0 27 | 14 6 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 52 | 22 3 | 20 53 | 7 8 | 6 8 |
| S 16 | 8 49 | 3 24 | 4 43 | 2 35 | 1 51 | 3 50 | 1 24 | 10 41 | 1 24 | 10 38 | 1 31 | 21 32 | 0 27 | 14 6 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 50 | 22 2 | 20 55 | 7 9 | 6 8 |
| M17 | 9 11 | 2s54 | 4 3 | 3 18 | 1 47 | 4 20 | 1 23 | 10 28 | 1 24 | 10 35 | 1 31 | 21 32 | 0 27 | 14 7 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 49 | 22 2 | 20 57 | 7 9 | 6 7 |
| T 18 | 9 33 | 9 10 | 3 7 | 4 1 | 1 43 | 4 49 | 1 22 | 10 15 | 1 25 | 10 32 | 1 31 | 21 32 | 0 27 | 14 7 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 48 | 22 1 | 20 59 | 7 10 | 6 7 |
| W19 | 9 55 | 14 58 | 1 57 | 4 44 | 1 39 | 5 19 | 1 21 | 10 2 | 1 25 | 10 30 | 1 31 | 21 31 | 0 27 | 14 7 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 48 | 22 1 | 21 1 | 7 11 | 6 6 |
| T 20 | 10 17 | 19 52 | 0 39 | 5 28 | 1 34 | 5 49 | 1 20 | 9 48 | 1 26 | 10 27 | 1 31 | 21 31 | 0 27 | 14 7 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 47 | 22 1 | 21 3 | 7 11 | 6 6 |
| F 21 | 10 38 | 23 27 | 0s41 | 6 11 | 1 29 | 6 18 | 1 19 | 9 35 | 1 26 | 10 24 | 1 31 | 21 31 | 0 27 | 14 7 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 47 | 22 0 | 21 5 | 7 12 | 6 6 |
| S 22 | 11 0 | 25 26 | 1 57 | 6 54 | 1 24 | 6 48 | 1 18 | 9 22 | 1 26 | 10 21 | 1 31 | 21 30 | 0 27 | 14 8 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 48 | 22 0 | 21 7 | 7 13 | 6 5 |
| S 23 | 11 21 | 25 42 | 3 5 | 7 37 | 1 18 | 7 17 | 1 17 | 9 8 | 1 27 | 10 18 | 1 31 | 21 30 | 0 28 | 14 8 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 48 | 21 59 | 21 9 | 7 13 | 6 5 |
| M24 | 11 42 | 24 20 | 3 59 | 8 20 | 1 12 | 7 46 | 1 16 | 8 55 | 1 27 | 10 16 | 1 31 | 21 30 | 0 28 | 14 8 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 48 | 21 59 | 21 11 | 7 14 | 6 4 |
| T 25 | 12 3 | 21 34 | 4 40 | 9 2 | 1 6 | 8 15 | 1 15 | 8 42 | 1 27 | 10 13 | 1 31 | 21 29 | 0 28 | 14 8 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 48 | 21 58 | 21 13 | 7 15 | 6 4 |
| W26 | 12 24 | 17 44 | 5 4 | 9 44 | 1 0 | 8 43 | 1 13 | 8 28 | 1 28 | 10 10 | 1 31 | 21 29 | 0 28 | 14 8 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 48 | 21 58 | 21 15 | 7 15 | 6 4 |
| T 27 | 12 44 | 13 7 | 5 12 | 10 25 | 0 54 | 9 12 | 1 12 | 8 15 | 1 28 | 10 7 | 1 31 | 21 28 | 0 28 | 14 8 | 0 46 | 21 17 | 0 27 | 18 10 | 5 19 | 21 47 | 21 57 | 21 17 | 7 16 | 6 3 |
| F 28 | 13 5 | 8 1 | 5 4 | 11 6 | 0 47 | 9 40 | 1 11 | 8 2 | 1 28 | 10 5 | 1 30 | 21 28 | 0 28 | 14 8 | 0 45 | 21 16 | 0 27 | 18 10 | 5 19 | 21 46 | 21 57 | 21 19 | 7 16 | 6 3 |
| S 29 | 13 25 | 2 41 | 4 41 | 11 46 | 0 41 | 10 8 | 1 9 | 7 48 | 1 29 | 10 2 | 1 30 | 21 27 | 0 28 | 14 8 | 0 45 | 21 16 | 0 27 | 18 10 | 5 19 | 21 45 | 21 56 | 21 21 | 7 17 | 6 2 |
| S 30 | 13 45 | 2n42 | 4 6 | 12 26 | 0 34 | 10 36 | 1 8 | 7 35 | 1 29 | 9 59 | 1 30 | 21 27 | 0 28 | 14 8 | 0 45 | 21 16 | 0 27 | 18 10 | 5 19 | 21 44 | 21 56 | 21 23 | 7 18 | 6 2 |
| M31 | 14s 4 | 7n54 | 3s20 | 13s 5 | 0n28 | 11s 4 | 1n 6 | 7n21 | 1n30 | 9n56 | 1s30 | 21s26 | 0s28 | 14s 9 | 0s45 | 21s16 | 0n27 | 18n 9 | 5s19 | 21n43 | 21n55 | 21n25 | 7s18 | 6n 2 |

Julian Day Number = 2330192.5, Delta T = 31.20 sec
Ecliptic obliquity = 23°29'01, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'09, Lahiri = 19°13'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## NOVEMBER 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 40 58 | 8♏36'26 | 10♉43 | 7♏32 | 3♏ 0 | 15♍27 | 29°R27 | 26♑ 5 | 24°R21 | 21♑51 | 29°R30 | 8°R12 | 9♊30 | 7♊36 | 25°R41 | T 1 |
| W 2 | 2 44 55 | 9°36'38 | 22°38 | 9° 9 | 4°15 | 16° 2 | 29♈19 | 26° 8 | 24♒21 | 21°52 | 29♊30 | 8♊ 9 | 9°26 | 7°43 | 25♒41 | W 2 |
| T 3 | 2 48 52 | 10°36'51 | 4♊28 | 10°46 | 5°30 | 16°38 | 29°11 | 26°11 | 24°D21 | 21°53 | 29°29 | 8°D 8 | 9°23 | 7°49 | 25°41 | T 3 |
| F 4 | 2 52 48 | 11°37'07 | 16°15 | 12°22 | 6°46 | 17°13 | 29° 4 | 26°15 | 24°21 | 21°54 | 29°28 | 8° 8 | 9°20 | 7°56 | 25°41 | F 4 |
| S 5 | 2 56 45 | 12°37'25 | 28° 2 | 13°58 | 8° 1 | 17°49 | 28°56 | 26°18 | 24°21 | 21°55 | 29°27 | 8° 9 | 9°17 | 8° 3 | 25°D40 | S 5 |
| S 6 | 3 0 41 | 13°37'44 | 9♋52 | 15°34 | 9°16 | 18°24 | 28°48 | 26°22 | 24°21 | 21°56 | 29°27 | 8°11 | 9°14 | 8° 9 | 25°40 | S 6 |
| M 7 | 3 4 38 | 14°38'05 | 21°50 | 17°10 | 10°32 | 18°59 | 28°41 | 26°25 | 24°21 | 21°57 | 29°26 | 8°13 | 9°11 | 8°16 | 25°41 | M 7 |
| T 8 | 3 8 34 | 15°38'29 | 4♌ 0 | 18°45 | 11°47 | 19°35 | 28°33 | 26°29 | 24°21 | 21°58 | 29°25 | 8°14 | 9° 7 | 8°23 | 25°41 | T 8 |
| W 9 | 3 12 31 | 16°38'54 | 16°27 | 20°19 | 13° 2 | 20°10 | 28°26 | 26°33 | 24°22 | 22° 0 | 29°24 | 8°R15 | 9° 4 | 8°29 | 25°41 | W 9 |
| T 10 | 3 16 28 | 17°39'21 | 29°15 | 21°54 | 14°18 | 20°45 | 28°19 | 26°37 | 24°22 | 22° 1 | 29°23 | 8°14 | 9° 1 | 8°36 | 25°41 | T 10 |
| F 11 | 3 20 24 | 18°39'50 | 12♍28 | 23°28 | 15°33 | 21°20 | 28°11 | 26°41 | 24°22 | 22° 2 | 29°22 | 8°13 | 8°58 | 8°42 | 25°41 | F 11 |
| S 12 | 3 24 21 | 19°40'21 | 26° 9 | 25° 2 | 16°49 | 21°55 | 28° 4 | 26°45 | 24°23 | 22° 3 | 29°22 | 8°11 | 8°55 | 8°49 | 25°42 | S 12 |
| S 13 | 3 28 17 | 20°40'53 | 10♎17 | 26°36 | 18° 4 | 22°30 | 27°57 | 26°49 | 24°23 | 22° 5 | 29°21 | 8° 8 | 8°51 | 8°56 | 25°42 | S 13 |
| M14 | 3 32 14 | 21°41'28 | 24°52 | 28° 9 | 19°20 | 23° 5 | 27°51 | 26°53 | 24°24 | 22° 6 | 29°20 | 8° 6 | 8°48 | 9° 2 | 25°43 | M14 |
| T 15 | 3 36 10 | 22°42'04 | 9♏46 | 29°43 | 20°35 | 23°40 | 27°44 | 26°57 | 24°24 | 22° 7 | 29°19 | 8° 4 | 8°45 | 9° 9 | 25°43 | T 15 |
| W16 | 3 40 7 | 23°42'41 | 24°54 | 1♐16 | 21°50 | 24°15 | 27°37 | 27° 1 | 24°25 | 22° 9 | 29°18 | 8° 3 | 8°42 | 9°16 | 25°44 | W16 |
| T 17 | 3 44 3 | 24°43'21 | 10♐ 6 | 2°49 | 23° 6 | 24°49 | 27°31 | 27° 6 | 24°25 | 22°10 | 29°17 | 8°D 3 | 8°39 | 9°22 | 25°45 | T 17 |
| F 18 | 3 48 0 | 25°44'01 | 25°11 | 4°21 | 24°21 | 25°24 | 27°25 | 27°10 | 24°26 | 22°11 | 29°16 | 8° 3 | 8°36 | 9°29 | 25°45 | F 18 |
| S 19 | 3 51 57 | 26°44'43 | 10♑ 2 | 5°54 | 25°37 | 25°59 | 27°18 | 27°15 | 24°27 | 22°13 | 29°15 | 8° 4 | 8°32 | 9°36 | 25°46 | S 19 |
| S 20 | 3 55 53 | 27°45'26 | 24°32 | 7°26 | 26°52 | 26°33 | 27°12 | 27°20 | 24°28 | 22°14 | 29°14 | 8° 5 | 8°29 | 9°42 | 25°47 | S 20 |
| M21 | 3 59 50 | 28°46'10 | 8♒38 | 8°59 | 28° 8 | 27° 8 | 27° 7 | 27°24 | 24°29 | 22°16 | 29°13 | 8° 6 | 8°26 | 9°49 | 25°48 | M21 |
| T 22 | 4 3 46 | 29°46'55 | 22°19 | 10°31 | 29°23 | 27°42 | 27° 1 | 27°29 | 24°30 | 22°17 | 29°12 | 8° 6 | 8°23 | 9°56 | 25°49 | T 22 |
| W23 | 4 7 43 | 0♐47'41 | 5♓36 | 12° 2 | 0♐39 | 28°16 | 26°55 | 27°34 | 24°31 | 22°19 | 29°11 | 8°R 6 | 8°20 | 10° 2 | 25°50 | W23 |
| T 24 | 4 11 39 | 1°48'28 | 18°32 | 13°34 | 1°54 | 28°50 | 26°50 | 27°39 | 24°32 | 22°21 | 29°10 | 8° 6 | 8°17 | 10° 9 | 25°51 | T 24 |
| F 25 | 4 15 36 | 2°49'16 | 1♈ 8 | 15° 6 | 3°10 | 29°25 | 26°45 | 27°44 | 24°33 | 22°22 | 29° 9 | 8° 5 | 8°13 | 10°16 | 25°52 | F 25 |
| S 26 | 4 19 32 | 3°50'05 | 13°29 | 16°37 | 4°25 | 29°59 | 26°40 | 27°49 | 24°34 | 22°24 | 29° 8 | 8° 5 | 8°10 | 10°22 | 25°53 | S 26 |
| S 27 | 4 23 29 | 4°50'55 | 25°39 | 18° 8 | 5°41 | 0♎33 | 26°35 | 27°54 | 24°35 | 22°25 | 29° 7 | 8° 4 | 8° 7 | 10°29 | 25°55 | S 27 |
| M28 | 4 27 26 | 5°51'46 | 7♉39 | 19°39 | 6°56 | 1° 7 | 26°30 | 27°59 | 24°36 | 22°27 | 29° 6 | 8° 4 | 8° 4 | 10°35 | 25°56 | M28 |
| T 29 | 4 31 22 | 6°52'38 | 19°32 | 21° 9 | 8°12 | 1°41 | 26°26 | 28° 5 | 24°37 | 22°29 | 29° 5 | 8° 4 | 8° 1 | 10°42 | 25°58 | T 29 |
| W30 | 4 35 19 | 7♐53'31 | 1♊22 | 22♐40 | 9♐27 | 2♎14 | 26♈22 | 28♑10 | 24♒39 | 22♑31 | 29♊ 3 | 8°D 4 | 7♊57 | 10♊49 | 25♒59 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s24 | 12n46 | 2s25 | 13s43 | 0n21 | 11s31 | 1n 5 | 7n 8 | 1n30 | 9n54 | 1s30 | 21s26 | 0s28 | 14s 9 | 0s45 | 21s16 | 0n27 | 18n 9 | 5s20 | 21n43 | 21n55 | 21n27 | 7s19 | 6n 1 |
| W 2 | 14 43 | 17 6 | 1 24 | 14 21 | 0 14 | 11 58 | 1 3 | 6 54 | 1 30 | 9 51 | 1 30 | 21 25 | 0 28 | 14 9 | 0 45 | 21 16 | 0 27 | 18 9 | 5 20 | 21 42 | 21 54 | 21 29 | 7 19 | 6 1 |
| T 3 | 15 2 | 20 45 | 0 20 | 14 58 | 0 8 | 12 25 | 1 1 | 6 41 | 1 31 | 9 48 | 1 30 | 21 24 | 0 28 | 14 9 | 0 45 | 21 16 | 0 27 | 18 9 | 5 20 | 21 42 | 21 54 | 21 31 | 7 19 | 6 0 |
| F 4 | 15 21 | 23 31 | 0n45 | 15 34 | 0 1 | 12 52 | 1 0 | 6 27 | 1 31 | 9 46 | 1 30 | 21 24 | 0 28 | 14 8 | 0 45 | 21 16 | 0 27 | 18 9 | 5 20 | 21 42 | 21 53 | 21 33 | 7 20 | 6 0 |
| S 5 | 15 39 | 25 16 | 1 48 | 16 9 | 0s 6 | 13 18 | 0 58 | 6 14 | 1 31 | 9 43 | 1 29 | 21 23 | 0 28 | 14 8 | 0 45 | 21 15 | 0 27 | 18 9 | 5 20 | 21 42 | 21 53 | 21 35 | 7 20 | 6 0 |
| S 6 | 15 58 | 25 53 | 2 46 | 16 44 | 0 13 | 13 44 | 0 56 | 6 0 | 1 32 | 9 41 | 1 29 | 21 23 | 0 28 | 14 8 | 0 45 | 21 15 | 0 27 | 18 9 | 5 20 | 21 43 | 21 52 | 21 37 | 7 21 | 5 59 |
| M 7 | 16 15 | 25 18 | 3 38 | 17 18 | 0 19 | 14 9 | 0 54 | 5 46 | 1 32 | 9 38 | 1 29 | 21 22 | 0 28 | 14 8 | 0 45 | 21 15 | 0 27 | 18 9 | 5 20 | 21 43 | 21 52 | 21 39 | 7 21 | 5 59 |
| T 8 | 16 33 | 23 31 | 4 22 | 17 51 | 0 26 | 14 34 | 0 52 | 5 33 | 1 32 | 9 36 | 1 29 | 21 21 | 0 28 | 14 8 | 0 45 | 21 15 | 0 27 | 18 9 | 5 20 | 21 43 | 21 52 | 21 41 | 7 21 | 5 58 |
| W 9 | 16 51 | 20 36 | 4 54 | 18 23 | 0 32 | 14 59 | 0 50 | 5 19 | 1 33 | 9 33 | 1 29 | 21 21 | 0 28 | 14 8 | 0 45 | 21 15 | 0 27 | 18 9 | 5 20 | 21 43 | 21 51 | 21 42 | 7 22 | 5 58 |
| T 10 | 17 8 | 16 38 | 5 12 | 18 54 | 0 39 | 15 23 | 0 48 | 5 6 | 1 33 | 9 31 | 1 29 | 21 20 | 0 28 | 14 8 | 0 45 | 21 15 | 0 27 | 18 9 | 5 20 | 21 43 | 21 51 | 21 44 | 7 22 | 5 57 |
| F 11 | 17 25 | 11 45 | 5 15 | 19 24 | 0 45 | 15 47 | 0 46 | 4 52 | 1 33 | 9 28 | 1 28 | 21 19 | 0 28 | 14 8 | 0 45 | 21 14 | 0 27 | 18 9 | 5 20 | 21 43 | 21 50 | 21 46 | 7 22 | 5 57 |
| S 12 | 17 41 | 6 8 | 5 1 | 19 53 | 0 51 | 16 11 | 0 44 | 4 39 | 1 34 | 9 26 | 1 28 | 21 18 | 0 28 | 14 8 | 0 45 | 21 14 | 0 26 | 18 9 | 5 20 | 21 43 | 21 50 | 21 48 | 7 23 | 5 57 |
| S 13 | 17 57 | 0 2 | 4 28 | 20 22 | 0 57 | 16 34 | 0 42 | 4 25 | 1 34 | 9 24 | 1 28 | 21 18 | 0 28 | 14 7 | 0 45 | 21 14 | 0 26 | 18 9 | 5 20 | 21 42 | 21 49 | 21 50 | 7 23 | 5 56 |
| M14 | 18 13 | 6s17 | 3 37 | 20 49 | 1 3 | 16 57 | 0 40 | 4 12 | 1 34 | 9 22 | 1 28 | 21 17 | 0 28 | 14 7 | 0 45 | 21 14 | 0 26 | 18 9 | 5 20 | 21 42 | 21 49 | 21 52 | 7 23 | 5 56 |
| T 15 | 18 29 | 12 23 | 2 30 | 21 15 | 1 9 | 17 19 | 0 38 | 3 58 | 1 35 | 9 19 | 1 28 | 21 16 | 0 28 | 14 7 | 0 45 | 21 14 | 0 26 | 18 9 | 5 20 | 21 42 | 21 48 | 21 54 | 7 23 | 5 55 |
| W16 | 18 44 | 17 52 | 1 12 | 21 41 | 1 15 | 17 41 | 0 36 | 3 45 | 1 35 | 9 17 | 1 27 | 21 15 | 0 28 | 14 7 | 0 45 | 21 14 | 0 26 | 18 9 | 5 20 | 21 41 | 21 48 | 21 56 | 7 24 | 5 55 |
| T 17 | 18 59 | 22 11 | 0s11 | 22 5 | 1 21 | 18 3 | 0 33 | 3 31 | 1 35 | 9 15 | 1 27 | 21 14 | 0 28 | 14 6 | 0 45 | 21 13 | 0 26 | 18 9 | 5 20 | 21 41 | 21 47 | 21 58 | 7 24 | 5 55 |
| F 18 | 19 14 | 24 57 | 1 34 | 22 28 | 1 26 | 18 23 | 0 31 | 3 18 | 1 36 | 9 13 | 1 27 | 21 14 | 0 28 | 14 6 | 0 45 | 21 13 | 0 26 | 18 9 | 5 20 | 21 41 | 21 47 | 22 0 | 7 24 | 5 54 |
| S 19 | 19 28 | 25 54 | 2 48 | 22 50 | 1 31 | 18 44 | 0 29 | 3 4 | 1 36 | 9 11 | 1 27 | 21 13 | 0 28 | 14 6 | 0 45 | 21 13 | 0 26 | 18 9 | 5 20 | 21 42 | 21 46 | 22 1 | 7 24 | 5 54 |
| S 20 | 19 42 | 25 2 | 3 51 | 23 11 | 1 37 | 19 4 | 0 27 | 2 51 | 1 36 | 9 9 | 1 26 | 21 12 | 0 28 | 14 6 | 0 45 | 21 13 | 0 26 | 18 9 | 5 20 | 21 42 | 21 46 | 22 3 | 7 24 | 5 53 |
| M21 | 19 55 | 22 35 | 4 37 | 23 30 | 1 41 | 19 23 | 0 24 | 2 37 | 1 37 | 9 7 | 1 26 | 21 11 | 0 28 | 14 5 | 0 45 | 21 12 | 0 26 | 18 9 | 5 20 | 21 42 | 21 45 | 22 5 | 7 24 | 5 53 |
| T 22 | 20 8 | 18 55 | 5 6 | 23 49 | 1 46 | 19 42 | 0 22 | 2 24 | 1 37 | 9 5 | 1 26 | 21 10 | 0 29 | 14 5 | 0 45 | 21 12 | 0 26 | 18 9 | 5 20 | 21 42 | 21 45 | 22 7 | 7 24 | 5 52 |
| W23 | 20 21 | 14 23 | 5 17 | 24 6 | 1 51 | 20 0 | 0 20 | 2 11 | 1 37 | 9 4 | 1 26 | 21 9 | 0 29 | 14 5 | 0 45 | 21 12 | 0 26 | 18 9 | 5 20 | 21 42 | 21 44 | 22 9 | 7 24 | 5 52 |
| T 24 | 20 34 | 9 20 | 5 13 | 24 22 | 1 55 | 20 18 | 0 17 | 1 57 | 1 38 | 9 2 | 1 25 | 21 8 | 0 29 | 14 4 | 0 45 | 21 12 | 0 26 | 18 9 | 5 20 | 21 42 | 21 44 | 22 11 | 7 24 | 5 52 |
| F 25 | 20 46 | 4 1 | 4 53 | 24 37 | 1 59 | 20 35 | 0 15 | 1 44 | 1 38 | 9 0 | 1 25 | 21 7 | 0 29 | 14 4 | 0 44 | 21 12 | 0 26 | 18 9 | 5 20 | 21 42 | 21 43 | 22 13 | 7 24 | 5 51 |
| S 26 | 20 57 | 1n21 | 4 19 | 24 50 | 2 2 | 20 51 | 0 13 | 1 31 | 1 38 | 8 59 | 1 25 | 21 6 | 0 29 | 14 3 | 0 44 | 21 11 | 0 26 | 18 9 | 5 20 | 21 42 | 21 43 | 22 14 | 7 24 | 5 51 |
| S 27 | 21 9 | 6 36 | 3 35 | 25 2 | 2 6 | 21 7 | 0 10 | 1 18 | 1 39 | 8 57 | 1 25 | 21 5 | 0 29 | 14 3 | 0 44 | 21 11 | 0 26 | 18 9 | 5 20 | 21 42 | 21 42 | 22 16 | 7 24 | 5 50 |
| M28 | 21 19 | 11 33 | 2 41 | 25 13 | 2 9 | 21 23 | 0 8 | 1 4 | 1 39 | 8 56 | 1 24 | 21 4 | 0 29 | 14 3 | 0 44 | 21 11 | 0 26 | 18 9 | 5 20 | 21 42 | 21 42 | 22 18 | 7 24 | 5 50 |
| T 29 | 21 30 | 16 1 | 1 41 | 25 22 | 2 11 | 21 37 | 0 6 | 0 51 | 1 40 | 8 55 | 1 24 | 21 3 | 0 29 | 14 2 | 0 44 | 21 11 | 0 26 | 18 9 | 5 20 | 21 42 | 21 41 | 22 20 | 7 24 | 5 50 |
| W30 | 21s40 | 19n52 | 0s37 | 25s30 | 2s14 | 21s51 | 0n 3 | 0n38 | 1n40 | 8n53 | 1s24 | 21s 2 | 0s29 | 14s 2 | 0s44 | 21s10 | 0n26 | 18n 9 | 5s20 | 21n42 | 21n41 | 22n22 | 7s24 | 5n49 |

Julian Day Number = 2330223.5, Delta T = 31.14 sec
Ecliptic obliquity = 23°29'00, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'14, Lahiri = 19°13'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1667
# geocentric

## DECEMBER 1667 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 39 15 | 8♐54'24 | 13♊10 | 24♐ 9 | 10♐42 | 2♎48 | 26°R17 | 28♑16 | 24♒40 | 22♑32 | 29°R 2 | 8°R 4 | 7♊54 | 10♊55 | 26♒ 1 | T 1 |
| F 2 | 4 43 12 | 9°55'19 | 24°58 | 25°39 | 11°58 | 3°22 | 26♈14 | 28°21 | 24°42 | 22°34 | 29♊ 1 | 8♊ 4 | 7°51 | 11° 2 | 26° 2 | F 2 |
| S 3 | 4 47 8 | 10°56'16 | 6♋48 | 27° 8 | 13°13 | 3°55 | 26°10 | 28°27 | 24°43 | 22°36 | 29° 0 | 8° 3 | 7°48 | 11° 9 | 26° 4 | S 3 |
| S 4 | 4 51 5 | 11°57'13 | 18°44 | 28°36 | 14°29 | 4°29 | 26° 6 | 28°32 | 24°44 | 22°38 | 28°59 | 8° 3 | 7°45 | 11°15 | 26° 5 | S 4 |
| M 5 | 4 55 1 | 12°58'11 | 0♌47 | 0♑ 3 | 15°44 | 5° 2 | 26° 3 | 28°38 | 24°46 | 22°40 | 28°58 | 8° 2 | 7°42 | 11°22 | 26° 7 | M 5 |
| T 6 | 4 58 58 | 13°59'10 | 13° 1 | 1°30 | 17° 0 | 5°35 | 26° 0 | 28°43 | 24°48 | 22°41 | 28°57 | 8° 2 | 7°38 | 11°29 | 26° 9 | T 6 |
| W 7 | 5 2 55 | 15° 0'11 | 25°28 | 2°56 | 18°15 | 6° 9 | 25°57 | 28°49 | 24°49 | 22°43 | 28°55 | 8° 1 | 7°35 | 11°35 | 26°11 | W 7 |
| T 8 | 5 6 51 | 16° 1'12 | 8♍13 | 4°20 | 19°31 | 6°42 | 25°54 | 28°55 | 24°51 | 22°45 | 28°54 | 8° 1 | 7°32 | 11°42 | 26°13 | T 8 |
| F 9 | 5 10 48 | 17° 2'14 | 21°19 | 5°43 | 20°46 | 7°15 | 25°51 | 29° 1 | 24°53 | 22°47 | 28°53 | 8°D 0 | 7°29 | 11°49 | 26°15 | F 9 |
| S 10 | 5 14 44 | 18° 3'18 | 4♎48 | 7° 4 | 22° 2 | 7°48 | 25°49 | 29° 7 | 24°54 | 22°49 | 28°52 | 8° 1 | 7°26 | 11°55 | 26°17 | S 10 |
| S 11 | 5 18 41 | 19° 4'22 | 18°43 | 8°23 | 23°17 | 8°21 | 25°47 | 29°13 | 24°56 | 22°51 | 28°51 | 8° 2 | 7°22 | 12° 2 | 26°19 | S 11 |
| M12 | 5 22 37 | 20° 5'27 | 3♏ 3 | 9°40 | 24°33 | 8°53 | 25°45 | 29°19 | 24°58 | 22°53 | 28°50 | 8° 3 | 7°19 | 12° 8 | 26°21 | M12 |
| T 13 | 5 26 34 | 21° 6'34 | 17°46 | 10°54 | 25°48 | 9°26 | 25°43 | 29°25 | 25° 0 | 22°55 | 28°48 | 8° 4 | 7°16 | 12°15 | 26°23 | T 13 |
| W14 | 5 30 30 | 22° 7'41 | 2♐48 | 12° 5 | 27° 4 | 9°59 | 25°42 | 29°31 | 25° 2 | 22°57 | 28°47 | 8°R 4 | 7°13 | 12°22 | 26°25 | W14 |
| T 15 | 5 34 27 | 23° 8'49 | 17°59 | 13°13 | 28°19 | 10°31 | 25°40 | 29°37 | 25° 4 | 22°59 | 28°46 | 8° 4 | 7°10 | 12°28 | 26°28 | T 15 |
| F 16 | 5 38 24 | 24° 9'57 | 3♑12 | 14°16 | 29°35 | 11° 4 | 25°39 | 29°43 | 25° 6 | 23° 1 | 28°45 | 8° 3 | 7° 7 | 12°35 | 26°30 | F 16 |
| S 17 | 5 42 20 | 25°11'06 | 18°15 | 15°14 | 0♑50 | 11°36 | 25°38 | 29°50 | 25° 8 | 23° 3 | 28°44 | 8° 1 | 7° 3 | 12°42 | 26°32 | S 17 |
| S 18 | 5 46 17 | 26°12'16 | 3♒ 0 | 16° 6 | 2° 6 | 12° 8 | 25°38 | 29°56 | 25°10 | 23° 5 | 28°42 | 7°59 | 7° 0 | 12°48 | 26°35 | S 18 |
| M19 | 5 50 13 | 27°13'25 | 17°22 | 16°52 | 3°21 | 12°40 | 25°37 | 0♒ 2 | 25°12 | 23° 7 | 28°41 | 7°56 | 6°57 | 12°55 | 26°37 | M19 |
| T 20 | 5 54 10 | 28°14'34 | 1♓15 | 17°31 | 4°36 | 13°12 | 25°37 | 0° 9 | 25°15 | 23° 9 | 28°40 | 7°54 | 6°54 | 13° 2 | 26°40 | T 20 |
| W21 | 5 58 6 | 29°15'44 | 14°41 | 18° 1 | 5°52 | 13°44 | 25°D37 | 0°15 | 25°17 | 23°12 | 28°39 | 7°52 | 6°51 | 13° 8 | 26°43 | W21 |
| T 22 | 6 2 3 | 0♑16'53 | 27°40 | 18°22 | 7° 7 | 14°15 | 25°37 | 0°22 | 25°19 | 23°14 | 28°38 | 7°D51 | 6°48 | 13°15 | 26°45 | T 22 |
| F 23 | 6 5 59 | 1°18'03 | 10♈16 | 18°33 | 8°23 | 14°47 | 25°37 | 0°28 | 25°22 | 23°16 | 28°36 | 7°52 | 6°44 | 13°22 | 26°48 | F 23 |
| S 24 | 6 9 56 | 2°19'12 | 22°33 | 18°R33 | 9°38 | 15°18 | 25°38 | 0°35 | 25°24 | 23°18 | 28°35 | 7°53 | 6°41 | 13°28 | 26°51 | S 24 |
| S 25 | 6 13 53 | 3°20'21 | 4♉36 | 18°22 | 10°54 | 15°50 | 25°39 | 0°41 | 25°26 | 23°20 | 28°34 | 7°55 | 6°38 | 13°35 | 26°53 | S 25 |
| M26 | 6 17 49 | 4°21'31 | 16°30 | 17°59 | 12° 9 | 16°21 | 25°40 | 0°48 | 25°29 | 23°22 | 28°33 | 7°56 | 6°35 | 13°42 | 26°56 | M26 |
| T 27 | 6 21 46 | 5°22'40 | 28°18 | 17°25 | 13°24 | 16°52 | 25°41 | 0°55 | 25°31 | 23°24 | 28°31 | 7°58 | 6°32 | 13°48 | 26°59 | T 27 |
| W28 | 6 25 42 | 6°23'49 | 10♊ 5 | 16°38 | 14°40 | 17°23 | 25°42 | 1° 1 | 25°34 | 23°27 | 28°30 | 7°R58 | 6°29 | 13°55 | 27° 2 | W28 |
| T 29 | 6 29 39 | 7°24'58 | 21°53 | 15°42 | 15°55 | 17°54 | 25°44 | 1° 8 | 25°36 | 23°29 | 28°29 | 7°57 | 6°25 | 14° 1 | 27° 5 | T 29 |
| F 30 | 6 33 35 | 8°26'07 | 3♋45 | 14°36 | 17°11 | 18°25 | 25°46 | 1°15 | 25°39 | 23°31 | 28°28 | 7°55 | 6°22 | 14° 8 | 27° 8 | F 30 |
| S 31 | 6 37 32 | 9♑27'16 | 15♋43 | 13♑22 | 18♑26 | 18♎55 | 25♈48 | 1♒22 | 25♒41 | 23♑33 | 28♊27 | 7♊50 | 6♊19 | 14♊15 | 27♒11 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 21s50 | 22n53 | 0n28 | 25s37 | 2s16 | 22s 5 | 0n 1 | 0n25 | 1n40 | 8n52 | 1s24 | 21s 1 | 0s29 | 14s 1 | 0s44 | 21s10 | 0n26 | 18n 9 | 5s20 | 21n42 | 21n40 | 22n24 | 7s24 | 5n49 | T 1 |
| F 2 | 21 59 | 24 56 | 1 33 | 25 42 | 2 17 | 22 18 | 0s 2 | 0 12 | 1 41 | 8 51 | 1 23 | 21 0 | 0 29 | 14 1 | 0 44 | 21 10 | 0 26 | 18 9 | 5 20 | 21 42 | 21 40 | 22 25 | 7 24 | 5 48 | F 2 |
| S 3 | 22 7 | 25 51 | 2 33 | 25 46 | 2 19 | 22 30 | 0 4 | 0s 1 | 1 41 | 8 50 | 1 23 | 20 59 | 0 29 | 14 0 | 0 44 | 21 9 | 0 26 | 18 9 | 5 20 | 21 42 | 21 39 | 22 27 | 7 23 | 5 48 | S 3 |
| S 4 | 22 16 | 25 36 | 3 27 | 25 48 | 2 19 | 22 41 | 0 6 | 0 14 | 1 41 | 8 49 | 1 23 | 20 58 | 0 29 | 14 0 | 0 44 | 21 9 | 0 26 | 18 9 | 5 20 | 21 41 | 21 38 | 22 29 | 7 23 | 5 48 | S 4 |
| M 5 | 22 24 | 24 8 | 4 13 | 25 49 | 2 20 | 22 52 | 0 9 | 0 27 | 1 41 | 8 48 | 1 22 | 20 57 | 0 29 | 13 59 | 0 44 | 21 9 | 0 26 | 18 9 | 5 20 | 21 41 | 21 38 | 22 31 | 7 23 | 5 47 | M 5 |
| T 6 | 22 31 | 21 32 | 4 48 | 25 48 | 2 19 | 23 2 | 0 11 | 0 40 | 1 42 | 8 47 | 1 22 | 20 56 | 0 29 | 13 58 | 0 44 | 21 9 | 0 26 | 18 9 | 5 20 | 21 41 | 21 37 | 22 33 | 7 23 | 5 47 | T 6 |
| W 7 | 22 38 | 17 55 | 5 10 | 25 45 | 2 18 | 23 11 | 0 14 | 0 53 | 1 42 | 8 46 | 1 22 | 20 55 | 0 29 | 13 58 | 0 44 | 21 8 | 0 26 | 18 9 | 5 20 | 21 41 | 21 37 | 22 34 | 7 22 | 5 47 | W 7 |
| T 8 | 22 45 | 13 24 | 5 18 | 25 42 | 2 17 | 23 20 | 0 16 | 1 6 | 1 42 | 8 45 | 1 22 | 20 53 | 0 29 | 13 57 | 0 44 | 21 8 | 0 26 | 18 9 | 5 20 | 21 41 | 21 36 | 22 36 | 7 22 | 5 46 | T 8 |
| F 9 | 22 51 | 8 11 | 5 9 | 25 36 | 2 15 | 23 28 | 0 18 | 1 18 | 1 43 | 8 45 | 1 21 | 20 52 | 0 29 | 13 57 | 0 44 | 21 8 | 0 26 | 18 9 | 5 20 | 21 41 | 21 36 | 22 38 | 7 22 | 5 46 | F 9 |
| S 10 | 22 57 | 2 26 | 4 44 | 25 30 | 2 12 | 23 35 | 0 21 | 1 31 | 1 43 | 8 44 | 1 21 | 20 51 | 0 29 | 13 56 | 0 44 | 21 7 | 0 26 | 18 9 | 5 20 | 21 41 | 21 35 | 22 40 | 7 22 | 5 45 | S 10 |
| S 11 | 23 2 | 3s38 | 4 1 | 25 21 | 2 9 | 23 42 | 0 23 | 1 44 | 1 43 | 8 44 | 1 21 | 20 50 | 0 29 | 13 55 | 0 44 | 21 7 | 0 26 | 18 9 | 5 20 | 21 41 | 21 35 | 22 41 | 7 21 | 5 45 | S 11 |
| M12 | 23 7 | 9 42 | 3 2 | 25 12 | 2 4 | 23 47 | 0 25 | 1 56 | 1 44 | 8 43 | 1 20 | 20 49 | 0 29 | 13 55 | 0 44 | 21 7 | 0 26 | 18 9 | 5 20 | 21 41 | 21 34 | 22 43 | 7 21 | 5 45 | M12 |
| T 13 | 23 11 | 15 24 | 1 50 | 25 1 | 1 59 | 23 53 | 0 28 | 2 9 | 1 44 | 8 43 | 1 20 | 20 47 | 0 29 | 13 54 | 0 44 | 21 6 | 0 26 | 18 9 | 5 20 | 21 42 | 21 34 | 22 45 | 7 20 | 5 44 | T 13 |
| W14 | 23 15 | 20 17 | 0 29 | 24 49 | 1 53 | 23 57 | 0 30 | 2 22 | 1 44 | 8 43 | 1 20 | 20 46 | 0 29 | 13 53 | 0 44 | 21 6 | 0 26 | 18 9 | 5 20 | 21 42 | 21 33 | 22 47 | 7 20 | 5 44 | W14 |
| T 15 | 23 18 | 23 51 | 0s55 | 24 35 | 1 46 | 24 0 | 0 32 | 2 34 | 1 45 | 8 43 | 1 19 | 20 45 | 0 29 | 13 53 | 0 44 | 21 6 | 0 26 | 18 9 | 5 20 | 21 42 | 21 33 | 22 48 | 7 20 | 5 44 | T 15 |
| F 16 | 23 21 | 25 41 | 2 15 | 24 21 | 1 38 | 24 3 | 0 34 | 2 46 | 1 45 | 8 42 | 1 19 | 20 44 | 0 29 | 13 52 | 0 44 | 21 6 | 0 26 | 18 9 | 5 20 | 21 41 | 21 32 | 22 50 | 7 19 | 5 43 | F 16 |
| S 17 | 23 24 | 25 37 | 3 25 | 24 5 | 1 29 | 24 5 | 0 37 | 2 59 | 1 45 | 8 42 | 1 19 | 20 42 | 0 30 | 13 51 | 0 44 | 21 5 | 0 26 | 18 9 | 5 20 | 21 41 | 21 32 | 22 52 | 7 19 | 5 43 | S 17 |
| S 18 | 23 26 | 23 43 | 4 19 | 23 49 | 1 19 | 24 7 | 0 39 | 3 11 | 1 46 | 8 42 | 1 18 | 20 41 | 0 30 | 13 50 | 0 44 | 21 5 | 0 26 | 18 9 | 5 20 | 21 41 | 21 31 | 22 54 | 7 18 | 5 43 | S 18 |
| M19 | 23 27 | 20 21 | 4 56 | 23 32 | 1 7 | 24 7 | 0 41 | 3 23 | 1 46 | 8 43 | 1 18 | 20 40 | 0 30 | 13 50 | 0 44 | 21 5 | 0 26 | 18 9 | 5 20 | 21 40 | 21 31 | 22 55 | 7 18 | 5 42 | M19 |
| T 20 | 23 28 | 15 56 | 5 14 | 23 14 | 0 55 | 24 7 | 0 43 | 3 35 | 1 46 | 8 43 | 1 18 | 20 38 | 0 30 | 13 49 | 0 44 | 21 4 | 0 26 | 18 9 | 5 20 | 21 40 | 21 30 | 22 57 | 7 17 | 5 42 | T 20 |
| W21 | 23 29 | 10 52 | 5 14 | 22 57 | 0 41 | 24 6 | 0 45 | 3 47 | 1 47 | 8 43 | 1 17 | 20 37 | 0 30 | 13 48 | 0 44 | 21 4 | 0 26 | 18 9 | 5 19 | 21 40 | 21 30 | 22 59 | 7 17 | 5 42 | W21 |
| T 22 | 23 29 | 5 28 | 4 57 | 22 39 | 0 26 | 24 5 | 0 47 | 3 59 | 1 47 | 8 43 | 1 17 | 20 36 | 0 30 | 13 47 | 0 44 | 21 4 | 0 26 | 18 9 | 5 19 | 21 40 | 21 29 | 23 0 | 7 16 | 5 41 | T 22 |
| F 23 | 23 29 | 0 1 | 4 27 | 22 21 | 0 10 | 24 2 | 0 49 | 4 11 | 1 47 | 8 44 | 1 17 | 20 34 | 0 30 | 13 47 | 0 44 | 21 3 | 0 26 | 18 9 | 5 19 | 21 40 | 21 28 | 23 2 | 7 16 | 5 41 | F 23 |
| S 24 | 23 28 | 5n19 | 3 45 | 22 4 | 0n 8 | 23 59 | 0 51 | 4 23 | 1 48 | 8 44 | 1 17 | 20 33 | 0 30 | 13 46 | 0 44 | 21 3 | 0 26 | 18 9 | 5 19 | 21 40 | 21 28 | 23 4 | 7 15 | 5 41 | S 24 |
| S 25 | 23 26 | 10 21 | 2 54 | 21 48 | 0 26 | 23 55 | 0 53 | 4 35 | 1 48 | 8 45 | 1 16 | 20 32 | 0 30 | 13 45 | 0 44 | 21 2 | 0 26 | 18 9 | 5 19 | 21 40 | 21 27 | 23 5 | 7 14 | 5 40 | S 25 |
| M26 | 23 25 | 14 57 | 1 56 | 21 32 | 0 45 | 23 51 | 0 55 | 4 47 | 1 48 | 8 45 | 1 16 | 20 30 | 0 30 | 13 44 | 0 44 | 21 2 | 0 26 | 18 9 | 5 19 | 21 40 | 21 27 | 23 7 | 7 14 | 5 40 | M26 |
| T 27 | 23 22 | 18 57 | 0 53 | 21 17 | 1 4 | 23 45 | 0 57 | 4 58 | 1 48 | 8 46 | 1 16 | 20 29 | 0 30 | 13 43 | 0 43 | 21 2 | 0 26 | 18 9 | 5 19 | 21 41 | 21 26 | 23 9 | 7 13 | 5 40 | T 27 |
| W28 | 23 20 | 22 12 | 0n12 | 21 4 | 1 24 | 23 39 | 0 59 | 5 10 | 1 49 | 8 47 | 1 15 | 20 27 | 0 30 | 13 42 | 0 43 | 21 1 | 0 26 | 18 9 | 5 19 | 21 41 | 21 26 | 23 11 | 7 12 | 5 39 | W28 |
| T 29 | 23 17 | 24 30 | 1 16 | 20 51 | 1 43 | 23 32 | 1 1 | 5 21 | 1 49 | 8 48 | 1 15 | 20 26 | 0 30 | 13 41 | 0 43 | 21 1 | 0 26 | 18 10 | 5 19 | 21 41 | 21 25 | 23 12 | 7 12 | 5 39 | T 29 |
| F 30 | 23 13 | 25 42 | 2 17 | 20 40 | 2 2 | 23 25 | 1 3 | 5 33 | 1 49 | 8 49 | 1 15 | 20 25 | 0 30 | 13 41 | 0 43 | 21 1 | 0 26 | 18 10 | 5 19 | 21 40 | 21 25 | 23 14 | 7 11 | 5 39 | F 30 |
| S 31 | 23s 9 | 25n44 | 3n12 | 20s30 | 2n19 | 23s16 | 1s 4 | 5s44 | 1n50 | 8n50 | 1s14 | 20s23 | 0s30 | 13s40 | 0s43 | 21s 0 | 0n26 | 18n10 | 5s19 | 21n39 | 21n24 | 23n16 | 7s10 | 5n38 | S 31 |

Julian Day Number = 2330253.5, Delta T = 31.09 sec
Ecliptic obliquity = 23°29'00, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'18, Lahiri = 19°13'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## JANUARY 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 41 29 | 10♑28'25 | 27♋49 | 12°R 4 | 19♑41 | 19♎26 | 25♈50 | 1♒29 | 25♒44 | 23♑36 | 28°R26 | 7°R45 | 6♊16 | 14♊21 | 27♒14 | S 1 |
| M 2 | 6 45 25 | 11°29'34 | 10♌ 4 | 10♑44 | 20°57 | 19°56 | 25°52 | 1°35 | 25°47 | 23°38 | 28♊24 | 7♊39 | 6°13 | 14°28 | 27°17 | M 2 |
| T 3 | 6 49 22 | 12°30'43 | 22°30 | 9°23 | 22°12 | 20°26 | 25°55 | 1°42 | 25°49 | 23°40 | 28°23 | 7°32 | 6° 9 | 14°35 | 27°20 | T 3 |
| W 4 | 6 53 18 | 13°31'51 | 5♍ 7 | 8° 6 | 23°27 | 20°56 | 25°58 | 1°49 | 25°52 | 23°42 | 28°22 | 7°27 | 6° 6 | 14°41 | 27°23 | W 4 |
| T 5 | 6 57 15 | 14°33'00 | 17°58 | 6°53 | 24°43 | 21°26 | 26° 1 | 1°56 | 25°55 | 23°44 | 28°21 | 7°22 | 6° 3 | 14°48 | 27°27 | T 5 |
| F 6 | 7 1 11 | 15°34'08 | 1♎ 4 | 5°47 | 25°58 | 21°56 | 26° 4 | 2° 3 | 25°58 | 23°47 | 28°20 | 7°19 | 6° 0 | 14°55 | 27°30 | F 6 |
| S 7 | 7 5 8 | 16°35'17 | 14°28 | 4°50 | 27°13 | 22°25 | 26° 7 | 2°10 | 26° 1 | 23°49 | 28°19 | 7°D18 | 5°57 | 15° 1 | 27°33 | S 7 |
| S 8 | 7 9 4 | 17°36'26 | 28°10 | 4° 1 | 28°29 | 22°55 | 26°11 | 2°17 | 26° 4 | 23°51 | 28°17 | 7°18 | 5°54 | 15° 8 | 27°37 | S 8 |
| M 9 | 7 13 1 | 18°37'34 | 12♏13 | 3°23 | 29°44 | 23°24 | 26°15 | 2°24 | 26° 6 | 23°54 | 28°16 | 7°20 | 5°50 | 15°15 | 27°40 | M 9 |
| T 10 | 7 16 58 | 19°38'42 | 26°36 | 2°53 | 0♒59 | 23°53 | 26°19 | 2°31 | 26° 9 | 23°56 | 28°15 | 7°21 | 5°47 | 15°21 | 27°43 | T 10 |
| W11 | 7 20 54 | 20°39'51 | 11♐16 | 2°34 | 2°15 | 24°22 | 26°23 | 2°38 | 26°12 | 23°58 | 28°14 | 7°R21 | 5°44 | 15°28 | 27°47 | W11 |
| T 12 | 7 24 51 | 21°40'59 | 26°10 | 2°24 | 3°30 | 24°51 | 26°27 | 2°45 | 26°15 | 24° 0 | 28°13 | 7°20 | 5°41 | 15°35 | 27°50 | T 12 |
| F 13 | 7 28 47 | 22°42'07 | 11♑10 | 2°D22 | 4°45 | 25°19 | 26°32 | 2°52 | 26°18 | 24° 3 | 28°12 | 7°16 | 5°38 | 15°41 | 27°54 | F 13 |
| S 14 | 7 32 44 | 23°43'14 | 26° 7 | 2°29 | 6° 1 | 25°47 | 26°36 | 2°59 | 26°21 | 24° 5 | 28°11 | 7°10 | 5°35 | 15°48 | 27°57 | S 14 |
| S 15 | 7 36 40 | 24°44'20 | 10♒53 | 2°43 | 7°16 | 26°16 | 26°41 | 3° 6 | 26°24 | 24° 7 | 28°10 | 7° 3 | 5°31 | 15°54 | 28° 1 | S 15 |
| M16 | 7 40 37 | 25°45'26 | 25°20 | 3° 4 | 8°31 | 26°44 | 26°46 | 3°13 | 26°27 | 24° 9 | 28° 9 | 6°55 | 5°28 | 16° 1 | 28° 4 | M16 |
| T 17 | 7 44 33 | 26°46'31 | 9♓21 | 3°32 | 9°46 | 27°11 | 26°52 | 3°21 | 26°31 | 24°12 | 28° 8 | 6°47 | 5°25 | 16° 8 | 28° 8 | T 17 |
| W18 | 7 48 30 | 27°47'34 | 22°55 | 4° 5 | 11° 2 | 27°39 | 26°57 | 3°28 | 26°34 | 24°14 | 28° 7 | 6°40 | 5°22 | 16°14 | 28°12 | W18 |
| T 19 | 7 52 27 | 28°48'37 | 6♈ 0 | 4°44 | 12°17 | 28° 6 | 27° 3 | 3°35 | 26°37 | 24°16 | 28° 6 | 6°35 | 5°19 | 16°21 | 28°15 | T 19 |
| F 20 | 7 56 23 | 29°49'39 | 18°41 | 5°27 | 13°32 | 28°34 | 27° 9 | 3°42 | 26°40 | 24°19 | 28° 5 | 6°32 | 5°15 | 16°28 | 28°19 | F 20 |
| S 21 | 8 0 20 | 0♒50'40 | 1♉ 0 | 6°14 | 14°47 | 29° 1 | 27°15 | 3°49 | 26°43 | 24°21 | 28° 4 | 6°D32 | 5°12 | 16°34 | 28°23 | S 21 |
| S 22 | 8 4 16 | 1°51'39 | 13° 4 | 7° 6 | 16° 2 | 29°27 | 27°21 | 3°56 | 26°46 | 24°23 | 28° 3 | 6°32 | 5° 9 | 16°41 | 28°26 | S 22 |
| M23 | 8 8 13 | 2°52'38 | 24°56 | 8° 1 | 17°17 | 29°54 | 27°27 | 4° 3 | 26°50 | 24°25 | 28° 2 | 6°33 | 5° 6 | 16°48 | 28°30 | M23 |
| T 24 | 8 12 9 | 3°53'35 | 6♊43 | 8°59 | 18°32 | 0♏20 | 27°34 | 4°11 | 26°53 | 24°28 | 28° 1 | 6°R34 | 5° 3 | 16°54 | 28°34 | T 24 |
| W25 | 8 16 6 | 4°54'31 | 18°30 | 10° 0 | 19°48 | 0°46 | 27°40 | 4°18 | 26°56 | 24°30 | 28° 0 | 6°33 | 5° 0 | 17° 1 | 28°38 | W25 |
| T 26 | 8 20 2 | 5°55'26 | 0♋20 | 11° 3 | 21° 3 | 1°12 | 27°47 | 4°25 | 26°59 | 24°32 | 27°59 | 6°30 | 4°56 | 17° 8 | 28°42 | T 26 |
| F 27 | 8 23 59 | 6°56'20 | 12°18 | 12° 9 | 22°18 | 1°38 | 27°54 | 4°32 | 27° 3 | 24°34 | 27°58 | 6°24 | 4°53 | 17°14 | 28°45 | F 27 |
| S 28 | 8 27 56 | 7°57'12 | 24°25 | 13°17 | 23°33 | 2° 3 | 28° 1 | 4°39 | 27° 6 | 24°37 | 27°57 | 6°16 | 4°50 | 17°21 | 28°49 | S 28 |
| S 29 | 8 31 52 | 8°58'04 | 6♌45 | 14°28 | 24°48 | 2°28 | 28° 8 | 4°46 | 27° 9 | 24°39 | 27°56 | 6° 5 | 4°47 | 17°28 | 28°53 | S 29 |
| M30 | 8 35 49 | 9°58'54 | 19°16 | 15°40 | 26° 3 | 2°53 | 28°16 | 4°53 | 27°13 | 24°41 | 27°55 | 5°54 | 4°44 | 17°34 | 28°57 | M30 |
| T 31 | 8 39 45 | 10♒59'43 | 2♍ 0 | 16♑54 | 27♒18 | 3♏18 | 28♈23 | 5♒ 1 | 27♒16 | 24♑43 | 27♊54 | 5♊41 | 4♊41 | 17♊41 | 29♒ 1 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 23s 4 | 24n33 | 3n59 | 20s22 | 2n35 | 23s 7 | 1s 6 | 5s55 | 1n50 | 8n51 | 1s14 | 20s22 | 0s30 | 13s39 | 0s43 | 21s 0 | 0n26 | 18n10 | 5s19 | 21n39 | 21n24 | 23n17 | 7s 9 | 5n38 | S 1 |
| M 2 | 22 59 | 22 11 | 4 36 | 20 15 | 2 49 | 22 58 | 1 8 | 6 6 | 1 50 | 8 52 | 1 14 | 20 20 | 0 30 | 13 38 | 0 43 | 21 0 | 0 26 | 18 10 | 5 19 | 21 38 | 21 23 | 23 19 | 7 9 | 5 38 | M 2 |
| T 3 | 22 54 | 18 46 | 5 1 | 20 9 | 3 0 | 22 47 | 1 9 | 6 17 | 1 51 | 8 53 | 1 13 | 20 19 | 0 30 | 13 37 | 0 43 | 20 59 | 0 25 | 18 10 | 5 19 | 21 36 | 21 23 | 23 20 | 7 8 | 5 38 | T 3 |
| W 4 | 22 48 | 14 28 | 5 11 | 20 5 | 3 9 | 22 36 | 1 11 | 6 28 | 1 51 | 8 55 | 1 13 | 20 17 | 0 30 | 13 36 | 0 43 | 20 59 | 0 25 | 18 10 | 5 19 | 21 36 | 21 22 | 23 22 | 7 7 | 5 37 | W 4 |
| T 5 | 22 41 | 9 27 | 5 6 | 20 3 | 3 16 | 22 24 | 1 12 | 6 39 | 1 51 | 8 56 | 1 13 | 20 16 | 0 31 | 13 35 | 0 43 | 20 58 | 0 25 | 18 10 | 5 18 | 21 35 | 21 21 | 23 24 | 7 6 | 5 37 | T 5 |
| F 6 | 22 34 | 3 56 | 4 45 | 20 2 | 3 20 | 22 12 | 1 14 | 6 50 | 1 51 | 8 57 | 1 12 | 20 14 | 0 31 | 13 34 | 0 43 | 20 58 | 0 25 | 18 10 | 5 18 | 21 34 | 21 21 | 23 25 | 7 5 | 5 37 | F 6 |
| S 7 | 22 27 | 1s54 | 4 8 | 20 2 | 3 21 | 21 59 | 1 15 | 7 1 | 1 52 | 8 59 | 1 12 | 20 13 | 0 31 | 13 33 | 0 43 | 20 58 | 0 25 | 18 10 | 5 18 | 21 34 | 21 20 | 23 27 | 7 4 | 5 36 | S 7 |
| S 8 | 22 19 | 7 47 | 3 17 | 20 4 | 3 21 | 21 45 | 1 17 | 7 11 | 1 52 | 9 1 | 1 12 | 20 11 | 0 31 | 13 32 | 0 43 | 20 57 | 0 25 | 18 10 | 5 18 | 21 34 | 21 20 | 23 29 | 7 4 | 5 36 | S 8 |
| M 9 | 22 11 | 13 26 | 2 12 | 20 8 | 3 19 | 21 31 | 1 18 | 7 22 | 1 52 | 9 2 | 1 12 | 20 10 | 0 31 | 13 31 | 0 43 | 20 57 | 0 25 | 18 10 | 5 18 | 21 34 | 21 19 | 23 30 | 7 3 | 5 36 | M 9 |
| T 10 | 22 3 | 18 29 | 0 58 | 20 13 | 3 15 | 21 16 | 1 19 | 7 32 | 1 53 | 9 4 | 1 11 | 20 8 | 0 31 | 13 30 | 0 43 | 20 57 | 0 25 | 18 10 | 5 18 | 21 35 | 21 19 | 23 32 | 7 2 | 5 36 | T 10 |
| W11 | 21 53 | 22 31 | 0s21 | 20 18 | 3 9 | 21 0 | 1 20 | 7 43 | 1 53 | 9 6 | 1 11 | 20 7 | 0 31 | 13 29 | 0 43 | 20 56 | 0 25 | 18 10 | 5 18 | 21 35 | 21 18 | 23 33 | 7 1 | 5 35 | W11 |
| T 12 | 21 44 | 25 6 | 1 40 | 20 25 | 3 3 | 20 44 | 1 21 | 7 53 | 1 53 | 9 8 | 1 11 | 20 5 | 0 31 | 13 28 | 0 43 | 20 56 | 0 25 | 18 11 | 5 18 | 21 34 | 21 18 | 23 35 | 7 0 | 5 35 | T 12 |
| F 13 | 21 34 | 25 53 | 2 53 | 20 33 | 2 55 | 20 27 | 1 22 | 8 3 | 1 53 | 9 10 | 1 10 | 20 3 | 0 31 | 13 27 | 0 43 | 20 55 | 0 25 | 18 11 | 5 18 | 21 34 | 21 17 | 23 37 | 6 59 | 5 35 | F 13 |
| S 14 | 21 24 | 24 46 | 3 53 | 20 41 | 2 47 | 20 9 | 1 23 | 8 13 | 1 54 | 9 12 | 1 10 | 20 2 | 0 31 | 13 26 | 0 43 | 20 55 | 0 25 | 18 11 | 5 18 | 21 33 | 21 16 | 23 38 | 6 58 | 5 35 | S 14 |
| S 15 | 21 13 | 21 58 | 4 36 | 20 50 | 2 38 | 19 51 | 1 24 | 8 23 | 1 54 | 9 14 | 1 10 | 20 0 | 0 31 | 13 25 | 0 43 | 20 55 | 0 25 | 18 11 | 5 17 | 21 32 | 21 16 | 23 40 | 6 57 | 5 34 | S 15 |
| M16 | 21 2 | 17 50 | 5 1 | 20 59 | 2 28 | 19 32 | 1 25 | 8 33 | 1 54 | 9 16 | 1 9 | 19 59 | 0 31 | 13 24 | 0 43 | 20 54 | 0 25 | 18 11 | 5 17 | 21 30 | 21 15 | 23 41 | 6 56 | 5 34 | M16 |
| T 17 | 20 50 | 12 49 | 5 7 | 21 8 | 2 18 | 19 13 | 1 26 | 8 43 | 1 54 | 9 18 | 1 9 | 19 57 | 0 31 | 13 23 | 0 43 | 20 54 | 0 25 | 18 11 | 5 17 | 21 29 | 21 15 | 23 43 | 6 55 | 5 34 | T 17 |
| W18 | 20 38 | 7 20 | 4 55 | 21 17 | 2 8 | 18 53 | 1 27 | 8 52 | 1 55 | 9 20 | 1 9 | 19 55 | 0 31 | 13 22 | 0 43 | 20 54 | 0 25 | 18 11 | 5 17 | 21 28 | 21 14 | 23 44 | 6 54 | 5 34 | W18 |
| T 19 | 20 26 | 1 43 | 4 28 | 21 26 | 1 58 | 18 33 | 1 28 | 9 2 | 1 55 | 9 22 | 1 9 | 19 54 | 0 31 | 13 20 | 0 43 | 20 53 | 0 25 | 18 11 | 5 17 | 21 27 | 21 14 | 23 46 | 6 53 | 5 34 | T 19 |
| F 20 | 20 13 | 3n48 | 3 49 | 21 34 | 1 48 | 18 12 | 1 28 | 9 11 | 1 55 | 9 25 | 1 8 | 19 52 | 0 31 | 13 19 | 0 43 | 20 53 | 0 25 | 18 11 | 5 17 | 21 26 | 21 13 | 23 47 | 6 52 | 5 33 | F 20 |
| S 21 | 20 0 | 9 3 | 2 59 | 21 43 | 1 38 | 17 51 | 1 29 | 9 21 | 1 55 | 9 27 | 1 8 | 19 51 | 0 32 | 13 18 | 0 43 | 20 52 | 0 25 | 18 11 | 5 17 | 21 26 | 21 12 | 23 49 | 6 51 | 5 33 | S 21 |
| S 22 | 19 47 | 13 50 | 2 3 | 21 50 | 1 27 | 17 29 | 1 29 | 9 30 | 1 56 | 9 30 | 1 8 | 19 49 | 0 32 | 13 17 | 0 43 | 20 52 | 0 25 | 18 12 | 5 17 | 21 26 | 21 12 | 23 51 | 6 50 | 5 33 | S 22 |
| M23 | 19 33 | 18 2 | 1 2 | 21 57 | 1 17 | 17 6 | 1 30 | 9 39 | 1 56 | 9 32 | 1 7 | 19 47 | 0 32 | 13 16 | 0 43 | 20 52 | 0 25 | 18 12 | 5 17 | 21 27 | 21 11 | 23 52 | 6 49 | 5 33 | M23 |
| T 24 | 19 19 | 21 29 | 0n 1 | 22 4 | 1 7 | 16 44 | 1 30 | 9 48 | 1 56 | 9 35 | 1 7 | 19 46 | 0 32 | 13 15 | 0 43 | 20 51 | 0 25 | 18 12 | 5 16 | 21 27 | 21 11 | 23 54 | 6 47 | 5 33 | T 24 |
| W25 | 19 4 | 24 2 | 1 4 | 22 9 | 0 57 | 16 20 | 1 30 | 9 57 | 1 56 | 9 37 | 1 7 | 19 44 | 0 32 | 13 14 | 0 43 | 20 51 | 0 25 | 18 12 | 5 16 | 21 27 | 21 10 | 23 55 | 6 46 | 5 32 | W25 |
| T 26 | 18 50 | 25 33 | 2 4 | 22 14 | 0 47 | 15 56 | 1 31 | 10 5 | 1 57 | 9 40 | 1 7 | 19 42 | 0 32 | 13 13 | 0 43 | 20 50 | 0 25 | 18 12 | 5 16 | 21 26 | 21 10 | 23 57 | 6 45 | 5 32 | T 26 |
| F 27 | 18 34 | 25 53 | 2 59 | 22 18 | 0 38 | 15 32 | 1 31 | 10 14 | 1 57 | 9 43 | 1 6 | 19 41 | 0 32 | 13 11 | 0 43 | 20 50 | 0 25 | 18 12 | 5 16 | 21 25 | 21 9 | 23 58 | 6 44 | 5 32 | F 27 |
| S 28 | 18 19 | 24 59 | 3 47 | 22 21 | 0 28 | 15 8 | 1 31 | 10 23 | 1 57 | 9 46 | 1 6 | 19 39 | 0 32 | 13 10 | 0 43 | 20 50 | 0 25 | 18 12 | 5 16 | 21 24 | 21 8 | 24 0 | 6 43 | 5 32 | S 28 |
| S 29 | 18 3 | 22 53 | 4 25 | 22 23 | 0 19 | 14 43 | 1 31 | 10 31 | 1 57 | 9 48 | 1 6 | 19 38 | 0 32 | 13 9 | 0 43 | 20 49 | 0 25 | 18 12 | 5 16 | 21 22 | 21 8 | 24 1 | 6 42 | 5 32 | S 29 |
| M30 | 17 47 | 19 40 | 4 50 | 22 24 | 0 10 | 14 17 | 1 31 | 10 39 | 1 57 | 9 51 | 1 6 | 19 36 | 0 32 | 13 8 | 0 43 | 20 49 | 0 25 | 18 12 | 5 16 | 21 20 | 21 7 | 24 3 | 6 41 | 5 32 | M30 |
| T 31 | 17s30 | 15n28 | 5n 2 | 22s24 | 0n 1 | 13s51 | 1s31 | 10s48 | 1n58 | 9n54 | 1s 5 | 19s34 | 0s32 | 13s 7 | 0s43 | 20s48 | 0n25 | 18n13 | 5s15 | 21n18 | 21n 7 | 24n 4 | 6s39 | 5n31 | T 31 |

Julian Day Number = 2330284.5, Delta T = 31.03 sec
Ecliptic obliquity = 23°29'00, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'22, Lahiri = 19°13'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## FEBRUARY 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 43 42 | 12♒ 0'31 | 14♍57 | 18♑ 9 | 28♒33 | 3♏42 | 28♈31 | 5♒ 8 | 27♒19 | 24♑45 | 27°R54 | 5°R30 | 4♊37 | 17♊48 | 29♒ 5 | W 1 |
| T 2 | 8 47 38 | 13° 1'18 | 28° 4 | 19°26 | 29°48 | 4° 6 | 28°39 | 5°15 | 27°23 | 24°48 | 27♊53 | 5♊21 | 4°34 | 17°54 | 29° 9 | T 2 |
| F 3 | 8 51 35 | 14° 2'04 | 11♎23 | 20°44 | 1♓ 2 | 4°30 | 28°47 | 5°22 | 27°26 | 24°50 | 27°52 | 5°14 | 4°31 | 18° 1 | 29°13 | F 3 |
| S 4 | 8 55 31 | 15° 2'48 | 24°53 | 22° 4 | 2°17 | 4°54 | 28°55 | 5°29 | 27°29 | 24°52 | 27°51 | 5° 9 | 4°28 | 18° 7 | 29°17 | S 4 |
| S 5 | 8 59 28 | 16° 3'32 | 8♏35 | 23°25 | 3°32 | 5°17 | 29° 4 | 5°36 | 27°33 | 24°54 | 27°50 | 5° 8 | 4°25 | 18°14 | 29°21 | S 5 |
| M 6 | 9 3 25 | 17° 4'15 | 22°30 | 24°48 | 4°47 | 5°40 | 29°12 | 5°43 | 27°36 | 24°56 | 27°50 | 5°D 8 | 4°21 | 18°21 | 29°25 | M 6 |
| T 7 | 9 7 21 | 18° 4'57 | 6♐37 | 26°11 | 6° 2 | 6° 2 | 29°21 | 5°50 | 27°40 | 24°58 | 27°49 | 5°R 8 | 4°18 | 18°27 | 29°29 | T 7 |
| W 8 | 9 11 18 | 19° 5'38 | 20°55 | 27°35 | 7°17 | 6°25 | 29°29 | 5°57 | 27°43 | 25° 1 | 27°48 | 5° 7 | 4°15 | 18°34 | 29°33 | W 8 |
| T 9 | 9 15 14 | 20° 6'17 | 5♑24 | 29° 1 | 8°31 | 6°47 | 29°38 | 6° 4 | 27°47 | 25° 3 | 27°48 | 5° 4 | 4°12 | 18°41 | 29°37 | T 9 |
| F 10 | 9 19 11 | 21° 6'56 | 19°59 | 0♒28 | 9°46 | 7° 8 | 29°47 | 6°11 | 27°50 | 25° 5 | 27°47 | 4°58 | 4° 9 | 18°47 | 29°41 | F 10 |
| S 11 | 9 23 7 | 22° 7'33 | 4♒33 | 1°55 | 11° 1 | 7°30 | 29°56 | 6°18 | 27°53 | 25° 7 | 27°46 | 4°49 | 4° 6 | 18°54 | 29°45 | S 11 |
| S 12 | 9 27 4 | 23° 8'09 | 19° 2 | 3°24 | 12°16 | 7°51 | 0♉ 6 | 6°25 | 27°57 | 25° 9 | 27°46 | 4°38 | 4° 2 | 19° 1 | 29°49 | S 12 |
| M13 | 9 31 0 | 24° 8'43 | 3♓16 | 4°54 | 13°30 | 8°11 | 0°15 | 6°32 | 28° 0 | 25°11 | 27°45 | 4°26 | 3°59 | 19° 7 | 29°53 | M13 |
| T 14 | 9 34 57 | 25° 9'15 | 17°12 | 6°24 | 14°45 | 8°32 | 0°25 | 6°39 | 28° 4 | 25°13 | 27°44 | 4°14 | 3°56 | 19°14 | 29°57 | T 14 |
| W15 | 9 38 54 | 26° 9'46 | 0♈44 | 7°56 | 16° 0 | 8°52 | 0°34 | 6°46 | 28° 7 | 25°15 | 27°44 | 4° 3 | 3°53 | 19°21 | 0♓ 1 | W15 |
| T 16 | 9 42 50 | 27°10'15 | 13°51 | 9°29 | 17°14 | 9°11 | 0°44 | 6°53 | 28°11 | 25°17 | 27°43 | 3°54 | 3°50 | 19°27 | 0° 5 | T 16 |
| F 17 | 9 46 47 | 28°10'42 | 26°34 | 11° 2 | 18°29 | 9°30 | 0°54 | 7° 0 | 28°14 | 25°19 | 27°43 | 3°48 | 3°46 | 19°34 | 0° 9 | F 17 |
| S 18 | 9 50 43 | 29°11'07 | 8♉56 | 12°37 | 19°43 | 9°49 | 1° 4 | 7° 7 | 28°18 | 25°21 | 27°42 | 3°45 | 3°43 | 19°41 | 0°13 | S 18 |
| S 19 | 9 54 40 | 0♓11'31 | 21° 2 | 14°12 | 20°58 | 10° 8 | 1°14 | 7°13 | 28°21 | 25°23 | 27°42 | 3°44 | 3°40 | 19°47 | 0°17 | S 19 |
| M20 | 9 58 36 | 1°11'52 | 2♊56 | 15°49 | 22°12 | 10°26 | 1°24 | 7°20 | 28°24 | 25°25 | 27°41 | 3°44 | 3°37 | 19°54 | 0°22 | M20 |
| T 21 | 10 2 33 | 2°12'12 | 14°44 | 17°26 | 23°27 | 10°43 | 1°35 | 7°27 | 28°28 | 25°27 | 27°41 | 3°43 | 3°34 | 20° 0 | 0°26 | T 21 |
| W22 | 10 6 29 | 3°12'29 | 26°32 | 19° 5 | 24°41 | 11° 0 | 1°45 | 7°34 | 28°31 | 25°29 | 27°40 | 3°42 | 3°31 | 20° 7 | 0°30 | W22 |
| T 23 | 10 10 26 | 4°12'45 | 8♋25 | 20°44 | 25°56 | 11°17 | 1°56 | 7°40 | 28°35 | 25°31 | 27°40 | 3°38 | 3°27 | 20°14 | 0°34 | T 23 |
| F 24 | 10 14 23 | 5°12'58 | 20°27 | 22°24 | 27°10 | 11°33 | 2° 6 | 7°47 | 28°38 | 25°33 | 27°40 | 3°32 | 3°24 | 20°20 | 0°38 | F 24 |
| S 25 | 10 18 19 | 6°13'10 | 2♌42 | 24° 6 | 28°24 | 11°49 | 2°17 | 7°53 | 28°42 | 25°34 | 27°39 | 3°23 | 3°21 | 20°27 | 0°42 | S 25 |
| S 26 | 10 22 16 | 7°13'19 | 15°13 | 25°48 | 29°38 | 12° 4 | 2°28 | 8° 0 | 28°45 | 25°36 | 27°39 | 3°12 | 3°18 | 20°34 | 0°46 | S 26 |
| M27 | 10 26 12 | 8°13'27 | 28° 1 | 27°32 | 0♈53 | 12°19 | 2°39 | 8° 7 | 28°49 | 25°38 | 27°39 | 2°59 | 3°15 | 20°40 | 0°50 | M27 |
| T 28 | 10 30 9 | 9°13'33 | 11♍ 5 | 29°17 | 2° 7 | 12°34 | 2°50 | 8°13 | 28°52 | 25°40 | 27°38 | 2°45 | 3°12 | 20°47 | 0°54 | T 28 |
| W29 | 10 34 5 | 10♓13'37 | 24♍24 | 1♓ 2 | 3♈21 | 12♏48 | 3♉ 1 | 8♒19 | 28♒55 | 25♑42 | 27♊38 | 2♊32 | 3♊ 8 | 20♊54 | 0♓58 | W29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s13 | 10n32 | 4n59 | 22s23 | 0s 8 | 13s25 | 1s31 | 10s56 | 1n58 | 9n57 | 1s 5 | 19s33 | 0s32 | 13s 6 | 0s43 | 20s48 | 0n25 | 18n13 | 5s15 | 21n16 | 21n 6 | 24n 6 | 6s38 | 5n31 |
| T 2 | 16 56 | 5 2 | 4 39 | 22 20 | 0 16 | 12 59 | 1 31 | 11 4 | 1 58 | 10 0 | 1 5 | 19 31 | 0 32 | 13 5 | 0 43 | 20 48 | 0 25 | 18 13 | 5 15 | 21 14 | 21 6 | 24 7 | 6 37 | 5 31 |
| F 3 | 16 39 | 0s45 | 4 5 | 22 17 | 0 24 | 12 32 | 1 30 | 11 11 | 1 58 | 10 3 | 1 4 | 19 29 | 0 32 | 13 3 | 0 43 | 20 47 | 0 25 | 18 13 | 5 15 | 21 13 | 21 5 | 24 8 | 6 36 | 5 31 |
| S 4 | 16 21 | 6 36 | 3 17 | 22 12 | 0 32 | 12 5 | 1 30 | 11 19 | 1 58 | 10 7 | 1 4 | 19 28 | 0 33 | 13 2 | 0 43 | 20 47 | 0 25 | 18 13 | 5 15 | 21 12 | 21 4 | 24 10 | 6 34 | 5 31 |
| S 5 | 16 3 | 12 15 | 2 16 | 22 6 | 0 40 | 11 37 | 1 29 | 11 27 | 1 59 | 10 10 | 1 4 | 19 26 | 0 33 | 13 1 | 0 43 | 20 47 | 0 25 | 18 13 | 5 15 | 21 12 | 21 4 | 24 11 | 6 33 | 5 31 |
| M 6 | 15 45 | 17 21 | 1 7 | 21 59 | 0 47 | 11 9 | 1 29 | 11 34 | 1 59 | 10 13 | 1 4 | 19 24 | 0 33 | 13 0 | 0 43 | 20 46 | 0 25 | 18 13 | 5 15 | 21 12 | 21 3 | 24 13 | 6 32 | 5 31 |
| T 7 | 15 26 | 21 35 | 0s 8 | 21 51 | 0 54 | 10 41 | 1 28 | 11 41 | 1 59 | 10 16 | 1 3 | 19 23 | 0 33 | 12 59 | 0 43 | 20 46 | 0 25 | 18 14 | 5 14 | 21 12 | 21 3 | 24 14 | 6 31 | 5 31 |
| W 8 | 15 8 | 24 33 | 1 23 | 21 41 | 1 1 | 10 13 | 1 28 | 11 49 | 1 59 | 10 20 | 1 3 | 19 21 | 0 33 | 12 57 | 0 43 | 20 45 | 0 25 | 18 14 | 5 14 | 21 12 | 21 2 | 24 16 | 6 29 | 5 30 |
| T 9 | 14 48 | 25 55 | 2 33 | 21 30 | 1 8 | 9 44 | 1 27 | 11 56 | 1 59 | 10 23 | 1 3 | 19 19 | 0 33 | 12 56 | 0 43 | 20 45 | 0 25 | 18 14 | 5 14 | 21 11 | 21 1 | 24 17 | 6 28 | 5 30 |
| F 10 | 14 29 | 25 31 | 3 34 | 21 18 | 1 14 | 9 15 | 1 26 | 12 3 | 1 59 | 10 26 | 1 3 | 19 18 | 0 33 | 12 55 | 0 43 | 20 45 | 0 25 | 18 14 | 5 14 | 21 10 | 21 1 | 24 19 | 6 27 | 5 30 |
| S 11 | 14 10 | 23 22 | 4 20 | 21 4 | 1 20 | 8 46 | 1 25 | 12 9 | 1 59 | 10 30 | 1 3 | 19 16 | 0 33 | 12 54 | 0 43 | 20 44 | 0 25 | 18 14 | 5 14 | 21 8 | 21 0 | 24 20 | 6 25 | 5 30 |
| S 12 | 13 50 | 19 44 | 4 50 | 20 49 | 1 26 | 8 16 | 1 24 | 12 16 | 1 59 | 10 33 | 1 2 | 19 14 | 0 33 | 12 53 | 0 43 | 20 44 | 0 25 | 18 14 | 5 14 | 21 6 | 21 0 | 24 21 | 6 24 | 5 30 |
| M13 | 13 30 | 14 59 | 5 1 | 20 33 | 1 31 | 7 47 | 1 24 | 12 23 | 2 0 | 10 37 | 1 2 | 19 13 | 0 33 | 12 52 | 0 43 | 20 44 | 0 25 | 18 14 | 5 14 | 21 4 | 20 59 | 24 23 | 6 23 | 5 30 |
| T 14 | 13 10 | 9 34 | 4 53 | 20 15 | 1 36 | 7 17 | 1 22 | 12 29 | 2 0 | 10 40 | 1 2 | 19 11 | 0 33 | 12 50 | 0 43 | 20 43 | 0 25 | 18 15 | 5 13 | 21 2 | 20 58 | 24 24 | 6 21 | 5 30 |
| W15 | 12 49 | 3 50 | 4 29 | 19 56 | 1 41 | 6 47 | 1 21 | 12 35 | 2 0 | 10 44 | 1 2 | 19 9 | 0 33 | 12 49 | 0 43 | 20 43 | 0 25 | 18 15 | 5 13 | 21 0 | 20 58 | 24 26 | 6 20 | 5 30 |
| T 16 | 12 29 | 1n55 | 3 52 | 19 36 | 1 45 | 6 17 | 1 20 | 12 41 | 2 0 | 10 48 | 1 1 | 19 8 | 0 34 | 12 48 | 0 43 | 20 42 | 0 25 | 18 15 | 5 13 | 20 58 | 20 57 | 24 27 | 6 19 | 5 30 |
| F 17 | 12 8 | 7 25 | 3 3 | 19 14 | 1 49 | 5 46 | 1 19 | 12 47 | 2 0 | 10 51 | 1 1 | 19 6 | 0 34 | 12 47 | 0 43 | 20 42 | 0 25 | 18 15 | 5 13 | 20 57 | 20 57 | 24 28 | 6 17 | 5 30 |
| S 18 | 11 47 | 12 29 | 2 7 | 18 51 | 1 53 | 5 16 | 1 18 | 12 53 | 2 0 | 10 55 | 1 1 | 19 4 | 0 34 | 12 46 | 0 43 | 20 42 | 0 25 | 18 15 | 5 13 | 20 56 | 20 56 | 24 30 | 6 16 | 5 30 |
| S 19 | 11 26 | 16 58 | 1 7 | 18 27 | 1 56 | 4 45 | 1 16 | 12 59 | 2 0 | 10 59 | 1 1 | 19 3 | 0 34 | 12 44 | 0 43 | 20 41 | 0 25 | 18 15 | 5 13 | 20 56 | 20 55 | 24 31 | 6 15 | 5 30 |
| M20 | 11 4 | 20 43 | 0 4 | 18 1 | 1 59 | 4 15 | 1 15 | 13 5 | 2 0 | 11 2 | 1 0 | 19 1 | 0 34 | 12 43 | 0 43 | 20 41 | 0 25 | 18 15 | 5 12 | 20 56 | 20 55 | 24 32 | 6 13 | 5 30 |
| T 21 | 10 43 | 23 34 | 0n58 | 17 34 | 2 2 | 3 44 | 1 13 | 13 10 | 2 0 | 11 6 | 1 0 | 18 59 | 0 34 | 12 42 | 0 43 | 20 41 | 0 25 | 18 16 | 5 12 | 20 56 | 20 54 | 24 34 | 6 12 | 5 29 |
| W22 | 10 21 | 25 24 | 1 58 | 17 5 | 2 4 | 3 13 | 1 12 | 13 15 | 2 0 | 11 10 | 1 0 | 18 58 | 0 34 | 12 41 | 0 43 | 20 40 | 0 25 | 18 16 | 5 12 | 20 56 | 20 54 | 24 35 | 6 11 | 5 29 |
| T 23 | 9 59 | 26 5 | 2 53 | 16 36 | 2 6 | 2 42 | 1 10 | 13 21 | 2 0 | 11 14 | 1 0 | 18 56 | 0 34 | 12 40 | 0 43 | 20 40 | 0 25 | 18 16 | 5 12 | 20 55 | 20 53 | 24 36 | 6 9 | 5 29 |
| F 24 | 9 37 | 25 33 | 3 40 | 16 4 | 2 7 | 2 11 | 1 8 | 13 26 | 2 0 | 11 18 | 1 0 | 18 55 | 0 34 | 12 38 | 0 43 | 20 40 | 0 25 | 18 16 | 5 12 | 20 54 | 20 52 | 24 38 | 6 8 | 5 29 |
| S 25 | 9 15 | 23 47 | 4 19 | 15 32 | 2 8 | 1 39 | 1 7 | 13 30 | 2 0 | 11 22 | 0 59 | 18 53 | 0 34 | 12 37 | 0 43 | 20 39 | 0 25 | 18 16 | 5 12 | 20 52 | 20 52 | 24 39 | 6 6 | 5 29 |
| S 26 | 8 52 | 20 51 | 4 46 | 14 57 | 2 9 | 1 8 | 1 5 | 13 35 | 2 0 | 11 26 | 0 59 | 18 51 | 0 34 | 12 36 | 0 43 | 20 39 | 0 25 | 18 16 | 5 11 | 20 50 | 20 51 | 24 40 | 6 5 | 5 29 |
| M27 | 8 30 | 16 51 | 4 59 | 14 22 | 2 9 | 0 37 | 1 3 | 13 40 | 2 0 | 11 30 | 0 59 | 18 50 | 0 35 | 12 35 | 0 43 | 20 39 | 0 25 | 18 17 | 5 11 | 20 48 | 20 51 | 24 42 | 6 4 | 5 29 |
| T 28 | 8 8 | 12 0 | 4 57 | 13 45 | 2 9 | 0 6 | 1 1 | 13 44 | 2 0 | 11 34 | 0 59 | 18 48 | 0 35 | 12 34 | 0 43 | 20 38 | 0 25 | 18 17 | 5 11 | 20 45 | 20 50 | 24 43 | 6 2 | 5 29 |
| W29 | 7s45 | 6n30 | 4n39 | 13s 7 | 2s 8 | 0n26 | 0s59 | 13s49 | 1n59 | 11n38 | 0s59 | 18s47 | 0s35 | 12s32 | 0s43 | 20s38 | 0n25 | 18n17 | 5s11 | 20n42 | 20n49 | 24n44 | 6s 1 | 5n29 |

Julian Day Number = 2330315.5, Delta T = 30.98 sec
Ecliptic obliquity = 23°29'01, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'26, Lahiri = 19°13'27Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## MARCH 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 38 2 | 11♓13'38 | 7♎56 | 2♓49 | 4♈35 | 13♏ 1 | 3♉13 | 8♒26 | 28♒59 | 25♑43 | 27°R38 | 2°R22 | 3♊ 5 | 21♊ 0 | 1♓ 2 | T 1 |
| F 2 | 10 41 58 | 12°13'39 | 21°38 | 4°37 | 5°49 | 13°14 | 3°24 | 8°32 | 29° 2 | 25°45 | 27♊38 | 2♊14 | 3° 2 | 21° 7 | 1° 6 | F 2 |
| S 3 | 10 45 55 | 13°13'37 | 5♏27 | 6°26 | 7° 3 | 13°26 | 3°35 | 8°39 | 29° 6 | 25°47 | 27°37 | 2° 9 | 2°59 | 21°14 | 1°10 | S 3 |
| S 4 | 10 49 52 | 14°13'34 | 19°23 | 8°16 | 8°17 | 13°38 | 3°47 | 8°45 | 29° 9 | 25°48 | 27°37 | 2° 7 | 2°56 | 21°20 | 1°14 | S 4 |
| M 5 | 10 53 48 | 15°13'30 | 3♐23 | 10° 7 | 9°31 | 13°50 | 3°59 | 8°51 | 29°12 | 25°50 | 27°37 | 2°D 6 | 2°52 | 21°27 | 1°18 | M 5 |
| T 6 | 10 57 45 | 16°13'23 | 17°27 | 12° 0 | 10°45 | 14° 0 | 4°10 | 8°57 | 29°16 | 25°52 | 27°37 | 2°R 6 | 2°49 | 21°34 | 1°22 | T 6 |
| W 7 | 11 1 41 | 17°13'16 | 1♑35 | 13°53 | 11°59 | 14°11 | 4°22 | 9° 3 | 29°19 | 25°53 | 27°37 | 2° 6 | 2°46 | 21°40 | 1°26 | W 7 |
| T 8 | 11 5 38 | 18°13'06 | 15°44 | 15°48 | 13°13 | 14°20 | 4°34 | 9°10 | 29°22 | 25°55 | 27°37 | 2° 3 | 2°43 | 21°47 | 1°30 | T 8 |
| F 9 | 11 9 34 | 19°12'55 | 29°54 | 17°43 | 14°26 | 14°29 | 4°46 | 9°16 | 29°26 | 25°56 | 27°37 | 1°58 | 2°40 | 21°54 | 1°34 | F 9 |
| S 10 | 11 13 31 | 20°12'42 | 14♒ 2 | 19°40 | 15°40 | 14°38 | 4°58 | 9°22 | 29°29 | 25°58 | 27°37 | 1°50 | 2°37 | 22° 0 | 1°38 | S 10 |
| S 11 | 11 17 27 | 21°12'27 | 28° 3 | 21°38 | 16°54 | 14°45 | 5°10 | 9°28 | 29°32 | 25°59 | 27°D37 | 1°40 | 2°33 | 22° 7 | 1°42 | S 11 |
| M12 | 11 21 24 | 22°12'11 | 11♓53 | 23°36 | 18° 7 | 14°53 | 5°22 | 9°33 | 29°35 | 26° 1 | 27°37 | 1°28 | 2°30 | 22°14 | 1°45 | M12 |
| T 13 | 11 25 21 | 23°11'52 | 25°28 | 25°35 | 19°21 | 14°59 | 5°35 | 9°39 | 29°39 | 26° 2 | 27°37 | 1°17 | 2°27 | 22°20 | 1°49 | T 13 |
| W14 | 11 29 17 | 24°11'31 | 8♈46 | 27°35 | 20°35 | 15° 5 | 5°47 | 9°45 | 29°42 | 26° 4 | 27°37 | 1° 6 | 2°24 | 22°27 | 1°53 | W14 |
| T 15 | 11 33 14 | 25°11'08 | 21°44 | 29°36 | 21°48 | 15°10 | 6° 0 | 9°51 | 29°45 | 26° 5 | 27°37 | 0°58 | 2°21 | 22°33 | 1°57 | T 15 |
| F 16 | 11 37 10 | 26°10'43 | 4♉22 | 1♈36 | 23° 2 | 15°15 | 6°12 | 9°57 | 29°48 | 26° 7 | 27°37 | 0°52 | 2°18 | 22°40 | 2° 1 | F 16 |
| S 17 | 11 41 7 | 27°10'16 | 16°42 | 3°37 | 24°15 | 15°18 | 6°25 | 10° 2 | 29°52 | 26° 8 | 27°37 | 0°49 | 2°14 | 22°47 | 2° 5 | S 17 |
| S 18 | 11 45 3 | 28° 9'46 | 28°48 | 5°38 | 25°28 | 15°22 | 6°37 | 10° 8 | 29°55 | 26° 9 | 27°37 | 0°D48 | 2°11 | 22°53 | 2° 8 | S 18 |
| M19 | 11 49 0 | 29° 9'15 | 10♊43 | 7°39 | 26°42 | 15°24 | 6°50 | 10°13 | 29°58 | 26°10 | 27°37 | 0°48 | 2° 8 | 23° 0 | 2°12 | M19 |
| T 20 | 11 52 56 | 0♈ 8'41 | 22°32 | 9°38 | 27°55 | 15°26 | 7° 3 | 10°19 | 0♓ 1 | 26°12 | 27°38 | 0°49 | 2° 5 | 23° 7 | 2°16 | T 20 |
| W21 | 11 56 53 | 1° 8'05 | 4♋21 | 11°37 | 29° 8 | 15°27 | 7°16 | 10°24 | 0° 4 | 26°13 | 27°38 | 0°R49 | 2° 2 | 23°13 | 2°19 | W21 |
| T 22 | 12 0 50 | 2° 7'26 | 16°15 | 13°35 | 0♉21 | 15°R27 | 7°28 | 10°29 | 0° 7 | 26°14 | 27°38 | 0°48 | 1°58 | 23°20 | 2°23 | T 22 |
| F 23 | 12 4 46 | 3° 6'45 | 28°20 | 15°31 | 1°34 | 15°27 | 7°41 | 10°35 | 0°10 | 26°15 | 27°38 | 0°44 | 1°55 | 23°27 | 2°27 | F 23 |
| S 24 | 12 8 43 | 4° 6'02 | 10♌39 | 17°25 | 2°47 | 15°26 | 7°54 | 10°40 | 0°13 | 26°16 | 27°39 | 0°39 | 1°52 | 23°33 | 2°30 | S 24 |
| S 25 | 12 12 39 | 5° 5'17 | 23°16 | 19°16 | 4° 0 | 15°24 | 8° 7 | 10°45 | 0°16 | 26°18 | 27°39 | 0°31 | 1°49 | 23°40 | 2°34 | S 25 |
| M26 | 12 16 36 | 6° 4'29 | 6♍14 | 21° 4 | 5°13 | 15°21 | 8°21 | 10°50 | 0°19 | 26°19 | 27°39 | 0°22 | 1°46 | 23°47 | 2°37 | M26 |
| T 27 | 12 20 32 | 7° 3'39 | 19°33 | 22°50 | 6°26 | 15°18 | 8°34 | 10°55 | 0°22 | 26°20 | 27°40 | 0°13 | 1°43 | 23°53 | 2°41 | T 27 |
| W28 | 12 24 29 | 8° 2'47 | 3♎11 | 24°31 | 7°39 | 15°13 | 8°47 | 11° 0 | 0°25 | 26°21 | 27°40 | 0° 4 | 1°39 | 24° 0 | 2°44 | W28 |
| T 29 | 12 28 25 | 9° 1'52 | 17° 7 | 26° 8 | 8°52 | 15° 9 | 9° 0 | 11° 5 | 0°28 | 26°22 | 27°40 | 29♉57 | 1°36 | 24° 7 | 2°48 | T 29 |
| F 30 | 12 32 22 | 10° 0'56 | 1♏15 | 27°41 | 10° 5 | 15° 3 | 9°13 | 11°10 | 0°31 | 26°23 | 27°41 | 29°51 | 1°33 | 24°13 | 2°51 | F 30 |
| S 31 | 12 36 18 | 10♈59'58 | 15♏31 | 29♈10 | 11♉17 | 14♏56 | 9♉27 | 11♒15 | 0♓34 | 26♑24 | 27♊41 | 29♉48 | 1♊30 | 24♊20 | 2♓55 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s22 | 0n36 | 4n 5 | 12s27 | 2s 7 | 0n57 | 0s57 | 13s53 | 1n59 | 11n42 | 0s58 | 18s45 | 0s35 | 12s31 | 0s43 | 20s38 | 0n25 | 18n17 | 5s11 | 20n40 | 20n49 | 24n46 | 5s59 | 5n29 |
| F 2 | 6 59 | 5s24 | 3 17 | 11 46 | 2 5 | 1 28 | 0 55 | 13 57 | 1 59 | 11 46 | 0 58 | 18 43 | 0 35 | 12 30 | 0 43 | 20 37 | 0 25 | 18 17 | 5 11 | 20 39 | 20 48 | 24 47 | 5 58 | 5 29 |
| S 3 | 6 36 | 11 14 | 2 16 | 11 4 | 2 3 | 2 0 | 0 53 | 14 1 | 1 59 | 11 50 | 0 58 | 18 42 | 0 35 | 12 29 | 0 43 | 20 37 | 0 25 | 18 17 | 5 10 | 20 38 | 20 48 | 24 48 | 5 57 | 5 29 |
| S 4 | 6 13 | 16 32 | 1 7 | 10 21 | 2 0 | 2 31 | 0 51 | 14 4 | 1 59 | 11 54 | 0 58 | 18 40 | 0 35 | 12 28 | 0 43 | 20 37 | 0 25 | 18 17 | 5 10 | 20 37 | 20 47 | 24 50 | 5 55 | 5 29 |
| M 5 | 5 50 | 20 59 | 0s 7 | 9 36 | 1 57 | 3 2 | 0 49 | 14 8 | 1 59 | 11 58 | 0 58 | 18 39 | 0 35 | 12 26 | 0 43 | 20 36 | 0 25 | 18 18 | 5 10 | 20 37 | 20 46 | 24 51 | 5 54 | 5 29 |
| T 6 | 5 27 | 24 14 | 1 20 | 8 49 | 1 53 | 3 33 | 0 46 | 14 11 | 1 58 | 12 2 | 0 57 | 18 37 | 0 35 | 12 25 | 0 43 | 20 36 | 0 25 | 18 18 | 5 10 | 20 37 | 20 46 | 24 52 | 5 52 | 5 29 |
| W 7 | 5 3 | 25 58 | 2 29 | 8 2 | 1 49 | 4 4 | 0 44 | 14 15 | 1 58 | 12 6 | 0 57 | 18 36 | 0 35 | 12 24 | 0 43 | 20 36 | 0 25 | 18 18 | 5 10 | 20 37 | 20 45 | 24 53 | 5 51 | 5 29 |
| T 8 | 4 40 | 26 1 | 3 29 | 7 13 | 1 45 | 4 35 | 0 42 | 14 18 | 1 58 | 12 10 | 0 57 | 18 34 | 0 36 | 12 23 | 0 43 | 20 36 | 0 25 | 18 18 | 5 10 | 20 37 | 20 44 | 24 55 | 5 50 | 5 30 |
| F 9 | 4 17 | 24 23 | 4 16 | 6 23 | 1 39 | 5 6 | 0 39 | 14 21 | 1 58 | 12 15 | 0 57 | 18 33 | 0 36 | 12 22 | 0 43 | 20 35 | 0 25 | 18 18 | 5 9 | 20 36 | 20 44 | 24 56 | 5 48 | 5 30 |
| S 10 | 3 53 | 21 14 | 4 48 | 5 32 | 1 33 | 5 37 | 0 37 | 14 23 | 1 57 | 12 19 | 0 57 | 18 31 | 0 36 | 12 21 | 0 43 | 20 35 | 0 25 | 18 19 | 5 9 | 20 34 | 20 43 | 24 57 | 5 47 | 5 30 |
| S 11 | 3 30 | 16 53 | 5 1 | 4 40 | 1 27 | 6 7 | 0 34 | 14 26 | 1 57 | 12 23 | 0 56 | 18 30 | 0 36 | 12 20 | 0 43 | 20 35 | 0 25 | 18 19 | 5 9 | 20 32 | 20 43 | 24 58 | 5 45 | 5 30 |
| M12 | 3 6 | 11 41 | 4 57 | 3 46 | 1 20 | 6 38 | 0 32 | 14 28 | 1 56 | 12 27 | 0 56 | 18 28 | 0 36 | 12 18 | 0 43 | 20 34 | 0 25 | 18 19 | 5 9 | 20 30 | 20 42 | 25 0 | 5 44 | 5 30 |
| T 13 | 2 42 | 6 1 | 4 36 | 2 52 | 1 13 | 7 8 | 0 29 | 14 31 | 1 56 | 12 31 | 0 56 | 18 27 | 0 36 | 12 17 | 0 43 | 20 34 | 0 25 | 18 19 | 5 9 | 20 27 | 20 41 | 25 1 | 5 42 | 5 30 |
| W14 | 2 19 | 0 12 | 4 0 | 1 57 | 1 5 | 7 39 | 0 26 | 14 33 | 1 56 | 12 36 | 0 56 | 18 25 | 0 36 | 12 16 | 0 43 | 20 34 | 0 25 | 18 19 | 5 9 | 20 25 | 20 41 | 25 2 | 5 41 | 5 30 |
| T 15 | 1 55 | 5n31 | 3 12 | 1 1 | 0 56 | 8 9 | 0 24 | 14 35 | 1 55 | 12 40 | 0 56 | 18 24 | 0 36 | 12 15 | 0 43 | 20 34 | 0 25 | 18 19 | 5 8 | 20 23 | 20 40 | 25 3 | 5 40 | 5 30 |
| F 16 | 1 31 | 10 52 | 2 16 | 0 5 | 0 47 | 8 38 | 0 21 | 14 37 | 1 55 | 12 44 | 0 56 | 18 22 | 0 36 | 12 14 | 0 43 | 20 33 | 0 25 | 18 20 | 5 8 | 20 22 | 20 39 | 25 4 | 5 38 | 5 30 |
| S 17 | 1 8 | 15 40 | 1 15 | 0n52 | 0 38 | 9 8 | 0 18 | 14 38 | 1 54 | 12 49 | 0 55 | 18 21 | 0 37 | 12 13 | 0 43 | 20 33 | 0 25 | 18 20 | 5 8 | 20 21 | 20 39 | 25 6 | 5 37 | 5 30 |
| S 18 | 0 44 | 19 45 | 0 11 | 1 49 | 0 27 | 9 38 | 0 16 | 14 40 | 1 53 | 12 53 | 0 55 | 18 20 | 0 37 | 12 12 | 0 43 | 20 33 | 0 25 | 18 20 | 5 8 | 20 21 | 20 38 | 25 7 | 5 35 | 5 30 |
| M19 | 0 20 | 22 58 | 0n53 | 2 47 | 0 17 | 10 7 | 0 13 | 14 41 | 1 53 | 12 57 | 0 55 | 18 18 | 0 37 | 12 11 | 0 43 | 20 33 | 0 25 | 18 20 | 5 8 | 20 21 | 20 38 | 25 8 | 5 34 | 5 30 |
| T 20 | 0n 3 | 25 10 | 1 54 | 3 44 | 0 6 | 10 36 | 0 10 | 14 42 | 1 52 | 13 1 | 0 55 | 18 17 | 0 37 | 12 10 | 0 43 | 20 32 | 0 25 | 18 20 | 5 8 | 20 21 | 20 37 | 25 9 | 5 33 | 5 30 |
| W21 | 0 27 | 26 14 | 2 50 | 4 41 | 0n 5 | 11 5 | 0 7 | 14 43 | 1 51 | 13 6 | 0 55 | 18 16 | 0 37 | 12 9 | 0 43 | 20 32 | 0 25 | 18 20 | 5 7 | 20 22 | 20 36 | 25 10 | 5 31 | 5 30 |
| T 22 | 0 51 | 26 7 | 3 39 | 5 38 | 0 17 | 11 33 | 0 4 | 14 44 | 1 51 | 13 10 | 0 55 | 18 14 | 0 37 | 12 7 | 0 43 | 20 32 | 0 25 | 18 21 | 5 7 | 20 21 | 20 36 | 25 12 | 5 30 | 5 31 |
| F 23 | 1 14 | 24 45 | 4 19 | 6 33 | 0 28 | 12 1 | 0 1 | 14 45 | 1 50 | 13 14 | 0 55 | 18 13 | 0 37 | 12 6 | 0 43 | 20 32 | 0 25 | 18 21 | 5 7 | 20 21 | 20 35 | 25 13 | 5 28 | 5 31 |
| S 24 | 1 38 | 22 12 | 4 48 | 7 28 | 0 40 | 12 29 | 0n 2 | 14 45 | 1 49 | 13 19 | 0 54 | 18 12 | 0 37 | 12 5 | 0 43 | 20 31 | 0 25 | 18 21 | 5 7 | 20 19 | 20 34 | 25 14 | 5 27 | 5 31 |
| S 25 | 2 2 | 18 33 | 5 3 | 8 22 | 0 52 | 12 57 | 0 4 | 14 45 | 1 48 | 13 23 | 0 54 | 18 10 | 0 38 | 12 4 | 0 43 | 20 31 | 0 25 | 18 21 | 5 7 | 20 18 | 20 34 | 25 15 | 5 26 | 5 31 |
| M26 | 2 25 | 13 57 | 5 4 | 9 14 | 1 4 | 13 24 | 0 7 | 14 45 | 1 47 | 13 28 | 0 54 | 18 9 | 0 38 | 12 3 | 0 43 | 20 31 | 0 25 | 18 21 | 5 7 | 20 16 | 20 33 | 25 16 | 5 24 | 5 31 |
| T 27 | 2 48 | 8 34 | 4 49 | 10 4 | 1 16 | 13 51 | 0 10 | 14 45 | 1 46 | 13 32 | 0 54 | 18 8 | 0 38 | 12 2 | 0 43 | 20 31 | 0 25 | 18 21 | 5 6 | 20 14 | 20 33 | 25 17 | 5 23 | 5 31 |
| W28 | 3 12 | 2 39 | 4 17 | 10 52 | 1 28 | 14 18 | 0 13 | 14 45 | 1 45 | 13 36 | 0 54 | 18 7 | 0 38 | 12 1 | 0 43 | 20 31 | 0 25 | 18 22 | 5 6 | 20 12 | 20 32 | 25 18 | 5 22 | 5 31 |
| T 29 | 3 35 | 3s31 | 3 29 | 11 39 | 1 39 | 14 44 | 0 16 | 14 45 | 1 44 | 13 41 | 0 54 | 18 5 | 0 38 | 12 0 | 0 43 | 20 30 | 0 25 | 18 22 | 5 6 | 20 11 | 20 31 | 25 19 | 5 20 | 5 31 |
| F 30 | 3 58 | 9 37 | 2 28 | 12 23 | 1 50 | 15 10 | 0 19 | 14 44 | 1 43 | 13 45 | 0 54 | 18 4 | 0 38 | 11 59 | 0 43 | 20 30 | 0 25 | 18 22 | 5 6 | 20 9 | 20 31 | 25 21 | 5 19 | 5 32 |
| S 31 | 4n22 | 15s18 | 1n16 | 13n 4 | 2n 0 | 15n36 | 0n22 | 14s43 | 1n42 | 13n49 | 0s53 | 18s 3 | 0s38 | 11s58 | 0s43 | 20s30 | 0n25 | 18n22 | 5s 6 | 20n 9 | 20n30 | 25n22 | 5s18 | 5n32 |

Julian Day Number = 2330344.5, Delta T = 30.93 sec
Ecliptic obliquity = 23°29'02, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'30, Lahiri = 19°13'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## APRIL 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 40 15 | 11♈58'58 | 29♏50 | 0♉33 | 12♉30 | 14°R49 | 9♉40 | 11♒19 | 0♓36 | 26♑24 | 27♊42 | 29°D48 | 1♊27 | 24♊27 | 2♓58 | S 1 |
| M 2 | 12 44 12 | 12°57'57 | 14♐ 9 | 1°51 | 13°42 | 14♏41 | 9°54 | 11°24 | 0°39 | 26°25 | 27°42 | 29♉48 | 1°23 | 24°33 | 3° 1 | M 2 |
| T 3 | 12 48 8 | 13°56'53 | 28°24 | 3° 4 | 14°55 | 14°32 | 10° 7 | 11°28 | 0°42 | 26°26 | 27°43 | 29°49 | 1°20 | 24°40 | 3° 5 | T 3 |
| W 4 | 12 52 5 | 14°55'48 | 12♑34 | 4°11 | 16° 7 | 14°23 | 10°21 | 11°33 | 0°45 | 26°27 | 27°43 | 29°R50 | 1°17 | 24°47 | 3° 8 | W 4 |
| T 5 | 12 56 1 | 15°54'41 | 26°38 | 5°12 | 17°19 | 14°13 | 10°34 | 11°37 | 0°47 | 26°28 | 27°44 | 29°50 | 1°14 | 24°53 | 3°11 | T 5 |
| F 6 | 12 59 58 | 16°53'33 | 10♒33 | 6° 7 | 18°32 | 14° 2 | 10°48 | 11°41 | 0°50 | 26°28 | 27°44 | 29°47 | 1°11 | 25° 0 | 3°14 | F 6 |
| S 7 | 13 3 54 | 17°52'22 | 24°19 | 6°56 | 19°44 | 13°50 | 11° 2 | 11°46 | 0°53 | 26°29 | 27°45 | 29°43 | 1° 8 | 25° 7 | 3°18 | S 7 |
| S 8 | 13 7 51 | 18°51'10 | 7♓54 | 7°39 | 20°56 | 13°37 | 11°15 | 11°50 | 0°55 | 26°30 | 27°46 | 29°38 | 1° 4 | 25°13 | 3°21 | S 8 |
| M 9 | 13 11 47 | 19°49'56 | 21°18 | 8°16 | 22° 8 | 13°24 | 11°29 | 11°54 | 0°58 | 26°30 | 27°46 | 29°31 | 1° 1 | 25°20 | 3°24 | M 9 |
| T 10 | 13 15 44 | 20°48'40 | 4♈28 | 8°46 | 23°20 | 13°10 | 11°43 | 11°58 | 1° 0 | 26°31 | 27°47 | 29°24 | 0°58 | 25°27 | 3°27 | T 10 |
| W11 | 13 19 41 | 21°47'23 | 17°24 | 9°11 | 24°32 | 12°55 | 11°57 | 12° 2 | 1° 3 | 26°32 | 27°48 | 29°18 | 0°55 | 25°33 | 3°30 | W11 |
| T 12 | 13 23 37 | 22°46'03 | 0♉ 5 | 9°29 | 25°44 | 12°40 | 12°10 | 12° 6 | 1° 5 | 26°32 | 27°48 | 29°13 | 0°52 | 25°40 | 3°33 | T 12 |
| F 13 | 13 27 34 | 23°44'41 | 12°31 | 9°40 | 26°56 | 12°24 | 12°24 | 12° 9 | 1° 8 | 26°33 | 27°49 | 29°10 | 0°49 | 25°47 | 3°36 | F 13 |
| S 14 | 13 31 30 | 24°43'18 | 24°44 | 9°R46 | 28° 8 | 12° 7 | 12°38 | 12°13 | 1°10 | 26°33 | 27°50 | 29°D 9 | 0°45 | 25°53 | 3°39 | S 14 |
| S 15 | 13 35 27 | 25°41'52 | 6♊45 | 9°45 | 29°19 | 11°50 | 12°52 | 12°17 | 1°12 | 26°34 | 27°51 | 29° 9 | 0°42 | 26° 0 | 3°41 | S 15 |
| M16 | 13 39 23 | 26°40'24 | 18°39 | 9°39 | 0♊31 | 11°32 | 13° 6 | 12°20 | 1°15 | 26°34 | 27°51 | 29°10 | 0°39 | 26° 6 | 3°44 | M16 |
| T 17 | 13 43 20 | 27°38'55 | 0♋28 | 9°28 | 1°43 | 11°14 | 13°20 | 12°23 | 1°17 | 26°34 | 27°52 | 29°12 | 0°36 | 26°13 | 3°47 | T 17 |
| W18 | 13 47 16 | 28°37'23 | 12°17 | 9°11 | 2°54 | 10°55 | 13°34 | 12°27 | 1°19 | 26°35 | 27°53 | 29°14 | 0°33 | 26°20 | 3°50 | W18 |
| T 19 | 13 51 13 | 29°35'49 | 24°11 | 8°49 | 4° 5 | 10°36 | 13°48 | 12°30 | 1°21 | 26°35 | 27°54 | 29°R15 | 0°29 | 26°26 | 3°52 | T 19 |
| F 20 | 13 55 10 | 0♉34'12 | 6♌15 | 8°23 | 5°17 | 10°16 | 14° 2 | 12°33 | 1°23 | 26°35 | 27°55 | 29°15 | 0°26 | 26°33 | 3°55 | F 20 |
| S 21 | 13 59 6 | 1°32'34 | 18°34 | 7°54 | 6°28 | 9°56 | 14°16 | 12°36 | 1°26 | 26°36 | 27°56 | 29°13 | 0°23 | 26°40 | 3°58 | S 21 |
| S 22 | 14 3 3 | 2°30'54 | 1♍11 | 7°21 | 7°39 | 9°35 | 14°30 | 12°39 | 1°28 | 26°36 | 27°56 | 29°11 | 0°20 | 26°46 | 4° 0 | S 22 |
| M23 | 14 6 59 | 3°29'11 | 14°11 | 6°46 | 8°50 | 9°15 | 14°44 | 12°42 | 1°30 | 26°36 | 27°57 | 29° 8 | 0°17 | 26°53 | 4° 3 | M23 |
| T 24 | 14 10 56 | 4°27'26 | 27°35 | 6° 8 | 10° 1 | 8°53 | 14°58 | 12°45 | 1°32 | 26°36 | 27°58 | 29° 4 | 0°14 | 27° 0 | 4° 5 | T 24 |
| W25 | 14 14 52 | 5°25'40 | 11♎24 | 5°30 | 11°12 | 8°32 | 15°12 | 12°48 | 1°34 | 26°36 | 27°59 | 29° 1 | 0°10 | 27° 6 | 4° 7 | W25 |
| T 26 | 14 18 49 | 6°23'51 | 25°34 | 4°51 | 12°23 | 8°10 | 15°26 | 12°50 | 1°36 | 26°36 | 28° 0 | 28°58 | 0° 7 | 27°13 | 4°10 | T 26 |
| F 27 | 14 22 45 | 7°22'01 | 10♏ 3 | 4°12 | 13°33 | 7°48 | 15°41 | 12°53 | 1°37 | 26°36 | 28° 1 | 28°56 | 0° 4 | 27°20 | 4°12 | F 27 |
| S 28 | 14 26 42 | 8°20'09 | 24°43 | 3°34 | 14°44 | 7°27 | 15°55 | 12°55 | 1°39 | 26°R36 | 28° 2 | 28°D55 | 0° 1 | 27°26 | 4°14 | S 28 |
| S 29 | 14 30 39 | 9°18'15 | 9♐29 | 2°58 | 15°55 | 7° 5 | 16° 9 | 12°58 | 1°41 | 26°36 | 28° 3 | 28°55 | 29♉58 | 27°33 | 4°17 | S 29 |
| M30 | 14 34 35 | 10♉16'21 | 24♐12 | 2♉24 | 17♊ 5 | 6♏42 | 16♉23 | 13♒ 0 | 1♓43 | 26♑36 | 28♊ 4 | 28♉56 | 29♉55 | 27♊40 | 4♓19 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n45 | 20s 9 | 0s 0 | 13n43 | 2n10 | 16n 1 | 0n25 | 14s42 | 1n41 | 13n54 | 0s53 | 18s 2 | 0s38 | 11s57 | 0s43 | 20s30 | 0n25 | 18n22 | 5s 6 | 20n 9 | 20n29 | 25n23 | 5s16 | 5n32 |
| M 2 | 5 8 | 23 49 | 1 17 | 14 19 | 2 20 | 16 26 | 0 28 | 14 41 | 1 40 | 13 58 | 0 53 | 18 1 | 0 39 | 11 56 | 0 43 | 20 30 | 0 25 | 18 23 | 5 5 | 20 9 | 20 29 | 25 24 | 5 15 | 5 32 |
| T 3 | 5 31 | 25 57 | 2 28 | 14 53 | 2 28 | 16 51 | 0 31 | 14 40 | 1 39 | 14 2 | 0 53 | 17 59 | 0 39 | 11 55 | 0 43 | 20 30 | 0 25 | 18 23 | 5 5 | 20 9 | 20 28 | 25 25 | 5 14 | 5 32 |
| W 4 | 5 54 | 26 23 | 3 30 | 15 23 | 2 36 | 17 15 | 0 35 | 14 38 | 1 37 | 14 7 | 0 53 | 17 58 | 0 39 | 11 54 | 0 43 | 20 29 | 0 25 | 18 23 | 5 5 | 20 9 | 20 27 | 25 26 | 5 12 | 5 32 |
| T 5 | 6 16 | 25 6 | 4 19 | 15 50 | 2 43 | 17 38 | 0 38 | 14 36 | 1 36 | 14 11 | 0 53 | 17 57 | 0 39 | 11 54 | 0 44 | 20 29 | 0 25 | 18 23 | 5 5 | 20 9 | 20 27 | 25 27 | 5 11 | 5 33 |
| F 6 | 6 39 | 22 19 | 4 52 | 16 14 | 2 49 | 18 1 | 0 41 | 14 35 | 1 34 | 14 16 | 0 53 | 17 56 | 0 39 | 11 53 | 0 44 | 20 29 | 0 25 | 18 23 | 5 5 | 20 9 | 20 26 | 25 28 | 5 10 | 5 33 |
| S 7 | 7 1 | 18 17 | 5 8 | 16 35 | 2 54 | 18 24 | 0 44 | 14 33 | 1 33 | 14 20 | 0 53 | 17 55 | 0 39 | 11 52 | 0 44 | 20 29 | 0 25 | 18 23 | 5 5 | 20 8 | 20 25 | 25 29 | 5 8 | 5 33 |
| S 8 | 7 24 | 13 21 | 5 6 | 16 53 | 2 58 | 18 46 | 0 47 | 14 30 | 1 31 | 14 24 | 0 52 | 17 54 | 0 39 | 11 51 | 0 44 | 20 29 | 0 25 | 18 24 | 5 4 | 20 6 | 20 25 | 25 30 | 5 7 | 5 33 |
| M 9 | 7 46 | 7 51 | 4 48 | 17 8 | 3 1 | 19 8 | 0 50 | 14 28 | 1 30 | 14 29 | 0 52 | 17 53 | 0 39 | 11 50 | 0 44 | 20 29 | 0 25 | 18 24 | 5 4 | 20 5 | 20 24 | 25 31 | 5 6 | 5 33 |
| T 10 | 8 8 | 2 6 | 4 14 | 17 19 | 3 2 | 19 29 | 0 53 | 14 25 | 1 28 | 14 33 | 0 52 | 17 52 | 0 40 | 11 49 | 0 44 | 20 29 | 0 25 | 18 24 | 5 4 | 20 4 | 20 23 | 25 32 | 5 5 | 5 33 |
| W11 | 8 30 | 3n39 | 3 28 | 17 28 | 3 3 | 19 50 | 0 56 | 14 23 | 1 26 | 14 37 | 0 52 | 17 51 | 0 40 | 11 48 | 0 44 | 20 29 | 0 25 | 18 24 | 5 4 | 20 2 | 20 23 | 25 33 | 5 3 | 5 34 |
| T 12 | 8 52 | 9 9 | 2 32 | 17 33 | 3 2 | 20 11 | 0 59 | 14 20 | 1 24 | 14 42 | 0 52 | 17 50 | 0 40 | 11 47 | 0 44 | 20 28 | 0 25 | 18 24 | 5 4 | 20 1 | 20 22 | 25 34 | 5 2 | 5 34 |
| F 13 | 9 14 | 14 12 | 1 30 | 17 34 | 2 59 | 20 30 | 1 1 | 14 17 | 1 23 | 14 46 | 0 52 | 17 49 | 0 40 | 11 47 | 0 44 | 20 28 | 0 25 | 18 24 | 5 4 | 20 1 | 20 21 | 25 35 | 5 1 | 5 34 |
| S 14 | 9 36 | 18 36 | 0 24 | 17 33 | 2 56 | 20 50 | 1 4 | 14 13 | 1 21 | 14 50 | 0 52 | 17 48 | 0 40 | 11 46 | 0 44 | 20 28 | 0 25 | 18 25 | 5 3 | 20 0 | 20 21 | 25 37 | 5 0 | 5 34 |
| S 15 | 9 57 | 22 10 | 0n42 | 17 28 | 2 51 | 21 8 | 1 7 | 14 10 | 1 19 | 14 55 | 0 52 | 17 48 | 0 40 | 11 45 | 0 44 | 20 28 | 0 25 | 18 25 | 5 3 | 20 0 | 20 20 | 25 38 | 4 58 | 5 34 |
| M16 | 10 18 | 24 44 | 1 45 | 17 20 | 2 45 | 21 26 | 1 10 | 14 6 | 1 17 | 14 59 | 0 51 | 17 47 | 0 40 | 11 44 | 0 44 | 20 28 | 0 25 | 18 25 | 5 3 | 20 1 | 20 19 | 25 39 | 4 57 | 5 35 |
| T 17 | 10 39 | 26 12 | 2 43 | 17 9 | 2 37 | 21 44 | 1 13 | 14 3 | 1 15 | 15 3 | 0 51 | 17 46 | 0 41 | 11 43 | 0 44 | 20 28 | 0 25 | 18 25 | 5 3 | 20 1 | 20 19 | 25 40 | 4 56 | 5 35 |
| W18 | 11 0 | 26 29 | 3 35 | 16 55 | 2 28 | 22 1 | 1 16 | 13 59 | 1 13 | 15 7 | 0 51 | 17 45 | 0 41 | 11 43 | 0 44 | 20 28 | 0 25 | 18 25 | 5 3 | 20 1 | 20 18 | 25 41 | 4 55 | 5 35 |
| T 19 | 11 21 | 25 32 | 4 17 | 16 38 | 2 17 | 22 18 | 1 19 | 13 55 | 1 10 | 15 12 | 0 51 | 17 44 | 0 41 | 11 42 | 0 44 | 20 28 | 0 25 | 18 25 | 5 3 | 20 2 | 20 17 | 25 41 | 4 54 | 5 35 |
| F 20 | 11 42 | 23 24 | 4 49 | 16 19 | 2 6 | 22 33 | 1 21 | 13 51 | 1 8 | 15 16 | 0 51 | 17 44 | 0 41 | 11 41 | 0 44 | 20 28 | 0 25 | 18 26 | 5 3 | 20 2 | 20 17 | 25 42 | 4 53 | 5 35 |
| S 21 | 12 2 | 20 10 | 5 9 | 15 57 | 1 53 | 22 49 | 1 24 | 13 47 | 1 6 | 15 20 | 0 51 | 17 43 | 0 41 | 11 40 | 0 44 | 20 28 | 0 25 | 18 26 | 5 2 | 20 1 | 20 16 | 25 43 | 4 51 | 5 36 |
| S 22 | 12 22 | 15 57 | 5 14 | 15 33 | 1 39 | 23 3 | 1 27 | 13 42 | 1 4 | 15 25 | 0 51 | 17 42 | 0 41 | 11 40 | 0 44 | 20 28 | 0 25 | 18 26 | 5 2 | 20 1 | 20 15 | 25 44 | 4 50 | 5 36 |
| M23 | 12 42 | 10 54 | 5 3 | 15 7 | 1 24 | 23 17 | 1 30 | 13 38 | 1 1 | 15 29 | 0 51 | 17 41 | 0 41 | 11 39 | 0 44 | 20 28 | 0 25 | 18 26 | 5 2 | 20 0 | 20 15 | 25 45 | 4 49 | 5 36 |
| T 24 | 13 2 | 5 11 | 4 36 | 14 40 | 1 8 | 23 31 | 1 32 | 13 34 | 0 59 | 15 33 | 0 51 | 17 41 | 0 42 | 11 38 | 0 44 | 20 28 | 0 25 | 18 26 | 5 2 | 19 59 | 20 14 | 25 46 | 4 48 | 5 36 |
| W25 | 13 21 | 0s57 | 3 52 | 14 12 | 0 52 | 23 44 | 1 35 | 13 29 | 0 56 | 15 37 | 0 51 | 17 40 | 0 42 | 11 38 | 0 44 | 20 28 | 0 25 | 18 26 | 5 2 | 19 59 | 20 13 | 25 47 | 4 47 | 5 37 |
| T 26 | 13 41 | 7 13 | 2 54 | 13 43 | 0 35 | 23 56 | 1 37 | 13 24 | 0 54 | 15 41 | 0 51 | 17 40 | 0 42 | 11 37 | 0 44 | 20 28 | 0 25 | 18 27 | 5 2 | 19 58 | 20 13 | 25 48 | 4 46 | 5 37 |
| F 27 | 14 0 | 13 14 | 1 42 | 13 14 | 0 18 | 24 7 | 1 40 | 13 20 | 0 51 | 15 46 | 0 50 | 17 39 | 0 42 | 11 36 | 0 44 | 20 28 | 0 25 | 18 27 | 5 1 | 19 57 | 20 12 | 25 49 | 4 45 | 5 37 |
| S 28 | 14 19 | 18 37 | 0 23 | 12 45 | 0 1 | 24 18 | 1 42 | 13 15 | 0 49 | 15 50 | 0 50 | 17 38 | 0 42 | 11 36 | 0 44 | 20 28 | 0 25 | 18 27 | 5 1 | 19 57 | 20 11 | 25 50 | 4 44 | 5 37 |
| S 29 | 14 37 | 22 52 | 0s58 | 12 16 | 0s16 | 24 28 | 1 45 | 13 10 | 0 46 | 15 54 | 0 50 | 17 38 | 0 42 | 11 35 | 0 44 | 20 28 | 0 25 | 18 27 | 5 1 | 19 57 | 20 11 | 25 51 | 4 43 | 5 38 |
| M30 | 14n56 | 25s36 | 2s15 | 11n48 | 0s33 | 24n38 | 1n47 | 13s 6 | 0n44 | 15n58 | 0s50 | 17s37 | 0s42 | 11s34 | 0s44 | 20s28 | 0n25 | 18n27 | 5s 1 | 19n58 | 20n10 | 25n52 | 4s42 | 5n38 |

Julian Day Number = 2330375.5, Delta T = 30.87 sec
Ecliptic obliquity = 23°29'02, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'35, Lahiri = 19°13'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## MAY 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 38 32 | 11♉14'24 | 8♋49 | 1°R52 | 18♊15 | 6°R20 | 16♉37 | 13♒ 2 | 1♓45 | 26°R36 | 28♊ 5 | 28♉57 | 29♉51 | 27♊46 | 4♓21 | T 1 |
| W 2 | 14 42 28 | 12°12'26 | 23°13 | 1♉24 | 19°26 | 5♏58 | 16°51 | 13° 4 | 1°46 | 26♋36 | 28° 6 | 28°58 | 29°48 | 27°53 | 4°23 | W 2 |
| T 3 | 14 46 25 | 13°10'27 | 7♒22 | 0°59 | 20°36 | 5°36 | 17° 6 | 13° 6 | 1°48 | 26°36 | 28° 7 | 28°R59 | 29°45 | 28° 0 | 4°25 | T 3 |
| F 4 | 14 50 21 | 14° 8'27 | 21°15 | 0°38 | 21°46 | 5°15 | 17°20 | 13° 8 | 1°49 | 26°36 | 28° 8 | 28°59 | 29°42 | 28° 6 | 4°27 | F 4 |
| S 5 | 14 54 18 | 15° 6'25 | 4♓50 | 0°22 | 22°56 | 4°53 | 17°34 | 13°10 | 1°51 | 26°36 | 28°10 | 28°58 | 29°39 | 28°13 | 4°29 | S 5 |
| S 6 | 14 58 14 | 16° 4'22 | 18° 9 | 0° 9 | 24° 6 | 4°32 | 17°48 | 13°11 | 1°52 | 26°35 | 28°11 | 28°57 | 29°35 | 28°20 | 4°31 | S 6 |
| M 7 | 15 2 11 | 17° 2'17 | 1♈11 | 0° 1 | 25°16 | 4°10 | 18° 2 | 13°13 | 1°54 | 26°35 | 28°12 | 28°56 | 29°32 | 28°26 | 4°32 | M 7 |
| T 8 | 15 6 8 | 18° 0'11 | 14° 0 | 29°D58 | 26°25 | 3°50 | 18°17 | 13°15 | 1°55 | 26°35 | 28°13 | 28°54 | 29°29 | 28°33 | 4°34 | T 8 |
| W 9 | 15 10 4 | 18°58'04 | 26°34 | 29♈59 | 27°35 | 3°29 | 18°31 | 13°16 | 1°57 | 26°34 | 28°14 | 28°53 | 29°26 | 28°40 | 4°36 | W 9 |
| T 10 | 15 14 1 | 19°55'55 | 8♉57 | 0♉ 5 | 28°44 | 3° 9 | 18°45 | 13°17 | 1°58 | 26°34 | 28°15 | 28°52 | 29°23 | 28°46 | 4°38 | T 10 |
| F 11 | 15 17 57 | 20°53'45 | 21° 9 | 0°16 | 29°54 | 2°49 | 18°59 | 13°18 | 1°59 | 26°34 | 28°17 | 28°51 | 29°20 | 28°53 | 4°39 | F 11 |
| S 12 | 15 21 54 | 21°51'34 | 3♊11 | 0°31 | 1♋ 3 | 2°30 | 19°13 | 13°20 | 2° 0 | 26°33 | 28°18 | 28°D51 | 29°16 | 29° 0 | 4°41 | S 12 |
| S 13 | 15 25 50 | 22°49'21 | 15° 7 | 0°50 | 2°12 | 2°12 | 19°27 | 13°21 | 2° 2 | 26°33 | 28°19 | 28°51 | 29°13 | 29° 6 | 4°42 | S 13 |
| M14 | 15 29 47 | 23°47'07 | 26°57 | 1°14 | 3°21 | 1°54 | 19°42 | 13°22 | 2° 3 | 26°32 | 28°20 | 28°52 | 29°10 | 29°13 | 4°44 | M14 |
| T 15 | 15 33 43 | 24°44'51 | 8♋46 | 1°42 | 4°30 | 1°36 | 19°56 | 13°22 | 2° 4 | 26°32 | 28°21 | 28°52 | 29° 7 | 29°20 | 4°45 | T 15 |
| W16 | 15 37 40 | 25°42'34 | 20°35 | 2°14 | 5°39 | 1°19 | 20°10 | 13°23 | 2° 5 | 26°31 | 28°23 | 28°53 | 29° 4 | 29°26 | 4°46 | W16 |
| T 17 | 15 41 37 | 26°40'15 | 2♌30 | 2°51 | 6°47 | 1° 3 | 20°24 | 13°24 | 2° 6 | 26°31 | 28°24 | 28°53 | 29° 1 | 29°33 | 4°47 | T 17 |
| F 18 | 15 45 33 | 27°37'55 | 14°33 | 3°31 | 7°56 | 0°48 | 20°38 | 13°24 | 2° 7 | 26°30 | 28°25 | 28°53 | 28°57 | 29°40 | 4°49 | F 18 |
| S 19 | 15 49 30 | 28°35'33 | 26°50 | 4°15 | 9° 4 | 0°33 | 20°52 | 13°25 | 2° 8 | 26°29 | 28°27 | 28°53 | 28°54 | 29°46 | 4°50 | S 19 |
| S 20 | 15 53 26 | 29°33'09 | 9♍25 | 5° 2 | 10°13 | 0°18 | 21° 6 | 13°25 | 2° 8 | 26°29 | 28°28 | 28°53 | 28°51 | 29°53 | 4°51 | S 20 |
| M21 | 15 57 23 | 0♊30'44 | 22°21 | 5°53 | 11°21 | 0° 5 | 21°21 | 13°25 | 2° 9 | 26°28 | 28°29 | 28°53 | 28°48 | 29°59 | 4°52 | M21 |
| T 22 | 16 1 19 | 1°28'18 | 5♎42 | 6°48 | 12°29 | 29♎52 | 21°35 | 13°25 | 2°10 | 26°27 | 28°30 | 28°54 | 28°45 | 0♋ 6 | 4°53 | T 22 |
| W23 | 16 5 16 | 2°25'50 | 19°29 | 7°46 | 13°37 | 29°40 | 21°49 | 13°R25 | 2°11 | 26°26 | 28°32 | 28°54 | 28°41 | 0°13 | 4°54 | W23 |
| T 24 | 16 9 12 | 3°23'21 | 3♏42 | 8°47 | 14°44 | 29°29 | 22° 3 | 13°25 | 2°11 | 26°26 | 28°33 | 28°54 | 28°38 | 0°20 | 4°55 | T 24 |
| F 25 | 16 13 9 | 4°20'50 | 18°19 | 9°51 | 15°52 | 29°19 | 22°17 | 13°25 | 2°12 | 26°25 | 28°34 | 28°54 | 28°35 | 0°26 | 4°55 | F 25 |
| S 26 | 16 17 6 | 5°18'19 | 3♐13 | 10°59 | 16°59 | 29° 9 | 22°31 | 13°25 | 2°12 | 26°24 | 28°36 | 28°R55 | 28°32 | 0°33 | 4°56 | S 26 |
| S 27 | 16 21 2 | 6°15'46 | 18°17 | 12° 9 | 18° 7 | 29° 1 | 22°45 | 13°25 | 2°13 | 26°23 | 28°37 | 28°54 | 28°29 | 0°40 | 4°57 | S 27 |
| M28 | 16 24 59 | 7°13'13 | 3♑23 | 13°23 | 19°14 | 28°53 | 22°59 | 13°24 | 2°13 | 26°22 | 28°39 | 28°54 | 28°26 | 0°46 | 4°58 | M28 |
| T 29 | 16 28 55 | 8°10'39 | 18°21 | 14°39 | 20°21 | 28°46 | 23°13 | 13°24 | 2°14 | 26°21 | 28°40 | 28°53 | 28°22 | 0°53 | 4°58 | T 29 |
| W30 | 16 32 52 | 9° 8'04 | 3♒ 4 | 15°58 | 21°27 | 28°39 | 23°26 | 13°23 | 2°14 | 26°20 | 28°41 | 28°52 | 28°19 | 1° 0 | 4°59 | W30 |
| T 31 | 16 36 48 | 10♊ 5'28 | 17♒27 | 17♉20 | 22♋34 | 28♎34 | 23♉40 | 13♒22 | 2♓14 | 26♋19 | 28♊43 | 28♉51 | 28♉16 | 1♋ 6 | 4♓59 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n14 | 26s34 | 3s23 | 11n22 | 0s50 | 24n46 | 1n49 | 13s 1 | 0n41 | 16n 2 | 0s50 | 17s37 | 0s43 | 11s34 | 0s44 | 20s28 | 0n25 | 18n27 | 5s 1 | 19n58 | 20n 9 | 25n53 | 4s41 | 5n38 |
| W 2 | 15 32 | 25 42 | 4 17 | 10 57 | 1 6 | 24 55 | 1 51 | 12 56 | 0 38 | 16 6 | 0 50 | 17 36 | 0 43 | 11 33 | 0 44 | 20 28 | 0 25 | 18 27 | 5 1 | 19 58 | 20 9 | 25 54 | 4 40 | 5 38 |
| T 3 | 15 49 | 23 12 | 4 54 | 10 33 | 1 22 | 25 2 | 1 53 | 12 51 | 0 35 | 16 10 | 0 50 | 17 36 | 0 43 | 11 33 | 0 44 | 20 28 | 0 25 | 18 28 | 5 1 | 19 58 | 20 8 | 25 55 | 4 39 | 5 39 |
| F 4 | 16 7 | 19 23 | 5 13 | 10 12 | 1 37 | 25 9 | 1 56 | 12 47 | 0 33 | 16 14 | 0 50 | 17 36 | 0 43 | 11 32 | 0 44 | 20 28 | 0 25 | 18 28 | 5 1 | 19 58 | 20 7 | 25 55 | 4 38 | 5 39 |
| S 5 | 16 24 | 14 38 | 5 15 | 9 53 | 1 51 | 25 15 | 1 58 | 12 42 | 0 30 | 16 18 | 0 50 | 17 35 | 0 43 | 11 32 | 0 44 | 20 28 | 0 25 | 18 28 | 5 0 | 19 58 | 20 7 | 25 56 | 4 37 | 5 39 |
| S 6 | 16 41 | 9 17 | 4 59 | 9 36 | 2 5 | 25 20 | 2 0 | 12 38 | 0 27 | 16 23 | 0 50 | 17 35 | 0 43 | 11 31 | 0 45 | 20 28 | 0 25 | 18 28 | 5 0 | 19 58 | 20 6 | 25 57 | 4 36 | 5 39 |
| M 7 | 16 57 | 3 37 | 4 28 | 9 22 | 2 17 | 25 25 | 2 1 | 12 33 | 0 25 | 16 27 | 0 50 | 17 35 | 0 43 | 11 31 | 0 45 | 20 28 | 0 25 | 18 28 | 5 0 | 19 57 | 20 5 | 25 58 | 4 35 | 5 40 |
| T 8 | 17 14 | 2n 6 | 3 44 | 9 10 | 2 29 | 25 29 | 2 3 | 12 29 | 0 22 | 16 31 | 0 50 | 17 34 | 0 44 | 11 30 | 0 45 | 20 28 | 0 25 | 18 28 | 5 0 | 19 57 | 20 5 | 25 59 | 4 34 | 5 40 |
| W 9 | 17 30 | 7 38 | 2 50 | 9 0 | 2 39 | 25 33 | 2 5 | 12 24 | 0 19 | 16 35 | 0 49 | 17 34 | 0 44 | 11 30 | 0 45 | 20 28 | 0 25 | 18 28 | 5 0 | 19 57 | 20 4 | 26 0 | 4 34 | 5 40 |
| T 10 | 17 45 | 12 48 | 1 48 | 8 53 | 2 49 | 25 35 | 2 7 | 12 20 | 0 16 | 16 38 | 0 49 | 17 34 | 0 44 | 11 29 | 0 45 | 20 28 | 0 25 | 18 29 | 5 0 | 19 57 | 20 3 | 26 1 | 4 33 | 5 40 |
| F 11 | 18 1 | 17 24 | 0 43 | 8 49 | 2 57 | 25 37 | 2 8 | 12 16 | 0 13 | 16 42 | 0 49 | 17 34 | 0 44 | 11 29 | 0 45 | 20 28 | 0 25 | 18 29 | 5 0 | 19 56 | 20 3 | 26 1 | 4 32 | 5 41 |
| S 12 | 18 16 | 21 14 | 0n24 | 8 47 | 3 5 | 25 39 | 2 10 | 12 12 | 0 11 | 16 46 | 0 49 | 17 33 | 0 44 | 11 29 | 0 45 | 20 28 | 0 25 | 18 29 | 5 0 | 19 56 | 20 2 | 26 2 | 4 31 | 5 41 |
| S 13 | 18 31 | 24 8 | 1 29 | 8 48 | 3 12 | 25 39 | 2 11 | 12 8 | 0 8 | 16 50 | 0 49 | 17 33 | 0 44 | 11 28 | 0 45 | 20 28 | 0 25 | 18 29 | 4 59 | 19 56 | 20 1 | 26 3 | 4 30 | 5 41 |
| M14 | 18 45 | 25 57 | 2 30 | 8 51 | 3 17 | 25 39 | 2 13 | 12 4 | 0 5 | 16 54 | 0 49 | 17 33 | 0 45 | 11 28 | 0 45 | 20 28 | 0 25 | 18 29 | 4 59 | 19 57 | 20 1 | 26 4 | 4 29 | 5 42 |
| T 15 | 18 59 | 26 35 | 3 24 | 8 56 | 3 22 | 25 38 | 2 14 | 12 1 | 0 2 | 16 58 | 0 49 | 17 33 | 0 45 | 11 27 | 0 45 | 20 28 | 0 25 | 18 29 | 4 59 | 19 57 | 20 0 | 26 5 | 4 29 | 5 42 |
| W16 | 19 13 | 26 1 | 4 9 | 9 3 | 3 26 | 25 37 | 2 15 | 11 58 | 0s 0 | 17 2 | 0 49 | 17 33 | 0 45 | 11 27 | 0 45 | 20 29 | 0 25 | 18 29 | 4 59 | 19 57 | 19 59 | 26 5 | 4 28 | 5 42 |
| T 17 | 19 27 | 24 15 | 4 45 | 9 13 | 3 29 | 25 34 | 2 16 | 11 54 | 0 3 | 17 6 | 0 49 | 17 33 | 0 45 | 11 27 | 0 45 | 20 29 | 0 25 | 18 29 | 4 59 | 19 57 | 19 58 | 26 6 | 4 27 | 5 42 |
| F 18 | 19 40 | 21 24 | 5 8 | 9 25 | 3 31 | 25 32 | 2 17 | 11 52 | 0 6 | 17 9 | 0 49 | 17 33 | 0 45 | 11 27 | 0 45 | 20 29 | 0 25 | 18 30 | 4 59 | 19 57 | 19 58 | 26 7 | 4 27 | 5 43 |
| S 19 | 19 53 | 17 33 | 5 17 | 9 38 | 3 32 | 25 28 | 2 18 | 11 49 | 0 8 | 17 13 | 0 49 | 17 33 | 0 45 | 11 26 | 0 45 | 20 29 | 0 25 | 18 30 | 4 59 | 19 57 | 19 57 | 26 8 | 4 26 | 5 43 |
| S 20 | 20 6 | 12 52 | 5 12 | 9 54 | 3 32 | 25 24 | 2 19 | 11 46 | 0 11 | 17 17 | 0 49 | 17 33 | 0 45 | 11 26 | 0 45 | 20 29 | 0 25 | 18 30 | 4 59 | 19 57 | 19 56 | 26 8 | 4 25 | 5 43 |
| M21 | 20 18 | 7 30 | 4 51 | 10 11 | 3 31 | 25 19 | 2 20 | 11 44 | 0 14 | 17 21 | 0 49 | 17 33 | 0 46 | 11 26 | 0 45 | 20 29 | 0 25 | 18 30 | 4 59 | 19 57 | 19 56 | 26 9 | 4 25 | 5 44 |
| T 22 | 20 30 | 1 38 | 4 14 | 10 30 | 3 30 | 25 13 | 2 20 | 11 42 | 0 16 | 17 24 | 0 49 | 17 33 | 0 46 | 11 25 | 0 45 | 20 29 | 0 25 | 18 30 | 4 58 | 19 57 | 19 55 | 26 10 | 4 24 | 5 44 |
| W23 | 20 41 | 4s31 | 3 22 | 10 50 | 3 28 | 25 7 | 2 21 | 11 40 | 0 19 | 17 28 | 0 49 | 17 33 | 0 46 | 11 25 | 0 45 | 20 29 | 0 25 | 18 30 | 4 58 | 19 57 | 19 54 | 26 11 | 4 23 | 5 44 |
| T 24 | 20 52 | 10 39 | 2 15 | 11 12 | 3 26 | 25 0 | 2 21 | 11 39 | 0 21 | 17 32 | 0 49 | 17 34 | 0 46 | 11 25 | 0 45 | 20 30 | 0 25 | 18 30 | 4 58 | 19 57 | 19 54 | 26 11 | 4 23 | 5 45 |
| F 25 | 21 3 | 16 23 | 0 59 | 11 36 | 3 22 | 24 53 | 2 21 | 11 37 | 0 24 | 17 35 | 0 49 | 17 34 | 0 46 | 11 25 | 0 45 | 20 30 | 0 25 | 18 30 | 4 58 | 19 57 | 19 53 | 26 12 | 4 22 | 5 45 |
| S 26 | 21 14 | 21 14 | 0s24 | 12 1 | 3 18 | 24 45 | 2 22 | 11 36 | 0 26 | 17 39 | 0 49 | 17 34 | 0 46 | 11 25 | 0 45 | 20 30 | 0 25 | 18 31 | 4 58 | 19 57 | 19 52 | 26 13 | 4 22 | 5 45 |
| S 27 | 21 24 | 24 43 | 1 46 | 12 27 | 3 13 | 24 36 | 2 22 | 11 35 | 0 28 | 17 43 | 0 48 | 17 34 | 0 47 | 11 25 | 0 45 | 20 30 | 0 25 | 18 31 | 4 58 | 19 57 | 19 51 | 26 14 | 4 21 | 5 45 |
| M28 | 21 33 | 26 26 | 3 0 | 12 54 | 3 8 | 24 26 | 2 22 | 11 35 | 0 31 | 17 46 | 0 48 | 17 34 | 0 47 | 11 24 | 0 45 | 20 30 | 0 25 | 18 31 | 4 58 | 19 57 | 19 51 | 26 14 | 4 21 | 5 46 |
| T 29 | 21 43 | 26 12 | 4 1 | 13 22 | 3 2 | 24 16 | 2 22 | 11 34 | 0 33 | 17 50 | 0 48 | 17 35 | 0 47 | 11 24 | 0 45 | 20 30 | 0 25 | 18 31 | 4 58 | 19 57 | 19 50 | 26 15 | 4 20 | 5 46 |
| W30 | 21 52 | 24 8 | 4 45 | 13 51 | 2 55 | 24 6 | 2 22 | 11 34 | 0 36 | 17 53 | 0 48 | 17 35 | 0 47 | 11 24 | 0 45 | 20 31 | 0 25 | 18 31 | 4 58 | 19 57 | 19 49 | 26 16 | 4 20 | 5 46 |
| T 31 | 22n 0 | 20s33 | 5s11 | 14n21 | 2s48 | 23n55 | 2n21 | 11s34 | 0s38 | 17n57 | 0s48 | 17s35 | 0s47 | 11s24 | 0s46 | 20s31 | 0n25 | 18n31 | 4s58 | 19n56 | 19n49 | 26n16 | 4s19 | 5n47 |

Julian Day Number = 2330405.5, Delta T = 30.82 sec
Ecliptic obliquity = 23°29'01, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'39, Lahiri = 19°13'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## JUNE 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 40 45 | 11♊ 2'52 | 1♓26 | 18♉46 | 23♋40 | 28°R29 | 23♉54 | 13°R21 | 2♓15 | 26°R18 | 28♊44 | 28°R50 | 28♉13 | 1♋13 | 5♓ 0 | F 1 |
| S 2 | 16 44 41 | 12° 0'15 | 15° 1 | 20°13 | 24°47 | 28♎25 | 24° 8 | 13♒21 | 2°15 | 26♑17 | 28°45 | 28°D50 | 28°10 | 1°20 | 5° 0 | S 2 |
| S 3 | 16 48 38 | 12°57'37 | 28°13 | 21°44 | 25°53 | 28°22 | 24°22 | 13°19 | 2°15 | 26°16 | 28°47 | 28♉50 | 28° 7 | 1°26 | 5° 0 | S 3 |
| M 4 | 16 52 35 | 13°54'59 | 11♈ 5 | 23°17 | 26°59 | 28°20 | 24°35 | 13°18 | 2°15 | 26°15 | 28°48 | 28°51 | 28° 3 | 1°33 | 5° 0 | M 4 |
| T 5 | 16 56 31 | 14°52'20 | 23°39 | 24°54 | 28° 4 | 28°18 | 24°49 | 13°17 | 2°15 | 26°14 | 28°50 | 28°52 | 28° 0 | 1°40 | 5° 1 | T 5 |
| W 6 | 17 0 28 | 15°49'41 | 5♉58 | 26°32 | 29°10 | 28°D18 | 25° 3 | 13°16 | 2°R15 | 26°13 | 28°51 | 28°54 | 27°57 | 1°46 | 5° 1 | W 6 |
| T 7 | 17 4 24 | 16°47'01 | 18° 6 | 28°14 | 0♌15 | 28°18 | 25°17 | 13°14 | 2°15 | 26°12 | 28°53 | 28°55 | 27°54 | 1°53 | 5°R 1 | T 7 |
| F 8 | 17 8 21 | 17°44'21 | 0♊ 6 | 29°58 | 1°20 | 28°19 | 25°30 | 13°13 | 2°15 | 26°11 | 28°54 | 28°R55 | 27°51 | 2° 0 | 5° 1 | F 8 |
| S 9 | 17 12 17 | 18°41'40 | 12° 0 | 1♊45 | 2°25 | 28°21 | 25°44 | 13°11 | 2°15 | 26°10 | 28°55 | 28°54 | 27°47 | 2° 6 | 5° 1 | S 9 |
| S 10 | 17 16 14 | 19°38'59 | 23°50 | 3°35 | 3°30 | 28°23 | 25°57 | 13°10 | 2°15 | 26° 8 | 28°57 | 28°53 | 27°44 | 2°13 | 5° 0 | S 10 |
| M11 | 17 20 11 | 20°36'17 | 5♋39 | 5°27 | 4°35 | 28°27 | 26°11 | 13° 8 | 2°15 | 26° 7 | 28°58 | 28°50 | 27°41 | 2°20 | 5° 0 | M11 |
| T 12 | 17 24 7 | 21°33'35 | 17°28 | 7°21 | 5°39 | 28°31 | 26°24 | 13° 6 | 2°14 | 26° 6 | 29° 0 | 28°47 | 27°38 | 2°26 | 5° 0 | T 12 |
| W13 | 17 28 4 | 22°30'51 | 29°20 | 9°18 | 6°43 | 28°36 | 26°38 | 13° 4 | 2°14 | 26° 5 | 29° 1 | 28°43 | 27°35 | 2°33 | 5° 0 | W13 |
| T 14 | 17 32 0 | 23°28'07 | 11♌18 | 11°18 | 7°47 | 28°41 | 26°51 | 13° 2 | 2°14 | 26° 3 | 29° 3 | 28°39 | 27°32 | 2°40 | 4°59 | T 14 |
| F 15 | 17 35 57 | 24°25'23 | 23°24 | 13°19 | 8°50 | 28°48 | 27° 4 | 13° 0 | 2°13 | 26° 2 | 29° 4 | 28°36 | 27°28 | 2°46 | 4°59 | F 15 |
| S 16 | 17 39 53 | 25°22'37 | 5♍41 | 15°22 | 9°54 | 28°55 | 27°18 | 12°58 | 2°13 | 26° 1 | 29° 6 | 28°33 | 27°25 | 2°53 | 4°58 | S 16 |
| S 17 | 17 43 50 | 26°19'51 | 18°14 | 17°28 | 10°57 | 29° 3 | 27°31 | 12°56 | 2°12 | 25°59 | 29° 7 | 28°32 | 27°22 | 3° 0 | 4°58 | S 17 |
| M18 | 17 47 46 | 27°17'05 | 1♎ 6 | 19°34 | 12° 0 | 29°11 | 27°44 | 12°53 | 2°12 | 25°58 | 29° 9 | 28°D32 | 27°19 | 3° 6 | 4°57 | M18 |
| T 19 | 17 51 43 | 28°14'17 | 14°20 | 21°43 | 13° 2 | 29°21 | 27°57 | 12°51 | 2°11 | 25°57 | 29°10 | 28°32 | 27°16 | 3°13 | 4°57 | T 19 |
| W20 | 17 55 40 | 29°11'29 | 27°59 | 23°52 | 14° 4 | 29°31 | 28°10 | 12°48 | 2°10 | 25°55 | 29°12 | 28°34 | 27°12 | 3°20 | 4°56 | W20 |
| T 21 | 17 59 36 | 0♋ 8'41 | 12♏ 5 | 26° 2 | 15° 6 | 29°41 | 28°23 | 12°46 | 2°10 | 25°54 | 29°13 | 28°35 | 27° 9 | 3°26 | 4°55 | T 21 |
| F 22 | 18 3 33 | 1° 5'52 | 26°36 | 28°13 | 16° 8 | 29°53 | 28°36 | 12°43 | 2° 9 | 25°52 | 29°14 | 28°R36 | 27° 6 | 3°33 | 4°54 | F 22 |
| S 23 | 18 7 29 | 2° 3'03 | 11♐30 | 0♋24 | 17° 9 | 0♏ 5 | 28°49 | 12°40 | 2° 8 | 25°51 | 29°16 | 28°35 | 27° 3 | 3°40 | 4°54 | S 23 |
| S 24 | 18 11 26 | 3° 0'14 | 26°38 | 2°35 | 18°10 | 0°17 | 29° 2 | 12°37 | 2° 7 | 25°49 | 29°17 | 28°33 | 27° 0 | 3°46 | 4°53 | S 24 |
| M25 | 18 15 22 | 3°57'24 | 11♑54 | 4°46 | 19°11 | 0°31 | 29°15 | 12°34 | 2° 6 | 25°48 | 29°19 | 28°30 | 26°57 | 3°53 | 4°52 | M25 |
| T 26 | 18 19 19 | 4°54'34 | 27° 6 | 6°56 | 20°11 | 0°44 | 29°28 | 12°31 | 2° 6 | 25°46 | 29°20 | 28°25 | 26°53 | 4° 0 | 4°51 | T 26 |
| W27 | 18 23 15 | 5°51'45 | 12♒ 3 | 9° 5 | 21°11 | 0°59 | 29°40 | 12°28 | 2° 5 | 25°45 | 29°22 | 28°20 | 26°50 | 4° 6 | 4°49 | W27 |
| T 28 | 18 27 12 | 6°48'55 | 26°40 | 11°14 | 22°11 | 1°14 | 29°53 | 12°25 | 2° 4 | 25°43 | 29°23 | 28°15 | 26°47 | 4°13 | 4°48 | T 28 |
| F 29 | 18 31 9 | 7°46'06 | 10♓49 | 13°21 | 23°10 | 1°30 | 0♊ 6 | 12°22 | 2° 3 | 25°42 | 29°25 | 28°10 | 26°44 | 4°20 | 4°47 | F 29 |
| S 30 | 18 35 5 | 8♋43'16 | 24♓30 | 15♋27 | 24♌ 9 | 1♏46 | 0♊18 | 12♒19 | 2♓ 1 | 25♑40 | 29♊26 | 28♉ 8 | 26♉41 | 4♋27 | 4♓46 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 22n 8 | 15s54 | 5s17 | 14n52 | 2s41 | 23n43 | 2n21 | 11s35 | 0s40 | 18n 0 | 0s48 | 17s36 | 0s47 | 11s24 | 0s46 | 20s31 | 0n25 | 18n31 | 4s57 | 19n56 | 19n48 | 26n17 | 4s19 | 5n47 |
| S 2 | 22 16 | 10 35 | 5 4 | 15 23 | 2 33 | 23 31 | 2 20 | 11 35 | 0 42 | 18 4 | 0 48 | 17 36 | 0 47 | 11 24 | 0 46 | 20 31 | 0 25 | 18 31 | 4 57 | 19 56 | 19 47 | 26 18 | 4 18 | 5 47 |
| S 3 | 22 24 | 4 56 | 4 36 | 15 55 | 2 24 | 23 18 | 2 20 | 11 36 | 0 44 | 18 7 | 0 48 | 17 37 | 0 48 | 11 24 | 0 46 | 20 31 | 0 25 | 18 31 | 4 57 | 19 56 | 19 47 | 26 18 | 4 18 | 5 47 |
| M 4 | 22 31 | 0n47 | 3 55 | 16 27 | 2 15 | 23 4 | 2 19 | 11 37 | 0 46 | 18 10 | 0 48 | 17 37 | 0 48 | 11 24 | 0 46 | 20 32 | 0 25 | 18 31 | 4 57 | 19 56 | 19 46 | 26 19 | 4 18 | 5 48 |
| T 5 | 22 37 | 6 22 | 3 3 | 17 0 | 2 6 | 22 50 | 2 18 | 11 39 | 0 49 | 18 14 | 0 48 | 17 38 | 0 48 | 11 24 | 0 46 | 20 32 | 0 25 | 18 32 | 4 57 | 19 57 | 19 45 | 26 20 | 4 17 | 5 48 |
| W 6 | 22 44 | 11 36 | 2 4 | 17 32 | 1 56 | 22 36 | 2 17 | 11 40 | 0 51 | 18 17 | 0 48 | 17 38 | 0 48 | 11 24 | 0 46 | 20 32 | 0 25 | 18 32 | 4 57 | 19 57 | 19 44 | 26 20 | 4 17 | 5 48 |
| T 7 | 22 50 | 16 18 | 0 59 | 18 5 | 1 46 | 22 20 | 2 16 | 11 42 | 0 53 | 18 20 | 0 48 | 17 39 | 0 48 | 11 24 | 0 46 | 20 32 | 0 25 | 18 32 | 4 57 | 19 57 | 19 44 | 26 21 | 4 17 | 5 49 |
| F 8 | 22 55 | 20 19 | 0n 7 | 18 38 | 1 35 | 22 5 | 2 14 | 11 45 | 0 55 | 18 24 | 0 48 | 17 39 | 0 48 | 11 24 | 0 46 | 20 32 | 0 25 | 18 32 | 4 57 | 19 57 | 19 43 | 26 22 | 4 16 | 5 49 |
| S 9 | 23 0 | 23 27 | 1 12 | 19 10 | 1 24 | 21 49 | 2 13 | 11 47 | 0 56 | 18 27 | 0 48 | 17 40 | 0 49 | 11 24 | 0 46 | 20 33 | 0 25 | 18 32 | 4 57 | 19 57 | 19 42 | 26 22 | 4 16 | 5 49 |
| S 10 | 23 5 | 25 33 | 2 13 | 19 42 | 1 13 | 21 32 | 2 11 | 11 50 | 0 58 | 18 30 | 0 48 | 17 41 | 0 49 | 11 24 | 0 46 | 20 33 | 0 25 | 18 32 | 4 57 | 19 57 | 19 42 | 26 23 | 4 16 | 5 50 |
| M11 | 23 9 | 26 30 | 3 9 | 20 14 | 1 2 | 21 15 | 2 10 | 11 53 | 1 0 | 18 33 | 0 48 | 17 41 | 0 49 | 11 25 | 0 46 | 20 33 | 0 25 | 18 32 | 4 57 | 19 56 | 19 41 | 26 24 | 4 16 | 5 50 |
| T 12 | 23 13 | 26 15 | 3 56 | 20 44 | 0 51 | 20 58 | 2 8 | 11 56 | 1 2 | 18 36 | 0 48 | 17 42 | 0 49 | 11 25 | 0 46 | 20 33 | 0 25 | 18 32 | 4 57 | 19 55 | 19 40 | 26 24 | 4 16 | 5 50 |
| W13 | 23 16 | 24 47 | 4 34 | 21 14 | 0 40 | 20 40 | 2 6 | 11 59 | 1 4 | 18 40 | 0 48 | 17 43 | 0 49 | 11 25 | 0 46 | 20 34 | 0 25 | 18 32 | 4 57 | 19 55 | 19 39 | 26 25 | 4 15 | 5 50 |
| T 14 | 23 19 | 22 13 | 5 0 | 21 43 | 0 28 | 20 21 | 2 4 | 12 3 | 1 5 | 18 43 | 0 48 | 17 43 | 0 49 | 11 25 | 0 46 | 20 34 | 0 25 | 18 32 | 4 57 | 19 54 | 19 39 | 26 25 | 4 15 | 5 51 |
| F 15 | 23 22 | 18 39 | 5 12 | 22 10 | 0 17 | 20 2 | 2 2 | 12 7 | 1 7 | 18 46 | 0 48 | 17 44 | 0 49 | 11 25 | 0 46 | 20 34 | 0 25 | 18 32 | 4 56 | 19 53 | 19 38 | 26 26 | 4 15 | 5 51 |
| S 16 | 23 24 | 14 16 | 5 11 | 22 35 | 0 6 | 19 43 | 1 59 | 12 11 | 1 9 | 18 49 | 0 48 | 17 45 | 0 50 | 11 25 | 0 46 | 20 34 | 0 25 | 18 32 | 4 56 | 19 52 | 19 37 | 26 27 | 4 15 | 5 51 |
| S 17 | 23 26 | 9 11 | 4 55 | 22 59 | 0n 5 | 19 23 | 1 57 | 12 15 | 1 10 | 18 52 | 0 48 | 17 46 | 0 50 | 11 26 | 0 46 | 20 35 | 0 25 | 18 33 | 4 56 | 19 52 | 19 36 | 26 27 | 4 15 | 5 52 |
| M18 | 23 27 | 3 36 | 4 25 | 23 20 | 0 16 | 19 3 | 1 54 | 12 20 | 1 12 | 18 55 | 0 48 | 17 46 | 0 50 | 11 26 | 0 46 | 20 35 | 0 25 | 18 33 | 4 56 | 19 52 | 19 36 | 26 28 | 4 15 | 5 52 |
| T 19 | 23 28 | 2s18 | 3 39 | 23 40 | 0 27 | 18 43 | 1 52 | 12 24 | 1 14 | 18 58 | 0 48 | 17 47 | 0 50 | 11 26 | 0 46 | 20 35 | 0 25 | 18 33 | 4 56 | 19 52 | 19 35 | 26 28 | 4 15 | 5 52 |
| W20 | 23 29 | 8 17 | 2 40 | 23 57 | 0 37 | 18 22 | 1 49 | 12 29 | 1 15 | 19 1 | 0 48 | 17 48 | 0 50 | 11 26 | 0 46 | 20 35 | 0 25 | 18 33 | 4 56 | 19 53 | 19 34 | 26 29 | 4 15 | 5 52 |
| T 21 | 23 29 | 14 4 | 1 29 | 24 12 | 0 46 | 18 1 | 1 46 | 12 35 | 1 17 | 19 4 | 0 48 | 17 49 | 0 50 | 11 27 | 0 46 | 20 36 | 0 25 | 18 33 | 4 56 | 19 53 | 19 34 | 26 29 | 4 15 | 5 53 |
| F 22 | 23 29 | 19 15 | 0 11 | 24 24 | 0 55 | 17 40 | 1 42 | 12 40 | 1 18 | 19 6 | 0 48 | 17 50 | 0 50 | 11 27 | 0 46 | 20 36 | 0 25 | 18 33 | 4 56 | 19 53 | 19 33 | 26 30 | 4 15 | 5 53 |
| S 23 | 23 28 | 23 21 | 1s10 | 24 33 | 1 4 | 17 18 | 1 39 | 12 46 | 1 19 | 19 9 | 0 48 | 17 51 | 0 51 | 11 27 | 0 46 | 20 36 | 0 25 | 18 33 | 4 56 | 19 53 | 19 32 | 26 30 | 4 15 | 5 53 |
| S 24 | 23 27 | 25 54 | 2 27 | 24 39 | 1 12 | 16 56 | 1 36 | 12 51 | 1 21 | 19 12 | 0 48 | 17 52 | 0 51 | 11 28 | 0 46 | 20 36 | 0 25 | 18 33 | 4 56 | 19 52 | 19 31 | 26 31 | 4 15 | 5 53 |
| M25 | 23 25 | 26 30 | 3 34 | 24 43 | 1 19 | 16 33 | 1 32 | 12 57 | 1 22 | 19 15 | 0 48 | 17 53 | 0 51 | 11 28 | 0 46 | 20 37 | 0 25 | 18 33 | 4 56 | 19 52 | 19 31 | 26 31 | 4 15 | 5 54 |
| T 26 | 23 24 | 25 7 | 4 26 | 24 44 | 1 26 | 16 11 | 1 28 | 13 3 | 1 23 | 19 18 | 0 48 | 17 54 | 0 51 | 11 28 | 0 47 | 20 37 | 0 25 | 18 33 | 4 56 | 19 51 | 19 30 | 26 32 | 4 15 | 5 54 |
| W27 | 23 21 | 21 59 | 4 58 | 24 41 | 1 31 | 15 48 | 1 24 | 13 10 | 1 25 | 19 20 | 0 48 | 17 55 | 0 51 | 11 29 | 0 47 | 20 37 | 0 25 | 18 33 | 4 56 | 19 49 | 19 29 | 26 32 | 4 16 | 5 54 |
| T 28 | 23 18 | 17 31 | 5 11 | 24 37 | 1 36 | 15 24 | 1 20 | 13 16 | 1 26 | 19 23 | 0 48 | 17 56 | 0 51 | 11 29 | 0 47 | 20 38 | 0 25 | 18 33 | 4 56 | 19 48 | 19 28 | 26 33 | 4 16 | 5 55 |
| F 29 | 23 15 | 12 12 | 5 3 | 24 29 | 1 41 | 15 1 | 1 16 | 13 23 | 1 27 | 19 26 | 0 48 | 17 57 | 0 51 | 11 30 | 0 47 | 20 38 | 0 25 | 18 33 | 4 56 | 19 47 | 19 28 | 26 33 | 4 16 | 5 55 |
| S 30 | 23n12 | 6s27 | 4s39 | 24n19 | 1n44 | 14n37 | 1n12 | 13s30 | 1s28 | 19n28 | 0s48 | 17s58 | 0s52 | 11s30 | 0s47 | 20s38 | 0n25 | 18n33 | 4s56 | 19n47 | 19n27 | 26n34 | 4s16 | 5n55 |

Julian Day Number = 2330436.5, Delta T = 30.76 sec
Ecliptic obliquity = 23°29'01, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'43, Lahiri = 19°13'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## JULY 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 39 2 | 9♋40'28 | 7♈44 | 17♋31 | 25♌ 8 | 2♏ 3 | 0♊31 | 12°R15 | 2°R 0 | 25°R39 | 29♊28 | 28°D 7 | 26♉38 | 4♋33 | 4°R45 | S 1 |
| M 2 | 18 42 58 | 10°37'39 | 20°33 | 19°34 | 26° 6 | 2°20 | 0°43 | 12♒12 | 1♓59 | 25♑37 | 29°29 | 28♉ 7 | 26°34 | 4°40 | 4♓43 | M 2 |
| T 3 | 18 46 55 | 11°34'51 | 3♉ 1 | 21°35 | 27° 4 | 2°38 | 0°55 | 12° 8 | 1°58 | 25°36 | 29°30 | 28° 9 | 26°31 | 4°47 | 4°42 | T 3 |
| W 4 | 18 50 51 | 12°32'03 | 15°13 | 23°35 | 28° 1 | 2°56 | 1° 7 | 12° 5 | 1°57 | 25°34 | 29°32 | 28°10 | 26°28 | 4°53 | 4°40 | W 4 |
| T 5 | 18 54 48 | 13°29'16 | 27°13 | 25°33 | 28°58 | 3°15 | 1°20 | 12° 1 | 1°55 | 25°33 | 29°33 | 28°R11 | 26°25 | 5° 0 | 4°39 | T 5 |
| F 6 | 18 58 44 | 14°26'29 | 9♊ 6 | 27°29 | 29°54 | 3°35 | 1°32 | 11°58 | 1°54 | 25°31 | 29°35 | 28°10 | 26°22 | 5° 7 | 4°37 | F 6 |
| S 7 | 19 2 41 | 15°23'43 | 20°54 | 29°23 | 0♍50 | 3°55 | 1°44 | 11°54 | 1°53 | 25°29 | 29°36 | 28° 7 | 26°19 | 5°13 | 4°36 | S 7 |
| S 8 | 19 6 38 | 16°20'57 | 2♋42 | 1♌15 | 1°46 | 4°15 | 1°56 | 11°50 | 1°51 | 25°28 | 29°38 | 28° 3 | 26°15 | 5°20 | 4°34 | S 8 |
| M 9 | 19 10 34 | 17°18'11 | 14°32 | 3° 5 | 2°40 | 4°36 | 2° 8 | 11°46 | 1°50 | 25°26 | 29°39 | 27°56 | 26°12 | 5°27 | 4°32 | M 9 |
| T 10 | 19 14 31 | 18°15'26 | 26°25 | 4°54 | 3°35 | 4°58 | 2°19 | 11°43 | 1°48 | 25°25 | 29°40 | 27°47 | 26° 9 | 5°33 | 4°31 | T 10 |
| W11 | 19 18 27 | 19°12'41 | 8♌23 | 6°40 | 4°29 | 5°20 | 2°31 | 11°39 | 1°47 | 25°23 | 29°42 | 27°38 | 26° 6 | 5°40 | 4°29 | W11 |
| T 12 | 19 22 24 | 20° 9'56 | 20°28 | 8°25 | 5°22 | 5°42 | 2°43 | 11°35 | 1°45 | 25°21 | 29°43 | 27°28 | 26° 3 | 5°47 | 4°27 | T 12 |
| F 13 | 19 26 20 | 21° 7'12 | 2♍42 | 10° 8 | 6°15 | 6° 5 | 2°54 | 11°31 | 1°43 | 25°20 | 29°45 | 27°19 | 25°59 | 5°53 | 4°25 | F 13 |
| S 14 | 19 30 17 | 22° 4'27 | 15° 5 | 11°49 | 7° 7 | 6°29 | 3° 6 | 11°27 | 1°42 | 25°18 | 29°46 | 27°12 | 25°56 | 6° 0 | 4°23 | S 14 |
| S 15 | 19 34 13 | 23° 1'43 | 27°42 | 13°28 | 7°59 | 6°52 | 3°17 | 11°22 | 1°40 | 25°17 | 29°47 | 27° 7 | 25°53 | 6° 7 | 4°21 | S 15 |
| M16 | 19 38 10 | 23°59'00 | 10♎34 | 15° 5 | 8°50 | 7°16 | 3°29 | 11°18 | 1°38 | 25°15 | 29°49 | 27° 4 | 25°50 | 6°13 | 4°19 | M16 |
| T 17 | 19 42 7 | 24°56'16 | 23°44 | 16°41 | 9°40 | 7°41 | 3°40 | 11°14 | 1°37 | 25°13 | 29°50 | 27°D 3 | 25°47 | 6°20 | 4°17 | T 17 |
| W18 | 19 46 3 | 25°53'33 | 7♏16 | 18°14 | 10°29 | 8° 6 | 3°51 | 11°10 | 1°35 | 25°12 | 29°51 | 27° 3 | 25°44 | 6°27 | 4°15 | W18 |
| T 19 | 19 50 0 | 26°50'50 | 21°10 | 19°46 | 11°18 | 8°32 | 4° 2 | 11° 6 | 1°33 | 25°10 | 29°53 | 27°R 4 | 25°40 | 6°33 | 4°13 | T 19 |
| F 20 | 19 53 56 | 27°48'08 | 5♐29 | 21°15 | 12° 6 | 8°57 | 4°13 | 11° 1 | 1°31 | 25° 8 | 29°54 | 27° 4 | 25°37 | 6°40 | 4°11 | F 20 |
| S 21 | 19 57 53 | 28°45'26 | 20°10 | 22°43 | 12°53 | 9°24 | 4°24 | 10°57 | 1°29 | 25° 7 | 29°55 | 27° 2 | 25°34 | 6°47 | 4° 8 | S 21 |
| S 22 | 20 1 49 | 29°42'45 | 5♑ 9 | 24° 9 | 13°40 | 9°50 | 4°35 | 10°53 | 1°28 | 25° 5 | 29°57 | 26°58 | 25°31 | 6°53 | 4° 6 | S 22 |
| M23 | 20 5 46 | 0♌40'04 | 20°18 | 25°33 | 14°26 | 10°17 | 4°45 | 10°48 | 1°26 | 25° 4 | 29°58 | 26°51 | 25°28 | 7° 0 | 4° 4 | M23 |
| T 24 | 20 9 43 | 1°37'25 | 5♒28 | 26°55 | 15°10 | 10°45 | 4°56 | 10°44 | 1°24 | 25° 2 | 29°59 | 26°43 | 25°25 | 7° 7 | 4° 1 | T 24 |
| W25 | 20 13 39 | 2°34'45 | 20°29 | 28°15 | 15°54 | 11°12 | 5° 6 | 10°40 | 1°22 | 25° 0 | 0♋ 1 | 26°33 | 25°21 | 7°13 | 3°59 | W25 |
| T 26 | 20 17 36 | 3°32'07 | 5♓11 | 29°32 | 16°37 | 11°40 | 5°17 | 10°35 | 1°20 | 24°59 | 0° 2 | 26°24 | 25°18 | 7°20 | 3°57 | T 26 |
| F 27 | 20 21 32 | 4°29'30 | 19°27 | 0♍48 | 17°19 | 12° 9 | 5°27 | 10°31 | 1°18 | 24°57 | 0° 3 | 26°15 | 25°15 | 7°27 | 3°54 | F 27 |
| S 28 | 20 25 29 | 5°26'53 | 3♈14 | 2° 2 | 18° 0 | 12°37 | 5°37 | 10°26 | 1°16 | 24°56 | 0° 4 | 26° 9 | 25°12 | 7°34 | 3°52 | S 28 |
| S 29 | 20 29 25 | 6°24'18 | 16°32 | 3°13 | 18°40 | 13° 6 | 5°47 | 10°22 | 1°13 | 24°54 | 0° 6 | 26° 6 | 25° 9 | 7°40 | 3°49 | S 29 |
| M30 | 20 33 22 | 7°21'44 | 29°23 | 4°22 | 19°18 | 13°36 | 5°57 | 10°17 | 1°11 | 24°52 | 0° 7 | 26° 4 | 25° 5 | 7°47 | 3°47 | M30 |
| T 31 | 20 37 18 | 8♌19'12 | 11♉51 | 5♍28 | 19♍56 | 14♏ 5 | 6♊ 7 | 10♒13 | 1♓ 9 | 24♑51 | 0♋ 8 | 26°D 4 | 25♉ 2 | 7♋54 | 3♓44 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 8 | 0s36 | 4s 0 | 24n 6 | 1n47 | 14n13 | 1n 7 | 13s36 | 1s30 | 19n31 | 0s48 | 17s59 | 0s52 | 11s30 | 0s47 | 20s38 | 0n25 | 18n33 | 4s56 | 19n47 | 19n26 | 26n34 | 4s16 | 5n55 |
| M 2 | 23 3 | 5n 6 | 3 10 | 23 51 | 1 49 | 13 49 | 1 2 | 13 44 | 1 31 | 19 34 | 0 48 | 18 0 | 0 52 | 11 31 | 0 47 | 20 39 | 0 25 | 18 33 | 4 56 | 19 47 | 19 26 | 26 35 | 4 17 | 5 56 |
| T 3 | 22 59 | 10 28 | 2 12 | 23 34 | 1 51 | 13 25 | 0 58 | 13 51 | 1 32 | 19 36 | 0 48 | 18 1 | 0 52 | 11 31 | 0 47 | 20 39 | 0 25 | 18 33 | 4 56 | 19 47 | 19 25 | 26 35 | 4 17 | 5 56 |
| W 4 | 22 54 | 15 19 | 1 10 | 23 15 | 1 52 | 13 0 | 0 53 | 13 58 | 1 33 | 19 39 | 0 48 | 18 2 | 0 52 | 11 32 | 0 47 | 20 39 | 0 25 | 18 33 | 4 56 | 19 47 | 19 24 | 26 36 | 4 17 | 5 56 |
| T 5 | 22 48 | 19 29 | 0 5 | 22 54 | 1 52 | 12 36 | 0 47 | 14 6 | 1 34 | 19 41 | 0 48 | 18 3 | 0 52 | 11 32 | 0 47 | 20 40 | 0 25 | 18 33 | 4 56 | 19 47 | 19 23 | 26 36 | 4 18 | 5 56 |
| F 6 | 22 42 | 22 49 | 0n59 | 22 31 | 1 51 | 12 11 | 0 42 | 14 13 | 1 35 | 19 43 | 0 48 | 18 4 | 0 52 | 11 33 | 0 47 | 20 40 | 0 25 | 18 33 | 4 56 | 19 47 | 19 23 | 26 36 | 4 18 | 5 56 |
| S 7 | 22 36 | 25 10 | 2 0 | 22 6 | 1 50 | 11 46 | 0 37 | 14 21 | 1 36 | 19 46 | 0 48 | 18 6 | 0 52 | 11 33 | 0 47 | 20 40 | 0 25 | 18 33 | 4 56 | 19 47 | 19 22 | 26 37 | 4 18 | 5 57 |
| S 8 | 22 29 | 26 23 | 2 55 | 21 40 | 1 48 | 11 21 | 0 31 | 14 29 | 1 37 | 19 48 | 0 48 | 18 7 | 0 53 | 11 34 | 0 47 | 20 41 | 0 25 | 18 33 | 4 56 | 19 46 | 19 21 | 26 37 | 4 19 | 5 57 |
| M 9 | 22 22 | 26 23 | 3 43 | 21 12 | 1 45 | 10 56 | 0 25 | 14 37 | 1 38 | 19 51 | 0 48 | 18 8 | 0 53 | 11 34 | 0 47 | 20 41 | 0 25 | 18 33 | 4 56 | 19 44 | 19 20 | 26 38 | 4 19 | 5 57 |
| T 10 | 22 14 | 25 11 | 4 22 | 20 44 | 1 42 | 10 31 | 0 19 | 14 45 | 1 39 | 19 53 | 0 48 | 18 9 | 0 53 | 11 35 | 0 47 | 20 41 | 0 25 | 18 34 | 4 55 | 19 42 | 19 20 | 26 38 | 4 19 | 5 57 |
| W11 | 22 6 | 22 51 | 4 49 | 20 14 | 1 38 | 10 5 | 0 13 | 14 53 | 1 40 | 19 55 | 0 48 | 18 10 | 0 53 | 11 36 | 0 47 | 20 41 | 0 25 | 18 34 | 4 55 | 19 40 | 19 19 | 26 39 | 4 20 | 5 58 |
| T 12 | 21 58 | 19 29 | 5 3 | 19 42 | 1 34 | 9 40 | 0 7 | 15 2 | 1 41 | 19 57 | 0 48 | 18 12 | 0 53 | 11 36 | 0 47 | 20 42 | 0 25 | 18 34 | 4 55 | 19 38 | 19 18 | 26 39 | 4 20 | 5 58 |
| F 13 | 21 49 | 15 16 | 5 4 | 19 10 | 1 29 | 9 14 | 0 0 | 15 10 | 1 42 | 20 0 | 0 48 | 18 13 | 0 53 | 11 37 | 0 47 | 20 42 | 0 25 | 18 34 | 4 55 | 19 36 | 19 17 | 26 39 | 4 21 | 5 58 |
| S 14 | 21 40 | 10 21 | 4 51 | 18 38 | 1 24 | 8 49 | 0s 6 | 15 19 | 1 42 | 20 2 | 0 48 | 18 14 | 0 53 | 11 37 | 0 47 | 20 42 | 0 25 | 18 34 | 4 55 | 19 34 | 19 17 | 26 40 | 4 21 | 5 58 |
| S 15 | 21 31 | 4 57 | 4 24 | 18 4 | 1 19 | 8 23 | 0 13 | 15 28 | 1 43 | 20 4 | 0 48 | 18 15 | 0 53 | 11 38 | 0 47 | 20 43 | 0 25 | 18 34 | 4 55 | 19 33 | 19 16 | 26 40 | 4 22 | 5 58 |
| M16 | 21 21 | 0s47 | 3 42 | 17 30 | 1 12 | 7 58 | 0 20 | 15 36 | 1 44 | 20 6 | 0 48 | 18 17 | 0 54 | 11 39 | 0 47 | 20 43 | 0 25 | 18 34 | 4 55 | 19 32 | 19 15 | 26 40 | 4 22 | 5 59 |
| T 17 | 21 11 | 6 37 | 2 49 | 16 55 | 1 6 | 7 32 | 0 27 | 15 45 | 1 45 | 20 8 | 0 48 | 18 18 | 0 54 | 11 39 | 0 47 | 20 43 | 0 25 | 18 34 | 4 55 | 19 32 | 19 14 | 26 41 | 4 23 | 5 59 |
| W18 | 21 0 | 12 19 | 1 44 | 16 20 | 0 59 | 7 7 | 0 35 | 15 54 | 1 46 | 20 10 | 0 48 | 18 19 | 0 54 | 11 40 | 0 47 | 20 44 | 0 25 | 18 34 | 4 55 | 19 32 | 19 14 | 26 41 | 4 24 | 5 59 |
| T 19 | 20 50 | 17 35 | 0 32 | 15 44 | 0 52 | 6 41 | 0 42 | 16 3 | 1 46 | 20 12 | 0 48 | 18 20 | 0 54 | 11 41 | 0 47 | 20 44 | 0 25 | 18 34 | 4 55 | 19 32 | 19 13 | 26 41 | 4 24 | 5 59 |
| F 20 | 20 38 | 22 0 | 0s45 | 15 8 | 0 44 | 6 16 | 0 50 | 16 12 | 1 47 | 20 14 | 0 48 | 18 22 | 0 54 | 11 41 | 0 47 | 20 44 | 0 25 | 18 34 | 4 55 | 19 32 | 19 12 | 26 42 | 4 25 | 5 59 |
| S 21 | 20 27 | 25 7 | 2 0 | 14 32 | 0 36 | 5 51 | 0 58 | 16 21 | 1 48 | 20 16 | 0 48 | 18 23 | 0 54 | 11 42 | 0 47 | 20 44 | 0 25 | 18 34 | 4 55 | 19 32 | 19 11 | 26 42 | 4 25 | 5 59 |
| S 22 | 20 15 | 26 31 | 3 8 | 13 56 | 0 27 | 5 25 | 1 6 | 16 30 | 1 48 | 20 18 | 0 48 | 18 24 | 0 54 | 11 43 | 0 47 | 20 45 | 0 25 | 18 34 | 4 55 | 19 31 | 19 11 | 26 42 | 4 26 | 6 0 |
| M23 | 20 3 | 25 58 | 4 4 | 13 19 | 0 19 | 5 0 | 1 14 | 16 39 | 1 49 | 20 20 | 0 48 | 18 26 | 0 54 | 11 43 | 0 47 | 20 45 | 0 25 | 18 34 | 4 55 | 19 29 | 19 10 | 26 43 | 4 27 | 6 0 |
| T 24 | 19 50 | 23 30 | 4 43 | 12 43 | 0 10 | 4 35 | 1 22 | 16 49 | 1 50 | 20 22 | 0 48 | 18 27 | 0 54 | 11 44 | 0 47 | 20 45 | 0 25 | 18 34 | 4 55 | 19 27 | 19 9 | 26 43 | 4 28 | 6 0 |
| W25 | 19 37 | 19 27 | 5 1 | 12 7 | 0 0 | 4 10 | 1 31 | 16 58 | 1 50 | 20 24 | 0 48 | 18 28 | 0 55 | 11 45 | 0 47 | 20 46 | 0 25 | 18 34 | 4 55 | 19 25 | 19 8 | 26 43 | 4 28 | 6 0 |
| T 26 | 19 24 | 14 16 | 5 0 | 11 31 | 0s 9 | 3 46 | 1 40 | 17 7 | 1 51 | 20 26 | 0 48 | 18 29 | 0 55 | 11 46 | 0 47 | 20 46 | 0 25 | 18 34 | 4 55 | 19 23 | 19 7 | 26 44 | 4 29 | 6 0 |
| F 27 | 19 10 | 8 27 | 4 39 | 10 55 | 0 19 | 3 21 | 1 49 | 17 17 | 1 52 | 20 28 | 0 48 | 18 31 | 0 55 | 11 46 | 0 47 | 20 46 | 0 25 | 18 34 | 4 55 | 19 21 | 19 7 | 26 44 | 4 30 | 6 0 |
| S 28 | 18 57 | 2 25 | 4 2 | 10 19 | 0 29 | 2 57 | 1 58 | 17 26 | 1 52 | 20 29 | 0 48 | 18 32 | 0 55 | 11 47 | 0 47 | 20 47 | 0 25 | 18 34 | 4 55 | 19 20 | 19 6 | 26 44 | 4 30 | 6 0 |
| S 29 | 18 42 | 3n31 | 3 14 | 9 44 | 0 40 | 2 33 | 2 7 | 17 35 | 1 53 | 20 31 | 0 48 | 18 33 | 0 55 | 11 48 | 0 47 | 20 47 | 0 25 | 18 34 | 4 55 | 19 19 | 19 5 | 26 44 | 4 31 | 6 1 |
| M30 | 18 28 | 9 8 | 2 17 | 9 9 | 0 50 | 2 9 | 2 16 | 17 45 | 1 53 | 20 33 | 0 48 | 18 35 | 0 55 | 11 49 | 0 47 | 20 47 | 0 25 | 18 34 | 4 56 | 19 18 | 19 4 | 26 45 | 4 32 | 6 1 |
| T 31 | 18n13 | 14n14 | 1s15 | 8n35 | 1s 1 | 1n45 | 2s26 | 17s54 | 1s54 | 20n34 | 0s48 | 18s36 | 0s55 | 11s49 | 0s47 | 20s47 | 0n25 | 18n34 | 4s56 | 19n18 | 19n 4 | 26n45 | 4s33 | 6n 1 |

Julian Day Number = 2330466.5, Delta T = 30.71 sec
Ecliptic obliquity = 23°29'01, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'47, Lahiri = 19°13'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## AUGUST 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 41 15 | 9♌16'40 | 24♉ 1 | 6♍33 | 20♍33 | 14♏35 | 6♊17 | 10°R 8 | 1°R 7 | 24°R49 | 0♋ 9 | 26°R 4 | 24♉59 | 8♋ 0 | 3°R42 | W 1 |
| T 2 | 20 45 11 | 10°14'11 | 5♊59 | 7°34 | 21° 8 | 15° 6 | 6°26 | 10♒ 4 | 1♓ 5 | 24♂48 | 0°10 | 26♉ 4 | 24°56 | 8° 7 | 3♓39 | T 2 |
| F 3 | 20 49 8 | 11°11'42 | 17°50 | 8°33 | 21°42 | 15°36 | 6°36 | 10° 0 | 1° 3 | 24°46 | 0°11 | 26° 2 | 24°53 | 8°14 | 3°36 | F 3 |
| S 4 | 20 53 5 | 12° 9'15 | 29°38 | 9°29 | 22°15 | 16° 7 | 6°45 | 9°55 | 1° 1 | 24°45 | 0°13 | 25°57 | 24°50 | 8°20 | 3°34 | S 4 |
| S 5 | 20 57 1 | 13° 6'49 | 11♋27 | 10°22 | 22°46 | 16°38 | 6°54 | 9°51 | 0°58 | 24°43 | 0°14 | 25°50 | 24°46 | 8°27 | 3°31 | S 5 |
| M 6 | 21 0 58 | 14° 4'24 | 23°20 | 11°12 | 23°16 | 17°10 | 7° 3 | 9°46 | 0°56 | 24°42 | 0°15 | 25°41 | 24°43 | 8°34 | 3°28 | M 6 |
| T 7 | 21 4 54 | 15° 2'01 | 5♌20 | 11°58 | 23°44 | 17°41 | 7°12 | 9°42 | 0°54 | 24°40 | 0°16 | 25°29 | 24°40 | 8°40 | 3°25 | T 7 |
| W 8 | 21 8 51 | 15°59'38 | 17°27 | 12°41 | 24°11 | 18°14 | 7°21 | 9°37 | 0°51 | 24°39 | 0°17 | 25°15 | 24°37 | 8°47 | 3°23 | W 8 |
| T 9 | 21 12 47 | 16°57'17 | 29°44 | 13°21 | 24°37 | 18°46 | 7°30 | 9°33 | 0°49 | 24°37 | 0°18 | 25° 2 | 24°34 | 8°54 | 3°20 | T 9 |
| F 10 | 21 16 44 | 17°54'58 | 12♍11 | 13°57 | 25° 0 | 19°18 | 7°39 | 9°28 | 0°47 | 24°36 | 0°19 | 24°49 | 24°30 | 9° 0 | 3°17 | F 10 |
| S 11 | 21 20 41 | 18°52'39 | 24°48 | 14°28 | 25°22 | 19°51 | 7°47 | 9°24 | 0°45 | 24°34 | 0°20 | 24°39 | 24°27 | 9° 7 | 3°14 | S 11 |
| S 12 | 21 24 37 | 19°50'21 | 7♎36 | 14°56 | 25°43 | 20°24 | 7°56 | 9°20 | 0°42 | 24°33 | 0°21 | 24°31 | 24°24 | 9°14 | 3°11 | S 12 |
| M13 | 21 28 34 | 20°48'05 | 20°36 | 15°18 | 26° 1 | 20°58 | 8° 4 | 9°15 | 0°40 | 24°31 | 0°22 | 24°26 | 24°21 | 9°20 | 3° 8 | M13 |
| T 14 | 21 32 30 | 21°45'49 | 3♏51 | 15°36 | 26°18 | 21°32 | 8°12 | 9°11 | 0°38 | 24°30 | 0°23 | 24°24 | 24°18 | 9°27 | 3° 6 | T 14 |
| W15 | 21 36 27 | 22°43'35 | 17°21 | 15°49 | 26°32 | 22° 5 | 8°20 | 9° 7 | 0°35 | 24°29 | 0°24 | 24°23 | 24°15 | 9°34 | 3° 3 | W15 |
| T 16 | 21 40 23 | 23°41'22 | 1♐ 9 | 15°57 | 26°45 | 22°40 | 8°28 | 9° 2 | 0°33 | 24°27 | 0°25 | 24°23 | 24°11 | 9°40 | 3° 0 | T 16 |
| F 17 | 21 44 20 | 24°39'10 | 15°15 | 16°R 0 | 26°55 | 23°14 | 8°35 | 8°58 | 0°30 | 24°26 | 0°26 | 24°22 | 24° 8 | 9°47 | 2°57 | F 17 |
| S 18 | 21 48 16 | 25°37'00 | 29°39 | 15°56 | 27° 4 | 23°49 | 8°43 | 8°54 | 0°28 | 24°24 | 0°27 | 24°20 | 24° 5 | 9°54 | 2°54 | S 18 |
| S 19 | 21 52 13 | 26°34'50 | 14♑19 | 15°47 | 27°10 | 24°23 | 8°50 | 8°50 | 0°26 | 24°23 | 0°28 | 24°15 | 24° 2 | 10° 1 | 2°51 | S 19 |
| M20 | 21 56 10 | 27°32'42 | 29°10 | 15°32 | 27°14 | 24°58 | 8°58 | 8°46 | 0°23 | 24°22 | 0°29 | 24° 7 | 23°59 | 10° 7 | 2°48 | M20 |
| T 21 | 22 0 6 | 28°30'36 | 14♒ 3 | 15°11 | 27°R16 | 25°34 | 9° 5 | 8°42 | 0°21 | 24°21 | 0°30 | 23°57 | 23°56 | 10°14 | 2°45 | T 21 |
| W22 | 22 4 3 | 29°28'30 | 28°51 | 14°44 | 27°15 | 26° 9 | 9°12 | 8°38 | 0°19 | 24°19 | 0°31 | 23°46 | 23°52 | 10°21 | 2°42 | W22 |
| T 23 | 22 7 59 | 0♍26'26 | 13♓25 | 14°11 | 27°12 | 26°45 | 9°18 | 8°34 | 0°16 | 24°18 | 0°31 | 23°34 | 23°49 | 10°27 | 2°39 | T 23 |
| F 24 | 22 11 56 | 1°24'24 | 27°37 | 13°33 | 27° 7 | 27°21 | 9°25 | 8°30 | 0°14 | 24°17 | 0°32 | 23°25 | 23°46 | 10°34 | 2°36 | F 24 |
| S 25 | 22 15 52 | 2°22'23 | 11♈24 | 12°50 | 26°59 | 27°57 | 9°32 | 8°26 | 0°11 | 24°16 | 0°33 | 23°17 | 23°43 | 10°41 | 2°33 | S 25 |
| S 26 | 22 19 49 | 3°20'25 | 24°43 | 12° 2 | 26°49 | 28°33 | 9°38 | 8°22 | 0° 9 | 24°14 | 0°34 | 23°12 | 23°40 | 10°47 | 2°30 | S 26 |
| M27 | 22 23 45 | 4°18'28 | 7♉36 | 11° 9 | 26°36 | 29°10 | 9°44 | 8°18 | 0° 7 | 24°13 | 0°35 | 23° 9 | 23°36 | 10°54 | 2°27 | M27 |
| T 28 | 22 27 42 | 5°16'33 | 20° 7 | 10°14 | 26°21 | 29°47 | 9°50 | 8°14 | 0° 4 | 24°12 | 0°35 | 23°D 8 | 23°33 | 11° 1 | 2°24 | T 28 |
| W29 | 22 31 38 | 6°14'40 | 2♊19 | 9°17 | 26° 4 | 0♐23 | 9°56 | 8°11 | 0° 2 | 24°11 | 0°36 | 23°R 8 | 23°30 | 11° 7 | 2°22 | W29 |
| T 30 | 22 35 35 | 7°12'49 | 14°18 | 8°19 | 25°45 | 1° 1 | 10° 2 | 8° 7 | 29♒59 | 24°10 | 0°37 | 23° 8 | 23°27 | 11°14 | 2°19 | T 30 |
| F 31 | 22 39 32 | 8♍11'01 | 26♊10 | 7♍21 | 25♍23 | 1♐38 | 10♊ 7 | 8♒ 3 | 29♒57 | 24♂ 9 | 0♋37 | 23♉ 7 | 23♉24 | 11♋21 | 2♓16 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17n58 | 18n38 | 0s11 | 8n 1 | 1s11 | 1n22 | 2s36 | 18s 4 | 1s54 | 20n36 | 0s48 | 18s37 | 0s55 | 11s50 | 0s47 | 20s48 | 0n25 | 18n33 | 4s56 | 19n18 | 19n 3 | 26n45 | 4s34 | 6n 1 |
| T 2 | 17 43 | 22 12 | 0n52 | 7 28 | 1 22 | 0 59 | 2 46 | 18 13 | 1 55 | 20 38 | 0 49 | 18 39 | 0 55 | 11 51 | 0 48 | 20 48 | 0 25 | 18 33 | 4 56 | 19 18 | 19 2 | 26 45 | 4 35 | 6 1 |
| F 3 | 17 27 | 24 48 | 1 53 | 6 56 | 1 33 | 0 36 | 2 56 | 18 23 | 1 55 | 20 39 | 0 49 | 18 40 | 0 55 | 11 52 | 0 48 | 20 48 | 0 25 | 18 33 | 4 56 | 19 18 | 19 1 | 26 45 | 4 35 | 6 1 |
| S 4 | 17 11 | 26 17 | 2 48 | 6 25 | 1 45 | 0 14 | 3 6 | 18 32 | 1 56 | 20 41 | 0 49 | 18 41 | 0 55 | 11 53 | 0 48 | 20 49 | 0 25 | 18 33 | 4 56 | 19 17 | 19 1 | 26 46 | 4 36 | 6 1 |
| S 5 | 16 55 | 26 34 | 3 36 | 5 55 | 1 56 | 0s 8 | 3 16 | 18 42 | 1 56 | 20 42 | 0 49 | 18 42 | 0 56 | 11 53 | 0 48 | 20 49 | 0 25 | 18 33 | 4 56 | 19 15 | 19 0 | 26 46 | 4 37 | 6 1 |
| M 6 | 16 38 | 25 38 | 4 14 | 5 25 | 2 7 | 0 29 | 3 27 | 18 51 | 1 56 | 20 44 | 0 49 | 18 44 | 0 56 | 11 54 | 0 48 | 20 49 | 0 25 | 18 33 | 4 56 | 19 13 | 18 59 | 26 46 | 4 38 | 6 1 |
| T 7 | 16 21 | 23 32 | 4 42 | 4 57 | 2 18 | 0 50 | 3 38 | 19 0 | 1 57 | 20 45 | 0 49 | 18 45 | 0 56 | 11 55 | 0 48 | 20 50 | 0 25 | 18 33 | 4 56 | 19 10 | 18 58 | 26 46 | 4 39 | 6 1 |
| W 8 | 16 4 | 20 21 | 4 57 | 4 30 | 2 29 | 1 11 | 3 48 | 19 10 | 1 57 | 20 47 | 0 49 | 18 46 | 0 56 | 11 56 | 0 48 | 20 50 | 0 25 | 18 33 | 4 56 | 19 7 | 18 57 | 26 46 | 4 40 | 6 1 |
| T 9 | 15 47 | 16 15 | 4 59 | 4 5 | 2 41 | 1 31 | 3 59 | 19 19 | 1 58 | 20 48 | 0 49 | 18 47 | 0 56 | 11 57 | 0 48 | 20 50 | 0 25 | 18 33 | 4 56 | 19 4 | 18 57 | 26 47 | 4 41 | 6 1 |
| F 10 | 15 29 | 11 25 | 4 47 | 3 41 | 2 52 | 1 51 | 4 11 | 19 29 | 1 58 | 20 49 | 0 49 | 18 49 | 0 56 | 11 58 | 0 48 | 20 50 | 0 25 | 18 33 | 4 56 | 19 1 | 18 56 | 26 47 | 4 42 | 6 2 |
| S 11 | 15 12 | 6 3 | 4 20 | 3 19 | 3 2 | 2 10 | 4 22 | 19 38 | 1 58 | 20 51 | 0 49 | 18 50 | 0 56 | 11 58 | 0 48 | 20 51 | 0 25 | 18 33 | 4 56 | 18 58 | 18 55 | 26 47 | 4 43 | 6 2 |
| S 12 | 14 54 | 0 21 | 3 40 | 2 59 | 3 13 | 2 28 | 4 33 | 19 47 | 1 58 | 20 52 | 0 49 | 18 51 | 0 56 | 11 59 | 0 48 | 20 51 | 0 25 | 18 33 | 4 56 | 18 56 | 18 54 | 26 47 | 4 44 | 6 2 |
| M13 | 14 35 | 5s28 | 2 48 | 2 40 | 3 23 | 2 46 | 4 44 | 19 56 | 1 59 | 20 53 | 0 49 | 18 52 | 0 56 | 12 0 | 0 48 | 20 51 | 0 25 | 18 33 | 4 56 | 18 55 | 18 54 | 26 47 | 4 45 | 6 2 |
| T 14 | 14 17 | 11 9 | 1 46 | 2 24 | 3 33 | 3 3 | 4 56 | 20 6 | 1 59 | 20 54 | 0 49 | 18 54 | 0 56 | 12 1 | 0 48 | 20 51 | 0 25 | 18 33 | 4 56 | 18 54 | 18 53 | 26 47 | 4 46 | 6 2 |
| W15 | 13 58 | 16 27 | 0 37 | 2 10 | 3 43 | 3 19 | 5 7 | 20 15 | 1 59 | 20 56 | 0 49 | 18 55 | 0 56 | 12 2 | 0 48 | 20 52 | 0 25 | 18 33 | 4 56 | 18 54 | 18 52 | 26 48 | 4 47 | 6 2 |
| T 16 | 13 39 | 21 1 | 0s36 | 1 59 | 3 52 | 3 35 | 5 19 | 20 24 | 2 0 | 20 57 | 0 49 | 18 56 | 0 56 | 12 3 | 0 48 | 20 52 | 0 25 | 18 33 | 4 56 | 18 54 | 18 51 | 26 48 | 4 48 | 6 2 |
| F 17 | 13 20 | 24 27 | 1 48 | 1 50 | 4 0 | 3 50 | 5 31 | 20 33 | 2 0 | 20 58 | 0 49 | 18 57 | 0 56 | 12 3 | 0 48 | 20 52 | 0 25 | 18 33 | 4 56 | 18 54 | 18 50 | 26 48 | 4 49 | 6 2 |
| S 18 | 13 0 | 26 24 | 2 55 | 1 45 | 4 8 | 4 4 | 5 42 | 20 42 | 2 0 | 20 59 | 0 49 | 18 58 | 0 56 | 12 4 | 0 48 | 20 52 | 0 25 | 18 33 | 4 56 | 18 53 | 18 50 | 26 48 | 4 50 | 6 2 |
| S 19 | 12 41 | 26 33 | 3 51 | 1 42 | 4 15 | 4 17 | 5 54 | 20 51 | 2 0 | 21 0 | 0 49 | 19 0 | 0 56 | 12 5 | 0 48 | 20 53 | 0 25 | 18 33 | 4 56 | 18 52 | 18 49 | 26 48 | 4 51 | 6 2 |
| M20 | 12 21 | 24 48 | 4 33 | 1 42 | 4 21 | 4 29 | 6 5 | 21 0 | 2 1 | 21 1 | 0 49 | 19 1 | 0 56 | 12 6 | 0 48 | 20 53 | 0 24 | 18 33 | 4 56 | 18 50 | 18 48 | 26 48 | 4 52 | 6 2 |
| T 21 | 12 1 | 21 21 | 4 56 | 1 46 | 4 25 | 4 40 | 6 17 | 21 8 | 2 1 | 21 2 | 0 49 | 19 2 | 0 57 | 12 7 | 0 48 | 20 53 | 0 24 | 18 33 | 4 56 | 18 48 | 18 47 | 26 48 | 4 53 | 6 2 |
| W22 | 11 41 | 16 34 | 4 59 | 1 53 | 4 29 | 4 50 | 6 28 | 21 17 | 2 1 | 21 3 | 0 49 | 19 3 | 0 57 | 12 8 | 0 48 | 20 53 | 0 24 | 18 33 | 4 56 | 18 45 | 18 47 | 26 48 | 4 54 | 6 2 |
| T 23 | 11 20 | 10 53 | 4 43 | 2 4 | 4 31 | 4 59 | 6 39 | 21 26 | 2 1 | 21 4 | 0 50 | 19 4 | 0 57 | 12 9 | 0 48 | 20 54 | 0 24 | 18 33 | 4 56 | 18 42 | 18 46 | 26 48 | 4 55 | 6 2 |
| F 24 | 11 0 | 4 45 | 4 9 | 2 18 | 4 31 | 5 7 | 6 50 | 21 34 | 2 1 | 21 5 | 0 50 | 19 5 | 0 57 | 12 9 | 0 48 | 20 54 | 0 24 | 18 33 | 4 56 | 18 40 | 18 45 | 26 48 | 4 56 | 6 1 |
| S 25 | 10 39 | 1n25 | 3 22 | 2 36 | 4 30 | 5 14 | 7 1 | 21 43 | 2 1 | 21 6 | 0 50 | 19 6 | 0 57 | 12 10 | 0 48 | 20 54 | 0 24 | 18 33 | 4 56 | 18 38 | 18 44 | 26 48 | 4 57 | 6 1 |
| S 26 | 10 18 | 7 21 | 2 24 | 2 57 | 4 27 | 5 20 | 7 12 | 21 51 | 2 1 | 21 7 | 0 50 | 19 7 | 0 57 | 12 11 | 0 48 | 20 54 | 0 24 | 18 33 | 4 56 | 18 36 | 18 43 | 26 48 | 4 58 | 6 1 |
| M27 | 9 57 | 12 47 | 1 21 | 3 21 | 4 22 | 5 24 | 7 22 | 21 59 | 2 2 | 21 8 | 0 50 | 19 8 | 0 57 | 12 12 | 0 48 | 20 55 | 0 24 | 18 33 | 4 56 | 18 36 | 18 43 | 26 48 | 5 0 | 6 1 |
| T 28 | 9 36 | 17 33 | 0 16 | 3 48 | 4 15 | 5 27 | 7 32 | 22 7 | 2 2 | 21 9 | 0 50 | 19 9 | 0 57 | 12 13 | 0 48 | 20 55 | 0 24 | 18 32 | 4 57 | 18 36 | 18 42 | 26 49 | 5 1 | 6 1 |
| W29 | 9 14 | 21 27 | 0n48 | 4 18 | 4 6 | 5 29 | 7 41 | 22 15 | 2 2 | 21 10 | 0 50 | 19 10 | 0 57 | 12 14 | 0 48 | 20 55 | 0 24 | 18 32 | 4 57 | 18 36 | 18 41 | 26 49 | 5 2 | 6 1 |
| T 30 | 8 53 | 24 23 | 1 50 | 4 49 | 3 56 | 5 29 | 7 50 | 22 23 | 2 2 | 21 10 | 0 50 | 19 11 | 0 57 | 12 14 | 0 48 | 20 55 | 0 24 | 18 32 | 4 57 | 18 36 | 18 40 | 26 49 | 5 3 | 6 1 |
| F 31 | 8n31 | 26n11 | 2n46 | 5n22 | 3s43 | 5s29 | 7s58 | 22s31 | 2s 2 | 21n11 | 0s50 | 19s12 | 0s57 | 12s15 | 0s48 | 20s55 | 0n24 | 18n32 | 4s57 | 18n35 | 18n39 | 26n49 | 5s 4 | 6n 1 |

Julian Day Number = 2330497.5, Delta T = 30.66 sec
Ecliptic obliquity = 23°29'02, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'51, Lahiri = 19°13'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## SEPTEMBER 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 43 28 | 9♍ 9'14 | 7♋59 | 6°R24 | 24°R59 | 2♐15 | 10♊13 | 8°R 0 | 29°R55 | 24°R 8 | 0♋38 | 23°R 3 | 23♉21 | 11♋27 | 2°R13 | S 1 |
| S 2 | 22 47 25 | 10° 7'29 | 19°50 | 5♍31 | 24♍34 | 2°53 | 10°18 | 7♒56 | 29♒52 | 24♑ 7 | 0°39 | 22♉57 | 23°17 | 11°34 | 2♓10 | S 2 |
| M 3 | 22 51 21 | 11° 5'46 | 1♌48 | 4°41 | 24° 6 | 3°31 | 10°23 | 7°53 | 29°50 | 24° 6 | 0°39 | 22°49 | 23°14 | 11°41 | 2° 7 | M 3 |
| T 4 | 22 55 18 | 12° 4'06 | 13°55 | 3°57 | 23°37 | 4° 9 | 10°28 | 7°50 | 29°48 | 24° 5 | 0°40 | 22°38 | 23°11 | 11°48 | 2° 4 | T 4 |
| W 5 | 22 59 14 | 13° 2'27 | 26°13 | 3°20 | 23° 5 | 4°47 | 10°33 | 7°46 | 29°45 | 24° 4 | 0°41 | 22°26 | 23° 8 | 11°54 | 2° 1 | W 5 |
| T 6 | 23 3 11 | 14° 0'49 | 8♍44 | 2°49 | 22°33 | 5°25 | 10°37 | 7°43 | 29°43 | 24° 3 | 0°41 | 22°14 | 23° 5 | 12° 1 | 1°58 | T 6 |
| F 7 | 23 7 7 | 14°59'14 | 21°28 | 2°27 | 21°59 | 6° 4 | 10°42 | 7°40 | 29°41 | 24° 2 | 0°42 | 22° 2 | 23° 2 | 12° 8 | 1°55 | F 7 |
| S 8 | 23 11 4 | 15°57'41 | 4♎24 | 2°14 | 21°24 | 6°43 | 10°46 | 7°37 | 29°39 | 24° 1 | 0°42 | 21°52 | 22°58 | 12°14 | 1°53 | S 8 |
| S 9 | 23 15 1 | 16°56'09 | 17°31 | 2°D10 | 20°48 | 7°22 | 10°50 | 7°34 | 29°36 | 24° 0 | 0°43 | 21°45 | 22°55 | 12°21 | 1°50 | S 9 |
| M10 | 23 18 57 | 17°54'39 | 0♏49 | 2°15 | 20°12 | 8° 1 | 10°54 | 7°31 | 29°34 | 24° 0 | 0°43 | 21°41 | 22°52 | 12°28 | 1°47 | M10 |
| T 11 | 23 22 54 | 18°53'11 | 14°19 | 2°29 | 19°35 | 8°40 | 10°57 | 7°29 | 29°32 | 23°59 | 0°44 | 21°39 | 22°49 | 12°34 | 1°44 | T 11 |
| W12 | 23 26 50 | 19°51'45 | 27°58 | 2°53 | 18°58 | 9°19 | 11° 1 | 7°26 | 29°30 | 23°58 | 0°44 | 21°D39 | 22°46 | 12°41 | 1°41 | W12 |
| T 13 | 23 30 47 | 20°50'20 | 11♐49 | 3°26 | 18°21 | 9°59 | 11° 4 | 7°23 | 29°27 | 23°57 | 0°44 | 21°40 | 22°42 | 12°48 | 1°39 | T 13 |
| F 14 | 23 34 43 | 21°48'57 | 25°51 | 4° 8 | 17°45 | 10°39 | 11° 7 | 7°21 | 29°25 | 23°57 | 0°45 | 21°R40 | 22°39 | 12°54 | 1°36 | F 14 |
| S 15 | 23 38 40 | 22°47'36 | 10♑ 3 | 4°58 | 17° 9 | 11°18 | 11°10 | 7°18 | 29°23 | 23°56 | 0°45 | 21°39 | 22°36 | 13° 1 | 1°33 | S 15 |
| S 16 | 23 42 36 | 23°46'16 | 24°24 | 5°56 | 16°33 | 11°58 | 11°13 | 7°16 | 29°21 | 23°56 | 0°45 | 21°35 | 22°33 | 13° 8 | 1°31 | S 16 |
| M17 | 23 46 33 | 24°44'58 | 8♒51 | 7° 1 | 15°59 | 12°39 | 11°15 | 7°13 | 29°19 | 23°55 | 0°46 | 21°29 | 22°30 | 13°15 | 1°28 | M17 |
| T 18 | 23 50 30 | 25°43'42 | 23°19 | 8°13 | 15°26 | 13°19 | 11°17 | 7°11 | 29°17 | 23°54 | 0°46 | 21°22 | 22°27 | 13°21 | 1°25 | T 18 |
| W19 | 23 54 26 | 26°42'27 | 7♓42 | 9°31 | 14°54 | 13°59 | 11°19 | 7° 9 | 29°15 | 23°54 | 0°46 | 21°13 | 22°23 | 13°28 | 1°23 | W19 |
| T 20 | 23 58 23 | 27°41'15 | 21°54 | 10°54 | 14°24 | 14°40 | 11°21 | 7° 7 | 29°13 | 23°53 | 0°47 | 21° 4 | 22°20 | 13°35 | 1°20 | T 20 |
| F 21 | 0 2 19 | 28°40'04 | 5♈50 | 12°21 | 13°56 | 15°20 | 11°23 | 7° 5 | 29°11 | 23°53 | 0°47 | 20°57 | 22°17 | 13°41 | 1°18 | F 21 |
| S 22 | 0 6 16 | 29°38'55 | 19°25 | 13°53 | 13°30 | 16° 1 | 11°25 | 7° 3 | 29° 9 | 23°52 | 0°47 | 20°51 | 22°14 | 13°48 | 1°15 | S 22 |
| S 23 | 0 10 12 | 0♎37'49 | 2♉38 | 15°28 | 13° 5 | 16°42 | 11°26 | 7° 2 | 29° 7 | 23°52 | 0°47 | 20°47 | 22°11 | 13°55 | 1°13 | S 23 |
| M24 | 0 14 9 | 1°36'45 | 15°29 | 17° 6 | 12°43 | 17°23 | 11°27 | 7° 0 | 29° 5 | 23°52 | 0°47 | 20°D45 | 22° 7 | 14° 1 | 1°10 | M24 |
| T 25 | 0 18 5 | 2°35'43 | 28° 0 | 18°46 | 12°24 | 18° 4 | 11°28 | 6°58 | 29° 3 | 23°51 | 0°47 | 20°45 | 22° 4 | 14° 8 | 1° 8 | T 25 |
| W26 | 0 22 2 | 3°34'43 | 10♊13 | 20°29 | 12° 6 | 18°46 | 11°29 | 6°57 | 29° 1 | 23°51 | 0°48 | 20°46 | 22° 1 | 14°15 | 1° 5 | W26 |
| T 27 | 0 25 59 | 4°33'46 | 22°14 | 22°12 | 11°51 | 19°27 | 11°29 | 6°55 | 28°59 | 23°51 | 0°48 | 20°48 | 21°58 | 14°21 | 1° 3 | T 27 |
| F 28 | 0 29 55 | 5°32'51 | 4♋ 7 | 23°57 | 11°38 | 20° 9 | 11°30 | 6°54 | 28°58 | 23°50 | 0°48 | 20°R48 | 21°55 | 14°28 | 1° 1 | F 28 |
| S 29 | 0 33 52 | 6°31'58 | 15°58 | 25°43 | 11°28 | 20°50 | 11°R30 | 6°53 | 28°56 | 23°50 | 0°48 | 20°48 | 21°52 | 14°35 | 0°59 | S 29 |
| S 30 | 0 37 48 | 7♎31'07 | 27♋51 | 27♍29 | 11♍20 | 21♐32 | 11♊30 | 6♒52 | 28♒54 | 23♑50 | 0°R48 | 20♉46 | 21♉48 | 14♋42 | 0♓56 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n 9 | 26n48 | 3n34 | 5n56 | 3s29 | 5s26 | 8s 6 | 22s39 | 2s 2 | 21n12 | 0s50 | 19s13 | 0s57 | 12s16 | 0s48 | 20s56 | 0n24 | 18n32 | 4s57 | 18n34 | 18n39 | 26n49 | 5s 5 | 6n 1 |
| S 2 | 7 47 | 26 11 | 4 13 | 6 31 | 3 13 | 5 23 | 8 13 | 22 46 | 2 2 | 21 13 | 0 50 | 19 14 | 0 57 | 12 17 | 0 48 | 20 56 | 0 24 | 18 32 | 4 57 | 18 33 | 18 38 | 26 49 | 5 6 | 6 1 |
| M 3 | 7 25 | 24 22 | 4 42 | 7 4 | 2 56 | 5 18 | 8 20 | 22 53 | 2 2 | 21 13 | 0 50 | 19 15 | 0 57 | 12 18 | 0 48 | 20 56 | 0 24 | 18 32 | 4 57 | 18 31 | 18 37 | 26 49 | 5 7 | 6 1 |
| T 4 | 7 3 | 21 26 | 4 58 | 7 37 | 2 38 | 5 12 | 8 26 | 23 1 | 2 2 | 21 14 | 0 50 | 19 16 | 0 57 | 12 19 | 0 48 | 20 56 | 0 24 | 18 32 | 4 57 | 18 28 | 18 36 | 26 49 | 5 9 | 6 1 |
| W 5 | 6 41 | 17 31 | 5 1 | 8 8 | 2 19 | 5 4 | 8 31 | 23 8 | 2 2 | 21 14 | 0 50 | 19 17 | 0 57 | 12 19 | 0 48 | 20 56 | 0 24 | 18 32 | 4 57 | 18 25 | 18 35 | 26 48 | 5 10 | 6 0 |
| T 6 | 6 18 | 12 47 | 4 49 | 8 37 | 2 0 | 4 55 | 8 35 | 23 15 | 2 2 | 21 15 | 0 50 | 19 18 | 0 57 | 12 20 | 0 48 | 20 57 | 0 24 | 18 32 | 4 57 | 18 22 | 18 35 | 26 48 | 5 11 | 6 0 |
| F 7 | 5 55 | 7 25 | 4 23 | 9 3 | 1 41 | 4 45 | 8 39 | 23 22 | 2 2 | 21 16 | 0 50 | 19 18 | 0 57 | 12 21 | 0 48 | 20 57 | 0 24 | 18 32 | 4 57 | 18 19 | 18 34 | 26 48 | 5 12 | 6 0 |
| S 8 | 5 33 | 1 40 | 3 44 | 9 26 | 1 21 | 4 34 | 8 41 | 23 28 | 2 2 | 21 16 | 0 50 | 19 19 | 0 57 | 12 22 | 0 48 | 20 57 | 0 24 | 18 32 | 4 57 | 18 16 | 18 33 | 26 48 | 5 13 | 6 0 |
| S 9 | 5 10 | 4s15 | 2 51 | 9 46 | 1 2 | 4 22 | 8 43 | 23 35 | 2 2 | 21 17 | 0 51 | 19 20 | 0 57 | 12 22 | 0 48 | 20 57 | 0 24 | 18 32 | 4 57 | 18 14 | 18 32 | 26 48 | 5 14 | 6 0 |
| M10 | 4 47 | 10 5 | 1 49 | 10 1 | 0 43 | 4 8 | 8 44 | 23 41 | 2 2 | 21 17 | 0 51 | 19 21 | 0 57 | 12 23 | 0 48 | 20 57 | 0 24 | 18 32 | 4 57 | 18 13 | 18 31 | 26 48 | 5 15 | 6 0 |
| T 11 | 4 24 | 15 32 | 0 39 | 10 13 | 0 25 | 3 54 | 8 43 | 23 47 | 2 2 | 21 18 | 0 51 | 19 21 | 0 57 | 12 24 | 0 48 | 20 57 | 0 24 | 18 32 | 4 57 | 18 13 | 18 31 | 26 48 | 5 17 | 5 59 |
| W12 | 4 1 | 20 18 | 0s34 | 10 20 | 0 8 | 3 38 | 8 42 | 23 54 | 2 2 | 21 18 | 0 51 | 19 22 | 0 57 | 12 25 | 0 48 | 20 58 | 0 24 | 18 32 | 4 57 | 18 13 | 18 30 | 26 48 | 5 18 | 5 59 |
| T 13 | 3 38 | 23 59 | 1 46 | 10 24 | 0n 8 | 3 22 | 8 40 | 23 59 | 2 1 | 21 18 | 0 51 | 19 23 | 0 57 | 12 26 | 0 48 | 20 58 | 0 24 | 18 32 | 4 57 | 18 13 | 18 29 | 26 48 | 5 19 | 5 59 |
| F 14 | 3 15 | 26 17 | 2 52 | 10 23 | 0 24 | 3 5 | 8 37 | 24 5 | 2 1 | 21 19 | 0 51 | 19 23 | 0 57 | 12 26 | 0 48 | 20 58 | 0 24 | 18 31 | 4 57 | 18 13 | 18 28 | 26 48 | 5 20 | 5 59 |
| S 15 | 2 52 | 26 54 | 3 49 | 10 17 | 0 38 | 2 47 | 8 33 | 24 11 | 2 1 | 21 19 | 0 51 | 19 24 | 0 57 | 12 27 | 0 48 | 20 58 | 0 24 | 18 31 | 4 58 | 18 13 | 18 27 | 26 48 | 5 21 | 5 59 |
| S 16 | 2 29 | 25 44 | 4 32 | 10 8 | 0 50 | 2 29 | 8 28 | 24 16 | 2 1 | 21 19 | 0 51 | 19 25 | 0 57 | 12 28 | 0 48 | 20 58 | 0 24 | 18 31 | 4 58 | 18 12 | 18 27 | 26 48 | 5 22 | 5 59 |
| M17 | 2 5 | 22 52 | 4 58 | 9 55 | 1 2 | 2 11 | 8 22 | 24 21 | 2 1 | 21 20 | 0 51 | 19 25 | 0 57 | 12 28 | 0 47 | 20 58 | 0 24 | 18 31 | 4 58 | 18 10 | 18 26 | 26 48 | 5 23 | 5 58 |
| T 18 | 1 42 | 18 34 | 5 5 | 9 37 | 1 12 | 1 52 | 8 16 | 24 26 | 2 1 | 21 20 | 0 51 | 19 26 | 0 57 | 12 29 | 0 47 | 20 58 | 0 24 | 18 31 | 4 58 | 18 8 | 18 25 | 26 47 | 5 24 | 5 58 |
| W19 | 1 19 | 13 13 | 4 53 | 9 17 | 1 21 | 1 34 | 8 9 | 24 31 | 2 1 | 21 20 | 0 51 | 19 26 | 0 57 | 12 30 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 18 6 | 18 24 | 26 47 | 5 25 | 5 58 |
| T 20 | 0 55 | 7 14 | 4 23 | 8 52 | 1 29 | 1 15 | 8 1 | 24 36 | 2 0 | 21 20 | 0 51 | 19 27 | 0 57 | 12 31 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 18 4 | 18 23 | 26 47 | 5 27 | 5 58 |
| F 21 | 0 32 | 1 0 | 3 37 | 8 25 | 1 36 | 0 56 | 7 52 | 24 40 | 2 0 | 21 21 | 0 51 | 19 27 | 0 57 | 12 31 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 18 2 | 18 22 | 26 47 | 5 28 | 5 57 |
| S 22 | 0 8 | 5n 8 | 2 40 | 7 55 | 1 42 | 0 37 | 7 42 | 24 44 | 2 0 | 21 21 | 0 51 | 19 28 | 0 57 | 12 32 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 18 0 | 18 22 | 26 47 | 5 29 | 5 57 |
| S 23 | 0s15 | 10 54 | 1 36 | 7 22 | 1 46 | 0 19 | 7 33 | 24 48 | 2 0 | 21 21 | 0 51 | 19 28 | 0 57 | 12 33 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 17 59 | 18 21 | 26 47 | 5 30 | 5 57 |
| M24 | 0 39 | 16 3 | 0 28 | 6 47 | 1 49 | 0 1 | 7 22 | 24 52 | 2 0 | 21 21 | 0 51 | 19 29 | 0 57 | 12 33 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 17 58 | 18 20 | 26 46 | 5 31 | 5 57 |
| T 25 | 1 2 | 20 23 | 0n39 | 6 10 | 1 52 | 0n17 | 7 11 | 24 56 | 1 59 | 21 21 | 0 51 | 19 29 | 0 57 | 12 34 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 17 58 | 18 19 | 26 46 | 5 32 | 5 56 |
| W26 | 1 26 | 23 43 | 1 43 | 5 31 | 1 53 | 0 34 | 7 0 | 24 59 | 1 59 | 21 21 | 0 51 | 19 30 | 0 57 | 12 35 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 17 59 | 18 18 | 26 46 | 5 33 | 5 56 |
| T 27 | 1 49 | 25 57 | 2 42 | 4 51 | 1 54 | 0 50 | 6 48 | 25 2 | 1 59 | 21 21 | 0 52 | 19 30 | 0 57 | 12 35 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 17 59 | 18 18 | 26 46 | 5 34 | 5 56 |
| F 28 | 2 12 | 26 58 | 3 33 | 4 9 | 1 54 | 1 6 | 6 36 | 25 5 | 1 59 | 21 21 | 0 52 | 19 30 | 0 57 | 12 36 | 0 47 | 20 59 | 0 24 | 18 31 | 4 58 | 17 59 | 18 17 | 26 46 | 5 35 | 5 56 |
| S 29 | 2 36 | 26 44 | 4 14 | 3 26 | 1 53 | 1 21 | 6 24 | 25 8 | 1 58 | 21 21 | 0 52 | 19 31 | 0 57 | 12 36 | 0 47 | 20 59 | 0 24 | 18 30 | 4 58 | 17 59 | 18 16 | 26 45 | 5 36 | 5 55 |
| S 30 | 2s59 | 25n17 | 4n45 | 2n43 | 1n52 | 1n36 | 6s12 | 25s11 | 1s58 | 21n21 | 0s52 | 19s31 | 0s57 | 12s37 | 0s47 | 20s59 | 0n24 | 18n30 | 4s58 | 17n59 | 18n15 | 26n45 | 5s37 | 5n55 |

Julian Day Number = 2330528.5, Delta T = 30.60 sec
Ecliptic obliquity = 23°29'02, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'56, Lahiri = 19°13'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## OCTOBER 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 41 45 | 8♎30'19 | 9♌51 | 29♍15 | 11°R15 | 22♐14 | 11°R30 | 6°R51 | 28°R52 | 23°R50 | 0°R48 | 20°R41 | 21♉45 | 14♋48 | 0°R54 | M 1 |
| T 2 | 0 45 41 | 9°29'33 | 22° 3 | 1♎ 2 | 11♍12 | 22°56 | 11♊29 | 6♒50 | 28♒51 | 23♑50 | 0♋48 | 20♉36 | 21°42 | 14°55 | 0♓52 | T 2 |
| W 3 | 0 49 38 | 10°28'50 | 4♍29 | 2°49 | 11°D11 | 23°38 | 11°28 | 6°49 | 28°49 | 23°50 | 0°48 | 20°29 | 21°39 | 15° 2 | 0°50 | W 3 |
| T 4 | 0 53 34 | 11°28'08 | 17°11 | 4°35 | 11°13 | 24°21 | 11°28 | 6°48 | 28°48 | 23°50 | 0°48 | 20°22 | 21°36 | 15° 8 | 0°48 | T 4 |
| F 5 | 0 57 31 | 12°27'29 | 0♎10 | 6°21 | 11°17 | 25° 3 | 11°27 | 6°48 | 28°46 | 23°D50 | 0°48 | 20°15 | 21°33 | 15°15 | 0°46 | F 5 |
| S 6 | 1 1 28 | 13°26'52 | 13°26 | 8° 7 | 11°24 | 25°45 | 11°25 | 6°47 | 28°45 | 23°50 | 0°47 | 20°10 | 21°29 | 15°22 | 0°44 | S 6 |
| S 7 | 1 5 24 | 14°26'17 | 26°57 | 9°52 | 11°33 | 26°28 | 11°24 | 6°47 | 28°43 | 23°50 | 0°47 | 20° 6 | 21°26 | 15°28 | 0°42 | S 7 |
| M 8 | 1 9 21 | 15°25'44 | 10♏40 | 11°36 | 11°44 | 27°11 | 11°22 | 6°46 | 28°42 | 23°50 | 0°47 | 20° 4 | 21°23 | 15°35 | 0°40 | M 8 |
| T 9 | 1 13 17 | 16°25'13 | 24°34 | 13°20 | 11°57 | 27°54 | 11°20 | 6°46 | 28°40 | 23°50 | 0°47 | 20°D 4 | 21°20 | 15°42 | 0°39 | T 9 |
| W10 | 1 17 14 | 17°24'44 | 8♐35 | 15° 4 | 12°12 | 28°37 | 11°18 | 6°46 | 28°39 | 23°50 | 0°47 | 20° 5 | 21°17 | 15°48 | 0°37 | W10 |
| T 11 | 1 21 10 | 18°24'16 | 22°42 | 16°47 | 12°29 | 29°20 | 11°16 | 6°D46 | 28°38 | 23°50 | 0°46 | 20° 6 | 21°13 | 15°55 | 0°35 | T 11 |
| F 12 | 1 25 7 | 19°23'51 | 6♑51 | 18°29 | 12°48 | 0♑ 3 | 11°13 | 6°46 | 28°36 | 23°50 | 0°46 | 20° 7 | 21°10 | 16° 2 | 0°33 | F 12 |
| S 13 | 1 29 3 | 20°23'27 | 21° 2 | 20°11 | 13° 9 | 0°46 | 11°11 | 6°46 | 28°35 | 23°51 | 0°46 | 20°R 8 | 21° 7 | 16° 9 | 0°32 | S 13 |
| S 14 | 1 33 0 | 21°23'05 | 5♒12 | 21°52 | 13°32 | 1°29 | 11° 8 | 6°47 | 28°34 | 23°51 | 0°46 | 20° 7 | 21° 4 | 16°15 | 0°30 | S 14 |
| M15 | 1 36 57 | 22°22'45 | 19°19 | 23°32 | 13°57 | 2°12 | 11° 5 | 6°47 | 28°33 | 23°51 | 0°45 | 20° 5 | 21° 1 | 16°22 | 0°29 | M15 |
| T 16 | 1 40 53 | 23°22'26 | 3♓22 | 25°12 | 14°23 | 2°56 | 11° 2 | 6°48 | 28°32 | 23°52 | 0°45 | 20° 2 | 20°58 | 16°29 | 0°27 | T 16 |
| W17 | 1 44 50 | 24°22'09 | 17°17 | 26°51 | 14°51 | 3°40 | 10°58 | 6°48 | 28°31 | 23°52 | 0°45 | 19°58 | 20°54 | 16°35 | 0°26 | W17 |
| T 18 | 1 48 46 | 25°21'53 | 1♈ 1 | 28°30 | 15°20 | 4°23 | 10°55 | 6°49 | 28°30 | 23°52 | 0°44 | 19°54 | 20°51 | 16°42 | 0°25 | T 18 |
| F 19 | 1 52 43 | 26°21'40 | 14°31 | 0♏ 8 | 15°52 | 5° 7 | 10°51 | 6°50 | 28°29 | 23°53 | 0°44 | 19°51 | 20°48 | 16°49 | 0°23 | F 19 |
| S 20 | 1 56 39 | 27°21'29 | 27°46 | 1°45 | 16°24 | 5°51 | 10°47 | 6°51 | 28°28 | 23°53 | 0°43 | 19°48 | 20°45 | 16°55 | 0°22 | S 20 |
| S 21 | 2 0 36 | 28°21'19 | 10♉44 | 3°22 | 16°58 | 6°35 | 10°43 | 6°52 | 28°27 | 23°54 | 0°43 | 19°47 | 20°42 | 17° 2 | 0°21 | S 21 |
| M22 | 2 4 32 | 29°21'12 | 23°26 | 4°58 | 17°34 | 7°18 | 10°38 | 6°53 | 28°26 | 23°54 | 0°42 | 19°D47 | 20°39 | 17° 9 | 0°20 | M22 |
| T 23 | 2 8 29 | 0♏21'07 | 5♊51 | 6°34 | 18°11 | 8° 2 | 10°34 | 6°54 | 28°26 | 23°55 | 0°42 | 19°48 | 20°35 | 17°16 | 0°19 | T 23 |
| W24 | 2 12 25 | 1°21'03 | 18° 2 | 8° 9 | 18°49 | 8°47 | 10°29 | 6°55 | 28°25 | 23°56 | 0°41 | 19°49 | 20°32 | 17°22 | 0°18 | W24 |
| T 25 | 2 16 22 | 2°21'02 | 0♋ 3 | 9°44 | 19°28 | 9°31 | 10°24 | 6°57 | 28°24 | 23°56 | 0°41 | 19°51 | 20°29 | 17°29 | 0°17 | T 25 |
| F 26 | 2 20 19 | 3°21'04 | 11°57 | 11°18 | 20° 9 | 10°15 | 10°19 | 6°58 | 28°24 | 23°57 | 0°40 | 19°52 | 20°26 | 17°36 | 0°16 | F 26 |
| S 27 | 2 24 15 | 4°21'07 | 23°48 | 12°52 | 20°51 | 10°59 | 10°14 | 7° 0 | 28°23 | 23°58 | 0°40 | 19°53 | 20°23 | 17°42 | 0°15 | S 27 |
| S 28 | 2 28 12 | 5°21'12 | 5♌41 | 14°26 | 21°33 | 11°44 | 10° 8 | 7° 2 | 28°23 | 23°58 | 0°39 | 19°R53 | 20°19 | 17°49 | 0°14 | S 28 |
| M29 | 2 32 8 | 6°21'20 | 17°41 | 15°59 | 22°17 | 12°28 | 10° 3 | 7° 3 | 28°22 | 23°59 | 0°39 | 19°53 | 20°16 | 17°56 | 0°13 | M29 |
| T 30 | 2 36 5 | 7°21'29 | 29°53 | 17°31 | 23° 2 | 13°13 | 9°57 | 7° 5 | 28°22 | 24° 0 | 0°38 | 19°52 | 20°13 | 18° 2 | 0°13 | T 30 |
| W31 | 2 40 1 | 8♏21'41 | 12♍20 | 19♏ 4 | 23♍48 | 13♑57 | 9♊51 | 7♒ 7 | 28♒21 | 24♑ 1 | 0♋37 | 19♉51 | 20♉10 | 18♋ 9 | 0♓12 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3s23 | 22n41 | 5n 4 | 1n58 | 1n49 | 1n49 | 5s59 | 25s13 | 1s58 | 21n21 | 0s52 | 19s31 | 0s57 | 12s37 | 0s47 | 20s59 | 0n24 | 18n30 | 4s59 | 17n58 | 18n14 | 26n45 | 5s38 | 5n55 |
| T 2 | 3 46 | 19 3 | 5 9 | 1 13 | 1 47 | 2 2 | 5 47 | 25 15 | 1 57 | 21 21 | 0 52 | 19 31 | 0 57 | 12 38 | 0 47 | 21 0 | 0 24 | 18 30 | 4 59 | 17 56 | 18 13 | 26 45 | 5 39 | 5 55 |
| W 3 | 4 9 | 14 32 | 5 0 | 0 28 | 1 44 | 2 14 | 5 34 | 25 17 | 1 57 | 21 21 | 0 52 | 19 31 | 0 57 | 12 39 | 0 47 | 21 0 | 0 24 | 18 30 | 4 59 | 17 54 | 18 13 | 26 45 | 5 40 | 5 54 |
| T 4 | 4 33 | 9 19 | 4 37 | 0s18 | 1 40 | 2 25 | 5 21 | 25 18 | 1 57 | 21 21 | 0 52 | 19 32 | 0 57 | 12 39 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 52 | 18 12 | 26 44 | 5 41 | 5 54 |
| F 5 | 4 56 | 3 34 | 3 58 | 1 4 | 1 36 | 2 35 | 5 8 | 25 20 | 1 56 | 21 20 | 0 52 | 19 32 | 0 57 | 12 40 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 51 | 18 11 | 26 44 | 5 42 | 5 54 |
| S 6 | 5 19 | 2s27 | 3 6 | 1 49 | 1 31 | 2 45 | 4 56 | 25 21 | 1 56 | 21 20 | 0 52 | 19 32 | 0 57 | 12 40 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 49 | 18 10 | 26 44 | 5 43 | 5 53 |
| S 7 | 5 42 | 8 30 | 2 3 | 2 35 | 1 27 | 2 53 | 4 43 | 25 22 | 1 56 | 21 20 | 0 52 | 19 32 | 0 57 | 12 41 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 48 | 18 9 | 26 43 | 5 44 | 5 53 |
| M 8 | 6 5 | 14 15 | 0 51 | 3 21 | 1 21 | 3 1 | 4 30 | 25 23 | 1 55 | 21 20 | 0 52 | 19 32 | 0 57 | 12 41 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 47 | 18 8 | 26 43 | 5 45 | 5 53 |
| T 9 | 6 28 | 19 21 | 0s25 | 4 6 | 1 16 | 3 7 | 4 18 | 25 23 | 1 55 | 21 19 | 0 52 | 19 32 | 0 57 | 12 41 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 47 | 18 8 | 26 43 | 5 46 | 5 52 |
| W10 | 6 51 | 23 25 | 1 40 | 4 52 | 1 11 | 3 13 | 4 5 | 25 23 | 1 55 | 21 19 | 0 52 | 19 32 | 0 57 | 12 42 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 48 | 18 7 | 26 43 | 5 47 | 5 52 |
| T 11 | 7 14 | 26 6 | 2 49 | 5 37 | 1 5 | 3 18 | 3 53 | 25 23 | 1 54 | 21 19 | 0 52 | 19 32 | 0 57 | 12 42 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 48 | 18 6 | 26 42 | 5 48 | 5 52 |
| F 12 | 7 36 | 27 6 | 3 48 | 6 21 | 0 59 | 3 22 | 3 41 | 25 23 | 1 54 | 21 18 | 0 52 | 19 32 | 0 57 | 12 43 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 48 | 18 5 | 26 42 | 5 49 | 5 51 |
| S 13 | 7 59 | 26 21 | 4 34 | 7 5 | 0 53 | 3 25 | 3 29 | 25 22 | 1 53 | 21 18 | 0 52 | 19 32 | 0 57 | 12 43 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 49 | 18 4 | 26 42 | 5 50 | 5 51 |
| S 14 | 8 21 | 23 54 | 5 3 | 7 49 | 0 46 | 3 27 | 3 17 | 25 22 | 1 53 | 21 17 | 0 52 | 19 32 | 0 57 | 12 44 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 48 | 18 3 | 26 41 | 5 50 | 5 51 |
| M15 | 8 44 | 20 0 | 5 13 | 8 32 | 0 40 | 3 29 | 3 5 | 25 21 | 1 53 | 21 17 | 0 52 | 19 32 | 0 57 | 12 44 | 0 47 | 21 0 | 0 23 | 18 30 | 4 59 | 17 48 | 18 3 | 26 41 | 5 51 | 5 50 |
| T 16 | 9 6 | 15 1 | 5 5 | 9 15 | 0 33 | 3 29 | 2 54 | 25 19 | 1 52 | 21 17 | 0 52 | 19 32 | 0 57 | 12 44 | 0 47 | 21 0 | 0 23 | 18 29 | 4 59 | 17 47 | 18 2 | 26 41 | 5 52 | 5 50 |
| W17 | 9 28 | 9 18 | 4 39 | 9 57 | 0 27 | 3 29 | 2 42 | 25 18 | 1 52 | 21 16 | 0 52 | 19 31 | 0 57 | 12 45 | 0 47 | 20 59 | 0 23 | 18 29 | 4 59 | 17 46 | 18 1 | 26 40 | 5 53 | 5 50 |
| T 18 | 9 50 | 3 13 | 3 57 | 10 39 | 0 20 | 3 28 | 2 31 | 25 16 | 1 51 | 21 16 | 0 52 | 19 31 | 0 57 | 12 45 | 0 47 | 20 59 | 0 23 | 18 29 | 5 0 | 17 45 | 18 0 | 26 40 | 5 54 | 5 49 |
| F 19 | 10 12 | 2n56 | 3 2 | 11 20 | 0 13 | 3 26 | 2 20 | 25 14 | 1 51 | 21 15 | 0 52 | 19 31 | 0 57 | 12 45 | 0 47 | 20 59 | 0 23 | 18 29 | 5 0 | 17 44 | 17 59 | 26 40 | 5 54 | 5 49 |
| S 20 | 10 33 | 8 52 | 1 58 | 12 0 | 0 7 | 3 23 | 2 10 | 25 11 | 1 50 | 21 14 | 0 52 | 19 31 | 0 57 | 12 45 | 0 47 | 20 59 | 0 23 | 18 29 | 5 0 | 17 43 | 17 58 | 26 39 | 5 55 | 5 49 |
| S 21 | 10 55 | 14 17 | 0 50 | 12 40 | 0s 0 | 3 20 | 1 59 | 25 9 | 1 50 | 21 14 | 0 52 | 19 30 | 0 57 | 12 46 | 0 47 | 20 59 | 0 23 | 18 29 | 5 0 | 17 43 | 17 58 | 26 39 | 5 56 | 5 48 |
| M22 | 11 16 | 18 59 | 0n20 | 13 18 | 0 7 | 3 15 | 1 49 | 25 6 | 1 49 | 21 13 | 0 52 | 19 30 | 0 57 | 12 46 | 0 47 | 20 59 | 0 23 | 18 29 | 5 0 | 17 43 | 17 57 | 26 38 | 5 57 | 5 48 |
| T 23 | 11 37 | 22 45 | 1 28 | 13 57 | 0 13 | 3 10 | 1 39 | 25 3 | 1 49 | 21 13 | 0 52 | 19 30 | 0 57 | 12 46 | 0 47 | 20 59 | 0 23 | 18 29 | 5 0 | 17 43 | 17 56 | 26 38 | 5 57 | 5 48 |
| W24 | 11 58 | 25 26 | 2 30 | 14 34 | 0 20 | 3 4 | 1 29 | 25 0 | 1 48 | 21 12 | 0 52 | 19 30 | 0 57 | 12 46 | 0 46 | 20 59 | 0 23 | 18 29 | 5 0 | 17 43 | 17 55 | 26 38 | 5 58 | 5 47 |
| T 25 | 12 19 | 26 53 | 3 24 | 15 11 | 0 27 | 2 58 | 1 19 | 24 56 | 1 48 | 21 11 | 0 52 | 19 29 | 0 57 | 12 47 | 0 46 | 20 59 | 0 23 | 18 29 | 5 0 | 17 44 | 17 54 | 26 37 | 5 59 | 5 47 |
| F 26 | 12 39 | 27 5 | 4 10 | 15 47 | 0 34 | 2 51 | 1 9 | 24 52 | 1 47 | 21 10 | 0 52 | 19 29 | 0 57 | 12 47 | 0 46 | 20 59 | 0 23 | 18 29 | 5 0 | 17 44 | 17 53 | 26 37 | 5 59 | 5 46 |
| S 27 | 13 0 | 26 3 | 4 44 | 16 22 | 0 40 | 2 43 | 1 0 | 24 48 | 1 47 | 21 10 | 0 52 | 19 28 | 0 57 | 12 47 | 0 46 | 20 59 | 0 23 | 18 29 | 5 0 | 17 45 | 17 53 | 26 36 | 6 0 | 5 46 |
| S 28 | 13 20 | 23 50 | 5 7 | 16 56 | 0 47 | 2 34 | 0 51 | 24 44 | 1 46 | 21 9 | 0 52 | 19 28 | 0 57 | 12 47 | 0 46 | 20 59 | 0 23 | 18 29 | 5 0 | 17 45 | 17 52 | 26 36 | 6 1 | 5 46 |
| M29 | 13 40 | 20 34 | 5 16 | 17 30 | 0 53 | 2 25 | 0 42 | 24 39 | 1 46 | 21 8 | 0 52 | 19 27 | 0 57 | 12 47 | 0 46 | 20 59 | 0 23 | 18 29 | 5 0 | 17 45 | 17 51 | 26 35 | 6 1 | 5 45 |
| T 30 | 14 0 | 16 23 | 5 12 | 18 3 | 0 59 | 2 15 | 0 34 | 24 34 | 1 45 | 21 7 | 0 52 | 19 27 | 0 57 | 12 47 | 0 46 | 20 58 | 0 23 | 18 29 | 5 0 | 17 44 | 17 50 | 26 35 | 6 2 | 5 45 |
| W31 | 14s19 | 11n27 | 4n52 | 18s34 | 1s 6 | 2n 5 | 0s25 | 24s29 | 1s45 | 21n 6 | 0s52 | 19s26 | 0s57 | 12s47 | 0s46 | 20s58 | 0n23 | 18n29 | 5s 0 | 17n44 | 17n49 | 26n35 | 6s 3 | 5n45 |

Julian Day Number = 2330558.5, Delta T = 30.55 sec
Ecliptic obliquity = 23°29'03, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'00, Lahiri = 19°14'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## NOVEMBER 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 43 58 | 9♏21'55 | 25♍ 6 | 20♏36 | 24♍35 | 14♑42 | 9°R45 | 7♒ 9 | 28°R21 | 24♑ 2 | 0°R37 | 19°R49 | 20♉ 7 | 18♋16 | 0°R12 | T 1 |
| F 2 | 2 47 54 | 10°22'10 | 8♎14 | 22° 7 | 25°23 | 15°27 | 9♊39 | 7°12 | 28♒21 | 24° 3 | 0♋36 | 19♉48 | 20° 4 | 18°23 | 0♓11 | F 2 |
| S 3 | 2 51 51 | 11°22'28 | 21°43 | 23°38 | 26°12 | 16°11 | 9°33 | 7°14 | 28°21 | 24° 4 | 0°35 | 19°47 | 20° 0 | 18°29 | 0°11 | S 3 |
| S 4 | 2 55 48 | 12°22'47 | 5♏33 | 25° 9 | 27° 1 | 16°56 | 9°26 | 7°16 | 28°20 | 24° 5 | 0°34 | 19°46 | 19°57 | 18°36 | 0°10 | S 4 |
| M 5 | 2 59 44 | 13°23'09 | 19°41 | 26°39 | 27°52 | 17°41 | 9°20 | 7°19 | 28°20 | 24° 6 | 0°34 | 19°D46 | 19°54 | 18°43 | 0°10 | M 5 |
| T 6 | 3 3 41 | 14°23'32 | 4♐ 3 | 28° 9 | 28°43 | 18°26 | 9°13 | 7°21 | 28°20 | 24° 7 | 0°33 | 19°46 | 19°51 | 18°49 | 0°10 | T 6 |
| W 7 | 3 7 37 | 15°23'56 | 18°33 | 29°39 | 29°35 | 19°11 | 9° 6 | 7°24 | 28°D20 | 24° 8 | 0°32 | 19°46 | 19°48 | 18°56 | 0°10 | W 7 |
| T 8 | 3 11 34 | 16°24'23 | 3♑ 5 | 1♐ 8 | 0♎28 | 19°56 | 8°59 | 7°27 | 28°20 | 24° 9 | 0°31 | 19°47 | 19°45 | 19° 3 | 0° 9 | T 8 |
| F 9 | 3 15 30 | 17°24'50 | 17°35 | 2°37 | 1°21 | 20°41 | 8°52 | 7°30 | 28°20 | 24°10 | 0°30 | 19°47 | 19°41 | 19° 9 | 0°D 9 | F 9 |
| S 10 | 3 19 27 | 18°25'19 | 1♒58 | 4° 5 | 2°15 | 21°27 | 8°45 | 7°33 | 28°20 | 24°11 | 0°30 | 19°47 | 19°38 | 19°16 | 0° 9 | S 10 |
| S 11 | 3 23 24 | 19°25'49 | 16°10 | 5°33 | 3°10 | 22°12 | 8°38 | 7°36 | 28°21 | 24°12 | 0°29 | 19°47 | 19°35 | 19°23 | 0° 9 | S 11 |
| M12 | 3 27 20 | 20°26'21 | 0♓10 | 7° 0 | 4° 5 | 22°57 | 8°30 | 7°39 | 28°21 | 24°13 | 0°28 | 19°47 | 19°32 | 19°30 | 0°10 | M12 |
| T 13 | 3 31 17 | 21°26'53 | 13°56 | 8°27 | 5° 1 | 23°43 | 8°23 | 7°42 | 28°21 | 24°15 | 0°27 | 19°47 | 19°29 | 19°36 | 0°10 | T 13 |
| W14 | 3 35 13 | 22°27'27 | 27°28 | 9°53 | 5°57 | 24°28 | 8°15 | 7°45 | 28°21 | 24°16 | 0°26 | 19°47 | 19°25 | 19°43 | 0°10 | W14 |
| T 15 | 3 39 10 | 23°28'02 | 10♈46 | 11°19 | 6°54 | 25°13 | 8° 7 | 7°49 | 28°22 | 24°17 | 0°25 | 19°48 | 19°22 | 19°50 | 0°10 | T 15 |
| F 16 | 3 43 6 | 24°28'39 | 23°50 | 12°44 | 7°52 | 25°59 | 8° 0 | 7°52 | 28°22 | 24°19 | 0°24 | 19°48 | 19°19 | 19°56 | 0°11 | F 16 |
| S 17 | 3 47 3 | 25°29'16 | 6♉41 | 14° 7 | 8°50 | 26°44 | 7°52 | 7°56 | 28°23 | 24°20 | 0°23 | 19°49 | 19°16 | 20° 3 | 0°11 | S 17 |
| S 18 | 3 50 59 | 26°29'56 | 19°20 | 15°30 | 9°49 | 27°30 | 7°44 | 8° 0 | 28°23 | 24°21 | 0°22 | 19°R49 | 19°13 | 20°10 | 0°12 | S 18 |
| M19 | 3 54 56 | 27°30'36 | 1♊46 | 16°52 | 10°48 | 28°15 | 7°36 | 8° 3 | 28°24 | 24°23 | 0°21 | 19°49 | 19°10 | 20°17 | 0°12 | M19 |
| T 20 | 3 58 52 | 28°31'18 | 14° 2 | 18°13 | 11°47 | 29° 1 | 7°28 | 8° 7 | 28°25 | 24°24 | 0°20 | 19°48 | 19° 6 | 20°23 | 0°13 | T 20 |
| W21 | 4 2 49 | 29°32'01 | 26° 8 | 19°33 | 12°48 | 29°47 | 7°20 | 8°11 | 28°25 | 24°26 | 0°19 | 19°47 | 19° 3 | 20°30 | 0°13 | W21 |
| T 22 | 4 6 46 | 0♐32'46 | 8♋ 6 | 20°50 | 13°48 | 0♒32 | 7°12 | 8°15 | 28°26 | 24°27 | 0°18 | 19°45 | 19° 0 | 20°37 | 0°14 | T 22 |
| F 23 | 4 10 42 | 1°33'32 | 19°59 | 22° 6 | 14°49 | 1°18 | 7° 4 | 8°19 | 28°27 | 24°29 | 0°17 | 19°44 | 18°57 | 20°43 | 0°15 | F 23 |
| S 24 | 4 14 39 | 2°34'20 | 1♌49 | 23°20 | 15°51 | 2° 4 | 6°56 | 8°23 | 28°28 | 24°30 | 0°16 | 19°42 | 18°54 | 20°50 | 0°16 | S 24 |
| S 25 | 4 18 35 | 3°35'09 | 13°42 | 24°32 | 16°52 | 2°50 | 6°48 | 8°28 | 28°29 | 24°32 | 0°15 | 19°40 | 18°51 | 20°57 | 0°17 | S 25 |
| M26 | 4 22 32 | 4°36'00 | 25°40 | 25°41 | 17°55 | 3°35 | 6°40 | 8°32 | 28°30 | 24°34 | 0°14 | 19°39 | 18°47 | 21° 3 | 0°18 | M26 |
| T 27 | 4 26 28 | 5°36'52 | 7♍48 | 26°47 | 18°57 | 4°21 | 6°31 | 8°37 | 28°31 | 24°35 | 0°13 | 19°D39 | 18°44 | 21°10 | 0°19 | T 27 |
| W28 | 4 30 25 | 6°37'45 | 20°11 | 27°49 | 20° 0 | 5° 7 | 6°23 | 8°41 | 28°32 | 24°37 | 0°12 | 19°40 | 18°41 | 21°17 | 0°20 | W28 |
| T 29 | 4 34 22 | 7°38'39 | 2♎53 | 28°47 | 21° 4 | 5°53 | 6°15 | 8°46 | 28°33 | 24°38 | 0°11 | 19°41 | 18°38 | 21°24 | 0°21 | T 29 |
| F 30 | 4 38 18 | 8♐39'35 | 15♎58 | 29♐40 | 22♎ 7 | 6♒39 | 6♊ 7 | 8♒50 | 28♒34 | 24♑40 | 0♋10 | 19♉42 | 18♉35 | 21♋30 | 0♓22 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s38 | 5n54 | 4n19 | 19s 5 | 1s12 | 1n54 | 0s17 | 24s24 | 1s44 | 21n 6 | 0s52 | 19s26 | 0s57 | 12s48 | 0s46 | 20s58 | 0n23 | 18n29 | 5s 0 | 17n44 | 17n48 | 26n34 | 6s 3 | 5n44 |
| F 2 | 14 57 | 0s 3 | 3 30 | 19 35 | 1 18 | 1 42 | 0 9 | 24 18 | 1 43 | 21 5 | 0 52 | 19 25 | 0 57 | 12 48 | 0 46 | 20 58 | 0 23 | 18 29 | 5 0 | 17 43 | 17 47 | 26 34 | 6 4 | 5 44 |
| S 3 | 15 16 | 6 10 | 2 29 | 20 4 | 1 24 | 1 30 | 0 1 | 24 12 | 1 43 | 21 4 | 0 52 | 19 25 | 0 57 | 12 48 | 0 46 | 20 58 | 0 23 | 18 29 | 5 0 | 17 43 | 17 47 | 26 33 | 6 4 | 5 43 |
| S 4 | 15 35 | 12 10 | 1 18 | 20 32 | 1 29 | 1 17 | 0n 6 | 24 6 | 1 42 | 21 3 | 0 52 | 19 24 | 0 57 | 12 48 | 0 46 | 20 58 | 0 23 | 18 29 | 5 0 | 17 43 | 17 46 | 26 33 | 6 5 | 5 43 |
| M 5 | 15 53 | 17 41 | 0 0 | 20 59 | 1 35 | 1 4 | 0 14 | 23 59 | 1 42 | 21 2 | 0 52 | 19 23 | 0 57 | 12 48 | 0 46 | 20 58 | 0 23 | 18 29 | 5 0 | 17 43 | 17 45 | 26 32 | 6 5 | 5 43 |
| T 6 | 16 11 | 22 17 | 1s18 | 21 25 | 1 40 | 0 50 | 0 21 | 23 53 | 1 41 | 21 1 | 0 52 | 19 23 | 0 56 | 12 48 | 0 46 | 20 57 | 0 23 | 18 29 | 5 0 | 17 43 | 17 44 | 26 32 | 6 6 | 5 42 |
| W 7 | 16 29 | 25 32 | 2 33 | 21 50 | 1 46 | 0 35 | 0 28 | 23 46 | 1 40 | 21 0 | 0 52 | 19 22 | 0 56 | 12 48 | 0 46 | 20 57 | 0 23 | 18 29 | 5 0 | 17 43 | 17 43 | 26 31 | 6 6 | 5 42 |
| T 8 | 16 46 | 27 5 | 3 38 | 22 14 | 1 51 | 0 21 | 0 35 | 23 39 | 1 40 | 20 59 | 0 52 | 19 21 | 0 56 | 12 48 | 0 46 | 20 57 | 0 23 | 18 29 | 5 0 | 17 43 | 17 42 | 26 31 | 6 6 | 5 41 |
| F 9 | 17 4 | 26 46 | 4 29 | 22 36 | 1 55 | 0 5 | 0 41 | 23 31 | 1 39 | 20 58 | 0 52 | 19 20 | 0 56 | 12 47 | 0 46 | 20 57 | 0 23 | 18 29 | 5 0 | 17 43 | 17 41 | 26 30 | 6 7 | 5 41 |
| S 10 | 17 21 | 24 40 | 5 2 | 22 58 | 2 0 | 0s10 | 0 47 | 23 24 | 1 38 | 20 57 | 0 52 | 19 20 | 0 56 | 12 47 | 0 46 | 20 57 | 0 23 | 18 28 | 5 1 | 17 43 | 17 41 | 26 30 | 6 7 | 5 41 |
| S 11 | 17 37 | 21 3 | 5 17 | 23 18 | 2 4 | 0 26 | 0 54 | 23 16 | 1 38 | 20 56 | 0 52 | 19 19 | 0 56 | 12 47 | 0 46 | 20 57 | 0 23 | 18 28 | 5 1 | 17 43 | 17 40 | 26 29 | 6 7 | 5 40 |
| M12 | 17 53 | 16 18 | 5 12 | 23 38 | 2 8 | 0 43 | 1 0 | 23 7 | 1 37 | 20 55 | 0 52 | 19 18 | 0 56 | 12 47 | 0 46 | 20 56 | 0 23 | 18 28 | 5 1 | 17 43 | 17 39 | 26 28 | 6 8 | 5 40 |
| T 13 | 18 9 | 10 47 | 4 50 | 23 56 | 2 12 | 1 0 | 1 5 | 22 59 | 1 37 | 20 54 | 0 52 | 19 17 | 0 56 | 12 47 | 0 46 | 20 56 | 0 23 | 18 28 | 5 1 | 17 43 | 17 38 | 26 28 | 6 8 | 5 39 |
| W14 | 18 25 | 4 51 | 4 11 | 24 12 | 2 15 | 1 17 | 1 11 | 22 50 | 1 36 | 20 52 | 0 52 | 19 16 | 0 56 | 12 47 | 0 46 | 20 56 | 0 23 | 18 28 | 5 1 | 17 43 | 17 37 | 26 27 | 6 8 | 5 39 |
| T 15 | 18 40 | 1n12 | 3 20 | 24 28 | 2 18 | 1 35 | 1 16 | 22 41 | 1 35 | 20 51 | 0 52 | 19 15 | 0 56 | 12 47 | 0 46 | 20 56 | 0 22 | 18 28 | 5 1 | 17 43 | 17 36 | 26 27 | 6 9 | 5 39 |
| F 16 | 18 55 | 7 7 | 2 19 | 24 42 | 2 21 | 1 53 | 1 22 | 22 32 | 1 35 | 20 50 | 0 51 | 19 14 | 0 56 | 12 47 | 0 46 | 20 56 | 0 22 | 18 28 | 5 1 | 17 43 | 17 35 | 26 26 | 6 9 | 5 38 |
| S 17 | 19 10 | 12 38 | 1 12 | 24 55 | 2 23 | 2 11 | 1 27 | 22 23 | 1 34 | 20 49 | 0 51 | 19 13 | 0 56 | 12 46 | 0 46 | 20 55 | 0 22 | 18 28 | 5 1 | 17 43 | 17 34 | 26 26 | 6 9 | 5 38 |
| S 18 | 19 24 | 17 33 | 0 3 | 25 6 | 2 25 | 2 30 | 1 31 | 22 13 | 1 33 | 20 48 | 0 51 | 19 13 | 0 56 | 12 46 | 0 46 | 20 55 | 0 22 | 18 28 | 5 1 | 17 43 | 17 34 | 26 25 | 6 9 | 5 38 |
| M19 | 19 38 | 21 38 | 1n 6 | 25 16 | 2 27 | 2 48 | 1 36 | 22 3 | 1 32 | 20 47 | 0 51 | 19 12 | 0 56 | 12 46 | 0 46 | 20 55 | 0 22 | 18 28 | 5 1 | 17 43 | 17 33 | 26 24 | 6 10 | 5 37 |
| T 20 | 19 52 | 24 41 | 2 10 | 25 25 | 2 28 | 3 8 | 1 41 | 21 53 | 1 32 | 20 45 | 0 51 | 19 11 | 0 56 | 12 46 | 0 46 | 20 55 | 0 22 | 18 28 | 5 1 | 17 43 | 17 32 | 26 24 | 6 10 | 5 37 |
| W21 | 20 5 | 26 33 | 3 8 | 25 32 | 2 28 | 3 27 | 1 45 | 21 43 | 1 31 | 20 44 | 0 51 | 19 9 | 0 56 | 12 45 | 0 45 | 20 54 | 0 22 | 18 28 | 5 1 | 17 43 | 17 31 | 26 23 | 6 10 | 5 36 |
| T 22 | 20 18 | 27 10 | 3 57 | 25 38 | 2 28 | 3 47 | 1 49 | 21 33 | 1 30 | 20 43 | 0 51 | 19 8 | 0 56 | 12 45 | 0 45 | 20 54 | 0 22 | 18 28 | 5 1 | 17 42 | 17 30 | 26 23 | 6 10 | 5 36 |
| F 23 | 20 31 | 26 31 | 4 35 | 25 42 | 2 28 | 4 7 | 1 53 | 21 22 | 1 30 | 20 42 | 0 51 | 19 7 | 0 56 | 12 45 | 0 45 | 20 54 | 0 22 | 18 28 | 5 1 | 17 42 | 17 29 | 26 22 | 6 10 | 5 36 |
| S 24 | 20 43 | 24 40 | 5 1 | 25 45 | 2 26 | 4 27 | 1 57 | 21 11 | 1 29 | 20 41 | 0 51 | 19 6 | 0 56 | 12 44 | 0 45 | 20 54 | 0 22 | 18 28 | 5 1 | 17 42 | 17 28 | 26 21 | 6 10 | 5 35 |
| S 25 | 20 55 | 21 45 | 5 14 | 25 46 | 2 24 | 4 47 | 2 0 | 21 0 | 1 28 | 20 39 | 0 51 | 19 5 | 0 56 | 12 44 | 0 45 | 20 53 | 0 22 | 18 28 | 5 1 | 17 41 | 17 28 | 26 21 | 6 10 | 5 35 |
| M26 | 21 6 | 17 55 | 5 14 | 25 46 | 2 22 | 5 8 | 2 4 | 20 48 | 1 27 | 20 38 | 0 50 | 19 4 | 0 56 | 12 44 | 0 45 | 20 53 | 0 22 | 18 28 | 5 1 | 17 41 | 17 27 | 26 20 | 6 10 | 5 34 |
| T 27 | 21 17 | 13 18 | 5 0 | 25 45 | 2 18 | 5 29 | 2 7 | 20 37 | 1 27 | 20 37 | 0 50 | 19 3 | 0 56 | 12 43 | 0 45 | 20 53 | 0 22 | 18 28 | 5 1 | 17 41 | 17 26 | 26 19 | 6 10 | 5 34 |
| W28 | 21 27 | 8 4 | 4 32 | 25 41 | 2 14 | 5 50 | 2 10 | 20 25 | 1 26 | 20 36 | 0 50 | 19 2 | 0 56 | 12 43 | 0 45 | 20 53 | 0 22 | 18 28 | 5 1 | 17 41 | 17 25 | 26 19 | 6 10 | 5 34 |
| T 29 | 21 38 | 2 23 | 3 51 | 25 37 | 2 8 | 6 11 | 2 13 | 20 13 | 1 25 | 20 34 | 0 50 | 19 0 | 0 56 | 12 42 | 0 45 | 20 52 | 0 22 | 18 28 | 5 1 | 17 41 | 17 24 | 26 18 | 6 10 | 5 33 |
| F 30 | 21s47 | 3s36 | 2n56 | 25s31 | 2s 2 | 6s32 | 2n16 | 20s 1 | 1s24 | 20n33 | 0s50 | 18s59 | 0s56 | 12s42 | 0s45 | 20s52 | 0n22 | 18n28 | 5s 1 | 17n42 | 17n23 | 26n17 | 6s10 | 5n33 |

Julian Day Number = 2330589.5, Delta T = 30.49 sec
Ecliptic obliquity = 23°29'03, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'04, Lahiri = 19°14'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1668
# geocentric

## DECEMBER 1668 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 42 15 | 9♐40'33 | 29♎29 | 0♑28 | 23♎11 | 7♒25 | 5°R59 | 8♒55 | 28♒35 | 24♑42 | 0°R 9 | 19♉44 | 18♉31 | 21♋37 | 0♓23 | S 1 |
| S 2 | 4 46 11 | 10°41'31 | 13♏26 | 1°10 | 24°16 | 8°11 | 5♊50 | 9° 0 | 28°36 | 24°44 | 0♋ 8 | 19°R44 | 18°28 | 21°44 | 0°25 | S 2 |
| M 3 | 4 50 8 | 11°42'31 | 27°48 | 1°45 | 25°20 | 8°57 | 5°42 | 9° 5 | 28°38 | 24°45 | 0° 6 | 19°44 | 18°25 | 21°50 | 0°26 | M 3 |
| T 4 | 4 54 4 | 12°43'31 | 12♐31 | 2°13 | 26°25 | 9°43 | 5°34 | 9°10 | 28°39 | 24°47 | 0° 5 | 19°43 | 18°22 | 21°57 | 0°28 | T 4 |
| W 5 | 4 58 1 | 13°44'33 | 27°26 | 2°32 | 27°30 | 10°29 | 5°26 | 9°15 | 28°40 | 24°49 | 0° 4 | 19°41 | 18°19 | 22° 4 | 0°29 | W 5 |
| T 6 | 5 1 57 | 14°45'36 | 12♑27 | 2°R41 | 28°36 | 11°15 | 5°18 | 9°20 | 28°42 | 24°51 | 0° 3 | 19°37 | 18°16 | 22°11 | 0°31 | T 6 |
| F 7 | 5 5 54 | 15°46'39 | 27°24 | 2°40 | 29°42 | 12° 1 | 5°10 | 9°25 | 28°43 | 24°53 | 0° 2 | 19°34 | 18°12 | 22°17 | 0°32 | F 7 |
| S 8 | 5 9 51 | 16°47'43 | 12♒ 9 | 2°29 | 0♏48 | 12°47 | 5° 2 | 9°30 | 28°45 | 24°55 | 0° 1 | 19°30 | 18° 9 | 22°24 | 0°34 | S 8 |
| S 9 | 5 13 47 | 17°48'47 | 26°36 | 2° 6 | 1°54 | 13°33 | 4°55 | 9°35 | 28°47 | 24°56 | 29♊59 | 19°27 | 18° 6 | 22°31 | 0°36 | S 9 |
| M10 | 5 17 44 | 18°49'51 | 10♓41 | 1°31 | 3° 1 | 14°19 | 4°47 | 9°41 | 28°48 | 24°58 | 29°58 | 19°26 | 18° 3 | 22°37 | 0°37 | M10 |
| T 11 | 5 21 40 | 19°50'56 | 24°24 | 0°45 | 4° 7 | 15° 5 | 4°39 | 9°46 | 28°50 | 25° 0 | 29°57 | 19°D26 | 18° 0 | 22°44 | 0°39 | T 11 |
| W12 | 5 25 37 | 20°52'01 | 7♈45 | 29♐48 | 5°14 | 15°51 | 4°32 | 9°52 | 28°52 | 25° 2 | 29°56 | 19°27 | 17°57 | 22°51 | 0°41 | W12 |
| T 13 | 5 29 33 | 21°53'06 | 20°47 | 28°41 | 6°21 | 16°38 | 4°24 | 9°57 | 28°53 | 25° 4 | 29°55 | 19°28 | 17°53 | 22°58 | 0°43 | T 13 |
| F 14 | 5 33 30 | 22°54'12 | 3♉33 | 27°27 | 7°29 | 17°24 | 4°17 | 10° 3 | 28°55 | 25° 6 | 29°53 | 19°30 | 17°50 | 23° 4 | 0°45 | F 14 |
| S 15 | 5 37 26 | 23°55'18 | 16° 4 | 26° 8 | 8°36 | 18°10 | 4°10 | 10° 8 | 28°57 | 25° 8 | 29°52 | 19°R31 | 17°47 | 23°11 | 0°47 | S 15 |
| S 16 | 5 41 23 | 24°56'25 | 28°25 | 24°45 | 9°44 | 18°56 | 4° 2 | 10°14 | 28°59 | 25°10 | 29°51 | 19°30 | 17°44 | 23°18 | 0°49 | S 16 |
| M17 | 5 45 20 | 25°57'32 | 10♊36 | 23°23 | 10°52 | 19°42 | 3°55 | 10°20 | 29° 1 | 25°12 | 29°50 | 19°28 | 17°41 | 23°24 | 0°51 | M17 |
| T 18 | 5 49 16 | 26°58'39 | 22°40 | 22° 3 | 12° 0 | 20°28 | 3°48 | 10°26 | 29° 3 | 25°14 | 29°49 | 19°24 | 17°37 | 23°31 | 0°53 | T 18 |
| W19 | 5 53 13 | 27°59'46 | 4♋39 | 20°49 | 13° 9 | 21°15 | 3°42 | 10°32 | 29° 5 | 25°16 | 29°47 | 19°18 | 17°34 | 23°38 | 0°56 | W19 |
| T 20 | 5 57 9 | 29° 0'54 | 16°33 | 19°41 | 14°17 | 22° 1 | 3°35 | 10°38 | 29° 7 | 25°18 | 29°46 | 19°11 | 17°31 | 23°45 | 0°58 | T 20 |
| F 21 | 6 1 6 | 0♑ 2'03 | 28°25 | 18°43 | 15°26 | 22°47 | 3°28 | 10°44 | 29° 9 | 25°21 | 29°45 | 19° 3 | 17°28 | 23°51 | 1° 0 | F 21 |
| S 22 | 6 5 2 | 1° 3'11 | 10♌16 | 17°54 | 16°35 | 23°33 | 3°22 | 10°50 | 29°11 | 25°23 | 29°44 | 18°54 | 17°25 | 23°58 | 1° 3 | S 22 |
| S 23 | 6 8 59 | 2° 4'21 | 22° 9 | 17°16 | 17°44 | 24°19 | 3°16 | 10°56 | 29°13 | 25°25 | 29°43 | 18°47 | 17°22 | 24° 5 | 1° 5 | S 23 |
| M24 | 6 12 56 | 3° 5'30 | 4♍ 7 | 16°49 | 18°53 | 25° 5 | 3° 9 | 11° 2 | 29°16 | 25°27 | 29°41 | 18°41 | 17°18 | 24°11 | 1° 8 | M24 |
| T 25 | 6 16 52 | 4° 6'40 | 16°13 | 16°31 | 20° 3 | 25°52 | 3° 3 | 11° 8 | 29°18 | 25°29 | 29°40 | 18°37 | 17°15 | 24°18 | 1°10 | T 25 |
| W26 | 6 20 49 | 5° 7'50 | 28°32 | 16°D24 | 21°12 | 26°38 | 2°58 | 11°14 | 29°20 | 25°31 | 29°39 | 18°35 | 17°12 | 24°25 | 1°13 | W26 |
| T 27 | 6 24 45 | 6° 9'00 | 11♎ 7 | 16°26 | 22°22 | 27°24 | 2°52 | 11°21 | 29°23 | 25°33 | 29°38 | 18°D35 | 17° 9 | 24°32 | 1°15 | T 27 |
| F 28 | 6 28 42 | 7°10'11 | 24° 4 | 16°37 | 23°32 | 28°10 | 2°46 | 11°27 | 29°25 | 25°36 | 29°37 | 18°36 | 17° 6 | 24°38 | 1°18 | F 28 |
| S 29 | 6 32 38 | 8°11'22 | 7♏27 | 16°56 | 24°42 | 28°56 | 2°41 | 11°33 | 29°27 | 25°38 | 29°35 | 18°37 | 17° 3 | 24°45 | 1°21 | S 29 |
| S 30 | 6 36 35 | 9°12'34 | 21°17 | 17°22 | 25°52 | 29°42 | 2°36 | 11°40 | 29°30 | 25°40 | 29°34 | 18°R38 | 16°59 | 24°52 | 1°23 | S 30 |
| M31 | 6 40 31 | 10♑13'46 | 5♐37 | 17♐55 | 27♏ 2 | 0♓28 | 2♊31 | 11♒46 | 29♒32 | 25♑42 | 29♊33 | 18♉36 | 16♉56 | 24♋58 | 1♓26 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s57 | 9s36 | 1n49 | 25s23 | 1s54 | 6s53 | 2n18 | 19s48 | 1s24 | 20n32 | 0s50 | 18s58 | 0s56 | 12s42 | 0s45 | 20s52 | 0n22 | 18n28 | 5s 1 | 17n42 | 17n22 | 26n17 | 6s10 | 5n32 |
| S 2 | 22 5 | 15 21 | 0 35 | 25 14 | 1 46 | 7 14 | 2 21 | 19 35 | 1 23 | 20 30 | 0 50 | 18 57 | 0 56 | 12 41 | 0 45 | 20 51 | 0 22 | 18 28 | 5 1 | 17 42 | 17 21 | 26 16 | 6 10 | 5 32 |
| M 3 | 22 14 | 20 26 | 0s44 | 25 4 | 1 36 | 7 36 | 2 23 | 19 23 | 1 22 | 20 29 | 0 49 | 18 55 | 0 56 | 12 41 | 0 45 | 20 51 | 0 22 | 18 28 | 5 1 | 17 42 | 17 21 | 26 15 | 6 10 | 5 32 |
| T 4 | 22 22 | 24 21 | 2 2 | 24 52 | 1 24 | 7 57 | 2 25 | 19 10 | 1 21 | 20 28 | 0 49 | 18 54 | 0 56 | 12 40 | 0 45 | 20 51 | 0 22 | 18 28 | 5 1 | 17 42 | 17 20 | 26 14 | 6 10 | 5 31 |
| W 5 | 22 30 | 26 40 | 3 13 | 24 39 | 1 12 | 8 19 | 2 27 | 18 56 | 1 21 | 20 27 | 0 49 | 18 53 | 0 56 | 12 40 | 0 45 | 20 51 | 0 22 | 18 28 | 5 1 | 17 41 | 17 19 | 26 14 | 6 9 | 5 31 |
| T 6 | 22 37 | 27 3 | 4 10 | 24 25 | 0 58 | 8 41 | 2 29 | 18 43 | 1 20 | 20 25 | 0 49 | 18 51 | 0 56 | 12 39 | 0 45 | 20 50 | 0 22 | 18 28 | 5 1 | 17 40 | 17 18 | 26 13 | 6 9 | 5 31 |
| F 7 | 22 43 | 25 28 | 4 50 | 24 10 | 0 43 | 9 2 | 2 31 | 18 29 | 1 19 | 20 24 | 0 49 | 18 50 | 0 56 | 12 38 | 0 45 | 20 50 | 0 22 | 18 28 | 5 1 | 17 39 | 17 17 | 26 12 | 6 9 | 5 30 |
| S 8 | 22 50 | 22 9 | 5 11 | 23 54 | 0 26 | 9 24 | 2 32 | 18 15 | 1 18 | 20 23 | 0 49 | 18 49 | 0 56 | 12 38 | 0 45 | 20 50 | 0 22 | 18 28 | 5 1 | 17 38 | 17 16 | 26 11 | 6 9 | 5 30 |
| S 9 | 22 55 | 17 32 | 5 11 | 23 36 | 0 8 | 9 45 | 2 33 | 18 1 | 1 18 | 20 22 | 0 48 | 18 47 | 0 56 | 12 37 | 0 45 | 20 49 | 0 22 | 18 29 | 5 1 | 17 38 | 17 15 | 26 11 | 6 9 | 5 29 |
| M10 | 23 1 | 12 4 | 4 52 | 23 18 | 0n10 | 10 7 | 2 35 | 17 47 | 1 17 | 20 20 | 0 48 | 18 46 | 0 56 | 12 37 | 0 45 | 20 49 | 0 22 | 18 29 | 5 0 | 17 37 | 17 14 | 26 10 | 6 8 | 5 29 |
| T 11 | 23 6 | 6 10 | 4 17 | 22 59 | 0 30 | 10 28 | 2 36 | 17 33 | 1 16 | 20 19 | 0 48 | 18 44 | 0 56 | 12 36 | 0 45 | 20 49 | 0 22 | 18 29 | 5 0 | 17 37 | 17 13 | 26 9 | 6 8 | 5 29 |
| W12 | 23 10 | 0 7 | 3 29 | 22 39 | 0 50 | 10 50 | 2 37 | 17 19 | 1 15 | 20 18 | 0 48 | 18 43 | 0 56 | 12 35 | 0 45 | 20 48 | 0 22 | 18 29 | 5 0 | 17 37 | 17 13 | 26 8 | 6 8 | 5 28 |
| T 13 | 23 14 | 5n48 | 2 31 | 22 18 | 1 10 | 11 11 | 2 38 | 17 4 | 1 14 | 20 17 | 0 48 | 18 41 | 0 56 | 12 35 | 0 45 | 20 48 | 0 22 | 18 29 | 5 0 | 17 38 | 17 12 | 26 8 | 6 7 | 5 28 |
| F 14 | 23 18 | 11 22 | 1 26 | 21 58 | 1 30 | 11 32 | 2 38 | 16 49 | 1 14 | 20 16 | 0 48 | 18 40 | 0 56 | 12 34 | 0 45 | 20 48 | 0 22 | 18 29 | 5 0 | 17 38 | 17 11 | 26 7 | 6 7 | 5 28 |
| S 15 | 23 21 | 16 23 | 0 19 | 21 37 | 1 49 | 11 53 | 2 39 | 16 34 | 1 13 | 20 15 | 0 47 | 18 38 | 0 56 | 12 33 | 0 45 | 20 47 | 0 22 | 18 29 | 5 0 | 17 39 | 17 10 | 26 6 | 6 7 | 5 27 |
| S 16 | 23 23 | 20 38 | 0n48 | 21 17 | 2 6 | 12 14 | 2 39 | 16 19 | 1 12 | 20 13 | 0 47 | 18 37 | 0 56 | 12 33 | 0 45 | 20 47 | 0 22 | 18 29 | 5 0 | 17 38 | 17 9 | 26 5 | 6 6 | 5 27 |
| M17 | 23 25 | 23 56 | 1 52 | 20 58 | 2 22 | 12 35 | 2 39 | 16 4 | 1 11 | 20 12 | 0 47 | 18 35 | 0 56 | 12 32 | 0 45 | 20 47 | 0 22 | 18 29 | 5 0 | 17 38 | 17 8 | 26 4 | 6 6 | 5 27 |
| T 18 | 23 27 | 26 7 | 2 50 | 20 40 | 2 35 | 12 56 | 2 40 | 15 48 | 1 10 | 20 11 | 0 47 | 18 34 | 0 56 | 12 31 | 0 45 | 20 46 | 0 22 | 18 29 | 5 0 | 17 37 | 17 7 | 26 4 | 6 5 | 5 26 |
| W19 | 23 28 | 27 4 | 3 40 | 20 24 | 2 46 | 13 17 | 2 40 | 15 33 | 1 10 | 20 10 | 0 47 | 18 32 | 0 56 | 12 31 | 0 44 | 20 46 | 0 22 | 18 29 | 5 0 | 17 35 | 17 6 | 26 3 | 6 5 | 5 26 |
| T 20 | 23 29 | 26 46 | 4 20 | 20 11 | 2 55 | 13 37 | 2 39 | 15 17 | 1 9 | 20 9 | 0 46 | 18 30 | 0 56 | 12 30 | 0 44 | 20 45 | 0 22 | 18 29 | 5 0 | 17 33 | 17 5 | 26 2 | 6 4 | 5 26 |
| F 21 | 23 29 | 25 14 | 4 49 | 20 0 | 3 1 | 13 57 | 2 39 | 15 1 | 1 8 | 20 8 | 0 46 | 18 29 | 0 56 | 12 29 | 0 44 | 20 45 | 0 22 | 18 29 | 5 0 | 17 31 | 17 5 | 26 1 | 6 4 | 5 25 |
| S 22 | 23 29 | 22 35 | 5 5 | 19 52 | 3 5 | 14 17 | 2 39 | 14 45 | 1 7 | 20 7 | 0 46 | 18 27 | 0 56 | 12 28 | 0 44 | 20 45 | 0 22 | 18 29 | 5 0 | 17 29 | 17 4 | 26 0 | 6 3 | 5 25 |
| S 23 | 23 28 | 19 0 | 5 8 | 19 47 | 3 6 | 14 37 | 2 38 | 14 29 | 1 6 | 20 6 | 0 46 | 18 25 | 0 56 | 12 27 | 0 44 | 20 44 | 0 22 | 18 29 | 5 0 | 17 27 | 17 3 | 25 59 | 6 3 | 5 25 |
| M24 | 23 27 | 14 38 | 4 57 | 19 44 | 3 6 | 14 56 | 2 38 | 14 13 | 1 5 | 20 5 | 0 45 | 18 24 | 0 56 | 12 27 | 0 44 | 20 44 | 0 22 | 18 29 | 5 0 | 17 25 | 17 2 | 25 58 | 6 2 | 5 24 |
| T 25 | 23 25 | 9 39 | 4 34 | 19 45 | 3 4 | 15 16 | 2 37 | 13 56 | 1 5 | 20 4 | 0 45 | 18 22 | 0 56 | 12 26 | 0 44 | 20 44 | 0 22 | 18 29 | 5 0 | 17 24 | 17 1 | 25 58 | 6 2 | 5 24 |
| W26 | 23 23 | 4 12 | 3 57 | 19 47 | 3 1 | 15 35 | 2 36 | 13 40 | 1 4 | 20 3 | 0 45 | 18 20 | 0 56 | 12 25 | 0 44 | 20 43 | 0 22 | 18 29 | 5 0 | 17 23 | 17 0 | 25 57 | 6 1 | 5 24 |
| T 27 | 23 20 | 1s31 | 3 8 | 19 52 | 2 56 | 15 53 | 2 35 | 13 23 | 1 3 | 20 2 | 0 45 | 18 19 | 0 56 | 12 24 | 0 44 | 20 43 | 0 22 | 18 29 | 5 0 | 17 23 | 16 59 | 25 56 | 6 0 | 5 23 |
| F 28 | 23 17 | 7 22 | 2 8 | 19 59 | 2 51 | 16 12 | 2 34 | 13 6 | 1 2 | 20 1 | 0 45 | 18 17 | 0 56 | 12 23 | 0 44 | 20 42 | 0 22 | 18 29 | 5 0 | 17 24 | 16 58 | 25 55 | 6 0 | 5 23 |
| S 29 | 23 14 | 13 5 | 1 0 | 20 7 | 2 44 | 16 30 | 2 33 | 12 49 | 1 1 | 20 1 | 0 44 | 18 15 | 0 56 | 12 22 | 0 44 | 20 42 | 0 22 | 18 29 | 5 0 | 17 24 | 16 57 | 25 54 | 5 59 | 5 23 |
| S 30 | 23 10 | 18 21 | 0s14 | 20 16 | 2 37 | 16 48 | 2 32 | 12 32 | 1 1 | 20 0 | 0 44 | 18 13 | 0 56 | 12 22 | 0 44 | 20 42 | 0 22 | 18 30 | 4 59 | 17 24 | 16 56 | 25 53 | 5 58 | 5 22 |
| M31 | 23s 5 | 22s45 | 1s30 | 20s27 | 2n30 | 17s 5 | 2n31 | 12s15 | 1s 0 | 19n59 | 0s44 | 18s11 | 0s56 | 12s21 | 0s44 | 20s41 | 0n22 | 18n30 | 4s59 | 17n24 | 16n56 | 25n52 | 5s58 | 5n22 |

Julian Day Number = 2330619.5, Delta T = 30.44 sec
Ecliptic obliquity = 23°29'02, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'08, Lahiri = 19°14'09Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## JANUARY 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 44 28 | 11♉14'57 | 20♐23 | 18♐34 | 28♏13 | 1♓14 | 2°R26 | 11♒53 | 29♒35 | 25♉44 | 29°R32 | 18°R33 | 16♌53 | 25♋ 5 | 1♓29 | T 1 |
| W 2 | 6 48 25 | 12°16'09 | 5♉29 | 19°18 | 29°23 | 2° 1 | 2♊21 | 11°59 | 29°37 | 25°47 | 29♊31 | 18♌27 | 16°50 | 25°12 | 1°32 | W 2 |
| T 3 | 6 52 21 | 13°17'21 | 20°47 | 20° 6 | 0♐34 | 2°47 | 2°17 | 12° 6 | 29°40 | 25°49 | 29°29 | 18°19 | 16°47 | 25°19 | 1°35 | T 3 |
| F 4 | 6 56 18 | 14°18'32 | 6♒ 4 | 20°59 | 1°44 | 3°33 | 2°12 | 12°12 | 29°43 | 25°51 | 29°28 | 18°10 | 16°43 | 25°25 | 1°38 | F 4 |
| S 5 | 7 0 14 | 15°19'43 | 21°11 | 21°55 | 2°55 | 4°19 | 2° 8 | 12°19 | 29°45 | 25°53 | 29°27 | 18° 1 | 16°40 | 25°32 | 1°41 | S 5 |
| S 6 | 7 4 11 | 16°20'54 | 5♓57 | 22°55 | 4° 6 | 5° 5 | 2° 4 | 12°26 | 29°48 | 25°56 | 29°26 | 17°53 | 16°37 | 25°39 | 1°44 | S 6 |
| M 7 | 7 8 7 | 17°22'03 | 20°17 | 23°58 | 5°17 | 5°51 | 2° 0 | 12°33 | 29°51 | 25°58 | 29°25 | 17°48 | 16°34 | 25°45 | 1°47 | M 7 |
| T 8 | 7 12 4 | 18°23'12 | 4♈ 9 | 25° 4 | 6°28 | 6°37 | 1°57 | 12°39 | 29°54 | 26° 0 | 29°24 | 17°45 | 16°31 | 25°52 | 1°50 | T 8 |
| W 9 | 7 16 0 | 19°24'21 | 17°32 | 26°12 | 7°39 | 7°23 | 1°53 | 12°46 | 29°56 | 26° 2 | 29°22 | 17°D44 | 16°28 | 25°59 | 1°53 | W 9 |
| T 10 | 7 19 57 | 20°25'28 | 0♉31 | 27°22 | 8°50 | 8° 9 | 1°50 | 12°53 | 29°59 | 26° 5 | 29°21 | 17°44 | 16°24 | 26° 6 | 1°57 | T 10 |
| F 11 | 7 23 54 | 21°26'35 | 13° 9 | 28°34 | 10° 2 | 8°55 | 1°47 | 13° 0 | 0♓ 2 | 26° 7 | 29°20 | 17°R45 | 16°21 | 26°12 | 2° 0 | F 11 |
| S 12 | 7 27 50 | 22°27'41 | 25°30 | 29°48 | 11°13 | 9°41 | 1°44 | 13° 7 | 0° 5 | 26° 9 | 29°19 | 17°44 | 16°18 | 26°19 | 2° 3 | S 12 |
| S 13 | 7 31 47 | 23°28'46 | 7♊39 | 1♉ 4 | 12°25 | 10°27 | 1°42 | 13°14 | 0° 8 | 26°11 | 29°18 | 17°42 | 16°15 | 26°26 | 2° 6 | S 13 |
| M14 | 7 35 43 | 24°29'51 | 19°40 | 2°21 | 13°36 | 11°13 | 1°39 | 13°21 | 0°11 | 26°14 | 29°17 | 17°38 | 16°12 | 26°32 | 2°10 | M14 |
| T 15 | 7 39 40 | 25°30'54 | 1♋35 | 3°39 | 14°48 | 11°59 | 1°37 | 13°28 | 0°14 | 26°16 | 29°16 | 17°30 | 16° 9 | 26°39 | 2°13 | T 15 |
| W16 | 7 43 36 | 26°31'57 | 13°28 | 4°59 | 16° 0 | 12°45 | 1°35 | 13°35 | 0°17 | 26°18 | 29°15 | 17°20 | 16° 5 | 26°46 | 2°16 | W16 |
| T 17 | 7 47 33 | 27°32'59 | 25°20 | 6°20 | 17°11 | 13°31 | 1°33 | 13°42 | 0°20 | 26°21 | 29°14 | 17° 7 | 16° 2 | 26°53 | 2°20 | T 17 |
| F 18 | 7 51 29 | 28°34'01 | 7♌12 | 7°42 | 18°23 | 14°16 | 1°32 | 13°49 | 0°23 | 26°23 | 29°13 | 16°53 | 15°59 | 26°59 | 2°23 | F 18 |
| S 19 | 7 55 26 | 29°35'01 | 19° 7 | 9° 5 | 19°35 | 15° 2 | 1°31 | 13°56 | 0°26 | 26°25 | 29°12 | 16°39 | 15°56 | 27° 6 | 2°27 | S 19 |
| S 20 | 7 59 23 | 0♒36'01 | 1♍ 4 | 10°29 | 20°47 | 15°48 | 1°29 | 14° 3 | 0°29 | 26°27 | 29°11 | 16°26 | 15°53 | 27°13 | 2°30 | S 20 |
| M21 | 8 3 19 | 1°37'00 | 13° 7 | 11°54 | 21°59 | 16°34 | 1°28 | 14°10 | 0°32 | 26°30 | 29°10 | 16°15 | 15°49 | 27°19 | 2°34 | M21 |
| T 22 | 8 7 16 | 2°37'58 | 25°16 | 13°19 | 23°11 | 17°19 | 1°28 | 14°17 | 0°35 | 26°32 | 29° 9 | 16° 7 | 15°46 | 27°26 | 2°37 | T 22 |
| W23 | 8 11 12 | 3°38'56 | 7♎36 | 14°46 | 24°23 | 18° 5 | 1°27 | 14°24 | 0°38 | 26°34 | 29° 8 | 16° 1 | 15°43 | 27°33 | 2°41 | W23 |
| T 24 | 8 15 9 | 4°39'53 | 20°10 | 16°14 | 25°36 | 18°51 | 1°27 | 14°31 | 0°42 | 26°36 | 29° 7 | 15°59 | 15°40 | 27°40 | 2°45 | T 24 |
| F 25 | 8 19 5 | 5°40'49 | 3♏ 2 | 17°42 | 26°48 | 19°36 | 1°D27 | 14°38 | 0°45 | 26°39 | 29° 6 | 15°D58 | 15°37 | 27°46 | 2°48 | F 25 |
| S 26 | 8 23 2 | 6°41'44 | 16°15 | 19°11 | 28° 0 | 20°22 | 1°27 | 14°45 | 0°48 | 26°41 | 29° 5 | 15°R58 | 15°34 | 27°53 | 2°52 | S 26 |
| S 27 | 8 26 58 | 7°42'39 | 29°54 | 20°41 | 29°13 | 21° 8 | 1°27 | 14°53 | 0°51 | 26°43 | 29° 4 | 15°57 | 15°30 | 28° 0 | 2°55 | S 27 |
| M28 | 8 30 55 | 8°43'33 | 14♐ 0 | 22°12 | 0♑25 | 21°53 | 1°27 | 15° 0 | 0°54 | 26°45 | 29° 3 | 15°55 | 15°27 | 28° 6 | 2°59 | M28 |
| T 29 | 8 34 52 | 9°44'26 | 28°34 | 23°43 | 1°38 | 22°39 | 1°28 | 15° 7 | 0°58 | 26°48 | 29° 2 | 15°50 | 15°24 | 28°13 | 3° 3 | T 29 |
| W30 | 8 38 48 | 10°45'19 | 13♑31 | 25°15 | 2°50 | 23°24 | 1°29 | 15°14 | 1° 1 | 26°50 | 29° 1 | 15°43 | 15°21 | 28°20 | 3° 7 | W30 |
| T 31 | 8 42 45 | 11♒46'10 | 28♑45 | 26♑48 | 4♑ 3 | 24♓10 | 1♊30 | 15♒21 | 1♓ 4 | 26♑52 | 29♊ 0 | 15♌32 | 15♌18 | 28♋27 | 3♓10 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 0 | 25s49 | 2s42 | 20s39 | 2n21 | 17s22 | 2n29 | 11s58 | 0s59 | 19n58 | 0s44 | 18s10 | 0s56 | 12s20 | 0s44 | 20s41 | 0n22 | 18n30 | 4s59 | 17n23 | 16n55 | 25n51 | 5s57 | 5n22 |
| W 2 | 22 55 | 27 6 | 3 44 | 20 51 | 2 13 | 17 39 | 2 28 | 11 41 | 0 58 | 19 58 | 0 43 | 18 8 | 0 56 | 12 19 | 0 44 | 20 40 | 0 22 | 18 30 | 4 59 | 17 21 | 16 54 | 25 50 | 5 56 | 5 22 |
| T 3 | 22 49 | 26 20 | 4 31 | 21 3 | 2 4 | 17 55 | 2 26 | 11 23 | 0 57 | 19 57 | 0 43 | 18 6 | 0 56 | 12 18 | 0 44 | 20 40 | 0 22 | 18 30 | 4 59 | 17 19 | 16 53 | 25 49 | 5 55 | 5 21 |
| F 4 | 22 43 | 23 36 | 4 58 | 21 16 | 1 55 | 18 11 | 2 25 | 11 6 | 0 56 | 19 56 | 0 43 | 18 4 | 0 56 | 12 17 | 0 44 | 20 40 | 0 22 | 18 30 | 4 59 | 17 16 | 16 52 | 25 48 | 5 55 | 5 21 |
| S 5 | 22 36 | 19 16 | 5 4 | 21 28 | 1 46 | 18 27 | 2 23 | 10 48 | 0 56 | 19 56 | 0 43 | 18 2 | 0 56 | 12 16 | 0 44 | 20 39 | 0 22 | 18 30 | 4 59 | 17 14 | 16 51 | 25 47 | 5 54 | 5 21 |
| S 6 | 22 29 | 13 50 | 4 50 | 21 41 | 1 37 | 18 42 | 2 21 | 10 31 | 0 55 | 19 55 | 0 43 | 18 0 | 0 56 | 12 15 | 0 44 | 20 39 | 0 22 | 18 30 | 4 59 | 17 12 | 16 50 | 25 46 | 5 53 | 5 20 |
| M 7 | 22 21 | 7 48 | 4 18 | 21 53 | 1 28 | 18 57 | 2 19 | 10 13 | 0 54 | 19 55 | 0 42 | 17 59 | 0 56 | 12 14 | 0 44 | 20 38 | 0 22 | 18 30 | 4 59 | 17 10 | 16 49 | 25 45 | 5 52 | 5 20 |
| T 8 | 22 13 | 1 34 | 3 31 | 22 5 | 1 18 | 19 11 | 2 17 | 9 55 | 0 53 | 19 54 | 0 42 | 17 57 | 0 57 | 12 13 | 0 44 | 20 38 | 0 22 | 18 30 | 4 59 | 17 9 | 16 48 | 25 44 | 5 51 | 5 20 |
| W 9 | 22 5 | 4n32 | 2 34 | 22 17 | 1 9 | 19 25 | 2 15 | 9 37 | 0 52 | 19 54 | 0 42 | 17 55 | 0 57 | 12 12 | 0 44 | 20 38 | 0 22 | 18 30 | 4 59 | 17 9 | 16 47 | 25 43 | 5 51 | 5 20 |
| T 10 | 21 56 | 10 16 | 1 31 | 22 27 | 1 0 | 19 38 | 2 13 | 9 19 | 0 51 | 19 53 | 0 42 | 17 53 | 0 57 | 12 11 | 0 44 | 20 37 | 0 22 | 18 30 | 4 59 | 17 9 | 16 46 | 25 42 | 5 50 | 5 19 |
| F 11 | 21 46 | 15 25 | 0 25 | 22 37 | 0 51 | 19 51 | 2 10 | 9 1 | 0 50 | 19 53 | 0 41 | 17 51 | 0 57 | 12 10 | 0 44 | 20 37 | 0 22 | 18 31 | 4 58 | 17 9 | 16 46 | 25 41 | 5 49 | 5 19 |
| S 12 | 21 37 | 19 50 | 0n41 | 22 47 | 0 42 | 20 3 | 2 8 | 8 43 | 0 50 | 19 53 | 0 41 | 17 49 | 0 57 | 12 9 | 0 44 | 20 36 | 0 22 | 18 31 | 4 58 | 17 9 | 16 45 | 25 40 | 5 48 | 5 19 |
| S 13 | 21 26 | 23 20 | 1 44 | 22 55 | 0 33 | 20 15 | 2 6 | 8 25 | 0 49 | 19 52 | 0 41 | 17 47 | 0 57 | 12 8 | 0 44 | 20 36 | 0 21 | 18 31 | 4 58 | 17 9 | 16 44 | 25 39 | 5 47 | 5 19 |
| M14 | 21 16 | 25 45 | 2 41 | 23 3 | 0 25 | 20 26 | 2 3 | 8 7 | 0 48 | 19 52 | 0 41 | 17 45 | 0 57 | 12 7 | 0 44 | 20 36 | 0 21 | 18 31 | 4 58 | 17 7 | 16 43 | 25 38 | 5 46 | 5 18 |
| T 15 | 21 5 | 26 59 | 3 31 | 23 10 | 0 16 | 20 37 | 2 1 | 7 48 | 0 47 | 19 52 | 0 40 | 17 43 | 0 57 | 12 6 | 0 44 | 20 35 | 0 21 | 18 31 | 4 58 | 17 5 | 16 42 | 25 37 | 5 45 | 5 18 |
| W16 | 20 53 | 26 57 | 4 10 | 23 15 | 0 8 | 20 47 | 1 58 | 7 30 | 0 46 | 19 52 | 0 40 | 17 41 | 0 57 | 12 5 | 0 44 | 20 35 | 0 21 | 18 31 | 4 58 | 17 2 | 16 41 | 25 36 | 5 44 | 5 18 |
| T 17 | 20 41 | 25 41 | 4 39 | 23 20 | 0s 0 | 20 57 | 1 55 | 7 12 | 0 45 | 19 52 | 0 40 | 17 39 | 0 57 | 12 4 | 0 44 | 20 34 | 0 21 | 18 31 | 4 58 | 16 59 | 16 40 | 25 35 | 5 43 | 5 18 |
| F 18 | 20 29 | 23 17 | 4 56 | 23 24 | 0 8 | 21 6 | 1 53 | 6 53 | 0 45 | 19 52 | 0 40 | 17 37 | 0 57 | 12 2 | 0 44 | 20 34 | 0 21 | 18 31 | 4 58 | 16 55 | 16 39 | 25 34 | 5 42 | 5 18 |
| S 19 | 20 17 | 19 52 | 5 0 | 23 26 | 0 16 | 21 15 | 1 50 | 6 35 | 0 44 | 19 51 | 0 39 | 17 35 | 0 57 | 12 1 | 0 44 | 20 33 | 0 21 | 18 31 | 4 58 | 16 51 | 16 38 | 25 33 | 5 41 | 5 17 |
| S 20 | 20 4 | 15 38 | 4 51 | 23 28 | 0 24 | 21 23 | 1 47 | 6 16 | 0 43 | 19 51 | 0 39 | 17 33 | 0 57 | 12 0 | 0 44 | 20 33 | 0 21 | 18 31 | 4 57 | 16 47 | 16 37 | 25 32 | 5 40 | 5 17 |
| M21 | 19 50 | 10 47 | 4 29 | 23 28 | 0 31 | 21 30 | 1 44 | 5 58 | 0 42 | 19 52 | 0 39 | 17 31 | 0 57 | 11 59 | 0 44 | 20 33 | 0 21 | 18 32 | 4 57 | 16 44 | 16 36 | 25 31 | 5 39 | 5 17 |
| T 22 | 19 36 | 5 27 | 3 54 | 23 27 | 0 38 | 21 37 | 1 41 | 5 39 | 0 41 | 19 52 | 0 39 | 17 29 | 0 57 | 11 58 | 0 44 | 20 32 | 0 21 | 18 32 | 4 57 | 16 41 | 16 35 | 25 30 | 5 38 | 5 17 |
| W23 | 19 22 | 0s 9 | 3 8 | 23 25 | 0 45 | 21 43 | 1 39 | 5 20 | 0 40 | 19 52 | 0 38 | 17 27 | 0 57 | 11 57 | 0 44 | 20 32 | 0 21 | 18 32 | 4 57 | 16 40 | 16 35 | 25 29 | 5 37 | 5 16 |
| T 24 | 19 8 | 5 52 | 2 12 | 23 21 | 0 52 | 21 49 | 1 36 | 5 2 | 0 40 | 19 52 | 0 38 | 17 25 | 0 57 | 11 56 | 0 44 | 20 31 | 0 21 | 18 32 | 4 57 | 16 39 | 16 34 | 25 28 | 5 36 | 5 16 |
| F 25 | 18 53 | 11 29 | 1 8 | 23 17 | 0 58 | 21 54 | 1 33 | 4 43 | 0 39 | 19 52 | 0 38 | 17 23 | 0 57 | 11 55 | 0 44 | 20 31 | 0 21 | 18 32 | 4 57 | 16 39 | 16 33 | 25 27 | 5 35 | 5 16 |
| S 26 | 18 38 | 16 45 | 0s 2 | 23 10 | 1 5 | 21 59 | 1 30 | 4 24 | 0 38 | 19 52 | 0 38 | 17 21 | 0 57 | 11 53 | 0 44 | 20 31 | 0 21 | 18 32 | 4 57 | 16 39 | 16 32 | 25 26 | 5 33 | 5 16 |
| S 27 | 18 23 | 21 21 | 1 13 | 23 3 | 1 11 | 22 2 | 1 26 | 4 6 | 0 37 | 19 53 | 0 37 | 17 19 | 0 57 | 11 52 | 0 44 | 20 30 | 0 21 | 18 32 | 4 57 | 16 39 | 16 31 | 25 24 | 5 32 | 5 16 |
| M28 | 18 7 | 24 53 | 2 22 | 22 54 | 1 16 | 22 6 | 1 23 | 3 47 | 0 36 | 19 53 | 0 37 | 17 17 | 0 57 | 11 51 | 0 44 | 20 30 | 0 21 | 18 32 | 4 56 | 16 38 | 16 30 | 25 23 | 5 31 | 5 16 |
| T 29 | 17 51 | 26 53 | 3 24 | 22 44 | 1 22 | 22 8 | 1 20 | 3 28 | 0 35 | 19 53 | 0 37 | 17 15 | 0 57 | 11 50 | 0 44 | 20 29 | 0 21 | 18 32 | 4 56 | 16 37 | 16 29 | 25 22 | 5 30 | 5 15 |
| W30 | 17 34 | 27 1 | 4 14 | 22 33 | 1 27 | 22 10 | 1 17 | 3 9 | 0 35 | 19 54 | 0 37 | 17 13 | 0 58 | 11 49 | 0 44 | 20 29 | 0 21 | 18 33 | 4 56 | 16 34 | 16 28 | 25 21 | 5 29 | 5 15 |
| T 31 | 17s17 | 25s 8 | 4s47 | 22s20 | 1s32 | 22s12 | 1n14 | 2s50 | 0s34 | 19n54 | 0s37 | 17s11 | 0s58 | 11s48 | 0s44 | 20s28 | 0n21 | 18n33 | 4s56 | 16n31 | 16n27 | 25n20 | 5s28 | 5n15 |

Julian Day Number = 2330650.5, Delta T = 30.38 sec
Ecliptic obliquity = 23°29'02, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'12, Lahiri = 19°14'13Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## FEBRUARY 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 46 41 | 12♒47'00 | 14♒ 5 | 28♑22 | 5♑16 | 24♓55 | 1♊31 | 15♒29 | 1♓ 8 | 26♑54 | 29°R 0 | 15°R21 | 15♉15 | 28♋33 | 3♓14 | F 1 |
| S 2 | 8 50 38 | 13°47'49 | 29°19 | 29°57 | 6°28 | 25°40 | 1°33 | 15°36 | 1°11 | 26°57 | 28♊59 | 15♉ 9 | 15°11 | 28°40 | 3°18 | S 2 |
| S 3 | 8 54 34 | 14°48'36 | 14♓17 | 1♒32 | 7°41 | 26°26 | 1°34 | 15°43 | 1°14 | 26°59 | 28°58 | 14°58 | 15° 8 | 28°47 | 3°22 | S 3 |
| M 4 | 8 58 31 | 15°49'22 | 28°49 | 3° 8 | 8°54 | 27°11 | 1°36 | 15°50 | 1°18 | 27° 1 | 28°57 | 14°50 | 15° 5 | 28°53 | 3°26 | M 4 |
| T 5 | 9 2 27 | 16°50'06 | 12♈52 | 4°45 | 10° 7 | 27°57 | 1°38 | 15°57 | 1°21 | 27° 3 | 28°56 | 14°45 | 15° 2 | 29° 0 | 3°29 | T 5 |
| W 6 | 9 6 24 | 17°50'49 | 26°25 | 6°23 | 11°19 | 28°42 | 1°41 | 16° 5 | 1°24 | 27° 5 | 28°56 | 14°42 | 14°59 | 29° 7 | 3°33 | W 6 |
| T 7 | 9 10 21 | 18°51'30 | 9♉30 | 8° 1 | 12°32 | 29°27 | 1°43 | 16°12 | 1°28 | 27° 7 | 28°55 | 14°42 | 14°55 | 29°14 | 3°37 | T 7 |
| F 8 | 9 14 17 | 19°52'09 | 22°10 | 9°41 | 13°45 | 0♈12 | 1°46 | 16°19 | 1°31 | 27°10 | 28°54 | 14°42 | 14°52 | 29°20 | 3°41 | F 8 |
| S 9 | 9 18 14 | 20°52'46 | 4♊30 | 11°21 | 14°58 | 0°57 | 1°49 | 16°26 | 1°34 | 27°12 | 28°53 | 14°41 | 14°49 | 29°27 | 3°45 | S 9 |
| S 10 | 9 22 10 | 21°53'22 | 16°37 | 13° 2 | 16°11 | 1°43 | 1°52 | 16°33 | 1°38 | 27°14 | 28°53 | 14°39 | 14°46 | 29°34 | 3°49 | S 10 |
| M11 | 9 26 7 | 22°53'56 | 28°33 | 14°44 | 17°24 | 2°28 | 1°55 | 16°41 | 1°41 | 27°16 | 28°52 | 14°34 | 14°43 | 29°40 | 3°53 | M11 |
| T 12 | 9 30 3 | 23°54'29 | 10♋25 | 16°27 | 18°37 | 3°13 | 1°58 | 16°48 | 1°45 | 27°18 | 28°52 | 14°27 | 14°40 | 29°47 | 3°57 | T 12 |
| W13 | 9 34 0 | 24°55'00 | 22°16 | 18°10 | 19°50 | 3°58 | 2° 2 | 16°55 | 1°48 | 27°20 | 28°51 | 14°16 | 14°36 | 29°54 | 4° 1 | W13 |
| T 14 | 9 37 56 | 25°55'28 | 4♌ 7 | 19°55 | 21° 3 | 4°43 | 2° 6 | 17° 2 | 1°52 | 27°22 | 28°50 | 14° 4 | 14°33 | 0♌ 1 | 4° 5 | T 14 |
| F 15 | 9 41 53 | 26°55'56 | 16° 2 | 21°40 | 22°16 | 5°28 | 2°10 | 17° 9 | 1°55 | 27°24 | 28°50 | 13°50 | 14°30 | 0° 7 | 4° 9 | F 15 |
| S 16 | 9 45 50 | 27°56'21 | 28° 2 | 23°27 | 23°29 | 6°12 | 2°14 | 17°16 | 1°59 | 27°26 | 28°49 | 13°35 | 14°27 | 0°14 | 4°13 | S 16 |
| S 17 | 9 49 46 | 28°56'45 | 10♍ 8 | 25°14 | 24°42 | 6°57 | 2°18 | 17°23 | 2° 2 | 27°28 | 28°49 | 13°22 | 14°24 | 0°21 | 4°17 | S 17 |
| M18 | 9 53 43 | 29°57'07 | 22°21 | 27° 3 | 25°55 | 7°42 | 2°23 | 17°31 | 2° 5 | 27°30 | 28°48 | 13°11 | 14°20 | 0°28 | 4°20 | M18 |
| T 19 | 9 57 39 | 0♓57'28 | 4♎42 | 28°52 | 27° 9 | 8°27 | 2°27 | 17°38 | 2° 9 | 27°32 | 28°48 | 13° 2 | 14°17 | 0°34 | 4°24 | T 19 |
| W20 | 10 1 36 | 1°57'47 | 17°12 | 0♓42 | 28°22 | 9°12 | 2°32 | 17°45 | 2°12 | 27°34 | 28°47 | 12°56 | 14°14 | 0°41 | 4°28 | W20 |
| T 21 | 10 5 32 | 2°58'04 | 29°54 | 2°34 | 29°35 | 9°56 | 2°37 | 17°52 | 2°16 | 27°36 | 28°47 | 12°54 | 14°11 | 0°48 | 4°32 | T 21 |
| F 22 | 10 9 29 | 3°58'20 | 12♏49 | 4°26 | 0♒48 | 10°41 | 2°43 | 17°59 | 2°19 | 27°38 | 28°46 | 12°D53 | 14° 8 | 0°54 | 4°36 | F 22 |
| S 23 | 10 13 25 | 4°58'35 | 26° 2 | 6°19 | 2° 1 | 11°26 | 2°48 | 18° 6 | 2°23 | 27°40 | 28°46 | 12°53 | 14° 5 | 1° 1 | 4°40 | S 23 |
| S 24 | 10 17 22 | 5°58'48 | 9♐35 | 8°12 | 3°15 | 12°10 | 2°54 | 18°13 | 2°26 | 27°42 | 28°45 | 12°R53 | 14° 1 | 1° 8 | 4°44 | S 24 |
| M25 | 10 21 19 | 6°58'59 | 23°30 | 10° 7 | 4°28 | 12°55 | 2°59 | 18°20 | 2°30 | 27°44 | 28°45 | 12°52 | 13°58 | 1°15 | 4°48 | M25 |
| T 26 | 10 25 15 | 7°59'10 | 7♑47 | 12° 2 | 5°41 | 13°39 | 3° 5 | 18°27 | 2°33 | 27°46 | 28°45 | 12°49 | 13°55 | 1°21 | 4°52 | T 26 |
| W27 | 10 29 12 | 8°59'18 | 22°26 | 13°58 | 6°55 | 14°24 | 3°11 | 18°34 | 2°36 | 27°48 | 28°44 | 12°43 | 13°52 | 1°28 | 4°56 | W27 |
| T 28 | 10 33 8 | 9♓59'25 | 7♒20 | 15♓54 | 8♒ 8 | 15♈ 8 | 3♊18 | 18♒41 | 2♓40 | 27♑49 | 28♊44 | 12♉35 | 13♉49 | 1♌35 | 5♓ 0 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s 0 | 21s25 | 5s 0 | 22s 6 | 1s36 | 22s12 | 1n11 | 2s32 | 0s33 | 19n55 | 0s36 | 17s 9 | 0s58 | 11s46 | 0s44 | 20s28 | 0n21 | 18n33 | 4s56 | 16n28 | 16n26 | 25n19 | 5s26 | 5n15 |
| S 2 | 16 43 | 16 16 | 4 51 | 21 50 | 1 41 | 22 12 | 1 7 | 2 13 | 0 32 | 19 55 | 0 36 | 17 7 | 0 58 | 11 45 | 0 44 | 20 28 | 0 21 | 18 33 | 4 56 | 16 25 | 16 25 | 25 18 | 5 25 | 5 15 |
| S 3 | 16 25 | 10 13 | 4 22 | 21 34 | 1 45 | 22 12 | 1 4 | 1 54 | 0 31 | 19 56 | 0 36 | 17 4 | 0 58 | 11 44 | 0 44 | 20 27 | 0 21 | 18 33 | 4 56 | 16 22 | 16 24 | 25 16 | 5 24 | 5 15 |
| M 4 | 16 7 | 3 47 | 3 37 | 21 15 | 1 49 | 22 10 | 1 1 | 1 35 | 0 31 | 19 56 | 0 36 | 17 2 | 0 58 | 11 43 | 0 44 | 20 27 | 0 21 | 18 33 | 4 56 | 16 19 | 16 23 | 25 15 | 5 23 | 5 14 |
| T 5 | 15 49 | 2n39 | 2 39 | 20 55 | 1 52 | 22 8 | 0 58 | 1 16 | 0 30 | 19 57 | 0 35 | 17 0 | 0 58 | 11 42 | 0 44 | 20 26 | 0 21 | 18 33 | 4 55 | 16 18 | 16 23 | 25 14 | 5 21 | 5 14 |
| W 6 | 15 31 | 8 44 | 1 35 | 20 34 | 1 55 | 22 6 | 0 54 | 0 58 | 0 29 | 19 58 | 0 35 | 16 58 | 0 58 | 11 40 | 0 43 | 20 26 | 0 21 | 18 34 | 4 55 | 16 17 | 16 22 | 25 13 | 5 20 | 5 14 |
| T 7 | 15 12 | 14 15 | 0 27 | 20 11 | 1 58 | 22 3 | 0 51 | 0 39 | 0 28 | 19 58 | 0 35 | 16 56 | 0 58 | 11 39 | 0 43 | 20 26 | 0 21 | 18 34 | 4 55 | 16 17 | 16 21 | 25 12 | 5 19 | 5 14 |
| F 8 | 14 53 | 18 59 | 0n39 | 19 47 | 2 0 | 21 59 | 0 48 | 0 20 | 0 27 | 19 59 | 0 35 | 16 54 | 0 58 | 11 38 | 0 43 | 20 25 | 0 21 | 18 34 | 4 55 | 16 17 | 16 20 | 25 10 | 5 18 | 5 14 |
| S 9 | 14 34 | 22 46 | 1 43 | 19 22 | 2 2 | 21 54 | 0 44 | 0 1 | 0 26 | 20 0 | 0 34 | 16 52 | 0 58 | 11 37 | 0 43 | 20 25 | 0 21 | 18 34 | 4 55 | 16 16 | 16 19 | 25 9 | 5 16 | 5 14 |
| S 10 | 14 14 | 25 28 | 2 40 | 18 54 | 2 3 | 21 49 | 0 41 | 0n17 | 0 26 | 20 1 | 0 34 | 16 50 | 0 58 | 11 35 | 0 43 | 20 24 | 0 21 | 18 34 | 4 55 | 16 16 | 16 18 | 25 8 | 5 15 | 5 14 |
| M11 | 13 55 | 26 58 | 3 29 | 18 26 | 2 5 | 21 43 | 0 38 | 0 36 | 0 25 | 20 2 | 0 34 | 16 48 | 0 58 | 11 34 | 0 43 | 20 24 | 0 21 | 18 34 | 4 55 | 16 14 | 16 17 | 25 7 | 5 14 | 5 14 |
| T 12 | 13 35 | 27 13 | 4 9 | 17 56 | 2 5 | 21 37 | 0 35 | 0 55 | 0 24 | 20 3 | 0 34 | 16 46 | 0 58 | 11 33 | 0 43 | 20 23 | 0 21 | 18 34 | 4 54 | 16 12 | 16 16 | 25 5 | 5 13 | 5 13 |
| W13 | 13 14 | 26 13 | 4 38 | 17 24 | 2 6 | 21 30 | 0 31 | 1 13 | 0 23 | 20 4 | 0 34 | 16 43 | 0 58 | 11 32 | 0 43 | 20 23 | 0 21 | 18 34 | 4 54 | 16 9 | 16 15 | 25 4 | 5 11 | 5 13 |
| T 14 | 12 54 | 24 2 | 4 55 | 16 51 | 2 6 | 21 22 | 0 28 | 1 32 | 0 22 | 20 5 | 0 33 | 16 41 | 0 59 | 11 31 | 0 43 | 20 23 | 0 21 | 18 35 | 4 54 | 16 5 | 16 14 | 25 3 | 5 10 | 5 13 |
| F 15 | 12 33 | 20 49 | 5 0 | 16 17 | 2 5 | 21 14 | 0 25 | 1 50 | 0 22 | 20 6 | 0 33 | 16 39 | 0 59 | 11 29 | 0 43 | 20 22 | 0 21 | 18 35 | 4 54 | 16 1 | 16 13 | 25 2 | 5 9 | 5 13 |
| S 16 | 12 13 | 16 43 | 4 51 | 15 41 | 2 4 | 21 5 | 0 21 | 2 9 | 0 21 | 20 7 | 0 33 | 16 37 | 0 59 | 11 28 | 0 43 | 20 22 | 0 21 | 18 35 | 4 54 | 15 57 | 16 12 | 25 0 | 5 7 | 5 13 |
| S 17 | 11 52 | 11 55 | 4 28 | 15 4 | 2 3 | 20 56 | 0 18 | 2 28 | 0 20 | 20 8 | 0 33 | 16 35 | 0 59 | 11 27 | 0 43 | 20 22 | 0 21 | 18 35 | 4 54 | 15 53 | 16 11 | 24 59 | 5 6 | 5 13 |
| M18 | 11 31 | 6 37 | 3 54 | 14 25 | 2 1 | 20 45 | 0 15 | 2 46 | 0 19 | 20 9 | 0 32 | 16 33 | 0 59 | 11 26 | 0 43 | 20 21 | 0 21 | 18 35 | 4 54 | 15 49 | 16 10 | 24 58 | 5 5 | 5 13 |
| T 19 | 11 9 | 1 0 | 3 8 | 13 45 | 1 59 | 20 35 | 0 12 | 3 4 | 0 19 | 20 10 | 0 32 | 16 31 | 0 59 | 11 24 | 0 43 | 20 21 | 0 21 | 18 35 | 4 53 | 15 47 | 16 9 | 24 57 | 5 3 | 5 13 |
| W20 | 10 48 | 4s44 | 2 12 | 13 3 | 1 56 | 20 23 | 0 9 | 3 23 | 0 18 | 20 11 | 0 32 | 16 29 | 0 59 | 11 23 | 0 43 | 20 20 | 0 21 | 18 36 | 4 53 | 15 45 | 16 8 | 24 55 | 5 2 | 5 13 |
| T 21 | 10 26 | 10 23 | 1 8 | 12 20 | 1 52 | 20 11 | 0 5 | 3 41 | 0 17 | 20 12 | 0 32 | 16 27 | 0 59 | 11 22 | 0 43 | 20 20 | 0 21 | 18 36 | 4 53 | 15 44 | 16 7 | 24 54 | 5 0 | 5 13 |
| F 22 | 10 4 | 15 43 | 0 0 | 11 35 | 1 49 | 19 59 | 0 2 | 3 59 | 0 16 | 20 13 | 0 32 | 16 25 | 0 59 | 11 21 | 0 43 | 20 20 | 0 21 | 18 36 | 4 53 | 15 44 | 16 7 | 24 53 | 4 59 | 5 13 |
| S 23 | 9 42 | 20 25 | 1s 9 | 10 49 | 1 44 | 19 46 | 0s 1 | 4 17 | 0 15 | 20 15 | 0 31 | 16 23 | 0 59 | 11 19 | 0 43 | 20 19 | 0 21 | 18 36 | 4 53 | 15 44 | 16 6 | 24 51 | 4 58 | 5 13 |
| S 24 | 9 20 | 24 11 | 2 17 | 10 2 | 1 39 | 19 32 | 0 4 | 4 36 | 0 15 | 20 16 | 0 31 | 16 20 | 0 59 | 11 18 | 0 43 | 20 19 | 0 21 | 18 36 | 4 53 | 15 44 | 16 5 | 24 50 | 4 56 | 5 13 |
| M25 | 8 58 | 26 37 | 3 18 | 9 14 | 1 33 | 19 18 | 0 7 | 4 54 | 0 14 | 20 17 | 0 31 | 16 18 | 1 0 | 11 17 | 0 43 | 20 18 | 0 21 | 18 36 | 4 52 | 15 44 | 16 4 | 24 49 | 4 55 | 5 13 |
| T 26 | 8 35 | 27 24 | 4 9 | 8 24 | 1 27 | 19 3 | 0 10 | 5 12 | 0 13 | 20 19 | 0 31 | 16 16 | 1 0 | 11 16 | 0 43 | 20 18 | 0 21 | 18 36 | 4 52 | 15 43 | 16 3 | 24 47 | 4 54 | 5 12 |
| W27 | 8 13 | 26 18 | 4 45 | 7 33 | 1 20 | 18 47 | 0 13 | 5 30 | 0 12 | 20 20 | 0 31 | 16 14 | 1 0 | 11 14 | 0 43 | 20 18 | 0 21 | 18 37 | 4 52 | 15 41 | 16 2 | 24 46 | 4 52 | 5 12 |
| T 28 | 7s50 | 23s20 | 5s 2 | 6s42 | 1s13 | 18s31 | 0s16 | 5n48 | 0s12 | 20n21 | 0s30 | 16s12 | 1s 0 | 11s13 | 0s43 | 20s17 | 0n21 | 18n37 | 4s52 | 15n39 | 16n 1 | 24n45 | 4s51 | 5n12 |

Julian Day Number = 2330681.5, Delta T = 30.33 sec
Ecliptic obliquity = 23°29'03, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'17, Lahiri = 19°14'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## MARCH 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 37 5 | 10♓59'30 | 22♒22 | 17♓50 | 9♒21 | 15♈52 | 3♊24 | 18♒47 | 2♓43 | 27♑51 | 28°R44 | 12°R26 | 13♉46 | 1♌41 | 5♓ 4 | F 1 |
| S 2 | 10 41 1 | 11°59'34 | 7♓24 | 19°47 | 10°35 | 16°37 | 3°30 | 18°54 | 2°47 | 27°53 | 28♊44 | 12♉16 | 13°42 | 1°48 | 5° 8 | S 2 |
| S 3 | 10 44 58 | 12°59'35 | 22°14 | 21°43 | 11°48 | 17°21 | 3°37 | 19° 1 | 2°50 | 27°55 | 28°43 | 12° 7 | 13°39 | 1°55 | 5°12 | S 3 |
| M 4 | 10 48 54 | 13°59'34 | 6♈46 | 23°39 | 13° 2 | 18° 5 | 3°44 | 19° 8 | 2°54 | 27°56 | 28°43 | 12° 0 | 13°36 | 2° 2 | 5°16 | M 4 |
| T 5 | 10 52 51 | 14°59'32 | 20°52 | 25°34 | 14°15 | 18°49 | 3°51 | 19°15 | 2°57 | 27°58 | 28°43 | 11°56 | 13°33 | 2° 8 | 5°20 | T 5 |
| W 6 | 10 56 48 | 15°59'27 | 4♉31 | 27°28 | 15°29 | 19°34 | 3°58 | 19°21 | 3° 0 | 28° 0 | 28°43 | 11°54 | 13°30 | 2°15 | 5°24 | W 6 |
| T 7 | 11 0 44 | 16°59'20 | 17°42 | 29°21 | 16°42 | 20°18 | 4° 5 | 19°28 | 3° 4 | 28° 1 | 28°43 | 11°D54 | 13°26 | 2°22 | 5°28 | T 7 |
| F 8 | 11 4 41 | 17°59'11 | 0♊28 | 1♈12 | 17°55 | 21° 2 | 4°13 | 19°35 | 3° 7 | 28° 3 | 28°43 | 11°55 | 13°23 | 2°28 | 5°32 | F 8 |
| S 9 | 11 8 37 | 18°59'00 | 12°53 | 3° 1 | 19° 9 | 21°46 | 4°21 | 19°41 | 3°10 | 28° 5 | 28°43 | 11°56 | 13°20 | 2°35 | 5°36 | S 9 |
| S 10 | 11 12 34 | 19°58'47 | 25° 2 | 4°47 | 20°22 | 22°30 | 4°28 | 19°48 | 3°14 | 28° 6 | 28°42 | 11°R56 | 13°17 | 2°42 | 5°39 | S 10 |
| M11 | 11 16 30 | 20°58'31 | 7♋ 1 | 6°31 | 21°36 | 23°14 | 4°36 | 19°54 | 3°17 | 28° 8 | 28°42 | 11°54 | 13°14 | 2°49 | 5°43 | M11 |
| T 12 | 11 20 27 | 21°58'13 | 18°53 | 8°10 | 22°49 | 23°57 | 4°44 | 20° 1 | 3°20 | 28° 9 | 28°D42 | 11°50 | 13°11 | 2°55 | 5°47 | T 12 |
| W13 | 11 24 23 | 22°57'52 | 0♌44 | 9°46 | 24° 3 | 24°41 | 4°52 | 20° 7 | 3°24 | 28°11 | 28°42 | 11°45 | 13° 7 | 3° 2 | 5°51 | W13 |
| T 14 | 11 28 20 | 23°57'30 | 12°37 | 11°16 | 25°16 | 25°25 | 5° 1 | 20°14 | 3°27 | 28°12 | 28°42 | 11°37 | 13° 4 | 3° 9 | 5°55 | T 14 |
| F 15 | 11 32 17 | 24°57'05 | 24°36 | 12°42 | 26°30 | 26° 9 | 5° 9 | 20°20 | 3°30 | 28°14 | 28°43 | 11°28 | 13° 1 | 3°16 | 5°59 | F 15 |
| S 16 | 11 36 13 | 25°56'38 | 6♍43 | 14° 3 | 27°43 | 26°53 | 5°18 | 20°27 | 3°34 | 28°15 | 28°43 | 11°19 | 12°58 | 3°22 | 6° 2 | S 16 |
| S 17 | 11 40 10 | 26°56'09 | 18°58 | 15°17 | 28°57 | 27°36 | 5°26 | 20°33 | 3°37 | 28°17 | 28°43 | 11°11 | 12°55 | 3°29 | 6° 6 | S 17 |
| M18 | 11 44 6 | 27°55'38 | 1♎25 | 16°26 | 0♓10 | 28°20 | 5°35 | 20°39 | 3°40 | 28°18 | 28°43 | 11° 4 | 12°52 | 3°36 | 6°10 | M18 |
| T 19 | 11 48 3 | 28°55'04 | 14° 1 | 17°28 | 1°24 | 29° 3 | 5°44 | 20°45 | 3°43 | 28°19 | 28°43 | 10°59 | 12°48 | 3°42 | 6°14 | T 19 |
| W20 | 11 51 59 | 29°54'29 | 26°50 | 18°23 | 2°37 | 29°47 | 5°53 | 20°51 | 3°46 | 28°21 | 28°43 | 10°56 | 12°45 | 3°49 | 6°17 | W20 |
| T 21 | 11 55 56 | 0♈53'52 | 9♏49 | 19°11 | 3°51 | 0♉30 | 6° 2 | 20°58 | 3°50 | 28°22 | 28°43 | 10°D55 | 12°42 | 3°56 | 6°21 | T 21 |
| F 22 | 11 59 52 | 1°53'13 | 23° 2 | 19°52 | 5° 4 | 1°14 | 6°12 | 21° 4 | 3°53 | 28°23 | 28°44 | 10°56 | 12°39 | 4° 3 | 6°25 | F 22 |
| S 23 | 12 3 49 | 2°52'32 | 6♐27 | 20°25 | 6°18 | 1°57 | 6°21 | 21°10 | 3°56 | 28°25 | 28°44 | 10°57 | 12°36 | 4° 9 | 6°28 | S 23 |
| S 24 | 12 7 46 | 3°51'50 | 20° 6 | 20°51 | 7°31 | 2°40 | 6°30 | 21°16 | 3°59 | 28°26 | 28°44 | 10°58 | 12°32 | 4°16 | 6°32 | S 24 |
| M25 | 12 11 42 | 4°51'06 | 4♑ 0 | 21° 9 | 8°45 | 3°24 | 6°40 | 21°22 | 4° 2 | 28°27 | 28°44 | 10°R59 | 12°29 | 4°23 | 6°36 | M25 |
| T 26 | 12 15 39 | 5°50'20 | 18° 8 | 21°20 | 9°58 | 4° 7 | 6°50 | 21°27 | 4° 5 | 28°28 | 28°45 | 10°58 | 12°26 | 4°29 | 6°39 | T 26 |
| W27 | 12 19 35 | 6°49'32 | 2♒29 | 21°R24 | 11°12 | 4°50 | 7° 0 | 21°33 | 4° 8 | 28°29 | 28°45 | 10°56 | 12°23 | 4°36 | 6°43 | W27 |
| T 28 | 12 23 32 | 7°48'43 | 17° 0 | 21°21 | 12°25 | 5°33 | 7°10 | 21°39 | 4°11 | 28°30 | 28°45 | 10°53 | 12°20 | 4°43 | 6°46 | T 28 |
| F 29 | 12 27 28 | 8°47'51 | 1♓36 | 21°11 | 13°39 | 6°16 | 7°20 | 21°45 | 4°14 | 28°31 | 28°46 | 10°48 | 12°17 | 4°50 | 6°50 | F 29 |
| S 30 | 12 31 25 | 9°46'58 | 16°11 | 20°54 | 14°53 | 6°59 | 7°30 | 21°50 | 4°17 | 28°32 | 28°46 | 10°43 | 12°13 | 4°56 | 6°53 | S 30 |
| S 31 | 12 35 21 | 10♈46'03 | 0♈39 | 20♈31 | 16♓ 6 | 7♉42 | 7♊40 | 21♒56 | 4♓20 | 28♑33 | 28♊46 | 10♉39 | 12♉10 | 5♌ 3 | 6♓57 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 7s27 | 18s47 | 4s59 | 5s49 | 1s 5 | 18s15 | 0s19 | 6n 5 | 0s11 | 20n23 | 0s30 | 16s10 | 1s 0 | 11s12 | 0s43 | 20s17 | 0n21 | 18n37 | 4s52 | 15n36 | 16n 0 | 24n43 | 4s49 | 5n12 |
| S 2 | 7 5 | 13 4 | 4 35 | 4 55 | 0 56 | 17 58 | 0 22 | 6 23 | 0 10 | 20 24 | 0 30 | 16 8 | 1 0 | 11 11 | 0 43 | 20 17 | 0 21 | 18 37 | 4 52 | 15 33 | 15 59 | 24 42 | 4 48 | 5 12 |
| S 3 | 6 42 | 6 39 | 3 53 | 4 1 | 0 47 | 17 40 | 0 25 | 6 41 | 0 9 | 20 26 | 0 30 | 16 6 | 1 0 | 11 9 | 0 43 | 20 16 | 0 21 | 18 37 | 4 51 | 15 30 | 15 58 | 24 41 | 4 46 | 5 12 |
| M 4 | 6 19 | 0 0 | 2 56 | 3 6 | 0 37 | 17 22 | 0 27 | 6 58 | 0 9 | 20 27 | 0 30 | 16 4 | 1 0 | 11 8 | 0 43 | 20 16 | 0 21 | 18 37 | 4 51 | 15 28 | 15 57 | 24 39 | 4 45 | 5 12 |
| T 5 | 5 55 | 6n28 | 1 50 | 2 11 | 0 27 | 17 4 | 0 30 | 7 16 | 0 8 | 20 29 | 0 29 | 16 2 | 1 0 | 11 7 | 0 44 | 20 16 | 0 21 | 18 38 | 4 51 | 15 27 | 15 56 | 24 38 | 4 44 | 5 12 |
| W 6 | 5 32 | 12 26 | 0 39 | 1 15 | 0 16 | 16 45 | 0 33 | 7 33 | 0 7 | 20 30 | 0 29 | 16 0 | 1 0 | 11 6 | 0 44 | 20 15 | 0 21 | 18 38 | 4 51 | 15 26 | 15 55 | 24 36 | 4 42 | 5 12 |
| T 7 | 5 9 | 17 38 | 0n31 | 0 20 | 0 5 | 16 26 | 0 36 | 7 51 | 0 6 | 20 32 | 0 29 | 15 58 | 1 1 | 11 5 | 0 44 | 20 15 | 0 21 | 18 38 | 4 51 | 15 26 | 15 54 | 24 35 | 4 41 | 5 12 |
| F 8 | 4 45 | 21 53 | 1 38 | 0n35 | 0n 7 | 16 6 | 0 38 | 8 8 | 0 6 | 20 33 | 0 29 | 15 56 | 1 1 | 11 3 | 0 44 | 20 15 | 0 21 | 18 38 | 4 51 | 15 26 | 15 53 | 24 34 | 4 39 | 5 12 |
| S 9 | 4 22 | 25 0 | 2 38 | 1 30 | 0 19 | 15 45 | 0 41 | 8 25 | 0 5 | 20 35 | 0 29 | 15 54 | 1 1 | 11 2 | 0 44 | 20 14 | 0 21 | 18 38 | 4 50 | 15 27 | 15 52 | 24 32 | 4 38 | 5 12 |
| S 10 | 3 59 | 26 54 | 3 30 | 2 23 | 0 31 | 15 25 | 0 43 | 8 42 | 0 4 | 20 37 | 0 28 | 15 52 | 1 1 | 11 1 | 0 44 | 20 14 | 0 21 | 18 38 | 4 50 | 15 27 | 15 51 | 24 31 | 4 37 | 5 12 |
| M11 | 3 35 | 27 30 | 4 12 | 3 16 | 0 44 | 15 3 | 0 46 | 8 59 | 0 3 | 20 38 | 0 28 | 15 50 | 1 1 | 11 0 | 0 44 | 20 14 | 0 21 | 18 39 | 4 50 | 15 26 | 15 50 | 24 29 | 4 35 | 5 12 |
| T 12 | 3 11 | 26 49 | 4 43 | 4 7 | 0 57 | 14 42 | 0 48 | 9 16 | 0 3 | 20 40 | 0 28 | 15 48 | 1 1 | 10 59 | 0 44 | 20 13 | 0 21 | 18 39 | 4 50 | 15 25 | 15 49 | 24 28 | 4 34 | 5 12 |
| W13 | 2 48 | 24 56 | 5 1 | 4 57 | 1 10 | 14 20 | 0 51 | 9 33 | 0 2 | 20 42 | 0 28 | 15 46 | 1 1 | 10 57 | 0 44 | 20 13 | 0 21 | 18 39 | 4 50 | 15 23 | 15 48 | 24 26 | 4 32 | 5 12 |
| T 14 | 2 24 | 21 57 | 5 7 | 5 44 | 1 23 | 13 57 | 0 53 | 9 50 | 0 1 | 20 43 | 0 28 | 15 44 | 1 1 | 10 56 | 0 44 | 20 13 | 0 21 | 18 39 | 4 50 | 15 21 | 15 47 | 24 25 | 4 31 | 5 13 |
| F 15 | 2 1 | 18 2 | 4 59 | 6 29 | 1 35 | 13 34 | 0 55 | 10 6 | 0 1 | 20 45 | 0 27 | 15 42 | 1 1 | 10 55 | 0 44 | 20 13 | 0 21 | 18 39 | 4 49 | 15 18 | 15 47 | 24 24 | 4 29 | 5 13 |
| S 16 | 1 37 | 13 21 | 4 38 | 7 12 | 1 48 | 13 11 | 0 57 | 10 23 | 0n 0 | 20 47 | 0 27 | 15 40 | 1 2 | 10 54 | 0 44 | 20 12 | 0 21 | 18 39 | 4 49 | 15 15 | 15 46 | 24 22 | 4 28 | 5 13 |
| S 17 | 1 13 | 8 6 | 4 3 | 7 53 | 2 0 | 12 48 | 0 59 | 10 39 | 0 1 | 20 48 | 0 27 | 15 39 | 1 2 | 10 53 | 0 44 | 20 12 | 0 21 | 18 40 | 4 49 | 15 13 | 15 45 | 24 21 | 4 27 | 5 13 |
| M18 | 0 50 | 2 27 | 3 17 | 8 30 | 2 12 | 12 24 | 1 2 | 10 55 | 0 2 | 20 50 | 0 27 | 15 37 | 1 2 | 10 52 | 0 44 | 20 12 | 0 21 | 18 40 | 4 49 | 15 11 | 15 44 | 24 19 | 4 25 | 5 13 |
| T 19 | 0 26 | 3s23 | 2 20 | 9 4 | 2 23 | 11 59 | 1 4 | 11 12 | 0 2 | 20 52 | 0 27 | 15 35 | 1 2 | 10 50 | 0 44 | 20 11 | 0 21 | 18 40 | 4 49 | 15 9 | 15 43 | 24 18 | 4 24 | 5 13 |
| W20 | 0 2 | 9 11 | 1 16 | 9 35 | 2 33 | 11 35 | 1 6 | 11 28 | 0 3 | 20 54 | 0 27 | 15 33 | 1 2 | 10 49 | 0 44 | 20 11 | 0 21 | 18 40 | 4 49 | 15 8 | 15 42 | 24 16 | 4 22 | 5 13 |
| T 21 | 0n21 | 14 42 | 0 6 | 10 2 | 2 43 | 11 10 | 1 7 | 11 44 | 0 4 | 20 55 | 0 26 | 15 31 | 1 2 | 10 48 | 0 44 | 20 11 | 0 21 | 18 40 | 4 48 | 15 8 | 15 41 | 24 15 | 4 21 | 5 13 |
| F 22 | 0 45 | 19 37 | 1s 5 | 10 26 | 2 52 | 10 45 | 1 9 | 11 59 | 0 4 | 20 57 | 0 26 | 15 29 | 1 2 | 10 47 | 0 44 | 20 11 | 0 21 | 18 40 | 4 48 | 15 8 | 15 40 | 24 13 | 4 20 | 5 13 |
| S 23 | 1 9 | 23 38 | 2 14 | 10 45 | 2 59 | 10 19 | 1 11 | 12 15 | 0 5 | 20 59 | 0 26 | 15 28 | 1 2 | 10 46 | 0 44 | 20 10 | 0 21 | 18 41 | 4 48 | 15 8 | 15 39 | 24 12 | 4 18 | 5 13 |
| S 24 | 1 32 | 26 23 | 3 17 | 11 1 | 3 6 | 9 53 | 1 13 | 12 31 | 0 6 | 21 1 | 0 26 | 15 26 | 1 3 | 10 45 | 0 44 | 20 10 | 0 21 | 18 41 | 4 48 | 15 9 | 15 38 | 24 10 | 4 17 | 5 13 |
| M25 | 1 56 | 27 34 | 4 9 | 11 14 | 3 12 | 9 27 | 1 14 | 12 46 | 0 6 | 21 2 | 0 26 | 15 24 | 1 3 | 10 44 | 0 44 | 20 10 | 0 21 | 18 41 | 4 48 | 15 9 | 15 37 | 24 9 | 4 15 | 5 13 |
| T 26 | 2 19 | 27 0 | 4 47 | 11 22 | 3 16 | 9 1 | 1 16 | 13 1 | 0 7 | 21 4 | 0 26 | 15 22 | 1 3 | 10 43 | 0 44 | 20 10 | 0 21 | 18 41 | 4 48 | 15 9 | 15 36 | 24 7 | 4 14 | 5 13 |
| W27 | 2 43 | 24 38 | 5 8 | 11 26 | 3 19 | 8 34 | 1 18 | 13 17 | 0 8 | 21 6 | 0 25 | 15 20 | 1 3 | 10 41 | 0 44 | 20 9 | 0 21 | 18 41 | 4 47 | 15 8 | 15 35 | 24 6 | 4 13 | 5 13 |
| T 28 | 3 6 | 20 41 | 5 10 | 11 26 | 3 20 | 8 8 | 1 19 | 13 32 | 0 8 | 21 8 | 0 25 | 15 19 | 1 3 | 10 40 | 0 44 | 20 9 | 0 21 | 18 41 | 4 47 | 15 7 | 15 34 | 24 4 | 4 11 | 5 13 |
| F 29 | 3 30 | 15 27 | 4 51 | 11 21 | 3 20 | 7 41 | 1 20 | 13 47 | 0 9 | 21 10 | 0 25 | 15 17 | 1 3 | 10 39 | 0 44 | 20 9 | 0 21 | 18 42 | 4 47 | 15 6 | 15 33 | 24 2 | 4 10 | 5 14 |
| S 30 | 3 53 | 9 22 | 4 14 | 11 14 | 3 18 | 7 13 | 1 22 | 14 1 | 0 10 | 21 12 | 0 25 | 15 15 | 1 3 | 10 38 | 0 44 | 20 9 | 0 21 | 18 42 | 4 47 | 15 4 | 15 32 | 24 1 | 4 8 | 5 14 |
| S 31 | 4n16 | 2s49 | 3s21 | 11n 2 | 3n14 | 6s46 | 1s23 | 14n16 | 0n10 | 21n13 | 0s25 | 15s14 | 1s 4 | 10s37 | 0s44 | 20s 9 | 0n21 | 18n42 | 4s47 | 15n 3 | 15n31 | 23n59 | 4s 7 | 5n14 |

Julian Day Number = 2330709.5, Delta T = 30.28 sec
Ecliptic obliquity = 23°29'03, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'20, Lahiri = 19°14'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## APRIL 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 39 18 | 11♈45'05 | 14♈53 | 20°R 3 | 17♓20 | 8♉25 | 7♊51 | 22♒ 1 | 4♓23 | 28♑34 | 28♊47 | 10°R36 | 12♉ 7 | 5♌10 | 7♓ 0 | M 1 |
| T 2 | 12 43 15 | 12°44'06 | 28°48 | 19♈30 | 18°33 | 9° 8 | 8° 1 | 22° 7 | 4°26 | 28°35 | 28°47 | 10♉34 | 12° 4 | 5°17 | 7° 4 | T 2 |
| W 3 | 12 47 11 | 13°43'04 | 12♉21 | 18°53 | 19°47 | 9°51 | 8°12 | 22°12 | 4°29 | 28°36 | 28°48 | 10°D34 | 12° 1 | 5°23 | 7° 7 | W 3 |
| T 4 | 12 51 8 | 14°42'01 | 25°31 | 18°13 | 21° 0 | 10°34 | 8°22 | 22°17 | 4°32 | 28°37 | 28°48 | 10°34 | 11°57 | 5°30 | 7°10 | T 4 |
| F 5 | 12 55 4 | 15°40'55 | 8♊19 | 17°30 | 22°14 | 11°17 | 8°33 | 22°23 | 4°34 | 28°38 | 28°49 | 10°36 | 11°54 | 5°37 | 7°14 | F 5 |
| S 6 | 12 59 1 | 16°39'47 | 20°48 | 16°45 | 23°28 | 11°59 | 8°44 | 22°28 | 4°37 | 28°39 | 28°49 | 10°37 | 11°51 | 5°43 | 7°17 | S 6 |
| S 7 | 13 2 57 | 17°38'37 | 3♋ 1 | 16° 0 | 24°41 | 12°42 | 8°55 | 22°33 | 4°40 | 28°40 | 28°50 | 10°39 | 11°48 | 5°50 | 7°20 | S 7 |
| M 8 | 13 6 54 | 18°37'25 | 15° 2 | 15°14 | 25°55 | 13°25 | 9° 6 | 22°38 | 4°43 | 28°40 | 28°51 | 10°R40 | 11°45 | 5°57 | 7°23 | M 8 |
| T 9 | 13 10 50 | 19°36'10 | 26°57 | 14°30 | 27° 8 | 14° 7 | 9°17 | 22°43 | 4°45 | 28°41 | 28°51 | 10°39 | 11°42 | 6° 4 | 7°26 | T 9 |
| W10 | 13 14 47 | 20°34'53 | 8♌49 | 13°47 | 28°22 | 14°50 | 9°28 | 22°48 | 4°48 | 28°42 | 28°52 | 10°38 | 11°38 | 6°10 | 7°30 | W10 |
| T 11 | 13 18 44 | 21°33'34 | 20°45 | 13° 7 | 29°35 | 15°32 | 9°40 | 22°53 | 4°51 | 28°42 | 28°53 | 10°36 | 11°35 | 6°17 | 7°33 | T 11 |
| F 12 | 13 22 40 | 22°32'12 | 2♍46 | 12°30 | 0♈49 | 16°15 | 9°51 | 22°58 | 4°53 | 28°43 | 28°53 | 10°34 | 11°32 | 6°24 | 7°36 | F 12 |
| S 13 | 13 26 37 | 23°30'49 | 14°58 | 11°56 | 2° 2 | 16°57 | 10° 2 | 23° 2 | 4°56 | 28°44 | 28°54 | 10°31 | 11°29 | 6°30 | 7°39 | S 13 |
| S 14 | 13 30 33 | 24°29'23 | 27°22 | 11°26 | 3°16 | 17°39 | 10°14 | 23° 7 | 4°58 | 28°44 | 28°55 | 10°29 | 11°26 | 6°37 | 7°42 | S 14 |
| M15 | 13 34 30 | 25°27'55 | 10♎ 1 | 11° 1 | 4°29 | 18°22 | 10°26 | 23°12 | 5° 1 | 28°45 | 28°55 | 10°27 | 11°23 | 6°44 | 7°45 | M15 |
| T 16 | 13 38 26 | 26°26'25 | 22°54 | 10°41 | 5°43 | 19° 4 | 10°37 | 23°16 | 5° 3 | 28°45 | 28°56 | 10°25 | 11°19 | 6°51 | 7°48 | T 16 |
| W17 | 13 42 23 | 27°24'53 | 6♏ 4 | 10°25 | 6°57 | 19°46 | 10°49 | 23°21 | 5° 6 | 28°46 | 28°57 | 10°D25 | 11°16 | 6°57 | 7°50 | W17 |
| T 18 | 13 46 19 | 28°23'20 | 19°27 | 10°14 | 8°10 | 20°28 | 11° 1 | 23°25 | 5° 8 | 28°46 | 28°58 | 10°25 | 11°13 | 7° 4 | 7°53 | T 18 |
| F 19 | 13 50 16 | 29°21'44 | 3♐ 4 | 10° 9 | 9°24 | 21°10 | 11°13 | 23°29 | 5°10 | 28°46 | 28°58 | 10°25 | 11°10 | 7°11 | 7°56 | F 19 |
| S 20 | 13 54 12 | 0♉20'07 | 16°52 | 10°D 8 | 10°37 | 21°53 | 11°25 | 23°33 | 5°13 | 28°47 | 28°59 | 10°26 | 11° 7 | 7°18 | 7°59 | S 20 |
| S 21 | 13 58 9 | 1°18'29 | 0♑50 | 10°12 | 11°51 | 22°35 | 11°37 | 23°38 | 5°15 | 28°47 | 29° 0 | 10°27 | 11° 3 | 7°24 | 8° 2 | S 21 |
| M22 | 14 2 6 | 2°16'49 | 14°56 | 10°22 | 13° 4 | 23°17 | 11°49 | 23°42 | 5°17 | 28°47 | 29° 1 | 10°28 | 11° 0 | 7°31 | 8° 4 | M22 |
| T 23 | 14 6 2 | 3°15'07 | 29° 7 | 10°35 | 14°18 | 23°59 | 12° 1 | 23°46 | 5°20 | 28°48 | 29° 2 | 10°R28 | 10°57 | 7°38 | 8° 7 | T 23 |
| W24 | 14 9 59 | 4°13'24 | 13♒21 | 10°54 | 15°31 | 24°40 | 12°13 | 23°49 | 5°22 | 28°48 | 29° 3 | 10°28 | 10°54 | 7°44 | 8° 9 | W24 |
| T 25 | 14 13 55 | 5°11'39 | 27°36 | 11°17 | 16°45 | 25°22 | 12°26 | 23°53 | 5°24 | 28°48 | 29° 4 | 10°28 | 10°51 | 7°51 | 8°12 | T 25 |
| F 26 | 14 17 52 | 6° 9'53 | 11♓48 | 11°45 | 17°58 | 26° 4 | 12°38 | 23°57 | 5°26 | 28°48 | 29° 5 | 10°27 | 10°48 | 7°58 | 8°15 | F 26 |
| S 27 | 14 21 48 | 7° 8'05 | 25°55 | 12°16 | 19°12 | 26°46 | 12°50 | 24° 1 | 5°28 | 28°48 | 29° 6 | 10°27 | 10°44 | 8° 5 | 8°17 | S 27 |
| S 28 | 14 25 45 | 8° 6'16 | 9♈54 | 12°52 | 20°25 | 27°28 | 13° 3 | 24° 4 | 5°30 | 28°48 | 29° 7 | 10°26 | 10°41 | 8°11 | 8°19 | S 28 |
| M29 | 14 29 41 | 9° 4'25 | 23°41 | 13°32 | 21°39 | 28° 9 | 13°16 | 24° 8 | 5°32 | 28°48 | 29° 8 | 10°26 | 10°38 | 8°18 | 8°22 | M29 |
| T 30 | 14 33 38 | 10♉ 2'32 | 7♉14 | 14♈15 | 22♈53 | 28♉51 | 13♊28 | 24♒11 | 5♓34 | 28°R48 | 29♊ 9 | 10♉26 | 10♉35 | 8♌25 | 8♓24 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 4n39 | 3n47 | 2s16 | 10n46 | 3n 9 | 6s18 | 1s24 | 14n31 | 0n11 | 21n15 | 0s25 | 15s12 | 1s 4 | 10s36 | 0s44 | 20s 8 | 0n21 | 18n42 | 4s47 | 15n 2 | 15n30 | 23n58 | 4s 6 | 5n14 |
| T 2 | 5 2 | 10 4 | 1 4 | 10 28 | 3 3 | 5 50 | 1 25 | 14 45 | 0 12 | 21 17 | 0 24 | 15 10 | 1 4 | 10 35 | 0 44 | 20 8 | 0 21 | 18 42 | 4 47 | 15 1 | 15 29 | 23 56 | 4 4 | 5 14 |
| W 3 | 5 25 | 15 44 | 0n10 | 10 6 | 2 54 | 5 22 | 1 26 | 14 59 | 0 12 | 21 19 | 0 24 | 15 9 | 1 4 | 10 34 | 0 44 | 20 8 | 0 21 | 18 42 | 4 46 | 15 1 | 15 28 | 23 55 | 4 3 | 5 14 |
| T 4 | 5 48 | 20 29 | 1 21 | 9 41 | 2 45 | 4 54 | 1 27 | 15 13 | 0 13 | 21 21 | 0 24 | 15 7 | 1 4 | 10 33 | 0 44 | 20 8 | 0 21 | 18 43 | 4 46 | 15 1 | 15 27 | 23 53 | 4 2 | 5 14 |
| F 5 | 6 11 | 24 9 | 2 27 | 9 15 | 2 34 | 4 26 | 1 28 | 15 27 | 0 14 | 21 23 | 0 24 | 15 6 | 1 4 | 10 32 | 0 44 | 20 8 | 0 21 | 18 43 | 4 46 | 15 2 | 15 26 | 23 51 | 4 0 | 5 14 |
| S 6 | 6 34 | 26 33 | 3 23 | 8 46 | 2 21 | 3 58 | 1 29 | 15 41 | 0 14 | 21 25 | 0 24 | 15 4 | 1 4 | 10 31 | 0 44 | 20 8 | 0 21 | 18 43 | 4 46 | 15 2 | 15 25 | 23 50 | 3 59 | 5 15 |
| S 7 | 6 56 | 27 36 | 4 9 | 8 16 | 2 8 | 3 29 | 1 30 | 15 55 | 0 15 | 21 26 | 0 24 | 15 2 | 1 5 | 10 30 | 0 44 | 20 7 | 0 21 | 18 43 | 4 46 | 15 3 | 15 24 | 23 48 | 3 58 | 5 15 |
| M 8 | 7 19 | 27 20 | 4 44 | 7 45 | 1 53 | 3 1 | 1 30 | 16 8 | 0 15 | 21 28 | 0 23 | 15 1 | 1 5 | 10 29 | 0 44 | 20 7 | 0 21 | 18 43 | 4 46 | 15 3 | 15 23 | 23 47 | 3 56 | 5 15 |
| T 9 | 7 41 | 25 48 | 5 6 | 7 14 | 1 38 | 2 32 | 1 31 | 16 22 | 0 16 | 21 30 | 0 23 | 14 59 | 1 5 | 10 28 | 0 44 | 20 7 | 0 21 | 18 43 | 4 45 | 15 3 | 15 22 | 23 45 | 3 55 | 5 15 |
| W10 | 8 3 | 23 8 | 5 14 | 6 42 | 1 22 | 2 3 | 1 31 | 16 35 | 0 17 | 21 32 | 0 23 | 14 58 | 1 5 | 10 27 | 0 44 | 20 7 | 0 21 | 18 44 | 4 45 | 15 3 | 15 21 | 23 43 | 3 54 | 5 15 |
| T 11 | 8 25 | 19 30 | 5 10 | 6 11 | 1 5 | 1 34 | 1 32 | 16 48 | 0 17 | 21 34 | 0 23 | 14 56 | 1 5 | 10 26 | 0 44 | 20 7 | 0 21 | 18 44 | 4 45 | 15 2 | 15 20 | 23 42 | 3 52 | 5 15 |
| F 12 | 8 47 | 15 2 | 4 51 | 5 42 | 0 49 | 1 5 | 1 32 | 17 1 | 0 18 | 21 36 | 0 23 | 14 55 | 1 5 | 10 25 | 0 44 | 20 7 | 0 21 | 18 44 | 4 45 | 15 1 | 15 19 | 23 40 | 3 51 | 5 15 |
| S 13 | 9 9 | 9 56 | 4 20 | 5 13 | 0 32 | 0 36 | 1 33 | 17 14 | 0 19 | 21 37 | 0 23 | 14 54 | 1 6 | 10 24 | 0 44 | 20 7 | 0 21 | 18 44 | 4 45 | 15 0 | 15 18 | 23 38 | 3 50 | 5 16 |
| S 14 | 9 30 | 4 21 | 3 36 | 4 46 | 0 15 | 0 7 | 1 33 | 17 26 | 0 19 | 21 39 | 0 23 | 14 52 | 1 6 | 10 24 | 0 44 | 20 6 | 0 21 | 18 44 | 4 45 | 15 0 | 15 17 | 23 37 | 3 49 | 5 16 |
| M15 | 9 52 | 1s31 | 2 40 | 4 21 | 0s 1 | 0n22 | 1 33 | 17 39 | 0 20 | 21 41 | 0 22 | 14 51 | 1 6 | 10 23 | 0 44 | 20 6 | 0 21 | 18 44 | 4 44 | 14 59 | 15 16 | 23 35 | 3 47 | 5 16 |
| T 16 | 10 13 | 7 27 | 1 35 | 3 58 | 0 17 | 0 51 | 1 33 | 17 51 | 0 20 | 21 43 | 0 22 | 14 50 | 1 6 | 10 22 | 0 44 | 20 6 | 0 21 | 18 44 | 4 44 | 14 58 | 15 15 | 23 33 | 3 46 | 5 16 |
| W17 | 10 34 | 13 11 | 0 24 | 3 38 | 0 33 | 1 20 | 1 33 | 18 3 | 0 21 | 21 45 | 0 22 | 14 48 | 1 6 | 10 21 | 0 44 | 20 6 | 0 21 | 18 45 | 4 44 | 14 58 | 15 14 | 23 32 | 3 45 | 5 16 |
| T 18 | 10 55 | 18 26 | 0s50 | 3 20 | 0 48 | 1 49 | 1 33 | 18 15 | 0 22 | 21 46 | 0 22 | 14 47 | 1 6 | 10 20 | 0 44 | 20 6 | 0 21 | 18 45 | 4 44 | 14 58 | 15 13 | 23 30 | 3 44 | 5 16 |
| F 19 | 11 16 | 22 48 | 2 2 | 3 4 | 1 2 | 2 18 | 1 33 | 18 27 | 0 22 | 21 48 | 0 22 | 14 46 | 1 7 | 10 19 | 0 44 | 20 6 | 0 21 | 18 45 | 4 44 | 14 59 | 15 12 | 23 28 | 3 43 | 5 17 |
| S 20 | 11 37 | 25 57 | 3 8 | 2 51 | 1 16 | 2 47 | 1 33 | 18 38 | 0 23 | 21 50 | 0 22 | 14 45 | 1 7 | 10 18 | 0 44 | 20 6 | 0 21 | 18 45 | 4 44 | 14 59 | 15 11 | 23 27 | 3 41 | 5 17 |
| S 21 | 11 57 | 27 33 | 4 4 | 2 41 | 1 29 | 3 16 | 1 33 | 18 50 | 0 23 | 21 52 | 0 22 | 14 43 | 1 7 | 10 18 | 0 44 | 20 6 | 0 21 | 18 45 | 4 44 | 14 59 | 15 10 | 23 25 | 3 40 | 5 17 |
| M22 | 12 17 | 27 23 | 4 46 | 2 34 | 1 41 | 3 45 | 1 33 | 19 1 | 0 24 | 21 54 | 0 21 | 14 42 | 1 7 | 10 17 | 0 45 | 20 6 | 0 21 | 18 45 | 4 43 | 14 59 | 15 9 | 23 23 | 3 39 | 5 17 |
| T 23 | 12 37 | 25 26 | 5 10 | 2 29 | 1 52 | 4 14 | 1 32 | 19 12 | 0 24 | 21 55 | 0 21 | 14 41 | 1 7 | 10 16 | 0 45 | 20 6 | 0 21 | 18 46 | 4 43 | 14 59 | 15 8 | 23 21 | 3 38 | 5 17 |
| W24 | 12 57 | 21 53 | 5 16 | 2 26 | 2 3 | 4 43 | 1 32 | 19 23 | 0 25 | 21 57 | 0 21 | 14 40 | 1 7 | 10 15 | 0 45 | 20 6 | 0 21 | 18 46 | 4 43 | 14 59 | 15 7 | 23 20 | 3 37 | 5 18 |
| T 25 | 13 17 | 17 4 | 5 3 | 2 26 | 2 13 | 5 11 | 1 31 | 19 33 | 0 26 | 21 59 | 0 21 | 14 39 | 1 8 | 10 14 | 0 45 | 20 6 | 0 21 | 18 46 | 4 43 | 14 59 | 15 6 | 23 18 | 3 36 | 5 18 |
| F 26 | 13 36 | 11 19 | 4 31 | 2 29 | 2 22 | 5 40 | 1 31 | 19 44 | 0 26 | 22 1 | 0 21 | 14 38 | 1 8 | 10 14 | 0 45 | 20 6 | 0 21 | 18 46 | 4 43 | 14 59 | 15 5 | 23 16 | 3 35 | 5 18 |
| S 27 | 13 55 | 5 1 | 3 42 | 2 33 | 2 30 | 6 8 | 1 30 | 19 54 | 0 27 | 22 2 | 0 21 | 14 37 | 1 8 | 10 13 | 0 45 | 20 6 | 0 21 | 18 46 | 4 43 | 14 59 | 15 4 | 23 14 | 3 33 | 5 18 |
| S 28 | 14 14 | 1n27 | 2 41 | 2 41 | 2 37 | 6 37 | 1 29 | 20 4 | 0 27 | 22 4 | 0 21 | 14 36 | 1 8 | 10 12 | 0 45 | 20 6 | 0 21 | 18 46 | 4 43 | 14 59 | 15 3 | 23 13 | 3 32 | 5 18 |
| M29 | 14 33 | 7 48 | 1 32 | 2 50 | 2 44 | 7 5 | 1 29 | 20 14 | 0 28 | 22 6 | 0 21 | 14 35 | 1 8 | 10 12 | 0 45 | 20 6 | 0 21 | 18 46 | 4 42 | 14 59 | 15 2 | 23 11 | 3 31 | 5 19 |
| T 30 | 14n51 | 13n40 | 0s18 | 3n 1 | 2s50 | 7n33 | 1s28 | 20n24 | 0n28 | 22n 7 | 0s20 | 14s34 | 1s 8 | 10s11 | 0s45 | 20s 6 | 0n21 | 18n47 | 4s42 | 14n59 | 15n 1 | 23n 9 | 3s30 | 5n19 |

Julian Day Number = 2330740.5, Delta T = 30.22 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'25, Lahiri = 19°14'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## MAY 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 37 35 | 11♉ 0'38 | 20♉31 | 15♈ 2 | 24♈ 6 | 29♉33 | 13♊41 | 24♒14 | 5♓36 | 28°R48 | 29♊10 | 10°R26 | 10♉32 | 8♌31 | 8♓26 | W 1 |
| T 2 | 14 41 31 | 11°58'42 | 3♊30 | 15°52 | 25°20 | 0♊14 | 13°53 | 24°18 | 5°38 | 28♑48 | 29°11 | 10♉26 | 10°29 | 8°38 | 8°29 | T 2 |
| F 3 | 14 45 28 | 12°56'45 | 16°13 | 16°45 | 26°33 | 0°56 | 14° 6 | 24°21 | 5°39 | 28°48 | 29°12 | 10°26 | 10°25 | 8°45 | 8°31 | F 3 |
| S 4 | 14 49 24 | 13°54'46 | 28°39 | 17°42 | 27°47 | 1°37 | 14°19 | 24°24 | 5°41 | 28°48 | 29°13 | 10°26 | 10°22 | 8°52 | 8°33 | S 4 |
| S 5 | 14 53 21 | 14°52'44 | 10♋52 | 18°42 | 29° 0 | 2°18 | 14°32 | 24°27 | 5°43 | 28°48 | 29°14 | 10°25 | 10°19 | 8°58 | 8°35 | S 5 |
| M 6 | 14 57 17 | 15°50'42 | 22°55 | 19°45 | 0♉14 | 3° 0 | 14°45 | 24°30 | 5°45 | 28°48 | 29°15 | 10°25 | 10°16 | 9° 5 | 8°37 | M 6 |
| T 7 | 15 1 14 | 16°48'37 | 4♌50 | 20°50 | 1°27 | 3°41 | 14°58 | 24°32 | 5°46 | 28°48 | 29°16 | 10°24 | 10°13 | 9°12 | 8°39 | T 7 |
| W 8 | 15 5 10 | 17°46'30 | 16°43 | 21°59 | 2°41 | 4°23 | 15°11 | 24°35 | 5°48 | 28°48 | 29°17 | 10°D24 | 10° 9 | 9°19 | 8°41 | W 8 |
| T 9 | 15 9 7 | 18°44'22 | 28°39 | 23°10 | 3°54 | 5° 4 | 15°24 | 24°38 | 5°49 | 28°47 | 29°18 | 10°24 | 10° 6 | 9°25 | 8°43 | T 9 |
| F 10 | 15 13 4 | 19°42'12 | 10♍41 | 24°23 | 5° 8 | 5°45 | 15°37 | 24°40 | 5°51 | 28°47 | 29°20 | 10°25 | 10° 3 | 9°32 | 8°45 | F 10 |
| S 11 | 15 17 0 | 20°40'00 | 22°54 | 25°40 | 6°21 | 6°26 | 15°50 | 24°43 | 5°52 | 28°47 | 29°21 | 10°26 | 10° 0 | 9°39 | 8°46 | S 11 |
| S 12 | 15 20 57 | 21°37'46 | 5♎22 | 26°58 | 7°35 | 7° 7 | 16° 3 | 24°45 | 5°54 | 28°46 | 29°22 | 10°27 | 9°57 | 9°45 | 8°48 | S 12 |
| M13 | 15 24 53 | 22°35'31 | 18° 9 | 28°20 | 8°48 | 7°48 | 16°16 | 24°47 | 5°55 | 28°46 | 29°23 | 10°28 | 9°54 | 9°52 | 8°50 | M13 |
| T 14 | 15 28 50 | 23°33'15 | 1♏15 | 29°43 | 10° 2 | 8°29 | 16°29 | 24°49 | 5°56 | 28°46 | 29°24 | 10°28 | 9°50 | 9°59 | 8°51 | T 14 |
| W15 | 15 32 46 | 24°30'56 | 14°42 | 1♑ 9 | 11°15 | 9°10 | 16°43 | 24°51 | 5°58 | 28°45 | 29°26 | 10°R28 | 9°47 | 10° 6 | 8°53 | W15 |
| T 16 | 15 36 43 | 25°28'37 | 28°29 | 2°38 | 12°29 | 9°51 | 16°56 | 24°53 | 5°59 | 28°45 | 29°27 | 10°28 | 9°44 | 10°12 | 8°55 | T 16 |
| F 17 | 15 40 39 | 26°26'16 | 12♐32 | 4° 9 | 13°42 | 10°32 | 17° 9 | 24°55 | 6° 0 | 28°44 | 29°28 | 10°26 | 9°41 | 10°19 | 8°56 | F 17 |
| S 18 | 15 44 36 | 27°23'54 | 26°49 | 5°42 | 14°56 | 11°13 | 17°23 | 24°57 | 6° 1 | 28°44 | 29°29 | 10°24 | 9°38 | 10°26 | 8°57 | S 18 |
| S 19 | 15 48 33 | 28°21'31 | 11♑14 | 7°17 | 16° 9 | 11°54 | 17°36 | 24°58 | 6° 2 | 28°43 | 29°31 | 10°22 | 9°35 | 10°33 | 8°59 | S 19 |
| M20 | 15 52 29 | 29°19'07 | 25°41 | 8°55 | 17°23 | 12°35 | 17°49 | 25° 0 | 6° 3 | 28°42 | 29°32 | 10°20 | 9°31 | 10°39 | 9° 0 | M20 |
| T 21 | 15 56 26 | 0♊16'42 | 10♒ 6 | 10°35 | 18°36 | 13°15 | 18° 3 | 25° 2 | 6° 4 | 28°42 | 29°33 | 10°18 | 9°28 | 10°46 | 9° 1 | T 21 |
| W22 | 16 0 22 | 1°14'16 | 24°24 | 12°17 | 19°50 | 13°56 | 18°16 | 25° 3 | 6° 5 | 28°41 | 29°35 | 10°17 | 9°25 | 10°53 | 9° 3 | W22 |
| T 23 | 16 4 19 | 2°11'50 | 8♓34 | 14° 2 | 21° 3 | 14°37 | 18°30 | 25° 4 | 6° 6 | 28°40 | 29°36 | 10°D17 | 9°22 | 10°59 | 9° 4 | T 23 |
| F 24 | 16 8 15 | 3° 9'22 | 22°32 | 15°49 | 22°17 | 15°18 | 18°43 | 25° 5 | 6° 7 | 28°40 | 29°37 | 10°18 | 9°19 | 11° 6 | 9° 5 | F 24 |
| S 25 | 16 12 12 | 4° 6'53 | 6♈19 | 17°38 | 23°30 | 15°58 | 18°57 | 25° 6 | 6° 8 | 28°39 | 29°39 | 10°19 | 9°15 | 11°13 | 9° 6 | S 25 |
| S 26 | 16 16 9 | 5° 4'24 | 19°52 | 19°30 | 24°44 | 16°39 | 19°10 | 25° 7 | 6° 9 | 28°38 | 29°40 | 10°21 | 9°12 | 11°20 | 9° 7 | S 26 |
| M27 | 16 20 5 | 6° 1'54 | 3♉13 | 21°24 | 25°57 | 17°19 | 19°24 | 25° 8 | 6° 9 | 28°37 | 29°41 | 10°22 | 9° 9 | 11°26 | 9° 8 | M27 |
| T 28 | 16 24 2 | 6°59'23 | 16°22 | 23°19 | 27°11 | 18° 0 | 19°38 | 25° 9 | 6°10 | 28°37 | 29°43 | 10°R22 | 9° 6 | 11°33 | 9° 9 | T 28 |
| W29 | 16 27 58 | 7°56'51 | 29°17 | 25°18 | 28°25 | 18°40 | 19°51 | 25°10 | 6°11 | 28°36 | 29°44 | 10°21 | 9° 3 | 11°40 | 9° 9 | W29 |
| T 30 | 16 31 55 | 8°54'18 | 12♊ 0 | 27°18 | 29°38 | 19°21 | 20° 5 | 25°10 | 6°11 | 28°35 | 29°45 | 10°18 | 9° 0 | 11°47 | 9°10 | T 30 |
| F 31 | 16 35 51 | 9♊51'44 | 24♊31 | 29♉20 | 0♊52 | 20♊ 1 | 20♊19 | 25♒11 | 6♓12 | 28♑34 | 29♊47 | 10♉14 | 8♉56 | 11♌53 | 9♓11 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 15n10 | 18n48 | 0n56 | 3n15 | 2s55 | 8n 1 | 1s27 | 20n34 | 0n29 | 22n 9 | 0s20 | 14s33 | 1s 9 | 10s10 | 0s45 | 20s 6 | 0n21 | 18n47 | 4s42 | 14n59 | 15n 0 | 23n 7 | 3s29 | 5n19 |
| T 2 | 15 27 | 22 56 | 2 4 | 3 30 | 2 59 | 8 29 | 1 26 | 20 43 | 0 29 | 22 11 | 0 20 | 14 32 | 1 9 | 10 10 | 0 45 | 20 6 | 0 21 | 18 47 | 4 42 | 14 59 | 14 59 | 23 6 | 3 28 | 5 19 |
| F 3 | 15 45 | 25 51 | 3 5 | 3 47 | 3 2 | 8 56 | 1 25 | 20 52 | 0 30 | 22 12 | 0 20 | 14 31 | 1 9 | 10 9 | 0 45 | 20 6 | 0 21 | 18 47 | 4 42 | 14 59 | 14 58 | 23 4 | 3 27 | 5 20 |
| S 4 | 16 3 | 27 25 | 3 56 | 4 7 | 3 5 | 9 24 | 1 24 | 21 1 | 0 30 | 22 14 | 0 20 | 14 30 | 1 9 | 10 8 | 0 45 | 20 6 | 0 21 | 18 47 | 4 42 | 14 59 | 14 57 | 23 2 | 3 26 | 5 20 |
| S 5 | 16 20 | 27 37 | 4 36 | 4 27 | 3 7 | 9 51 | 1 23 | 21 10 | 0 31 | 22 16 | 0 20 | 14 29 | 1 9 | 10 8 | 0 45 | 20 6 | 0 21 | 18 47 | 4 42 | 14 58 | 14 56 | 23 0 | 3 25 | 5 20 |
| M 6 | 16 37 | 26 30 | 5 2 | 4 50 | 3 8 | 10 18 | 1 22 | 21 19 | 0 32 | 22 17 | 0 20 | 14 28 | 1 10 | 10 7 | 0 45 | 20 6 | 0 21 | 18 47 | 4 42 | 14 58 | 14 55 | 22 58 | 3 24 | 5 20 |
| T 7 | 16 53 | 24 11 | 5 15 | 5 14 | 3 9 | 10 45 | 1 20 | 21 27 | 0 32 | 22 19 | 0 20 | 14 28 | 1 10 | 10 7 | 0 45 | 20 6 | 0 21 | 18 47 | 4 41 | 14 58 | 14 54 | 22 57 | 3 23 | 5 20 |
| W 8 | 17 10 | 20 51 | 5 15 | 5 39 | 3 9 | 11 11 | 1 19 | 21 35 | 0 33 | 22 20 | 0 19 | 14 27 | 1 10 | 10 6 | 0 45 | 20 6 | 0 21 | 18 48 | 4 41 | 14 58 | 14 53 | 22 55 | 3 22 | 5 21 |
| T 9 | 17 26 | 16 40 | 5 1 | 6 6 | 3 8 | 11 37 | 1 18 | 21 44 | 0 33 | 22 22 | 0 19 | 14 26 | 1 10 | 10 6 | 0 45 | 20 6 | 0 21 | 18 48 | 4 41 | 14 58 | 14 52 | 22 53 | 3 21 | 5 21 |
| F 10 | 17 42 | 11 47 | 4 34 | 6 34 | 3 7 | 12 3 | 1 16 | 21 51 | 0 34 | 22 23 | 0 19 | 14 26 | 1 10 | 10 5 | 0 45 | 20 6 | 0 21 | 18 48 | 4 41 | 14 58 | 14 51 | 22 51 | 3 20 | 5 21 |
| S 11 | 17 57 | 6 24 | 3 54 | 7 4 | 3 5 | 12 29 | 1 15 | 21 59 | 0 34 | 22 25 | 0 19 | 14 25 | 1 10 | 10 5 | 0 45 | 20 6 | 0 21 | 18 48 | 4 41 | 14 59 | 14 50 | 22 49 | 3 20 | 5 21 |
| S 12 | 18 12 | 0 39 | 3 2 | 7 35 | 3 2 | 12 54 | 1 13 | 22 7 | 0 35 | 22 26 | 0 19 | 14 24 | 1 11 | 10 4 | 0 45 | 20 6 | 0 21 | 18 48 | 4 41 | 14 59 | 14 49 | 22 47 | 3 19 | 5 22 |
| M13 | 18 27 | 5s16 | 2 0 | 8 7 | 2 59 | 13 19 | 1 12 | 22 14 | 0 35 | 22 28 | 0 19 | 14 24 | 1 11 | 10 4 | 0 45 | 20 6 | 0 21 | 18 48 | 4 41 | 14 59 | 14 48 | 22 46 | 3 18 | 5 22 |
| T 14 | 18 42 | 11 8 | 0 51 | 8 40 | 2 55 | 13 44 | 1 10 | 22 21 | 0 36 | 22 29 | 0 19 | 14 23 | 1 11 | 10 3 | 0 45 | 20 6 | 0 21 | 18 48 | 4 41 | 14 59 | 14 47 | 22 44 | 3 17 | 5 22 |
| W15 | 18 56 | 16 39 | 0s23 | 9 14 | 2 51 | 14 9 | 1 9 | 22 28 | 0 36 | 22 31 | 0 19 | 14 23 | 1 11 | 10 3 | 0 45 | 20 6 | 0 21 | 18 48 | 4 40 | 14 59 | 14 46 | 22 42 | 3 16 | 5 22 |
| T 16 | 19 10 | 21 27 | 1 38 | 9 49 | 2 46 | 14 33 | 1 7 | 22 34 | 0 37 | 22 32 | 0 18 | 14 22 | 1 11 | 10 2 | 0 45 | 20 6 | 0 21 | 18 49 | 4 40 | 14 59 | 14 45 | 22 40 | 3 15 | 5 23 |
| F 17 | 19 24 | 25 7 | 2 48 | 10 25 | 2 40 | 14 57 | 1 5 | 22 41 | 0 37 | 22 34 | 0 18 | 14 22 | 1 12 | 10 2 | 0 45 | 20 6 | 0 21 | 18 49 | 4 40 | 14 59 | 14 44 | 22 38 | 3 15 | 5 23 |
| S 18 | 19 37 | 27 15 | 3 48 | 11 1 | 2 34 | 15 20 | 1 4 | 22 47 | 0 38 | 22 35 | 0 18 | 14 21 | 1 12 | 10 1 | 0 45 | 20 7 | 0 21 | 18 49 | 4 40 | 14 58 | 14 43 | 22 36 | 3 14 | 5 23 |
| S 19 | 19 50 | 27 35 | 4 35 | 11 39 | 2 28 | 15 43 | 1 2 | 22 53 | 0 38 | 22 36 | 0 18 | 14 21 | 1 12 | 10 1 | 0 45 | 20 7 | 0 21 | 18 49 | 4 40 | 14 57 | 14 42 | 22 34 | 3 13 | 5 23 |
| M20 | 20 3 | 26 2 | 5 5 | 12 17 | 2 21 | 16 6 | 1 0 | 22 59 | 0 38 | 22 38 | 0 18 | 14 21 | 1 12 | 10 1 | 0 46 | 20 7 | 0 21 | 18 49 | 4 40 | 14 57 | 14 41 | 22 32 | 3 12 | 5 24 |
| T 21 | 20 15 | 22 48 | 5 15 | 12 55 | 2 13 | 16 28 | 0 58 | 23 5 | 0 39 | 22 39 | 0 18 | 14 20 | 1 12 | 10 0 | 0 46 | 20 7 | 0 21 | 18 49 | 4 40 | 14 56 | 14 40 | 22 31 | 3 12 | 5 24 |
| W22 | 20 27 | 18 12 | 5 5 | 13 34 | 2 5 | 16 50 | 0 56 | 23 10 | 0 39 | 22 40 | 0 18 | 14 20 | 1 13 | 10 0 | 0 46 | 20 7 | 0 21 | 18 49 | 4 40 | 14 56 | 14 39 | 22 29 | 3 11 | 5 24 |
| T 23 | 20 38 | 12 39 | 4 37 | 14 14 | 1 57 | 17 11 | 0 54 | 23 15 | 0 40 | 22 42 | 0 18 | 14 20 | 1 13 | 10 0 | 0 46 | 20 7 | 0 21 | 18 49 | 4 40 | 14 56 | 14 38 | 22 27 | 3 10 | 5 24 |
| F 24 | 20 50 | 6 32 | 3 53 | 14 53 | 1 48 | 17 32 | 0 52 | 23 20 | 0 40 | 22 43 | 0 18 | 14 20 | 1 13 | 10 0 | 0 46 | 20 7 | 0 21 | 18 49 | 4 40 | 14 56 | 14 37 | 22 25 | 3 10 | 5 25 |
| S 25 | 21 1 | 0 11 | 2 56 | 15 33 | 1 38 | 17 53 | 0 50 | 23 25 | 0 41 | 22 44 | 0 17 | 14 20 | 1 13 | 9 59 | 0 46 | 20 7 | 0 21 | 18 50 | 4 39 | 14 57 | 14 36 | 22 23 | 3 9 | 5 25 |
| S 26 | 21 11 | 6n 5 | 1 50 | 16 13 | 1 29 | 18 13 | 0 48 | 23 30 | 0 41 | 22 45 | 0 17 | 14 19 | 1 13 | 9 59 | 0 46 | 20 8 | 0 21 | 18 50 | 4 39 | 14 57 | 14 35 | 22 21 | 3 8 | 5 25 |
| M27 | 21 21 | 12 0 | 0 39 | 16 52 | 1 19 | 18 32 | 0 46 | 23 34 | 0 42 | 22 46 | 0 17 | 14 19 | 1 14 | 9 59 | 0 46 | 20 8 | 0 21 | 18 50 | 4 39 | 14 57 | 14 34 | 22 19 | 3 8 | 5 25 |
| T 28 | 21 31 | 17 17 | 0n33 | 17 32 | 1 9 | 18 51 | 0 44 | 23 38 | 0 42 | 22 48 | 0 17 | 14 19 | 1 14 | 9 59 | 0 46 | 20 8 | 0 21 | 18 50 | 4 39 | 14 57 | 14 33 | 22 17 | 3 7 | 5 26 |
| W29 | 21 40 | 21 41 | 1 42 | 18 11 | 0 58 | 19 10 | 0 42 | 23 42 | 0 43 | 22 49 | 0 17 | 14 19 | 1 14 | 9 58 | 0 46 | 20 8 | 0 21 | 18 50 | 4 39 | 14 57 | 14 32 | 22 15 | 3 7 | 5 26 |
| T 30 | 21 50 | 24 59 | 2 44 | 18 49 | 0 48 | 19 28 | 0 39 | 23 46 | 0 43 | 22 50 | 0 17 | 14 19 | 1 14 | 9 58 | 0 46 | 20 8 | 0 21 | 18 50 | 4 39 | 14 56 | 14 31 | 22 13 | 3 6 | 5 26 |
| F 31 | 21n58 | 27n 0 | 3n38 | 19n27 | 0s37 | 19n46 | 0s37 | 23n50 | 0n43 | 22n51 | 0s17 | 14s19 | 1s14 | 9s58 | 0s46 | 20s 8 | 0n21 | 18n50 | 4s39 | 14n55 | 14n30 | 22n11 | 3s 6 | 5n27 |

Julian Day Number = 2330770.5, Delta T = 30.17 sec
Ecliptic obliquity = 23°29'03, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'29, Lahiri = 19°14'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## JUNE 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 39 48 | 10♊49'10 | 6♋49 | 1♊24 | 2♊ 5 | 20♊41 | 20♊32 | 25♒11 | 6♓12 | 28°R33 | 29♊48 | 10°R 9 | 8♉53 | 12♌ 0 | 9♓12 | S 1 |
| S 2 | 16 43 44 | 11°46'34 | 18°58 | 3°29 | 3°19 | 21°22 | 20°46 | 25°12 | 6°12 | 28♑32 | 29°50 | 10♉ 4 | 8°50 | 12° 7 | 9°12 | S 2 |
| M 3 | 16 47 41 | 12°43'58 | 0♌58 | 5°37 | 4°32 | 22° 2 | 21° 0 | 25°12 | 6°13 | 28°31 | 29°51 | 9°58 | 8°47 | 12°13 | 9°13 | M 3 |
| T 4 | 16 51 38 | 13°41'20 | 12°52 | 7°45 | 5°46 | 22°42 | 21°13 | 25°R12 | 6°13 | 28°30 | 29°52 | 9°54 | 8°44 | 12°20 | 9°13 | T 4 |
| W 5 | 16 55 34 | 14°38'41 | 24°44 | 9°55 | 6°59 | 23°22 | 21°27 | 25°12 | 6°13 | 28°29 | 29°54 | 9°51 | 8°41 | 12°27 | 9°14 | W 5 |
| T 6 | 16 59 31 | 15°36'01 | 6♍38 | 12° 6 | 8°13 | 24° 3 | 21°41 | 25°12 | 6°14 | 28°28 | 29°55 | 9°49 | 8°37 | 12°34 | 9°14 | T 6 |
| F 7 | 17 3 27 | 16°33'20 | 18°39 | 14°17 | 9°27 | 24°43 | 21°55 | 25°12 | 6°14 | 28°27 | 29°57 | 9°D48 | 8°34 | 12°40 | 9°14 | F 7 |
| S 8 | 17 7 24 | 17°30'39 | 0♎50 | 16°29 | 10°40 | 25°23 | 22° 8 | 25°11 | 6°14 | 28°26 | 29°58 | 9°49 | 8°31 | 12°47 | 9°14 | S 8 |
| S 9 | 17 11 20 | 18°27'56 | 13°18 | 18°41 | 11°54 | 26° 3 | 22°22 | 25°11 | 6°14 | 28°25 | 29°59 | 9°50 | 8°28 | 12°54 | 9°15 | S 9 |
| M10 | 17 15 17 | 19°25'12 | 26° 5 | 20°53 | 13° 7 | 26°43 | 22°36 | 25°10 | 6°R14 | 28°23 | 0♋ 1 | 9°52 | 8°25 | 13° 0 | 9°15 | M10 |
| T 11 | 17 19 13 | 20°22'28 | 9♏17 | 23° 4 | 14°21 | 27°23 | 22°49 | 25°10 | 6°14 | 28°22 | 0° 2 | 9°R53 | 8°21 | 13° 7 | 9°15 | T 11 |
| W12 | 17 23 10 | 21°19'43 | 22°53 | 25°15 | 15°35 | 28° 3 | 23° 3 | 25° 9 | 6°14 | 28°21 | 0° 4 | 9°52 | 8°18 | 13°14 | 9°R15 | W12 |
| T 13 | 17 27 7 | 22°16'57 | 6♐55 | 27°25 | 16°48 | 28°43 | 23°17 | 25° 8 | 6°14 | 28°20 | 0° 5 | 9°49 | 8°15 | 13°21 | 9°15 | T 13 |
| F 14 | 17 31 3 | 23°14'11 | 21°20 | 29°34 | 18° 2 | 29°23 | 23°31 | 25° 7 | 6°14 | 28°19 | 0° 7 | 9°45 | 8°12 | 13°27 | 9°15 | F 14 |
| S 15 | 17 35 0 | 24°11'24 | 6♑ 2 | 1♋41 | 19°15 | 0♋ 3 | 23°44 | 25° 6 | 6°13 | 28°17 | 0° 8 | 9°39 | 8° 9 | 13°34 | 9°14 | S 15 |
| S 16 | 17 38 56 | 25° 8'37 | 20°53 | 3°47 | 20°29 | 0°42 | 23°58 | 25° 5 | 6°13 | 28°16 | 0°10 | 9°32 | 8° 6 | 13°41 | 9°14 | S 16 |
| M17 | 17 42 53 | 26° 5'50 | 5♒46 | 5°51 | 21°43 | 1°22 | 24°12 | 25° 4 | 6°13 | 28°15 | 0°11 | 9°26 | 8° 2 | 13°48 | 9°14 | M17 |
| T 18 | 17 46 49 | 27° 3'02 | 20°31 | 7°53 | 22°56 | 2° 2 | 24°26 | 25° 3 | 6°13 | 28°13 | 0°13 | 9°20 | 7°59 | 13°54 | 9°14 | T 18 |
| W19 | 17 50 46 | 28° 0'14 | 5♓ 4 | 9°54 | 24°10 | 2°42 | 24°39 | 25° 2 | 6°12 | 28°12 | 0°14 | 9°16 | 7°56 | 14° 1 | 9°13 | W19 |
| T 20 | 17 54 42 | 28°57'27 | 19°19 | 11°53 | 25°24 | 3°21 | 24°53 | 25° 0 | 6°12 | 28°11 | 0°16 | 9°14 | 7°53 | 14° 8 | 9°13 | T 20 |
| F 21 | 17 58 39 | 29°54'39 | 3♈14 | 13°49 | 26°37 | 4° 1 | 25° 7 | 24°59 | 6°11 | 28° 9 | 0°17 | 9°D14 | 7°50 | 14°14 | 9°12 | F 21 |
| S 22 | 18 2 36 | 0♋51'51 | 16°50 | 15°44 | 27°51 | 4°41 | 25°21 | 24°57 | 6°11 | 28° 8 | 0°19 | 9°15 | 7°47 | 14°21 | 9°12 | S 22 |
| S 23 | 18 6 32 | 1°49'03 | 0♉ 8 | 17°37 | 29° 5 | 5°20 | 25°34 | 24°55 | 6°10 | 28° 7 | 0°20 | 9°15 | 7°43 | 14°28 | 9°11 | S 23 |
| M24 | 18 10 29 | 2°46'15 | 13°10 | 19°27 | 0♋18 | 6° 0 | 25°48 | 24°53 | 6° 9 | 28° 5 | 0°22 | 9°R16 | 7°40 | 14°35 | 9°10 | M24 |
| T 25 | 18 14 25 | 3°43'28 | 25°58 | 21°15 | 1°32 | 6°39 | 26° 2 | 24°52 | 6° 9 | 28° 4 | 0°23 | 9°14 | 7°37 | 14°41 | 9°10 | T 25 |
| W26 | 18 18 22 | 4°40'41 | 8♊34 | 23° 2 | 2°46 | 7°19 | 26°15 | 24°50 | 6° 8 | 28° 2 | 0°25 | 9°11 | 7°34 | 14°48 | 9° 9 | W26 |
| T 27 | 18 22 18 | 5°37'53 | 21° 0 | 24°46 | 3°59 | 7°58 | 26°29 | 24°48 | 6° 7 | 28° 1 | 0°26 | 9° 5 | 7°31 | 14°55 | 9° 8 | T 27 |
| F 28 | 18 26 15 | 6°35'06 | 3♋17 | 26°28 | 5°13 | 8°38 | 26°43 | 24°45 | 6° 6 | 27°59 | 0°27 | 8°56 | 7°27 | 15° 2 | 9° 7 | F 28 |
| S 29 | 18 30 11 | 7°32'19 | 15°26 | 28° 7 | 6°27 | 9°17 | 26°56 | 24°43 | 6° 6 | 27°58 | 0°29 | 8°46 | 7°24 | 15° 8 | 9° 6 | S 29 |
| S 30 | 18 34 8 | 8♋29'31 | 27♋28 | 29♋45 | 7♋41 | 9♋57 | 27♊10 | 24♒41 | 6♓ 5 | 27♑56 | 0♋30 | 8♉35 | 7♉21 | 15♌15 | 9♓ 5 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 7 | 27n39 | 4n21 | 20n 3 | 0s26 | 20n 3 | 0s35 | 23n53 | 0n44 | 22n52 | 0s17 | 14s19 | 1s15 | 9s58 | 0s46 | 20s 9 | 0n21 | 18n50 | 4s39 | 14n53 | 14n29 | 22n 9 | 3s 5 | 5n27 |
| S 2 | 22 14 | 26 56 | 4 51 | 20 39 | 0 15 | 20 19 | 0 33 | 23 56 | 0 44 | 22 53 | 0 17 | 14 19 | 1 15 | 9 58 | 0 46 | 20 9 | 0 21 | 18 50 | 4 39 | 14 52 | 14 28 | 22 7 | 3 5 | 5 27 |
| M 3 | 22 22 | 24 59 | 5 7 | 21 13 | 0 4 | 20 35 | 0 30 | 23 59 | 0 45 | 22 54 | 0 17 | 14 19 | 1 15 | 9 58 | 0 46 | 20 9 | 0 21 | 18 50 | 4 39 | 14 50 | 14 27 | 22 5 | 3 4 | 5 27 |
| T 4 | 22 29 | 21 56 | 5 11 | 21 45 | 0n 7 | 20 51 | 0 28 | 24 2 | 0 45 | 22 55 | 0 16 | 14 20 | 1 15 | 9 58 | 0 46 | 20 9 | 0 21 | 18 51 | 4 39 | 14 49 | 14 26 | 22 3 | 3 4 | 5 28 |
| W 5 | 22 36 | 18 1 | 5 1 | 22 16 | 0 17 | 21 6 | 0 26 | 24 5 | 0 46 | 22 56 | 0 16 | 14 20 | 1 15 | 9 58 | 0 46 | 20 10 | 0 21 | 18 51 | 4 38 | 14 48 | 14 25 | 22 1 | 3 4 | 5 28 |
| T 6 | 22 42 | 13 23 | 4 38 | 22 44 | 0 27 | 21 20 | 0 23 | 24 7 | 0 46 | 22 57 | 0 16 | 14 20 | 1 16 | 9 58 | 0 46 | 20 10 | 0 21 | 18 51 | 4 38 | 14 47 | 14 24 | 21 59 | 3 3 | 5 28 |
| F 7 | 22 48 | 8 13 | 4 3 | 23 11 | 0 37 | 21 34 | 0 21 | 24 9 | 0 46 | 22 58 | 0 16 | 14 20 | 1 16 | 9 58 | 0 46 | 20 10 | 0 21 | 18 51 | 4 38 | 14 47 | 14 23 | 21 57 | 3 3 | 5 28 |
| S 8 | 22 54 | 2 40 | 3 16 | 23 35 | 0 47 | 21 47 | 0 19 | 24 11 | 0 47 | 22 59 | 0 16 | 14 20 | 1 16 | 9 57 | 0 46 | 20 10 | 0 21 | 18 51 | 4 38 | 14 47 | 14 22 | 21 55 | 3 2 | 5 29 |
| S 9 | 22 59 | 3s 7 | 2 19 | 23 56 | 0 56 | 21 59 | 0 16 | 24 13 | 0 47 | 23 0 | 0 16 | 14 21 | 1 16 | 9 58 | 0 46 | 20 10 | 0 21 | 18 51 | 4 38 | 14 47 | 14 21 | 21 53 | 3 2 | 5 29 |
| M10 | 23 4 | 8 57 | 1 14 | 24 15 | 1 5 | 22 11 | 0 14 | 24 14 | 0 48 | 23 1 | 0 16 | 14 21 | 1 16 | 9 58 | 0 46 | 20 11 | 0 21 | 18 51 | 4 38 | 14 48 | 14 20 | 21 51 | 3 2 | 5 29 |
| T 11 | 23 8 | 14 34 | 0 3 | 24 31 | 1 13 | 22 22 | 0 12 | 24 16 | 0 48 | 23 2 | 0 16 | 14 22 | 1 17 | 9 58 | 0 46 | 20 11 | 0 21 | 18 51 | 4 38 | 14 48 | 14 19 | 21 49 | 3 2 | 5 29 |
| W12 | 23 12 | 19 39 | 1s10 | 24 44 | 1 20 | 22 33 | 0 9 | 24 17 | 0 48 | 23 2 | 0 16 | 14 22 | 1 17 | 9 58 | 0 46 | 20 11 | 0 21 | 18 51 | 4 38 | 14 48 | 14 18 | 21 47 | 3 1 | 5 30 |
| T 13 | 23 16 | 23 49 | 2 21 | 24 55 | 1 27 | 22 43 | 0 7 | 24 17 | 0 49 | 23 3 | 0 16 | 14 22 | 1 17 | 9 58 | 0 46 | 20 11 | 0 21 | 18 51 | 4 38 | 14 47 | 14 17 | 21 45 | 3 1 | 5 30 |
| F 14 | 23 19 | 26 37 | 3 25 | 25 2 | 1 33 | 22 52 | 0 4 | 24 18 | 0 49 | 23 4 | 0 15 | 14 23 | 1 17 | 9 58 | 0 46 | 20 12 | 0 21 | 18 51 | 4 38 | 14 46 | 14 16 | 21 43 | 3 1 | 5 30 |
| S 15 | 23 21 | 27 37 | 4 17 | 25 7 | 1 39 | 23 1 | 0 2 | 24 19 | 0 50 | 23 5 | 0 15 | 14 23 | 1 17 | 9 58 | 0 47 | 20 12 | 0 21 | 18 51 | 4 38 | 14 44 | 14 15 | 21 41 | 3 1 | 5 31 |
| S 16 | 23 24 | 26 40 | 4 52 | 25 9 | 1 44 | 23 9 | 0n 0 | 24 19 | 0 50 | 23 6 | 0 15 | 14 24 | 1 18 | 9 58 | 0 47 | 20 12 | 0 21 | 18 51 | 4 38 | 14 42 | 14 14 | 21 39 | 3 1 | 5 31 |
| M17 | 23 26 | 23 49 | 5 7 | 25 9 | 1 48 | 23 16 | 0 3 | 24 19 | 0 50 | 23 6 | 0 15 | 14 25 | 1 18 | 9 58 | 0 47 | 20 12 | 0 21 | 18 51 | 4 38 | 14 40 | 14 13 | 21 37 | 3 0 | 5 31 |
| T 18 | 23 27 | 19 26 | 5 2 | 25 5 | 1 51 | 23 23 | 0 5 | 24 19 | 0 51 | 23 7 | 0 15 | 14 25 | 1 18 | 9 58 | 0 47 | 20 13 | 0 21 | 18 51 | 4 38 | 14 38 | 14 12 | 21 35 | 3 0 | 5 31 |
| W19 | 23 28 | 13 58 | 4 37 | 25 0 | 1 53 | 23 29 | 0 7 | 24 18 | 0 51 | 23 8 | 0 15 | 14 26 | 1 18 | 9 59 | 0 47 | 20 13 | 0 21 | 18 52 | 4 37 | 14 37 | 14 11 | 21 33 | 3 0 | 5 32 |
| T 20 | 23 29 | 7 51 | 3 56 | 24 52 | 1 55 | 23 34 | 0 10 | 24 18 | 0 51 | 23 8 | 0 15 | 14 26 | 1 18 | 9 59 | 0 47 | 20 13 | 0 21 | 18 52 | 4 37 | 14 36 | 14 10 | 21 31 | 3 0 | 5 32 |
| F 21 | 23 29 | 1 29 | 3 1 | 24 41 | 1 56 | 23 39 | 0 12 | 24 17 | 0 52 | 23 9 | 0 15 | 14 27 | 1 18 | 9 59 | 0 47 | 20 14 | 0 21 | 18 52 | 4 37 | 14 36 | 14 9 | 21 29 | 3 0 | 5 32 |
| S 22 | 23 29 | 4n49 | 1 58 | 24 29 | 1 56 | 23 43 | 0 15 | 24 16 | 0 52 | 23 9 | 0 15 | 14 28 | 1 19 | 9 59 | 0 47 | 20 14 | 0 21 | 18 52 | 4 37 | 14 36 | 14 8 | 21 26 | 3 0 | 5 32 |
| S 23 | 23 28 | 10 47 | 0 49 | 24 14 | 1 56 | 23 46 | 0 17 | 24 15 | 0 53 | 23 10 | 0 15 | 14 29 | 1 19 | 9 59 | 0 47 | 20 14 | 0 21 | 18 52 | 4 37 | 14 36 | 14 7 | 21 24 | 3 0 | 5 33 |
| M24 | 23 27 | 16 9 | 0n21 | 23 58 | 1 55 | 23 48 | 0 19 | 24 14 | 0 53 | 23 11 | 0 14 | 14 29 | 1 19 | 10 0 | 0 47 | 20 14 | 0 21 | 18 52 | 4 37 | 14 36 | 14 6 | 21 22 | 3 0 | 5 33 |
| T 25 | 23 26 | 20 43 | 1 28 | 23 40 | 1 53 | 23 50 | 0 21 | 24 12 | 0 53 | 23 11 | 0 14 | 14 30 | 1 19 | 10 0 | 0 47 | 20 15 | 0 21 | 18 52 | 4 37 | 14 36 | 14 5 | 21 20 | 3 0 | 5 33 |
| W26 | 23 24 | 24 15 | 2 30 | 23 20 | 1 51 | 23 51 | 0 24 | 24 10 | 0 54 | 23 12 | 0 14 | 14 31 | 1 19 | 10 0 | 0 47 | 20 15 | 0 21 | 18 52 | 4 37 | 14 35 | 14 4 | 21 18 | 3 0 | 5 33 |
| T 27 | 23 22 | 26 34 | 3 24 | 22 59 | 1 48 | 23 51 | 0 26 | 24 8 | 0 54 | 23 12 | 0 14 | 14 32 | 1 20 | 10 1 | 0 47 | 20 15 | 0 21 | 18 52 | 4 37 | 14 33 | 14 3 | 21 16 | 3 0 | 5 34 |
| F 28 | 23 19 | 27 34 | 4 7 | 22 36 | 1 44 | 23 51 | 0 28 | 24 6 | 0 54 | 23 12 | 0 14 | 14 33 | 1 20 | 10 1 | 0 47 | 20 16 | 0 21 | 18 52 | 4 37 | 14 30 | 14 2 | 21 14 | 3 0 | 5 34 |
| S 29 | 23 16 | 27 12 | 4 39 | 22 12 | 1 40 | 23 50 | 0 31 | 24 4 | 0 55 | 23 13 | 0 14 | 14 34 | 1 20 | 10 1 | 0 47 | 20 16 | 0 21 | 18 52 | 4 37 | 14 27 | 14 0 | 21 12 | 3 0 | 5 34 |
| S 30 | 23n13 | 25n34 | 4n58 | 21n47 | 1n35 | 23n48 | 0n33 | 24n 1 | 0n55 | 23n13 | 0s14 | 14s35 | 1s20 | 10s 2 | 0s47 | 20s16 | 0n21 | 18n52 | 4s37 | 14n23 | 13n59 | 21n 9 | 3s 1 | 5n34 |

Julian Day Number = 2330801.5, Delta T = 30.12 sec
Ecliptic obliquity = 23°29'03, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'33, Lahiri = 19°14'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## JULY 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 38 5 | 9♋26'44 | 9♌24 | 1♌21 | 8♋54 | 10♋36 | 27♊23 | 24°R38 | 6°R 4 | 27°R55 | 0♋32 | 8°R24 | 7♉18 | 15♌22 | 9°R 4 | M 1 |
| T 2 | 18 42 1 | 10°23'56 | 21°16 | 2°54 | 10° 8 | 11°15 | 27°37 | 24♒36 | 6♓ 3 | 27♂53 | 0°33 | 8♉14 | 7°15 | 15°28 | 9♓ 3 | T 2 |
| W 3 | 18 45 58 | 11°21'09 | 3♍ 7 | 4°25 | 11°22 | 11°55 | 27°50 | 24°33 | 6° 2 | 27°52 | 0°35 | 8° 6 | 7°12 | 15°35 | 9° 2 | W 3 |
| T 4 | 18 49 54 | 12°18'21 | 14°59 | 5°54 | 12°36 | 12°34 | 28° 4 | 24°31 | 6° 1 | 27°50 | 0°36 | 8° 0 | 7° 8 | 15°42 | 9° 1 | T 4 |
| F 5 | 18 53 51 | 13°15'33 | 26°58 | 7°21 | 13°50 | 13°13 | 28°17 | 24°28 | 5°59 | 27°49 | 0°38 | 7°57 | 7° 5 | 15°49 | 9° 0 | F 5 |
| S 6 | 18 57 47 | 14°12'45 | 9♎ 7 | 8°46 | 15° 3 | 13°53 | 28°31 | 24°25 | 5°58 | 27°47 | 0°39 | 7°D55 | 7° 2 | 15°55 | 8°58 | S 6 |
| S 7 | 19 1 44 | 15° 9'57 | 21°31 | 10° 8 | 16°17 | 14°32 | 28°44 | 24°22 | 5°57 | 27°46 | 0°41 | 7°55 | 6°59 | 16° 2 | 8°57 | S 7 |
| M 8 | 19 5 40 | 16° 7'09 | 4♏15 | 11°28 | 17°31 | 15°11 | 28°58 | 24°19 | 5°56 | 27°44 | 0°42 | 7°R56 | 6°56 | 16° 9 | 8°55 | M 8 |
| T 9 | 19 9 37 | 17° 4'21 | 17°24 | 12°46 | 18°45 | 15°50 | 29°11 | 24°16 | 5°55 | 27°42 | 0°43 | 7°55 | 6°53 | 16°15 | 8°54 | T 9 |
| W10 | 19 13 34 | 18° 1'34 | 1♐ 1 | 14° 1 | 19°59 | 16°29 | 29°24 | 24°13 | 5°53 | 27°41 | 0°45 | 7°53 | 6°49 | 16°22 | 8°52 | W10 |
| T 11 | 19 17 30 | 18°58'46 | 15° 7 | 15°14 | 21°12 | 17° 8 | 29°38 | 24°10 | 5°52 | 27°39 | 0°46 | 7°49 | 6°46 | 16°29 | 8°51 | T 11 |
| F 12 | 19 21 27 | 19°55'59 | 29°41 | 16°24 | 22°26 | 17°47 | 29°51 | 24° 6 | 5°50 | 27°38 | 0°48 | 7°42 | 6°43 | 16°36 | 8°49 | F 12 |
| S 13 | 19 25 23 | 20°53'12 | 14♑37 | 17°32 | 23°40 | 18°26 | 0♋ 4 | 24° 3 | 5°49 | 27°36 | 0°49 | 7°34 | 6°40 | 16°42 | 8°48 | S 13 |
| S 14 | 19 29 20 | 21°50'26 | 29°46 | 18°37 | 24°54 | 19° 5 | 0°17 | 24° 0 | 5°47 | 27°34 | 0°50 | 7°24 | 6°37 | 16°49 | 8°46 | S 14 |
| M15 | 19 33 16 | 22°47'40 | 14♒59 | 19°40 | 26° 8 | 19°44 | 0°31 | 23°56 | 5°46 | 27°33 | 0°52 | 7°13 | 6°33 | 16°56 | 8°44 | M15 |
| T 16 | 19 37 13 | 23°44'54 | 0♓ 5 | 20°39 | 27°22 | 20°23 | 0°44 | 23°53 | 5°44 | 27°31 | 0°53 | 7° 5 | 6°30 | 17° 3 | 8°42 | T 16 |
| W17 | 19 41 10 | 24°42'09 | 14°55 | 21°36 | 28°36 | 21° 2 | 0°57 | 23°49 | 5°43 | 27°30 | 0°55 | 6°58 | 6°27 | 17° 9 | 8°41 | W17 |
| T 18 | 19 45 6 | 25°39'25 | 29°21 | 22°29 | 29°50 | 21°41 | 1°10 | 23°46 | 5°41 | 27°28 | 0°56 | 6°53 | 6°24 | 17°16 | 8°39 | T 18 |
| F 19 | 19 49 3 | 26°36'42 | 13♈23 | 23°19 | 1♌ 3 | 22°20 | 1°23 | 23°42 | 5°40 | 27°26 | 0°57 | 6°51 | 6°21 | 17°23 | 8°37 | F 19 |
| S 20 | 19 52 59 | 27°34'00 | 26°59 | 24° 6 | 2°17 | 22°59 | 1°36 | 23°38 | 5°38 | 27°25 | 0°59 | 6°D51 | 6°18 | 17°29 | 8°35 | S 20 |
| S 21 | 19 56 56 | 28°31'19 | 10♉11 | 24°49 | 3°31 | 23°38 | 1°49 | 23°34 | 5°36 | 27°23 | 1° 0 | 6°R51 | 6°14 | 17°36 | 8°33 | S 21 |
| M22 | 20 0 52 | 29°28'39 | 23° 4 | 25°29 | 4°45 | 24°17 | 2° 2 | 23°30 | 5°34 | 27°21 | 1° 1 | 6°50 | 6°11 | 17°43 | 8°31 | M22 |
| T 23 | 20 4 49 | 0♌26'00 | 5♊40 | 26° 5 | 5°59 | 24°56 | 2°15 | 23°26 | 5°33 | 27°20 | 1° 3 | 6°48 | 6° 8 | 17°50 | 8°29 | T 23 |
| W24 | 20 8 45 | 1°23'22 | 18° 4 | 26°36 | 7°13 | 25°34 | 2°27 | 23°22 | 5°31 | 27°18 | 1° 4 | 6°43 | 6° 5 | 17°56 | 8°26 | W24 |
| T 25 | 20 12 42 | 2°20'45 | 0♋17 | 27° 4 | 8°27 | 26°13 | 2°40 | 23°18 | 5°29 | 27°17 | 1° 5 | 6°35 | 6° 2 | 18° 3 | 8°24 | T 25 |
| F 26 | 20 16 39 | 3°18'09 | 12°22 | 27°27 | 9°41 | 26°52 | 2°53 | 23°14 | 5°27 | 27°15 | 1° 6 | 6°24 | 5°59 | 18°10 | 8°22 | F 26 |
| S 27 | 20 20 35 | 4°15'34 | 24°22 | 27°46 | 10°55 | 27°31 | 3° 6 | 23°10 | 5°25 | 27°13 | 1° 8 | 6°11 | 5°55 | 18°16 | 8°20 | S 27 |
| S 28 | 20 24 32 | 5°13'00 | 6♌18 | 28° 0 | 12° 9 | 28° 9 | 3°18 | 23° 6 | 5°23 | 27°12 | 1° 9 | 5°57 | 5°52 | 18°23 | 8°18 | S 28 |
| M29 | 20 28 28 | 6°10'26 | 18°10 | 28° 9 | 13°23 | 28°48 | 3°31 | 23° 2 | 5°21 | 27°10 | 1°10 | 5°43 | 5°49 | 18°30 | 8°15 | M29 |
| T 30 | 20 32 25 | 7° 7'54 | 0♍ 2 | 28°R13 | 14°37 | 29°27 | 3°43 | 22°58 | 5°19 | 27° 8 | 1°11 | 5°30 | 5°46 | 18°37 | 8°13 | T 30 |
| W31 | 20 36 21 | 8♌ 5'22 | 11♍53 | 28♌12 | 15♌51 | 0♌ 5 | 3♋56 | 22♒53 | 5♓17 | 27♂ 7 | 1♋13 | 5♉20 | 5♉43 | 18♌43 | 8♓10 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | lat |
| M 1 | 23n 9 | 22n48 | 5n 3 | 21n21 | 1n30 | 23n46 | 0n35 | 23n59 | 0n55 | 23n14 | 0s14 | 14s36 | 1s20 | 10s 2 | 0s47 | 20s16 | 0n21 | 18n52 | 4s37 | 14n20 | 13n58 | 21n 7 | 3s 1 | 5n35 |
| T 2 | 23 5 | 19 6 | 4 56 | 20 54 | 1 24 | 23 43 | 0 37 | 23 56 | 0 56 | 23 14 | 0 14 | 14 37 | 1 21 | 10 3 | 0 47 | 20 17 | 0 21 | 18 52 | 4 37 | 14 17 | 13 57 | 21 5 | 3 1 | 5 35 |
| W 3 | 23 0 | 14 39 | 4 35 | 20 27 | 1 17 | 23 39 | 0 39 | 23 53 | 0 56 | 23 14 | 0 14 | 14 38 | 1 21 | 10 3 | 0 47 | 20 17 | 0 21 | 18 52 | 4 37 | 14 14 | 13 56 | 21 3 | 3 1 | 5 35 |
| T 4 | 22 55 | 9 39 | 4 3 | 19 58 | 1 10 | 23 34 | 0 41 | 23 49 | 0 56 | 23 15 | 0 14 | 14 39 | 1 21 | 10 3 | 0 47 | 20 17 | 0 21 | 18 52 | 4 37 | 14 12 | 13 55 | 21 1 | 3 1 | 5 35 |
| F 5 | 22 49 | 4 16 | 3 20 | 19 29 | 1 3 | 23 29 | 0 43 | 23 46 | 0 57 | 23 15 | 0 13 | 14 40 | 1 21 | 10 4 | 0 47 | 20 18 | 0 21 | 18 52 | 4 37 | 14 11 | 13 54 | 20 59 | 3 2 | 5 35 |
| S 6 | 22 43 | 1s22 | 2 27 | 18 59 | 0 55 | 23 23 | 0 45 | 23 42 | 0 57 | 23 15 | 0 13 | 14 41 | 1 21 | 10 4 | 0 47 | 20 18 | 0 21 | 18 52 | 4 37 | 14 11 | 13 53 | 20 56 | 3 2 | 5 36 |
| S 7 | 22 37 | 7 4 | 1 26 | 18 29 | 0 47 | 23 16 | 0 47 | 23 38 | 0 57 | 23 15 | 0 13 | 14 42 | 1 21 | 10 5 | 0 47 | 20 18 | 0 21 | 18 52 | 4 37 | 14 11 | 13 52 | 20 54 | 3 2 | 5 36 |
| M 8 | 22 31 | 12 39 | 0 20 | 17 59 | 0 38 | 23 9 | 0 49 | 23 34 | 0 58 | 23 16 | 0 13 | 14 43 | 1 22 | 10 5 | 0 47 | 20 19 | 0 21 | 18 52 | 4 37 | 14 11 | 13 51 | 20 52 | 3 3 | 5 36 |
| T 9 | 22 23 | 17 52 | 0s50 | 17 28 | 0 29 | 23 1 | 0 51 | 23 30 | 0 58 | 23 16 | 0 13 | 14 44 | 1 22 | 10 6 | 0 47 | 20 19 | 0 21 | 18 52 | 4 37 | 14 11 | 13 50 | 20 50 | 3 3 | 5 36 |
| W10 | 22 16 | 22 21 | 1 59 | 16 58 | 0 19 | 22 52 | 0 53 | 23 26 | 0 58 | 23 16 | 0 13 | 14 46 | 1 22 | 10 6 | 0 47 | 20 19 | 0 21 | 18 52 | 4 37 | 14 10 | 13 49 | 20 48 | 3 3 | 5 37 |
| T 11 | 22 8 | 25 42 | 3 4 | 16 27 | 0 9 | 22 43 | 0 55 | 23 21 | 0 59 | 23 16 | 0 13 | 14 47 | 1 22 | 10 7 | 0 47 | 20 20 | 0 21 | 18 52 | 4 37 | 14 9 | 13 48 | 20 45 | 3 4 | 5 37 |
| F 12 | 22 0 | 27 27 | 3 58 | 15 56 | 0s 1 | 22 33 | 0 57 | 23 16 | 0 59 | 23 16 | 0 13 | 14 48 | 1 22 | 10 7 | 0 47 | 20 20 | 0 21 | 18 52 | 4 37 | 14 6 | 13 47 | 20 43 | 3 4 | 5 37 |
| S 13 | 21 51 | 27 17 | 4 38 | 15 25 | 0 12 | 22 22 | 0 59 | 23 11 | 0 59 | 23 16 | 0 13 | 14 49 | 1 22 | 10 8 | 0 48 | 20 20 | 0 21 | 18 52 | 4 37 | 14 4 | 13 46 | 20 41 | 3 5 | 5 37 |
| S 14 | 21 43 | 25 6 | 4 58 | 14 55 | 0 23 | 22 11 | 1 0 | 23 6 | 0 59 | 23 16 | 0 13 | 14 51 | 1 23 | 10 8 | 0 48 | 20 21 | 0 21 | 18 52 | 4 37 | 14 0 | 13 45 | 20 39 | 3 5 | 5 37 |
| M15 | 21 33 | 21 7 | 4 58 | 14 25 | 0 34 | 21 59 | 1 2 | 23 1 | 1 0 | 23 16 | 0 13 | 14 52 | 1 23 | 10 9 | 0 48 | 20 21 | 0 21 | 18 52 | 4 37 | 13 57 | 13 44 | 20 37 | 3 5 | 5 38 |
| T 16 | 21 24 | 15 47 | 4 37 | 13 55 | 0 46 | 21 46 | 1 4 | 22 55 | 1 0 | 23 16 | 0 13 | 14 53 | 1 23 | 10 10 | 0 48 | 20 21 | 0 21 | 18 52 | 4 37 | 13 54 | 13 43 | 20 34 | 3 6 | 5 38 |
| W17 | 21 13 | 9 37 | 3 58 | 13 26 | 0 57 | 21 33 | 1 5 | 22 50 | 1 0 | 23 16 | 0 12 | 14 55 | 1 23 | 10 10 | 0 48 | 20 22 | 0 21 | 18 52 | 4 37 | 13 52 | 13 42 | 20 32 | 3 6 | 5 38 |
| T 18 | 21 3 | 3 4 | 3 4 | 12 57 | 1 10 | 21 19 | 1 7 | 22 44 | 1 1 | 23 16 | 0 12 | 14 56 | 1 23 | 10 11 | 0 48 | 20 22 | 0 21 | 18 52 | 4 37 | 13 50 | 13 41 | 20 30 | 3 7 | 5 38 |
| F 19 | 20 52 | 3n26 | 2 1 | 12 29 | 1 22 | 21 4 | 1 8 | 22 38 | 1 1 | 23 16 | 0 12 | 14 57 | 1 23 | 10 12 | 0 48 | 20 22 | 0 21 | 18 52 | 4 37 | 13 50 | 13 40 | 20 28 | 3 8 | 5 38 |
| S 20 | 20 41 | 9 36 | 0 52 | 12 2 | 1 34 | 20 49 | 1 10 | 22 32 | 1 1 | 23 16 | 0 12 | 14 59 | 1 23 | 10 12 | 0 48 | 20 23 | 0 21 | 18 52 | 4 37 | 13 50 | 13 39 | 20 25 | 3 8 | 5 38 |
| S 21 | 20 30 | 15 11 | 0n18 | 11 36 | 1 47 | 20 33 | 1 11 | 22 25 | 1 1 | 23 16 | 0 12 | 15 0 | 1 24 | 10 13 | 0 48 | 20 23 | 0 21 | 18 52 | 4 37 | 13 50 | 13 38 | 20 23 | 3 9 | 5 39 |
| M22 | 20 18 | 19 56 | 1 25 | 11 10 | 2 0 | 20 17 | 1 12 | 22 19 | 1 2 | 23 16 | 0 12 | 15 2 | 1 24 | 10 14 | 0 48 | 20 23 | 0 21 | 18 52 | 4 37 | 13 49 | 13 36 | 20 21 | 3 9 | 5 39 |
| T 23 | 20 6 | 23 41 | 2 26 | 10 46 | 2 13 | 20 0 | 1 14 | 22 12 | 1 2 | 23 16 | 0 12 | 15 3 | 1 24 | 10 14 | 0 48 | 20 24 | 0 21 | 18 52 | 4 37 | 13 49 | 13 35 | 20 18 | 3 10 | 5 39 |
| W24 | 19 53 | 26 15 | 3 19 | 10 23 | 2 25 | 19 42 | 1 15 | 22 5 | 1 2 | 23 16 | 0 12 | 15 4 | 1 24 | 10 15 | 0 48 | 20 24 | 0 21 | 18 52 | 4 37 | 13 47 | 13 34 | 20 16 | 3 11 | 5 39 |
| T 25 | 19 40 | 27 31 | 4 2 | 10 2 | 2 38 | 19 24 | 1 16 | 21 58 | 1 2 | 23 16 | 0 12 | 15 6 | 1 24 | 10 16 | 0 48 | 20 24 | 0 21 | 18 52 | 4 37 | 13 44 | 13 33 | 20 14 | 3 11 | 5 39 |
| F 26 | 19 27 | 27 27 | 4 34 | 9 42 | 2 51 | 19 6 | 1 17 | 21 51 | 1 3 | 23 15 | 0 12 | 15 7 | 1 24 | 10 16 | 0 48 | 20 25 | 0 21 | 18 52 | 4 37 | 13 41 | 13 32 | 20 12 | 3 12 | 5 39 |
| S 27 | 19 14 | 26 5 | 4 53 | 9 24 | 3 4 | 18 47 | 1 18 | 21 44 | 1 3 | 23 15 | 0 12 | 15 9 | 1 24 | 10 17 | 0 48 | 20 25 | 0 21 | 18 52 | 4 37 | 13 36 | 13 31 | 20 9 | 3 13 | 5 40 |
| S 28 | 19 0 | 23 34 | 4 59 | 9 7 | 3 16 | 18 27 | 1 19 | 21 36 | 1 3 | 23 15 | 0 12 | 15 10 | 1 25 | 10 18 | 0 48 | 20 25 | 0 21 | 18 52 | 4 37 | 13 32 | 13 30 | 20 7 | 3 13 | 5 40 |
| M29 | 18 46 | 20 2 | 4 52 | 8 53 | 3 28 | 18 7 | 1 20 | 21 29 | 1 4 | 23 15 | 0 11 | 15 12 | 1 25 | 10 19 | 0 48 | 20 26 | 0 21 | 18 52 | 4 37 | 13 27 | 13 29 | 20 5 | 3 14 | 5 40 |
| T 30 | 18 31 | 15 44 | 4 33 | 8 41 | 3 40 | 17 46 | 1 21 | 21 21 | 1 4 | 23 15 | 0 11 | 15 13 | 1 25 | 10 19 | 0 48 | 20 26 | 0 21 | 18 52 | 4 37 | 13 23 | 13 28 | 20 2 | 3 15 | 5 40 |
| W31 | 18n17 | 10n50 | 4n 1 | 8n31 | 3s51 | 17n25 | 1n22 | 21n13 | 1n 4 | 23n14 | 0s11 | 15s15 | 1s25 | 10s20 | 0s48 | 20s26 | 0n21 | 18n52 | 4s37 | 13n19 | 13n27 | 20n 0 | 3s16 | 5n40 |

Julian Day Number = 2330831.5, Delta T = 30.06 sec
Ecliptic obliquity = 23°29'03, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'37, Lahiri = 19°14'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## AUGUST 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 40 18 | 9♌ 2'52 | 23♍47 | 28°R 6 | 17♌ 5 | 0♌44 | 4♋ 8 | 22°R49 | 5°R15 | 27°R 5 | 1♋14 | 5°R12 | 5♉39 | 18♌50 | 8°R 8 | T 1 |
| F 2 | 20 44 14 | 10° 0'22 | 5♎46 | 27♌54 | 18°19 | 1°22 | 4°20 | 22♒45 | 5♓13 | 27♏ 4 | 1°15 | 5♉ 6 | 5°36 | 18°57 | 8♓ 6 | F 2 |
| S 3 | 20 48 11 | 10°57'53 | 17°55 | 27°37 | 19°33 | 2° 1 | 4°33 | 22°40 | 5°11 | 27° 2 | 1°16 | 5° 4 | 5°33 | 19° 4 | 8° 3 | S 3 |
| S 4 | 20 52 8 | 11°55'24 | 0♏18 | 27°15 | 20°47 | 2°40 | 4°45 | 22°36 | 5° 9 | 27° 1 | 1°17 | 5° 3 | 5°30 | 19°10 | 8° 1 | S 4 |
| M 5 | 20 56 4 | 12°52'57 | 12°59 | 26°47 | 22° 1 | 3°18 | 4°57 | 22°32 | 5° 7 | 26°59 | 1°19 | 5° 3 | 5°27 | 19°17 | 7°58 | M 5 |
| T 6 | 21 0 1 | 13°50'31 | 26° 3 | 26°15 | 23°16 | 3°57 | 5° 9 | 22°27 | 5° 4 | 26°57 | 1°20 | 5° 3 | 5°24 | 19°24 | 7°55 | T 6 |
| W 7 | 21 3 57 | 14°48'05 | 9♐34 | 25°38 | 24°30 | 4°35 | 5°21 | 22°23 | 5° 2 | 26°56 | 1°21 | 5° 1 | 5°20 | 19°30 | 7°53 | W 7 |
| T 8 | 21 7 54 | 15°45'41 | 23°34 | 24°57 | 25°44 | 5°14 | 5°33 | 22°18 | 5° 0 | 26°54 | 1°22 | 4°57 | 5°17 | 19°37 | 7°50 | T 8 |
| F 9 | 21 11 50 | 16°43'17 | 8♑ 4 | 24°12 | 26°58 | 5°52 | 5°45 | 22°14 | 4°58 | 26°53 | 1°23 | 4°50 | 5°14 | 19°44 | 7°48 | F 9 |
| S 10 | 21 15 47 | 17°40'55 | 22°59 | 23°25 | 28°12 | 6°31 | 5°57 | 22° 9 | 4°56 | 26°51 | 1°24 | 4°41 | 5°11 | 19°51 | 7°45 | S 10 |
| S 11 | 21 19 43 | 18°38'33 | 8♒11 | 22°35 | 29°26 | 7° 9 | 6° 8 | 22° 5 | 4°53 | 26°50 | 1°25 | 4°31 | 5° 8 | 19°57 | 7°42 | S 11 |
| M12 | 21 23 40 | 19°36'13 | 23°32 | 21°44 | 0♍40 | 7°47 | 6°20 | 22° 0 | 4°51 | 26°48 | 1°26 | 4°21 | 5° 5 | 20° 4 | 7°39 | M12 |
| T 13 | 21 27 37 | 20°33'54 | 8♓48 | 20°52 | 1°54 | 8°26 | 6°32 | 21°56 | 4°49 | 26°47 | 1°27 | 4°12 | 5° 1 | 20°11 | 7°37 | T 13 |
| W14 | 21 31 33 | 21°31'37 | 23°50 | 20° 2 | 3° 8 | 9° 4 | 6°43 | 21°51 | 4°46 | 26°46 | 1°28 | 4° 5 | 4°58 | 20°17 | 7°34 | W14 |
| T 15 | 21 35 30 | 22°29'21 | 8♈29 | 19°13 | 4°22 | 9°42 | 6°55 | 21°47 | 4°44 | 26°44 | 1°29 | 4° 0 | 4°55 | 20°24 | 7°31 | T 15 |
| F 16 | 21 39 26 | 23°27'07 | 22°40 | 18°27 | 5°36 | 10°21 | 7° 6 | 21°42 | 4°42 | 26°43 | 1°30 | 3°58 | 4°52 | 20°31 | 7°28 | F 16 |
| S 17 | 21 43 23 | 24°24'54 | 6♉23 | 17°44 | 6°50 | 10°59 | 7°17 | 21°38 | 4°39 | 26°41 | 1°31 | 3°D57 | 4°49 | 20°38 | 7°26 | S 17 |
| S 18 | 21 47 19 | 25°22'43 | 19°39 | 17° 6 | 8° 5 | 11°37 | 7°28 | 21°33 | 4°37 | 26°40 | 1°32 | 3°R58 | 4°45 | 20°44 | 7°23 | S 18 |
| M19 | 21 51 16 | 26°20'34 | 2♊32 | 16°34 | 9°19 | 12°16 | 7°40 | 21°29 | 4°35 | 26°39 | 1°33 | 3°58 | 4°42 | 20°51 | 7°20 | M19 |
| T 20 | 21 55 12 | 27°18'27 | 15° 4 | 16° 8 | 10°33 | 12°54 | 7°51 | 21°24 | 4°32 | 26°37 | 1°34 | 3°56 | 4°39 | 20°58 | 7°17 | T 20 |
| W21 | 21 59 9 | 28°16'22 | 27°22 | 15°49 | 11°47 | 13°32 | 8° 2 | 21°20 | 4°30 | 26°36 | 1°35 | 3°53 | 4°36 | 21° 4 | 7°14 | W21 |
| T 22 | 22 3 6 | 29°14'18 | 9♋29 | 15°37 | 13° 1 | 14°10 | 8°12 | 21°15 | 4°28 | 26°35 | 1°36 | 3°46 | 4°33 | 21°11 | 7°11 | T 22 |
| F 23 | 22 7 2 | 0♍12'17 | 21°28 | 15°D33 | 14°15 | 14°49 | 8°23 | 21°11 | 4°25 | 26°33 | 1°37 | 3°38 | 4°30 | 21°18 | 7° 8 | F 23 |
| S 24 | 22 10 59 | 1°10'17 | 3♌22 | 15°37 | 15°29 | 15°27 | 8°34 | 21° 6 | 4°23 | 26°32 | 1°38 | 3°27 | 4°26 | 21°25 | 7° 6 | S 24 |
| S 25 | 22 14 55 | 2° 8'18 | 15°14 | 15°50 | 16°43 | 16° 5 | 8°44 | 21° 2 | 4°20 | 26°31 | 1°39 | 3°15 | 4°23 | 21°31 | 7° 3 | S 25 |
| M26 | 22 18 52 | 3° 6'21 | 27° 6 | 16°11 | 17°58 | 16°43 | 8°55 | 20°58 | 4°18 | 26°30 | 1°39 | 3° 4 | 4°20 | 21°38 | 7° 0 | M26 |
| T 27 | 22 22 48 | 4° 4'26 | 8♍58 | 16°40 | 19°12 | 17°21 | 9° 5 | 20°53 | 4°16 | 26°28 | 1°40 | 2°53 | 4°17 | 21°45 | 6°57 | T 27 |
| W28 | 22 26 45 | 5° 2'33 | 20°54 | 17°17 | 20°26 | 17°59 | 9°16 | 20°49 | 4°13 | 26°27 | 1°41 | 2°44 | 4°14 | 21°51 | 6°54 | W28 |
| T 29 | 22 30 41 | 6° 0'41 | 2♎53 | 18° 2 | 21°40 | 18°38 | 9°26 | 20°45 | 4°11 | 26°26 | 1°42 | 2°38 | 4°10 | 21°58 | 6°51 | T 29 |
| F 30 | 22 34 38 | 6°58'51 | 14°59 | 18°55 | 22°54 | 19°16 | 9°36 | 20°40 | 4° 8 | 26°25 | 1°42 | 2°34 | 4° 7 | 22° 5 | 6°48 | F 30 |
| S 31 | 22 38 35 | 7♍57'02 | 27♎14 | 19♌55 | 24♍ 8 | 19♌54 | 9♋46 | 20♒36 | 4♓ 6 | 26♏24 | 1♋43 | 2°D32 | 4♉ 4 | 22♌12 | 6♓45 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n 2 | 5n31 | 3n19 | 8n23 | 4s 1 | 17n 3 | 1n23 | 21n 5 | 1n 4 | 23n14 | 0s11 | 15s16 | 1s25 | 10s21 | 0s48 | 20s27 | 0n21 | 18n52 | 4s37 | 13n17 | 13n26 | 19n58 | 3s16 | 5n40 |
| F 2 | 17 46 | 0s 2 | 2 28 | 8 18 | 4 11 | 16 41 | 1 23 | 20 56 | 1 5 | 23 14 | 0 11 | 15 18 | 1 25 | 10 22 | 0 48 | 20 27 | 0 21 | 18 52 | 4 37 | 13 15 | 13 25 | 19 55 | 3 17 | 5 40 |
| S 3 | 17 31 | 5 40 | 1 29 | 8 15 | 4 20 | 16 19 | 1 24 | 20 48 | 1 5 | 23 13 | 0 11 | 15 20 | 1 25 | 10 22 | 0 48 | 20 27 | 0 21 | 18 52 | 4 37 | 13 14 | 13 24 | 19 53 | 3 18 | 5 40 |
| S 4 | 17 15 | 11 12 | 0 25 | 8 15 | 4 28 | 15 55 | 1 24 | 20 39 | 1 5 | 23 13 | 0 11 | 15 21 | 1 25 | 10 23 | 0 48 | 20 27 | 0 21 | 18 52 | 4 37 | 13 14 | 13 23 | 19 51 | 3 19 | 5 40 |
| M 5 | 16 59 | 16 26 | 0s42 | 8 18 | 4 35 | 15 32 | 1 25 | 20 31 | 1 5 | 23 13 | 0 11 | 15 23 | 1 25 | 10 24 | 0 48 | 20 28 | 0 21 | 18 52 | 4 37 | 13 14 | 13 22 | 19 48 | 3 20 | 5 41 |
| T 6 | 16 42 | 21 4 | 1 49 | 8 23 | 4 40 | 15 8 | 1 25 | 20 22 | 1 5 | 23 12 | 0 11 | 15 24 | 1 26 | 10 25 | 0 48 | 20 28 | 0 21 | 18 52 | 4 37 | 13 14 | 13 21 | 19 46 | 3 21 | 5 41 |
| W 7 | 16 25 | 24 45 | 2 52 | 8 32 | 4 44 | 14 44 | 1 26 | 20 13 | 1 6 | 23 12 | 0 11 | 15 26 | 1 26 | 10 26 | 0 48 | 20 28 | 0 21 | 18 52 | 4 37 | 13 13 | 13 20 | 19 44 | 3 21 | 5 41 |
| T 8 | 16 8 | 27 6 | 3 47 | 8 43 | 4 47 | 14 19 | 1 26 | 20 4 | 1 6 | 23 11 | 0 11 | 15 27 | 1 26 | 10 27 | 0 48 | 20 29 | 0 21 | 18 52 | 4 37 | 13 12 | 13 19 | 19 41 | 3 22 | 5 41 |
| F 9 | 15 51 | 27 43 | 4 29 | 8 57 | 4 48 | 13 54 | 1 26 | 19 55 | 1 6 | 23 11 | 0 11 | 15 29 | 1 26 | 10 27 | 0 48 | 20 29 | 0 21 | 18 52 | 4 37 | 13 9 | 13 17 | 19 39 | 3 23 | 5 41 |
| S 10 | 15 34 | 26 22 | 4 55 | 9 13 | 4 47 | 13 29 | 1 27 | 19 45 | 1 6 | 23 11 | 0 10 | 15 30 | 1 26 | 10 28 | 0 48 | 20 29 | 0 21 | 18 52 | 4 37 | 13 7 | 13 16 | 19 37 | 3 24 | 5 41 |
| S 11 | 15 16 | 23 5 | 5 0 | 9 32 | 4 44 | 13 3 | 1 27 | 19 36 | 1 7 | 23 10 | 0 10 | 15 32 | 1 26 | 10 29 | 0 48 | 20 30 | 0 21 | 18 52 | 4 37 | 13 3 | 13 15 | 19 34 | 3 25 | 5 41 |
| M12 | 14 58 | 18 10 | 4 45 | 9 53 | 4 39 | 12 37 | 1 27 | 19 26 | 1 7 | 23 10 | 0 10 | 15 33 | 1 26 | 10 30 | 0 48 | 20 30 | 0 21 | 18 52 | 4 37 | 13 0 | 13 14 | 19 32 | 3 26 | 5 41 |
| T 13 | 14 40 | 12 7 | 4 8 | 10 15 | 4 33 | 12 10 | 1 27 | 19 16 | 1 7 | 23 9 | 0 10 | 15 35 | 1 26 | 10 31 | 0 48 | 20 30 | 0 20 | 18 52 | 4 37 | 12 57 | 13 13 | 19 29 | 3 27 | 5 41 |
| W14 | 14 21 | 5 27 | 3 16 | 10 39 | 4 24 | 11 43 | 1 27 | 19 6 | 1 7 | 23 9 | 0 10 | 15 37 | 1 26 | 10 32 | 0 48 | 20 31 | 0 20 | 18 52 | 4 37 | 12 54 | 13 12 | 19 27 | 3 28 | 5 41 |
| T 15 | 14 3 | 1n22 | 2 11 | 11 4 | 4 14 | 11 16 | 1 26 | 18 56 | 1 7 | 23 8 | 0 10 | 15 38 | 1 26 | 10 32 | 0 48 | 20 31 | 0 20 | 18 52 | 4 37 | 12 53 | 13 11 | 19 25 | 3 29 | 5 41 |
| F 16 | 13 44 | 7 55 | 1 0 | 11 29 | 4 2 | 10 49 | 1 26 | 18 46 | 1 8 | 23 8 | 0 10 | 15 40 | 1 26 | 10 33 | 0 48 | 20 31 | 0 20 | 18 52 | 4 37 | 12 52 | 13 10 | 19 22 | 3 30 | 5 41 |
| S 17 | 13 25 | 13 53 | 0n13 | 11 55 | 3 49 | 10 21 | 1 26 | 18 36 | 1 8 | 23 7 | 0 10 | 15 41 | 1 26 | 10 34 | 0 48 | 20 31 | 0 20 | 18 52 | 4 37 | 12 52 | 13 9 | 19 20 | 3 31 | 5 41 |
| S 18 | 13 5 | 19 0 | 1 22 | 12 20 | 3 34 | 9 53 | 1 26 | 18 25 | 1 8 | 23 7 | 0 10 | 15 43 | 1 27 | 10 35 | 0 48 | 20 32 | 0 20 | 18 52 | 4 37 | 12 52 | 13 8 | 19 17 | 3 32 | 5 41 |
| M19 | 12 46 | 23 5 | 2 26 | 12 45 | 3 18 | 9 25 | 1 25 | 18 15 | 1 8 | 23 6 | 0 10 | 15 44 | 1 27 | 10 36 | 0 48 | 20 32 | 0 20 | 18 52 | 4 37 | 12 52 | 13 7 | 19 15 | 3 33 | 5 41 |
| T 20 | 12 26 | 25 58 | 3 20 | 13 9 | 3 1 | 8 56 | 1 25 | 18 4 | 1 8 | 23 6 | 0 10 | 15 46 | 1 27 | 10 37 | 0 48 | 20 32 | 0 20 | 18 51 | 4 37 | 12 51 | 13 6 | 19 13 | 3 34 | 5 41 |
| W21 | 12 6 | 27 32 | 4 4 | 13 31 | 2 44 | 8 27 | 1 24 | 17 53 | 1 9 | 23 5 | 0 10 | 15 47 | 1 27 | 10 38 | 0 48 | 20 33 | 0 20 | 18 51 | 4 37 | 12 50 | 13 5 | 19 10 | 3 35 | 5 41 |
| T 22 | 11 46 | 27 44 | 4 36 | 13 52 | 2 26 | 7 58 | 1 24 | 17 42 | 1 9 | 23 4 | 0 9 | 15 49 | 1 27 | 10 39 | 0 48 | 20 33 | 0 20 | 18 51 | 4 37 | 12 48 | 13 4 | 19 8 | 3 36 | 5 41 |
| F 23 | 11 25 | 26 39 | 4 56 | 14 10 | 2 7 | 7 29 | 1 23 | 17 31 | 1 9 | 23 4 | 0 9 | 15 50 | 1 27 | 10 39 | 0 48 | 20 33 | 0 20 | 18 51 | 4 37 | 12 45 | 13 3 | 19 5 | 3 37 | 5 41 |
| S 24 | 11 5 | 24 21 | 5 3 | 14 27 | 1 49 | 7 0 | 1 22 | 17 20 | 1 9 | 23 3 | 0 9 | 15 52 | 1 27 | 10 40 | 0 48 | 20 33 | 0 20 | 18 51 | 4 37 | 12 41 | 13 1 | 19 3 | 3 38 | 5 41 |
| S 25 | 10 44 | 21 1 | 4 56 | 14 41 | 1 31 | 6 30 | 1 21 | 17 9 | 1 9 | 23 3 | 0 9 | 15 53 | 1 27 | 10 41 | 0 48 | 20 34 | 0 20 | 18 51 | 4 37 | 12 37 | 13 0 | 19 0 | 3 39 | 5 41 |
| M26 | 10 23 | 16 50 | 4 37 | 14 52 | 1 13 | 6 0 | 1 20 | 16 58 | 1 10 | 23 2 | 0 9 | 15 55 | 1 27 | 10 42 | 0 48 | 20 34 | 0 20 | 18 51 | 4 37 | 12 33 | 12 59 | 18 58 | 3 41 | 5 41 |
| T 27 | 10 2 | 12 1 | 4 6 | 15 0 | 0 55 | 5 30 | 1 20 | 16 46 | 1 10 | 23 1 | 0 9 | 15 56 | 1 27 | 10 43 | 0 48 | 20 34 | 0 20 | 18 51 | 4 37 | 12 30 | 12 58 | 18 55 | 3 42 | 5 41 |
| W28 | 9 41 | 6 44 | 3 23 | 15 5 | 0 38 | 5 0 | 1 19 | 16 35 | 1 10 | 23 1 | 0 9 | 15 57 | 1 27 | 10 44 | 0 48 | 20 34 | 0 20 | 18 51 | 4 37 | 12 27 | 12 57 | 18 53 | 3 43 | 5 41 |
| T 29 | 9 19 | 1 10 | 2 32 | 15 7 | 0 21 | 4 30 | 1 17 | 16 23 | 1 10 | 23 0 | 0 9 | 15 59 | 1 27 | 10 45 | 0 48 | 20 35 | 0 20 | 18 51 | 4 37 | 12 24 | 12 56 | 18 51 | 3 44 | 5 41 |
| F 30 | 8 58 | 4s30 | 1 33 | 15 6 | 0 5 | 3 59 | 1 16 | 16 11 | 1 10 | 22 59 | 0 9 | 16 0 | 1 27 | 10 46 | 0 48 | 20 35 | 0 20 | 18 51 | 4 37 | 12 23 | 12 55 | 18 48 | 3 45 | 5 41 |
| S 31 | 8n36 | 10s 4 | 0n28 | 15n 1 | 0n 9 | 3n29 | 1n15 | 15n59 | 1n10 | 22n59 | 0s 9 | 16s 2 | 1s27 | 10s46 | 0s48 | 20s35 | 0n20 | 18n51 | 4s38 | 12n23 | 12n54 | 18n46 | 3s46 | 5n41 |

Julian Day Number = 2330862.5, Delta T = 30.01 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'41, Lahiri = 19°14'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## SEPTEMBER 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 42 31 | 8♍55'15 | 9♏42 | 21♌ 3 | 25♍22 | 20♌32 | 9♋56 | 20°R32 | 4°R 4 | 26°R23 | 1♋44 | 2♉32 | 4♉ 1 | 22♌18 | 6°R42 | S 1 |
| M 2 | 22 46 28 | 9°53'30 | 22°25 | 22°16 | 26°36 | 21°10 | 10° 5 | 20♒28 | 4♓ 1 | 26♎21 | 1°44 | 2°33 | 3°58 | 22°25 | 6♓39 | M 2 |
| T 3 | 22 50 24 | 10°51'46 | 5♐28 | 23°36 | 27°51 | 21°48 | 10°15 | 20°24 | 3°59 | 26°20 | 1°45 | 2°R34 | 3°55 | 22°32 | 6°36 | T 3 |
| W 4 | 22 54 21 | 11°50'03 | 18°53 | 25° 1 | 29° 5 | 22°26 | 10°25 | 20°20 | 3°57 | 26°19 | 1°46 | 2°34 | 3°51 | 22°38 | 6°34 | W 4 |
| T 5 | 22 58 17 | 12°48'23 | 2♎44 | 26°30 | 0♎19 | 23° 4 | 10°34 | 20°16 | 3°54 | 26°18 | 1°46 | 2°32 | 3°48 | 22°45 | 6°31 | T 5 |
| F 6 | 23 2 14 | 13°46'43 | 17° 2 | 28° 5 | 1°33 | 23°42 | 10°44 | 20°12 | 3°52 | 26°17 | 1°47 | 2°28 | 3°45 | 22°52 | 6°28 | F 6 |
| S 7 | 23 6 10 | 14°45'06 | 1♒43 | 29°43 | 2°47 | 24°20 | 10°53 | 20° 8 | 3°49 | 26°16 | 1°48 | 2°23 | 3°42 | 22°59 | 6°25 | S 7 |
| S 8 | 23 10 7 | 15°43'30 | 16°43 | 1♍24 | 4° 1 | 24°58 | 11° 2 | 20° 4 | 3°47 | 26°16 | 1°48 | 2°16 | 3°39 | 23° 5 | 6°22 | S 8 |
| M 9 | 23 14 4 | 16°41'55 | 1♓53 | 3° 8 | 5°15 | 25°36 | 11°11 | 20° 0 | 3°45 | 26°15 | 1°49 | 2° 9 | 3°36 | 23°12 | 6°19 | M 9 |
| T 10 | 23 18 0 | 17°40'22 | 17° 4 | 4°54 | 6°29 | 26°14 | 11°20 | 19°56 | 3°43 | 26°14 | 1°49 | 2° 3 | 3°32 | 23°19 | 6°16 | T 10 |
| W11 | 23 21 57 | 18°38'51 | 2♈ 6 | 6°42 | 7°43 | 26°52 | 11°28 | 19°53 | 3°40 | 26°13 | 1°50 | 1°58 | 3°29 | 23°25 | 6°14 | W11 |
| T 12 | 23 25 53 | 19°37'23 | 16°48 | 8°31 | 8°57 | 27°30 | 11°37 | 19°49 | 3°38 | 26°12 | 1°50 | 1°55 | 3°26 | 23°32 | 6°11 | T 12 |
| F 13 | 23 29 50 | 20°35'56 | 1♉ 7 | 10°22 | 10°11 | 28° 8 | 11°46 | 19°46 | 3°36 | 26°11 | 1°50 | 1°D54 | 3°23 | 23°39 | 6° 8 | F 13 |
| S 14 | 23 33 46 | 21°34'31 | 14°57 | 12°13 | 11°26 | 28°46 | 11°54 | 19°42 | 3°33 | 26°11 | 1°51 | 1°55 | 3°20 | 23°46 | 6° 5 | S 14 |
| S 15 | 23 37 43 | 22°33'09 | 28°20 | 14° 4 | 12°40 | 29°23 | 12° 2 | 19°39 | 3°31 | 26°10 | 1°51 | 1°56 | 3°16 | 23°52 | 6° 2 | S 15 |
| M16 | 23 41 39 | 23°31'49 | 11♊18 | 15°56 | 13°54 | 0♍ 1 | 12°10 | 19°35 | 3°29 | 26° 9 | 1°52 | 1°58 | 3°13 | 23°59 | 6° 0 | M16 |
| T 17 | 23 45 36 | 24°30'31 | 23°54 | 17°47 | 15° 8 | 0°39 | 12°18 | 19°32 | 3°27 | 26° 8 | 1°52 | 1°R58 | 3°10 | 24° 6 | 5°57 | T 17 |
| W18 | 23 49 33 | 25°29'16 | 6♋12 | 19°39 | 16°22 | 1°17 | 12°26 | 19°29 | 3°25 | 26° 8 | 1°52 | 1°58 | 3° 7 | 24°12 | 5°54 | W18 |
| T 19 | 23 53 29 | 26°28'02 | 18°17 | 21°30 | 17°36 | 1°55 | 12°34 | 19°26 | 3°22 | 26° 7 | 1°53 | 1°56 | 3° 4 | 24°19 | 5°52 | T 19 |
| F 20 | 23 57 26 | 27°26'51 | 0♌14 | 23°20 | 18°50 | 2°33 | 12°41 | 19°23 | 3°20 | 26° 7 | 1°53 | 1°52 | 3° 1 | 24°26 | 5°49 | F 20 |
| S 21 | 0 1 22 | 28°25'42 | 12° 6 | 25°10 | 20° 4 | 3°11 | 12°49 | 19°20 | 3°18 | 26° 6 | 1°53 | 1°47 | 2°57 | 24°33 | 5°46 | S 21 |
| S 22 | 0 5 19 | 29°24'36 | 23°57 | 26°59 | 21°18 | 3°48 | 12°56 | 19°17 | 3°16 | 26° 6 | 1°53 | 1°41 | 2°54 | 24°39 | 5°44 | S 22 |
| M23 | 0 9 15 | 0♎23'31 | 5♍50 | 28°48 | 22°32 | 4°26 | 13° 3 | 19°14 | 3°14 | 26° 5 | 1°54 | 1°35 | 2°51 | 24°46 | 5°41 | M23 |
| T 24 | 0 13 12 | 1°22'29 | 17°47 | 0♎36 | 23°46 | 5° 4 | 13°10 | 19°11 | 3°12 | 26° 5 | 1°54 | 1°30 | 2°48 | 24°53 | 5°39 | T 24 |
| W25 | 0 17 8 | 2°21'28 | 29°50 | 2°23 | 25° 0 | 5°42 | 13°17 | 19° 8 | 3°10 | 26° 4 | 1°54 | 1°26 | 2°45 | 24°59 | 5°36 | W25 |
| T 26 | 0 21 5 | 3°20'30 | 12♎ 0 | 4° 9 | 26°14 | 6°19 | 13°24 | 19° 6 | 3° 8 | 26° 4 | 1°54 | 1°23 | 2°42 | 25° 6 | 5°34 | T 26 |
| F 27 | 0 25 1 | 4°19'34 | 24°19 | 5°54 | 27°28 | 6°57 | 13°30 | 19° 3 | 3° 6 | 26° 3 | 1°54 | 1°21 | 2°38 | 25°13 | 5°31 | F 27 |
| S 28 | 0 28 58 | 5°18'40 | 6♏48 | 7°39 | 28°42 | 7°35 | 13°37 | 19° 1 | 3° 4 | 26° 3 | 1°54 | 1°D21 | 2°35 | 25°20 | 5°29 | S 28 |
| S 29 | 0 32 55 | 6°17'47 | 19°29 | 9°22 | 29°56 | 8°13 | 13°43 | 18°58 | 3° 2 | 26° 3 | 1°54 | 1°22 | 2°32 | 25°26 | 5°26 | S 29 |
| M30 | 0 36 51 | 7♎16'57 | 2♐24 | 11♎ 5 | 1♏10 | 8♍50 | 13♋49 | 18♒56 | 3♓ 0 | 26♎ 3 | 1♋54 | 1♉23 | 2♉29 | 25♌33 | 5♓24 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n14 | 15s21 | 0s38 | 14n53 | 0n23 | 2n58 | 1n14 | 15n47 | 1n11 | 22n58 | 0s 9 | 16s 3 | 1s27 | 10s47 | 0s48 | 20s35 | 0n20 | 18n51 | 4s38 | 12n23 | 12n53 | 18n43 | 3s47 | 5n41 |
| M 2 | 7 52 | 20 6 | 1 45 | 14 41 | 0 36 | 2 28 | 1 13 | 15 35 | 1 11 | 22 58 | 0 9 | 16 4 | 1 27 | 10 48 | 0 48 | 20 35 | 0 20 | 18 51 | 4 38 | 12 23 | 12 52 | 18 41 | 3 48 | 5 41 |
| T 3 | 7 30 | 24 0 | 2 48 | 14 26 | 0 48 | 1 57 | 1 11 | 15 23 | 1 11 | 22 57 | 0 8 | 16 6 | 1 27 | 10 49 | 0 48 | 20 36 | 0 20 | 18 51 | 4 38 | 12 23 | 12 51 | 18 38 | 3 49 | 5 41 |
| W 4 | 7 8 | 26 43 | 3 43 | 14 8 | 0 59 | 1 26 | 1 10 | 15 11 | 1 11 | 22 56 | 0 8 | 16 7 | 1 27 | 10 50 | 0 48 | 20 36 | 0 20 | 18 51 | 4 38 | 12 23 | 12 50 | 18 36 | 3 51 | 5 41 |
| T 5 | 6 46 | 27 55 | 4 27 | 13 47 | 1 9 | 0 55 | 1 8 | 14 59 | 1 11 | 22 56 | 0 8 | 16 8 | 1 27 | 10 51 | 0 48 | 20 36 | 0 20 | 18 51 | 4 38 | 12 23 | 12 49 | 18 33 | 3 52 | 5 40 |
| F 6 | 6 23 | 27 18 | 4 57 | 13 22 | 1 17 | 0 24 | 1 7 | 14 46 | 1 11 | 22 55 | 0 8 | 16 10 | 1 27 | 10 52 | 0 48 | 20 36 | 0 20 | 18 51 | 4 38 | 12 21 | 12 47 | 18 31 | 3 53 | 5 40 |
| S 7 | 6 1 | 24 49 | 5 8 | 12 55 | 1 25 | 0s 7 | 1 5 | 14 34 | 1 12 | 22 54 | 0 8 | 16 11 | 1 27 | 10 52 | 0 48 | 20 36 | 0 20 | 18 51 | 4 38 | 12 19 | 12 46 | 18 28 | 3 54 | 5 40 |
| S 8 | 5 38 | 20 35 | 4 58 | 12 25 | 1 31 | 0 38 | 1 3 | 14 21 | 1 12 | 22 54 | 0 8 | 16 12 | 1 27 | 10 53 | 0 48 | 20 37 | 0 20 | 18 50 | 4 38 | 12 17 | 12 45 | 18 26 | 3 55 | 5 40 |
| M 9 | 5 16 | 14 59 | 4 28 | 11 53 | 1 37 | 1 9 | 1 2 | 14 8 | 1 12 | 22 53 | 0 8 | 16 13 | 1 27 | 10 54 | 0 48 | 20 37 | 0 20 | 18 50 | 4 38 | 12 15 | 12 44 | 18 23 | 3 56 | 5 40 |
| T 10 | 4 53 | 8 28 | 3 38 | 11 18 | 1 41 | 1 40 | 1 0 | 13 56 | 1 12 | 22 52 | 0 8 | 16 14 | 1 27 | 10 55 | 0 48 | 20 37 | 0 20 | 18 50 | 4 38 | 12 12 | 12 43 | 18 20 | 3 58 | 5 40 |
| W11 | 4 30 | 1 31 | 2 34 | 10 41 | 1 45 | 2 11 | 0 58 | 13 43 | 1 12 | 22 52 | 0 8 | 16 16 | 1 27 | 10 56 | 0 48 | 20 37 | 0 20 | 18 50 | 4 38 | 12 11 | 12 42 | 18 18 | 3 59 | 5 40 |
| T 12 | 4 7 | 5n22 | 1 21 | 10 3 | 1 47 | 2 42 | 0 56 | 13 30 | 1 12 | 22 51 | 0 8 | 16 17 | 1 27 | 10 57 | 0 48 | 20 37 | 0 20 | 18 50 | 4 38 | 12 10 | 12 41 | 18 15 | 4 0 | 5 40 |
| F 13 | 3 44 | 11 49 | 0 4 | 9 23 | 1 49 | 3 13 | 0 54 | 13 17 | 1 12 | 22 50 | 0 8 | 16 18 | 1 27 | 10 57 | 0 48 | 20 38 | 0 20 | 18 50 | 4 38 | 12 10 | 12 40 | 18 13 | 4 1 | 5 39 |
| S 14 | 3 21 | 17 28 | 1n10 | 8 41 | 1 50 | 3 44 | 0 52 | 13 4 | 1 13 | 22 50 | 0 7 | 16 19 | 1 27 | 10 58 | 0 48 | 20 38 | 0 20 | 18 50 | 4 38 | 12 10 | 12 39 | 18 10 | 4 2 | 5 39 |
| S 15 | 2 58 | 22 5 | 2 19 | 7 58 | 1 50 | 4 14 | 0 50 | 12 51 | 1 13 | 22 49 | 0 7 | 16 20 | 1 27 | 10 59 | 0 48 | 20 38 | 0 20 | 18 50 | 4 38 | 12 10 | 12 38 | 18 8 | 4 3 | 5 39 |
| M16 | 2 34 | 25 26 | 3 18 | 7 14 | 1 49 | 4 45 | 0 48 | 12 37 | 1 13 | 22 48 | 0 7 | 16 21 | 1 27 | 11 0 | 0 48 | 20 38 | 0 20 | 18 50 | 4 38 | 12 11 | 12 37 | 18 5 | 4 4 | 5 39 |
| T 17 | 2 11 | 27 26 | 4 5 | 6 30 | 1 48 | 5 16 | 0 46 | 12 24 | 1 13 | 22 48 | 0 7 | 16 22 | 1 27 | 11 1 | 0 48 | 20 38 | 0 20 | 18 50 | 4 38 | 12 11 | 12 36 | 18 3 | 4 6 | 5 39 |
| W18 | 1 48 | 28 0 | 4 40 | 5 44 | 1 46 | 5 46 | 0 44 | 12 11 | 1 13 | 22 47 | 0 7 | 16 23 | 1 27 | 11 1 | 0 48 | 20 38 | 0 20 | 18 50 | 4 38 | 12 11 | 12 34 | 18 0 | 4 7 | 5 39 |
| T 19 | 1 24 | 27 14 | 5 2 | 4 58 | 1 44 | 6 17 | 0 42 | 11 57 | 1 13 | 22 46 | 0 7 | 16 24 | 1 27 | 11 2 | 0 48 | 20 38 | 0 20 | 18 50 | 4 38 | 12 10 | 12 33 | 17 57 | 4 8 | 5 38 |
| F 20 | 1 1 | 25 12 | 5 11 | 4 12 | 1 41 | 6 47 | 0 39 | 11 44 | 1 13 | 22 46 | 0 7 | 16 25 | 1 27 | 11 3 | 0 48 | 20 39 | 0 20 | 18 50 | 4 39 | 12 9 | 12 32 | 17 55 | 4 9 | 5 38 |
| S 21 | 0 38 | 22 5 | 5 6 | 3 25 | 1 38 | 7 17 | 0 37 | 11 30 | 1 13 | 22 45 | 0 7 | 16 26 | 1 27 | 11 4 | 0 48 | 20 39 | 0 20 | 18 50 | 4 39 | 12 7 | 12 31 | 17 52 | 4 10 | 5 38 |
| S 22 | 0 14 | 18 5 | 4 48 | 2 38 | 1 34 | 7 47 | 0 35 | 11 16 | 1 14 | 22 45 | 0 7 | 16 27 | 1 27 | 11 4 | 0 48 | 20 39 | 0 20 | 18 50 | 4 39 | 12 5 | 12 30 | 17 50 | 4 11 | 5 38 |
| M23 | 0s 9 | 13 23 | 4 18 | 1 51 | 1 30 | 8 17 | 0 32 | 11 3 | 1 14 | 22 44 | 0 7 | 16 28 | 1 27 | 11 5 | 0 48 | 20 39 | 0 20 | 18 50 | 4 39 | 12 3 | 12 29 | 17 47 | 4 12 | 5 38 |
| T 24 | 0 33 | 8 9 | 3 36 | 1 4 | 1 25 | 8 47 | 0 30 | 10 49 | 1 14 | 22 43 | 0 7 | 16 29 | 1 27 | 11 6 | 0 48 | 20 39 | 0 20 | 18 50 | 4 39 | 12 1 | 12 28 | 17 45 | 4 14 | 5 37 |
| W25 | 0 56 | 2 34 | 2 44 | 0 17 | 1 20 | 9 16 | 0 27 | 10 35 | 1 14 | 22 43 | 0 6 | 16 29 | 1 27 | 11 6 | 0 48 | 20 39 | 0 20 | 18 49 | 4 39 | 12 0 | 12 27 | 17 42 | 4 15 | 5 37 |
| T 26 | 1 20 | 3s 9 | 1 44 | 0s30 | 1 15 | 9 46 | 0 25 | 10 21 | 1 14 | 22 42 | 0 6 | 16 30 | 1 27 | 11 7 | 0 48 | 20 39 | 0 20 | 18 49 | 4 39 | 11 58 | 12 26 | 17 39 | 4 16 | 5 37 |
| F 27 | 1 43 | 8 51 | 0 39 | 1 17 | 1 10 | 10 15 | 0 22 | 10 7 | 1 14 | 22 42 | 0 6 | 16 31 | 1 27 | 11 8 | 0 48 | 20 39 | 0 20 | 18 49 | 4 39 | 11 58 | 12 25 | 17 37 | 4 17 | 5 37 |
| S 28 | 2 7 | 14 17 | 0s30 | 2 4 | 1 4 | 10 43 | 0 20 | 9 53 | 1 14 | 22 41 | 0 6 | 16 32 | 1 27 | 11 9 | 0 48 | 20 39 | 0 20 | 18 49 | 4 39 | 11 58 | 12 24 | 17 34 | 4 18 | 5 37 |
| S 29 | 2 30 | 19 12 | 1 38 | 2 50 | 0 58 | 11 12 | 0 17 | 9 39 | 1 14 | 22 41 | 0 6 | 16 32 | 1 27 | 11 9 | 0 48 | 20 40 | 0 20 | 18 49 | 4 39 | 11 58 | 12 22 | 17 31 | 4 19 | 5 36 |
| M30 | 2s54 | 23s20 | 2s43 | 3s36 | 0n52 | 11s40 | 0n15 | 9n25 | 1n14 | 22n40 | 0s 6 | 16s33 | 1s27 | 11s10 | 0s48 | 20s40 | 0n20 | 18n49 | 4s39 | 11n59 | 12n21 | 17n29 | 4s20 | 5n36 |

Julian Day Number = 2330893.5, Delta T = 29.96 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'46, Lahiri = 19°14'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## OCTOBER 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 40 48 | 8♎16'08 | 15♐34 | 12♎47 | 2♏24 | 9♍28 | 13♋55 | 18°R54 | 2°R59 | 26°R 2 | 1♋54 | 1♉25 | 2♉26 | 25♌40 | 5°R22 | T 1 |
| W 2 | 0 44 44 | 9°15'22 | 29° 2 | 14°29 | 3°38 | 10° 6 | 14° 1 | 18♒52 | 2♓57 | 26♑ 2 | 1°R54 | 1°26 | 2°22 | 25°46 | 5♓19 | W 2 |
| T 3 | 0 48 41 | 10°14'37 | 12♑48 | 16° 9 | 4°52 | 10°43 | 14° 6 | 18°50 | 2°55 | 26° 2 | 1°54 | 1°R26 | 2°19 | 25°53 | 5°17 | T 3 |
| F 4 | 0 52 37 | 11°13'54 | 26°54 | 17°49 | 6° 6 | 11°21 | 14°12 | 18°48 | 2°53 | 26° 2 | 1°54 | 1°26 | 2°16 | 26° 0 | 5°15 | F 4 |
| S 5 | 0 56 34 | 12°13'12 | 11♒17 | 19°27 | 7°20 | 11°59 | 14°17 | 18°46 | 2°52 | 26° 2 | 1°54 | 1°24 | 2°13 | 26° 7 | 5°13 | S 5 |
| S 6 | 1 0 30 | 13°12'32 | 25°55 | 21° 6 | 8°34 | 12°36 | 14°22 | 18°45 | 2°50 | 26° 2 | 1°54 | 1°22 | 2°10 | 26°13 | 5°11 | S 6 |
| M 7 | 1 4 27 | 14°11'54 | 10♓43 | 22°43 | 9°48 | 13°14 | 14°27 | 18°43 | 2°48 | 26° 2 | 1°54 | 1°20 | 2° 7 | 26°20 | 5° 9 | M 7 |
| T 8 | 1 8 24 | 15°11'18 | 25°33 | 24°20 | 11° 2 | 13°52 | 14°32 | 18°41 | 2°47 | 26°D 2 | 1°54 | 1°18 | 2° 3 | 26°27 | 5° 7 | T 8 |
| W 9 | 1 12 20 | 16°10'44 | 10♈18 | 25°56 | 12°15 | 14°29 | 14°36 | 18°40 | 2°45 | 26° 2 | 1°54 | 1°16 | 2° 0 | 26°33 | 5° 5 | W 9 |
| T 10 | 1 16 17 | 17°10'12 | 24°50 | 27°31 | 13°29 | 15° 7 | 14°41 | 18°39 | 2°44 | 26° 2 | 1°54 | 1°D15 | 1°57 | 26°40 | 5° 3 | T 10 |
| F 11 | 1 20 13 | 18° 9'42 | 9♉ 4 | 29° 5 | 14°43 | 15°44 | 14°45 | 18°37 | 2°42 | 26° 2 | 1°53 | 1°15 | 1°54 | 26°47 | 5° 1 | F 11 |
| S 12 | 1 24 10 | 19° 9'14 | 22°55 | 0♏39 | 15°57 | 16°22 | 14°49 | 18°36 | 2°41 | 26° 2 | 1°53 | 1°16 | 1°51 | 26°54 | 4°59 | S 12 |
| S 13 | 1 28 6 | 20° 8'48 | 6♊22 | 2°13 | 17°11 | 16°59 | 14°53 | 18°35 | 2°39 | 26° 2 | 1°53 | 1°17 | 1°47 | 27° 0 | 4°57 | S 13 |
| M14 | 1 32 3 | 21° 8'25 | 19°24 | 3°45 | 18°25 | 17°37 | 14°57 | 18°34 | 2°38 | 26° 2 | 1°53 | 1°18 | 1°44 | 27° 7 | 4°55 | M14 |
| T 15 | 1 35 59 | 22° 8'04 | 2♋ 5 | 5°18 | 19°39 | 18°14 | 15° 0 | 18°34 | 2°37 | 26° 3 | 1°52 | 1°19 | 1°41 | 27°14 | 4°54 | T 15 |
| W16 | 1 39 56 | 23° 7'45 | 14°27 | 6°49 | 20°52 | 18°52 | 15° 4 | 18°33 | 2°36 | 26° 3 | 1°52 | 1°19 | 1°38 | 27°20 | 4°52 | W16 |
| T 17 | 1 43 53 | 24° 7'28 | 26°34 | 8°20 | 22° 6 | 19°29 | 15° 7 | 18°32 | 2°34 | 26° 3 | 1°52 | 1°R20 | 1°35 | 27°27 | 4°50 | T 17 |
| F 18 | 1 47 49 | 25° 7'14 | 8♌32 | 9°50 | 23°20 | 20° 7 | 15°10 | 18°32 | 2°33 | 26° 3 | 1°51 | 1°19 | 1°32 | 27°34 | 4°49 | F 18 |
| S 19 | 1 51 46 | 26° 7'02 | 20°24 | 11°20 | 24°34 | 20°44 | 15°13 | 18°31 | 2°32 | 26° 4 | 1°51 | 1°19 | 1°28 | 27°41 | 4°47 | S 19 |
| S 20 | 1 55 42 | 27° 6'52 | 2♍16 | 12°49 | 25°48 | 21°22 | 15°15 | 18°31 | 2°31 | 26° 4 | 1°51 | 1°18 | 1°25 | 27°47 | 4°46 | S 20 |
| M21 | 1 59 39 | 28° 6'45 | 14°10 | 14°18 | 27° 1 | 21°59 | 15°18 | 18°31 | 2°30 | 26° 5 | 1°50 | 1°18 | 1°22 | 27°54 | 4°44 | M21 |
| T 22 | 2 3 35 | 29° 6'39 | 26°12 | 15°46 | 28°15 | 22°37 | 15°20 | 18°31 | 2°29 | 26° 5 | 1°50 | 1°17 | 1°19 | 28° 1 | 4°43 | T 22 |
| W23 | 2 7 32 | 0♏ 6'35 | 8♎23 | 17°13 | 29°29 | 23°14 | 15°22 | 18°D31 | 2°28 | 26° 6 | 1°49 | 1°17 | 1°16 | 28° 7 | 4°42 | W23 |
| T 24 | 2 11 28 | 1° 6'34 | 20°45 | 18°40 | 0♐43 | 23°52 | 15°24 | 18°31 | 2°27 | 26° 6 | 1°49 | 1°D17 | 1°13 | 28°14 | 4°40 | T 24 |
| F 25 | 2 15 25 | 2° 6'34 | 3♏20 | 20° 6 | 1°56 | 24°29 | 15°25 | 18°31 | 2°26 | 26° 7 | 1°48 | 1°R17 | 1° 9 | 28°21 | 4°39 | F 25 |
| S 26 | 2 19 22 | 3° 6'37 | 16°10 | 21°31 | 3°10 | 25° 6 | 15°27 | 18°31 | 2°25 | 26° 7 | 1°48 | 1°17 | 1° 6 | 28°27 | 4°38 | S 26 |
| S 27 | 2 23 18 | 4° 6'41 | 29°13 | 22°56 | 4°24 | 25°44 | 15°28 | 18°32 | 2°25 | 26° 8 | 1°47 | 1°17 | 1° 3 | 28°34 | 4°37 | S 27 |
| M28 | 2 27 15 | 5° 6'48 | 12♐29 | 24°19 | 5°37 | 26°21 | 15°29 | 18°32 | 2°24 | 26° 9 | 1°47 | 1°17 | 1° 0 | 28°41 | 4°36 | M28 |
| T 29 | 2 31 11 | 6° 6'55 | 25°59 | 25°42 | 6°51 | 26°59 | 15°30 | 18°33 | 2°23 | 26° 9 | 1°46 | 1°16 | 0°57 | 28°48 | 4°35 | T 29 |
| W30 | 2 35 8 | 7° 7'05 | 9♑41 | 27° 4 | 8° 5 | 27°36 | 15°31 | 18°34 | 2°23 | 26°10 | 1°45 | 1°15 | 0°53 | 28°54 | 4°34 | W30 |
| T 31 | 2 39 4 | 8♏ 7'16 | 23♑33 | 28♏26 | 9♐18 | 28♍13 | 15♋31 | 18♒34 | 2♓22 | 26♑11 | 1♋45 | 1♉15 | 0♉50 | 29♌ 1 | 4♓33 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s17 | 26s21 | 3s40 | 4s22 | 0n46 | 12s 9 | 0n12 | 9n11 | 1n15 | 22n40 | 0s 6 | 16s34 | 1s27 | 11s10 | 0s48 | 20s40 | 0n20 | 18n49 | 4s39 | 11n59 | 12n20 | 17n26 | 4s21 | 5n36 |
| W 2 | 3 41 | 27 55 | 4 26 | 5 7 | 0 39 | 12 36 | 0 9 | 8 57 | 1 15 | 22 39 | 0 6 | 16 34 | 1 27 | 11 11 | 0 48 | 20 40 | 0 20 | 18 49 | 4 39 | 12 0 | 12 19 | 17 24 | 4 22 | 5 36 |
| T 3 | 4 4 | 27 49 | 4 59 | 5 52 | 0 33 | 13 4 | 0 7 | 8 43 | 1 15 | 22 39 | 0 6 | 16 35 | 1 27 | 11 12 | 0 48 | 20 40 | 0 19 | 18 49 | 4 39 | 12 0 | 12 18 | 17 21 | 4 23 | 5 35 |
| F 4 | 4 27 | 25 57 | 5 14 | 6 36 | 0 26 | 13 31 | 0 4 | 8 28 | 1 15 | 22 38 | 0 6 | 16 35 | 1 27 | 11 12 | 0 48 | 20 40 | 0 19 | 18 49 | 4 39 | 12 0 | 12 17 | 17 18 | 4 24 | 5 35 |
| S 5 | 4 50 | 22 23 | 5 10 | 7 20 | 0 20 | 13 58 | 0 1 | 8 14 | 1 15 | 22 38 | 0 5 | 16 36 | 1 27 | 11 13 | 0 48 | 20 40 | 0 19 | 18 49 | 4 39 | 11 59 | 12 16 | 17 16 | 4 25 | 5 35 |
| S 6 | 5 13 | 17 24 | 4 47 | 8 3 | 0 13 | 14 25 | 0s 2 | 8 0 | 1 15 | 22 37 | 0 5 | 16 36 | 1 27 | 11 13 | 0 48 | 20 40 | 0 19 | 18 49 | 4 39 | 11 58 | 12 15 | 17 13 | 4 26 | 5 34 |
| M 7 | 5 37 | 11 19 | 4 4 | 8 46 | 0 6 | 14 51 | 0 4 | 7 45 | 1 15 | 22 37 | 0 5 | 16 37 | 1 26 | 11 14 | 0 48 | 20 40 | 0 19 | 18 49 | 4 39 | 11 57 | 12 14 | 17 10 | 4 27 | 5 34 |
| T 8 | 6 0 | 4 36 | 3 5 | 9 28 | 0s 1 | 15 17 | 0 7 | 7 31 | 1 15 | 22 36 | 0 5 | 16 37 | 1 26 | 11 15 | 0 48 | 20 40 | 0 19 | 18 49 | 4 40 | 11 57 | 12 13 | 17 8 | 4 28 | 5 34 |
| W 9 | 6 23 | 2n21 | 1 53 | 10 9 | 0 8 | 15 42 | 0 10 | 7 16 | 1 15 | 22 36 | 0 5 | 16 38 | 1 26 | 11 15 | 0 48 | 20 40 | 0 19 | 18 49 | 4 40 | 11 56 | 12 12 | 17 5 | 4 29 | 5 34 |
| T 10 | 6 45 | 9 5 | 0 35 | 10 50 | 0 15 | 16 7 | 0 13 | 7 2 | 1 15 | 22 36 | 0 5 | 16 38 | 1 26 | 11 16 | 0 48 | 20 40 | 0 19 | 18 49 | 4 40 | 11 56 | 12 10 | 17 2 | 4 30 | 5 33 |
| F 11 | 7 8 | 15 13 | 0n43 | 11 30 | 0 22 | 16 32 | 0 16 | 6 47 | 1 15 | 22 35 | 0 5 | 16 38 | 1 26 | 11 16 | 0 48 | 20 40 | 0 19 | 18 49 | 4 40 | 11 56 | 12 9 | 17 0 | 4 31 | 5 33 |
| S 12 | 7 31 | 20 25 | 1 57 | 12 10 | 0 28 | 16 56 | 0 18 | 6 33 | 1 15 | 22 35 | 0 5 | 16 39 | 1 26 | 11 17 | 0 48 | 20 40 | 0 19 | 18 49 | 4 40 | 11 56 | 12 8 | 16 57 | 4 32 | 5 33 |
| S 13 | 7 53 | 24 24 | 3 2 | 12 49 | 0 35 | 17 20 | 0 21 | 6 18 | 1 15 | 22 34 | 0 5 | 16 39 | 1 26 | 11 17 | 0 48 | 20 40 | 0 19 | 18 49 | 4 40 | 11 57 | 12 7 | 16 54 | 4 33 | 5 32 |
| M14 | 8 16 | 26 59 | 3 56 | 13 27 | 0 42 | 17 43 | 0 24 | 6 4 | 1 16 | 22 34 | 0 5 | 16 39 | 1 26 | 11 18 | 0 48 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 12 6 | 16 52 | 4 34 | 5 32 |
| T 15 | 8 38 | 28 5 | 4 37 | 14 5 | 0 49 | 18 6 | 0 27 | 5 49 | 1 16 | 22 34 | 0 4 | 16 39 | 1 26 | 11 18 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 12 5 | 16 49 | 4 35 | 5 32 |
| W16 | 9 0 | 27 43 | 5 3 | 14 41 | 0 56 | 18 29 | 0 30 | 5 34 | 1 16 | 22 34 | 0 4 | 16 39 | 1 26 | 11 18 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 12 4 | 16 46 | 4 36 | 5 32 |
| T 17 | 9 22 | 26 3 | 5 16 | 15 17 | 1 2 | 18 51 | 0 32 | 5 20 | 1 16 | 22 33 | 0 4 | 16 40 | 1 26 | 11 19 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 12 3 | 16 43 | 4 37 | 5 31 |
| F 18 | 9 44 | 23 13 | 5 14 | 15 53 | 1 9 | 19 13 | 0 35 | 5 5 | 1 16 | 22 33 | 0 4 | 16 40 | 1 26 | 11 19 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 12 2 | 16 41 | 4 38 | 5 31 |
| S 19 | 10 6 | 19 26 | 5 0 | 16 27 | 1 15 | 19 34 | 0 38 | 4 50 | 1 16 | 22 33 | 0 4 | 16 40 | 1 26 | 11 20 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 12 1 | 16 38 | 4 38 | 5 31 |
| S 20 | 10 28 | 14 55 | 4 32 | 17 1 | 1 22 | 19 54 | 0 41 | 4 35 | 1 16 | 22 33 | 0 4 | 16 40 | 1 26 | 11 20 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 11 59 | 16 35 | 4 39 | 5 30 |
| M21 | 10 49 | 9 49 | 3 53 | 17 33 | 1 28 | 20 14 | 0 44 | 4 21 | 1 16 | 22 33 | 0 4 | 16 40 | 1 26 | 11 20 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 11 58 | 16 33 | 4 40 | 5 30 |
| T 22 | 11 11 | 4 18 | 3 3 | 18 5 | 1 34 | 20 34 | 0 46 | 4 6 | 1 16 | 22 32 | 0 4 | 16 40 | 1 25 | 11 21 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 11 57 | 16 30 | 4 41 | 5 30 |
| W23 | 11 32 | 1s26 | 2 4 | 18 36 | 1 40 | 20 53 | 0 49 | 3 51 | 1 16 | 22 32 | 0 4 | 16 40 | 1 25 | 11 21 | 0 47 | 20 40 | 0 19 | 18 48 | 4 40 | 11 57 | 11 56 | 16 27 | 4 42 | 5 29 |
| T 24 | 11 53 | 7 13 | 0 58 | 19 6 | 1 46 | 21 11 | 0 52 | 3 36 | 1 16 | 22 32 | 0 3 | 16 40 | 1 25 | 11 21 | 0 47 | 20 39 | 0 19 | 18 48 | 4 40 | 11 57 | 11 55 | 16 24 | 4 42 | 5 29 |
| F 25 | 12 14 | 12 50 | 0s11 | 19 35 | 1 51 | 21 29 | 0 55 | 3 22 | 1 16 | 22 32 | 0 3 | 16 39 | 1 25 | 11 22 | 0 47 | 20 39 | 0 19 | 18 48 | 4 40 | 11 57 | 11 54 | 16 22 | 4 43 | 5 29 |
| S 26 | 12 34 | 18 0 | 1 22 | 20 3 | 1 57 | 21 46 | 0 57 | 3 7 | 1 16 | 22 32 | 0 3 | 16 39 | 1 25 | 11 22 | 0 47 | 20 39 | 0 19 | 18 48 | 4 40 | 11 57 | 11 53 | 16 19 | 4 44 | 5 28 |
| S 27 | 12 55 | 22 26 | 2 29 | 20 30 | 2 2 | 22 3 | 1 0 | 2 52 | 1 16 | 22 32 | 0 3 | 16 39 | 1 25 | 11 22 | 0 47 | 20 39 | 0 19 | 18 48 | 4 40 | 11 57 | 11 52 | 16 16 | 4 45 | 5 28 |
| M28 | 13 15 | 25 47 | 3 29 | 20 56 | 2 7 | 22 19 | 1 3 | 2 37 | 1 16 | 22 32 | 0 3 | 16 39 | 1 25 | 11 22 | 0 47 | 20 39 | 0 19 | 18 48 | 4 40 | 11 56 | 11 51 | 16 13 | 4 45 | 5 28 |
| T 29 | 13 35 | 27 44 | 4 19 | 21 21 | 2 12 | 22 34 | 1 5 | 2 22 | 1 16 | 22 32 | 0 3 | 16 39 | 1 25 | 11 23 | 0 47 | 20 39 | 0 19 | 18 48 | 4 40 | 11 56 | 11 49 | 16 11 | 4 46 | 5 27 |
| W30 | 13 55 | 28 2 | 4 55 | 21 45 | 2 16 | 22 49 | 1 8 | 2 7 | 1 16 | 22 32 | 0 3 | 16 38 | 1 25 | 11 23 | 0 47 | 20 39 | 0 19 | 18 48 | 4 41 | 11 56 | 11 48 | 16 8 | 4 47 | 5 27 |
| T 31 | 14s14 | 26s35 | 5s14 | 22s 7 | 2s20 | 23s 3 | 1s11 | 1n52 | 1n16 | 22n32 | 0s 3 | 16s38 | 1s25 | 11s23 | 0s47 | 20s39 | 0n19 | 18n48 | 4s41 | 11n56 | 11n47 | 16n 5 | 4s47 | 5n27 |

Julian Day Number = 2330923.5, Delta T = 29.90 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'50, Lahiri = 19°14'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## NOVEMBER 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 43 1 | 9♏ 7'29 | 7♒36 | 29♏46 | 10♐32 | 28♍50 | 15♋31 | 18♒35 | 2°R21 | 26♑12 | 1°R44 | 1°D15 | 0♉47 | 29♌ 8 | 4°R32 | F 1 |
| S 2 | 2 46 57 | 10° 7'43 | 21°48 | 1♐ 5 | 11°46 | 29°28 | 15°R31 | 18°36 | 2♓21 | 26°13 | 1♋43 | 1♉15 | 0°44 | 29°14 | 4♓31 | S 2 |
| S 3 | 2 50 54 | 11° 7'58 | 6♓ 5 | 2°22 | 12°59 | 0♎ 5 | 15°31 | 18°37 | 2°20 | 26°13 | 1°43 | 1°15 | 0°41 | 29°21 | 4°31 | S 3 |
| M 4 | 2 54 51 | 12° 8'15 | 20°26 | 3°39 | 14°13 | 0°42 | 15°31 | 18°39 | 2°20 | 26°14 | 1°42 | 1°16 | 0°38 | 29°28 | 4°30 | M 4 |
| T 5 | 2 58 47 | 13° 8'33 | 4♈48 | 4°53 | 15°26 | 1°19 | 15°30 | 18°40 | 2°20 | 26°15 | 1°41 | 1°17 | 0°34 | 29°35 | 4°29 | T 5 |
| W 6 | 3 2 44 | 14° 8'53 | 19° 5 | 6° 6 | 16°40 | 1°57 | 15°30 | 18°41 | 2°20 | 26°16 | 1°41 | 1°18 | 0°31 | 29°41 | 4°29 | W 6 |
| T 7 | 3 6 40 | 15° 9'15 | 3♉13 | 7°17 | 17°53 | 2°34 | 15°29 | 18°43 | 2°19 | 26°17 | 1°40 | 1°R18 | 0°28 | 29°48 | 4°28 | T 7 |
| F 8 | 3 10 37 | 16° 9'38 | 17° 9 | 8°26 | 19° 7 | 3°11 | 15°28 | 18°45 | 2°19 | 26°18 | 1°39 | 1°18 | 0°25 | 29°55 | 4°28 | F 8 |
| S 9 | 3 14 33 | 17°10'03 | 0♊49 | 9°32 | 20°20 | 3°48 | 15°26 | 18°46 | 2°19 | 26°19 | 1°38 | 1°16 | 0°22 | 0♍ 1 | 4°28 | S 9 |
| S 10 | 3 18 30 | 18°10'29 | 14°10 | 10°36 | 21°33 | 4°25 | 15°25 | 18°48 | 2°19 | 26°20 | 1°37 | 1°14 | 0°19 | 0° 8 | 4°27 | S 10 |
| M11 | 3 22 26 | 19°10'58 | 27°11 | 11°36 | 22°47 | 5° 3 | 15°23 | 18°50 | 2°D19 | 26°21 | 1°37 | 1°12 | 0°15 | 0°15 | 4°27 | M11 |
| T 12 | 3 26 23 | 20°11'28 | 9♋53 | 12°33 | 24° 0 | 5°40 | 15°21 | 18°52 | 2°19 | 26°23 | 1°36 | 1° 9 | 0°12 | 0°21 | 4°27 | T 12 |
| W13 | 3 30 20 | 21°12'00 | 22°17 | 13°26 | 25°14 | 6°17 | 15°19 | 18°54 | 2°19 | 26°24 | 1°35 | 1° 6 | 0° 9 | 0°28 | 4°27 | W13 |
| T 14 | 3 34 16 | 22°12'33 | 4♌27 | 14°14 | 26°27 | 6°54 | 15°17 | 18°57 | 2°19 | 26°25 | 1°34 | 1° 4 | 0° 6 | 0°35 | 4°D27 | T 14 |
| F 15 | 3 38 13 | 23°13'09 | 16°26 | 14°57 | 27°40 | 7°31 | 15°14 | 18°59 | 2°19 | 26°26 | 1°33 | 1° 3 | 0° 3 | 0°42 | 4°27 | F 15 |
| S 16 | 3 42 9 | 24°13'46 | 28°18 | 15°35 | 28°53 | 8° 8 | 15°11 | 19° 1 | 2°19 | 26°27 | 1°32 | 1°D 3 | 29♈59 | 0°48 | 4°27 | S 16 |
| S 17 | 3 46 6 | 25°14'24 | 10♍10 | 16° 6 | 0♑ 7 | 8°45 | 15° 9 | 19° 4 | 2°20 | 26°29 | 1°31 | 1° 4 | 29°56 | 0°55 | 4°27 | S 17 |
| M18 | 3 50 2 | 26°15'05 | 22° 5 | 16°29 | 1°20 | 9°22 | 15° 5 | 19° 6 | 2°20 | 26°30 | 1°30 | 1° 5 | 29°53 | 1° 2 | 4°27 | M18 |
| T 19 | 3 53 59 | 27°15'47 | 4♎ 8 | 16°45 | 2°33 | 9°59 | 15° 2 | 19° 9 | 2°20 | 26°31 | 1°29 | 1° 7 | 29°50 | 1° 8 | 4°28 | T 19 |
| W20 | 3 57 55 | 28°16'30 | 16°23 | 16°R52 | 3°46 | 10°36 | 14°59 | 19°12 | 2°21 | 26°33 | 1°28 | 1° 9 | 29°47 | 1°15 | 4°28 | W20 |
| T 21 | 4 1 52 | 29°17'16 | 28°55 | 16°50 | 4°59 | 11°13 | 14°55 | 19°15 | 2°21 | 26°34 | 1°27 | 1°R 9 | 29°44 | 1°22 | 4°28 | T 21 |
| F 22 | 4 5 49 | 0♐18'02 | 11♏45 | 16°37 | 6°12 | 11°50 | 14°51 | 19°18 | 2°22 | 26°36 | 1°26 | 1° 9 | 29°40 | 1°29 | 4°29 | F 22 |
| S 23 | 4 9 45 | 1°18'51 | 24°54 | 16°13 | 7°26 | 12°27 | 14°47 | 19°21 | 2°23 | 26°37 | 1°25 | 1° 7 | 29°37 | 1°35 | 4°29 | S 23 |
| S 24 | 4 13 42 | 2°19'40 | 8♐22 | 15°39 | 8°39 | 13° 4 | 14°43 | 19°24 | 2°23 | 26°39 | 1°24 | 1° 3 | 29°34 | 1°42 | 4°30 | S 24 |
| M25 | 4 17 38 | 3°20'31 | 22° 6 | 14°53 | 9°52 | 13°41 | 14°38 | 19°28 | 2°24 | 26°40 | 1°23 | 0°59 | 29°31 | 1°49 | 4°30 | M25 |
| T 26 | 4 21 35 | 4°21'23 | 6♑ 4 | 13°58 | 11° 5 | 14°18 | 14°34 | 19°31 | 2°25 | 26°42 | 1°22 | 0°53 | 29°28 | 1°55 | 4°31 | T 26 |
| W27 | 4 25 31 | 5°22'16 | 20°11 | 12°52 | 12°17 | 14°55 | 14°29 | 19°34 | 2°25 | 26°43 | 1°21 | 0°48 | 29°25 | 2° 2 | 4°32 | W27 |
| T 28 | 4 29 28 | 6°23'09 | 4♒24 | 11°39 | 13°30 | 15°31 | 14°24 | 19°38 | 2°26 | 26°45 | 1°20 | 0°43 | 29°21 | 2° 9 | 4°32 | T 28 |
| F 29 | 4 33 25 | 7°24'04 | 18°37 | 10°20 | 14°43 | 16° 8 | 14°19 | 19°42 | 2°27 | 26°46 | 1°19 | 0°40 | 29°18 | 2°15 | 4°33 | F 29 |
| S 30 | 4 37 21 | 8♐24'59 | 2♓50 | 8♐58 | 15♑56 | 16♎45 | 14♋14 | 19♒45 | 2♓28 | 26♑48 | 1♋18 | 0°D39 | 29♈15 | 2♍22 | 4♓34 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14s34 | 23s28 | 5s15 | 22s29 | 2s24 | 23s16 | 1s13 | 1n38 | 1n16 | 22n32 | 0s 2 | 16s38 | 1s25 | 11s23 | 0s47 | 20s39 | 0n19 | 18n48 | 4s41 | 11n56 | 11n46 | 16n 2 | 4s48 | 5n26 |
| S 2 | 14 53 | 18 57 | 4 57 | 22 49 | 2 28 | 23 29 | 1 16 | 1 23 | 1 16 | 22 32 | 0 2 | 16 37 | 1 25 | 11 23 | 0 47 | 20 38 | 0 19 | 18 48 | 4 41 | 11 56 | 11 45 | 16 0 | 4 49 | 5 26 |
| S 3 | 15 12 | 13 19 | 4 20 | 23 8 | 2 31 | 23 41 | 1 18 | 1 8 | 1 16 | 22 33 | 0 2 | 16 37 | 1 25 | 11 23 | 0 47 | 20 38 | 0 19 | 18 48 | 4 41 | 11 56 | 11 44 | 15 57 | 4 49 | 5 25 |
| M 4 | 15 30 | 6 58 | 3 27 | 23 26 | 2 33 | 23 53 | 1 20 | 0 53 | 1 16 | 22 33 | 0 2 | 16 36 | 1 25 | 11 23 | 0 47 | 20 38 | 0 19 | 18 48 | 4 41 | 11 56 | 11 43 | 15 54 | 4 50 | 5 25 |
| T 5 | 15 49 | 0 15 | 2 22 | 23 42 | 2 36 | 24 4 | 1 23 | 0 38 | 1 16 | 22 33 | 0 2 | 16 36 | 1 24 | 11 23 | 0 47 | 20 38 | 0 19 | 18 48 | 4 41 | 11 57 | 11 42 | 15 51 | 4 50 | 5 25 |
| W 6 | 16 7 | 6n27 | 1 7 | 23 57 | 2 38 | 24 14 | 1 25 | 0 23 | 1 16 | 22 33 | 0 2 | 16 35 | 1 24 | 11 24 | 0 47 | 20 38 | 0 19 | 18 48 | 4 41 | 11 57 | 11 41 | 15 48 | 4 51 | 5 24 |
| T 7 | 16 25 | 12 47 | 0n11 | 24 11 | 2 39 | 24 23 | 1 28 | 0 9 | 1 16 | 22 33 | 0 2 | 16 35 | 1 24 | 11 24 | 0 47 | 20 38 | 0 19 | 18 48 | 4 41 | 11 57 | 11 39 | 15 46 | 4 51 | 5 24 |
| F 8 | 16 42 | 18 22 | 1 27 | 24 23 | 2 40 | 24 32 | 1 30 | 0s 6 | 1 16 | 22 34 | 0 2 | 16 34 | 1 24 | 11 24 | 0 47 | 20 37 | 0 19 | 18 48 | 4 41 | 11 57 | 11 38 | 15 43 | 4 52 | 5 24 |
| S 9 | 17 0 | 22 54 | 2 36 | 24 33 | 2 40 | 24 40 | 1 32 | 0 21 | 1 16 | 22 34 | 0 2 | 16 34 | 1 24 | 11 24 | 0 47 | 20 37 | 0 19 | 18 48 | 4 41 | 11 56 | 11 37 | 15 40 | 4 52 | 5 23 |
| S 10 | 17 16 | 26 6 | 3 35 | 24 42 | 2 39 | 24 47 | 1 34 | 0 36 | 1 16 | 22 34 | 0 1 | 16 33 | 1 24 | 11 24 | 0 47 | 20 37 | 0 19 | 18 48 | 4 41 | 11 56 | 11 36 | 15 37 | 4 53 | 5 23 |
| M11 | 17 33 | 27 49 | 4 21 | 24 50 | 2 38 | 24 53 | 1 36 | 0 51 | 1 16 | 22 34 | 0 1 | 16 32 | 1 24 | 11 24 | 0 47 | 20 37 | 0 19 | 18 48 | 4 41 | 11 55 | 11 35 | 15 34 | 4 53 | 5 23 |
| T 12 | 17 50 | 28 0 | 4 54 | 24 56 | 2 36 | 24 59 | 1 38 | 1 5 | 1 16 | 22 35 | 0 1 | 16 31 | 1 24 | 11 24 | 0 46 | 20 37 | 0 19 | 18 48 | 4 41 | 11 54 | 11 34 | 15 32 | 4 54 | 5 22 |
| W13 | 18 6 | 26 45 | 5 11 | 25 0 | 2 33 | 25 4 | 1 40 | 1 20 | 1 16 | 22 35 | 0 1 | 16 31 | 1 24 | 11 23 | 0 46 | 20 37 | 0 19 | 18 48 | 4 41 | 11 53 | 11 33 | 15 29 | 4 54 | 5 22 |
| T 14 | 18 21 | 24 16 | 5 14 | 25 2 | 2 30 | 25 8 | 1 42 | 1 35 | 1 16 | 22 36 | 0 1 | 16 30 | 1 24 | 11 23 | 0 46 | 20 36 | 0 19 | 18 48 | 4 41 | 11 52 | 11 32 | 15 26 | 4 54 | 5 21 |
| F 15 | 18 37 | 20 46 | 5 4 | 25 2 | 2 25 | 25 12 | 1 44 | 1 49 | 1 16 | 22 36 | 0 1 | 16 29 | 1 24 | 11 23 | 0 46 | 20 36 | 0 19 | 18 48 | 4 41 | 11 52 | 11 31 | 15 23 | 4 55 | 5 21 |
| S 16 | 18 52 | 16 27 | 4 40 | 25 0 | 2 19 | 25 15 | 1 46 | 2 4 | 1 16 | 22 36 | 0 1 | 16 28 | 1 24 | 11 23 | 0 46 | 20 36 | 0 19 | 18 48 | 4 41 | 11 52 | 11 29 | 15 20 | 4 55 | 5 21 |
| S 17 | 19 7 | 11 33 | 4 5 | 24 57 | 2 12 | 25 17 | 1 48 | 2 19 | 1 16 | 22 37 | 0 0 | 16 27 | 1 24 | 11 23 | 0 46 | 20 36 | 0 19 | 18 48 | 4 41 | 11 52 | 11 28 | 15 17 | 4 55 | 5 20 |
| M18 | 19 21 | 6 11 | 3 18 | 24 51 | 2 4 | 25 18 | 1 49 | 2 33 | 1 16 | 22 37 | 0 0 | 16 27 | 1 23 | 11 23 | 0 46 | 20 35 | 0 18 | 18 48 | 4 41 | 11 52 | 11 27 | 15 15 | 4 56 | 5 20 |
| T 19 | 19 35 | 0 33 | 2 23 | 24 43 | 1 54 | 25 19 | 1 51 | 2 48 | 1 16 | 22 38 | 0 0 | 16 26 | 1 23 | 11 23 | 0 46 | 20 35 | 0 18 | 18 48 | 4 41 | 11 53 | 11 26 | 15 12 | 4 56 | 5 20 |
| W20 | 19 49 | 5s13 | 1 20 | 24 33 | 1 43 | 25 18 | 1 53 | 3 2 | 1 16 | 22 38 | 0 0 | 16 25 | 1 23 | 11 23 | 0 46 | 20 35 | 0 18 | 18 48 | 4 41 | 11 54 | 11 25 | 15 9 | 4 56 | 5 19 |
| T 21 | 20 2 | 10 55 | 0 12 | 24 20 | 1 31 | 25 17 | 1 54 | 3 17 | 1 16 | 22 39 | 0n 0 | 16 24 | 1 23 | 11 22 | 0 46 | 20 35 | 0 18 | 18 48 | 4 41 | 11 54 | 11 24 | 15 6 | 4 56 | 5 19 |
| F 22 | 20 15 | 16 18 | 0s58 | 24 5 | 1 17 | 25 16 | 1 56 | 3 32 | 1 16 | 22 40 | 0 0 | 16 23 | 1 23 | 11 22 | 0 46 | 20 34 | 0 18 | 18 48 | 4 41 | 11 54 | 11 23 | 15 3 | 4 56 | 5 18 |
| S 23 | 20 28 | 21 4 | 2 6 | 23 47 | 1 1 | 25 13 | 1 57 | 3 46 | 1 16 | 22 40 | 0 0 | 16 22 | 1 23 | 11 22 | 0 46 | 20 34 | 0 18 | 18 48 | 4 41 | 11 53 | 11 22 | 15 0 | 4 57 | 5 18 |
| S 24 | 20 40 | 24 51 | 3 9 | 23 26 | 0 44 | 25 10 | 1 58 | 4 0 | 1 16 | 22 41 | 0 0 | 16 21 | 1 23 | 11 22 | 0 46 | 20 34 | 0 18 | 18 48 | 4 41 | 11 52 | 11 20 | 14 58 | 4 57 | 5 18 |
| M25 | 20 52 | 27 17 | 4 3 | 23 3 | 0 26 | 25 6 | 1 59 | 4 15 | 1 16 | 22 41 | 0 1 | 16 19 | 1 23 | 11 21 | 0 46 | 20 34 | 0 18 | 18 48 | 4 41 | 11 50 | 11 19 | 14 55 | 4 57 | 5 17 |
| T 26 | 21 3 | 28 3 | 4 42 | 22 38 | 0 6 | 25 1 | 2 0 | 4 29 | 1 16 | 22 42 | 0 1 | 16 18 | 1 23 | 11 21 | 0 46 | 20 33 | 0 18 | 18 48 | 4 41 | 11 48 | 11 18 | 14 52 | 4 57 | 5 17 |
| W27 | 21 14 | 27 0 | 5 6 | 22 10 | 0n14 | 24 56 | 2 2 | 4 44 | 1 15 | 22 43 | 0 1 | 16 17 | 1 23 | 11 21 | 0 46 | 20 33 | 0 18 | 18 48 | 4 41 | 11 46 | 11 17 | 14 49 | 4 57 | 5 17 |
| T 28 | 21 25 | 24 13 | 5 10 | 21 40 | 0 34 | 24 50 | 2 2 | 4 58 | 1 15 | 22 43 | 0 1 | 16 16 | 1 23 | 11 20 | 0 46 | 20 33 | 0 18 | 18 48 | 4 41 | 11 45 | 11 16 | 14 46 | 4 57 | 5 16 |
| F 29 | 21 35 | 19 57 | 4 56 | 21 9 | 0 54 | 24 43 | 2 3 | 5 12 | 1 15 | 22 44 | 0 1 | 16 15 | 1 23 | 11 20 | 0 46 | 20 33 | 0 18 | 18 48 | 4 41 | 11 44 | 11 15 | 14 43 | 4 57 | 5 16 |
| S 30 | 21s45 | 14s35 | 4s23 | 20s37 | 1n14 | 24s35 | 2s 4 | 5s26 | 1n15 | 22n45 | 0n 1 | 16s14 | 1s23 | 11s20 | 0s46 | 20s32 | 0n18 | 18n48 | 4s41 | 11n43 | 11n14 | 14n40 | 4s57 | 5n15 |

Julian Day Number = 2330954.5, Delta T = 29.85 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'54, Lahiri = 19°14'55Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1669
# geocentric

## DECEMBER 1669 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 41 18 | 9♐25'55 | 16♓58 | 7°R35 | 17♑ 9 | 17♎22 | 14°R 8 | 19♒49 | 2♓29 | 26♑50 | 1°R17 | 0♉39 | 29♈12 | 2♍29 | 4♓35 | S 1 |
| M 2 | 4 45 14 | 10°26'52 | 1♈ 0 | 6♐15 | 18°21 | 17°59 | 14♋ 3 | 19°53 | 2°30 | 26°51 | 1♋16 | 0°40 | 29° 9 | 2°36 | 4°36 | M 2 |
| T 3 | 4 49 11 | 11°27'49 | 14°57 | 4°59 | 19°34 | 18°35 | 13°57 | 19°57 | 2°31 | 26°53 | 1°14 | 0°41 | 29° 5 | 2°42 | 4°37 | T 3 |
| W 4 | 4 53 7 | 12°28'47 | 28°45 | 3°51 | 20°47 | 19°12 | 13°51 | 20° 1 | 2°32 | 26°55 | 1°13 | 0°R42 | 29° 2 | 2°49 | 4°38 | W 4 |
| T 5 | 4 57 4 | 13°29'46 | 12♉26 | 2°51 | 21°59 | 19°49 | 13°45 | 20° 5 | 2°34 | 26°57 | 1°12 | 0°41 | 28°59 | 2°56 | 4°40 | T 5 |
| F 6 | 5 1 0 | 14°30'45 | 25°56 | 2° 2 | 23°12 | 20°25 | 13°39 | 20° 9 | 2°35 | 26°58 | 1°11 | 0°39 | 28°56 | 3° 2 | 4°41 | F 6 |
| S 7 | 5 4 57 | 15°31'46 | 9♊14 | 1°24 | 24°24 | 21° 2 | 13°33 | 20°14 | 2°36 | 27° 0 | 1°10 | 0°34 | 28°53 | 3° 9 | 4°42 | S 7 |
| S 8 | 5 8 54 | 16°32'47 | 22°20 | 0°57 | 25°37 | 21°38 | 13°26 | 20°18 | 2°37 | 27° 2 | 1° 9 | 0°27 | 28°50 | 3°16 | 4°44 | S 8 |
| M 9 | 5 12 50 | 17°33'49 | 5♋11 | 0°41 | 26°49 | 22°15 | 13°20 | 20°23 | 2°39 | 27° 4 | 1° 8 | 0°18 | 28°46 | 3°22 | 4°45 | M 9 |
| T 10 | 5 16 47 | 18°34'51 | 17°46 | 0°D36 | 28° 1 | 22°52 | 13°13 | 20°27 | 2°40 | 27° 6 | 1° 6 | 0° 9 | 28°43 | 3°29 | 4°46 | T 10 |
| W11 | 5 20 43 | 19°35'55 | 0♌ 8 | 0°41 | 29°13 | 23°28 | 13° 6 | 20°32 | 2°42 | 27° 8 | 1° 5 | 29♈59 | 28°40 | 3°36 | 4°48 | W11 |
| T 12 | 5 24 40 | 20°36'59 | 12°16 | 0°55 | 0♒25 | 24° 5 | 12°59 | 20°37 | 2°43 | 27°10 | 1° 4 | 29°52 | 28°37 | 3°43 | 4°50 | T 12 |
| F 13 | 5 28 36 | 21°38'04 | 24°14 | 1°18 | 1°37 | 24°41 | 12°52 | 20°41 | 2°45 | 27°12 | 1° 3 | 29°46 | 28°34 | 3°49 | 4°51 | F 13 |
| S 14 | 5 32 33 | 22°39'10 | 6♍ 6 | 1°48 | 2°49 | 25°17 | 12°45 | 20°46 | 2°46 | 27°13 | 1° 2 | 29°42 | 28°31 | 3°56 | 4°53 | S 14 |
| S 15 | 5 36 29 | 23°40'17 | 17°56 | 2°26 | 4° 1 | 25°54 | 12°38 | 20°51 | 2°48 | 27°15 | 1° 0 | 29°40 | 28°27 | 4° 3 | 4°55 | S 15 |
| M16 | 5 40 26 | 24°41'24 | 29°49 | 3° 9 | 5°13 | 26°30 | 12°30 | 20°56 | 2°50 | 27°17 | 0°59 | 29°D40 | 28°24 | 4° 9 | 4°56 | M16 |
| T 17 | 5 44 23 | 25°42'32 | 11♎51 | 3°58 | 6°25 | 27° 7 | 12°23 | 21° 1 | 2°52 | 27°19 | 0°58 | 29°41 | 28°21 | 4°16 | 4°58 | T 17 |
| W18 | 5 48 19 | 26°43'41 | 24° 6 | 4°51 | 7°37 | 27°43 | 12°15 | 21° 6 | 2°53 | 27°21 | 0°57 | 29°R42 | 28°18 | 4°23 | 5° 0 | W18 |
| T 19 | 5 52 16 | 27°44'51 | 6♏39 | 5°49 | 8°48 | 28°19 | 12° 8 | 21°12 | 2°55 | 27°23 | 0°56 | 29°41 | 28°15 | 4°29 | 5° 2 | T 19 |
| F 20 | 5 56 12 | 28°46'01 | 19°36 | 6°50 | 10° 0 | 28°56 | 12° 0 | 21°17 | 2°57 | 27°25 | 0°54 | 29°39 | 28°11 | 4°36 | 5° 4 | F 20 |
| S 21 | 6 0 9 | 29°47'11 | 2♐56 | 7°55 | 11°11 | 29°32 | 11°52 | 21°22 | 2°59 | 27°28 | 0°53 | 29°35 | 28° 8 | 4°43 | 5° 6 | S 21 |
| S 22 | 6 4 5 | 0♑48'23 | 16°42 | 9° 3 | 12°22 | 0♏ 8 | 11°45 | 21°28 | 3° 1 | 27°30 | 0°52 | 29°28 | 28° 5 | 4°50 | 5° 8 | S 22 |
| M23 | 6 8 2 | 1°49'34 | 0♑51 | 10°13 | 13°34 | 0°44 | 11°37 | 21°33 | 3° 3 | 27°32 | 0°51 | 29°19 | 28° 2 | 4°56 | 5°11 | M23 |
| T 24 | 6 11 58 | 2°50'46 | 15°17 | 11°26 | 14°45 | 1°20 | 11°29 | 21°39 | 3° 5 | 27°34 | 0°49 | 29° 8 | 27°59 | 5° 3 | 5°13 | T 24 |
| W25 | 6 15 55 | 3°51'58 | 29°54 | 12°40 | 15°56 | 1°56 | 11°21 | 21°44 | 3° 7 | 27°36 | 0°48 | 28°58 | 27°56 | 5°10 | 5°15 | W25 |
| T 26 | 6 19 52 | 4°53'10 | 14♒35 | 13°56 | 17° 7 | 2°32 | 11°13 | 21°50 | 3° 9 | 27°38 | 0°47 | 28°48 | 27°52 | 5°16 | 5°17 | T 26 |
| F 27 | 6 23 48 | 5°54'21 | 29°11 | 15°14 | 18°18 | 3° 8 | 11° 5 | 21°56 | 3°12 | 27°40 | 0°46 | 28°41 | 27°49 | 5°23 | 5°20 | F 27 |
| S 28 | 6 27 45 | 6°55'33 | 13♓38 | 16°33 | 19°29 | 3°44 | 10°57 | 22° 2 | 3°14 | 27°42 | 0°45 | 28°36 | 27°46 | 5°30 | 5°22 | S 28 |
| S 29 | 6 31 41 | 7°56'44 | 27°52 | 17°54 | 20°39 | 4°20 | 10°49 | 22° 7 | 3°16 | 27°45 | 0°43 | 28°34 | 27°43 | 5°36 | 5°25 | S 29 |
| M30 | 6 35 38 | 8°57'54 | 11♈50 | 19°16 | 21°50 | 4°56 | 10°40 | 22°13 | 3°18 | 27°47 | 0°42 | 28°D34 | 27°40 | 5°43 | 5°27 | M30 |
| T 31 | 6 39 34 | 9♑59'05 | 25♈34 | 20♐38 | 23♒ 0 | 5♏32 | 10♋32 | 22♒19 | 3♓21 | 27♑49 | 0♋41 | 28°R34 | 27♈37 | 5♍50 | 5♓30 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s54 | 8s27 | 3s35 | 20s 5 | 1n33 | 24s27 | 2s 5 | 5s40 | 1n15 | 22n45 | 0n 1 | 16s12 | 1s23 | 11s19 | 0s46 | 20s32 | 0n18 | 18n48 | 4s41 | 11n43 | 11n13 | 14n37 | 4s57 | 5n15 |
| M 2 | 22 3 | 1 57 | 2 34 | 19 35 | 1 50 | 24 18 | 2 5 | 5 54 | 1 15 | 22 46 | 0 2 | 16 11 | 1 23 | 11 19 | 0 46 | 20 32 | 0 18 | 18 48 | 4 41 | 11 44 | 11 11 | 14 34 | 4 57 | 5 15 |
| T 3 | 22 12 | 4n36 | 1 24 | 19 7 | 2 5 | 24 8 | 2 6 | 6 9 | 1 15 | 22 47 | 0 2 | 16 10 | 1 22 | 11 18 | 0 46 | 20 31 | 0 18 | 18 48 | 4 41 | 11 44 | 11 10 | 14 32 | 4 57 | 5 14 |
| W 4 | 22 20 | 10 53 | 0 11 | 18 42 | 2 18 | 23 57 | 2 6 | 6 23 | 1 15 | 22 48 | 0 2 | 16 8 | 1 22 | 11 18 | 0 46 | 20 31 | 0 18 | 18 48 | 4 41 | 11 44 | 11 9 | 14 29 | 4 57 | 5 14 |
| T 5 | 22 28 | 16 36 | 1n 3 | 18 20 | 2 29 | 23 46 | 2 7 | 6 36 | 1 15 | 22 48 | 0 2 | 16 7 | 1 22 | 11 17 | 0 46 | 20 31 | 0 18 | 18 48 | 4 41 | 11 44 | 11 8 | 14 26 | 4 57 | 5 14 |
| F 6 | 22 35 | 21 25 | 2 12 | 18 2 | 2 38 | 23 34 | 2 7 | 6 50 | 1 15 | 22 49 | 0 2 | 16 6 | 1 22 | 11 17 | 0 46 | 20 30 | 0 18 | 18 48 | 4 41 | 11 43 | 11 7 | 14 23 | 4 57 | 5 13 |
| S 7 | 22 42 | 25 3 | 3 13 | 17 48 | 2 44 | 23 22 | 2 7 | 7 4 | 1 15 | 22 50 | 0 2 | 16 4 | 1 22 | 11 16 | 0 46 | 20 30 | 0 18 | 18 48 | 4 41 | 11 41 | 11 6 | 14 20 | 4 57 | 5 13 |
| S 8 | 22 48 | 27 17 | 4 2 | 17 39 | 2 48 | 23 9 | 2 7 | 7 18 | 1 14 | 22 51 | 0 2 | 16 3 | 1 22 | 11 16 | 0 45 | 20 30 | 0 18 | 18 48 | 4 41 | 11 39 | 11 5 | 14 17 | 4 57 | 5 13 |
| M 9 | 22 54 | 28 1 | 4 38 | 17 33 | 2 50 | 22 55 | 2 7 | 7 32 | 1 14 | 22 51 | 0 3 | 16 1 | 1 22 | 11 15 | 0 45 | 20 29 | 0 18 | 18 48 | 4 41 | 11 36 | 11 4 | 14 14 | 4 56 | 5 12 |
| T 10 | 23 0 | 27 15 | 5 0 | 17 32 | 2 51 | 22 40 | 2 7 | 7 45 | 1 14 | 22 52 | 0 3 | 16 0 | 1 22 | 11 15 | 0 45 | 20 29 | 0 18 | 18 48 | 4 41 | 11 33 | 11 2 | 14 11 | 4 56 | 5 12 |
| W11 | 23 5 | 25 9 | 5 7 | 17 34 | 2 50 | 22 25 | 2 7 | 7 59 | 1 14 | 22 53 | 0 3 | 15 58 | 1 22 | 11 14 | 0 45 | 20 29 | 0 18 | 18 48 | 4 41 | 11 29 | 11 1 | 14 8 | 4 56 | 5 12 |
| T 12 | 23 9 | 21 56 | 4 59 | 17 39 | 2 48 | 22 10 | 2 7 | 8 13 | 1 14 | 22 54 | 0 3 | 15 57 | 1 22 | 11 14 | 0 45 | 20 28 | 0 18 | 18 48 | 4 41 | 11 27 | 11 0 | 14 5 | 4 56 | 5 11 |
| F 13 | 23 13 | 17 51 | 4 39 | 17 47 | 2 44 | 21 53 | 2 6 | 8 26 | 1 14 | 22 55 | 0 3 | 15 55 | 1 22 | 11 13 | 0 45 | 20 28 | 0 18 | 18 48 | 4 41 | 11 25 | 10 59 | 14 2 | 4 55 | 5 11 |
| S 14 | 23 17 | 13 7 | 4 7 | 17 57 | 2 40 | 21 36 | 2 6 | 8 40 | 1 14 | 22 56 | 0 3 | 15 53 | 1 22 | 11 12 | 0 45 | 20 28 | 0 18 | 18 48 | 4 41 | 11 23 | 10 58 | 13 59 | 4 55 | 5 10 |
| S 15 | 23 20 | 7 55 | 3 25 | 18 10 | 2 35 | 21 19 | 2 5 | 8 53 | 1 14 | 22 56 | 0 3 | 15 52 | 1 22 | 11 12 | 0 45 | 20 27 | 0 18 | 18 48 | 4 41 | 11 22 | 10 57 | 13 56 | 4 55 | 5 10 |
| M16 | 23 23 | 2 25 | 2 33 | 18 24 | 2 29 | 21 1 | 2 4 | 9 6 | 1 13 | 22 57 | 0 4 | 15 50 | 1 22 | 11 11 | 0 45 | 20 27 | 0 18 | 18 48 | 4 41 | 11 22 | 10 56 | 13 54 | 4 54 | 5 10 |
| T 17 | 23 25 | 3s15 | 1 34 | 18 39 | 2 22 | 20 42 | 2 4 | 9 19 | 1 13 | 22 58 | 0 4 | 15 48 | 1 22 | 11 11 | 0 45 | 20 26 | 0 18 | 18 48 | 4 41 | 11 23 | 10 54 | 13 51 | 4 54 | 5 9 |
| W18 | 23 27 | 8 54 | 0 30 | 18 56 | 2 15 | 20 23 | 2 3 | 9 33 | 1 13 | 22 59 | 0 4 | 15 47 | 1 22 | 11 10 | 0 45 | 20 26 | 0 18 | 18 48 | 4 40 | 11 23 | 10 53 | 13 48 | 4 54 | 5 9 |
| T 19 | 23 28 | 14 21 | 0s37 | 19 13 | 2 8 | 20 3 | 2 2 | 9 46 | 1 13 | 23 0 | 0 4 | 15 45 | 1 22 | 11 9 | 0 45 | 20 26 | 0 18 | 18 48 | 4 40 | 11 23 | 10 52 | 13 45 | 4 53 | 5 9 |
| F 20 | 23 29 | 19 20 | 1 44 | 19 31 | 2 0 | 19 43 | 2 0 | 9 59 | 1 13 | 23 1 | 0 4 | 15 43 | 1 22 | 11 8 | 0 45 | 20 25 | 0 18 | 18 48 | 4 40 | 11 22 | 10 51 | 13 42 | 4 53 | 5 8 |
| S 21 | 23 29 | 23 32 | 2 48 | 19 49 | 1 52 | 19 22 | 1 59 | 10 12 | 1 13 | 23 1 | 0 4 | 15 41 | 1 22 | 11 8 | 0 45 | 20 25 | 0 18 | 18 49 | 4 40 | 11 21 | 10 50 | 13 39 | 4 52 | 5 8 |
| S 22 | 23 29 | 26 31 | 3 43 | 20 8 | 1 44 | 19 0 | 1 58 | 10 25 | 1 12 | 23 2 | 0 4 | 15 40 | 1 21 | 11 7 | 0 45 | 20 25 | 0 18 | 18 49 | 4 40 | 11 18 | 10 49 | 13 36 | 4 52 | 5 8 |
| M23 | 23 28 | 27 56 | 4 27 | 20 26 | 1 36 | 18 39 | 1 56 | 10 37 | 1 12 | 23 3 | 0 5 | 15 38 | 1 21 | 11 6 | 0 45 | 20 24 | 0 18 | 18 49 | 4 40 | 11 15 | 10 48 | 13 33 | 4 52 | 5 8 |
| T 24 | 23 27 | 27 28 | 4 54 | 20 44 | 1 28 | 18 16 | 1 55 | 10 50 | 1 12 | 23 4 | 0 5 | 15 36 | 1 21 | 11 5 | 0 45 | 20 24 | 0 18 | 18 49 | 4 40 | 11 11 | 10 47 | 13 30 | 4 51 | 5 7 |
| W25 | 23 26 | 25 8 | 5 3 | 21 3 | 1 20 | 17 53 | 1 53 | 11 3 | 1 12 | 23 5 | 0 5 | 15 34 | 1 21 | 11 5 | 0 45 | 20 23 | 0 18 | 18 49 | 4 40 | 11 7 | 10 45 | 13 27 | 4 50 | 5 7 |
| T 26 | 23 24 | 21 8 | 4 51 | 21 20 | 1 11 | 17 30 | 1 51 | 11 15 | 1 12 | 23 6 | 0 5 | 15 32 | 1 21 | 11 4 | 0 45 | 20 23 | 0 18 | 18 49 | 4 40 | 11 4 | 10 44 | 13 24 | 4 50 | 5 7 |
| F 27 | 23 21 | 15 51 | 4 21 | 21 37 | 1 3 | 17 7 | 1 50 | 11 28 | 1 11 | 23 6 | 0 5 | 15 30 | 1 21 | 11 3 | 0 45 | 20 23 | 0 18 | 18 49 | 4 40 | 11 2 | 10 43 | 13 21 | 4 49 | 5 6 |
| S 28 | 23 18 | 9 45 | 3 35 | 21 54 | 0 55 | 16 42 | 1 48 | 11 40 | 1 11 | 23 7 | 0 5 | 15 28 | 1 21 | 11 2 | 0 45 | 20 22 | 0 18 | 18 49 | 4 40 | 11 0 | 10 42 | 13 18 | 4 49 | 5 6 |
| S 29 | 23 15 | 3 14 | 2 35 | 22 10 | 0 46 | 16 18 | 1 45 | 11 53 | 1 11 | 23 8 | 0 5 | 15 27 | 1 21 | 11 1 | 0 45 | 20 22 | 0 18 | 18 49 | 4 40 | 10 59 | 10 41 | 13 15 | 4 48 | 5 6 |
| M30 | 23 11 | 3n21 | 1 28 | 22 25 | 0 38 | 15 53 | 1 43 | 12 5 | 1 11 | 23 9 | 0 6 | 15 25 | 1 21 | 11 0 | 0 45 | 20 21 | 0 18 | 18 49 | 4 40 | 10 59 | 10 40 | 13 12 | 4 48 | 5 5 |
| T 31 | 23s 6 | 9n40 | 0s16 | 22s39 | 0n30 | 15s28 | 1s41 | 12s17 | 1n11 | 23n10 | 0n 6 | 15s23 | 1s21 | 11s 0 | 0s45 | 20s21 | 0n18 | 18n49 | 4s40 | 10n59 | 10n39 | 13n 9 | 4s47 | 5n 5 |

Julian Day Number = 2330984.5, Delta T = 29.80 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°07'58, Lahiri = 19°14'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## JANUARY 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 43 31 | 11♉ 0'14 | 9♉ 5 | 22♐ 2 | 24♒10 | 6♏ 8 | 10°R24 | 22♒25 | 3♓23 | 27♉51 | 0°R40 | 28°R34 | 27♈33 | 5♍56 | 5♓32 | W 1 |
| T 2 | 6 47 27 | 12° 1'24 | 22°22 | 23°26 | 25°21 | 6°44 | 10♋16 | 22°31 | 3°25 | 27°53 | 0♋39 | 28♈31 | 27°30 | 6° 3 | 5°35 | T 2 |
| F 3 | 6 51 24 | 13° 2'33 | 5♊28 | 24°52 | 26°31 | 7°19 | 10° 8 | 22°37 | 3°28 | 27°55 | 0°37 | 28°26 | 27°27 | 6°10 | 5°38 | F 3 |
| S 4 | 6 55 21 | 14° 3'42 | 18°24 | 26°18 | 27°40 | 7°55 | 10° 0 | 22°44 | 3°30 | 27°58 | 0°36 | 28°18 | 27°24 | 6°17 | 5°40 | S 4 |
| S 5 | 6 59 17 | 15° 4'51 | 1♋ 9 | 27°44 | 28°50 | 8°31 | 9°52 | 22°50 | 3°33 | 28° 0 | 0°35 | 28° 7 | 27°21 | 6°23 | 5°43 | S 5 |
| M 6 | 7 3 14 | 16° 5'59 | 13°43 | 29°12 | 29°59 | 9° 6 | 9°44 | 22°56 | 3°36 | 28° 2 | 0°34 | 27°54 | 27°17 | 6°30 | 5°46 | M 6 |
| T 7 | 7 7 10 | 17° 7'06 | 26° 7 | 0♉40 | 1♓ 9 | 9°42 | 9°36 | 23° 2 | 3°38 | 28° 4 | 0°33 | 27°40 | 27°14 | 6°37 | 5°49 | T 7 |
| W 8 | 7 11 7 | 18° 8'14 | 8♌20 | 2° 9 | 2°18 | 10°17 | 9°28 | 23° 9 | 3°41 | 28° 7 | 0°32 | 27°26 | 27°11 | 6°43 | 5°52 | W 8 |
| T 9 | 7 15 3 | 19° 9'21 | 20°24 | 3°38 | 3°28 | 10°53 | 9°20 | 23°15 | 3°43 | 28° 9 | 0°30 | 27°13 | 27° 8 | 6°50 | 5°54 | T 9 |
| F 10 | 7 19 0 | 20°10'28 | 2♍19 | 5° 8 | 4°37 | 11°28 | 9°12 | 23°22 | 3°46 | 28°11 | 0°29 | 27° 2 | 27° 5 | 6°57 | 5°57 | F 10 |
| S 11 | 7 22 57 | 21°11'34 | 14° 9 | 6°38 | 5°45 | 12° 4 | 9° 4 | 23°28 | 3°49 | 28°13 | 0°28 | 26°54 | 27° 2 | 7° 3 | 6° 0 | S 11 |
| S 12 | 7 26 53 | 22°12'40 | 25°57 | 8° 9 | 6°54 | 12°39 | 8°57 | 23°35 | 3°52 | 28°16 | 0°27 | 26°50 | 26°58 | 7°10 | 6° 3 | S 12 |
| M13 | 7 30 50 | 23°13'45 | 7♎48 | 9°41 | 8° 2 | 13°14 | 8°49 | 23°41 | 3°54 | 28°18 | 0°26 | 26°47 | 26°55 | 7°17 | 6° 7 | M13 |
| T 14 | 7 34 46 | 24°14'51 | 19°47 | 11°13 | 9°11 | 13°49 | 8°41 | 23°48 | 3°57 | 28°20 | 0°25 | 26°47 | 26°52 | 7°23 | 6°10 | T 14 |
| W15 | 7 38 43 | 25°15'56 | 1♏58 | 12°45 | 10°19 | 14°25 | 8°34 | 23°55 | 4° 0 | 28°23 | 0°24 | 26°47 | 26°49 | 7°30 | 6°13 | W15 |
| T 16 | 7 42 39 | 26°17'00 | 14°28 | 14°19 | 11°27 | 15° 0 | 8°27 | 24° 1 | 4° 3 | 28°25 | 0°23 | 26°46 | 26°46 | 7°37 | 6°16 | T 16 |
| F 17 | 7 46 36 | 27°18'05 | 27°22 | 15°53 | 12°34 | 15°35 | 8°19 | 24° 8 | 4° 6 | 28°27 | 0°22 | 26°43 | 26°43 | 7°44 | 6°19 | F 17 |
| S 18 | 7 50 32 | 28°19'09 | 10♐43 | 17°27 | 13°42 | 16°10 | 8°12 | 24°15 | 4° 9 | 28°29 | 0°20 | 26°39 | 26°39 | 7°50 | 6°22 | S 18 |
| S 19 | 7 54 29 | 29°20'12 | 24°33 | 19° 2 | 14°49 | 16°45 | 8° 5 | 24°22 | 4°12 | 28°32 | 0°19 | 26°31 | 26°36 | 7°57 | 6°26 | S 19 |
| M20 | 7 58 26 | 0♒21'15 | 8♉52 | 20°38 | 15°56 | 17°20 | 7°58 | 24°28 | 4°15 | 28°34 | 0°18 | 26°21 | 26°33 | 8° 4 | 6°29 | M20 |
| T 21 | 8 2 22 | 1°22'17 | 23°35 | 22°14 | 17° 3 | 17°55 | 7°51 | 24°35 | 4°18 | 28°36 | 0°17 | 26° 9 | 26°30 | 8°10 | 6°32 | T 21 |
| W22 | 8 6 19 | 2°23'18 | 8♒34 | 23°51 | 18° 9 | 18°29 | 7°44 | 24°42 | 4°21 | 28°38 | 0°16 | 25°57 | 26°27 | 8°17 | 6°36 | W22 |
| T 23 | 8 10 15 | 3°24'18 | 23°39 | 25°28 | 19°16 | 19° 4 | 7°38 | 24°49 | 4°24 | 28°41 | 0°15 | 25°46 | 26°23 | 8°24 | 6°39 | T 23 |
| F 24 | 8 14 12 | 4°25'17 | 8♓41 | 27° 6 | 20°22 | 19°39 | 7°31 | 24°56 | 4°27 | 28°43 | 0°14 | 25°37 | 26°20 | 8°30 | 6°42 | F 24 |
| S 25 | 8 18 8 | 5°26'14 | 23°31 | 28°45 | 21°28 | 20°13 | 7°25 | 25° 3 | 4°30 | 28°45 | 0°13 | 25°31 | 26°17 | 8°37 | 6°46 | S 25 |
| S 26 | 8 22 5 | 6°27'11 | 8♈ 2 | 0♒25 | 22°33 | 20°48 | 7°18 | 25°10 | 4°33 | 28°48 | 0°12 | 25°28 | 26°14 | 8°44 | 6°49 | S 26 |
| M27 | 8 26 1 | 7°28'06 | 22°11 | 2° 5 | 23°39 | 21°22 | 7°12 | 25°17 | 4°36 | 28°50 | 0°11 | 25°D27 | 26°11 | 8°50 | 6°53 | M27 |
| T 28 | 8 29 58 | 8°29'00 | 5♉57 | 3°46 | 24°44 | 21°57 | 7° 6 | 25°24 | 4°39 | 28°52 | 0°11 | 25°R27 | 26° 8 | 8°57 | 6°56 | T 28 |
| W29 | 8 33 55 | 9°29'52 | 19°23 | 5°27 | 25°49 | 22°31 | 7° 0 | 25°31 | 4°43 | 28°54 | 0°10 | 25°27 | 26° 4 | 9° 4 | 7° 0 | W29 |
| T 30 | 8 37 51 | 10°30'43 | 2♊31 | 7°10 | 26°53 | 23° 5 | 6°55 | 25°38 | 4°46 | 28°57 | 0° 9 | 25°25 | 26° 1 | 9°11 | 7° 4 | T 30 |
| F 31 | 8 41 48 | 11♒31'33 | 15♊22 | 8♒53 | 27♓57 | 23♏39 | 6♋49 | 25♒45 | 4♓49 | 28♉59 | 0♋ 8 | 25♈21 | 25♈58 | 9♍17 | 7♓ 7 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | decl | lat |
| W 1 | 23s 2 | 15n25 | 0n55 | 22s53 | 0n22 | 15s 2 | 1s38 | 12s29 | 1n10 | 23n10 | 0n 6 | 15s21 | 1s21 | 10s59 | 0s45 | 20s20 | 0n18 | 18n49 | 4s40 | 10n59 | 10n37 | 13n 6 | 4s46 | 5n 5 |
| T 2 | 22 56 | 20 22 | 2 3 | 23 5 | 0 14 | 14 36 | 1 36 | 12 41 | 1 10 | 23 11 | 0 6 | 15 19 | 1 21 | 10 58 | 0 45 | 20 20 | 0 18 | 18 49 | 4 40 | 10 58 | 10 36 | 13 3 | 4 46 | 5 4 |
| F 3 | 22 51 | 24 14 | 3 2 | 23 17 | 0 6 | 14 10 | 1 33 | 12 53 | 1 10 | 23 12 | 0 6 | 15 17 | 1 21 | 10 57 | 0 45 | 20 20 | 0 18 | 18 49 | 4 39 | 10 56 | 10 35 | 13 0 | 4 45 | 5 4 |
| S 4 | 22 44 | 26 49 | 3 51 | 23 27 | 0s 1 | 13 43 | 1 31 | 13 5 | 1 10 | 23 13 | 0 6 | 15 15 | 1 21 | 10 56 | 0 45 | 20 19 | 0 18 | 18 50 | 4 39 | 10 53 | 10 34 | 12 57 | 4 44 | 5 4 |
| S 5 | 22 38 | 27 57 | 4 28 | 23 37 | 0 9 | 13 16 | 1 28 | 13 16 | 1 9 | 23 13 | 0 6 | 15 12 | 1 21 | 10 55 | 0 45 | 20 19 | 0 18 | 18 50 | 4 39 | 10 50 | 10 33 | 12 54 | 4 43 | 5 4 |
| M 6 | 22 31 | 27 36 | 4 51 | 23 45 | 0 16 | 12 49 | 1 25 | 13 28 | 1 9 | 23 14 | 0 7 | 15 10 | 1 21 | 10 54 | 0 45 | 20 18 | 0 18 | 18 50 | 4 39 | 10 45 | 10 32 | 12 51 | 4 43 | 5 3 |
| T 7 | 22 23 | 25 52 | 5 0 | 23 52 | 0 23 | 12 21 | 1 22 | 13 40 | 1 9 | 23 15 | 0 7 | 15 8 | 1 21 | 10 53 | 0 45 | 20 18 | 0 18 | 18 50 | 4 39 | 10 40 | 10 31 | 12 48 | 4 42 | 5 3 |
| W 8 | 22 15 | 22 57 | 4 54 | 23 58 | 0 30 | 11 53 | 1 18 | 13 51 | 1 8 | 23 16 | 0 7 | 15 6 | 1 21 | 10 52 | 0 44 | 20 17 | 0 18 | 18 50 | 4 39 | 10 35 | 10 29 | 12 45 | 4 41 | 5 3 |
| T 9 | 22 7 | 19 5 | 4 36 | 24 3 | 0 37 | 11 25 | 1 15 | 14 2 | 1 8 | 23 16 | 0 7 | 15 4 | 1 21 | 10 51 | 0 44 | 20 17 | 0 18 | 18 50 | 4 39 | 10 30 | 10 28 | 12 42 | 4 40 | 5 3 |
| F 10 | 21 58 | 14 29 | 4 6 | 24 7 | 0 44 | 10 57 | 1 12 | 14 14 | 1 8 | 23 17 | 0 7 | 15 2 | 1 21 | 10 50 | 0 44 | 20 17 | 0 18 | 18 50 | 4 39 | 10 26 | 10 27 | 12 39 | 4 39 | 5 2 |
| S 11 | 21 49 | 9 24 | 3 25 | 24 9 | 0 50 | 10 28 | 1 8 | 14 25 | 1 8 | 23 18 | 0 7 | 15 0 | 1 21 | 10 49 | 0 44 | 20 16 | 0 18 | 18 50 | 4 39 | 10 23 | 10 26 | 12 36 | 4 39 | 5 2 |
| S 12 | 21 39 | 3 59 | 2 35 | 24 10 | 0 56 | 10 0 | 1 5 | 14 36 | 1 7 | 23 18 | 0 7 | 14 58 | 1 21 | 10 48 | 0 44 | 20 16 | 0 18 | 18 50 | 4 39 | 10 22 | 10 25 | 12 33 | 4 38 | 5 2 |
| M13 | 21 29 | 1s36 | 1 39 | 24 10 | 1 2 | 9 31 | 1 1 | 14 47 | 1 7 | 23 19 | 0 8 | 14 55 | 1 21 | 10 47 | 0 44 | 20 15 | 0 18 | 18 50 | 4 39 | 10 21 | 10 24 | 12 30 | 4 37 | 5 1 |
| T 14 | 21 18 | 7 11 | 0 37 | 24 9 | 1 8 | 9 1 | 0 57 | 14 58 | 1 7 | 23 20 | 0 8 | 14 53 | 1 21 | 10 46 | 0 44 | 20 15 | 0 18 | 18 50 | 4 39 | 10 21 | 10 23 | 12 27 | 4 36 | 5 1 |
| W15 | 21 7 | 12 37 | 0s27 | 24 6 | 1 14 | 8 32 | 0 53 | 15 8 | 1 6 | 23 20 | 0 8 | 14 51 | 1 21 | 10 45 | 0 44 | 20 14 | 0 18 | 18 51 | 4 38 | 10 21 | 10 21 | 12 24 | 4 35 | 5 1 |
| T 16 | 20 56 | 17 41 | 1 32 | 24 2 | 1 19 | 8 2 | 0 49 | 15 19 | 1 6 | 23 21 | 0 8 | 14 49 | 1 21 | 10 44 | 0 44 | 20 14 | 0 18 | 18 51 | 4 38 | 10 20 | 10 20 | 12 20 | 4 34 | 5 1 |
| F 17 | 20 44 | 22 6 | 2 34 | 23 56 | 1 24 | 7 33 | 0 45 | 15 29 | 1 6 | 23 21 | 0 8 | 14 46 | 1 21 | 10 43 | 0 44 | 20 13 | 0 18 | 18 51 | 4 38 | 10 19 | 10 19 | 12 17 | 4 33 | 5 1 |
| S 18 | 20 32 | 25 33 | 3 30 | 23 49 | 1 29 | 7 3 | 0 41 | 15 40 | 1 5 | 23 22 | 0 8 | 14 44 | 1 21 | 10 42 | 0 44 | 20 13 | 0 18 | 18 51 | 4 38 | 10 18 | 10 18 | 12 14 | 4 32 | 5 0 |
| S 19 | 20 20 | 27 37 | 4 15 | 23 41 | 1 34 | 6 33 | 0 36 | 15 50 | 1 5 | 23 23 | 0 8 | 14 42 | 1 21 | 10 41 | 0 44 | 20 13 | 0 18 | 18 51 | 4 38 | 10 15 | 10 17 | 12 11 | 4 31 | 5 0 |
| M20 | 20 7 | 27 57 | 4 46 | 23 31 | 1 38 | 6 3 | 0 32 | 16 0 | 1 5 | 23 23 | 0 8 | 14 40 | 1 21 | 10 39 | 0 44 | 20 12 | 0 18 | 18 51 | 4 38 | 10 11 | 10 16 | 12 8 | 4 30 | 5 0 |
| T 21 | 19 54 | 26 20 | 5 0 | 23 19 | 1 42 | 5 33 | 0 27 | 16 10 | 1 4 | 23 24 | 0 9 | 14 37 | 1 21 | 10 38 | 0 44 | 20 12 | 0 18 | 18 51 | 4 38 | 10 7 | 10 14 | 12 5 | 4 29 | 5 0 |
| W22 | 19 40 | 22 52 | 4 53 | 23 7 | 1 46 | 5 2 | 0 23 | 16 20 | 1 4 | 23 24 | 0 9 | 14 35 | 1 21 | 10 37 | 0 44 | 20 11 | 0 17 | 18 51 | 4 38 | 10 2 | 10 13 | 12 2 | 4 28 | 4 59 |
| T 23 | 19 26 | 17 50 | 4 26 | 22 53 | 1 49 | 4 32 | 0 18 | 16 30 | 1 3 | 23 25 | 0 9 | 14 33 | 1 21 | 10 36 | 0 44 | 20 11 | 0 17 | 18 51 | 4 38 | 9 58 | 10 12 | 11 59 | 4 27 | 4 59 |
| F 24 | 19 11 | 11 44 | 3 40 | 22 37 | 1 52 | 4 1 | 0 13 | 16 40 | 1 3 | 23 25 | 0 9 | 14 30 | 1 21 | 10 35 | 0 44 | 20 10 | 0 17 | 18 52 | 4 37 | 9 55 | 10 11 | 11 56 | 4 26 | 4 59 |
| S 25 | 18 57 | 5 2 | 2 40 | 22 20 | 1 55 | 3 31 | 0 8 | 16 50 | 1 3 | 23 26 | 0 9 | 14 28 | 1 21 | 10 34 | 0 44 | 20 10 | 0 17 | 18 52 | 4 37 | 9 53 | 10 10 | 11 53 | 4 25 | 4 59 |
| S 26 | 18 42 | 1n48 | 1 31 | 22 1 | 1 58 | 3 0 | 0 3 | 16 59 | 1 2 | 23 26 | 0 9 | 14 26 | 1 21 | 10 33 | 0 44 | 20 9 | 0 17 | 18 52 | 4 37 | 9 52 | 10 9 | 11 50 | 4 24 | 4 59 |
| M27 | 18 26 | 8 23 | 0 17 | 21 41 | 2 0 | 2 30 | 0n 2 | 17 9 | 1 2 | 23 27 | 0 9 | 14 23 | 1 21 | 10 31 | 0 44 | 20 9 | 0 17 | 18 52 | 4 37 | 9 52 | 10 8 | 11 47 | 4 23 | 4 58 |
| T 28 | 18 11 | 14 24 | 0n55 | 21 19 | 2 1 | 1 59 | 0 7 | 17 18 | 1 1 | 23 27 | 0 9 | 14 21 | 1 21 | 10 30 | 0 44 | 20 8 | 0 17 | 18 52 | 4 37 | 9 52 | 10 6 | 11 44 | 4 22 | 4 58 |
| W29 | 17 55 | 19 35 | 2 3 | 20 56 | 2 3 | 1 28 | 0 13 | 17 27 | 1 1 | 23 27 | 0 10 | 14 19 | 1 21 | 10 29 | 0 44 | 20 8 | 0 17 | 18 52 | 4 37 | 9 52 | 10 5 | 11 41 | 4 21 | 4 58 |
| T 30 | 17 38 | 23 41 | 3 3 | 20 31 | 2 4 | 0 58 | 0 18 | 17 36 | 1 0 | 23 28 | 0 10 | 14 16 | 1 21 | 10 28 | 0 44 | 20 8 | 0 17 | 18 52 | 4 37 | 9 51 | 10 4 | 11 37 | 4 19 | 4 58 |
| F 31 | 17s21 | 26n31 | 3n52 | 20s 4 | 2s 4 | 0s27 | 0n24 | 17s45 | 1n 0 | 23n28 | 0n10 | 14s14 | 1s21 | 10s27 | 0s44 | 20s 7 | 0n17 | 18n52 | 4s37 | 9n49 | 10n 3 | 11n34 | 4s18 | 4n58 |

Julian Day Number = 2331015.5, Delta T = 29.74 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'02, Lahiri = 19°15'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## FEBRUARY 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 45 44 | 12♒32'21 | 28♊ 1 | 10♒37 | 29♓ 1 | 24♏14 | 6°R44 | 25♒53 | 4♓52 | 29♑ 1 | 0°R 7 | 25°R13 | 25♈55 | 9♍24 | 7♓11 | S 1 |
| S 2 | 8 49 41 | 13°33'07 | 10♋29 | 12°21 | 0♈ 5 | 24°48 | 6♋39 | 26° 0 | 4°55 | 29° 3 | 0♋ 6 | 25♈ 3 | 25°52 | 9°31 | 7°14 | S 2 |
| M 3 | 8 53 37 | 14°33'53 | 22°47 | 14° 7 | 1° 8 | 25°21 | 6°34 | 26° 7 | 4°59 | 29° 5 | 0° 5 | 24°51 | 25°49 | 9°37 | 7°18 | M 3 |
| T 4 | 8 57 34 | 15°34'36 | 4♌57 | 15°53 | 2°10 | 25°55 | 6°29 | 26°14 | 5° 2 | 29° 8 | 0° 5 | 24°38 | 25°45 | 9°44 | 7°22 | T 4 |
| W 5 | 9 1 30 | 16°35'19 | 17° 0 | 17°40 | 3°13 | 26°29 | 6°24 | 26°21 | 5° 5 | 29°10 | 0° 4 | 24°24 | 25°42 | 9°51 | 7°25 | W 5 |
| T 6 | 9 5 27 | 17°36'00 | 28°57 | 19°27 | 4°15 | 27° 3 | 6°20 | 26°29 | 5° 9 | 29°12 | 0° 3 | 24°12 | 25°39 | 9°57 | 7°29 | T 6 |
| F 7 | 9 9 24 | 18°36'39 | 10♍49 | 21°16 | 5°17 | 27°36 | 6°15 | 26°36 | 5°12 | 29°14 | 0° 2 | 24° 2 | 25°36 | 10° 4 | 7°33 | F 7 |
| S 8 | 9 13 20 | 19°37'18 | 22°38 | 23° 5 | 6°18 | 28°10 | 6°11 | 26°43 | 5°15 | 29°16 | 0° 1 | 23°55 | 25°33 | 10°11 | 7°37 | S 8 |
| S 9 | 9 17 17 | 20°37'55 | 4♎26 | 24°54 | 7°19 | 28°43 | 6° 7 | 26°50 | 5°19 | 29°19 | 0° 1 | 23°50 | 25°29 | 10°17 | 7°40 | S 9 |
| M10 | 9 21 13 | 21°38'30 | 16°17 | 26°44 | 8°19 | 29°17 | 6° 3 | 26°57 | 5°22 | 29°21 | 0° 0 | 23°48 | 25°26 | 10°24 | 7°44 | M10 |
| T 11 | 9 25 10 | 22°39'05 | 28°16 | 28°35 | 9°19 | 29°50 | 6° 0 | 27° 5 | 5°25 | 29°23 | 29♊59 | 23°D48 | 25°23 | 10°31 | 7°48 | T 11 |
| W12 | 9 29 6 | 23°39'38 | 10♏26 | 0♓26 | 10°19 | 0♐23 | 5°56 | 27°12 | 5°29 | 29°25 | 29°59 | 23°49 | 25°20 | 10°37 | 7°52 | W12 |
| T 13 | 9 33 3 | 24°40'10 | 22°52 | 2°18 | 11°18 | 0°56 | 5°53 | 27°19 | 5°32 | 29°27 | 29°58 | 23°R49 | 25°17 | 10°44 | 7°56 | T 13 |
| F 14 | 9 36 59 | 25°40'40 | 5♐41 | 4° 9 | 12°16 | 1°30 | 5°50 | 27°27 | 5°36 | 29°29 | 29°57 | 23°49 | 25°14 | 10°51 | 7°59 | F 14 |
| S 15 | 9 40 56 | 26°41'10 | 18°55 | 6° 0 | 13°14 | 2° 2 | 5°47 | 27°34 | 5°39 | 29°31 | 29°57 | 23°46 | 25°10 | 10°57 | 8° 3 | S 15 |
| S 16 | 9 44 53 | 27°41'38 | 2♑39 | 7°52 | 14°12 | 2°35 | 5°44 | 27°41 | 5°42 | 29°33 | 29°56 | 23°42 | 25° 7 | 11° 4 | 8° 7 | S 16 |
| M17 | 9 48 49 | 28°42'05 | 16°52 | 9°42 | 15° 9 | 3° 8 | 5°42 | 27°48 | 5°46 | 29°35 | 29°56 | 23°35 | 25° 4 | 11°11 | 8°11 | M17 |
| T 18 | 9 52 46 | 29°42'30 | 1♒34 | 11°32 | 16° 6 | 3°41 | 5°40 | 27°56 | 5°49 | 29°37 | 29°55 | 23°27 | 25° 1 | 11°18 | 8°15 | T 18 |
| W19 | 9 56 42 | 0♓42'54 | 16°36 | 13°21 | 17° 2 | 4°13 | 5°37 | 28° 3 | 5°53 | 29°40 | 29°55 | 23°18 | 24°58 | 11°24 | 8°19 | W19 |
| T 20 | 10 0 39 | 1°43'16 | 1♓51 | 15° 9 | 17°57 | 4°45 | 5°36 | 28°10 | 5°56 | 29°42 | 29°54 | 23°10 | 24°55 | 11°31 | 8°22 | T 20 |
| F 21 | 10 4 35 | 2°43'36 | 17° 8 | 16°54 | 18°52 | 5°18 | 5°34 | 28°17 | 6° 0 | 29°44 | 29°54 | 23° 4 | 24°51 | 11°38 | 8°26 | F 21 |
| S 22 | 10 8 32 | 3°43'54 | 2♈15 | 18°37 | 19°46 | 5°50 | 5°32 | 28°25 | 6° 3 | 29°45 | 29°53 | 23° 0 | 24°48 | 11°44 | 8°30 | S 22 |
| S 23 | 10 12 28 | 4°44'11 | 17° 4 | 20°18 | 20°39 | 6°22 | 5°31 | 28°32 | 6° 7 | 29°47 | 29°53 | 22°D58 | 24°45 | 11°51 | 8°34 | S 23 |
| M24 | 10 16 25 | 5°44'25 | 1♉30 | 21°55 | 21°32 | 6°54 | 5°30 | 28°39 | 6°10 | 29°49 | 29°52 | 22°58 | 24°42 | 11°58 | 8°38 | M24 |
| T 25 | 10 20 22 | 6°44'37 | 15°29 | 23°28 | 22°24 | 7°26 | 5°29 | 28°46 | 6°13 | 29°51 | 29°52 | 22°59 | 24°39 | 12° 4 | 8°42 | T 25 |
| W26 | 10 24 18 | 7°44'48 | 29° 3 | 24°56 | 23°15 | 7°57 | 5°28 | 28°54 | 6°17 | 29°53 | 29°52 | 23° 1 | 24°35 | 12°11 | 8°46 | W26 |
| T 27 | 10 28 15 | 8°44'56 | 12♊13 | 26°20 | 24° 6 | 8°29 | 5°28 | 29° 1 | 6°20 | 29°55 | 29°51 | 23°R 1 | 24°32 | 12°18 | 8°50 | T 27 |
| F 28 | 10 32 11 | 9♓45'02 | 25♊ 1 | 27♓38 | 24♈56 | 9♐ 0 | 5♋28 | 29♒ 8 | 6♓24 | 29♑57 | 29♊51 | 23♈ 0 | 24♈29 | 12♍24 | 8♓54 | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 17s 4 | 27n57 | 4n28 | 19s36 | 2s 5 | 0n 3 | 0n29 | 17s54 | 0n59 | 23n29 | 0n10 | 14s11 | 1s21 | 10s26 | 0s44 | 20s 7 | 0n17 | 18n53 | 4s36 | 9n47 | 10n 2 | 11n31 | 4s17 | 4n57 | S 1 |
| S 2 | 16 47 | 27 55 | 4 52 | 19 7 | 2 4 | 0 34 | 0 35 | 18 3 | 0 59 | 23 29 | 0 10 | 14 9 | 1 21 | 10 24 | 0 44 | 20 6 | 0 17 | 18 53 | 4 36 | 9 43 | 10 1 | 11 28 | 4 16 | 4 57 | S 2 |
| M 3 | 16 30 | 26 30 | 5 1 | 18 36 | 2 4 | 1 4 | 0 41 | 18 12 | 0 58 | 23 29 | 0 10 | 14 7 | 1 21 | 10 23 | 0 44 | 20 6 | 0 17 | 18 53 | 4 36 | 9 38 | 9 59 | 11 25 | 4 15 | 4 57 | M 3 |
| T 4 | 16 12 | 23 51 | 4 56 | 18 3 | 2 2 | 1 35 | 0 47 | 18 20 | 0 58 | 23 30 | 0 10 | 14 4 | 1 21 | 10 22 | 0 44 | 20 5 | 0 17 | 18 53 | 4 36 | 9 34 | 9 58 | 11 22 | 4 14 | 4 57 | T 4 |
| W 5 | 15 54 | 20 11 | 4 39 | 17 29 | 2 1 | 2 5 | 0 53 | 18 29 | 0 57 | 23 30 | 0 10 | 14 2 | 1 21 | 10 21 | 0 44 | 20 5 | 0 17 | 18 53 | 4 36 | 9 29 | 9 57 | 11 19 | 4 12 | 4 57 | W 5 |
| T 6 | 15 35 | 15 44 | 4 9 | 16 53 | 1 59 | 2 35 | 0 59 | 18 37 | 0 57 | 23 30 | 0 10 | 13 59 | 1 21 | 10 19 | 0 44 | 20 4 | 0 17 | 18 53 | 4 36 | 9 24 | 9 56 | 11 16 | 4 11 | 4 57 | T 6 |
| F 7 | 15 17 | 10 44 | 3 28 | 16 16 | 1 56 | 3 5 | 1 5 | 18 45 | 0 56 | 23 31 | 0 11 | 13 57 | 1 21 | 10 18 | 0 44 | 20 4 | 0 17 | 18 53 | 4 36 | 9 20 | 9 55 | 11 13 | 4 10 | 4 57 | F 7 |
| S 8 | 14 58 | 5 21 | 2 38 | 15 38 | 1 53 | 3 35 | 1 11 | 18 53 | 0 56 | 23 31 | 0 11 | 13 54 | 1 21 | 10 17 | 0 44 | 20 4 | 0 17 | 18 54 | 4 36 | 9 18 | 9 54 | 11 9 | 4 9 | 4 56 | S 8 |
| S 9 | 14 38 | 0s13 | 1 41 | 14 57 | 1 49 | 4 5 | 1 17 | 19 1 | 0 55 | 23 31 | 0 11 | 13 52 | 1 22 | 10 16 | 0 44 | 20 3 | 0 17 | 18 54 | 4 35 | 9 16 | 9 53 | 11 6 | 4 7 | 4 56 | S 9 |
| M10 | 14 19 | 5 48 | 0 40 | 14 16 | 1 45 | 4 35 | 1 24 | 19 9 | 0 55 | 23 32 | 0 11 | 13 50 | 1 22 | 10 15 | 0 44 | 20 3 | 0 17 | 18 54 | 4 35 | 9 15 | 9 51 | 11 3 | 4 6 | 4 56 | M10 |
| T 11 | 13 59 | 11 15 | 0s24 | 13 33 | 1 40 | 5 5 | 1 30 | 19 17 | 0 54 | 23 32 | 0 11 | 13 47 | 1 22 | 10 13 | 0 44 | 20 2 | 0 17 | 18 54 | 4 35 | 9 15 | 9 50 | 11 0 | 4 5 | 4 56 | T 11 |
| W12 | 13 40 | 16 22 | 1 28 | 12 48 | 1 34 | 5 34 | 1 36 | 19 24 | 0 53 | 23 32 | 0 11 | 13 45 | 1 22 | 10 12 | 0 44 | 20 2 | 0 17 | 18 54 | 4 35 | 9 15 | 9 49 | 10 57 | 4 4 | 4 56 | W12 |
| T 13 | 13 19 | 20 56 | 2 29 | 12 3 | 1 28 | 6 3 | 1 43 | 19 32 | 0 53 | 23 32 | 0 11 | 13 42 | 1 22 | 10 11 | 0 44 | 20 1 | 0 17 | 18 54 | 4 35 | 9 16 | 9 48 | 10 54 | 4 2 | 4 56 | T 13 |
| F 14 | 12 59 | 24 39 | 3 25 | 11 16 | 1 21 | 6 32 | 1 50 | 19 39 | 0 52 | 23 33 | 0 11 | 13 40 | 1 22 | 10 9 | 0 44 | 20 1 | 0 17 | 18 54 | 4 35 | 9 15 | 9 47 | 10 51 | 4 1 | 4 56 | F 14 |
| S 15 | 12 39 | 27 12 | 4 12 | 10 28 | 1 14 | 7 1 | 1 56 | 19 46 | 0 51 | 23 33 | 0 11 | 13 37 | 1 22 | 10 8 | 0 44 | 20 0 | 0 17 | 18 55 | 4 35 | 9 15 | 9 46 | 10 48 | 4 0 | 4 56 | S 15 |
| S 16 | 12 18 | 28 13 | 4 46 | 9 39 | 1 6 | 7 30 | 2 3 | 19 53 | 0 51 | 23 33 | 0 11 | 13 35 | 1 22 | 10 7 | 0 44 | 20 0 | 0 17 | 18 55 | 4 34 | 9 13 | 9 44 | 10 44 | 3 58 | 4 55 | S 16 |
| M17 | 11 57 | 27 26 | 5 4 | 8 49 | 0 57 | 7 58 | 2 10 | 20 0 | 0 50 | 23 33 | 0 12 | 13 32 | 1 22 | 10 6 | 0 44 | 20 0 | 0 17 | 18 55 | 4 34 | 9 10 | 9 43 | 10 41 | 3 57 | 4 55 | M17 |
| T 18 | 11 36 | 24 46 | 5 3 | 7 59 | 0 48 | 8 27 | 2 17 | 20 7 | 0 49 | 23 33 | 0 12 | 13 30 | 1 22 | 10 4 | 0 44 | 19 59 | 0 17 | 18 55 | 4 34 | 9 7 | 9 42 | 10 38 | 3 56 | 4 55 | T 18 |
| W19 | 11 14 | 20 21 | 4 41 | 7 8 | 0 38 | 8 54 | 2 23 | 20 14 | 0 49 | 23 34 | 0 12 | 13 27 | 1 22 | 10 3 | 0 44 | 19 59 | 0 17 | 18 55 | 4 34 | 9 4 | 9 41 | 10 35 | 3 54 | 4 55 | W19 |
| T 20 | 10 53 | 14 34 | 4 0 | 6 17 | 0 27 | 9 22 | 2 30 | 20 21 | 0 48 | 23 34 | 0 12 | 13 25 | 1 22 | 10 2 | 0 44 | 19 58 | 0 17 | 18 55 | 4 34 | 9 1 | 9 40 | 10 32 | 3 53 | 4 55 | T 20 |
| F 21 | 10 31 | 7 52 | 3 1 | 5 25 | 0 16 | 9 50 | 2 37 | 20 27 | 0 47 | 23 34 | 0 12 | 13 23 | 1 22 | 10 1 | 0 44 | 19 58 | 0 17 | 18 55 | 4 34 | 8 59 | 9 39 | 10 29 | 3 52 | 4 55 | F 21 |
| S 22 | 10 9 | 0 47 | 1 49 | 4 34 | 0 4 | 10 17 | 2 44 | 20 33 | 0 46 | 23 34 | 0 12 | 13 20 | 1 22 | 9 59 | 0 44 | 19 58 | 0 17 | 18 56 | 4 34 | 8 57 | 9 37 | 10 25 | 3 50 | 4 55 | S 22 |
| S 23 | 9 48 | 6n14 | 0 32 | 3 43 | 0n 9 | 10 44 | 2 52 | 20 40 | 0 46 | 23 34 | 0 12 | 13 18 | 1 22 | 9 58 | 0 44 | 19 57 | 0 17 | 18 56 | 4 33 | 8 57 | 9 36 | 10 22 | 3 49 | 4 55 | S 23 |
| M24 | 9 25 | 12 44 | 0n46 | 2 53 | 0 22 | 11 10 | 2 59 | 20 46 | 0 45 | 23 34 | 0 12 | 13 15 | 1 22 | 9 57 | 0 44 | 19 57 | 0 17 | 18 56 | 4 33 | 8 57 | 9 35 | 10 19 | 3 47 | 4 55 | M24 |
| T 25 | 9 3 | 18 24 | 1 59 | 2 4 | 0 35 | 11 36 | 3 6 | 20 52 | 0 44 | 23 35 | 0 12 | 13 13 | 1 22 | 9 56 | 0 44 | 19 56 | 0 17 | 18 56 | 4 33 | 8 57 | 9 34 | 10 16 | 3 46 | 4 55 | T 25 |
| W26 | 8 41 | 22 57 | 3 2 | 1 16 | 0 49 | 12 2 | 3 13 | 20 58 | 0 43 | 23 35 | 0 12 | 13 10 | 1 23 | 9 54 | 0 44 | 19 56 | 0 17 | 18 56 | 4 33 | 8 58 | 9 33 | 10 13 | 3 45 | 4 55 | W26 |
| T 27 | 8 18 | 26 10 | 3 55 | 0 30 | 1 3 | 12 28 | 3 20 | 21 4 | 0 42 | 23 35 | 0 13 | 13 8 | 1 23 | 9 53 | 0 44 | 19 56 | 0 17 | 18 56 | 4 33 | 8 58 | 9 32 | 10 10 | 3 43 | 4 55 | T 27 |
| F 28 | 7s56 | 27n57 | 4n33 | 0n14 | 1n17 | 12n53 | 3n28 | 21s 9 | 0n42 | 23n35 | 0n13 | 13s 5 | 1s23 | 9s52 | 0s44 | 19s55 | 0n17 | 18n56 | 4s33 | 8n57 | 9n30 | 10n 6 | 3s42 | 4n55 | F 28 |

Julian Day Number = 2331046.5, Delta T = 29.69 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'07, Lahiri = 19°15'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## MARCH 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 36 8 | 10♓45'06 | 7♋33 | 28♓49 | 25♈45 | 9♐31 | 5°D27 | 29♒15 | 6♓27 | 29♑59 | 29°R51 | 22°R56 | 24♈26 | 12♍31 | 8♓57 | S 1 |
| S 2 | 10 40 4 | 11°45'08 | 19°51 | 29°54 | 26°33 | 10° 3 | 5♋28 | 29°23 | 6°31 | 0♒ 1 | 29♊50 | 22♈51 | 24°23 | 12°38 | 9° 1 | S 2 |
| M 3 | 10 44 1 | 12°45'08 | 1♌59 | 0♈52 | 27°20 | 10°34 | 5°28 | 29°30 | 6°34 | 0° 2 | 29°50 | 22°45 | 24°20 | 12°44 | 9° 5 | M 3 |
| T 4 | 10 47 57 | 13°45'05 | 13°59 | 1°42 | 28° 6 | 11° 5 | 5°28 | 29°37 | 6°37 | 0° 4 | 29°50 | 22°37 | 24°16 | 12°51 | 9° 9 | T 4 |
| W 5 | 10 51 54 | 14°45'00 | 25°54 | 2°24 | 28°51 | 11°35 | 5°29 | 29°44 | 6°41 | 0° 6 | 29°50 | 22°30 | 24°13 | 12°58 | 9°13 | W 5 |
| T 6 | 10 55 51 | 15°44'54 | 7♍45 | 2°58 | 29°35 | 12° 6 | 5°30 | 29°51 | 6°44 | 0° 8 | 29°49 | 22°23 | 24°10 | 13° 4 | 9°17 | T 6 |
| F 7 | 10 59 47 | 16°44'45 | 19°35 | 3°23 | 0♉19 | 12°36 | 5°31 | 29°58 | 6°48 | 0° 9 | 29°49 | 22°18 | 24° 7 | 13°11 | 9°21 | F 7 |
| S 8 | 11 3 44 | 17°44'35 | 1♎25 | 3°39 | 1° 1 | 13° 7 | 5°32 | 0♓ 5 | 6°51 | 0°11 | 29°49 | 22°14 | 24° 4 | 13°18 | 9°25 | S 8 |
| S 9 | 11 7 40 | 18°44'22 | 13°17 | 3°R47 | 1°42 | 13°37 | 5°34 | 0°12 | 6°55 | 0°13 | 29°49 | 22°12 | 24° 0 | 13°24 | 9°28 | S 9 |
| M10 | 11 11 37 | 19°44'08 | 25°14 | 3°46 | 2°21 | 14° 7 | 5°35 | 0°19 | 6°58 | 0°14 | 29°49 | 22°D11 | 23°57 | 13°31 | 9°32 | M10 |
| T 11 | 11 15 33 | 20°43'51 | 7♏18 | 3°37 | 3° 0 | 14°36 | 5°37 | 0°26 | 7° 1 | 0°16 | 29°49 | 22°12 | 23°54 | 13°38 | 9°36 | T 11 |
| W12 | 11 19 30 | 21°43'33 | 19°33 | 3°20 | 3°37 | 15° 6 | 5°39 | 0°33 | 7° 5 | 0°18 | 29°49 | 22°14 | 23°51 | 13°44 | 9°40 | W12 |
| T 13 | 11 23 26 | 22°43'14 | 2♐ 2 | 2°55 | 4°13 | 15°36 | 5°41 | 0°40 | 7° 8 | 0°19 | 29°49 | 22°16 | 23°48 | 13°51 | 9°44 | T 13 |
| F 14 | 11 27 23 | 23°42'52 | 14°50 | 2°23 | 4°48 | 16° 5 | 5°44 | 0°47 | 7°11 | 0°21 | 29°D49 | 22°17 | 23°45 | 13°58 | 9°48 | F 14 |
| S 15 | 11 31 20 | 24°42'29 | 28° 0 | 1°46 | 5°22 | 16°34 | 5°46 | 0°54 | 7°15 | 0°22 | 29°49 | 22°R17 | 23°41 | 14° 5 | 9°51 | S 15 |
| S 16 | 11 35 16 | 25°42'04 | 11♑35 | 1° 3 | 5°53 | 17° 3 | 5°49 | 1° 1 | 7°18 | 0°24 | 29°49 | 22°16 | 23°38 | 14°11 | 9°55 | S 16 |
| M17 | 11 39 13 | 26°41'38 | 25°36 | 0°16 | 6°24 | 17°32 | 5°52 | 1° 8 | 7°21 | 0°25 | 29°49 | 22°14 | 23°35 | 14°18 | 9°59 | M17 |
| T 18 | 11 43 9 | 27°41'09 | 10♒ 4 | 29♓25 | 6°52 | 18° 0 | 5°55 | 1°14 | 7°25 | 0°27 | 29°49 | 22°11 | 23°32 | 14°25 | 10° 3 | T 18 |
| W19 | 11 47 6 | 28°40'39 | 24°53 | 28°33 | 7°20 | 18°29 | 5°58 | 1°21 | 7°28 | 0°28 | 29°49 | 22° 8 | 23°29 | 14°31 | 10° 6 | W19 |
| T 20 | 11 51 2 | 29°40'07 | 9♓58 | 27°40 | 7°45 | 18°57 | 6° 2 | 1°28 | 7°31 | 0°30 | 29°49 | 22° 5 | 23°26 | 14°38 | 10°10 | T 20 |
| F 21 | 11 54 59 | 0♈39'33 | 25°10 | 26°47 | 8° 9 | 19°25 | 6° 5 | 1°35 | 7°34 | 0°31 | 29°49 | 22° 2 | 23°22 | 14°45 | 10°14 | F 21 |
| S 22 | 11 58 55 | 1°38'56 | 10♈20 | 25°56 | 8°31 | 19°52 | 6° 9 | 1°41 | 7°38 | 0°32 | 29°50 | 22° 1 | 23°19 | 14°51 | 10°18 | S 22 |
| S 23 | 12 2 52 | 2°38'18 | 25°16 | 25° 6 | 8°51 | 20°20 | 6°13 | 1°48 | 7°41 | 0°34 | 29°50 | 22°D 1 | 23°16 | 14°58 | 10°21 | S 23 |
| M24 | 12 6 49 | 3°37'38 | 9♉53 | 24°20 | 9° 9 | 20°47 | 6°18 | 1°54 | 7°44 | 0°35 | 29°50 | 22° 1 | 23°13 | 15° 5 | 10°25 | M24 |
| T 25 | 12 10 45 | 4°36'55 | 24° 4 | 23°38 | 9°25 | 21°14 | 6°22 | 2° 1 | 7°47 | 0°36 | 29°50 | 22° 2 | 23°10 | 15°11 | 10°28 | T 25 |
| W26 | 12 14 42 | 5°36'10 | 7♊49 | 23° 0 | 9°39 | 21°41 | 6°26 | 2° 8 | 7°50 | 0°37 | 29°50 | 22° 4 | 23° 6 | 15°18 | 10°32 | W26 |
| T 27 | 12 18 38 | 6°35'23 | 21° 7 | 22°26 | 9°51 | 22° 7 | 6°31 | 2°14 | 7°53 | 0°38 | 29°51 | 22° 5 | 23° 3 | 15°25 | 10°36 | T 27 |
| F 28 | 12 22 35 | 7°34'33 | 4♋ 1 | 21°58 | 10° 1 | 22°34 | 6°36 | 2°20 | 7°57 | 0°40 | 29°51 | 22°R 5 | 23° 0 | 15°31 | 10°39 | F 28 |
| S 29 | 12 26 31 | 8°33'41 | 16°35 | 21°36 | 10° 9 | 23° 0 | 6°41 | 2°27 | 8° 0 | 0°41 | 29°51 | 22° 5 | 22°57 | 15°38 | 10°43 | S 29 |
| S 30 | 12 30 28 | 9°32'47 | 28°51 | 21°18 | 10°14 | 23°26 | 6°46 | 2°33 | 8° 3 | 0°42 | 29°52 | 22° 4 | 22°54 | 15°45 | 10°46 | S 30 |
| M31 | 12 34 24 | 10♈31'50 | 10♌55 | 21♓ 7 | 10♉17 | 23♐51 | 6♋52 | 2♓39 | 8♓ 6 | 0♒43 | 29♊52 | 22♈ 3 | 22♈51 | 15♍51 | 10♓50 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s33 | 28n14 | 4n58 | 0n55 | 1n31 | 13n18 | 3n35 | 21s15 | 0n41 | 23n35 | 0n13 | 13s 3 | 1s23 | 9s50 | 0s44 | 19s55 | 0n17 | 18n57 | 4s32 | 8n56 | 9n29 | 10n 3 | 3s41 | 4n54 |
| S 2 | 7 10 | 27 6 | 5 9 | 1 34 | 1 45 | 13 42 | 3 42 | 21 20 | 0 40 | 23 35 | 0 13 | 13 0 | 1 23 | 9 49 | 0 44 | 19 54 | 0 17 | 18 57 | 4 32 | 8 54 | 9 28 | 10 0 | 3 39 | 4 54 |
| M 3 | 6 47 | 24 43 | 5 5 | 2 10 | 1 59 | 14 6 | 3 49 | 21 26 | 0 39 | 23 35 | 0 13 | 12 58 | 1 23 | 9 48 | 0 44 | 19 54 | 0 17 | 18 57 | 4 32 | 8 52 | 9 27 | 9 57 | 3 38 | 4 54 |
| T 4 | 6 24 | 21 15 | 4 48 | 2 42 | 2 12 | 14 30 | 3 57 | 21 31 | 0 38 | 23 35 | 0 13 | 12 56 | 1 23 | 9 47 | 0 44 | 19 54 | 0 17 | 18 57 | 4 32 | 8 49 | 9 26 | 9 54 | 3 36 | 4 54 |
| W 5 | 6 1 | 16 58 | 4 19 | 3 10 | 2 25 | 14 53 | 4 4 | 21 36 | 0 37 | 23 35 | 0 13 | 12 53 | 1 23 | 9 45 | 0 44 | 19 53 | 0 17 | 18 57 | 4 32 | 8 46 | 9 25 | 9 50 | 3 35 | 4 54 |
| T 6 | 5 38 | 12 3 | 3 38 | 3 35 | 2 37 | 15 16 | 4 11 | 21 41 | 0 36 | 23 35 | 0 13 | 12 51 | 1 23 | 9 44 | 0 44 | 19 53 | 0 17 | 18 57 | 4 32 | 8 44 | 9 23 | 9 47 | 3 33 | 4 54 |
| F 7 | 5 15 | 6 43 | 2 48 | 3 56 | 2 49 | 15 38 | 4 19 | 21 46 | 0 35 | 23 35 | 0 13 | 12 48 | 1 23 | 9 43 | 0 44 | 19 53 | 0 17 | 18 58 | 4 32 | 8 42 | 9 22 | 9 44 | 3 32 | 4 54 |
| S 8 | 4 51 | 1 8 | 1 51 | 4 12 | 2 59 | 16 0 | 4 26 | 21 51 | 0 34 | 23 35 | 0 13 | 12 46 | 1 23 | 9 42 | 0 44 | 19 52 | 0 17 | 18 58 | 4 31 | 8 40 | 9 21 | 9 41 | 3 31 | 4 54 |
| S 9 | 4 28 | 4s30 | 0 49 | 4 24 | 3 9 | 16 21 | 4 33 | 21 56 | 0 33 | 23 35 | 0 13 | 12 43 | 1 24 | 9 40 | 0 44 | 19 52 | 0 17 | 18 58 | 4 31 | 8 39 | 9 20 | 9 38 | 3 29 | 4 54 |
| M10 | 4 4 | 10 2 | 0s17 | 4 31 | 3 17 | 16 42 | 4 40 | 22 0 | 0 32 | 23 35 | 0 13 | 12 41 | 1 24 | 9 39 | 0 44 | 19 51 | 0 17 | 18 58 | 4 31 | 8 39 | 9 19 | 9 35 | 3 28 | 4 54 |
| T 11 | 3 41 | 15 16 | 1 22 | 4 33 | 3 24 | 17 2 | 4 48 | 22 5 | 0 31 | 23 35 | 0 14 | 12 39 | 1 24 | 9 38 | 0 44 | 19 51 | 0 17 | 18 58 | 4 31 | 8 40 | 9 18 | 9 31 | 3 26 | 4 54 |
| W12 | 3 17 | 19 58 | 2 24 | 4 31 | 3 29 | 17 22 | 4 55 | 22 9 | 0 30 | 23 35 | 0 14 | 12 36 | 1 24 | 9 37 | 0 44 | 19 51 | 0 17 | 18 58 | 4 31 | 8 40 | 9 16 | 9 28 | 3 25 | 4 54 |
| T 13 | 2 54 | 23 54 | 3 21 | 4 24 | 3 32 | 17 41 | 5 2 | 22 14 | 0 29 | 23 35 | 0 14 | 12 34 | 1 24 | 9 35 | 0 44 | 19 50 | 0 17 | 18 59 | 4 31 | 8 41 | 9 15 | 9 25 | 3 23 | 4 54 |
| F 14 | 2 30 | 26 45 | 4 10 | 4 13 | 3 34 | 17 59 | 5 9 | 22 18 | 0 28 | 23 35 | 0 14 | 12 32 | 1 24 | 9 34 | 0 44 | 19 50 | 0 17 | 18 59 | 4 30 | 8 41 | 9 14 | 9 22 | 3 22 | 4 54 |
| S 15 | 2 6 | 28 15 | 4 47 | 3 58 | 3 34 | 18 17 | 5 16 | 22 22 | 0 27 | 23 35 | 0 14 | 12 29 | 1 24 | 9 33 | 0 44 | 19 50 | 0 17 | 18 59 | 4 30 | 8 41 | 9 13 | 9 18 | 3 21 | 4 54 |
| S 16 | 1 43 | 28 6 | 5 9 | 3 39 | 3 32 | 18 35 | 5 23 | 22 26 | 0 25 | 23 35 | 0 14 | 12 27 | 1 24 | 9 32 | 0 44 | 19 49 | 0 17 | 18 59 | 4 30 | 8 41 | 9 12 | 9 15 | 3 19 | 4 54 |
| M17 | 1 19 | 26 12 | 5 14 | 3 17 | 3 28 | 18 51 | 5 30 | 22 30 | 0 24 | 23 35 | 0 14 | 12 25 | 1 24 | 9 30 | 0 44 | 19 49 | 0 17 | 18 59 | 4 30 | 8 40 | 9 10 | 9 12 | 3 18 | 4 54 |
| T 18 | 0 55 | 22 33 | 4 59 | 2 52 | 3 22 | 19 7 | 5 36 | 22 34 | 0 23 | 23 35 | 0 14 | 12 22 | 1 25 | 9 29 | 0 44 | 19 49 | 0 17 | 18 59 | 4 30 | 8 39 | 9 9 | 9 9 | 3 16 | 4 54 |
| W19 | 0 32 | 17 24 | 4 25 | 2 24 | 3 15 | 19 23 | 5 43 | 22 37 | 0 22 | 23 35 | 0 14 | 12 20 | 1 25 | 9 28 | 0 44 | 19 49 | 0 17 | 18 59 | 4 30 | 8 38 | 9 8 | 9 6 | 3 15 | 4 54 |
| T 20 | 0 8 | 11 6 | 3 31 | 1 55 | 3 6 | 19 37 | 5 49 | 22 41 | 0 21 | 23 35 | 0 14 | 12 18 | 1 25 | 9 27 | 0 44 | 19 48 | 0 17 | 19 0 | 4 29 | 8 37 | 9 7 | 9 2 | 3 14 | 4 54 |
| F 21 | 0n16 | 4 6 | 2 23 | 1 24 | 2 55 | 19 51 | 5 56 | 22 45 | 0 19 | 23 35 | 0 14 | 12 15 | 1 25 | 9 26 | 0 44 | 19 48 | 0 17 | 19 0 | 4 29 | 8 36 | 9 6 | 8 59 | 3 12 | 4 54 |
| S 22 | 0 39 | 3n 7 | 1 4 | 0 52 | 2 43 | 20 4 | 6 2 | 22 48 | 0 18 | 23 35 | 0 14 | 12 13 | 1 25 | 9 24 | 0 44 | 19 48 | 0 17 | 19 0 | 4 29 | 8 35 | 9 5 | 8 56 | 3 11 | 4 54 |
| S 23 | 1 3 | 10 4 | 0n18 | 0 21 | 2 30 | 20 16 | 6 8 | 22 51 | 0 17 | 23 35 | 0 14 | 12 11 | 1 25 | 9 23 | 0 44 | 19 47 | 0 17 | 19 0 | 4 29 | 8 35 | 9 3 | 8 53 | 3 9 | 4 54 |
| M24 | 1 27 | 16 20 | 1 37 | 0s10 | 2 16 | 20 28 | 6 14 | 22 55 | 0 15 | 23 35 | 0 14 | 12 9 | 1 25 | 9 22 | 0 44 | 19 47 | 0 17 | 19 0 | 4 29 | 8 36 | 9 2 | 8 49 | 3 8 | 4 55 |
| T 25 | 1 50 | 21 32 | 2 48 | 0 41 | 2 1 | 20 39 | 6 19 | 22 58 | 0 14 | 23 34 | 0 15 | 12 6 | 1 25 | 9 21 | 0 44 | 19 47 | 0 17 | 19 0 | 4 29 | 8 36 | 9 1 | 8 46 | 3 6 | 4 55 |
| W26 | 2 14 | 25 23 | 3 47 | 1 10 | 1 46 | 20 48 | 6 25 | 23 1 | 0 12 | 23 34 | 0 15 | 12 4 | 1 26 | 9 20 | 0 44 | 19 47 | 0 17 | 19 1 | 4 29 | 8 37 | 9 0 | 8 43 | 3 5 | 4 55 |
| T 27 | 2 37 | 27 42 | 4 32 | 1 38 | 1 30 | 20 57 | 6 30 | 23 4 | 0 11 | 23 34 | 0 15 | 12 2 | 1 26 | 9 19 | 0 44 | 19 46 | 0 17 | 19 1 | 4 28 | 8 37 | 8 59 | 8 40 | 3 4 | 4 55 |
| F 28 | 3 1 | 28 26 | 5 1 | 2 3 | 1 14 | 21 5 | 6 35 | 23 7 | 0 9 | 23 34 | 0 15 | 12 0 | 1 26 | 9 17 | 0 44 | 19 46 | 0 17 | 19 1 | 4 28 | 8 37 | 8 58 | 8 36 | 3 2 | 4 55 |
| S 29 | 3 24 | 27 40 | 5 15 | 2 27 | 0 58 | 21 11 | 6 39 | 23 10 | 0 8 | 23 34 | 0 15 | 11 58 | 1 26 | 9 16 | 0 44 | 19 46 | 0 17 | 19 1 | 4 28 | 8 37 | 8 56 | 8 33 | 3 1 | 4 55 |
| S 30 | 3 47 | 25 33 | 5 14 | 2 48 | 0 43 | 21 17 | 6 43 | 23 13 | 0 6 | 23 34 | 0 15 | 11 55 | 1 26 | 9 15 | 0 44 | 19 46 | 0 17 | 19 1 | 4 28 | 8 37 | 8 55 | 8 30 | 2 59 | 4 55 |
| M31 | 4n11 | 22n19 | 5n 0 | 3s 7 | 0n27 | 21n22 | 6n47 | 23s16 | 0n 5 | 23n33 | 0n15 | 11s53 | 1s26 | 9s14 | 0s44 | 19s45 | 0n17 | 19n 1 | 4s28 | 8n36 | 8n54 | 8n27 | 2s58 | 4n55 |

Julian Day Number = 2331074.5, Delta T = 29.64 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'11, Lahiri = 19°15'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## APRIL 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 38 21 | 11♈30'51 | 22♌50 | 21°R 1 | 10°R17 | 24♐16 | 6♋57 | 2♓46 | 8♓ 9 | 0♒44 | 29♊53 | 22°R 2 | 22♈47 | 15♍58 | 10♓53 | T 1 |
| W 2 | 12 42 18 | 12°29'50 | 4♍41 | 21°D 1 | 10♉15 | 24°41 | 7° 3 | 2°52 | 8°12 | 0°45 | 29°53 | 22♈ 0 | 22°44 | 16° 5 | 10°57 | W 2 |
| T 3 | 12 46 14 | 13°28'47 | 16°30 | 21♓ 6 | 10°11 | 25° 6 | 7° 9 | 2°58 | 8°15 | 0°46 | 29°54 | 21°59 | 22°41 | 16°11 | 11° 0 | T 3 |
| F 4 | 12 50 11 | 14°27'41 | 28°20 | 21°16 | 10° 4 | 25°31 | 7°15 | 3° 4 | 8°18 | 0°47 | 29°54 | 21°58 | 22°38 | 16°18 | 11° 4 | F 4 |
| S 5 | 12 54 7 | 15°26'33 | 10♎14 | 21°31 | 9°55 | 25°55 | 7°21 | 3°10 | 8°21 | 0°48 | 29°55 | 21°57 | 22°35 | 16°25 | 11° 7 | S 5 |
| S 6 | 12 58 4 | 16°25'24 | 22°13 | 21°51 | 9°43 | 26°19 | 7°27 | 3°16 | 8°24 | 0°49 | 29°55 | 21°D57 | 22°32 | 16°31 | 11°10 | S 6 |
| M 7 | 13 2 0 | 17°24'12 | 4♏20 | 22°16 | 9°28 | 26°42 | 7°34 | 3°22 | 8°26 | 0°50 | 29°56 | 21°57 | 22°28 | 16°38 | 11°14 | M 7 |
| T 8 | 13 5 57 | 18°22'58 | 16°37 | 22°45 | 9°12 | 27° 6 | 7°40 | 3°28 | 8°29 | 0°50 | 29°56 | 21°58 | 22°25 | 16°45 | 11°17 | T 8 |
| W 9 | 13 9 53 | 19°21'43 | 29° 5 | 23°18 | 8°53 | 27°28 | 7°47 | 3°34 | 8°32 | 0°51 | 29°57 | 21°58 | 22°22 | 16°51 | 11°20 | W 9 |
| T 10 | 13 13 50 | 20°20'26 | 11♐46 | 23°56 | 8°31 | 27°51 | 7°54 | 3°39 | 8°35 | 0°52 | 29°57 | 21°58 | 22°19 | 16°58 | 11°23 | T 10 |
| F 11 | 13 17 46 | 21°19'07 | 24°43 | 24°37 | 8° 7 | 28°13 | 8° 1 | 3°45 | 8°38 | 0°53 | 29°58 | 21°58 | 22°16 | 17° 5 | 11°26 | F 11 |
| S 12 | 13 21 43 | 22°17'46 | 7♑57 | 25°22 | 7°42 | 28°35 | 8° 8 | 3°51 | 8°40 | 0°53 | 29°59 | 21°R58 | 22°12 | 17°11 | 11°30 | S 12 |
| S 13 | 13 25 40 | 23°16'24 | 21°29 | 26°10 | 7°14 | 28°57 | 8°15 | 3°56 | 8°43 | 0°54 | 29°59 | 21°D58 | 22° 9 | 17°18 | 11°33 | S 13 |
| M14 | 13 29 36 | 24°15'00 | 5♒22 | 27° 2 | 6°44 | 29°18 | 8°23 | 4° 2 | 8°46 | 0°55 | 29°59 | 21°58 | 22° 6 | 17°25 | 11°36 | M14 |
| T 15 | 13 33 33 | 25°13'34 | 19°34 | 27°57 | 6°13 | 29°39 | 8°30 | 4° 7 | 8°48 | 0°55 | 0♋ 1 | 21°59 | 22° 3 | 17°31 | 11°39 | T 15 |
| W16 | 13 37 29 | 26°12'07 | 4♓ 4 | 28°55 | 5°40 | 29°59 | 8°38 | 4°13 | 8°51 | 0°56 | 0° 1 | 21°59 | 22° 0 | 17°38 | 11°42 | W16 |
| T 17 | 13 41 26 | 27°10'38 | 18°48 | 29°55 | 5° 5 | 0♑19 | 8°46 | 4°18 | 8°53 | 0°56 | 0° 2 | 21°59 | 21°57 | 17°45 | 11°45 | T 17 |
| F 18 | 13 45 22 | 28° 9'07 | 3♈41 | 0♈59 | 4°30 | 0°39 | 8°54 | 4°23 | 8°56 | 0°57 | 0° 3 | 22° 0 | 21°53 | 17°51 | 11°48 | F 18 |
| S 19 | 13 49 19 | 29° 7'34 | 18°34 | 2° 5 | 3°53 | 0°58 | 9° 2 | 4°29 | 8°58 | 0°57 | 0° 4 | 22°R 0 | 21°50 | 17°58 | 11°51 | S 19 |
| S 20 | 13 53 15 | 0♉ 6'00 | 3♉21 | 3°14 | 3°16 | 1°17 | 9°10 | 4°34 | 9° 1 | 0°58 | 0° 5 | 22° 0 | 21°47 | 18° 5 | 11°54 | S 20 |
| M21 | 13 57 12 | 1° 4'24 | 17°54 | 4°25 | 2°39 | 1°35 | 9°18 | 4°39 | 9° 3 | 0°58 | 0° 5 | 21°59 | 21°44 | 18°11 | 11°56 | M21 |
| T 22 | 14 1 9 | 2° 2'46 | 2♊ 8 | 5°38 | 2° 1 | 1°53 | 9°27 | 4°44 | 9° 6 | 0°59 | 0° 6 | 21°58 | 21°41 | 18°18 | 11°59 | T 22 |
| W23 | 14 5 5 | 3° 1'06 | 15°57 | 6°54 | 1°23 | 2°11 | 9°35 | 4°49 | 9° 8 | 0°59 | 0° 7 | 21°57 | 21°38 | 18°25 | 12° 2 | W23 |
| T 24 | 14 9 2 | 3°59'24 | 29°22 | 8°12 | 0°46 | 2°28 | 9°44 | 4°54 | 9°10 | 0°59 | 0° 8 | 21°56 | 21°34 | 18°31 | 12° 5 | T 24 |
| F 25 | 14 12 58 | 4°57'40 | 12♋22 | 9°33 | 0° 9 | 2°44 | 9°53 | 4°59 | 9°13 | 1° 0 | 0° 9 | 21°54 | 21°31 | 18°38 | 12° 7 | F 25 |
| S 26 | 14 16 55 | 5°55'54 | 24°59 | 10°55 | 29♈33 | 3° 0 | 10° 2 | 5° 3 | 9°15 | 1° 0 | 0°10 | 21°53 | 21°28 | 18°45 | 12°10 | S 26 |
| S 27 | 14 20 51 | 6°54'06 | 7♌18 | 12°20 | 28°57 | 3°16 | 10°11 | 5° 8 | 9°17 | 1° 0 | 0°11 | 21°D53 | 21°25 | 18°51 | 12°13 | S 27 |
| M28 | 14 24 48 | 7°52'16 | 19°23 | 13°46 | 28°23 | 3°31 | 10°20 | 5°13 | 9°19 | 1° 0 | 0°12 | 21°53 | 21°22 | 18°58 | 12°15 | M28 |
| T 29 | 14 28 44 | 8°50'24 | 1♍17 | 15°15 | 27°50 | 3°45 | 10°29 | 5°17 | 9°22 | 1° 0 | 0°13 | 21°54 | 21°18 | 19° 5 | 12°18 | T 29 |
| W30 | 14 32 41 | 9♉48'30 | 13♍ 7 | 16♈46 | 27♈19 | 3♑59 | 10♋39 | 5♓22 | 9♓24 | 1♒ 1 | 0♋14 | 21♈56 | 21♈15 | 19♍11 | 12♓20 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n34 | 18n12 | 4n32 | 3s23 | 0n12 | 21n25 | 6n51 | 23s18 | 0n 3 | 23n33 | 0n15 | 11s51 | 1s26 | 9s13 | 0s44 | 19s45 | 0n17 | 19n 2 | 4s28 | 8n36 | 8n53 | 8n23 | 2s57 | 4n55 |
| W 2 | 4 57 | 13 25 | 3 53 | 3 37 | 0s 3 | 21 27 | 6 54 | 23 21 | 0 2 | 23 33 | 0 15 | 11 49 | 1 26 | 9 12 | 0 44 | 19 45 | 0 17 | 19 2 | 4 27 | 8 35 | 8 52 | 8 20 | 2 55 | 4 55 |
| T 3 | 5 20 | 8 10 | 3 4 | 3 48 | 0 17 | 21 28 | 6 56 | 23 24 | 0s 0 | 23 33 | 0 15 | 11 47 | 1 27 | 9 11 | 0 44 | 19 45 | 0 17 | 19 2 | 4 27 | 8 35 | 8 50 | 8 17 | 2 54 | 4 55 |
| F 4 | 5 43 | 2 37 | 2 7 | 3 57 | 0 31 | 21 28 | 6 58 | 23 26 | 0 2 | 23 32 | 0 15 | 11 45 | 1 27 | 9 10 | 0 44 | 19 45 | 0 17 | 19 2 | 4 27 | 8 34 | 8 49 | 8 14 | 2 53 | 4 55 |
| S 5 | 6 5 | 3s 4 | 1 5 | 4 3 | 0 44 | 21 26 | 7 0 | 23 29 | 0 4 | 23 32 | 0 15 | 11 43 | 1 27 | 9 9 | 0 44 | 19 44 | 0 17 | 19 2 | 4 27 | 8 34 | 8 48 | 8 10 | 2 51 | 4 55 |
| S 6 | 6 28 | 8 41 | 0s 1 | 4 6 | 0 56 | 21 23 | 7 1 | 23 31 | 0 5 | 23 32 | 0 15 | 11 41 | 1 27 | 9 7 | 0 44 | 19 44 | 0 17 | 19 2 | 4 27 | 8 34 | 8 47 | 8 7 | 2 50 | 4 56 |
| M 7 | 6 51 | 14 4 | 1 8 | 4 7 | 1 8 | 21 19 | 7 1 | 23 34 | 0 7 | 23 31 | 0 15 | 11 39 | 1 27 | 9 6 | 0 44 | 19 44 | 0 17 | 19 2 | 4 27 | 8 34 | 8 46 | 8 4 | 2 49 | 4 56 |
| T 8 | 7 13 | 18 57 | 2 13 | 4 6 | 1 20 | 21 13 | 7 1 | 23 36 | 0 9 | 23 31 | 0 15 | 11 37 | 1 27 | 9 5 | 0 44 | 19 44 | 0 17 | 19 3 | 4 26 | 8 34 | 8 45 | 8 1 | 2 47 | 4 56 |
| W 9 | 7 36 | 23 7 | 3 12 | 4 3 | 1 30 | 21 6 | 7 0 | 23 39 | 0 11 | 23 31 | 0 16 | 11 35 | 1 28 | 9 4 | 0 44 | 19 44 | 0 17 | 19 3 | 4 26 | 8 34 | 8 43 | 7 57 | 2 46 | 4 56 |
| T 10 | 7 58 | 26 15 | 4 3 | 3 57 | 1 40 | 20 58 | 6 59 | 23 41 | 0 13 | 23 30 | 0 16 | 11 33 | 1 28 | 9 3 | 0 44 | 19 43 | 0 17 | 19 3 | 4 26 | 8 34 | 8 42 | 7 54 | 2 45 | 4 56 |
| F 11 | 8 20 | 28 5 | 4 42 | 3 49 | 1 49 | 20 48 | 6 57 | 23 43 | 0 15 | 23 30 | 0 16 | 11 31 | 1 28 | 9 2 | 0 44 | 19 43 | 0 17 | 19 3 | 4 26 | 8 35 | 8 41 | 7 51 | 2 43 | 4 56 |
| S 12 | 8 42 | 28 22 | 5 8 | 3 39 | 1 58 | 20 36 | 6 54 | 23 46 | 0 17 | 23 30 | 0 16 | 11 29 | 1 28 | 9 1 | 0 44 | 19 43 | 0 17 | 19 3 | 4 26 | 8 35 | 8 40 | 7 47 | 2 42 | 4 56 |
| S 13 | 9 4 | 26 59 | 5 17 | 3 27 | 2 6 | 20 24 | 6 50 | 23 48 | 0 19 | 23 29 | 0 16 | 11 27 | 1 28 | 9 0 | 0 45 | 19 43 | 0 17 | 19 3 | 4 26 | 8 35 | 8 39 | 7 44 | 2 41 | 4 56 |
| M14 | 9 25 | 23 57 | 5 9 | 3 13 | 2 13 | 20 10 | 6 45 | 23 50 | 0 21 | 23 29 | 0 16 | 11 25 | 1 28 | 8 59 | 0 45 | 19 43 | 0 17 | 19 3 | 4 26 | 8 35 | 8 37 | 7 41 | 2 39 | 4 56 |
| T 15 | 9 47 | 19 26 | 4 42 | 2 57 | 2 20 | 19 54 | 6 40 | 23 52 | 0 23 | 23 29 | 0 16 | 11 23 | 1 29 | 8 58 | 0 45 | 19 43 | 0 17 | 19 4 | 4 25 | 8 35 | 8 36 | 7 38 | 2 38 | 4 57 |
| W16 | 10 8 | 13 42 | 3 56 | 2 40 | 2 26 | 19 37 | 6 34 | 23 54 | 0 25 | 23 28 | 0 16 | 11 22 | 1 29 | 8 57 | 0 45 | 19 43 | 0 17 | 19 4 | 4 25 | 8 35 | 8 35 | 7 34 | 2 37 | 4 57 |
| T 17 | 10 29 | 7 6 | 2 54 | 2 20 | 2 31 | 19 19 | 6 28 | 23 57 | 0 28 | 23 28 | 0 16 | 11 20 | 1 29 | 8 56 | 0 45 | 19 42 | 0 17 | 19 4 | 4 25 | 8 35 | 8 34 | 7 31 | 2 36 | 4 57 |
| F 18 | 10 50 | 0 4 | 1 40 | 1 59 | 2 35 | 19 0 | 6 20 | 23 59 | 0 30 | 23 27 | 0 16 | 11 18 | 1 29 | 8 56 | 0 45 | 19 42 | 0 17 | 19 4 | 4 25 | 8 35 | 8 33 | 7 28 | 2 34 | 4 57 |
| S 19 | 11 11 | 7n 0 | 0 19 | 1 36 | 2 39 | 18 39 | 6 12 | 24 1 | 0 32 | 23 27 | 0 16 | 11 16 | 1 29 | 8 55 | 0 45 | 19 42 | 0 17 | 19 4 | 4 25 | 8 35 | 8 31 | 7 24 | 2 33 | 4 57 |
| S 20 | 11 32 | 13 38 | 1n 3 | 1 12 | 2 43 | 18 18 | 6 3 | 24 3 | 0 34 | 23 26 | 0 16 | 11 15 | 1 29 | 8 54 | 0 45 | 19 42 | 0 17 | 19 4 | 4 25 | 8 35 | 8 30 | 7 21 | 2 32 | 4 57 |
| M21 | 11 52 | 19 25 | 2 19 | 0 46 | 2 46 | 17 56 | 5 53 | 24 5 | 0 37 | 23 26 | 0 16 | 11 13 | 1 30 | 8 53 | 0 45 | 19 42 | 0 17 | 19 4 | 4 25 | 8 35 | 8 29 | 7 18 | 2 31 | 4 58 |
| T 22 | 12 12 | 23 58 | 3 25 | 0 19 | 2 48 | 17 33 | 5 43 | 24 7 | 0 39 | 23 25 | 0 16 | 11 11 | 1 30 | 8 52 | 0 45 | 19 42 | 0 17 | 19 5 | 4 24 | 8 35 | 8 28 | 7 15 | 2 29 | 4 58 |
| W23 | 12 32 | 27 0 | 4 16 | 0n 9 | 2 49 | 17 9 | 5 31 | 24 10 | 0 42 | 23 25 | 0 16 | 11 10 | 1 30 | 8 51 | 0 45 | 19 42 | 0 17 | 19 5 | 4 24 | 8 34 | 8 27 | 7 11 | 2 28 | 4 58 |
| T 24 | 12 52 | 28 21 | 4 52 | 0 39 | 2 50 | 16 45 | 5 20 | 24 12 | 0 44 | 23 24 | 0 16 | 11 8 | 1 30 | 8 50 | 0 45 | 19 42 | 0 17 | 19 5 | 4 24 | 8 33 | 8 26 | 7 8 | 2 27 | 4 58 |
| F 25 | 13 12 | 28 5 | 5 12 | 1 11 | 2 51 | 16 20 | 5 8 | 24 14 | 0 47 | 23 23 | 0 17 | 11 6 | 1 30 | 8 49 | 0 45 | 19 42 | 0 17 | 19 5 | 4 24 | 8 33 | 8 24 | 7 5 | 2 26 | 4 58 |
| S 26 | 13 31 | 26 21 | 5 16 | 1 43 | 2 50 | 15 56 | 4 55 | 24 16 | 0 49 | 23 23 | 0 17 | 11 5 | 1 31 | 8 49 | 0 45 | 19 42 | 0 17 | 19 5 | 4 24 | 8 33 | 8 23 | 7 1 | 2 25 | 4 58 |
| S 27 | 13 51 | 23 24 | 5 5 | 2 17 | 2 50 | 15 31 | 4 42 | 24 19 | 0 52 | 23 22 | 0 17 | 11 3 | 1 31 | 8 48 | 0 45 | 19 42 | 0 17 | 19 5 | 4 24 | 8 33 | 8 22 | 6 58 | 2 24 | 4 58 |
| M28 | 14 10 | 19 29 | 4 41 | 2 52 | 2 48 | 15 6 | 4 28 | 24 21 | 0 55 | 23 22 | 0 17 | 11 2 | 1 31 | 8 47 | 0 45 | 19 42 | 0 17 | 19 5 | 4 24 | 8 33 | 8 21 | 6 55 | 2 22 | 4 59 |
| T 29 | 14 28 | 14 51 | 4 5 | 3 28 | 2 46 | 14 41 | 4 15 | 24 23 | 0 58 | 23 21 | 0 17 | 11 0 | 1 31 | 8 46 | 0 45 | 19 42 | 0 17 | 19 6 | 4 23 | 8 33 | 8 20 | 6 51 | 2 21 | 4 59 |
| W30 | 14n47 | 9n42 | 3n19 | 4n 5 | 2s44 | 14n17 | 4n 1 | 24s26 | 1s 0 | 23n20 | 0n17 | 10s59 | 1s31 | 8s45 | 0s45 | 19s42 | 0n17 | 19n 6 | 4s23 | 8n34 | 8n18 | 6n48 | 2s20 | 4n59 |

Julian Day Number = 2331105.5, Delta T = 29.58 sec
Ecliptic obliquity = 23°29'05, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'15, Lahiri = 19°15'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## MAY 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 36 38 | 10♉46'34 | 24♍56 | 18♈18 | 26°R50 | 4♑13 | 10♋48 | 5♓26 | 9♓26 | 1♒ 1 | 0♋15 | 21♈57 | 21♈12 | 19♍18 | 12♓23 | T 1 |
| F 2 | 14 40 34 | 11°44'36 | 6♎49 | 19°53 | 26♈22 | 4°26 | 10°58 | 5°30 | 9°28 | 1° 1 | 0°16 | 21°59 | 21° 9 | 19°25 | 12°25 | F 2 |
| S 3 | 14 44 31 | 12°42'36 | 18°48 | 21°30 | 25°57 | 4°38 | 11° 8 | 5°34 | 9°30 | 1°R 1 | 0°17 | 21°R59 | 21° 6 | 19°31 | 12°27 | S 3 |
| S 4 | 14 48 27 | 13°40'34 | 0♏57 | 23° 8 | 25°34 | 4°50 | 11°17 | 5°39 | 9°32 | 1° 1 | 0°18 | 21°59 | 21° 3 | 19°38 | 12°30 | S 4 |
| M 5 | 14 52 24 | 14°38'31 | 13°17 | 24°49 | 25°13 | 5° 1 | 11°27 | 5°43 | 9°33 | 1° 1 | 0°19 | 21°58 | 20°59 | 19°45 | 12°32 | M 5 |
| T 6 | 14 56 20 | 15°36'27 | 25°51 | 26°32 | 24°54 | 5°12 | 11°37 | 5°47 | 9°35 | 1° 0 | 0°20 | 21°55 | 20°56 | 19°51 | 12°34 | T 6 |
| W 7 | 15 0 17 | 16°34'21 | 8♐38 | 28°16 | 24°37 | 5°22 | 11°47 | 5°50 | 9°37 | 1° 0 | 0°21 | 21°52 | 20°53 | 19°58 | 12°36 | W 7 |
| T 8 | 15 4 13 | 17°32'13 | 21°39 | 0♑ 3 | 24°23 | 5°31 | 11°57 | 5°54 | 9°39 | 1° 0 | 0°22 | 21°48 | 20°50 | 20° 5 | 12°38 | T 8 |
| F 9 | 15 8 10 | 18°30'04 | 4♑54 | 1°51 | 24°12 | 5°40 | 12° 8 | 5°58 | 9°41 | 1° 0 | 0°23 | 21°44 | 20°47 | 20°11 | 12°40 | F 9 |
| S 10 | 15 12 7 | 19°27'54 | 18°22 | 3°42 | 24° 3 | 5°48 | 12°18 | 6° 2 | 9°42 | 1° 0 | 0°25 | 21°41 | 20°43 | 20°18 | 12°42 | S 10 |
| S 11 | 15 16 3 | 20°25'43 | 2♒ 4 | 5°34 | 23°56 | 5°56 | 12°29 | 6° 5 | 9°44 | 1° 0 | 0°26 | 21°38 | 20°40 | 20°25 | 12°44 | S 11 |
| M12 | 15 20 0 | 21°23'31 | 15°57 | 7°29 | 23°52 | 6° 3 | 12°39 | 6° 9 | 9°46 | 0°59 | 0°27 | 21°D37 | 20°37 | 20°31 | 12°46 | M12 |
| T 13 | 15 23 56 | 22°21'17 | 0♓ 2 | 9°25 | 23°D50 | 6° 9 | 12°50 | 6°12 | 9°47 | 0°59 | 0°28 | 21°37 | 20°34 | 20°38 | 12°48 | T 13 |
| W14 | 15 27 53 | 23°19'02 | 14°16 | 11°23 | 23°50 | 6°14 | 13° 0 | 6°15 | 9°49 | 0°59 | 0°29 | 21°38 | 20°31 | 20°45 | 12°50 | W14 |
| T 15 | 15 31 49 | 24°16'46 | 28°39 | 13°24 | 23°53 | 6°19 | 13°11 | 6°19 | 9°50 | 0°58 | 0°30 | 21°40 | 20°28 | 20°51 | 12°52 | T 15 |
| F 16 | 15 35 46 | 25°14'29 | 13♈ 6 | 15°26 | 23°58 | 6°23 | 13°22 | 6°22 | 9°52 | 0°58 | 0°32 | 21°41 | 20°24 | 20°58 | 12°53 | F 16 |
| S 17 | 15 39 42 | 26°12'11 | 27°35 | 17°29 | 24° 6 | 6°27 | 13°33 | 6°25 | 9°53 | 0°57 | 0°33 | 21°R41 | 20°21 | 21° 5 | 12°55 | S 17 |
| S 18 | 15 43 39 | 27° 9'52 | 12♉ 0 | 19°35 | 24°15 | 6°29 | 13°44 | 6°28 | 9°54 | 0°57 | 0°34 | 21°39 | 20°18 | 21°11 | 12°57 | S 18 |
| M19 | 15 47 36 | 28° 7'32 | 26°15 | 21°42 | 24°27 | 6°31 | 13°55 | 6°31 | 9°56 | 0°56 | 0°35 | 21°36 | 20°15 | 21°18 | 12°58 | M19 |
| T 20 | 15 51 32 | 29° 5'10 | 10♊17 | 23°50 | 24°41 | 6°32 | 14° 6 | 6°33 | 9°57 | 0°56 | 0°37 | 21°31 | 20°12 | 21°25 | 13° 0 | T 20 |
| W21 | 15 55 29 | 0♊ 2'48 | 24° 0 | 25°59 | 24°56 | 6°R33 | 14°18 | 6°36 | 9°58 | 0°55 | 0°38 | 21°26 | 20° 9 | 21°31 | 13° 1 | W21 |
| T 22 | 15 59 25 | 1° 0'24 | 7♋22 | 28°10 | 25°14 | 6°33 | 14°29 | 6°39 | 9°59 | 0°55 | 0°39 | 21°19 | 20° 5 | 21°38 | 13° 3 | T 22 |
| F 23 | 16 3 22 | 1°57'58 | 20°22 | 0♊21 | 25°33 | 6°32 | 14°40 | 6°41 | 10° 0 | 0°54 | 0°41 | 21°13 | 20° 2 | 21°45 | 13° 4 | F 23 |
| S 24 | 16 7 18 | 2°55'31 | 3♌ 1 | 2°33 | 25°54 | 6°30 | 14°52 | 6°44 | 10° 1 | 0°54 | 0°42 | 21° 8 | 19°59 | 21°51 | 13° 5 | S 24 |
| S 25 | 16 11 15 | 3°53'03 | 15°21 | 4°45 | 26°17 | 6°27 | 15° 3 | 6°46 | 10° 2 | 0°53 | 0°43 | 21° 4 | 19°56 | 21°58 | 13° 6 | S 25 |
| M26 | 16 15 12 | 4°50'34 | 27°26 | 6°56 | 26°42 | 6°24 | 15°15 | 6°48 | 10° 3 | 0°52 | 0°45 | 21° 3 | 19°53 | 22° 5 | 13° 8 | M26 |
| T 27 | 16 19 8 | 5°48'03 | 9♍22 | 9° 8 | 27° 8 | 6°20 | 15°27 | 6°50 | 10° 4 | 0°51 | 0°46 | 21°D 2 | 19°49 | 22°11 | 13° 9 | T 27 |
| W28 | 16 23 5 | 6°45'31 | 21°12 | 11°19 | 27°36 | 6°15 | 15°38 | 6°52 | 10° 5 | 0°51 | 0°47 | 21° 3 | 19°46 | 22°18 | 13°10 | W28 |
| T 29 | 16 27 1 | 7°42'57 | 3♎ 1 | 13°30 | 28° 5 | 6°10 | 15°50 | 6°54 | 10° 6 | 0°50 | 0°49 | 21° 5 | 19°43 | 22°25 | 13°11 | T 29 |
| F 30 | 16 30 58 | 8°40'23 | 14°56 | 15°39 | 28°36 | 6° 3 | 16° 2 | 6°56 | 10° 7 | 0°49 | 0°50 | 21°R 6 | 19°40 | 22°31 | 13°12 | F 30 |
| S 31 | 16 34 54 | 9♊37'47 | 27♎ 0 | 17♊47 | 29♈ 8 | 5♑56 | 16♋14 | 6♓58 | 10♓ 7 | 0♒48 | 0♋51 | 21♈ 6 | 19♈37 | 22♍38 | 13♓13 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n 5 | 4n13 | 2n24 | 4n43 | 2s41 | 13n53 | 3n47 | 24s28 | 1s 3 | 23n19 | 0n17 | 10s57 | 1s31 | 8s45 | 0s45 | 19s42 | 0n17 | 19n 6 | 4s23 | 8n34 | 8n17 | 6n45 | 2s19 | 4n59 |
| F 2 | 15 23 | 1s26 | 1 23 | 5 22 | 2 37 | 13 29 | 3 32 | 24 31 | 1 6 | 23 19 | 0 17 | 10 56 | 1 32 | 8 44 | 0 45 | 19 42 | 0 17 | 19 6 | 4 23 | 8 35 | 8 16 | 6 42 | 2 18 | 4 59 |
| S 3 | 15 41 | 7 6 | 0 18 | 6 2 | 2 33 | 13 7 | 3 18 | 24 33 | 1 9 | 23 18 | 0 17 | 10 55 | 1 32 | 8 43 | 0 45 | 19 42 | 0 17 | 19 6 | 4 23 | 8 35 | 8 15 | 6 38 | 2 17 | 5 0 |
| S 4 | 15 58 | 12 36 | 0s49 | 6 43 | 2 28 | 12 45 | 3 3 | 24 36 | 1 12 | 23 17 | 0 17 | 10 53 | 1 32 | 8 43 | 0 45 | 19 42 | 0 17 | 19 6 | 4 23 | 8 35 | 8 14 | 6 35 | 2 16 | 5 0 |
| M 5 | 16 16 | 17 41 | 1 55 | 7 25 | 2 23 | 12 24 | 2 49 | 24 39 | 1 15 | 23 16 | 0 17 | 10 52 | 1 32 | 8 42 | 0 45 | 19 42 | 0 17 | 19 6 | 4 23 | 8 34 | 8 12 | 6 32 | 2 15 | 5 0 |
| T 6 | 16 33 | 22 6 | 2 56 | 8 7 | 2 17 | 12 3 | 2 35 | 24 41 | 1 18 | 23 16 | 0 17 | 10 51 | 1 32 | 8 41 | 0 45 | 19 42 | 0 17 | 19 6 | 4 23 | 8 33 | 8 11 | 6 28 | 2 14 | 5 0 |
| W 7 | 16 49 | 25 33 | 3 49 | 8 50 | 2 11 | 11 44 | 2 21 | 24 44 | 1 22 | 23 15 | 0 17 | 10 49 | 1 33 | 8 41 | 0 45 | 19 42 | 0 17 | 19 7 | 4 22 | 8 32 | 8 10 | 6 25 | 2 13 | 5 0 |
| T 8 | 17 6 | 27 44 | 4 31 | 9 34 | 2 4 | 11 26 | 2 7 | 24 47 | 1 25 | 23 14 | 0 17 | 10 48 | 1 33 | 8 40 | 0 45 | 19 42 | 0 17 | 19 7 | 4 22 | 8 31 | 8 9 | 6 22 | 2 12 | 5 1 |
| F 9 | 17 22 | 28 23 | 5 0 | 10 19 | 1 57 | 11 9 | 1 53 | 24 50 | 1 28 | 23 13 | 0 17 | 10 47 | 1 33 | 8 39 | 0 45 | 19 42 | 0 17 | 19 7 | 4 22 | 8 29 | 8 8 | 6 18 | 2 11 | 5 1 |
| S 10 | 17 38 | 27 23 | 5 13 | 11 3 | 1 49 | 10 53 | 1 39 | 24 53 | 1 32 | 23 12 | 0 17 | 10 46 | 1 33 | 8 39 | 0 45 | 19 42 | 0 17 | 19 7 | 4 22 | 8 28 | 8 6 | 6 15 | 2 10 | 5 1 |
| S 11 | 17 53 | 24 44 | 5 8 | 11 49 | 1 41 | 10 38 | 1 26 | 24 56 | 1 35 | 23 11 | 0 18 | 10 45 | 1 34 | 8 38 | 0 45 | 19 42 | 0 17 | 19 7 | 4 22 | 8 27 | 8 5 | 6 12 | 2 9 | 5 1 |
| M12 | 18 9 | 20 37 | 4 46 | 12 34 | 1 33 | 10 24 | 1 13 | 24 59 | 1 38 | 23 10 | 0 18 | 10 44 | 1 34 | 8 38 | 0 45 | 19 42 | 0 17 | 19 7 | 4 22 | 8 27 | 8 4 | 6 8 | 2 8 | 5 1 |
| T 13 | 18 24 | 15 19 | 4 6 | 13 20 | 1 24 | 10 12 | 1 0 | 25 2 | 1 42 | 23 9 | 0 18 | 10 42 | 1 34 | 8 37 | 0 45 | 19 42 | 0 17 | 19 7 | 4 22 | 8 27 | 8 3 | 6 5 | 2 7 | 5 2 |
| W14 | 18 38 | 9 8 | 3 10 | 14 6 | 1 15 | 10 0 | 0 48 | 25 6 | 1 45 | 23 8 | 0 18 | 10 41 | 1 34 | 8 36 | 0 46 | 19 42 | 0 17 | 19 7 | 4 22 | 8 27 | 8 2 | 6 2 | 2 6 | 5 2 |
| T 15 | 18 53 | 2 25 | 2 3 | 14 51 | 1 5 | 9 50 | 0 36 | 25 9 | 1 49 | 23 7 | 0 18 | 10 40 | 1 34 | 8 36 | 0 46 | 19 42 | 0 17 | 19 7 | 4 22 | 8 27 | 8 0 | 5 58 | 2 6 | 5 2 |
| F 16 | 19 7 | 4n28 | 0 47 | 15 37 | 0 55 | 9 41 | 0 24 | 25 12 | 1 53 | 23 6 | 0 18 | 10 39 | 1 35 | 8 35 | 0 46 | 19 42 | 0 17 | 19 8 | 4 21 | 8 28 | 7 59 | 5 55 | 2 5 | 5 2 |
| S 17 | 19 20 | 11 8 | 0n32 | 16 22 | 0 45 | 9 33 | 0 12 | 25 16 | 1 56 | 23 5 | 0 18 | 10 39 | 1 35 | 8 35 | 0 46 | 19 42 | 0 17 | 19 8 | 4 21 | 8 28 | 7 58 | 5 52 | 2 4 | 5 2 |
| S 18 | 19 34 | 17 11 | 1 49 | 17 6 | 0 35 | 9 27 | 0 1 | 25 20 | 2 0 | 23 4 | 0 18 | 10 38 | 1 35 | 8 34 | 0 46 | 19 42 | 0 17 | 19 8 | 4 21 | 8 27 | 7 57 | 5 48 | 2 3 | 5 3 |
| M19 | 19 47 | 22 13 | 2 57 | 17 50 | 0 24 | 9 21 | 0s 9 | 25 23 | 2 4 | 23 3 | 0 18 | 10 37 | 1 35 | 8 34 | 0 46 | 19 43 | 0 17 | 19 8 | 4 21 | 8 26 | 7 56 | 5 45 | 2 2 | 5 3 |
| T 20 | 20 0 | 25 53 | 3 54 | 18 33 | 0 13 | 9 16 | 0 20 | 25 27 | 2 8 | 23 2 | 0 18 | 10 36 | 1 35 | 8 34 | 0 46 | 19 43 | 0 17 | 19 8 | 4 21 | 8 24 | 7 54 | 5 42 | 2 1 | 5 3 |
| W21 | 20 12 | 27 56 | 4 36 | 19 15 | 0 3 | 9 13 | 0 30 | 25 31 | 2 12 | 23 1 | 0 18 | 10 35 | 1 36 | 8 33 | 0 46 | 19 43 | 0 17 | 19 8 | 4 21 | 8 22 | 7 53 | 5 38 | 2 1 | 5 3 |
| T 22 | 20 24 | 28 17 | 5 1 | 19 55 | 0n 8 | 9 10 | 0 39 | 25 35 | 2 16 | 23 0 | 0 18 | 10 34 | 1 36 | 8 33 | 0 46 | 19 43 | 0 17 | 19 8 | 4 21 | 8 20 | 7 52 | 5 35 | 2 0 | 5 4 |
| F 23 | 20 36 | 27 3 | 5 10 | 20 34 | 0 18 | 9 8 | 0 49 | 25 39 | 2 20 | 22 59 | 0 18 | 10 34 | 1 36 | 8 32 | 0 46 | 19 43 | 0 17 | 19 8 | 4 21 | 8 18 | 7 51 | 5 31 | 1 59 | 5 4 |
| S 24 | 20 47 | 24 26 | 5 3 | 21 11 | 0 29 | 9 8 | 0 58 | 25 43 | 2 24 | 22 57 | 0 18 | 10 33 | 1 36 | 8 32 | 0 46 | 19 43 | 0 17 | 19 8 | 4 21 | 8 16 | 7 50 | 5 28 | 1 58 | 5 4 |
| S 25 | 20 58 | 20 46 | 4 43 | 21 45 | 0 39 | 9 8 | 1 6 | 25 47 | 2 28 | 22 56 | 0 18 | 10 32 | 1 37 | 8 32 | 0 46 | 19 43 | 0 17 | 19 8 | 4 20 | 8 14 | 7 48 | 5 25 | 1 58 | 5 4 |
| M26 | 21 9 | 16 17 | 4 10 | 22 18 | 0 48 | 9 9 | 1 15 | 25 51 | 2 32 | 22 55 | 0 18 | 10 32 | 1 37 | 8 31 | 0 46 | 19 43 | 0 17 | 19 9 | 4 20 | 8 14 | 7 47 | 5 21 | 1 57 | 5 5 |
| T 27 | 21 19 | 11 16 | 3 27 | 22 49 | 0 58 | 9 11 | 1 23 | 25 56 | 2 36 | 22 54 | 0 19 | 10 31 | 1 37 | 8 31 | 0 46 | 19 44 | 0 17 | 19 9 | 4 20 | 8 13 | 7 46 | 5 18 | 1 56 | 5 5 |
| W28 | 21 29 | 5 52 | 2 35 | 23 17 | 1 7 | 9 14 | 1 30 | 26 0 | 2 40 | 22 52 | 0 19 | 10 31 | 1 37 | 8 31 | 0 46 | 19 44 | 0 17 | 19 9 | 4 20 | 8 14 | 7 45 | 5 15 | 1 56 | 5 5 |
| T 29 | 21 38 | 0 16 | 1 36 | 23 42 | 1 15 | 9 18 | 1 38 | 26 5 | 2 44 | 22 51 | 0 19 | 10 30 | 1 37 | 8 30 | 0 46 | 19 44 | 0 17 | 19 9 | 4 20 | 8 14 | 7 44 | 5 11 | 1 55 | 5 5 |
| F 30 | 21 47 | 5s23 | 0 33 | 24 5 | 1 23 | 9 22 | 1 45 | 26 9 | 2 48 | 22 50 | 0 19 | 10 30 | 1 38 | 8 30 | 0 46 | 19 44 | 0 17 | 19 9 | 4 20 | 8 15 | 7 42 | 5 8 | 1 55 | 5 5 |
| S 31 | 21n56 | 10s55 | 0s32 | 24n25 | 1n30 | 9n27 | 1s51 | 26s14 | 2s53 | 22n48 | 0n19 | 10s29 | 1s38 | 8s30 | 0s46 | 19s44 | 0n17 | 19n 9 | 4s20 | 8n15 | 7n41 | 5n 5 | 1s54 | 5n 6 |

Julian Day Number = 2331135.5, Delta T = 29.53 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'19, Lahiri = 19°15'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## JUNE 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 38 51 | 10♊35'10 | 9♏18 | 19♊53 | 29♈41 | 5°R49 | 16♋26 | 7♓ 0 | 10♓ 8 | 0°R47 | 0♋53 | 21°R 4 | 19♈34 | 22♍45 | 13♓14 | S 1 |
| M 2 | 16 42 47 | 11°32'32 | 21°51 | 21°58 | 0♉16 | 5♉40 | 16°38 | 7° 1 | 10° 9 | 0♒46 | 0°54 | 21♈ 0 | 19°30 | 22°51 | 13°14 | M 2 |
| T 3 | 16 46 44 | 12°29'53 | 4♐42 | 24° 0 | 0°52 | 5°31 | 16°50 | 7° 3 | 10° 9 | 0°46 | 0°56 | 20°54 | 19°27 | 22°58 | 13°15 | T 3 |
| W 4 | 16 50 41 | 13°27'14 | 17°51 | 26° 1 | 1°29 | 5°21 | 17° 2 | 7° 4 | 10°10 | 0°45 | 0°57 | 20°47 | 19°24 | 23° 5 | 13°16 | W 4 |
| T 5 | 16 54 37 | 14°24'34 | 1♉16 | 28° 0 | 2° 8 | 5°11 | 17°15 | 7° 5 | 10°10 | 0°44 | 0°59 | 20°38 | 19°21 | 23°11 | 13°17 | T 5 |
| F 6 | 16 58 34 | 15°21'53 | 14°56 | 29°57 | 2°47 | 4°59 | 17°27 | 7° 6 | 10°11 | 0°43 | 1° 0 | 20°29 | 19°18 | 23°18 | 13°17 | F 6 |
| S 7 | 17 2 30 | 16°19'11 | 28°47 | 1♋51 | 3°28 | 4°48 | 17°39 | 7° 8 | 10°11 | 0°42 | 1° 1 | 20°21 | 19°15 | 23°25 | 13°18 | S 7 |
| S 8 | 17 6 27 | 17°16'29 | 12♒47 | 3°43 | 4° 9 | 4°35 | 17°51 | 7° 9 | 10°11 | 0°41 | 1° 3 | 20°15 | 19°11 | 23°31 | 13°18 | S 8 |
| M 9 | 17 10 23 | 18°13'47 | 26°52 | 5°32 | 4°52 | 4°22 | 18° 4 | 7° 9 | 10°12 | 0°40 | 1° 4 | 20°11 | 19° 8 | 23°38 | 13°19 | M 9 |
| T 10 | 17 14 20 | 19°11'04 | 11♓ 0 | 7°20 | 5°35 | 4° 8 | 18°16 | 7°10 | 10°12 | 0°38 | 1° 6 | 20° 9 | 19° 5 | 23°45 | 13°19 | T 10 |
| W11 | 17 18 16 | 20° 8'21 | 25° 9 | 9° 4 | 6°20 | 3°54 | 18°29 | 7°11 | 10°12 | 0°37 | 1° 7 | 20°D 9 | 19° 2 | 23°51 | 13°19 | W11 |
| T 12 | 17 22 13 | 21° 5'37 | 9♈17 | 10°47 | 7° 5 | 3°39 | 18°41 | 7°11 | 10°12 | 0°36 | 1° 9 | 20° 9 | 18°59 | 23°58 | 13°20 | T 12 |
| F 13 | 17 26 10 | 22° 2'53 | 23°25 | 12°27 | 7°51 | 3°24 | 18°54 | 7°12 | 10°12 | 0°35 | 1°10 | 20°R 9 | 18°55 | 24° 5 | 13°20 | F 13 |
| S 14 | 17 30 6 | 23° 0'09 | 7♉29 | 14° 4 | 8°38 | 3° 8 | 19° 7 | 7°12 | 10°R12 | 0°34 | 1°12 | 20° 8 | 18°52 | 24°11 | 13°20 | S 14 |
| S 15 | 17 34 3 | 23°57'25 | 21°28 | 15°39 | 9°26 | 2°52 | 19°19 | 7°13 | 10°12 | 0°33 | 1°13 | 20° 5 | 18°49 | 24°18 | 13°20 | S 15 |
| M16 | 17 37 59 | 24°54'41 | 5♊19 | 17°11 | 10°14 | 2°35 | 19°32 | 7°13 | 10°12 | 0°31 | 1°14 | 19°59 | 18°46 | 24°25 | 13°R20 | M16 |
| T 17 | 17 41 56 | 25°51'56 | 18°59 | 18°41 | 11° 4 | 2°18 | 19°45 | 7°R13 | 10°12 | 0°30 | 1°16 | 19°50 | 18°43 | 24°31 | 13°20 | T 17 |
| W18 | 17 45 52 | 26°49'11 | 2♋25 | 20° 9 | 11°53 | 2° 1 | 19°57 | 7°13 | 10°12 | 0°29 | 1°17 | 19°40 | 18°40 | 24°38 | 13°20 | W18 |
| T 19 | 17 49 49 | 27°46'26 | 15°35 | 21°34 | 12°44 | 1°43 | 20°10 | 7°13 | 10°12 | 0°28 | 1°19 | 19°29 | 18°36 | 24°45 | 13°20 | T 19 |
| F 20 | 17 53 45 | 28°43'40 | 28°27 | 22°56 | 13°35 | 1°25 | 20°23 | 7°13 | 10°12 | 0°26 | 1°20 | 19°18 | 18°33 | 24°51 | 13°20 | F 20 |
| S 21 | 17 57 42 | 29°40'54 | 11♌ 0 | 24°16 | 14°27 | 1° 7 | 20°36 | 7°12 | 10°11 | 0°25 | 1°22 | 19° 8 | 18°30 | 24°58 | 13°19 | S 21 |
| S 22 | 18 1 39 | 0♋38'07 | 23°18 | 25°33 | 15°19 | 0°49 | 20°49 | 7°12 | 10°11 | 0°24 | 1°23 | 19° 0 | 18°27 | 25° 5 | 13°19 | S 22 |
| M23 | 18 5 35 | 1°35'20 | 5♍22 | 26°47 | 16°12 | 0°31 | 21° 2 | 7°11 | 10°11 | 0°22 | 1°25 | 18°55 | 18°24 | 25°11 | 13°19 | M23 |
| T 24 | 18 9 32 | 2°32'32 | 17°16 | 27°59 | 17° 6 | 0°12 | 21°15 | 7°11 | 10°10 | 0°21 | 1°26 | 18°52 | 18°21 | 25°18 | 13°18 | T 24 |
| W25 | 18 13 28 | 3°29'44 | 29° 6 | 29° 7 | 18° 0 | 29♐54 | 21°28 | 7°10 | 10°10 | 0°19 | 1°28 | 18°D51 | 18°17 | 25°24 | 13°18 | W25 |
| T 26 | 18 17 25 | 4°26'56 | 10♎55 | 0♌13 | 18°54 | 29°35 | 21°41 | 7° 9 | 10° 9 | 0°18 | 1°29 | 18°51 | 18°14 | 25°31 | 13°17 | T 26 |
| F 27 | 18 21 21 | 5°24'07 | 22°51 | 1°16 | 19°49 | 29°17 | 21°54 | 7° 8 | 10° 9 | 0°17 | 1°31 | 18°R51 | 18°11 | 25°38 | 13°17 | F 27 |
| S 28 | 18 25 18 | 6°21'18 | 4♏57 | 2°15 | 20°45 | 28°59 | 22° 7 | 7° 7 | 10° 8 | 0°15 | 1°32 | 18°50 | 18° 8 | 25°44 | 13°16 | S 28 |
| S 29 | 18 29 14 | 7°18'28 | 17°20 | 3°12 | 21°41 | 28°41 | 22°20 | 7° 6 | 10° 7 | 0°14 | 1°34 | 18°47 | 18° 5 | 25°51 | 13°15 | S 29 |
| M30 | 18 33 11 | 8♋15'39 | 0♐ 2 | 4♌ 5 | 22♉37 | 28♐23 | 22♋33 | 7♓ 5 | 10♓ 7 | 0♒12 | 1♋35 | 18♈42 | 18♈ 1 | 25♍58 | 13♓14 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 5 | 16s 9 | 1s37 | 24n42 | 1n37 | 9n33 | 1s58 | 26s18 | 2s57 | 22n47 | 0n19 | 10s29 | 1s38 | 8s30 | 0s46 | 19s45 | 0n17 | 19n 9 | 4s20 | 8n14 | 7n40 | 5n 1 | 1s54 | 5n 6 |
| M 2 | 22 13 | 20 48 | 2 38 | 24 57 | 1 42 | 9 39 | 2 4 | 26 23 | 3 1 | 22 46 | 0 19 | 10 28 | 1 38 | 8 30 | 0 46 | 19 45 | 0 17 | 19 9 | 4 20 | 8 13 | 7 39 | 4 58 | 1 53 | 5 6 |
| T 3 | 22 20 | 24 36 | 3 32 | 25 8 | 1 47 | 9 46 | 2 9 | 26 27 | 3 5 | 22 44 | 0 19 | 10 28 | 1 39 | 8 29 | 0 46 | 19 45 | 0 17 | 19 9 | 4 20 | 8 10 | 7 38 | 4 55 | 1 53 | 5 6 |
| W 4 | 22 27 | 27 12 | 4 17 | 25 17 | 1 52 | 9 54 | 2 15 | 26 32 | 3 10 | 22 43 | 0 19 | 10 28 | 1 39 | 8 29 | 0 46 | 19 45 | 0 17 | 19 9 | 4 20 | 8 8 | 7 36 | 4 51 | 1 52 | 5 7 |
| T 5 | 22 34 | 28 17 | 4 48 | 25 24 | 1 56 | 10 2 | 2 20 | 26 37 | 3 14 | 22 41 | 0 19 | 10 27 | 1 39 | 8 29 | 0 46 | 19 45 | 0 17 | 19 9 | 4 19 | 8 4 | 7 35 | 4 48 | 1 52 | 5 7 |
| F 6 | 22 41 | 27 41 | 5 4 | 25 28 | 1 58 | 10 11 | 2 25 | 26 41 | 3 18 | 22 40 | 0 19 | 10 27 | 1 39 | 8 29 | 0 46 | 19 46 | 0 17 | 19 9 | 4 19 | 8 1 | 7 34 | 4 44 | 1 51 | 5 7 |
| S 7 | 22 47 | 25 22 | 5 2 | 25 29 | 2 1 | 10 21 | 2 30 | 26 46 | 3 22 | 22 38 | 0 19 | 10 27 | 1 40 | 8 29 | 0 46 | 19 46 | 0 17 | 19 9 | 4 19 | 7 58 | 7 33 | 4 41 | 1 51 | 5 7 |
| S 8 | 22 52 | 21 31 | 4 42 | 25 28 | 2 2 | 10 30 | 2 34 | 26 51 | 3 27 | 22 37 | 0 19 | 10 27 | 1 40 | 8 29 | 0 46 | 19 46 | 0 17 | 19 10 | 4 19 | 7 56 | 7 32 | 4 38 | 1 50 | 5 8 |
| M 9 | 22 58 | 16 25 | 4 5 | 25 25 | 2 3 | 10 41 | 2 38 | 26 55 | 3 31 | 22 35 | 0 19 | 10 27 | 1 40 | 8 29 | 0 47 | 19 46 | 0 17 | 19 10 | 4 19 | 7 54 | 7 30 | 4 34 | 1 50 | 5 8 |
| T 10 | 23 3 | 10 26 | 3 13 | 25 19 | 2 3 | 10 51 | 2 42 | 27 0 | 3 35 | 22 33 | 0 19 | 10 27 | 1 40 | 8 29 | 0 47 | 19 47 | 0 17 | 19 10 | 4 19 | 7 53 | 7 29 | 4 31 | 1 50 | 5 8 |
| W11 | 23 7 | 3 55 | 2 10 | 25 12 | 2 2 | 11 3 | 2 46 | 27 4 | 3 39 | 22 32 | 0 20 | 10 27 | 1 41 | 8 29 | 0 47 | 19 47 | 0 17 | 19 10 | 4 19 | 7 53 | 7 28 | 4 28 | 1 49 | 5 8 |
| T 12 | 23 11 | 2n48 | 0 58 | 25 3 | 2 0 | 11 14 | 2 49 | 27 9 | 3 43 | 22 30 | 0 20 | 10 27 | 1 41 | 8 29 | 0 47 | 19 47 | 0 17 | 19 10 | 4 19 | 7 53 | 7 27 | 4 24 | 1 49 | 5 9 |
| F 13 | 23 15 | 9 23 | 0n17 | 24 52 | 1 58 | 11 26 | 2 53 | 27 13 | 3 47 | 22 28 | 0 20 | 10 27 | 1 41 | 8 29 | 0 47 | 19 47 | 0 17 | 19 10 | 4 19 | 7 54 | 7 26 | 4 21 | 1 49 | 5 9 |
| S 14 | 23 18 | 15 28 | 1 31 | 24 39 | 1 55 | 11 38 | 2 56 | 27 18 | 3 51 | 22 27 | 0 20 | 10 27 | 1 41 | 8 29 | 0 47 | 19 48 | 0 17 | 19 10 | 4 19 | 7 53 | 7 24 | 4 17 | 1 48 | 5 9 |
| S 15 | 23 21 | 20 43 | 2 39 | 24 25 | 1 52 | 11 51 | 2 58 | 27 22 | 3 55 | 22 25 | 0 20 | 10 27 | 1 41 | 8 29 | 0 47 | 19 48 | 0 17 | 19 10 | 4 19 | 7 52 | 7 23 | 4 14 | 1 48 | 5 9 |
| M16 | 23 23 | 24 46 | 3 36 | 24 9 | 1 47 | 12 3 | 3 1 | 27 26 | 3 59 | 22 23 | 0 20 | 10 27 | 1 42 | 8 29 | 0 47 | 19 48 | 0 17 | 19 10 | 4 19 | 7 50 | 7 22 | 4 11 | 1 48 | 5 10 |
| T 17 | 23 25 | 27 21 | 4 20 | 23 52 | 1 42 | 12 16 | 3 3 | 27 30 | 4 2 | 22 21 | 0 20 | 10 27 | 1 42 | 8 29 | 0 47 | 19 48 | 0 17 | 19 10 | 4 19 | 7 46 | 7 21 | 4 7 | 1 48 | 5 10 |
| W18 | 23 27 | 28 17 | 4 49 | 23 34 | 1 37 | 12 29 | 3 5 | 27 34 | 4 6 | 22 20 | 0 20 | 10 27 | 1 42 | 8 29 | 0 47 | 19 49 | 0 17 | 19 10 | 4 19 | 7 42 | 7 20 | 4 4 | 1 47 | 5 10 |
| T 19 | 23 28 | 27 34 | 5 2 | 23 15 | 1 31 | 12 43 | 3 7 | 27 38 | 4 10 | 22 18 | 0 20 | 10 28 | 1 42 | 8 29 | 0 47 | 19 49 | 0 17 | 19 10 | 4 19 | 7 38 | 7 18 | 4 0 | 1 47 | 5 10 |
| F 20 | 23 29 | 25 23 | 4 59 | 22 54 | 1 24 | 12 56 | 3 9 | 27 42 | 4 13 | 22 16 | 0 20 | 10 28 | 1 43 | 8 29 | 0 47 | 19 49 | 0 17 | 19 10 | 4 18 | 7 34 | 7 17 | 3 57 | 1 47 | 5 10 |
| S 21 | 23 29 | 22 0 | 4 41 | 22 33 | 1 16 | 13 10 | 3 11 | 27 45 | 4 17 | 22 14 | 0 20 | 10 28 | 1 43 | 8 29 | 0 47 | 19 49 | 0 17 | 19 10 | 4 18 | 7 30 | 7 16 | 3 54 | 1 47 | 5 11 |
| S 22 | 23 29 | 17 43 | 4 11 | 22 11 | 1 8 | 13 24 | 3 12 | 27 49 | 4 20 | 22 12 | 0 20 | 10 29 | 1 43 | 8 29 | 0 47 | 19 50 | 0 17 | 19 10 | 4 18 | 7 27 | 7 15 | 3 50 | 1 47 | 5 11 |
| M23 | 23 28 | 12 48 | 3 29 | 21 49 | 1 0 | 13 38 | 3 13 | 27 52 | 4 23 | 22 10 | 0 20 | 10 29 | 1 43 | 8 30 | 0 47 | 19 50 | 0 17 | 19 10 | 4 18 | 7 25 | 7 13 | 3 47 | 1 47 | 5 11 |
| T 24 | 23 28 | 7 29 | 2 39 | 21 26 | 0 51 | 13 52 | 3 14 | 27 55 | 4 26 | 22 8 | 0 20 | 10 30 | 1 44 | 8 30 | 0 47 | 19 50 | 0 17 | 19 10 | 4 18 | 7 24 | 7 12 | 3 43 | 1 47 | 5 11 |
| W25 | 23 26 | 1 56 | 1 43 | 21 2 | 0 41 | 14 6 | 3 15 | 27 58 | 4 29 | 22 6 | 0 21 | 10 30 | 1 44 | 8 30 | 0 47 | 19 51 | 0 17 | 19 10 | 4 18 | 7 24 | 7 11 | 3 40 | 1 47 | 5 12 |
| T 26 | 23 25 | 3s41 | 0 42 | 20 39 | 0 31 | 14 20 | 3 16 | 28 1 | 4 32 | 22 4 | 0 21 | 10 31 | 1 44 | 8 30 | 0 47 | 19 51 | 0 17 | 19 10 | 4 18 | 7 24 | 7 10 | 3 37 | 1 47 | 5 12 |
| F 27 | 23 22 | 9 14 | 0s21 | 20 15 | 0 20 | 14 35 | 3 16 | 28 4 | 4 35 | 22 2 | 0 21 | 10 31 | 1 44 | 8 30 | 0 47 | 19 51 | 0 17 | 19 10 | 4 18 | 7 24 | 7 9 | 3 33 | 1 47 | 5 12 |
| S 28 | 23 20 | 14 31 | 1 24 | 19 50 | 0 9 | 14 49 | 3 16 | 28 7 | 4 38 | 22 0 | 0 21 | 10 32 | 1 44 | 8 31 | 0 47 | 19 52 | 0 17 | 19 11 | 4 18 | 7 23 | 7 7 | 3 30 | 1 47 | 5 12 |
| S 29 | 23 17 | 19 21 | 2 25 | 19 26 | 0s 3 | 15 3 | 3 17 | 28 9 | 4 40 | 21 58 | 0 21 | 10 32 | 1 45 | 8 31 | 0 47 | 19 52 | 0 17 | 19 11 | 4 18 | 7 22 | 7 6 | 3 26 | 1 47 | 5 13 |
| M30 | 23n14 | 23s27 | 3s20 | 19n 2 | 0s15 | 15n18 | 3s17 | 28s11 | 4s43 | 21n56 | 0n21 | 10s33 | 1s45 | 8s31 | 0s47 | 19s52 | 0n17 | 19n11 | 4s18 | 7n20 | 7n 5 | 3n23 | 1s47 | 5n13 |

Julian Day Number = 2331166.5, Delta T = 29.48 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'23, Lahiri = 19°15'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## JULY 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 37 8 | 9♋12'49 | 13♐ 6 | 4♌55 | 23♉34 | 28°R 6 | 22♋46 | 7°R 4 | 10°R 6 | 0°R11 | 1♋37 | 18°R34 | 17♈58 | 26♍ 4 | 13°R14 | T 1 |
| W 2 | 18 41 4 | 10°10'00 | 26°32 | 5°41 | 24°32 | 27♐49 | 22°59 | 7♓ 2 | 10♓ 5 | 0♒ 9 | 1°38 | 18♈24 | 17°55 | 26°11 | 13♓13 | W 2 |
| T 3 | 18 45 1 | 11° 7'10 | 10♑20 | 6°24 | 25°29 | 27°32 | 23°13 | 7° 1 | 10° 4 | 0° 8 | 1°40 | 18°13 | 17°52 | 26°18 | 13°12 | T 3 |
| F 4 | 18 48 57 | 12° 4'21 | 24°25 | 7° 2 | 26°27 | 27°16 | 23°26 | 6°59 | 10° 3 | 0° 6 | 1°41 | 18° 1 | 17°49 | 26°24 | 13°11 | F 4 |
| S 5 | 18 52 54 | 13° 1'31 | 8♒42 | 7°37 | 27°26 | 27° 0 | 23°39 | 6°58 | 10° 2 | 0° 5 | 1°42 | 17°51 | 17°46 | 26°31 | 13°10 | S 5 |
| S 6 | 18 56 50 | 13°58'42 | 23° 7 | 8° 8 | 28°25 | 26°44 | 23°52 | 6°56 | 10° 1 | 0° 3 | 1°44 | 17°42 | 17°42 | 26°38 | 13° 9 | S 6 |
| M 7 | 19 0 47 | 14°55'54 | 7♓32 | 8°35 | 29°24 | 26°29 | 24° 6 | 6°54 | 10° 0 | 0° 2 | 1°45 | 17°36 | 17°39 | 26°44 | 13° 8 | M 7 |
| T 8 | 19 4 44 | 15°53'06 | 21°53 | 8°57 | 0♊24 | 26°15 | 24°19 | 6°52 | 9°59 | 0° 0 | 1°47 | 17°33 | 17°36 | 26°51 | 13° 7 | T 8 |
| W 9 | 19 8 40 | 16°50'18 | 6♈ 8 | 9°15 | 1°24 | 26° 1 | 24°32 | 6°50 | 9°58 | 29♑59 | 1°48 | 17°32 | 17°33 | 26°58 | 13° 5 | W 9 |
| T 10 | 19 12 37 | 17°47'31 | 20°14 | 9°28 | 2°24 | 25°48 | 24°45 | 6°48 | 9°57 | 29°57 | 1°50 | 17°32 | 17°30 | 27° 4 | 13° 4 | T 10 |
| F 11 | 19 16 33 | 18°44'45 | 4♉11 | 9°37 | 3°25 | 25°35 | 24°59 | 6°46 | 9°56 | 29°55 | 1°51 | 17°31 | 17°27 | 27°11 | 13° 3 | F 11 |
| S 12 | 19 20 30 | 19°41'59 | 17°58 | 9°R40 | 4°26 | 25°23 | 25°12 | 6°44 | 9°55 | 29°54 | 1°53 | 17°30 | 17°23 | 27°18 | 13° 1 | S 12 |
| S 13 | 19 24 26 | 20°39'15 | 1♊36 | 9°39 | 5°27 | 25°12 | 25°25 | 6°41 | 9°53 | 29°52 | 1°54 | 17°25 | 17°20 | 27°24 | 13° 0 | S 13 |
| M14 | 19 28 23 | 21°36'31 | 15° 4 | 9°33 | 6°29 | 25° 1 | 25°39 | 6°39 | 9°52 | 29°51 | 1°55 | 17°18 | 17°17 | 27°31 | 12°58 | M14 |
| T 15 | 19 32 19 | 22°33'47 | 28°20 | 9°23 | 7°31 | 24°51 | 25°52 | 6°36 | 9°51 | 29°49 | 1°57 | 17° 9 | 17°14 | 27°38 | 12°57 | T 15 |
| W16 | 19 36 16 | 23°31'05 | 11♋25 | 9° 7 | 8°33 | 24°42 | 26° 5 | 6°34 | 9°49 | 29°47 | 1°58 | 16°57 | 17°11 | 27°44 | 12°55 | W16 |
| T 17 | 19 40 13 | 24°28'22 | 24°16 | 8°47 | 9°35 | 24°33 | 26°19 | 6°31 | 9°48 | 29°46 | 2° 0 | 16°44 | 17° 7 | 27°51 | 12°54 | T 17 |
| F 18 | 19 44 9 | 25°25'41 | 6♌53 | 8°22 | 10°38 | 24°26 | 26°32 | 6°28 | 9°46 | 29°44 | 2° 1 | 16°31 | 17° 4 | 27°58 | 12°52 | F 18 |
| S 19 | 19 48 6 | 26°23'00 | 19°17 | 7°53 | 11°41 | 24°19 | 26°45 | 6°25 | 9°45 | 29°42 | 2° 2 | 16°20 | 17° 1 | 28° 4 | 12°50 | S 19 |
| S 20 | 19 52 2 | 27°20'19 | 1♍27 | 7°20 | 12°44 | 24°13 | 26°59 | 6°22 | 9°43 | 29°41 | 2° 4 | 16°11 | 16°58 | 28°11 | 12°49 | S 20 |
| M21 | 19 55 59 | 28°17'39 | 13°27 | 6°44 | 13°47 | 24° 8 | 27°12 | 6°19 | 9°42 | 29°39 | 2° 5 | 16° 4 | 16°55 | 28°18 | 12°47 | M21 |
| T 22 | 19 59 55 | 29°15'00 | 25°18 | 6° 4 | 14°51 | 24° 4 | 27°25 | 6°16 | 9°40 | 29°38 | 2° 6 | 16° 0 | 16°52 | 28°24 | 12°45 | T 22 |
| W23 | 20 3 52 | 0♎12'20 | 7♎ 6 | 5°23 | 15°55 | 24° 0 | 27°39 | 6°13 | 9°38 | 29°36 | 2° 8 | 15°59 | 16°48 | 28°31 | 12°43 | W23 |
| T 24 | 20 7 48 | 1° 9'42 | 18°54 | 4°39 | 16°59 | 23°58 | 27°52 | 6°10 | 9°37 | 29°34 | 2° 9 | 15°D58 | 16°45 | 28°37 | 12°41 | T 24 |
| F 25 | 20 11 45 | 2° 7'04 | 0♏49 | 3°55 | 18° 3 | 23°56 | 28° 5 | 6° 6 | 9°35 | 29°33 | 2°10 | 15°R58 | 16°42 | 28°44 | 12°39 | F 25 |
| S 26 | 20 15 42 | 3° 4'27 | 12°55 | 3°11 | 19° 8 | 23°55 | 28°19 | 6° 3 | 9°33 | 29°31 | 2°12 | 15°58 | 16°39 | 28°51 | 12°37 | S 26 |
| S 27 | 20 19 38 | 4° 1'50 | 25°17 | 2°27 | 20°12 | 23°D55 | 28°32 | 6° 0 | 9°31 | 29°29 | 2°13 | 15°56 | 16°36 | 28°57 | 12°35 | S 27 |
| M28 | 20 23 35 | 4°59'14 | 8♐ 2 | 1°44 | 21°17 | 23°56 | 28°45 | 5°56 | 9°30 | 29°28 | 2°14 | 15°52 | 16°33 | 29° 4 | 12°33 | M28 |
| T 29 | 20 27 31 | 5°56'38 | 21°11 | 1° 4 | 22°22 | 23°57 | 28°58 | 5°52 | 9°28 | 29°26 | 2°15 | 15°46 | 16°29 | 29°11 | 12°31 | T 29 |
| W30 | 20 31 28 | 6°54'04 | 4♑46 | 0°27 | 23°28 | 24° 0 | 29°12 | 5°49 | 9°26 | 29°25 | 2°17 | 15°37 | 16°26 | 29°17 | 12°29 | W30 |
| T 31 | 20 35 24 | 7♌51'30 | 18♑48 | 29♋53 | 24♊33 | 24♐ 3 | 29♋25 | 5♓45 | 9♓24 | 29♑23 | 2♋18 | 15♈27 | 16♈23 | 29♍24 | 12♓26 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n10 | 26s28 | 4s 6 | 18n38 | 0s27 | 15n32 | 3s16 | 28s13 | 4s45 | 21n54 | 0n21 | 10s34 | 1s45 | 8s32 | 0s47 | 19s53 | 0n17 | 19n11 | 4s18 | 7n17 | 7n 4 | 3n20 | 1s47 | 5n13 |
| W 2 | 23 6 | 28 6 | 4 39 | 18 14 | 0 40 | 15 46 | 3 16 | 28 15 | 4 47 | 21 52 | 0 21 | 10 34 | 1 45 | 8 32 | 0 47 | 19 53 | 0 17 | 19 11 | 4 18 | 7 14 | 7 3 | 3 16 | 1 47 | 5 13 |
| T 3 | 23 1 | 28 2 | 4 58 | 17 51 | 0 53 | 16 0 | 3 16 | 28 17 | 4 49 | 21 50 | 0 21 | 10 35 | 1 46 | 8 32 | 0 47 | 19 53 | 0 17 | 19 11 | 4 18 | 7 9 | 7 1 | 3 13 | 1 47 | 5 13 |
| F 4 | 22 56 | 26 10 | 4 59 | 17 28 | 1 7 | 16 14 | 3 15 | 28 18 | 4 51 | 21 48 | 0 21 | 10 36 | 1 46 | 8 33 | 0 47 | 19 54 | 0 17 | 19 11 | 4 18 | 7 5 | 7 0 | 3 9 | 1 47 | 5 14 |
| S 5 | 22 51 | 22 38 | 4 41 | 17 6 | 1 21 | 16 28 | 3 15 | 28 20 | 4 53 | 21 46 | 0 21 | 10 37 | 1 46 | 8 33 | 0 47 | 19 54 | 0 17 | 19 11 | 4 18 | 7 1 | 6 59 | 3 6 | 1 48 | 5 14 |
| S 6 | 22 45 | 17 42 | 4 6 | 16 45 | 1 35 | 16 42 | 3 14 | 28 21 | 4 54 | 21 43 | 0 21 | 10 38 | 1 46 | 8 34 | 0 48 | 19 54 | 0 17 | 19 11 | 4 18 | 6 58 | 6 58 | 3 3 | 1 48 | 5 14 |
| M 7 | 22 39 | 11 46 | 3 14 | 16 24 | 1 49 | 16 55 | 3 13 | 28 22 | 4 56 | 21 41 | 0 21 | 10 39 | 1 47 | 8 34 | 0 48 | 19 55 | 0 17 | 19 11 | 4 18 | 6 55 | 6 56 | 2 59 | 1 48 | 5 14 |
| T 8 | 22 32 | 5 14 | 2 11 | 16 4 | 2 3 | 17 9 | 3 12 | 28 23 | 4 57 | 21 39 | 0 22 | 10 39 | 1 47 | 8 34 | 0 48 | 19 55 | 0 17 | 19 11 | 4 18 | 6 54 | 6 55 | 2 56 | 1 48 | 5 14 |
| W 9 | 22 25 | 1n31 | 1 0 | 15 46 | 2 18 | 17 22 | 3 10 | 28 24 | 4 58 | 21 37 | 0 22 | 10 40 | 1 47 | 8 35 | 0 48 | 19 55 | 0 17 | 19 11 | 4 18 | 6 54 | 6 54 | 2 52 | 1 49 | 5 15 |
| T 10 | 22 18 | 8 9 | 0n14 | 15 28 | 2 32 | 17 35 | 3 9 | 28 24 | 4 59 | 21 34 | 0 22 | 10 41 | 1 47 | 8 35 | 0 48 | 19 56 | 0 17 | 19 11 | 4 18 | 6 54 | 6 53 | 2 49 | 1 49 | 5 15 |
| F 11 | 22 10 | 14 18 | 1 27 | 15 12 | 2 47 | 17 48 | 3 8 | 28 25 | 5 0 | 21 32 | 0 22 | 10 42 | 1 47 | 8 36 | 0 48 | 19 56 | 0 17 | 19 11 | 4 18 | 6 53 | 6 52 | 2 46 | 1 49 | 5 15 |
| S 12 | 22 2 | 19 40 | 2 33 | 14 57 | 3 1 | 18 1 | 3 6 | 28 25 | 5 1 | 21 30 | 0 22 | 10 43 | 1 48 | 8 36 | 0 48 | 19 56 | 0 17 | 19 11 | 4 18 | 6 53 | 6 50 | 2 42 | 1 50 | 5 15 |
| S 13 | 21 54 | 23 57 | 3 30 | 14 44 | 3 15 | 18 14 | 3 5 | 28 25 | 5 2 | 21 27 | 0 22 | 10 45 | 1 48 | 8 37 | 0 48 | 19 57 | 0 17 | 19 11 | 4 18 | 6 51 | 6 49 | 2 39 | 1 50 | 5 15 |
| M14 | 21 45 | 26 52 | 4 15 | 14 32 | 3 28 | 18 26 | 3 3 | 28 26 | 5 2 | 21 25 | 0 22 | 10 46 | 1 48 | 8 37 | 0 48 | 19 57 | 0 17 | 19 11 | 4 18 | 6 48 | 6 48 | 2 35 | 1 50 | 5 16 |
| T 15 | 21 36 | 28 13 | 4 45 | 14 23 | 3 42 | 18 38 | 3 1 | 28 26 | 5 3 | 21 23 | 0 22 | 10 47 | 1 48 | 8 38 | 0 48 | 19 57 | 0 17 | 19 11 | 4 18 | 6 45 | 6 47 | 2 32 | 1 51 | 5 16 |
| W16 | 21 26 | 27 57 | 4 59 | 14 15 | 3 54 | 18 49 | 2 59 | 28 26 | 5 3 | 21 20 | 0 22 | 10 48 | 1 48 | 8 38 | 0 48 | 19 58 | 0 17 | 19 11 | 4 17 | 6 40 | 6 46 | 2 29 | 1 51 | 5 16 |
| T 17 | 21 16 | 26 11 | 4 58 | 14 9 | 4 6 | 19 1 | 2 57 | 28 25 | 5 3 | 21 18 | 0 22 | 10 49 | 1 49 | 8 39 | 0 48 | 19 58 | 0 17 | 19 11 | 4 17 | 6 35 | 6 44 | 2 25 | 1 52 | 5 16 |
| F 18 | 21 6 | 23 8 | 4 42 | 14 4 | 4 17 | 19 12 | 2 55 | 28 25 | 5 3 | 21 15 | 0 22 | 10 50 | 1 49 | 8 40 | 0 48 | 19 58 | 0 17 | 19 11 | 4 17 | 6 30 | 6 43 | 2 22 | 1 52 | 5 16 |
| S 19 | 20 55 | 19 4 | 4 13 | 14 2 | 4 26 | 19 23 | 2 53 | 28 25 | 5 3 | 21 13 | 0 22 | 10 52 | 1 49 | 8 40 | 0 48 | 19 59 | 0 17 | 19 11 | 4 17 | 6 26 | 6 42 | 2 18 | 1 53 | 5 17 |
| S 20 | 20 44 | 14 17 | 3 33 | 14 2 | 4 35 | 19 33 | 2 50 | 28 25 | 5 3 | 21 10 | 0 23 | 10 53 | 1 49 | 8 41 | 0 48 | 19 59 | 0 17 | 19 11 | 4 17 | 6 23 | 6 41 | 2 15 | 1 53 | 5 17 |
| M21 | 20 33 | 9 2 | 2 43 | 14 4 | 4 42 | 19 43 | 2 48 | 28 24 | 5 3 | 21 8 | 0 23 | 10 54 | 1 49 | 8 41 | 0 48 | 19 59 | 0 17 | 19 11 | 4 17 | 6 20 | 6 39 | 2 11 | 1 54 | 5 17 |
| T 22 | 20 21 | 3 31 | 1 47 | 14 8 | 4 48 | 19 53 | 2 45 | 28 24 | 5 3 | 21 5 | 0 23 | 10 56 | 1 50 | 8 42 | 0 48 | 20 0 | 0 17 | 19 11 | 4 17 | 6 18 | 6 38 | 2 8 | 1 54 | 5 17 |
| W23 | 20 9 | 2s 6 | 0 47 | 14 14 | 4 52 | 20 2 | 2 43 | 28 23 | 5 3 | 21 3 | 0 23 | 10 57 | 1 50 | 8 43 | 0 48 | 20 0 | 0 17 | 19 11 | 4 17 | 6 18 | 6 37 | 2 5 | 1 55 | 5 17 |
| T 24 | 19 56 | 7 40 | 0s16 | 14 21 | 4 55 | 20 11 | 2 40 | 28 22 | 5 2 | 21 0 | 0 23 | 10 58 | 1 50 | 8 43 | 0 48 | 20 1 | 0 17 | 19 11 | 4 17 | 6 18 | 6 36 | 2 1 | 1 55 | 5 17 |
| F 25 | 19 44 | 13 0 | 1 18 | 14 31 | 4 56 | 20 20 | 2 37 | 28 22 | 5 1 | 20 58 | 0 23 | 11 0 | 1 50 | 8 44 | 0 48 | 20 1 | 0 17 | 19 11 | 4 17 | 6 18 | 6 35 | 1 58 | 1 56 | 5 18 |
| S 26 | 19 30 | 17 56 | 2 18 | 14 42 | 4 55 | 20 28 | 2 35 | 28 21 | 5 1 | 20 55 | 0 23 | 11 1 | 1 50 | 8 45 | 0 48 | 20 1 | 0 17 | 19 11 | 4 17 | 6 18 | 6 33 | 1 54 | 1 57 | 5 18 |
| S 27 | 19 17 | 22 15 | 3 13 | 14 54 | 4 52 | 20 36 | 2 32 | 28 20 | 5 0 | 20 52 | 0 23 | 11 3 | 1 50 | 8 45 | 0 48 | 20 2 | 0 17 | 19 11 | 4 17 | 6 17 | 6 32 | 1 51 | 1 57 | 5 18 |
| M28 | 19 3 | 25 38 | 4 0 | 15 8 | 4 48 | 20 43 | 2 29 | 28 20 | 4 59 | 20 50 | 0 23 | 11 4 | 1 51 | 8 46 | 0 48 | 20 2 | 0 17 | 19 11 | 4 17 | 6 15 | 6 31 | 1 48 | 1 58 | 5 18 |
| T 29 | 18 49 | 27 47 | 4 36 | 15 23 | 4 42 | 20 50 | 2 26 | 28 19 | 4 58 | 20 47 | 0 23 | 11 5 | 1 51 | 8 47 | 0 48 | 20 2 | 0 17 | 19 11 | 4 17 | 6 13 | 6 30 | 1 44 | 1 59 | 5 18 |
| W30 | 18 35 | 28 21 | 4 58 | 15 38 | 4 34 | 20 57 | 2 23 | 28 18 | 4 57 | 20 44 | 0 23 | 11 7 | 1 51 | 8 48 | 0 48 | 20 3 | 0 17 | 19 11 | 4 17 | 6 10 | 6 28 | 1 41 | 1 59 | 5 18 |
| T 31 | 18n20 | 27s 9 | 5s 2 | 15n55 | 4s24 | 21n 3 | 2s20 | 28s17 | 4s56 | 20n42 | 0n24 | 11s 8 | 1s51 | 8s48 | 0s48 | 20s 3 | 0n17 | 19n11 | 4s17 | 6n 6 | 6n27 | 1n37 | 2s 0 | 5n18 |

Julian Day Number = 2331196.5, Delta T = 29.42 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'27, Lahiri = 19°15'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## AUGUST 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 39 21 | 8♌48'57 | 3♒11 | 29°R24 | 25♊39 | 24♐ 7 | 29♋38 | 5°R41 | 9°R22 | 29°R21 | 2♋19 | 15°R17 | 16♈20 | 29♍31 | 12°R24 | F 1 |
| S 2 | 20 43 17 | 9°46'25 | 17°51 | 29♋ 0 | 26°45 | 24°12 | 29°51 | 5♓37 | 9♓20 | 29♑20 | 2°20 | 15♈ 8 | 16°17 | 29°37 | 12♓22 | S 2 |
| S 3 | 20 47 14 | 10°43'54 | 2♓40 | 28°42 | 27°51 | 24°18 | 0♌ 5 | 5°34 | 9°18 | 29°18 | 2°22 | 15° 0 | 16°13 | 29°44 | 12°20 | S 3 |
| M 4 | 20 51 11 | 11°41'24 | 17°28 | 28°29 | 28°57 | 24°24 | 0°18 | 5°30 | 9°16 | 29°17 | 2°23 | 14°55 | 16°10 | 29°51 | 12°17 | M 4 |
| T 5 | 20 55 7 | 12°38'56 | 2♈10 | 28°D23 | 0♋ 4 | 24°32 | 0°31 | 5°26 | 9°14 | 29°15 | 2°24 | 14°53 | 16° 7 | 29°57 | 12°15 | T 5 |
| W 6 | 20 59 4 | 13°36'29 | 16°40 | 28°24 | 1°10 | 24°40 | 0°44 | 5°22 | 9°12 | 29°13 | 2°25 | 14°D52 | 16° 4 | 0♎ 4 | 12°12 | W 6 |
| T 7 | 21 3 0 | 14°34'03 | 0♉55 | 28°32 | 2°17 | 24°49 | 0°57 | 5°18 | 9°10 | 29°12 | 2°26 | 14°53 | 16° 1 | 0°11 | 12°10 | T 7 |
| F 8 | 21 6 57 | 15°31'39 | 14°52 | 28°46 | 3°24 | 24°58 | 1°10 | 5°13 | 9° 8 | 29°10 | 2°28 | 14°R53 | 15°58 | 0°17 | 12° 8 | F 8 |
| S 9 | 21 10 53 | 16°29'17 | 28°34 | 29° 8 | 4°31 | 25° 9 | 1°23 | 5° 9 | 9° 6 | 29° 9 | 2°29 | 14°52 | 15°54 | 0°24 | 12° 5 | S 9 |
| S 10 | 21 14 50 | 17°26'56 | 11♊59 | 29°37 | 5°39 | 25°20 | 1°36 | 5° 5 | 9° 3 | 29° 7 | 2°30 | 14°50 | 15°51 | 0°31 | 12° 3 | S 10 |
| M11 | 21 18 46 | 18°24'36 | 25°10 | 0♌13 | 6°46 | 25°32 | 1°49 | 5° 1 | 9° 1 | 29° 6 | 2°31 | 14°45 | 15°48 | 0°37 | 12° 0 | M11 |
| T 12 | 21 22 43 | 19°22'19 | 8♋ 7 | 0°57 | 7°54 | 25°44 | 2° 2 | 4°57 | 8°59 | 29° 4 | 2°32 | 14°38 | 15°45 | 0°44 | 11°57 | T 12 |
| W13 | 21 26 40 | 20°20'02 | 20°51 | 1°47 | 9° 1 | 25°57 | 2°15 | 4°52 | 8°57 | 29° 3 | 2°33 | 14°29 | 15°42 | 0°51 | 11°55 | W13 |
| T 14 | 21 30 36 | 21°17'47 | 3♌24 | 2°44 | 10° 9 | 26°11 | 2°28 | 4°48 | 8°55 | 29° 1 | 2°34 | 14°19 | 15°39 | 0°57 | 11°52 | T 14 |
| F 15 | 21 34 33 | 22°15'34 | 15°45 | 3°47 | 11°17 | 26°26 | 2°41 | 4°43 | 8°52 | 29° 0 | 2°35 | 14°10 | 15°35 | 1° 4 | 11°49 | F 15 |
| S 16 | 21 38 29 | 23°13'22 | 27°56 | 4°57 | 12°26 | 26°41 | 2°54 | 4°39 | 8°50 | 28°58 | 2°36 | 14° 1 | 15°32 | 1°10 | 11°47 | S 16 |
| S 17 | 21 42 26 | 24°11'11 | 9♍57 | 6°12 | 13°34 | 26°58 | 3° 7 | 4°35 | 8°48 | 28°57 | 2°37 | 13°54 | 15°29 | 1°17 | 11°44 | S 17 |
| M18 | 21 46 22 | 25° 9'02 | 21°51 | 7°34 | 14°42 | 27°14 | 3°20 | 4°30 | 8°45 | 28°55 | 2°38 | 13°50 | 15°26 | 1°24 | 11°41 | M18 |
| T 19 | 21 50 19 | 26° 6'54 | 3♎39 | 9° 0 | 15°51 | 27°32 | 3°33 | 4°26 | 8°43 | 28°54 | 2°39 | 13°47 | 15°23 | 1°30 | 11°39 | T 19 |
| W20 | 21 54 15 | 27° 4'47 | 15°25 | 10°32 | 17° 0 | 27°50 | 3°45 | 4°21 | 8°41 | 28°53 | 2°40 | 13°D46 | 15°19 | 1°37 | 11°36 | W20 |
| T 21 | 21 58 12 | 28° 2'42 | 27°13 | 12° 8 | 18° 9 | 28° 8 | 3°58 | 4°17 | 8°38 | 28°51 | 2°41 | 13°47 | 15°16 | 1°44 | 11°33 | T 21 |
| F 22 | 22 2 9 | 29° 0'38 | 9♏ 7 | 13°48 | 19°18 | 28°27 | 4°11 | 4°12 | 8°36 | 28°50 | 2°42 | 13°49 | 15°13 | 1°50 | 11°30 | F 22 |
| S 23 | 22 6 5 | 29°58'35 | 21°11 | 15°32 | 20°27 | 28°47 | 4°23 | 4° 8 | 8°34 | 28°49 | 2°43 | 13°50 | 15°10 | 1°57 | 11°28 | S 23 |
| S 24 | 22 10 2 | 0♍56'34 | 3♐32 | 17°18 | 21°36 | 29° 8 | 4°36 | 4° 3 | 8°31 | 28°47 | 2°44 | 13°R50 | 15° 7 | 2° 4 | 11°25 | S 24 |
| M25 | 22 13 58 | 1°54'34 | 16°14 | 19° 7 | 22°45 | 29°29 | 4°49 | 3°58 | 8°29 | 28°46 | 2°44 | 13°49 | 15° 4 | 2°10 | 11°22 | M25 |
| T 26 | 22 17 55 | 2°52'36 | 29°20 | 20°59 | 23°55 | 29°50 | 5° 1 | 3°54 | 8°27 | 28°45 | 2°45 | 13°46 | 15° 0 | 2°17 | 11°19 | T 26 |
| W27 | 22 21 51 | 3°50'39 | 12♑55 | 22°52 | 25° 4 | 0♑12 | 5°13 | 3°49 | 8°24 | 28°43 | 2°46 | 13°42 | 14°57 | 2°24 | 11°16 | W27 |
| T 28 | 22 25 48 | 4°48'43 | 26°58 | 24°46 | 26°14 | 0°35 | 5°26 | 3°45 | 8°22 | 28°42 | 2°47 | 13°37 | 14°54 | 2°30 | 11°13 | T 28 |
| F 29 | 22 29 44 | 5°46'49 | 11♒27 | 26°42 | 27°24 | 0°58 | 5°38 | 3°40 | 8°19 | 28°41 | 2°48 | 13°31 | 14°51 | 2°37 | 11°11 | F 29 |
| S 30 | 22 33 41 | 6°44'56 | 26°17 | 28°38 | 28°34 | 1°22 | 5°51 | 3°36 | 8°17 | 28°40 | 2°49 | 13°25 | 14°48 | 2°44 | 11° 8 | S 30 |
| S 31 | 22 37 38 | 7♍43'05 | 11♓20 | 0♍34 | 29♋44 | 1♑46 | 6♌ 3 | 3♓31 | 8♓15 | 28♑39 | 2♋49 | 13♈21 | 14♈45 | 2♎50 | 11♓ 5 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18n 5 | 24s 9 | 4s48 | 16n11 | 4s13 | 21n 8 | 2s17 | 28s16 | 4s55 | 20n39 | 0n24 | 11s10 | 1s51 | 8s49 | 0s48 | 20s 3 | 0n16 | 19n10 | 4s17 | 6n 2 | 6n26 | 1n34 | 2s 1 | 5n18 |
| S 2 | 17 50 | 19 33 | 4 15 | 16 28 | 4 1 | 21 13 | 2 13 | 28 15 | 4 54 | 20 36 | 0 24 | 11 12 | 1 51 | 8 50 | 0 48 | 20 4 | 0 16 | 19 10 | 4 17 | 5 58 | 6 25 | 1 30 | 2 2 | 5 19 |
| S 3 | 17 35 | 13 44 | 3 25 | 16 45 | 3 48 | 21 18 | 2 10 | 28 14 | 4 53 | 20 34 | 0 24 | 11 13 | 1 52 | 8 51 | 0 48 | 20 4 | 0 16 | 19 10 | 4 17 | 5 55 | 6 24 | 1 27 | 2 2 | 5 19 |
| M 4 | 17 19 | 7 7 | 2 21 | 17 1 | 3 33 | 21 22 | 2 7 | 28 13 | 4 52 | 20 31 | 0 24 | 11 15 | 1 52 | 8 51 | 0 48 | 20 4 | 0 16 | 19 10 | 4 17 | 5 53 | 6 22 | 1 24 | 2 3 | 5 19 |
| T 5 | 17 3 | 0 10 | 1 7 | 17 17 | 3 18 | 21 26 | 2 3 | 28 12 | 4 50 | 20 28 | 0 24 | 11 16 | 1 52 | 8 52 | 0 48 | 20 5 | 0 16 | 19 10 | 4 17 | 5 52 | 6 21 | 1 20 | 2 4 | 5 19 |
| W 6 | 16 46 | 6n43 | 0n10 | 17 33 | 3 2 | 21 29 | 2 0 | 28 11 | 4 49 | 20 25 | 0 24 | 11 18 | 1 52 | 8 53 | 0 48 | 20 5 | 0 16 | 19 10 | 4 17 | 5 52 | 6 20 | 1 17 | 2 5 | 5 19 |
| T 7 | 16 30 | 13 8 | 1 25 | 17 47 | 2 46 | 21 31 | 1 57 | 28 10 | 4 48 | 20 23 | 0 24 | 11 20 | 1 52 | 8 54 | 0 48 | 20 5 | 0 16 | 19 10 | 4 17 | 5 52 | 6 19 | 1 13 | 2 6 | 5 19 |
| F 8 | 16 13 | 18 46 | 2 33 | 18 1 | 2 29 | 21 33 | 1 53 | 28 9 | 4 46 | 20 20 | 0 24 | 11 21 | 1 52 | 8 55 | 0 48 | 20 6 | 0 16 | 19 10 | 4 17 | 5 52 | 6 17 | 1 10 | 2 6 | 5 19 |
| S 9 | 15 55 | 23 19 | 3 32 | 18 13 | 2 12 | 21 35 | 1 50 | 28 8 | 4 45 | 20 17 | 0 24 | 11 23 | 1 53 | 8 55 | 0 48 | 20 6 | 0 16 | 19 10 | 4 17 | 5 52 | 6 16 | 1 6 | 2 7 | 5 19 |
| S 10 | 15 38 | 26 31 | 4 17 | 18 24 | 1 55 | 21 36 | 1 46 | 28 7 | 4 43 | 20 14 | 0 25 | 11 25 | 1 53 | 8 56 | 0 48 | 20 6 | 0 16 | 19 10 | 4 18 | 5 51 | 6 15 | 1 3 | 2 8 | 5 19 |
| M11 | 15 20 | 28 12 | 4 48 | 18 33 | 1 38 | 21 36 | 1 43 | 28 6 | 4 42 | 20 12 | 0 25 | 11 26 | 1 53 | 8 57 | 0 48 | 20 7 | 0 16 | 19 10 | 4 18 | 5 49 | 6 14 | 1 0 | 2 9 | 5 19 |
| T 12 | 15 2 | 28 17 | 5 4 | 18 40 | 1 21 | 21 36 | 1 39 | 28 5 | 4 40 | 20 9 | 0 25 | 11 28 | 1 53 | 8 58 | 0 48 | 20 7 | 0 16 | 19 10 | 4 18 | 5 47 | 6 13 | 0 56 | 2 10 | 5 19 |
| W13 | 14 44 | 26 52 | 5 4 | 18 45 | 1 5 | 21 35 | 1 35 | 28 4 | 4 38 | 20 6 | 0 25 | 11 30 | 1 53 | 8 59 | 0 48 | 20 7 | 0 16 | 19 10 | 4 18 | 5 43 | 6 11 | 0 53 | 2 11 | 5 20 |
| T 14 | 14 26 | 24 7 | 4 49 | 18 48 | 0 48 | 21 34 | 1 32 | 28 2 | 4 37 | 20 3 | 0 25 | 11 31 | 1 53 | 9 0 | 0 49 | 20 8 | 0 16 | 19 10 | 4 18 | 5 39 | 6 10 | 0 49 | 2 12 | 5 20 |
| F 15 | 14 7 | 20 18 | 4 21 | 18 49 | 0 33 | 21 32 | 1 28 | 28 1 | 4 35 | 20 0 | 0 25 | 11 33 | 1 53 | 9 0 | 0 49 | 20 8 | 0 16 | 19 10 | 4 18 | 5 36 | 6 9 | 0 46 | 2 13 | 5 20 |
| S 16 | 13 48 | 15 40 | 3 41 | 18 47 | 0 18 | 21 30 | 1 24 | 28 0 | 4 33 | 19 57 | 0 25 | 11 35 | 1 53 | 9 1 | 0 49 | 20 8 | 0 16 | 19 10 | 4 18 | 5 32 | 6 8 | 0 42 | 2 14 | 5 20 |
| S 17 | 13 29 | 10 30 | 2 52 | 18 42 | 0 3 | 21 27 | 1 21 | 27 59 | 4 32 | 19 55 | 0 25 | 11 37 | 1 53 | 9 2 | 0 49 | 20 9 | 0 16 | 19 10 | 4 18 | 5 30 | 6 6 | 0 39 | 2 15 | 5 20 |
| M18 | 13 10 | 5 1 | 1 56 | 18 35 | 0n10 | 21 24 | 1 17 | 27 57 | 4 30 | 19 52 | 0 25 | 11 38 | 1 54 | 9 3 | 0 49 | 20 9 | 0 16 | 19 10 | 4 18 | 5 28 | 6 5 | 0 35 | 2 16 | 5 20 |
| T 19 | 12 50 | 0s37 | 0 55 | 18 25 | 0 23 | 21 20 | 1 13 | 27 56 | 4 28 | 19 49 | 0 26 | 11 40 | 1 54 | 9 4 | 0 49 | 20 9 | 0 16 | 19 10 | 4 18 | 5 27 | 6 4 | 0 32 | 2 17 | 5 20 |
| W20 | 12 30 | 6 13 | 0s 9 | 18 12 | 0 35 | 21 15 | 1 10 | 27 54 | 4 26 | 19 46 | 0 26 | 11 42 | 1 54 | 9 5 | 0 49 | 20 10 | 0 16 | 19 10 | 4 18 | 5 27 | 6 3 | 0 29 | 2 18 | 5 20 |
| T 21 | 12 11 | 11 37 | 1 12 | 17 56 | 0 47 | 21 10 | 1 6 | 27 53 | 4 25 | 19 43 | 0 26 | 11 44 | 1 54 | 9 6 | 0 49 | 20 10 | 0 16 | 19 10 | 4 18 | 5 27 | 6 2 | 0 25 | 2 19 | 5 20 |
| F 22 | 11 50 | 16 40 | 2 13 | 17 37 | 0 57 | 21 4 | 1 2 | 27 51 | 4 23 | 19 40 | 0 26 | 11 45 | 1 54 | 9 7 | 0 49 | 20 10 | 0 16 | 19 10 | 4 18 | 5 28 | 6 0 | 0 22 | 2 20 | 5 20 |
| S 23 | 11 30 | 21 8 | 3 9 | 17 16 | 1 6 | 20 58 | 0 59 | 27 50 | 4 21 | 19 37 | 0 26 | 11 47 | 1 54 | 9 8 | 0 49 | 20 10 | 0 16 | 19 10 | 4 18 | 5 28 | 5 59 | 0 18 | 2 21 | 5 20 |
| S 24 | 11 10 | 24 47 | 3 57 | 16 51 | 1 14 | 20 51 | 0 55 | 27 48 | 4 19 | 19 34 | 0 26 | 11 49 | 1 54 | 9 8 | 0 49 | 20 11 | 0 16 | 19 10 | 4 18 | 5 28 | 5 58 | 0 15 | 2 22 | 5 20 |
| M25 | 10 49 | 27 20 | 4 36 | 16 25 | 1 22 | 20 43 | 0 51 | 27 46 | 4 17 | 19 31 | 0 26 | 11 51 | 1 54 | 9 9 | 0 49 | 20 11 | 0 16 | 19 10 | 4 18 | 5 28 | 5 57 | 0 11 | 2 23 | 5 20 |
| T 26 | 10 28 | 28 30 | 5 1 | 15 55 | 1 28 | 20 35 | 0 47 | 27 44 | 4 15 | 19 29 | 0 26 | 11 52 | 1 54 | 9 10 | 0 49 | 20 11 | 0 16 | 19 9 | 4 18 | 5 27 | 5 55 | 0 8 | 2 24 | 5 20 |
| W27 | 10 7 | 28 1 | 5 11 | 15 23 | 1 33 | 20 26 | 0 44 | 27 42 | 4 13 | 19 26 | 0 27 | 11 54 | 1 54 | 9 11 | 0 49 | 20 12 | 0 16 | 19 9 | 4 18 | 5 25 | 5 54 | 0 5 | 2 25 | 5 20 |
| T 28 | 9 46 | 25 45 | 5 2 | 14 50 | 1 38 | 20 17 | 0 40 | 27 40 | 4 11 | 19 23 | 0 27 | 11 56 | 1 54 | 9 12 | 0 49 | 20 12 | 0 16 | 19 9 | 4 18 | 5 23 | 5 53 | 0 1 | 2 26 | 5 20 |
| F 29 | 9 25 | 21 47 | 4 35 | 14 14 | 1 41 | 20 7 | 0 36 | 27 38 | 4 9 | 19 20 | 0 27 | 11 57 | 1 54 | 9 13 | 0 49 | 20 12 | 0 16 | 19 9 | 4 18 | 5 21 | 5 52 | 0s 2 | 2 27 | 5 20 |
| S 30 | 9 3 | 16 22 | 3 48 | 13 36 | 1 44 | 19 57 | 0 33 | 27 36 | 4 7 | 19 17 | 0 27 | 11 59 | 1 55 | 9 14 | 0 49 | 20 12 | 0 16 | 19 9 | 4 18 | 5 18 | 5 50 | 0 6 | 2 28 | 5 20 |
| S 31 | 8n41 | 9s53 | 2s46 | 12n57 | 1n46 | 19n46 | 0s29 | 27s34 | 4s 5 | 19n14 | 0n27 | 12s 1 | 1s55 | 9s15 | 0s49 | 20s13 | 0n16 | 19n 9 | 4s18 | 5n17 | 5n49 | 0s 9 | 2s30 | 5n20 |

Julian Day Number = 2331227.5, Delta T = 29.37 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'32, Lahiri = 19°15'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## SEPTEMBER 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 41 34 | 8♍41'16 | 26♓28 | 2♍31 | 0♌54 | 2♏10 | 6♌15 | 3°R27 | 8°R12 | 28°R37 | 2♋50 | 13°R19 | 14♈41 | 2♎57 | 11°R 2 | M 1 |
| T 2 | 22 45 31 | 9°39'28 | 11♈30 | 4°27 | 2° 4 | 2°35 | 6°27 | 3♓22 | 8♓10 | 28♏36 | 2°51 | 13°D18 | 14°38 | 3° 3 | 10♓59 | T 2 |
| W 3 | 22 49 27 | 10°37'42 | 26°19 | 6°23 | 3°15 | 3° 1 | 6°39 | 3°17 | 8° 7 | 28°35 | 2°51 | 13♈18 | 14°35 | 3°10 | 10°56 | W 3 |
| T 4 | 22 53 24 | 11°35'59 | 10♉50 | 8°18 | 4°25 | 3°27 | 6°51 | 3°13 | 8° 5 | 28°34 | 2°52 | 13°19 | 14°32 | 3°17 | 10°53 | T 4 |
| F 5 | 22 57 20 | 12°34'18 | 24°58 | 10°13 | 5°36 | 3°53 | 7° 3 | 3° 8 | 8° 3 | 28°33 | 2°53 | 13°21 | 14°29 | 3°23 | 10°50 | F 5 |
| S 6 | 23 1 17 | 13°32'38 | 8♊43 | 12° 7 | 6°47 | 4°20 | 7°15 | 3° 4 | 8° 0 | 28°32 | 2°53 | 13°R22 | 14°25 | 3°30 | 10°48 | S 6 |
| S 7 | 23 5 13 | 14°31'01 | 22° 7 | 14° 1 | 7°58 | 4°47 | 7°27 | 3° 0 | 7°58 | 28°31 | 2°54 | 13°22 | 14°22 | 3°37 | 10°45 | S 7 |
| M 8 | 23 9 10 | 15°29'27 | 5♋10 | 15°53 | 9° 9 | 5°15 | 7°39 | 2°55 | 7°56 | 28°30 | 2°54 | 13°20 | 14°19 | 3°43 | 10°42 | M 8 |
| T 9 | 23 13 7 | 16°27'54 | 17°55 | 17°45 | 10°20 | 5°43 | 7°50 | 2°51 | 7°53 | 28°29 | 2°55 | 13°18 | 14°16 | 3°50 | 10°39 | T 9 |
| W10 | 23 17 3 | 17°26'23 | 0♌26 | 19°35 | 11°31 | 6°12 | 8° 2 | 2°46 | 7°51 | 28°28 | 2°56 | 13°14 | 14°13 | 3°57 | 10°36 | W10 |
| T 11 | 23 21 0 | 18°24'55 | 12°44 | 21°25 | 12°42 | 6°41 | 8°14 | 2°42 | 7°48 | 28°27 | 2°56 | 13°10 | 14°10 | 4° 3 | 10°33 | T 11 |
| F 12 | 23 24 56 | 19°23'28 | 24°51 | 23°13 | 13°53 | 7°10 | 8°25 | 2°38 | 7°46 | 28°26 | 2°57 | 13° 6 | 14° 6 | 4°10 | 10°30 | F 12 |
| S 13 | 23 28 53 | 20°22'04 | 6♍51 | 25° 0 | 15° 5 | 7°40 | 8°37 | 2°34 | 7°44 | 28°25 | 2°57 | 13° 2 | 14° 3 | 4°17 | 10°28 | S 13 |
| S 14 | 23 32 49 | 21°20'41 | 18°44 | 26°47 | 16°16 | 8°10 | 8°48 | 2°29 | 7°41 | 28°25 | 2°57 | 12°59 | 14° 0 | 4°23 | 10°25 | S 14 |
| M15 | 23 36 46 | 22°19'20 | 0♎33 | 28°32 | 17°28 | 8°40 | 8°59 | 2°25 | 7°39 | 28°24 | 2°58 | 12°58 | 13°57 | 4°30 | 10°22 | M15 |
| T 16 | 23 40 42 | 23°18'02 | 12°19 | 0♎16 | 18°40 | 9°11 | 9°11 | 2°21 | 7°37 | 28°23 | 2°58 | 12°D57 | 13°54 | 4°37 | 10°19 | T 16 |
| W17 | 23 44 39 | 24°16'45 | 24° 6 | 2° 0 | 19°52 | 9°42 | 9°22 | 2°17 | 7°35 | 28°22 | 2°59 | 12°58 | 13°51 | 4°43 | 10°16 | W17 |
| T 18 | 23 48 36 | 25°15'30 | 5♏57 | 3°42 | 21° 3 | 10°13 | 9°33 | 2°13 | 7°32 | 28°22 | 2°59 | 12°59 | 13°47 | 4°50 | 10°14 | T 18 |
| F 19 | 23 52 32 | 26°14'17 | 17°53 | 5°23 | 22°15 | 10°45 | 9°44 | 2° 9 | 7°30 | 28°21 | 2°59 | 13° 0 | 13°44 | 4°56 | 10°11 | F 19 |
| S 20 | 23 56 29 | 27°13'05 | 29°59 | 7° 4 | 23°27 | 11°17 | 9°55 | 2° 5 | 7°28 | 28°20 | 3° 0 | 13° 1 | 13°41 | 5° 3 | 10° 8 | S 20 |
| S 21 | 0 0 25 | 28°11'56 | 12♐20 | 8°43 | 24°40 | 11°50 | 10° 6 | 2° 1 | 7°26 | 28°20 | 3° 0 | 13° 3 | 13°38 | 5°10 | 10° 5 | S 21 |
| M22 | 0 4 22 | 29°10'48 | 24°59 | 10°22 | 25°52 | 12°22 | 10°16 | 1°57 | 7°24 | 28°19 | 3° 0 | 13°R 3 | 13°35 | 5°16 | 10° 3 | M22 |
| T 23 | 0 8 18 | 0♎ 9'42 | 8♑ 1 | 11°59 | 27° 4 | 12°55 | 10°27 | 1°54 | 7°21 | 28°18 | 3° 0 | 13° 3 | 13°31 | 5°23 | 10° 0 | T 23 |
| W24 | 0 12 15 | 1° 8'38 | 21°27 | 13°36 | 28°17 | 13°29 | 10°38 | 1°50 | 7°19 | 28°18 | 3° 1 | 13° 2 | 13°28 | 5°30 | 9°57 | W24 |
| T 25 | 0 16 11 | 2° 7'36 | 5♒21 | 15°12 | 29°29 | 14° 2 | 10°48 | 1°46 | 7°17 | 28°17 | 3° 1 | 13° 1 | 13°25 | 5°36 | 9°55 | T 25 |
| F 26 | 0 20 8 | 3° 6'35 | 19°42 | 16°47 | 0♍42 | 14°36 | 10°58 | 1°43 | 7°15 | 28°17 | 3° 1 | 13° 0 | 13°22 | 5°43 | 9°52 | F 26 |
| S 27 | 0 24 5 | 4° 5'36 | 4♓26 | 18°21 | 1°54 | 15°10 | 11° 9 | 1°39 | 7°13 | 28°16 | 3° 1 | 12°59 | 13°19 | 5°50 | 9°50 | S 27 |
| S 28 | 0 28 1 | 5° 4'39 | 19°29 | 19°54 | 3° 7 | 15°45 | 11°19 | 1°36 | 7°11 | 28°16 | 3° 1 | 12°58 | 13°16 | 5°56 | 9°47 | S 28 |
| M29 | 0 31 58 | 6° 3'43 | 4♈42 | 21°27 | 4°20 | 16°19 | 11°29 | 1°32 | 7° 9 | 28°16 | 3° 1 | 12°58 | 13°12 | 6° 3 | 9°45 | M29 |
| T 30 | 0 35 54 | 7♎ 2'50 | 19♈54 | 22♎58 | 5♍33 | 16♑54 | 11♌39 | 1♓29 | 7♓ 7 | 28♑15 | 3♋ 2 | 12°D58 | 13♈ 9 | 6♎10 | 9♓42 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8n20 | 2s48 | 1s31 | 12n16 | 1n47 | 19n35 | 0s26 | 27s31 | 4s 3 | 19n11 | 0n27 | 12s 3 | 1s55 | 9s16 | 0s49 | 20s13 | 0n16 | 19n 9 | 4s18 | 5n16 | 5n48 | 0s13 | 2s31 | 5n20 |
| T 2 | 7 58 | 4n24 | 0 10 | 11 34 | 1 47 | 19 23 | 0 22 | 27 29 | 4 2 | 19 8 | 0 27 | 12 4 | 1 55 | 9 17 | 0 49 | 20 13 | 0 16 | 19 9 | 4 18 | 5 15 | 5 47 | 0 16 | 2 32 | 5 20 |
| W 3 | 7 36 | 11 17 | 1n11 | 10 51 | 1 47 | 19 10 | 0 18 | 27 26 | 4 0 | 19 5 | 0 27 | 12 6 | 1 55 | 9 17 | 0 49 | 20 13 | 0 16 | 19 9 | 4 18 | 5 16 | 5 46 | 0 20 | 2 33 | 5 19 |
| T 4 | 7 14 | 17 24 | 2 25 | 10 7 | 1 46 | 18 57 | 0 15 | 27 24 | 3 58 | 19 2 | 0 28 | 12 8 | 1 55 | 9 18 | 0 49 | 20 14 | 0 16 | 19 9 | 4 18 | 5 16 | 5 44 | 0 23 | 2 34 | 5 19 |
| F 5 | 6 51 | 22 25 | 3 29 | 9 22 | 1 45 | 18 43 | 0 11 | 27 21 | 3 56 | 18 59 | 0 28 | 12 9 | 1 55 | 9 19 | 0 49 | 20 14 | 0 16 | 19 9 | 4 18 | 5 17 | 5 43 | 0 26 | 2 35 | 5 19 |
| S 6 | 6 29 | 26 3 | 4 18 | 8 36 | 1 42 | 18 29 | 0 8 | 27 18 | 3 54 | 18 57 | 0 28 | 12 11 | 1 55 | 9 20 | 0 49 | 20 14 | 0 16 | 19 9 | 4 18 | 5 17 | 5 42 | 0 30 | 2 36 | 5 19 |
| S 7 | 6 6 | 28 7 | 4 53 | 7 50 | 1 40 | 18 15 | 0 4 | 27 15 | 3 52 | 18 54 | 0 28 | 12 13 | 1 55 | 9 21 | 0 49 | 20 14 | 0 16 | 19 9 | 4 18 | 5 17 | 5 41 | 0 33 | 2 38 | 5 19 |
| M 8 | 5 44 | 28 33 | 5 11 | 7 4 | 1 37 | 17 59 | 0 1 | 27 12 | 3 50 | 18 51 | 0 28 | 12 14 | 1 55 | 9 22 | 0 49 | 20 14 | 0 16 | 19 9 | 4 18 | 5 16 | 5 39 | 0 37 | 2 39 | 5 19 |
| T 9 | 5 21 | 27 27 | 5 13 | 6 17 | 1 33 | 17 44 | 0n 2 | 27 9 | 3 48 | 18 48 | 0 28 | 12 16 | 1 55 | 9 23 | 0 49 | 20 15 | 0 16 | 19 9 | 4 18 | 5 15 | 5 38 | 0 40 | 2 40 | 5 19 |
| W10 | 4 58 | 24 58 | 5 0 | 5 30 | 1 29 | 17 27 | 0 6 | 27 6 | 3 46 | 18 45 | 0 28 | 12 17 | 1 55 | 9 24 | 0 49 | 20 15 | 0 16 | 19 9 | 4 18 | 5 14 | 5 37 | 0 44 | 2 41 | 5 19 |
| T 11 | 4 35 | 21 23 | 4 33 | 4 42 | 1 25 | 17 11 | 0 9 | 27 2 | 3 44 | 18 42 | 0 28 | 12 19 | 1 55 | 9 24 | 0 49 | 20 15 | 0 16 | 19 9 | 4 19 | 5 12 | 5 36 | 0 47 | 2 42 | 5 19 |
| F 12 | 4 12 | 16 57 | 3 55 | 3 55 | 1 20 | 16 53 | 0 12 | 26 59 | 3 42 | 18 39 | 0 29 | 12 21 | 1 55 | 9 25 | 0 49 | 20 15 | 0 16 | 19 9 | 4 19 | 5 11 | 5 34 | 0 51 | 2 43 | 5 19 |
| S 13 | 3 49 | 11 54 | 3 6 | 3 8 | 1 15 | 16 36 | 0 16 | 26 55 | 3 40 | 18 36 | 0 29 | 12 22 | 1 55 | 9 26 | 0 49 | 20 15 | 0 16 | 19 9 | 4 19 | 5 9 | 5 33 | 0 54 | 2 45 | 5 19 |
| S 14 | 3 26 | 6 27 | 2 10 | 2 21 | 1 9 | 16 17 | 0 19 | 26 51 | 3 38 | 18 33 | 0 29 | 12 24 | 1 55 | 9 27 | 0 49 | 20 16 | 0 16 | 19 8 | 4 19 | 5 8 | 5 32 | 0 57 | 2 46 | 5 18 |
| M15 | 3 3 | 0 49 | 1 8 | 1 34 | 1 4 | 15 59 | 0 22 | 26 47 | 3 36 | 18 31 | 0 29 | 12 25 | 1 55 | 9 28 | 0 49 | 20 16 | 0 16 | 19 8 | 4 19 | 5 8 | 5 31 | 1 1 | 2 47 | 5 18 |
| T 16 | 2 40 | 4s50 | 0 3 | 0 47 | 0 58 | 15 39 | 0 25 | 26 43 | 3 34 | 18 28 | 0 29 | 12 27 | 1 55 | 9 29 | 0 49 | 20 16 | 0 16 | 19 8 | 4 19 | 5 7 | 5 29 | 1 4 | 2 48 | 5 18 |
| W17 | 2 17 | 10 19 | 1s 1 | 0s 0 | 0 52 | 15 20 | 0 28 | 26 39 | 3 31 | 18 25 | 0 29 | 12 28 | 1 55 | 9 30 | 0 49 | 20 16 | 0 16 | 19 8 | 4 19 | 5 8 | 5 28 | 1 8 | 2 49 | 5 18 |
| T 18 | 1 53 | 15 28 | 2 4 | 0 47 | 0 46 | 15 0 | 0 31 | 26 34 | 3 29 | 18 22 | 0 29 | 12 29 | 1 55 | 9 30 | 0 49 | 20 16 | 0 16 | 19 8 | 4 19 | 5 8 | 5 27 | 1 11 | 2 50 | 5 18 |
| F 19 | 1 30 | 20 6 | 3 2 | 1 33 | 0 39 | 14 39 | 0 34 | 26 30 | 3 27 | 18 19 | 0 30 | 12 31 | 1 55 | 9 31 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 9 | 5 26 | 1 15 | 2 52 | 5 18 |
| S 20 | 1 6 | 23 58 | 3 52 | 2 19 | 0 33 | 14 18 | 0 37 | 26 25 | 3 25 | 18 17 | 0 30 | 12 32 | 1 55 | 9 32 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 9 | 5 25 | 1 18 | 2 53 | 5 18 |
| S 21 | 0 43 | 26 49 | 4 33 | 3 4 | 0 26 | 13 57 | 0 40 | 26 20 | 3 23 | 18 14 | 0 30 | 12 34 | 1 55 | 9 33 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 10 | 5 23 | 1 21 | 2 54 | 5 17 |
| M22 | 0 20 | 28 25 | 5 2 | 3 49 | 0 19 | 13 35 | 0 43 | 26 15 | 3 21 | 18 11 | 0 30 | 12 35 | 1 55 | 9 34 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 10 | 5 22 | 1 25 | 2 55 | 5 17 |
| T 23 | 0s 4 | 28 30 | 5 16 | 4 34 | 0 12 | 13 13 | 0 45 | 26 10 | 3 19 | 18 8 | 0 30 | 12 36 | 1 55 | 9 34 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 10 | 5 21 | 1 28 | 2 56 | 5 17 |
| W24 | 0 27 | 26 56 | 5 14 | 5 18 | 0 5 | 12 51 | 0 48 | 26 4 | 3 17 | 18 6 | 0 30 | 12 38 | 1 55 | 9 35 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 9 | 5 20 | 1 32 | 2 57 | 5 17 |
| T 25 | 0 51 | 23 42 | 4 54 | 6 1 | 0s 2 | 12 28 | 0 51 | 25 59 | 3 15 | 18 3 | 0 31 | 12 39 | 1 55 | 9 36 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 9 | 5 18 | 1 35 | 2 58 | 5 17 |
| F 26 | 1 14 | 18 58 | 4 15 | 6 45 | 0 9 | 12 5 | 0 53 | 25 53 | 3 13 | 18 0 | 0 31 | 12 40 | 1 55 | 9 37 | 0 48 | 20 17 | 0 16 | 19 8 | 4 19 | 5 9 | 5 17 | 1 39 | 3 0 | 5 17 |
| S 27 | 1 38 | 12 58 | 3 18 | 7 27 | 0 16 | 11 41 | 0 56 | 25 47 | 3 11 | 17 57 | 0 31 | 12 41 | 1 54 | 9 38 | 0 48 | 20 18 | 0 16 | 19 8 | 4 19 | 5 8 | 5 16 | 1 42 | 3 1 | 5 16 |
| S 28 | 2 1 | 6 7 | 2 7 | 8 9 | 0 23 | 11 17 | 0 58 | 25 41 | 3 9 | 17 55 | 0 31 | 12 42 | 1 54 | 9 38 | 0 48 | 20 18 | 0 16 | 19 8 | 4 19 | 5 8 | 5 15 | 1 46 | 3 2 | 5 16 |
| M29 | 2 25 | 1n10 | 0 46 | 8 51 | 0 30 | 10 53 | 1 0 | 25 35 | 3 7 | 17 52 | 0 31 | 12 44 | 1 54 | 9 39 | 0 48 | 20 18 | 0 15 | 19 8 | 4 19 | 5 8 | 5 13 | 1 49 | 3 3 | 5 16 |
| T 30 | 2s48 | 8n24 | 0n39 | 9s32 | 0s38 | 10n28 | 1n 3 | 25s29 | 3s 6 | 17n49 | 0n31 | 12s45 | 1s54 | 9s40 | 0s48 | 20s18 | 0n15 | 19n 8 | 4s19 | 5n 8 | 5n12 | 1s52 | 3s 4 | 5n16 |

Julian Day Number = 2331258.5, Delta T = 29.32 sec
Ecliptic obliquity = 23°29'05, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'36, Lahiri = 19°15'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## OCTOBER 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 39 51 | 8♎ 1'59 | 4♉58 | 24♎29 | 6♍45 | 17♑29 | 11♌49 | 1°R26 | 7°R 5 | 28°R15 | 3♋ 2 | 12♈58 | 13♈ 6 | 6♎16 | 9°R40 | W 1 |
| T 2 | 0 43 47 | 9° 1'10 | 19°44 | 25°59 | 7°58 | 18° 4 | 11°59 | 1♓23 | 7♓ 3 | 28♑15 | 3° 2 | 12°58 | 13° 3 | 6°23 | 9♓37 | T 2 |
| F 3 | 0 47 44 | 10° 0'24 | 4♊ 7 | 27°28 | 9°12 | 18°40 | 12° 9 | 1°20 | 7° 1 | 28°15 | 3°R 2 | 12°59 | 13° 0 | 6°30 | 9°35 | F 3 |
| S 4 | 0 51 40 | 10°59'40 | 18° 4 | 28°57 | 10°25 | 19°16 | 12°18 | 1°17 | 6°59 | 28°14 | 3° 2 | 12°59 | 12°56 | 6°36 | 9°33 | S 4 |
| S 5 | 0 55 37 | 11°58'58 | 1♋34 | 0♏24 | 11°38 | 19°52 | 12°28 | 1°14 | 6°57 | 28°14 | 3° 2 | 12°59 | 12°53 | 6°43 | 9°30 | S 5 |
| M 6 | 0 59 34 | 12°58'19 | 14°38 | 1°51 | 12°51 | 20°28 | 12°37 | 1°11 | 6°56 | 28°14 | 3° 2 | 12°59 | 12°50 | 6°49 | 9°28 | M 6 |
| T 7 | 1 3 30 | 13°57'42 | 27°21 | 3°17 | 14° 5 | 21° 4 | 12°46 | 1° 8 | 6°54 | 28°14 | 3° 2 | 12°59 | 12°47 | 6°56 | 9°26 | T 7 |
| W 8 | 1 7 27 | 14°57'07 | 9♌45 | 4°42 | 15°18 | 21°41 | 12°55 | 1° 6 | 6°52 | 28°14 | 3° 1 | 12°59 | 12°44 | 7° 3 | 9°24 | W 8 |
| T 9 | 1 11 23 | 15°56'35 | 21°55 | 6° 6 | 16°32 | 22°18 | 13° 5 | 1° 3 | 6°50 | 28°14 | 3° 1 | 12°59 | 12°41 | 7° 9 | 9°21 | T 9 |
| F 10 | 1 15 20 | 16°56'04 | 3♍54 | 7°29 | 17°45 | 22°55 | 13°13 | 1° 1 | 6°49 | 28°D14 | 3° 1 | 13° 0 | 12°37 | 7°16 | 9°19 | F 10 |
| S 11 | 1 19 16 | 17°55'36 | 15°46 | 8°52 | 18°59 | 23°32 | 13°22 | 0°58 | 6°47 | 28°14 | 3° 1 | 13° 0 | 12°34 | 7°23 | 9°17 | S 11 |
| S 12 | 1 23 13 | 18°55'10 | 27°34 | 10°13 | 20°12 | 24° 9 | 13°31 | 0°56 | 6°45 | 28°14 | 3° 1 | 13° 1 | 12°31 | 7°29 | 9°15 | S 12 |
| M13 | 1 27 9 | 19°54'46 | 9♎21 | 11°33 | 21°26 | 24°47 | 13°40 | 0°54 | 6°44 | 28°14 | 3° 1 | 13°R 1 | 12°28 | 7°36 | 9°13 | M13 |
| T 14 | 1 31 6 | 20°54'24 | 21° 9 | 12°52 | 22°40 | 25°25 | 13°48 | 0°51 | 6°42 | 28°14 | 3° 0 | 13° 1 | 12°25 | 7°43 | 9°11 | T 14 |
| W15 | 1 35 2 | 21°54'05 | 3♏ 1 | 14°10 | 23°54 | 26° 3 | 13°56 | 0°49 | 6°41 | 28°14 | 3° 0 | 13° 0 | 12°22 | 7°49 | 9° 9 | W15 |
| T 16 | 1 38 59 | 22°53'47 | 14°58 | 15°27 | 25° 8 | 26°41 | 14° 5 | 0°48 | 6°39 | 28°14 | 3° 0 | 12°59 | 12°18 | 7°56 | 9° 8 | T 16 |
| F 17 | 1 42 56 | 23°53'31 | 27° 3 | 16°42 | 26°22 | 27°19 | 14°13 | 0°46 | 6°38 | 28°14 | 2°59 | 12°58 | 12°15 | 8° 3 | 9° 6 | F 17 |
| S 18 | 1 46 52 | 24°53'17 | 9♐18 | 17°56 | 27°36 | 27°58 | 14°21 | 0°44 | 6°37 | 28°15 | 2°59 | 12°56 | 12°12 | 8° 9 | 9° 4 | S 18 |
| S 19 | 1 50 49 | 25°53'05 | 21°46 | 19° 8 | 28°50 | 28°36 | 14°29 | 0°42 | 6°35 | 28°15 | 2°59 | 12°55 | 12° 9 | 8°16 | 9° 2 | S 19 |
| M20 | 1 54 45 | 26°52'55 | 4♑28 | 20°18 | 0♎ 4 | 29°15 | 14°36 | 0°41 | 6°34 | 28°15 | 2°58 | 12°53 | 12° 6 | 8°22 | 9° 1 | M20 |
| T 21 | 1 58 42 | 27°52'47 | 17°28 | 21°26 | 1°18 | 29°54 | 14°44 | 0°39 | 6°33 | 28°16 | 2°58 | 12°52 | 12° 2 | 8°29 | 8°59 | T 21 |
| W22 | 2 2 38 | 28°52'40 | 0♒48 | 22°32 | 2°32 | 0♒33 | 14°51 | 0°38 | 6°32 | 28°16 | 2°58 | 12°D52 | 11°59 | 8°36 | 8°57 | W22 |
| T 23 | 2 6 35 | 29°52'34 | 14°30 | 23°36 | 3°46 | 1°12 | 14°58 | 0°37 | 6°31 | 28°17 | 2°57 | 12°52 | 11°56 | 8°42 | 8°56 | T 23 |
| F 24 | 2 10 31 | 0♏52'31 | 28°36 | 24°38 | 5° 1 | 1°52 | 15° 6 | 0°35 | 6°29 | 28°17 | 2°57 | 12°53 | 11°53 | 8°49 | 8°54 | F 24 |
| S 25 | 2 14 28 | 1°52'29 | 13♓ 3 | 25°36 | 6°15 | 2°31 | 15°13 | 0°34 | 6°28 | 28°17 | 2°56 | 12°55 | 11°50 | 8°56 | 8°53 | S 25 |
| S 26 | 2 18 25 | 2°52'28 | 27°49 | 26°31 | 7°29 | 3°11 | 15°19 | 0°33 | 6°27 | 28°18 | 2°56 | 12°56 | 11°47 | 9° 2 | 8°51 | S 26 |
| M27 | 2 22 21 | 3°52'29 | 12♈49 | 27°22 | 8°44 | 3°50 | 15°26 | 0°33 | 6°26 | 28°19 | 2°55 | 12°R56 | 11°43 | 9° 9 | 8°50 | M27 |
| T 28 | 2 26 18 | 4°52'32 | 27°56 | 28°10 | 9°58 | 4°30 | 15°33 | 0°32 | 6°25 | 28°19 | 2°55 | 12°56 | 11°40 | 9°16 | 8°49 | T 28 |
| W29 | 2 30 14 | 5°52'37 | 12♉59 | 28°52 | 11°13 | 5°10 | 15°39 | 0°31 | 6°25 | 28°20 | 2°54 | 12°54 | 11°37 | 9°22 | 8°48 | W29 |
| T 30 | 2 34 11 | 6°52'44 | 27°51 | 29°30 | 12°27 | 5°50 | 15°45 | 0°31 | 6°24 | 28°20 | 2°53 | 12°51 | 11°34 | 9°29 | 8°46 | T 30 |
| F 31 | 2 38 7 | 7♏52'53 | 12♊22 | 0♐ 3 | 13♎42 | 6♒30 | 15♌51 | 0♓30 | 6♓23 | 28♑21 | 2♋53 | 12♈48 | 11♈31 | 9♎36 | 8♓45 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s12 | 15n 5 | 1n59 | 10s12 | 0s45 | 10n 3 | 1n 5 | 25s22 | 3s 4 | 17n47 | 0n31 | 12s46 | 1s54 | 9s40 | 0s48 | 20s18 | 0n15 | 19n 8 | 4s19 | 5n 8 | 5n11 | 1s56 | 3s 5 | 5n16 |
| T 2 | 3 35 | 20 46 | 3 11 | 10 52 | 0 52 | 9 38 | 1 7 | 25 16 | 3 2 | 17 44 | 0 32 | 12 47 | 1 54 | 9 41 | 0 48 | 20 18 | 0 15 | 19 8 | 4 20 | 5 8 | 5 10 | 1 59 | 3 6 | 5 15 |
| F 3 | 3 58 | 25 4 | 4 8 | 11 31 | 0 59 | 9 12 | 1 9 | 25 9 | 3 0 | 17 42 | 0 32 | 12 48 | 1 54 | 9 42 | 0 48 | 20 18 | 0 15 | 19 8 | 4 20 | 5 8 | 5 8 | 2 3 | 3 7 | 5 15 |
| S 4 | 4 22 | 27 44 | 4 48 | 12 9 | 1 6 | 8 46 | 1 11 | 25 2 | 2 58 | 17 39 | 0 32 | 12 49 | 1 54 | 9 43 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 5 7 | 2 6 | 3 9 | 5 15 |
| S 5 | 4 45 | 28 40 | 5 12 | 12 46 | 1 13 | 8 20 | 1 13 | 24 54 | 2 56 | 17 37 | 0 32 | 12 50 | 1 54 | 9 43 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 5 6 | 2 10 | 3 10 | 5 15 |
| M 6 | 5 8 | 27 57 | 5 18 | 13 23 | 1 20 | 7 54 | 1 15 | 24 47 | 2 54 | 17 34 | 0 32 | 12 51 | 1 54 | 9 44 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 5 5 | 2 13 | 3 11 | 5 14 |
| T 7 | 5 31 | 25 46 | 5 8 | 13 59 | 1 27 | 7 27 | 1 17 | 24 39 | 2 52 | 17 32 | 0 32 | 12 52 | 1 54 | 9 44 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 5 4 | 2 17 | 3 12 | 5 14 |
| W 8 | 5 54 | 22 24 | 4 44 | 14 35 | 1 33 | 7 1 | 1 18 | 24 32 | 2 50 | 17 29 | 0 33 | 12 53 | 1 54 | 9 45 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 5 2 | 2 20 | 3 13 | 5 14 |
| T 9 | 6 17 | 18 8 | 4 8 | 15 9 | 1 40 | 6 33 | 1 20 | 24 24 | 2 48 | 17 27 | 0 33 | 12 53 | 1 54 | 9 46 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 5 1 | 2 23 | 3 14 | 5 14 |
| F 10 | 6 40 | 13 13 | 3 21 | 15 43 | 1 46 | 6 6 | 1 22 | 24 16 | 2 46 | 17 24 | 0 33 | 12 54 | 1 54 | 9 46 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 9 | 5 0 | 2 27 | 3 15 | 5 13 |
| S 11 | 7 3 | 7 52 | 2 26 | 16 15 | 1 53 | 5 39 | 1 23 | 24 7 | 2 44 | 17 22 | 0 33 | 12 55 | 1 53 | 9 47 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 9 | 4 59 | 2 30 | 3 16 | 5 13 |
| S 12 | 7 25 | 2 16 | 1 25 | 16 47 | 1 59 | 5 11 | 1 25 | 23 59 | 2 42 | 17 20 | 0 33 | 12 56 | 1 53 | 9 47 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 9 | 4 57 | 2 34 | 3 17 | 5 13 |
| M13 | 7 48 | 3s24 | 0 20 | 17 18 | 2 5 | 4 43 | 1 26 | 23 50 | 2 40 | 17 17 | 0 34 | 12 57 | 1 53 | 9 48 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 9 | 4 56 | 2 37 | 3 18 | 5 13 |
| T 14 | 8 11 | 8 58 | 0s45 | 17 48 | 2 11 | 4 15 | 1 27 | 23 41 | 2 38 | 17 15 | 0 34 | 12 57 | 1 53 | 9 49 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 9 | 4 55 | 2 41 | 3 19 | 5 12 |
| W15 | 8 33 | 14 14 | 1 49 | 18 17 | 2 16 | 3 47 | 1 28 | 23 32 | 2 36 | 17 13 | 0 34 | 12 58 | 1 53 | 9 49 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 9 | 4 54 | 2 44 | 3 20 | 5 12 |
| T 16 | 8 55 | 19 2 | 2 48 | 18 45 | 2 21 | 3 19 | 1 30 | 23 23 | 2 34 | 17 11 | 0 34 | 12 58 | 1 53 | 9 50 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 4 52 | 2 47 | 3 21 | 5 12 |
| F 17 | 9 17 | 23 7 | 3 41 | 19 12 | 2 26 | 2 50 | 1 31 | 23 14 | 2 33 | 17 9 | 0 34 | 12 59 | 1 53 | 9 50 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 8 | 4 51 | 2 51 | 3 22 | 5 11 |
| S 18 | 9 39 | 26 14 | 4 24 | 19 37 | 2 31 | 2 22 | 1 32 | 23 4 | 2 31 | 17 6 | 0 34 | 12 59 | 1 53 | 9 51 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 7 | 4 50 | 2 54 | 3 23 | 5 11 |
| S 19 | 10 1 | 28 8 | 4 55 | 20 2 | 2 35 | 1 53 | 1 33 | 22 54 | 2 29 | 17 4 | 0 35 | 13 0 | 1 53 | 9 51 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 6 | 4 49 | 2 58 | 3 24 | 5 11 |
| M20 | 10 23 | 28 38 | 5 13 | 20 25 | 2 39 | 1 24 | 1 33 | 22 44 | 2 27 | 17 2 | 0 35 | 13 0 | 1 53 | 9 51 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 6 | 4 47 | 3 1 | 3 24 | 5 11 |
| T 21 | 10 44 | 27 33 | 5 16 | 20 47 | 2 43 | 0 55 | 1 34 | 22 34 | 2 25 | 17 0 | 0 35 | 13 1 | 1 52 | 9 52 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 5 | 4 46 | 3 5 | 3 25 | 5 10 |
| W22 | 11 6 | 24 55 | 5 1 | 21 7 | 2 46 | 0 26 | 1 35 | 22 24 | 2 23 | 16 58 | 0 35 | 13 1 | 1 52 | 9 52 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 5 | 4 45 | 3 8 | 3 26 | 5 10 |
| T 23 | 11 27 | 20 48 | 4 30 | 21 26 | 2 49 | 0s 3 | 1 35 | 22 14 | 2 21 | 16 56 | 0 35 | 13 2 | 1 52 | 9 53 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 6 | 4 44 | 3 11 | 3 27 | 5 10 |
| F 24 | 11 48 | 15 26 | 3 41 | 21 44 | 2 51 | 0 32 | 1 36 | 22 3 | 2 19 | 16 54 | 0 36 | 13 2 | 1 52 | 9 53 | 0 48 | 20 18 | 0 15 | 19 7 | 4 20 | 5 6 | 4 42 | 3 15 | 3 28 | 5 9 |
| S 25 | 12 9 | 9 6 | 2 38 | 22 0 | 2 53 | 1 1 | 1 36 | 21 52 | 2 18 | 16 53 | 0 36 | 13 2 | 1 52 | 9 53 | 0 48 | 20 18 | 0 15 | 19 7 | 4 21 | 5 7 | 4 41 | 3 18 | 3 29 | 5 9 |
| S 26 | 12 30 | 2 8 | 1 23 | 22 14 | 2 54 | 1 30 | 1 37 | 21 41 | 2 16 | 16 51 | 0 36 | 13 2 | 1 52 | 9 54 | 0 48 | 20 18 | 0 15 | 19 7 | 4 21 | 5 7 | 4 40 | 3 22 | 3 29 | 5 9 |
| M27 | 12 50 | 5n 4 | 0 1 | 22 26 | 2 55 | 1 59 | 1 37 | 21 30 | 2 14 | 16 49 | 0 36 | 13 3 | 1 52 | 9 54 | 0 48 | 20 18 | 0 15 | 19 7 | 4 21 | 5 7 | 4 39 | 3 25 | 3 30 | 5 8 |
| T 28 | 13 10 | 12 2 | 1n22 | 22 37 | 2 54 | 2 28 | 1 37 | 21 19 | 2 12 | 16 47 | 0 36 | 13 3 | 1 52 | 9 54 | 0 47 | 20 18 | 0 15 | 19 7 | 4 21 | 5 7 | 4 37 | 3 29 | 3 31 | 5 8 |
| W29 | 13 30 | 18 17 | 2 38 | 22 46 | 2 53 | 2 57 | 1 37 | 21 7 | 2 10 | 16 45 | 0 37 | 13 3 | 1 52 | 9 55 | 0 47 | 20 17 | 0 15 | 19 7 | 4 21 | 5 6 | 4 36 | 3 32 | 3 32 | 5 8 |
| T 30 | 13 50 | 23 20 | 3 43 | 22 52 | 2 51 | 3 26 | 1 37 | 20 55 | 2 9 | 16 44 | 0 37 | 13 3 | 1 51 | 9 55 | 0 47 | 20 17 | 0 15 | 19 7 | 4 21 | 5 5 | 4 35 | 3 36 | 3 32 | 5 7 |
| F 31 | 14s10 | 26n48 | 4n31 | 22s56 | 2s48 | 3s55 | 1n37 | 20s44 | 2s 7 | 16n42 | 0n37 | 13s 3 | 1s51 | 9s55 | 0s47 | 20s17 | 0n15 | 19n 7 | 4s21 | 5n 4 | 4n34 | 3s39 | 3s33 | 5n 7 |

Julian Day Number = 2331288.5, Delta T = 29.26 sec
Ecliptic obliquity = 23°29'05, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'40, Lahiri = 19°15'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## NOVEMBER 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 42 4 | 8♏53'03 | 26♊29 | 0♐29 | 14♎56 | 7♒11 | 15♌57 | 0°R30 | 6°R22 | 28♉22 | 2°R52 | 12°R44 | 11♈28 | 9♎42 | 8°R44 | S 1 |
| S 2 | 2 46 0 | 9°53'16 | 10♋ 8 | 0°48 | 16°11 | 7°51 | 16° 3 | 0♓30 | 6♓22 | 28°23 | 2♋52 | 12♈40 | 11°24 | 9°49 | 8♓43 | S 2 |
| M 3 | 2 49 57 | 10°53'31 | 23°20 | 1° 0 | 17°26 | 8°31 | 16° 9 | 0°30 | 6°21 | 28°23 | 2°51 | 12°38 | 11°21 | 9°56 | 8°42 | M 3 |
| T 4 | 2 53 54 | 11°53'48 | 6♌ 6 | 1°R 3 | 18°40 | 9°12 | 16°14 | 0°D30 | 6°20 | 28°24 | 2°50 | 12°37 | 11°18 | 10° 2 | 8°41 | T 4 |
| W 5 | 2 57 50 | 12°54'07 | 18°31 | 0°58 | 19°55 | 9°53 | 16°20 | 0°30 | 6°20 | 28°25 | 2°49 | 12°D37 | 11°15 | 10° 9 | 8°41 | W 5 |
| T 6 | 3 1 47 | 13°54'28 | 0♍39 | 0°43 | 21°10 | 10°33 | 16°25 | 0°30 | 6°19 | 28°26 | 2°49 | 12°38 | 11°12 | 10°15 | 8°40 | T 6 |
| F 7 | 3 5 43 | 14°54'50 | 12°34 | 0°19 | 22°25 | 11°14 | 16°30 | 0°30 | 6°19 | 28°27 | 2°48 | 12°39 | 11° 8 | 10°22 | 8°39 | F 7 |
| S 8 | 3 9 40 | 15°55'15 | 24°23 | 29♏44 | 23°40 | 11°55 | 16°35 | 0°30 | 6°18 | 28°28 | 2°47 | 12°41 | 11° 5 | 10°29 | 8°38 | S 8 |
| S 9 | 3 13 36 | 16°55'41 | 6♎ 9 | 28°59 | 24°54 | 12°36 | 16°39 | 0°31 | 6°18 | 28°29 | 2°46 | 12°42 | 11° 2 | 10°35 | 8°38 | S 9 |
| M10 | 3 17 33 | 17°56'10 | 17°57 | 28° 4 | 26° 9 | 13°17 | 16°44 | 0°32 | 6°18 | 28°30 | 2°46 | 12°R43 | 10°59 | 10°42 | 8°37 | M10 |
| T 11 | 3 21 29 | 18°56'40 | 29°50 | 27° 1 | 27°24 | 13°58 | 16°48 | 0°32 | 6°18 | 28°31 | 2°45 | 12°41 | 10°56 | 10°49 | 8°37 | T 11 |
| W12 | 3 25 26 | 19°57'11 | 11♏49 | 25°50 | 28°39 | 14°40 | 16°52 | 0°33 | 6°17 | 28°32 | 2°44 | 12°37 | 10°53 | 10°55 | 8°36 | W12 |
| T 13 | 3 29 23 | 20°57'45 | 23°58 | 24°33 | 29°54 | 15°21 | 16°56 | 0°34 | 6°17 | 28°33 | 2°43 | 12°32 | 10°49 | 11° 2 | 8°36 | T 13 |
| F 14 | 3 33 19 | 21°58'20 | 6♐18 | 23°12 | 1♏ 9 | 16° 3 | 17° 0 | 0°35 | 6°17 | 28°34 | 2°42 | 12°25 | 10°46 | 11° 9 | 8°36 | F 14 |
| S 15 | 3 37 16 | 22°58'56 | 18°49 | 21°51 | 2°24 | 16°44 | 17° 3 | 0°36 | 6°D17 | 28°35 | 2°41 | 12°18 | 10°43 | 11°15 | 8°35 | S 15 |
| S 16 | 3 41 12 | 23°59'34 | 1♑32 | 20°31 | 3°39 | 17°26 | 17° 7 | 0°37 | 6°17 | 28°37 | 2°41 | 12°10 | 10°40 | 11°22 | 8°35 | S 16 |
| M17 | 3 45 9 | 25° 0'13 | 14°28 | 19°16 | 4°55 | 18° 7 | 17°10 | 0°39 | 6°17 | 28°38 | 2°40 | 12° 3 | 10°37 | 11°29 | 8°35 | M17 |
| T 18 | 3 49 5 | 26° 0'53 | 27°36 | 18° 8 | 6°10 | 18°49 | 17°13 | 0°40 | 6°17 | 28°39 | 2°39 | 11°58 | 10°34 | 11°35 | 8°35 | T 18 |
| W19 | 3 53 2 | 27° 1'35 | 10♒59 | 17° 8 | 7°25 | 19°31 | 17°16 | 0°42 | 6°17 | 28°40 | 2°38 | 11°55 | 10°30 | 11°42 | 8°D35 | W19 |
| T 20 | 3 56 59 | 28° 2'17 | 24°37 | 16°19 | 8°40 | 20°13 | 17°19 | 0°43 | 6°18 | 28°42 | 2°37 | 11°D53 | 10°27 | 11°48 | 8°35 | T 20 |
| F 21 | 4 0 55 | 29° 3'01 | 8♓30 | 15°40 | 9°55 | 20°55 | 17°21 | 0°45 | 6°18 | 28°43 | 2°36 | 11°54 | 10°24 | 11°55 | 8°35 | F 21 |
| S 22 | 4 4 52 | 0♐ 3'45 | 22°39 | 15°14 | 11°10 | 21°37 | 17°23 | 0°47 | 6°18 | 28°44 | 2°35 | 11°55 | 10°21 | 12° 2 | 8°35 | S 22 |
| S 23 | 4 8 48 | 1° 4'31 | 7♈ 3 | 14°58 | 12°25 | 22°19 | 17°25 | 0°49 | 6°19 | 28°46 | 2°34 | 11°R56 | 10°18 | 12° 8 | 8°35 | S 23 |
| M24 | 4 12 45 | 2° 5'17 | 21°39 | 14°D54 | 13°41 | 23° 1 | 17°27 | 0°51 | 6°19 | 28°47 | 2°33 | 11°55 | 10°14 | 12°15 | 8°36 | M24 |
| T 25 | 4 16 41 | 3° 6'05 | 6♉23 | 15° 1 | 14°56 | 23°43 | 17°29 | 0°53 | 6°20 | 28°49 | 2°32 | 11°53 | 10°11 | 12°22 | 8°36 | T 25 |
| W26 | 4 20 38 | 4° 6'53 | 21° 9 | 15°18 | 16°11 | 24°25 | 17°31 | 0°55 | 6°20 | 28°50 | 2°31 | 11°48 | 10° 8 | 12°28 | 8°36 | W26 |
| T 27 | 4 24 34 | 5° 7'43 | 5♊49 | 15°43 | 17°26 | 25° 7 | 17°32 | 0°58 | 6°21 | 28°52 | 2°30 | 11°41 | 10° 5 | 12°35 | 8°37 | T 27 |
| F 28 | 4 28 31 | 6° 8'34 | 20°16 | 16°17 | 18°42 | 25°49 | 17°33 | 1° 0 | 6°21 | 28°53 | 2°29 | 11°32 | 10° 2 | 12°42 | 8°37 | F 28 |
| S 29 | 4 32 28 | 7° 9'26 | 4♋22 | 16°58 | 19°57 | 26°32 | 17°34 | 1° 3 | 6°22 | 28°55 | 2°27 | 11°23 | 9°59 | 12°48 | 8°38 | S 29 |
| S 30 | 4 36 24 | 8♐10'20 | 18♋ 4 | 17♏46 | 21♏12 | 27♒14 | 17♌35 | 1♓ 6 | 6♓23 | 28♉56 | 2♋26 | 11♈14 | 9♈55 | 12♎55 | 8♓39 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s29 | 28n28 | 5n 2 | 22s57 | 2s44 | 4s24 | 1n37 | 20s32 | 2s 5 | 16n41 | 0n37 | 13s 3 | 1s51 | 9s55 | 0s47 | 20s17 | 0n15 | 19n 7 | 4s21 | 5n 2 | 4n32 | 3s42 | 3s34 | 5n 7 |
| S 2 | 14 48 | 28 19 | 5 14 | 22 56 | 2 38 | 4 53 | 1 37 | 20 19 | 2 3 | 16 39 | 0 37 | 13 3 | 1 51 | 9 56 | 0 47 | 20 17 | 0 15 | 19 7 | 4 21 | 5 1 | 4 31 | 3 46 | 3 35 | 5 7 |
| M 3 | 15 7 | 26 32 | 5 9 | 22 52 | 2 32 | 5 22 | 1 37 | 20 7 | 2 1 | 16 38 | 0 38 | 13 3 | 1 51 | 9 56 | 0 47 | 20 17 | 0 15 | 19 7 | 4 21 | 5 0 | 4 30 | 3 49 | 3 35 | 5 6 |
| T 4 | 15 26 | 23 26 | 4 48 | 22 45 | 2 24 | 5 50 | 1 37 | 19 55 | 2 0 | 16 36 | 0 38 | 13 3 | 1 51 | 9 56 | 0 47 | 20 17 | 0 15 | 19 6 | 4 21 | 4 59 | 4 29 | 3 53 | 3 36 | 5 6 |
| W 5 | 15 44 | 19 20 | 4 15 | 22 35 | 2 14 | 6 19 | 1 36 | 19 42 | 1 58 | 16 35 | 0 38 | 13 3 | 1 51 | 9 56 | 0 47 | 20 17 | 0 15 | 19 6 | 4 21 | 4 59 | 4 27 | 3 56 | 3 36 | 5 6 |
| T 6 | 16 3 | 14 33 | 3 30 | 22 21 | 2 3 | 6 48 | 1 36 | 19 29 | 1 56 | 16 33 | 0 38 | 13 2 | 1 51 | 9 56 | 0 47 | 20 16 | 0 15 | 19 6 | 4 21 | 5 0 | 4 26 | 4 0 | 3 37 | 5 5 |
| F 7 | 16 20 | 9 17 | 2 38 | 22 3 | 1 51 | 7 16 | 1 35 | 19 16 | 1 54 | 16 32 | 0 39 | 13 2 | 1 50 | 9 57 | 0 47 | 20 16 | 0 15 | 19 6 | 4 21 | 5 1 | 4 25 | 4 3 | 3 38 | 5 5 |
| S 8 | 16 38 | 3 45 | 1 39 | 21 42 | 1 36 | 7 44 | 1 35 | 19 3 | 1 53 | 16 31 | 0 39 | 13 2 | 1 50 | 9 57 | 0 47 | 20 16 | 0 15 | 19 6 | 4 21 | 5 1 | 4 24 | 4 6 | 3 38 | 5 5 |
| S 9 | 16 55 | 1s54 | 0 36 | 21 17 | 1 20 | 8 12 | 1 34 | 18 50 | 1 51 | 16 30 | 0 39 | 13 2 | 1 50 | 9 57 | 0 47 | 20 16 | 0 15 | 19 6 | 4 21 | 5 2 | 4 22 | 4 10 | 3 39 | 5 4 |
| M10 | 17 13 | 7 30 | 0s29 | 20 48 | 1 3 | 8 40 | 1 33 | 18 36 | 1 49 | 16 28 | 0 39 | 13 1 | 1 50 | 9 57 | 0 47 | 20 16 | 0 15 | 19 6 | 4 21 | 5 2 | 4 21 | 4 13 | 3 39 | 5 4 |
| T 11 | 17 29 | 12 52 | 1 32 | 20 15 | 0 44 | 9 8 | 1 32 | 18 23 | 1 48 | 16 27 | 0 39 | 13 1 | 1 50 | 9 57 | 0 47 | 20 15 | 0 15 | 19 6 | 4 21 | 5 1 | 4 20 | 4 17 | 3 40 | 5 3 |
| W12 | 17 46 | 17 49 | 2 32 | 19 39 | 0 25 | 9 35 | 1 32 | 18 9 | 1 46 | 16 26 | 0 40 | 13 0 | 1 50 | 9 57 | 0 47 | 20 15 | 0 15 | 19 6 | 4 21 | 5 0 | 4 19 | 4 20 | 3 40 | 5 3 |
| T 13 | 18 2 | 22 7 | 3 26 | 19 1 | 0 4 | 10 3 | 1 31 | 17 55 | 1 44 | 16 25 | 0 40 | 13 0 | 1 50 | 9 57 | 0 47 | 20 15 | 0 15 | 19 6 | 4 21 | 4 58 | 4 17 | 4 23 | 3 41 | 5 3 |
| F 14 | 18 18 | 25 31 | 4 10 | 18 21 | 0n16 | 10 30 | 1 30 | 17 41 | 1 42 | 16 24 | 0 40 | 13 0 | 1 49 | 9 57 | 0 47 | 20 15 | 0 15 | 19 6 | 4 21 | 4 55 | 4 16 | 4 27 | 3 41 | 5 2 |
| S 15 | 18 33 | 27 44 | 4 44 | 17 40 | 0 37 | 10 57 | 1 29 | 17 27 | 1 41 | 16 24 | 0 40 | 12 59 | 1 49 | 9 57 | 0 47 | 20 15 | 0 15 | 19 6 | 4 21 | 4 52 | 4 15 | 4 30 | 3 42 | 5 2 |
| S 16 | 18 48 | 28 32 | 5 4 | 17 0 | 0 57 | 11 23 | 1 28 | 17 13 | 1 39 | 16 23 | 0 40 | 12 58 | 1 49 | 9 57 | 0 47 | 20 14 | 0 15 | 19 6 | 4 21 | 4 49 | 4 14 | 4 34 | 3 42 | 5 2 |
| M17 | 19 3 | 27 49 | 5 9 | 16 22 | 1 15 | 11 50 | 1 26 | 16 58 | 1 37 | 16 22 | 0 41 | 12 58 | 1 49 | 9 57 | 0 47 | 20 14 | 0 15 | 19 6 | 4 21 | 4 46 | 4 12 | 4 37 | 3 42 | 5 1 |
| T 18 | 19 18 | 25 32 | 4 58 | 15 47 | 1 32 | 12 16 | 1 25 | 16 44 | 1 36 | 16 21 | 0 41 | 12 57 | 1 49 | 9 57 | 0 47 | 20 14 | 0 15 | 19 6 | 4 21 | 4 44 | 4 11 | 4 41 | 3 43 | 5 1 |
| W19 | 19 32 | 21 50 | 4 30 | 15 16 | 1 47 | 12 41 | 1 24 | 16 29 | 1 34 | 16 21 | 0 41 | 12 57 | 1 49 | 9 57 | 0 47 | 20 14 | 0 15 | 19 6 | 4 21 | 4 43 | 4 10 | 4 44 | 3 43 | 5 1 |
| T 20 | 19 46 | 16 55 | 3 48 | 14 50 | 2 0 | 13 7 | 1 22 | 16 14 | 1 33 | 16 20 | 0 41 | 12 56 | 1 49 | 9 56 | 0 47 | 20 13 | 0 14 | 19 7 | 4 21 | 4 43 | 4 9 | 4 47 | 3 43 | 5 0 |
| F 21 | 19 59 | 11 2 | 2 51 | 14 29 | 2 11 | 13 32 | 1 21 | 15 59 | 1 31 | 16 19 | 0 42 | 12 55 | 1 49 | 9 56 | 0 47 | 20 13 | 0 14 | 19 7 | 4 21 | 4 43 | 4 8 | 4 51 | 3 44 | 5 0 |
| S 22 | 20 12 | 4 29 | 1 42 | 14 12 | 2 20 | 13 57 | 1 20 | 15 44 | 1 29 | 16 19 | 0 42 | 12 54 | 1 48 | 9 56 | 0 47 | 20 13 | 0 14 | 19 7 | 4 21 | 4 43 | 4 6 | 4 54 | 3 44 | 5 0 |
| S 23 | 20 25 | 2n24 | 0 26 | 14 1 | 2 26 | 14 21 | 1 18 | 15 29 | 1 28 | 16 19 | 0 42 | 12 53 | 1 48 | 9 56 | 0 46 | 20 13 | 0 14 | 19 7 | 4 21 | 4 43 | 4 5 | 4 58 | 3 44 | 4 59 |
| M24 | 20 37 | 9 16 | 0n52 | 13 56 | 2 31 | 14 45 | 1 16 | 15 14 | 1 26 | 16 18 | 0 42 | 12 53 | 1 48 | 9 56 | 0 46 | 20 12 | 0 14 | 19 7 | 4 21 | 4 43 | 4 4 | 5 1 | 3 44 | 4 59 |
| T 25 | 20 49 | 15 41 | 2 8 | 13 55 | 2 34 | 15 9 | 1 15 | 14 58 | 1 25 | 16 18 | 0 43 | 12 52 | 1 48 | 9 56 | 0 46 | 20 12 | 0 14 | 19 7 | 4 21 | 4 42 | 4 3 | 5 4 | 3 45 | 4 59 |
| W26 | 21 1 | 21 13 | 3 15 | 13 58 | 2 36 | 15 33 | 1 13 | 14 43 | 1 23 | 16 18 | 0 43 | 12 51 | 1 48 | 9 55 | 0 46 | 20 12 | 0 14 | 19 7 | 4 21 | 4 41 | 4 1 | 5 8 | 3 45 | 4 58 |
| T 27 | 21 12 | 25 23 | 4 8 | 14 5 | 2 36 | 15 56 | 1 11 | 14 27 | 1 21 | 16 17 | 0 43 | 12 50 | 1 48 | 9 55 | 0 46 | 20 12 | 0 14 | 19 7 | 4 21 | 4 38 | 4 0 | 5 11 | 3 45 | 4 58 |
| F 28 | 21 22 | 27 52 | 4 45 | 14 16 | 2 35 | 16 18 | 1 10 | 14 11 | 1 20 | 16 17 | 0 43 | 12 49 | 1 48 | 9 55 | 0 46 | 20 11 | 0 14 | 19 7 | 4 21 | 4 34 | 3 59 | 5 15 | 3 45 | 4 58 |
| S 29 | 21 33 | 28 28 | 5 3 | 14 30 | 2 33 | 16 40 | 1 8 | 13 55 | 1 18 | 16 17 | 0 44 | 12 48 | 1 48 | 9 55 | 0 46 | 20 11 | 0 14 | 19 7 | 4 21 | 4 31 | 3 58 | 5 18 | 3 45 | 4 57 |
| S 30 | 21s43 | 27n16 | 5n 3 | 14s46 | 2n30 | 17s 2 | 1n 6 | 13s39 | 1s17 | 16n17 | 0n44 | 12s47 | 1s47 | 9s54 | 0s46 | 20s11 | 0n14 | 19n 7 | 4s21 | 4n27 | 3n56 | 5s21 | 3s45 | 4n57 |

Julian Day Number = 2331319.5, Delta T = 29.21 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'44, Lahiri = 19°15'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1670
# geocentric

## DECEMBER 1670 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 40 21 | 9♐11'14 | 1♌20 | 18♏39 | 22♏27 | 27♒56 | 17♌36 | 1♓ 8 | 6♓23 | 28♑58 | 2°R25 | 11°R 6 | 9♈52 | 13♎ 2 | 8♓39 | M 1 |
| T 2 | 4 44 17 | 10°12'10 | 14°11 | 19°37 | 23°43 | 28°39 | 17°36 | 1°11 | 6°24 | 28°59 | 2♋24 | 11♈ 0 | 9°49 | 13° 8 | 8°40 | T 2 |
| W 3 | 4 48 14 | 11°13'07 | 26°39 | 20°39 | 24°58 | 29°21 | 17°R36 | 1°14 | 6°25 | 29° 1 | 2°23 | 10°57 | 9°46 | 13°15 | 8°41 | W 3 |
| T 4 | 4 52 10 | 12°14'05 | 8♍49 | 21°46 | 26°13 | 0♓ 3 | 17°36 | 1°17 | 6°26 | 29° 3 | 2°22 | 10°D55 | 9°43 | 13°22 | 8°42 | T 4 |
| F 5 | 4 56 7 | 13°15'04 | 20°45 | 22°55 | 27°29 | 0°46 | 17°36 | 1°20 | 6°27 | 29° 5 | 2°21 | 10°56 | 9°40 | 13°28 | 8°43 | F 5 |
| S 6 | 5 0 3 | 14°16'05 | 2♎34 | 24° 8 | 28°44 | 1°28 | 17°35 | 1°23 | 6°28 | 29° 6 | 2°20 | 10°56 | 9°36 | 13°35 | 8°43 | S 6 |
| S 7 | 5 4 0 | 15°17'06 | 14°21 | 25°23 | 29°59 | 2°11 | 17°35 | 1°27 | 6°29 | 29° 8 | 2°19 | 10°R56 | 9°33 | 13°41 | 8°45 | S 7 |
| M 8 | 5 7 57 | 16°18'09 | 26°10 | 26°40 | 1♐15 | 2°54 | 17°34 | 1°30 | 6°30 | 29°10 | 2°17 | 10°55 | 9°30 | 13°48 | 8°46 | M 8 |
| T 9 | 5 11 53 | 17°19'12 | 8♏ 7 | 27°59 | 2°30 | 3°36 | 17°33 | 1°34 | 6°31 | 29°12 | 2°16 | 10°51 | 9°27 | 13°55 | 8°47 | T 9 |
| W10 | 5 15 50 | 18°20'17 | 20°15 | 29°19 | 3°46 | 4°19 | 17°32 | 1°37 | 6°33 | 29°13 | 2°15 | 10°45 | 9°24 | 14° 1 | 8°48 | W10 |
| T 11 | 5 19 46 | 19°21'22 | 2♐36 | 0♐41 | 5° 1 | 5° 1 | 17°30 | 1°41 | 6°34 | 29°15 | 2°14 | 10°36 | 9°20 | 14° 8 | 8°49 | T 11 |
| F 12 | 5 23 43 | 20°22'29 | 15°12 | 2° 4 | 6°17 | 5°44 | 17°29 | 1°45 | 6°35 | 29°17 | 2°13 | 10°25 | 9°17 | 14°15 | 8°51 | F 12 |
| S 13 | 5 27 39 | 21°23'36 | 28° 3 | 3°29 | 7°32 | 6°27 | 17°27 | 1°49 | 6°37 | 29°19 | 2°11 | 10°12 | 9°14 | 14°21 | 8°52 | S 13 |
| S 14 | 5 31 36 | 22°24'43 | 11♑ 8 | 4°54 | 8°47 | 7° 9 | 17°25 | 1°53 | 6°38 | 29°21 | 2°10 | 9°59 | 9°11 | 14°28 | 8°53 | S 14 |
| M15 | 5 35 32 | 23°25'51 | 24°26 | 6°20 | 10° 3 | 7°52 | 17°23 | 1°57 | 6°40 | 29°23 | 2° 9 | 9°47 | 9° 8 | 14°35 | 8°55 | M15 |
| T 16 | 5 39 29 | 24°26'59 | 7♒55 | 7°47 | 11°18 | 8°35 | 17°21 | 2° 1 | 6°41 | 29°25 | 2° 8 | 9°37 | 9° 5 | 14°41 | 8°56 | T 16 |
| W17 | 5 43 26 | 25°28'08 | 21°33 | 9°14 | 12°34 | 9°18 | 17°18 | 2° 5 | 6°43 | 29°27 | 2° 7 | 9°30 | 9° 1 | 14°48 | 8°58 | W17 |
| T 18 | 5 47 22 | 26°29'16 | 5♓19 | 10°42 | 13°49 | 10° 1 | 17°15 | 2° 9 | 6°44 | 29°29 | 2° 5 | 9°26 | 8°58 | 14°55 | 9° 0 | T 18 |
| F 19 | 5 51 19 | 27°30'25 | 19°13 | 12°11 | 15° 5 | 10°43 | 17°12 | 2°14 | 6°46 | 29°31 | 2° 4 | 9°25 | 8°55 | 15° 1 | 9° 1 | F 19 |
| S 20 | 5 55 15 | 28°31'34 | 3♈14 | 13°40 | 16°20 | 11°26 | 17° 9 | 2°18 | 6°48 | 29°33 | 2° 3 | 9°25 | 8°52 | 15° 8 | 9° 3 | S 20 |
| S 21 | 5 59 12 | 29°32'42 | 17°21 | 15° 9 | 17°35 | 12° 9 | 17° 6 | 2°23 | 6°49 | 29°35 | 2° 2 | 9°25 | 8°49 | 15°15 | 9° 5 | S 21 |
| M22 | 6 3 8 | 0♑33'51 | 1♉35 | 16°39 | 18°51 | 12°52 | 17° 2 | 2°27 | 6°51 | 29°37 | 2° 1 | 9°23 | 8°46 | 15°21 | 9° 7 | M22 |
| T 23 | 6 7 5 | 1°35'00 | 15°53 | 18° 9 | 20° 6 | 13°35 | 16°59 | 2°32 | 6°53 | 29°39 | 1°59 | 9°19 | 8°42 | 15°28 | 9° 9 | T 23 |
| W24 | 6 11 1 | 2°36'09 | 0♊11 | 19°40 | 21°22 | 14°17 | 16°55 | 2°37 | 6°55 | 29°41 | 1°58 | 9°12 | 8°39 | 15°34 | 9°11 | W24 |
| T 25 | 6 14 58 | 3°37'17 | 14°26 | 21°11 | 22°37 | 15° 0 | 16°51 | 2°41 | 6°57 | 29°43 | 1°57 | 9° 3 | 8°36 | 15°41 | 9°13 | T 25 |
| F 26 | 6 18 55 | 4°38'26 | 28°32 | 22°42 | 23°53 | 15°43 | 16°46 | 2°46 | 6°59 | 29°45 | 1°56 | 8°51 | 8°33 | 15°48 | 9°15 | F 26 |
| S 27 | 6 22 51 | 5°39'35 | 12♋23 | 24°14 | 25° 8 | 16°26 | 16°42 | 2°51 | 7° 1 | 29°47 | 1°54 | 8°38 | 8°30 | 15°54 | 9°17 | S 27 |
| S 28 | 6 26 48 | 6°40'44 | 25°55 | 25°46 | 26°24 | 17° 9 | 16°38 | 2°56 | 7° 3 | 29°49 | 1°53 | 8°25 | 8°26 | 16° 1 | 9°19 | S 28 |
| M29 | 6 30 44 | 7°41'54 | 9♌ 7 | 27°18 | 27°39 | 17°52 | 16°33 | 3° 2 | 7° 5 | 29°51 | 1°52 | 8°13 | 8°23 | 16° 8 | 9°21 | M29 |
| T 30 | 6 34 41 | 8°43'03 | 21°56 | 28°51 | 28°54 | 18°34 | 16°28 | 3° 7 | 7° 7 | 29°54 | 1°51 | 8° 4 | 8°20 | 16°14 | 9°23 | T 30 |
| W31 | 6 38 37 | 9♑44'12 | 4♍24 | 0♑24 | 0♑10 | 19♓17 | 16♌23 | 3♓12 | 7♓ 9 | 29♑56 | 1♋50 | 7♈58 | 8♈17 | 16♎21 | 9♓26 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s52 | 24n34 | 4n47 | 15s 4 | 2n26 | 17s23 | 1n 4 | 13s23 | 1s15 | 16n17 | 0n44 | 12s46 | 1s47 | 9s54 | 0s46 | 20s10 | 0n14 | 19n 7 | 4s21 | 4n24 | 3n55 | 5s25 | 3s45 | 4n56 |
| T 2 | 22 1 | 20 41 | 4 16 | 15 25 | 2 21 | 17 44 | 1 2 | 13 7 | 1 14 | 16 17 | 0 44 | 12 45 | 1 47 | 9 54 | 0 46 | 20 10 | 0 14 | 19 7 | 4 21 | 4 22 | 3 54 | 5 28 | 3 45 | 4 56 |
| W 3 | 22 10 | 16 0 | 3 34 | 15 46 | 2 16 | 18 4 | 1 0 | 12 51 | 1 12 | 16 18 | 0 44 | 12 43 | 1 47 | 9 53 | 0 46 | 20 10 | 0 14 | 19 7 | 4 21 | 4 20 | 3 53 | 5 32 | 3 45 | 4 56 |
| T 4 | 22 18 | 10 48 | 2 43 | 16 9 | 2 10 | 18 24 | 0 58 | 12 35 | 1 11 | 16 18 | 0 45 | 12 42 | 1 47 | 9 53 | 0 46 | 20 9 | 0 14 | 19 7 | 4 21 | 4 20 | 3 51 | 5 35 | 3 45 | 4 55 |
| F 5 | 22 26 | 5 18 | 1 46 | 16 33 | 2 4 | 18 44 | 0 56 | 12 18 | 1 9 | 16 18 | 0 45 | 12 41 | 1 47 | 9 52 | 0 46 | 20 9 | 0 14 | 19 7 | 4 21 | 4 20 | 3 50 | 5 39 | 3 45 | 4 55 |
| S 6 | 22 33 | 0s20 | 0 45 | 16 57 | 1 57 | 19 2 | 0 54 | 12 2 | 1 8 | 16 18 | 0 45 | 12 40 | 1 47 | 9 52 | 0 46 | 20 9 | 0 14 | 19 7 | 4 21 | 4 20 | 3 49 | 5 42 | 3 45 | 4 55 |
| S 7 | 22 40 | 5 57 | 0s18 | 17 22 | 1 50 | 19 21 | 0 52 | 11 45 | 1 6 | 16 19 | 0 45 | 12 38 | 1 47 | 9 52 | 0 46 | 20 8 | 0 14 | 19 7 | 4 21 | 4 20 | 3 48 | 5 45 | 3 45 | 4 54 |
| M 8 | 22 47 | 11 22 | 1 20 | 17 46 | 1 43 | 19 38 | 0 50 | 11 28 | 1 5 | 16 19 | 0 46 | 12 37 | 1 46 | 9 51 | 0 46 | 20 8 | 0 14 | 19 7 | 4 21 | 4 20 | 3 46 | 5 49 | 3 45 | 4 54 |
| T 9 | 22 53 | 16 26 | 2 19 | 18 11 | 1 36 | 19 56 | 0 47 | 11 11 | 1 3 | 16 20 | 0 46 | 12 36 | 1 46 | 9 51 | 0 46 | 20 8 | 0 14 | 19 7 | 4 21 | 4 18 | 3 45 | 5 52 | 3 45 | 4 54 |
| W10 | 22 58 | 20 56 | 3 13 | 18 36 | 1 29 | 20 12 | 0 45 | 10 55 | 1 2 | 16 20 | 0 46 | 12 34 | 1 46 | 9 50 | 0 46 | 20 7 | 0 14 | 19 7 | 4 21 | 4 16 | 3 44 | 5 55 | 3 45 | 4 53 |
| T 11 | 23 3 | 24 37 | 3 58 | 19 1 | 1 21 | 20 28 | 0 43 | 10 38 | 1 1 | 16 21 | 0 46 | 12 33 | 1 46 | 9 50 | 0 46 | 20 7 | 0 14 | 19 7 | 4 21 | 4 12 | 3 43 | 5 59 | 3 45 | 4 53 |
| F 12 | 23 8 | 27 11 | 4 33 | 19 25 | 1 13 | 20 44 | 0 41 | 10 21 | 0 59 | 16 22 | 0 47 | 12 31 | 1 46 | 9 49 | 0 46 | 20 7 | 0 14 | 19 7 | 4 21 | 4 8 | 3 41 | 6 2 | 3 45 | 4 53 |
| S 13 | 23 12 | 28 23 | 4 55 | 19 49 | 1 6 | 20 59 | 0 38 | 10 3 | 0 58 | 16 23 | 0 47 | 12 30 | 1 46 | 9 49 | 0 46 | 20 6 | 0 14 | 19 7 | 4 21 | 4 3 | 3 40 | 6 6 | 3 44 | 4 52 |
| S 14 | 23 16 | 28 1 | 5 1 | 20 12 | 0 58 | 21 13 | 0 36 | 9 46 | 0 56 | 16 23 | 0 47 | 12 28 | 1 46 | 9 48 | 0 46 | 20 6 | 0 14 | 19 7 | 4 21 | 3 58 | 3 39 | 6 9 | 3 44 | 4 52 |
| M15 | 23 19 | 26 3 | 4 52 | 20 35 | 0 50 | 21 27 | 0 34 | 9 29 | 0 55 | 16 24 | 0 47 | 12 27 | 1 46 | 9 47 | 0 46 | 20 5 | 0 14 | 19 7 | 4 21 | 3 53 | 3 38 | 6 12 | 3 44 | 4 52 |
| T 16 | 23 22 | 22 36 | 4 26 | 20 57 | 0 43 | 21 40 | 0 31 | 9 12 | 0 54 | 16 25 | 0 48 | 12 25 | 1 46 | 9 47 | 0 46 | 20 5 | 0 14 | 19 7 | 4 21 | 3 49 | 3 36 | 6 16 | 3 44 | 4 51 |
| W17 | 23 24 | 17 53 | 3 45 | 21 18 | 0 35 | 21 52 | 0 29 | 8 54 | 0 52 | 16 26 | 0 48 | 12 24 | 1 45 | 9 46 | 0 46 | 20 5 | 0 14 | 19 8 | 4 21 | 3 46 | 3 35 | 6 19 | 3 43 | 4 51 |
| T 18 | 23 26 | 12 13 | 2 50 | 21 38 | 0 28 | 22 4 | 0 26 | 8 37 | 0 51 | 16 27 | 0 48 | 12 22 | 1 45 | 9 46 | 0 46 | 20 4 | 0 14 | 19 8 | 4 21 | 3 45 | 3 34 | 6 23 | 3 43 | 4 51 |
| F 19 | 23 28 | 5 53 | 1 45 | 21 58 | 0 20 | 22 15 | 0 24 | 8 19 | 0 50 | 16 28 | 0 48 | 12 20 | 1 45 | 9 45 | 0 46 | 20 4 | 0 14 | 19 8 | 4 20 | 3 44 | 3 32 | 6 26 | 3 43 | 4 50 |
| S 20 | 23 29 | 0n47 | 0 33 | 22 16 | 0 13 | 22 25 | 0 22 | 8 2 | 0 48 | 16 30 | 0 49 | 12 19 | 1 45 | 9 44 | 0 45 | 20 3 | 0 14 | 19 8 | 4 20 | 3 44 | 3 31 | 6 29 | 3 42 | 4 50 |
| S 21 | 23 29 | 7 28 | 0n42 | 22 34 | 0 5 | 22 35 | 0 19 | 7 44 | 0 47 | 16 31 | 0 49 | 12 17 | 1 45 | 9 44 | 0 45 | 20 3 | 0 14 | 19 8 | 4 20 | 3 44 | 3 30 | 6 33 | 3 42 | 4 50 |
| M22 | 23 29 | 13 50 | 1 54 | 22 51 | 0s 2 | 22 44 | 0 17 | 7 27 | 0 46 | 16 32 | 0 49 | 12 15 | 1 45 | 9 43 | 0 45 | 20 3 | 0 14 | 19 8 | 4 20 | 3 44 | 3 29 | 6 36 | 3 42 | 4 49 |
| T 23 | 23 28 | 19 29 | 3 0 | 23 6 | 0 9 | 22 53 | 0 14 | 7 9 | 0 44 | 16 34 | 0 49 | 12 13 | 1 45 | 9 42 | 0 45 | 20 2 | 0 14 | 19 8 | 4 20 | 3 42 | 3 27 | 6 40 | 3 41 | 4 49 |
| W24 | 23 28 | 24 2 | 3 54 | 23 21 | 0 16 | 23 0 | 0 12 | 6 51 | 0 43 | 16 35 | 0 49 | 12 11 | 1 45 | 9 41 | 0 45 | 20 2 | 0 14 | 19 8 | 4 20 | 3 39 | 3 26 | 6 43 | 3 41 | 4 49 |
| T 25 | 23 26 | 27 6 | 4 33 | 23 34 | 0 23 | 23 7 | 0 9 | 6 33 | 0 42 | 16 36 | 0 50 | 12 10 | 1 45 | 9 41 | 0 45 | 20 1 | 0 14 | 19 8 | 4 20 | 3 36 | 3 25 | 6 46 | 3 40 | 4 49 |
| F 26 | 23 24 | 28 24 | 4 55 | 23 47 | 0 30 | 23 14 | 0 7 | 6 16 | 0 40 | 16 38 | 0 50 | 12 8 | 1 45 | 9 40 | 0 45 | 20 1 | 0 14 | 19 8 | 4 20 | 3 31 | 3 24 | 6 50 | 3 40 | 4 48 |
| S 27 | 23 22 | 27 52 | 4 59 | 23 58 | 0 36 | 23 19 | 0 4 | 5 58 | 0 39 | 16 39 | 0 50 | 12 6 | 1 44 | 9 39 | 0 45 | 20 0 | 0 14 | 19 8 | 4 20 | 3 26 | 3 22 | 6 53 | 3 39 | 4 48 |
| S 28 | 23 19 | 25 41 | 4 46 | 24 8 | 0 43 | 23 24 | 0 2 | 5 40 | 0 38 | 16 41 | 0 50 | 12 4 | 1 44 | 9 38 | 0 45 | 20 0 | 0 14 | 19 8 | 4 20 | 3 21 | 3 21 | 6 56 | 3 39 | 4 48 |
| M29 | 23 16 | 22 10 | 4 18 | 24 17 | 0 49 | 23 28 | 0s 0 | 5 22 | 0 37 | 16 43 | 0 51 | 12 2 | 1 44 | 9 38 | 0 45 | 20 0 | 0 14 | 19 8 | 4 20 | 3 16 | 3 20 | 7 0 | 3 38 | 4 47 |
| T 30 | 23 12 | 17 39 | 3 38 | 24 24 | 0 55 | 23 32 | 0 3 | 5 4 | 0 35 | 16 44 | 0 51 | 12 0 | 1 44 | 9 37 | 0 45 | 19 59 | 0 14 | 19 8 | 4 20 | 3 12 | 3 19 | 7 3 | 3 38 | 4 47 |
| W31 | 23s 8 | 12n30 | 2n47 | 24s30 | 1s 1 | 23s34 | 0s 5 | 4s46 | 0s34 | 16n46 | 0n51 | 11s58 | 1s44 | 9s36 | 0s45 | 19s59 | 0n14 | 19n 9 | 4s20 | 3n10 | 3n17 | 7s 7 | 3s37 | 4n47 |

Julian Day Number = 2331349.5, Delta T = 29.16 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'48, Lahiri = 19°15'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## JANUARY 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 42 34 | 10♉45'21 | 16♍36 | 1♉57 | 1♉25 | 20♓ 0 | 16°R18 | 3♓17 | 7♓11 | 29♉58 | 1°R48 | 7°R55 | 8♈14 | 16♎28 | 9♓28 | T 1 |
| F 2 | 6 46 31 | 11°46'31 | 28°33 | 3°31 | 2°41 | 20°43 | 16♌12 | 3°23 | 7°14 | 0♒ 0 | 1♋47 | 7♈53 | 8°11 | 16°34 | 9°30 | F 2 |
| S 3 | 6 50 27 | 12°47'41 | 10♎23 | 5° 6 | 3°56 | 21°26 | 16° 7 | 3°28 | 7°16 | 0° 2 | 1°46 | 7°53 | 8° 7 | 16°41 | 9°33 | S 3 |
| S 4 | 6 54 24 | 13°48'50 | 22°11 | 6°40 | 5°12 | 22° 9 | 16° 1 | 3°34 | 7°18 | 0° 4 | 1°45 | 7°53 | 8° 4 | 16°48 | 9°35 | S 4 |
| M 5 | 6 58 20 | 14°50'00 | 4♏ 1 | 8°15 | 6°27 | 22°51 | 15°55 | 3°39 | 7°21 | 0° 7 | 1°44 | 7°52 | 8° 1 | 16°54 | 9°38 | M 5 |
| T 6 | 7 2 17 | 15°51'10 | 16° 0 | 9°51 | 7°43 | 23°34 | 15°49 | 3°45 | 7°23 | 0° 9 | 1°42 | 7°48 | 7°58 | 17° 1 | 9°40 | T 6 |
| W 7 | 7 6 13 | 16°52'19 | 28°12 | 11°27 | 8°58 | 24°17 | 15°43 | 3°51 | 7°26 | 0°11 | 1°41 | 7°42 | 7°55 | 17° 8 | 9°43 | W 7 |
| T 8 | 7 10 10 | 17°53'29 | 10♐41 | 13° 3 | 10°13 | 25° 0 | 15°37 | 3°57 | 7°28 | 0°13 | 1°40 | 7°33 | 7°52 | 17°14 | 9°46 | T 8 |
| F 9 | 7 14 6 | 18°54'38 | 23°30 | 14°40 | 11°29 | 25°43 | 15°31 | 4° 2 | 7°31 | 0°16 | 1°39 | 7°22 | 7°48 | 17°21 | 9°48 | F 9 |
| S 10 | 7 18 3 | 19°55'47 | 6♑38 | 16°17 | 12°44 | 26°25 | 15°24 | 4° 8 | 7°33 | 0°18 | 1°38 | 7° 9 | 7°45 | 17°27 | 9°51 | S 10 |
| S 11 | 7 22 0 | 20°56'56 | 20° 5 | 17°55 | 14° 0 | 27° 8 | 15°17 | 4°14 | 7°36 | 0°20 | 1°37 | 6°56 | 7°42 | 17°34 | 9°54 | S 11 |
| M12 | 7 25 56 | 21°58'04 | 3♒48 | 19°34 | 15°15 | 27°51 | 15°11 | 4°20 | 7°38 | 0°22 | 1°35 | 6°44 | 7°39 | 17°41 | 9°57 | M12 |
| T 13 | 7 29 53 | 22°59'12 | 17°44 | 21°13 | 16°31 | 28°34 | 15° 4 | 4°26 | 7°41 | 0°25 | 1°34 | 6°34 | 7°36 | 17°47 | 9°59 | T 13 |
| W14 | 7 33 49 | 24° 0'18 | 1♓48 | 22°52 | 17°46 | 29°16 | 14°57 | 4°33 | 7°44 | 0°27 | 1°33 | 6°27 | 7°32 | 17°54 | 10° 2 | W14 |
| T 15 | 7 37 46 | 25° 1'24 | 15°56 | 24°32 | 19° 1 | 29°59 | 14°50 | 4°39 | 7°46 | 0°29 | 1°32 | 6°23 | 7°29 | 18° 1 | 10° 5 | T 15 |
| F 16 | 7 41 42 | 26° 2'29 | 0♈ 5 | 26°13 | 20°17 | 0♈42 | 14°43 | 4°45 | 7°49 | 0°31 | 1°31 | 6°D21 | 7°26 | 18° 7 | 10° 8 | F 16 |
| S 17 | 7 45 39 | 27° 3'33 | 14°13 | 27°54 | 21°32 | 1°25 | 14°35 | 4°51 | 7°52 | 0°34 | 1°30 | 6°21 | 7°23 | 18°14 | 10°11 | S 17 |
| S 18 | 7 49 35 | 28° 4'36 | 28°19 | 29°36 | 22°48 | 2° 7 | 14°28 | 4°58 | 7°55 | 0°36 | 1°29 | 6°R22 | 7°20 | 18°21 | 10°14 | S 18 |
| M19 | 7 53 32 | 29° 5'38 | 12♉21 | 1♒18 | 24° 3 | 2°50 | 14°21 | 5° 4 | 7°58 | 0°38 | 1°28 | 6°21 | 7°17 | 18°27 | 10°17 | M19 |
| T 20 | 7 57 29 | 0♒ 6'39 | 26°20 | 3° 1 | 25°18 | 3°33 | 14°13 | 5°11 | 8° 0 | 0°40 | 1°27 | 6°18 | 7°13 | 18°34 | 10°20 | T 20 |
| W21 | 8 1 25 | 1° 7'39 | 10♊14 | 4°44 | 26°34 | 4°15 | 14° 5 | 5°17 | 8° 3 | 0°43 | 1°26 | 6°13 | 7°10 | 18°41 | 10°24 | W21 |
| T 22 | 8 5 22 | 2° 8'37 | 24° 1 | 6°28 | 27°49 | 4°58 | 13°58 | 5°24 | 8° 6 | 0°45 | 1°25 | 6° 4 | 7° 7 | 18°47 | 10°27 | T 22 |
| F 23 | 8 9 18 | 3° 9'35 | 7♋39 | 8°13 | 29° 4 | 5°40 | 13°50 | 5°30 | 8° 9 | 0°47 | 1°24 | 5°54 | 7° 4 | 18°54 | 10°30 | F 23 |
| S 24 | 8 13 15 | 4°10'31 | 21° 5 | 9°58 | 0♒20 | 6°23 | 13°42 | 5°37 | 8°12 | 0°50 | 1°23 | 5°43 | 7° 1 | 19° 1 | 10°33 | S 24 |
| S 25 | 8 17 11 | 5°11'27 | 4♌17 | 11°43 | 1°35 | 7° 6 | 13°35 | 5°43 | 8°15 | 0°52 | 1°22 | 5°32 | 6°58 | 19° 7 | 10°37 | S 25 |
| M26 | 8 21 8 | 6°12'21 | 17°12 | 13°29 | 2°50 | 7°48 | 13°27 | 5°50 | 8°18 | 0°54 | 1°21 | 5°22 | 6°54 | 19°14 | 10°40 | M26 |
| T 27 | 8 25 5 | 7°13'15 | 29°51 | 15°15 | 4° 6 | 8°31 | 13°19 | 5°57 | 8°21 | 0°56 | 1°20 | 5°15 | 6°51 | 19°20 | 10°43 | T 27 |
| W28 | 8 29 1 | 8°14'07 | 12♍14 | 17° 1 | 5°21 | 9°13 | 13°11 | 6° 4 | 8°24 | 0°59 | 1°19 | 5° 9 | 6°48 | 19°27 | 10°46 | W28 |
| T 29 | 8 32 58 | 9°14'58 | 24°23 | 18°47 | 6°36 | 9°55 | 13° 3 | 6°10 | 8°27 | 1° 1 | 1°18 | 5° 6 | 6°45 | 19°34 | 10°50 | T 29 |
| F 30 | 8 36 54 | 10°15'49 | 6♎20 | 20°34 | 7°52 | 10°38 | 12°55 | 6°17 | 8°31 | 1° 3 | 1°17 | 5°D 6 | 6°42 | 19°40 | 10°53 | F 30 |
| S 31 | 8 40 51 | 11♒16'38 | 18♎10 | 22♒20 | 9♒ 7 | 11♈20 | 12♌47 | 6♓24 | 8♓34 | 1♒ 5 | 1♋16 | 5♈ 7 | 6♈38 | 19♎47 | 10♓57 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 3 | 7n 0 | 1n50 | 24s35 | 1s 7 | 23s36 | 0s 8 | 4s28 | 0s33 | 16n48 | 0n51 | 11s56 | 1s44 | 9s35 | 0s45 | 19s58 | 0n14 | 19n 9 | 4s20 | 3n 9 | 3n16 | 7s10 | 3s37 | 4n46 |
| F 2 | 22 58 | 1 20 | 0 49 | 24 39 | 1 12 | 23 38 | 0 10 | 4 10 | 0 32 | 16 50 | 0 51 | 11 54 | 1 44 | 9 34 | 0 45 | 19 58 | 0 14 | 19 9 | 4 20 | 3 8 | 3 15 | 7 13 | 3 36 | 4 46 |
| S 3 | 22 52 | 4s19 | 0s13 | 24 41 | 1 18 | 23 38 | 0 13 | 3 52 | 0 30 | 16 52 | 0 52 | 11 52 | 1 44 | 9 33 | 0 45 | 19 57 | 0 14 | 19 9 | 4 20 | 3 8 | 3 14 | 7 17 | 3 35 | 4 46 |
| S 4 | 22 46 | 9 49 | 1 15 | 24 42 | 1 23 | 23 38 | 0 15 | 3 34 | 0 29 | 16 53 | 0 52 | 11 50 | 1 44 | 9 32 | 0 45 | 19 57 | 0 14 | 19 9 | 4 19 | 3 8 | 3 12 | 7 20 | 3 35 | 4 46 |
| M 5 | 22 39 | 14 59 | 2 14 | 24 41 | 1 28 | 23 37 | 0 17 | 3 16 | 0 28 | 16 55 | 0 52 | 11 48 | 1 44 | 9 31 | 0 45 | 19 56 | 0 14 | 19 9 | 4 19 | 3 7 | 3 11 | 7 23 | 3 34 | 4 45 |
| T 6 | 22 32 | 19 39 | 3 7 | 24 39 | 1 32 | 23 35 | 0 20 | 2 58 | 0 27 | 16 57 | 0 52 | 11 46 | 1 44 | 9 31 | 0 45 | 19 56 | 0 14 | 19 9 | 4 19 | 3 6 | 3 10 | 7 27 | 3 33 | 4 45 |
| W 7 | 22 25 | 23 35 | 3 53 | 24 36 | 1 36 | 23 33 | 0 22 | 2 40 | 0 26 | 16 59 | 0 52 | 11 43 | 1 44 | 9 30 | 0 45 | 19 56 | 0 14 | 19 9 | 4 19 | 3 4 | 3 9 | 7 30 | 3 33 | 4 45 |
| T 8 | 22 17 | 26 32 | 4 29 | 24 31 | 1 41 | 23 30 | 0 24 | 2 22 | 0 25 | 17 1 | 0 53 | 11 41 | 1 43 | 9 29 | 0 45 | 19 55 | 0 14 | 19 9 | 4 19 | 3 0 | 3 7 | 7 33 | 3 32 | 4 45 |
| F 9 | 22 9 | 28 11 | 4 52 | 24 24 | 1 44 | 23 26 | 0 27 | 2 4 | 0 23 | 17 3 | 0 53 | 11 39 | 1 43 | 9 28 | 0 45 | 19 55 | 0 14 | 19 9 | 4 19 | 2 56 | 3 6 | 7 37 | 3 31 | 4 44 |
| S 10 | 22 0 | 28 19 | 5 1 | 24 16 | 1 48 | 23 21 | 0 29 | 1 46 | 0 22 | 17 6 | 0 53 | 11 37 | 1 43 | 9 27 | 0 45 | 19 54 | 0 14 | 19 9 | 4 19 | 2 51 | 3 5 | 7 40 | 3 30 | 4 44 |
| S 11 | 21 51 | 26 48 | 4 53 | 24 7 | 1 51 | 23 16 | 0 31 | 1 28 | 0 21 | 17 8 | 0 53 | 11 35 | 1 43 | 9 26 | 0 45 | 19 54 | 0 14 | 19 10 | 4 19 | 2 45 | 3 4 | 7 44 | 3 29 | 4 44 |
| M12 | 21 41 | 23 41 | 4 28 | 23 56 | 1 54 | 23 10 | 0 33 | 1 10 | 0 20 | 17 10 | 0 53 | 11 32 | 1 43 | 9 25 | 0 45 | 19 53 | 0 14 | 19 10 | 4 19 | 2 41 | 3 2 | 7 47 | 3 29 | 4 43 |
| T 13 | 21 31 | 19 9 | 3 47 | 23 44 | 1 57 | 23 3 | 0 36 | 0 52 | 0 19 | 17 12 | 0 54 | 11 30 | 1 43 | 9 24 | 0 45 | 19 53 | 0 14 | 19 10 | 4 19 | 2 37 | 3 1 | 7 50 | 3 28 | 4 43 |
| W14 | 21 21 | 13 32 | 2 52 | 23 30 | 1 59 | 22 56 | 0 38 | 0 34 | 0 18 | 17 14 | 0 54 | 11 28 | 1 43 | 9 23 | 0 45 | 19 52 | 0 14 | 19 10 | 4 19 | 2 34 | 3 0 | 7 54 | 3 27 | 4 43 |
| T 15 | 21 10 | 7 11 | 1 46 | 23 14 | 2 1 | 22 47 | 0 40 | 0 16 | 0 17 | 17 17 | 0 54 | 11 25 | 1 43 | 9 22 | 0 45 | 19 52 | 0 14 | 19 10 | 4 19 | 2 32 | 2 59 | 7 57 | 3 26 | 4 43 |
| F 16 | 20 59 | 0 29 | 0 33 | 22 57 | 2 2 | 22 38 | 0 42 | 0n 2 | 0 16 | 17 19 | 0 54 | 11 23 | 1 43 | 9 21 | 0 45 | 19 51 | 0 14 | 19 10 | 4 18 | 2 32 | 2 57 | 8 0 | 3 25 | 4 42 |
| S 17 | 20 47 | 6n15 | 0n42 | 22 38 | 2 4 | 22 29 | 0 44 | 0 20 | 0 15 | 17 21 | 0 54 | 11 21 | 1 43 | 9 20 | 0 45 | 19 51 | 0 14 | 19 10 | 4 18 | 2 32 | 2 56 | 8 4 | 3 24 | 4 42 |
| S 18 | 20 35 | 12 40 | 1 54 | 22 18 | 2 4 | 22 19 | 0 46 | 0 38 | 0 14 | 17 23 | 0 55 | 11 18 | 1 43 | 9 18 | 0 45 | 19 50 | 0 14 | 19 10 | 4 18 | 2 32 | 2 55 | 8 7 | 3 23 | 4 42 |
| M19 | 20 23 | 18 25 | 2 59 | 21 56 | 2 5 | 22 8 | 0 48 | 0 56 | 0 13 | 17 26 | 0 55 | 11 16 | 1 43 | 9 17 | 0 45 | 19 50 | 0 14 | 19 10 | 4 18 | 2 31 | 2 54 | 8 10 | 3 22 | 4 42 |
| T 20 | 20 10 | 23 9 | 3 53 | 21 33 | 2 5 | 21 56 | 0 50 | 1 14 | 0 11 | 17 28 | 0 55 | 11 13 | 1 43 | 9 16 | 0 45 | 19 49 | 0 14 | 19 11 | 4 18 | 2 30 | 2 52 | 8 14 | 3 22 | 4 42 |
| W21 | 19 57 | 26 32 | 4 33 | 21 8 | 2 4 | 21 44 | 0 52 | 1 32 | 0 10 | 17 31 | 0 55 | 11 11 | 1 43 | 9 15 | 0 45 | 19 49 | 0 14 | 19 11 | 4 18 | 2 28 | 2 51 | 8 17 | 3 21 | 4 41 |
| T 22 | 19 43 | 28 17 | 4 57 | 20 41 | 2 3 | 21 31 | 0 54 | 1 50 | 0 9 | 17 33 | 0 55 | 11 9 | 1 43 | 9 14 | 0 45 | 19 48 | 0 14 | 19 11 | 4 18 | 2 25 | 2 50 | 8 20 | 3 20 | 4 41 |
| F 23 | 19 29 | 28 18 | 5 3 | 20 12 | 2 2 | 21 17 | 0 56 | 2 8 | 0 8 | 17 35 | 0 55 | 11 6 | 1 43 | 9 13 | 0 44 | 19 48 | 0 14 | 19 11 | 4 18 | 2 21 | 2 49 | 8 24 | 3 19 | 4 41 |
| S 24 | 19 15 | 26 39 | 4 53 | 19 43 | 2 0 | 21 3 | 0 57 | 2 26 | 0 7 | 17 38 | 0 55 | 11 4 | 1 43 | 9 12 | 0 44 | 19 47 | 0 14 | 19 11 | 4 18 | 2 17 | 2 47 | 8 27 | 3 18 | 4 41 |
| S 25 | 19 0 | 23 32 | 4 27 | 19 11 | 1 57 | 20 48 | 0 59 | 2 43 | 0 6 | 17 40 | 0 56 | 11 1 | 1 43 | 9 11 | 0 44 | 19 47 | 0 14 | 19 11 | 4 18 | 2 12 | 2 46 | 8 30 | 3 17 | 4 40 |
| M26 | 18 45 | 19 19 | 3 47 | 18 38 | 1 54 | 20 33 | 1 1 | 3 1 | 0 5 | 17 42 | 0 56 | 10 59 | 1 43 | 9 10 | 0 44 | 19 46 | 0 14 | 19 11 | 4 17 | 2 8 | 2 45 | 8 34 | 3 15 | 4 40 |
| T 27 | 18 30 | 14 18 | 2 57 | 18 3 | 1 51 | 20 17 | 1 3 | 3 19 | 0 4 | 17 45 | 0 56 | 10 56 | 1 43 | 9 8 | 0 44 | 19 46 | 0 14 | 19 11 | 4 17 | 2 5 | 2 44 | 8 37 | 3 14 | 4 40 |
| W28 | 18 14 | 8 49 | 1 59 | 17 27 | 1 47 | 20 0 | 1 4 | 3 36 | 0 3 | 17 47 | 0 56 | 10 54 | 1 42 | 9 7 | 0 44 | 19 46 | 0 14 | 19 12 | 4 17 | 2 3 | 2 42 | 8 40 | 3 13 | 4 40 |
| T 29 | 17 58 | 3 7 | 0 57 | 16 50 | 1 42 | 19 43 | 1 6 | 3 54 | 0 3 | 17 50 | 0 56 | 10 51 | 1 42 | 9 6 | 0 44 | 19 45 | 0 13 | 19 12 | 4 17 | 2 2 | 2 41 | 8 44 | 3 12 | 4 40 |
| F 30 | 17 42 | 2s37 | 0s 7 | 16 11 | 1 36 | 19 25 | 1 7 | 4 12 | 0 2 | 17 52 | 0 56 | 10 48 | 1 42 | 9 5 | 0 44 | 19 45 | 0 13 | 19 12 | 4 17 | 2 2 | 2 40 | 8 47 | 3 11 | 4 39 |
| S 31 | 17s26 | 8s13 | 1s10 | 15s31 | 1s30 | 19s 7 | 1s 9 | 4n29 | 0s 1 | 17n54 | 0n56 | 10s46 | 1s42 | 9s 4 | 0s44 | 19s44 | 0n13 | 19n12 | 4s17 | 2n 2 | 2n38 | 8s50 | 3s10 | 4n39 |

Julian Day Number = 2331380.5, Delta T = 29.10 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'53, Lahiri = 19°15'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## FEBRUARY 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 44 47 | 12♒17'27 | 29♎57 | 24♒ 5 | 10♒22 | 12♈ 3 | 12°R39 | 6♓31 | 8♓37 | 1♒ 8 | 1°R15 | 5♈ 8 | 6♈35 | 19♎54 | 11♓ 0 | S 1 |
| M 2 | 8 48 44 | 13°18'14 | 11♏48 | 25°50 | 11°37 | 12°45 | 12♌31 | 6°38 | 8°40 | 1°10 | 1♋14 | 5°R 8 | 6°32 | 20° 0 | 11° 4 | M 2 |
| T 3 | 8 52 40 | 14°19'01 | 23°47 | 27°34 | 12°53 | 13°27 | 12°23 | 6°45 | 8°43 | 1°12 | 1°13 | 5° 8 | 6°29 | 20° 7 | 11° 7 | T 3 |
| W 4 | 8 56 37 | 15°19'46 | 5♐59 | 29°17 | 14° 8 | 14°10 | 12°15 | 6°52 | 8°46 | 1°14 | 1°12 | 5° 5 | 6°26 | 20°14 | 11°11 | W 4 |
| T 5 | 9 0 33 | 16°20'31 | 18°29 | 0♓58 | 15°23 | 14°52 | 12° 7 | 6°59 | 8°50 | 1°17 | 1°12 | 5° 1 | 6°23 | 20°20 | 11°14 | T 5 |
| F 6 | 9 4 30 | 17°21'15 | 1♑22 | 2°37 | 16°38 | 15°34 | 11°59 | 7° 6 | 8°53 | 1°19 | 1°11 | 4°55 | 6°19 | 20°27 | 11°18 | F 6 |
| S 7 | 9 8 27 | 18°21'57 | 14°37 | 4°14 | 17°54 | 16°17 | 11°51 | 7°13 | 8°56 | 1°21 | 1°10 | 4°47 | 6°16 | 20°34 | 11°21 | S 7 |
| S 8 | 9 12 23 | 19°22'38 | 28°17 | 5°48 | 19° 9 | 16°59 | 11°44 | 7°20 | 8°59 | 1°23 | 1° 9 | 4°39 | 6°13 | 20°40 | 11°25 | S 8 |
| M 9 | 9 16 20 | 20°23'18 | 12♒18 | 7°18 | 20°24 | 17°41 | 11°36 | 7°27 | 9° 3 | 1°25 | 1° 9 | 4°31 | 6°10 | 20°47 | 11°29 | M 9 |
| T 10 | 9 20 16 | 21°23'56 | 26°37 | 8°44 | 21°39 | 18°23 | 11°28 | 7°34 | 9° 6 | 1°28 | 1° 8 | 4°25 | 6° 7 | 20°54 | 11°32 | T 10 |
| W11 | 9 24 13 | 22°24'33 | 11♓ 8 | 10° 5 | 22°54 | 19° 5 | 11°20 | 7°42 | 9° 9 | 1°30 | 1° 7 | 4°21 | 6° 4 | 21° 0 | 11°36 | W11 |
| T 12 | 9 28 9 | 23°25'08 | 25°43 | 11°20 | 24°10 | 19°48 | 11°13 | 7°49 | 9°13 | 1°32 | 1° 6 | 4°19 | 6° 0 | 21° 7 | 11°40 | T 12 |
| F 13 | 9 32 6 | 24°25'41 | 10♈18 | 12°29 | 25°25 | 20°30 | 11° 5 | 7°56 | 9°16 | 1°34 | 1° 6 | 4°D19 | 5°57 | 21°14 | 11°43 | F 13 |
| S 14 | 9 36 2 | 25°26'13 | 24°47 | 13°32 | 26°40 | 21°12 | 10°57 | 8° 3 | 9°19 | 1°36 | 1° 5 | 4°20 | 5°54 | 21°20 | 11°47 | S 14 |
| S 15 | 9 39 59 | 26°26'43 | 9♉ 6 | 14°26 | 27°55 | 21°54 | 10°50 | 8°10 | 9°23 | 1°38 | 1° 4 | 4°21 | 5°51 | 21°27 | 11°51 | S 15 |
| M16 | 9 43 56 | 27°27'10 | 23°13 | 15°13 | 29°10 | 22°36 | 10°43 | 8°18 | 9°26 | 1°40 | 1° 4 | 4°R22 | 5°48 | 21°33 | 11°54 | M16 |
| T 17 | 9 47 52 | 28°27'36 | 7♊ 7 | 15°50 | 0♓25 | 23°18 | 10°35 | 8°25 | 9°30 | 1°43 | 1° 3 | 4°22 | 5°44 | 21°40 | 11°58 | T 17 |
| W18 | 9 51 49 | 29°28'01 | 20°48 | 16°19 | 1°40 | 24° 0 | 10°28 | 8°32 | 9°33 | 1°45 | 1° 3 | 4°20 | 5°41 | 21°47 | 12° 2 | W18 |
| T 19 | 9 55 45 | 0♓28'23 | 4♋15 | 16°37 | 2°55 | 24°42 | 10°21 | 8°40 | 9°36 | 1°47 | 1° 2 | 4°16 | 5°38 | 21°53 | 12° 6 | T 19 |
| F 20 | 9 59 42 | 1°28'43 | 17°30 | 16°R46 | 4°10 | 25°24 | 10°14 | 8°47 | 9°40 | 1°49 | 1° 2 | 4°12 | 5°35 | 22° 0 | 12° 9 | F 20 |
| S 21 | 10 3 38 | 2°29'01 | 0♌31 | 16°45 | 5°25 | 26° 6 | 10° 7 | 8°54 | 9°43 | 1°51 | 1° 1 | 4° 6 | 5°32 | 22° 7 | 12°13 | S 21 |
| S 22 | 10 7 35 | 3°29'17 | 13°19 | 16°35 | 6°40 | 26°47 | 10° 0 | 9° 2 | 9°47 | 1°53 | 1° 1 | 4° 1 | 5°29 | 22°13 | 12°17 | S 22 |
| M23 | 10 11 32 | 4°29'32 | 25°54 | 16°15 | 7°55 | 27°29 | 9°54 | 9° 9 | 9°50 | 1°55 | 1° 0 | 3°56 | 5°25 | 22°20 | 12°21 | M23 |
| T 24 | 10 15 28 | 5°29'44 | 8♍17 | 15°46 | 9°10 | 28°11 | 9°47 | 9°16 | 9°53 | 1°57 | 1° 0 | 3°52 | 5°22 | 22°27 | 12°25 | T 24 |
| W25 | 10 19 25 | 6°29'55 | 20°29 | 15° 9 | 10°25 | 28°53 | 9°41 | 9°24 | 9°57 | 1°59 | 0°59 | 3°50 | 5°19 | 22°33 | 12°28 | W25 |
| T 26 | 10 23 21 | 7°30'04 | 2♎31 | 14°24 | 11°40 | 29°34 | 9°34 | 9°31 | 10° 0 | 2° 1 | 0°59 | 3°D49 | 5°16 | 22°40 | 12°32 | T 26 |
| F 27 | 10 27 18 | 8°30'11 | 14°25 | 13°34 | 12°55 | 0♉16 | 9°28 | 9°38 | 10° 4 | 2° 3 | 0°58 | 3°50 | 5°13 | 22°47 | 12°36 | F 27 |
| S 28 | 10 31 14 | 9♓30'16 | 26♎14 | 12♓39 | 14♓10 | 0♉58 | 9♌22 | 9♓46 | 10♓ 7 | 2♒ 5 | 0♋58 | 3♈51 | 5♈ 9 | 22♎53 | 12♓40 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 9 | 13s30 | 2s10 | 14s50 | 1s23 | 18s48 | 1s10 | 4n46 | 0n 0 | 17n57 | 0n56 | 10s43 | 1s42 | 9s 2 | 0s44 | 19s44 | 0n13 | 19n12 | 4s17 | 2n 2 | 2n37 | 8s54 | 3s 9 | 4n39 |
| M 2 | 16 51 | 18 20 | 3 5 | 14 7 | 1 16 | 18 28 | 1 11 | 5 4 | 0 1 | 17 59 | 0 57 | 10 41 | 1 42 | 9 1 | 0 44 | 19 43 | 0 13 | 19 12 | 4 17 | 2 3 | 2 36 | 8 57 | 3 8 | 4 39 |
| T 3 | 16 34 | 22 30 | 3 52 | 13 24 | 1 7 | 18 8 | 1 13 | 5 21 | 0 2 | 18 1 | 0 57 | 10 38 | 1 42 | 9 0 | 0 44 | 19 43 | 0 13 | 19 12 | 4 16 | 2 3 | 2 35 | 9 0 | 3 7 | 4 39 |
| W 4 | 16 16 | 25 46 | 4 30 | 12 39 | 0 58 | 17 48 | 1 14 | 5 39 | 0 3 | 18 4 | 0 57 | 10 36 | 1 42 | 8 59 | 0 44 | 19 42 | 0 13 | 19 12 | 4 16 | 2 2 | 2 33 | 9 4 | 3 5 | 4 39 |
| T 5 | 15 58 | 27 53 | 4 55 | 11 54 | 0 49 | 17 27 | 1 15 | 5 56 | 0 4 | 18 6 | 0 57 | 10 33 | 1 42 | 8 58 | 0 44 | 19 42 | 0 13 | 19 13 | 4 16 | 2 0 | 2 32 | 9 7 | 3 4 | 4 38 |
| F 6 | 15 40 | 28 36 | 5 7 | 11 9 | 0 38 | 17 5 | 1 16 | 6 13 | 0 5 | 18 8 | 0 57 | 10 30 | 1 42 | 8 56 | 0 44 | 19 41 | 0 13 | 19 13 | 4 16 | 1 57 | 2 31 | 9 10 | 3 3 | 4 38 |
| S 7 | 15 21 | 27 43 | 5 4 | 10 24 | 0 27 | 16 43 | 1 17 | 6 30 | 0 6 | 18 11 | 0 57 | 10 28 | 1 42 | 8 55 | 0 44 | 19 41 | 0 13 | 19 13 | 4 16 | 1 54 | 2 30 | 9 13 | 3 2 | 4 38 |
| S 8 | 15 2 | 25 9 | 4 43 | 9 38 | 0 15 | 16 21 | 1 18 | 6 47 | 0 7 | 18 13 | 0 57 | 10 25 | 1 42 | 8 54 | 0 44 | 19 40 | 0 13 | 19 13 | 4 16 | 1 51 | 2 28 | 9 17 | 3 1 | 4 38 |
| M 9 | 14 43 | 21 3 | 4 4 | 8 53 | 0 2 | 15 58 | 1 19 | 7 4 | 0 7 | 18 15 | 0 57 | 10 22 | 1 42 | 8 53 | 0 44 | 19 40 | 0 13 | 19 13 | 4 16 | 1 48 | 2 27 | 9 20 | 2 59 | 4 38 |
| T 10 | 14 24 | 15 38 | 3 10 | 8 9 | 0n11 | 15 35 | 1 20 | 7 21 | 0 8 | 18 18 | 0 57 | 10 20 | 1 42 | 8 51 | 0 44 | 19 39 | 0 13 | 19 13 | 4 16 | 1 46 | 2 26 | 9 23 | 2 58 | 4 38 |
| W11 | 14 4 | 9 18 | 2 2 | 7 25 | 0 25 | 15 11 | 1 21 | 7 38 | 0 9 | 18 20 | 0 57 | 10 17 | 1 42 | 8 50 | 0 44 | 19 39 | 0 13 | 19 13 | 4 15 | 1 44 | 2 25 | 9 27 | 2 57 | 4 37 |
| T 12 | 13 44 | 2 25 | 0 47 | 6 43 | 0 39 | 14 47 | 1 22 | 7 55 | 0 10 | 18 22 | 0 57 | 10 14 | 1 42 | 8 49 | 0 44 | 19 38 | 0 13 | 19 14 | 4 15 | 1 43 | 2 23 | 9 30 | 2 56 | 4 37 |
| F 13 | 13 24 | 4n35 | 0n33 | 6 3 | 0 54 | 14 22 | 1 23 | 8 11 | 0 11 | 18 24 | 0 58 | 10 12 | 1 42 | 8 48 | 0 44 | 19 38 | 0 13 | 19 14 | 4 15 | 1 43 | 2 22 | 9 33 | 2 54 | 4 37 |
| S 14 | 13 4 | 11 18 | 1 49 | 5 25 | 1 9 | 13 57 | 1 23 | 8 28 | 0 12 | 18 26 | 0 58 | 10 9 | 1 42 | 8 46 | 0 44 | 19 37 | 0 13 | 19 14 | 4 15 | 1 43 | 2 21 | 9 37 | 2 53 | 4 37 |
| S 15 | 12 43 | 17 22 | 2 58 | 4 50 | 1 25 | 13 32 | 1 24 | 8 44 | 0 12 | 18 28 | 0 58 | 10 6 | 1 42 | 8 45 | 0 44 | 19 37 | 0 13 | 19 14 | 4 15 | 1 44 | 2 20 | 9 40 | 2 52 | 4 37 |
| M16 | 12 23 | 22 24 | 3 55 | 4 18 | 1 40 | 13 6 | 1 24 | 9 1 | 0 13 | 18 30 | 0 58 | 10 3 | 1 42 | 8 44 | 0 44 | 19 36 | 0 13 | 19 14 | 4 15 | 1 44 | 2 18 | 9 43 | 2 51 | 4 37 |
| T 17 | 12 2 | 26 6 | 4 37 | 3 49 | 1 56 | 12 40 | 1 25 | 9 17 | 0 14 | 18 32 | 0 58 | 10 1 | 1 42 | 8 42 | 0 44 | 19 36 | 0 13 | 19 14 | 4 15 | 1 44 | 2 17 | 9 46 | 2 49 | 4 37 |
| W18 | 11 41 | 28 12 | 5 3 | 3 24 | 2 11 | 12 14 | 1 25 | 9 33 | 0 15 | 18 34 | 0 58 | 9 58 | 1 42 | 8 41 | 0 44 | 19 36 | 0 13 | 19 14 | 4 14 | 1 44 | 2 16 | 9 50 | 2 48 | 4 37 |
| T 19 | 11 20 | 28 37 | 5 12 | 3 3 | 2 26 | 11 47 | 1 26 | 9 50 | 0 16 | 18 36 | 0 58 | 9 55 | 1 42 | 8 40 | 0 44 | 19 35 | 0 13 | 19 15 | 4 14 | 1 42 | 2 15 | 9 53 | 2 47 | 4 36 |
| F 20 | 10 58 | 27 21 | 5 3 | 2 47 | 2 40 | 11 20 | 1 26 | 10 6 | 0 16 | 18 38 | 0 58 | 9 53 | 1 43 | 8 39 | 0 44 | 19 35 | 0 13 | 19 15 | 4 14 | 1 40 | 2 13 | 9 56 | 2 45 | 4 36 |
| S 21 | 10 37 | 24 38 | 4 40 | 2 35 | 2 53 | 10 52 | 1 26 | 10 22 | 0 17 | 18 40 | 0 58 | 9 50 | 1 43 | 8 37 | 0 44 | 19 34 | 0 13 | 19 15 | 4 14 | 1 38 | 2 12 | 10 0 | 2 44 | 4 36 |
| S 22 | 10 15 | 20 43 | 4 2 | 2 28 | 3 5 | 10 25 | 1 26 | 10 38 | 0 18 | 18 42 | 0 58 | 9 47 | 1 43 | 8 36 | 0 44 | 19 34 | 0 13 | 19 15 | 4 14 | 1 36 | 2 11 | 10 3 | 2 43 | 4 36 |
| M23 | 9 53 | 15 56 | 3 13 | 2 26 | 3 16 | 9 57 | 1 26 | 10 53 | 0 19 | 18 44 | 0 58 | 9 44 | 1 43 | 8 35 | 0 44 | 19 33 | 0 13 | 19 15 | 4 14 | 1 34 | 2 10 | 10 6 | 2 41 | 4 36 |
| T 24 | 9 31 | 10 34 | 2 16 | 2 29 | 3 25 | 9 29 | 1 26 | 11 9 | 0 19 | 18 46 | 0 58 | 9 42 | 1 43 | 8 33 | 0 44 | 19 33 | 0 13 | 19 15 | 4 14 | 1 33 | 2 8 | 10 9 | 2 40 | 4 36 |
| W25 | 9 9 | 4 53 | 1 13 | 2 36 | 3 32 | 9 0 | 1 26 | 11 25 | 0 20 | 18 48 | 0 58 | 9 39 | 1 43 | 8 32 | 0 44 | 19 32 | 0 13 | 19 15 | 4 13 | 1 32 | 2 7 | 10 13 | 2 39 | 4 36 |
| T 26 | 8 46 | 0s53 | 0 7 | 2 48 | 3 38 | 8 32 | 1 26 | 11 40 | 0 21 | 18 49 | 0 58 | 9 36 | 1 43 | 8 31 | 0 44 | 19 32 | 0 13 | 19 16 | 4 13 | 1 31 | 2 6 | 10 16 | 2 37 | 4 36 |
| F 27 | 8 24 | 6 35 | 0s58 | 3 4 | 3 41 | 8 3 | 1 26 | 11 55 | 0 22 | 18 51 | 0 58 | 9 33 | 1 43 | 8 29 | 0 44 | 19 32 | 0 13 | 19 16 | 4 13 | 1 32 | 2 4 | 10 19 | 2 36 | 4 36 |
| S 28 | 8s 1 | 12s 1 | 2s 0 | 3s24 | 3n43 | 7s34 | 1s26 | 12n11 | 0n22 | 18n53 | 0n58 | 9s31 | 1s43 | 8s28 | 0s44 | 19s31 | 0n13 | 19n16 | 4s13 | 1n32 | 2n 3 | 10s22 | 2s34 | 4n36 |

Julian Day Number = 2331411.5, Delta T = 29.05 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°08'57, Lahiri = 19°15'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## MARCH 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 35 11 | 10♓30'20 | 8♏ 1 | 11°R40 | 15♓25 | 1♉39 | 9°R16 | 9♓53 | 10♓11 | 2♒ 6 | 0°R58 | 3♈53 | 5♈ 6 | 23♎ 0 | 12♓44 | S 1 |
| M 2 | 10 39 7 | 11°30'23 | 19°52 | 10♓40 | 16°40 | 2°21 | 9♌10 | 10° 0 | 10°14 | 2° 8 | 0♋57 | 3°55 | 5° 3 | 23° 7 | 12°47 | M 2 |
| T 3 | 10 43 4 | 12°30'23 | 1♐50 | 9°39 | 17°55 | 3° 2 | 9° 5 | 10° 8 | 10°18 | 2°10 | 0°57 | 3°56 | 5° 0 | 23°13 | 12°51 | T 3 |
| W 4 | 10 47 0 | 13°30'22 | 14° 1 | 8°39 | 19° 9 | 3°44 | 8°59 | 10°15 | 10°21 | 2°12 | 0°57 | 3°R56 | 4°57 | 23°20 | 12°55 | W 4 |
| T 5 | 10 50 57 | 14°30'20 | 26°28 | 7°41 | 20°24 | 4°25 | 8°54 | 10°22 | 10°24 | 2°14 | 0°57 | 3°56 | 4°54 | 23°27 | 12°59 | T 5 |
| F 6 | 10 54 54 | 15°30'16 | 9♑17 | 6°46 | 21°39 | 5° 7 | 8°48 | 10°30 | 10°28 | 2°16 | 0°56 | 3°54 | 4°50 | 23°33 | 13° 3 | F 6 |
| S 7 | 10 58 50 | 16°30'10 | 22°31 | 5°56 | 22°54 | 5°48 | 8°43 | 10°37 | 10°31 | 2°17 | 0°56 | 3°52 | 4°47 | 23°40 | 13° 7 | S 7 |
| S 8 | 11 2 47 | 17°30'02 | 6♒11 | 5°11 | 24° 9 | 6°30 | 8°39 | 10°44 | 10°35 | 2°19 | 0°56 | 3°50 | 4°44 | 23°46 | 13°10 | S 8 |
| M 9 | 11 6 43 | 18°29'52 | 20°17 | 4°31 | 25°23 | 7°11 | 8°34 | 10°52 | 10°38 | 2°21 | 0°56 | 3°48 | 4°41 | 23°53 | 13°14 | M 9 |
| T 10 | 11 10 40 | 19°29'41 | 4♓46 | 3°57 | 26°38 | 7°53 | 8°29 | 10°59 | 10°42 | 2°23 | 0°56 | 3°46 | 4°38 | 24° 0 | 13°18 | T 10 |
| W11 | 11 14 36 | 20°29'28 | 19°32 | 3°29 | 27°53 | 8°34 | 8°25 | 11° 6 | 10°45 | 2°24 | 0°56 | 3°45 | 4°35 | 24° 6 | 13°22 | W11 |
| T 12 | 11 18 33 | 21°29'12 | 4♈30 | 3° 8 | 29° 7 | 9°15 | 8°21 | 11°14 | 10°48 | 2°26 | 0°56 | 3°D45 | 4°31 | 24°13 | 13°26 | T 12 |
| F 13 | 11 22 29 | 22°28'55 | 19°29 | 2°53 | 0♈22 | 9°56 | 8°17 | 11°21 | 10°52 | 2°27 | 0°56 | 3°45 | 4°28 | 24°20 | 13°29 | F 13 |
| S 14 | 11 26 26 | 23°28'36 | 4♉23 | 2°44 | 1°37 | 10°38 | 8°13 | 11°28 | 10°55 | 2°29 | 0°56 | 3°46 | 4°25 | 24°26 | 13°33 | S 14 |
| S 15 | 11 30 23 | 24°28'14 | 19° 4 | 2°D41 | 2°51 | 11°19 | 8° 9 | 11°35 | 10°58 | 2°31 | 0°D56 | 3°47 | 4°22 | 24°33 | 13°37 | S 15 |
| M16 | 11 34 19 | 25°27'50 | 3♊27 | 2°45 | 4° 6 | 12° 0 | 8° 6 | 11°43 | 11° 2 | 2°32 | 0°56 | 3°47 | 4°19 | 24°40 | 13°41 | M16 |
| T 17 | 11 38 16 | 26°27'24 | 17°29 | 2°54 | 5°20 | 12°41 | 8° 2 | 11°50 | 11° 5 | 2°34 | 0°56 | 3°48 | 4°15 | 24°46 | 13°44 | T 17 |
| W18 | 11 42 12 | 27°26'55 | 1♋10 | 3° 8 | 6°35 | 13°22 | 7°59 | 11°57 | 11° 9 | 2°35 | 0°56 | 3°R48 | 4°12 | 24°53 | 13°48 | W18 |
| T 19 | 11 46 9 | 28°26'24 | 14°30 | 3°28 | 7°49 | 14° 3 | 7°56 | 12° 4 | 11°12 | 2°37 | 0°56 | 3°48 | 4° 9 | 25° 0 | 13°52 | T 19 |
| F 20 | 11 50 5 | 29°25'51 | 27°31 | 3°52 | 9° 4 | 14°44 | 7°53 | 12°11 | 11°15 | 2°38 | 0°56 | 3°47 | 4° 6 | 25° 6 | 13°56 | F 20 |
| S 21 | 11 54 2 | 0♈25'15 | 10♌16 | 4°21 | 10°18 | 15°25 | 7°51 | 12°19 | 11°19 | 2°40 | 0°56 | 3°47 | 4° 3 | 25°13 | 13°59 | S 21 |
| S 22 | 11 57 58 | 1°24'37 | 22°45 | 4°55 | 11°33 | 16° 6 | 7°48 | 12°26 | 11°22 | 2°41 | 0°56 | 3°46 | 4° 0 | 25°20 | 14° 3 | S 22 |
| M23 | 12 1 55 | 2°23'57 | 5♍ 3 | 5°33 | 12°47 | 16°47 | 7°46 | 12°33 | 11°25 | 2°42 | 0°56 | 3°46 | 3°56 | 25°26 | 14° 7 | M23 |
| T 24 | 12 5 52 | 3°23'15 | 17°11 | 6°14 | 14° 2 | 17°28 | 7°44 | 12°40 | 11°28 | 2°44 | 0°56 | 3°D46 | 3°53 | 25°33 | 14°10 | T 24 |
| W25 | 12 9 48 | 4°22'30 | 29°11 | 6°59 | 15°16 | 18° 9 | 7°42 | 12°47 | 11°32 | 2°45 | 0°57 | 3°R46 | 3°50 | 25°40 | 14°14 | W25 |
| T 26 | 12 13 45 | 5°21'43 | 11♎ 5 | 7°48 | 16°30 | 18°50 | 7°41 | 12°54 | 11°35 | 2°46 | 0°57 | 3°46 | 3°47 | 25°46 | 14°18 | T 26 |
| F 27 | 12 17 41 | 6°20'55 | 22°55 | 8°40 | 17°45 | 19°31 | 7°39 | 13° 1 | 11°38 | 2°48 | 0°57 | 3°46 | 3°44 | 25°53 | 14°21 | F 27 |
| S 28 | 12 21 38 | 7°20'04 | 4♏43 | 9°35 | 18°59 | 20°11 | 7°38 | 13° 8 | 11°41 | 2°49 | 0°57 | 3°46 | 3°41 | 26° 0 | 14°25 | S 28 |
| S 29 | 12 25 34 | 8°19'11 | 16°33 | 10°33 | 20°13 | 20°52 | 7°37 | 13°15 | 11°44 | 2°50 | 0°58 | 3°45 | 3°37 | 26° 6 | 14°28 | S 29 |
| M30 | 12 29 31 | 9°18'17 | 28°26 | 11°34 | 21°27 | 21°33 | 7°36 | 13°22 | 11°48 | 2°51 | 0°58 | 3°45 | 3°34 | 26°13 | 14°32 | M30 |
| T 31 | 12 33 27 | 10♈17'21 | 10♐26 | 12♓37 | 22♈42 | 22♉13 | 7♌35 | 13♓28 | 11♓51 | 2♒52 | 0♋59 | 3♈44 | 3♈31 | 26♎20 | 14♓36 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s39 | 17s 0 | 2s57 | 3s46 | 3n42 | 7s 4 | 1s26 | 12n26 | 0n23 | 18n54 | 0n58 | 9s28 | 1s43 | 8s27 | 0s44 | 19s31 | 0n13 | 19n16 | 4s13 | 1n33 | 2n 2 | 10s26 | 2s33 | 4n36 |
| M 2 | 7 16 | 21 23 | 3 47 | 4 12 | 3 39 | 6 35 | 1 25 | 12 41 | 0 24 | 18 56 | 0 58 | 9 25 | 1 43 | 8 25 | 0 44 | 19 30 | 0 13 | 19 16 | 4 13 | 1 33 | 2 1 | 10 29 | 2 32 | 4 36 |
| T 3 | 6 53 | 24 56 | 4 28 | 4 39 | 3 34 | 6 5 | 1 25 | 12 56 | 0 24 | 18 57 | 0 58 | 9 22 | 1 43 | 8 24 | 0 44 | 19 30 | 0 13 | 19 16 | 4 13 | 1 34 | 1 59 | 10 32 | 2 30 | 4 35 |
| W 4 | 6 30 | 27 26 | 4 57 | 5 8 | 3 28 | 5 35 | 1 24 | 13 11 | 0 25 | 18 59 | 0 58 | 9 20 | 1 43 | 8 23 | 0 44 | 19 30 | 0 13 | 19 16 | 4 12 | 1 34 | 1 58 | 10 35 | 2 29 | 4 35 |
| T 5 | 6 7 | 28 39 | 5 13 | 5 37 | 3 19 | 5 6 | 1 24 | 13 25 | 0 26 | 19 0 | 0 58 | 9 17 | 1 43 | 8 22 | 0 44 | 19 29 | 0 13 | 19 17 | 4 12 | 1 34 | 1 57 | 10 39 | 2 27 | 4 35 |
| F 6 | 5 43 | 28 23 | 5 15 | 6 7 | 3 9 | 4 35 | 1 23 | 13 40 | 0 26 | 19 1 | 0 58 | 9 14 | 1 43 | 8 20 | 0 44 | 19 29 | 0 13 | 19 17 | 4 12 | 1 33 | 1 56 | 10 42 | 2 26 | 4 35 |
| S 7 | 5 20 | 26 31 | 4 59 | 6 36 | 2 58 | 4 5 | 1 22 | 13 55 | 0 27 | 19 3 | 0 58 | 9 11 | 1 43 | 8 19 | 0 44 | 19 28 | 0 13 | 19 17 | 4 12 | 1 33 | 1 54 | 10 45 | 2 25 | 4 35 |
| S 8 | 4 57 | 23 4 | 4 27 | 7 4 | 2 45 | 3 35 | 1 22 | 14 9 | 0 28 | 19 4 | 0 58 | 9 9 | 1 43 | 8 18 | 0 44 | 19 28 | 0 13 | 19 17 | 4 12 | 1 32 | 1 53 | 10 48 | 2 23 | 4 35 |
| M 9 | 4 33 | 18 12 | 3 38 | 7 31 | 2 32 | 3 4 | 1 21 | 14 23 | 0 28 | 19 5 | 0 58 | 9 6 | 1 43 | 8 16 | 0 44 | 19 28 | 0 13 | 19 17 | 4 12 | 1 31 | 1 52 | 10 52 | 2 22 | 4 35 |
| T 10 | 4 10 | 12 10 | 2 34 | 7 56 | 2 18 | 2 34 | 1 20 | 14 37 | 0 29 | 19 6 | 0 58 | 9 3 | 1 43 | 8 15 | 0 44 | 19 27 | 0 13 | 19 17 | 4 12 | 1 30 | 1 51 | 10 55 | 2 20 | 4 35 |
| W11 | 3 46 | 5 21 | 1 18 | 8 19 | 2 4 | 2 3 | 1 19 | 14 51 | 0 30 | 19 7 | 0 58 | 9 1 | 1 43 | 8 14 | 0 44 | 19 27 | 0 13 | 19 18 | 4 11 | 1 30 | 1 49 | 10 58 | 2 19 | 4 35 |
| T 12 | 3 23 | 1n51 | 0n 4 | 8 41 | 1 49 | 1 33 | 1 18 | 15 5 | 0 30 | 19 9 | 0 58 | 8 58 | 1 44 | 8 13 | 0 44 | 19 26 | 0 13 | 19 18 | 4 11 | 1 30 | 1 48 | 11 1 | 2 17 | 4 35 |
| F 13 | 2 59 | 8 58 | 1 26 | 9 0 | 1 34 | 1 2 | 1 17 | 15 19 | 0 31 | 19 10 | 0 58 | 8 55 | 1 44 | 8 11 | 0 44 | 19 26 | 0 13 | 19 18 | 4 11 | 1 30 | 1 47 | 11 5 | 2 16 | 4 35 |
| S 14 | 2 36 | 15 33 | 2 42 | 9 17 | 1 20 | 0 31 | 1 16 | 15 32 | 0 32 | 19 10 | 0 58 | 8 52 | 1 44 | 8 10 | 0 44 | 19 26 | 0 13 | 19 18 | 4 11 | 1 30 | 1 46 | 11 8 | 2 15 | 4 35 |
| S 15 | 2 12 | 21 8 | 3 46 | 9 32 | 1 5 | 0 0 | 1 15 | 15 46 | 0 32 | 19 11 | 0 58 | 8 50 | 1 44 | 8 9 | 0 44 | 19 25 | 0 13 | 19 18 | 4 11 | 1 30 | 1 44 | 11 11 | 2 13 | 4 35 |
| M16 | 1 48 | 25 22 | 4 34 | 9 44 | 0 50 | 0n30 | 1 14 | 15 59 | 0 33 | 19 12 | 0 58 | 8 47 | 1 44 | 8 7 | 0 44 | 19 25 | 0 13 | 19 18 | 4 11 | 1 31 | 1 43 | 11 14 | 2 12 | 4 35 |
| T 17 | 1 25 | 27 57 | 5 5 | 9 54 | 0 36 | 1 1 | 1 12 | 16 12 | 0 33 | 19 13 | 0 58 | 8 44 | 1 44 | 8 6 | 0 44 | 19 25 | 0 13 | 19 18 | 4 10 | 1 31 | 1 42 | 11 18 | 2 10 | 4 35 |
| W18 | 1 1 | 28 46 | 5 17 | 10 2 | 0 22 | 1 32 | 1 11 | 16 25 | 0 34 | 19 14 | 0 57 | 8 42 | 1 44 | 8 5 | 0 44 | 19 24 | 0 13 | 19 19 | 4 10 | 1 31 | 1 40 | 11 21 | 2 9 | 4 35 |
| T 19 | 0 37 | 27 52 | 5 12 | 10 7 | 0 9 | 2 3 | 1 10 | 16 38 | 0 35 | 19 15 | 0 57 | 8 39 | 1 44 | 8 4 | 0 44 | 19 24 | 0 13 | 19 19 | 4 10 | 1 31 | 1 39 | 11 24 | 2 7 | 4 35 |
| F 20 | 0 14 | 25 27 | 4 51 | 10 10 | 0s 4 | 2 33 | 1 8 | 16 51 | 0 35 | 19 15 | 0 57 | 8 36 | 1 44 | 8 2 | 0 44 | 19 24 | 0 13 | 19 19 | 4 10 | 1 31 | 1 38 | 11 27 | 2 6 | 4 35 |
| S 21 | 0n10 | 21 48 | 4 16 | 10 11 | 0 17 | 3 4 | 1 7 | 17 4 | 0 36 | 19 16 | 0 57 | 8 34 | 1 44 | 8 1 | 0 44 | 19 23 | 0 13 | 19 19 | 4 10 | 1 30 | 1 37 | 11 30 | 2 5 | 4 35 |
| S 22 | 0 34 | 17 14 | 3 29 | 10 10 | 0 29 | 3 35 | 1 5 | 17 16 | 0 36 | 19 16 | 0 57 | 8 31 | 1 44 | 8 0 | 0 44 | 19 23 | 0 13 | 19 19 | 4 10 | 1 30 | 1 35 | 11 34 | 2 3 | 4 35 |
| M23 | 0 57 | 12 3 | 2 33 | 10 7 | 0 40 | 4 5 | 1 4 | 17 28 | 0 37 | 19 17 | 0 57 | 8 28 | 1 45 | 7 59 | 0 44 | 19 23 | 0 13 | 19 19 | 4 10 | 1 30 | 1 34 | 11 37 | 2 2 | 4 35 |
| T 24 | 1 21 | 6 28 | 1 31 | 10 2 | 0 51 | 4 36 | 1 2 | 17 40 | 0 37 | 19 17 | 0 57 | 8 26 | 1 45 | 7 57 | 0 44 | 19 22 | 0 13 | 19 20 | 4 9 | 1 30 | 1 33 | 11 40 | 2 0 | 4 35 |
| W25 | 1 45 | 0 43 | 0 25 | 9 55 | 1 1 | 5 6 | 1 0 | 17 52 | 0 38 | 19 18 | 0 57 | 8 23 | 1 45 | 7 56 | 0 44 | 19 22 | 0 13 | 19 20 | 4 9 | 1 30 | 1 32 | 11 43 | 1 59 | 4 35 |
| T 26 | 2 8 | 5s 1 | 0s41 | 9 46 | 1 11 | 5 36 | 0 58 | 18 4 | 0 38 | 19 18 | 0 57 | 8 21 | 1 45 | 7 55 | 0 44 | 19 22 | 0 13 | 19 20 | 4 9 | 1 30 | 1 30 | 11 46 | 1 58 | 4 35 |
| F 27 | 2 32 | 10 32 | 1 44 | 9 35 | 1 21 | 6 6 | 0 57 | 18 16 | 0 39 | 19 19 | 0 57 | 8 18 | 1 45 | 7 54 | 0 44 | 19 22 | 0 13 | 19 20 | 4 9 | 1 30 | 1 29 | 11 50 | 1 56 | 4 35 |
| S 28 | 2 55 | 15 41 | 2 44 | 9 22 | 1 29 | 6 36 | 0 55 | 18 28 | 0 40 | 19 19 | 0 57 | 8 15 | 1 45 | 7 53 | 0 44 | 19 21 | 0 13 | 19 20 | 4 9 | 1 30 | 1 28 | 11 53 | 1 55 | 4 35 |
| S 29 | 3 18 | 20 16 | 3 36 | 9 8 | 1 38 | 7 6 | 0 53 | 18 39 | 0 40 | 19 19 | 0 57 | 8 13 | 1 45 | 7 51 | 0 44 | 19 21 | 0 13 | 19 20 | 4 9 | 1 30 | 1 27 | 11 56 | 1 53 | 4 35 |
| M30 | 3 42 | 24 3 | 4 19 | 8 52 | 1 45 | 7 36 | 0 51 | 18 50 | 0 41 | 19 19 | 0 57 | 8 10 | 1 45 | 7 50 | 0 44 | 19 21 | 0 13 | 19 20 | 4 8 | 1 29 | 1 25 | 11 59 | 1 52 | 4 35 |
| T 31 | 4n 5 | 26s52 | 4s52 | 8s34 | 1s52 | 8n 5 | 0s49 | 19n 1 | 0n41 | 19n19 | 0n57 | 8s 8 | 1s45 | 7s49 | 0s44 | 19s20 | 0n13 | 19n21 | 4s 8 | 1n29 | 1n24 | 12s 2 | 1s51 | 4n35 |

Julian Day Number = 2331439.5, Delta T = 29.00 sec
Ecliptic obliquity = 23°29'05, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'01, Lahiri = 19°16'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## APRIL 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 37 24 | 11♈16'23 | 22♐37 | 13♓43 | 23♈56 | 22♉54 | 7°R35 | 13♓35 | 11♓54 | 2♒54 | 0♋59 | 3°R43 | 3♈28 | 26♎26 | 14♓39 | W 1 |
| T 2 | 12 41 21 | 12°15'23 | 5♑ 3 | 14°52 | 25°10 | 23°35 | 7♌34 | 13°42 | 11°57 | 2°55 | 0°59 | 3♈43 | 3°25 | 26°33 | 14°43 | T 2 |
| F 3 | 12 45 17 | 13°14'21 | 17°47 | 16° 2 | 26°24 | 24°15 | 7°D34 | 13°49 | 12° 0 | 2°56 | 1° 0 | 3°D43 | 3°21 | 26°40 | 14°46 | F 3 |
| S 4 | 12 49 14 | 14°13'18 | 0♒54 | 17°15 | 27°38 | 24°56 | 7°34 | 13°55 | 12° 3 | 2°57 | 1° 0 | 3°43 | 3°18 | 26°46 | 14°49 | S 4 |
| S 5 | 12 53 10 | 15°12'13 | 14°26 | 18°30 | 28°52 | 25°36 | 7°34 | 14° 2 | 12° 6 | 2°58 | 1° 1 | 3°44 | 3°15 | 26°53 | 14°53 | S 5 |
| M 6 | 12 57 7 | 16°11'06 | 28°24 | 19°47 | 0♉ 6 | 26°17 | 7°35 | 14° 9 | 12° 9 | 2°59 | 1° 1 | 3°45 | 3°12 | 26°59 | 14°56 | M 6 |
| T 7 | 13 1 3 | 17° 9'57 | 12♓49 | 21° 7 | 1°21 | 26°57 | 7°35 | 14°15 | 12°12 | 3° 0 | 1° 2 | 3°46 | 3° 9 | 27° 6 | 15° 0 | T 7 |
| W 8 | 13 5 0 | 18° 8'47 | 27°36 | 22°28 | 2°35 | 27°38 | 7°36 | 14°22 | 12°15 | 3° 1 | 1° 2 | 3°R46 | 3° 6 | 27°13 | 15° 3 | W 8 |
| T 9 | 13 8 56 | 19° 7'34 | 12♈40 | 23°51 | 3°49 | 28°18 | 7°37 | 14°28 | 12°18 | 3° 1 | 1° 3 | 3°46 | 3° 2 | 27°19 | 15° 6 | T 9 |
| F 10 | 13 12 53 | 20° 6'20 | 27°52 | 25°15 | 5° 3 | 28°58 | 7°38 | 14°35 | 12°21 | 3° 2 | 1° 3 | 3°45 | 2°59 | 27°26 | 15°10 | F 10 |
| S 11 | 13 16 50 | 21° 5'04 | 13♉ 3 | 26°42 | 6°16 | 29°39 | 7°40 | 14°41 | 12°24 | 3° 3 | 1° 4 | 3°44 | 2°56 | 27°33 | 15°13 | S 11 |
| S 12 | 13 20 46 | 22° 3'45 | 28° 2 | 28°10 | 7°30 | 0♊19 | 7°41 | 14°48 | 12°26 | 3° 4 | 1° 5 | 3°41 | 2°53 | 27°39 | 15°16 | S 12 |
| M13 | 13 24 43 | 23° 2'25 | 12♊43 | 29°41 | 8°44 | 0°59 | 7°43 | 14°54 | 12°29 | 3° 5 | 1° 5 | 3°39 | 2°50 | 27°46 | 15°19 | M13 |
| T 14 | 13 28 39 | 24° 1'02 | 27° 0 | 1♈13 | 9°58 | 1°39 | 7°45 | 15° 0 | 12°32 | 3° 5 | 1° 6 | 3°37 | 2°47 | 27°53 | 15°22 | T 14 |
| W15 | 13 32 36 | 24°59'37 | 10♋49 | 2°46 | 11°12 | 2°20 | 7°47 | 15° 7 | 12°35 | 3° 6 | 1° 7 | 3°35 | 2°43 | 27°59 | 15°26 | W15 |
| T 16 | 13 36 32 | 25°58'10 | 24°12 | 4°21 | 12°26 | 3° 0 | 7°49 | 15°13 | 12°38 | 3° 7 | 1° 7 | 3°D35 | 2°40 | 28° 6 | 15°29 | T 16 |
| F 17 | 13 40 29 | 26°56'41 | 7♌11 | 5°59 | 13°40 | 3°40 | 7°52 | 15°19 | 12°40 | 3° 7 | 1° 8 | 3°35 | 2°37 | 28°13 | 15°32 | F 17 |
| S 18 | 13 44 25 | 27°55'09 | 19°48 | 7°37 | 14°53 | 4°20 | 7°54 | 15°25 | 12°43 | 3° 8 | 1° 9 | 3°36 | 2°34 | 28°19 | 15°35 | S 18 |
| S 19 | 13 48 22 | 28°53'35 | 2♍ 8 | 9°18 | 16° 7 | 5° 0 | 7°57 | 15°31 | 12°46 | 3° 8 | 1°10 | 3°38 | 2°31 | 28°26 | 15°38 | S 19 |
| M20 | 13 52 19 | 29°51'59 | 14°15 | 11° 0 | 17°21 | 5°40 | 8° 0 | 15°37 | 12°48 | 3° 9 | 1°10 | 3°39 | 2°27 | 28°33 | 15°41 | M20 |
| T 21 | 13 56 15 | 0♉50'21 | 26°13 | 12°44 | 18°34 | 6°20 | 8° 3 | 15°43 | 12°51 | 3° 9 | 1°11 | 3°40 | 2°24 | 28°39 | 15°44 | T 21 |
| W22 | 14 0 12 | 1°48'41 | 8♎ 5 | 14°29 | 19°48 | 7° 0 | 8° 6 | 15°49 | 12°53 | 3°10 | 1°12 | 3°R41 | 2°21 | 28°46 | 15°47 | W22 |
| T 23 | 14 4 8 | 2°46'59 | 19°53 | 16°17 | 21° 1 | 7°40 | 8°10 | 15°55 | 12°56 | 3°10 | 1°13 | 3°39 | 2°18 | 28°53 | 15°50 | T 23 |
| F 24 | 14 8 5 | 3°45'15 | 1♏42 | 18° 6 | 22°15 | 8°20 | 8°14 | 16° 0 | 12°58 | 3°11 | 1°14 | 3°37 | 2°15 | 28°59 | 15°52 | F 24 |
| S 25 | 14 12 1 | 4°43'30 | 13°32 | 19°57 | 23°29 | 9° 0 | 8°17 | 16° 6 | 13° 1 | 3°11 | 1°15 | 3°33 | 2°12 | 29° 6 | 15°55 | S 25 |
| S 26 | 14 15 58 | 5°41'42 | 25°26 | 21°49 | 24°42 | 9°40 | 8°21 | 16°12 | 13° 3 | 3°11 | 1°15 | 3°27 | 2° 8 | 29°13 | 15°58 | S 26 |
| M27 | 14 19 54 | 6°39'54 | 7♐25 | 23°44 | 25°56 | 10°20 | 8°26 | 16°17 | 13° 5 | 3°12 | 1°16 | 3°22 | 2° 5 | 29°19 | 16° 1 | M27 |
| T 28 | 14 23 51 | 7°38'03 | 19°32 | 25°40 | 27° 9 | 10°59 | 8°30 | 16°23 | 13° 8 | 3°12 | 1°17 | 3°16 | 2° 2 | 29°26 | 16° 3 | T 28 |
| W29 | 14 27 48 | 8°36'11 | 1♑49 | 27°37 | 28°22 | 11°39 | 8°34 | 16°28 | 13°10 | 3°12 | 1°18 | 3°10 | 1°59 | 29°33 | 16° 6 | W29 |
| T 30 | 14 31 44 | 9♉34'18 | 14♑18 | 29♈37 | 29♉36 | 12♊19 | 8♌39 | 16♓34 | 13♓12 | 3♒12 | 1♋19 | 3♈ 6 | 1♈56 | 29♎39 | 16♓ 9 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 4n28 | 28s28 | 5s11 | 8s15 | 1s59 | 8n34 | 0s47 | 19n12 | 0n42 | 19n19 | 0n57 | 8s 5 | 1s46 | 7s48 | 0s44 | 19s20 | 0n13 | 19n21 | 4s 8 | 1n29 | 1n23 | 12s 6 | 1s49 | 4n35 |
| T 2 | 4 51 | 28 40 | 5 17 | 7 54 | 2 5 | 9 4 | 0 45 | 19 23 | 0 42 | 19 19 | 0 57 | 8 3 | 1 46 | 7 47 | 0 44 | 19 20 | 0 13 | 19 21 | 4 8 | 1 29 | 1 22 | 12 9 | 1 48 | 4 36 |
| F 3 | 5 14 | 27 23 | 5 8 | 7 31 | 2 11 | 9 33 | 0 43 | 19 33 | 0 43 | 19 19 | 0 56 | 8 0 | 1 46 | 7 45 | 0 44 | 19 20 | 0 13 | 19 21 | 4 8 | 1 29 | 1 20 | 12 12 | 1 46 | 4 36 |
| S 4 | 5 37 | 24 35 | 4 42 | 7 7 | 2 16 | 10 1 | 0 41 | 19 44 | 0 43 | 19 19 | 0 56 | 7 58 | 1 46 | 7 44 | 0 44 | 19 20 | 0 13 | 19 21 | 4 8 | 1 29 | 1 19 | 12 15 | 1 45 | 4 36 |
| S 5 | 6 0 | 20 22 | 4 1 | 6 42 | 2 20 | 10 30 | 0 39 | 19 54 | 0 43 | 19 19 | 0 56 | 7 55 | 1 46 | 7 43 | 0 44 | 19 19 | 0 13 | 19 21 | 4 8 | 1 29 | 1 18 | 12 18 | 1 44 | 4 36 |
| M 6 | 6 23 | 14 55 | 3 4 | 6 15 | 2 24 | 10 58 | 0 36 | 20 4 | 0 44 | 19 19 | 0 56 | 7 53 | 1 46 | 7 42 | 0 44 | 19 19 | 0 13 | 19 21 | 4 7 | 1 30 | 1 16 | 12 22 | 1 42 | 4 36 |
| T 7 | 6 45 | 8 31 | 1 54 | 5 47 | 2 27 | 11 26 | 0 34 | 20 14 | 0 44 | 19 19 | 0 56 | 7 51 | 1 46 | 7 41 | 0 44 | 19 19 | 0 13 | 19 22 | 4 7 | 1 30 | 1 15 | 12 25 | 1 41 | 4 36 |
| W 8 | 7 8 | 1 29 | 0 34 | 5 18 | 2 30 | 11 54 | 0 32 | 20 24 | 0 45 | 19 18 | 0 56 | 7 48 | 1 46 | 7 40 | 0 44 | 19 19 | 0 13 | 19 22 | 4 7 | 1 30 | 1 14 | 12 28 | 1 39 | 4 36 |
| T 9 | 7 30 | 5n46 | 0n49 | 4 47 | 2 32 | 12 21 | 0 29 | 20 33 | 0 45 | 19 18 | 0 56 | 7 46 | 1 47 | 7 39 | 0 45 | 19 18 | 0 13 | 19 22 | 4 7 | 1 30 | 1 13 | 12 31 | 1 38 | 4 36 |
| F 10 | 7 52 | 12 45 | 2 9 | 4 15 | 2 34 | 12 48 | 0 27 | 20 43 | 0 46 | 19 18 | 0 56 | 7 43 | 1 47 | 7 38 | 0 45 | 19 18 | 0 13 | 19 22 | 4 7 | 1 30 | 1 11 | 12 34 | 1 37 | 4 36 |
| S 11 | 8 15 | 18 58 | 3 21 | 3 41 | 2 35 | 13 15 | 0 25 | 20 52 | 0 46 | 19 17 | 0 56 | 7 41 | 1 47 | 7 37 | 0 45 | 19 18 | 0 13 | 19 22 | 4 7 | 1 29 | 1 10 | 12 37 | 1 35 | 4 36 |
| S 12 | 8 37 | 23 56 | 4 17 | 3 7 | 2 36 | 13 41 | 0 22 | 21 1 | 0 47 | 19 17 | 0 56 | 7 39 | 1 47 | 7 35 | 0 45 | 19 18 | 0 13 | 19 22 | 4 7 | 1 28 | 1 9 | 12 41 | 1 34 | 4 36 |
| M13 | 8 58 | 27 14 | 4 55 | 2 31 | 2 36 | 14 7 | 0 20 | 21 10 | 0 47 | 19 16 | 0 56 | 7 36 | 1 47 | 7 34 | 0 45 | 19 18 | 0 13 | 19 22 | 4 6 | 1 27 | 1 8 | 12 44 | 1 33 | 4 36 |
| T 14 | 9 20 | 28 40 | 5 13 | 1 54 | 2 36 | 14 33 | 0 18 | 21 18 | 0 48 | 19 16 | 0 56 | 7 34 | 1 47 | 7 33 | 0 45 | 19 18 | 0 13 | 19 23 | 4 6 | 1 26 | 1 6 | 12 47 | 1 32 | 4 36 |
| W15 | 9 42 | 28 15 | 5 13 | 1 16 | 2 35 | 14 59 | 0 15 | 21 27 | 0 48 | 19 15 | 0 56 | 7 32 | 1 48 | 7 32 | 0 45 | 19 17 | 0 13 | 19 23 | 4 6 | 1 26 | 1 5 | 12 50 | 1 30 | 4 37 |
| T 16 | 10 3 | 26 9 | 4 55 | 0 37 | 2 34 | 15 24 | 0 13 | 21 35 | 0 48 | 19 14 | 0 55 | 7 29 | 1 48 | 7 31 | 0 45 | 19 17 | 0 13 | 19 23 | 4 6 | 1 25 | 1 4 | 12 53 | 1 29 | 4 37 |
| F 17 | 10 24 | 22 45 | 4 23 | 0n 3 | 2 32 | 15 48 | 0 10 | 21 43 | 0 49 | 19 14 | 0 55 | 7 27 | 1 48 | 7 30 | 0 45 | 19 17 | 0 13 | 19 23 | 4 6 | 1 26 | 1 3 | 12 56 | 1 28 | 4 37 |
| S 18 | 10 45 | 18 22 | 3 39 | 0 45 | 2 29 | 16 13 | 0 8 | 21 51 | 0 49 | 19 13 | 0 55 | 7 25 | 1 48 | 7 29 | 0 45 | 19 17 | 0 13 | 19 23 | 4 6 | 1 26 | 1 1 | 12 59 | 1 26 | 4 37 |
| S 19 | 11 6 | 13 18 | 2 45 | 1 27 | 2 26 | 16 37 | 0 5 | 21 59 | 0 50 | 19 12 | 0 55 | 7 23 | 1 48 | 7 28 | 0 45 | 19 17 | 0 13 | 19 23 | 4 6 | 1 27 | 1 0 | 13 3 | 1 25 | 4 37 |
| M20 | 11 27 | 7 49 | 1 45 | 2 10 | 2 23 | 17 0 | 0 2 | 22 7 | 0 50 | 19 11 | 0 55 | 7 21 | 1 48 | 7 27 | 0 45 | 19 17 | 0 13 | 19 23 | 4 5 | 1 27 | 0 59 | 13 6 | 1 24 | 4 37 |
| T 21 | 11 47 | 2 8 | 0 41 | 2 55 | 2 19 | 17 23 | 0n 0 | 22 14 | 0 50 | 19 10 | 0 55 | 7 19 | 1 49 | 7 26 | 0 45 | 19 17 | 0 13 | 19 23 | 4 5 | 1 28 | 0 57 | 13 9 | 1 23 | 4 37 |
| W22 | 12 8 | 3s35 | 0s24 | 3 40 | 2 14 | 17 46 | 0 3 | 22 21 | 0 51 | 19 9 | 0 55 | 7 16 | 1 49 | 7 25 | 0 45 | 19 17 | 0 13 | 19 24 | 4 5 | 1 28 | 0 56 | 13 12 | 1 21 | 4 37 |
| T 23 | 12 28 | 9 9 | 1 28 | 4 26 | 2 9 | 18 8 | 0 5 | 22 28 | 0 51 | 19 8 | 0 55 | 7 14 | 1 49 | 7 25 | 0 45 | 19 16 | 0 13 | 19 24 | 4 5 | 1 27 | 0 55 | 13 15 | 1 20 | 4 38 |
| F 24 | 12 48 | 14 23 | 2 28 | 5 12 | 2 4 | 18 30 | 0 8 | 22 35 | 0 52 | 19 7 | 0 55 | 7 12 | 1 49 | 7 24 | 0 45 | 19 16 | 0 13 | 19 24 | 4 5 | 1 26 | 0 54 | 13 18 | 1 19 | 4 38 |
| S 25 | 13 7 | 19 7 | 3 21 | 6 0 | 1 57 | 18 51 | 0 10 | 22 42 | 0 52 | 19 6 | 0 55 | 7 10 | 1 49 | 7 23 | 0 45 | 19 16 | 0 13 | 19 24 | 4 5 | 1 25 | 0 52 | 13 21 | 1 18 | 4 38 |
| S 26 | 13 27 | 23 8 | 4 6 | 6 48 | 1 51 | 19 11 | 0 13 | 22 48 | 0 52 | 19 5 | 0 55 | 7 8 | 1 49 | 7 22 | 0 45 | 19 16 | 0 13 | 19 24 | 4 5 | 1 23 | 0 51 | 13 24 | 1 17 | 4 38 |
| M27 | 13 46 | 26 12 | 4 40 | 7 37 | 1 44 | 19 32 | 0 16 | 22 54 | 0 53 | 19 4 | 0 55 | 7 6 | 1 50 | 7 21 | 0 45 | 19 16 | 0 13 | 19 24 | 4 4 | 1 20 | 0 50 | 13 28 | 1 15 | 4 38 |
| T 28 | 14 5 | 28 6 | 5 2 | 8 26 | 1 36 | 19 51 | 0 18 | 23 0 | 0 53 | 19 3 | 0 54 | 7 4 | 1 50 | 7 20 | 0 45 | 19 16 | 0 13 | 19 24 | 4 4 | 1 18 | 0 49 | 13 31 | 1 14 | 4 38 |
| W29 | 14 24 | 28 39 | 5 11 | 9 16 | 1 28 | 20 10 | 0 21 | 23 6 | 0 53 | 19 2 | 0 54 | 7 2 | 1 50 | 7 19 | 0 45 | 19 16 | 0 13 | 19 24 | 4 4 | 1 16 | 0 47 | 13 34 | 1 13 | 4 38 |
| T 30 | 14n42 | 27s46 | 5s 5 | 10n 7 | 1s20 | 20n29 | 0n23 | 23n12 | 0n54 | 19n 0 | 0n54 | 7s 0 | 1s50 | 7s18 | 0s45 | 19s16 | 0n13 | 19n25 | 4s 4 | 1n14 | 0n46 | 13s37 | 1s12 | 4n38 |

Julian Day Number = 2331470.5, Delta T = 28.95 sec
Ecliptic obliquity = 23°29'05, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'05, Lahiri = 19°16'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## MAY 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 35 41 | 10♉32'23 | 27♋ 3 | 1♉38 | 0♊49 | 12♊59 | 8♌44 | 16♓39 | 13♓15 | 3♒13 | 1♋20 | 3°R 4 | 1♈52 | 29♎46 | 16♓11 | F 1 |
| S 2 | 14 39 37 | 11°30'26 | 10♒ 6 | 3°41 | 2° 2 | 13°38 | 8°49 | 16°44 | 13°17 | 3°13 | 1°21 | 3°D 3 | 1°49 | 29°53 | 16°14 | S 2 |
| S 3 | 14 43 34 | 12°28'28 | 23°30 | 5°45 | 3°16 | 14°18 | 8°54 | 16°50 | 13°19 | 3°13 | 1°22 | 3♈ 3 | 1°46 | 29°59 | 16°16 | S 3 |
| M 4 | 14 47 30 | 13°26'29 | 7♓18 | 7°51 | 4°29 | 14°58 | 8°59 | 16°55 | 13°21 | 3°13 | 1°23 | 3° 5 | 1°43 | 0♏ 6 | 16°19 | M 4 |
| T 5 | 14 51 27 | 14°24'29 | 21°30 | 9°58 | 5°42 | 15°37 | 9° 5 | 17° 0 | 13°23 | 3°R13 | 1°24 | 3° 6 | 1°40 | 0°13 | 16°21 | T 5 |
| W 6 | 14 55 23 | 15°22'27 | 6♈ 5 | 12° 6 | 6°55 | 16°17 | 9°10 | 17° 5 | 13°25 | 3°13 | 1°25 | 3°R 6 | 1°37 | 0°19 | 16°23 | W 6 |
| T 7 | 14 59 20 | 16°20'23 | 21° 0 | 14°15 | 8° 9 | 16°56 | 9°16 | 17°10 | 13°27 | 3°13 | 1°27 | 3° 5 | 1°33 | 0°26 | 16°26 | T 7 |
| F 8 | 15 3 17 | 17°18'19 | 6♉ 7 | 16°25 | 9°22 | 17°36 | 9°22 | 17°15 | 13°29 | 3°13 | 1°28 | 3° 2 | 1°30 | 0°33 | 16°28 | F 8 |
| S 9 | 15 7 13 | 18°16'13 | 21°19 | 18°36 | 10°35 | 18°16 | 9°28 | 17°19 | 13°31 | 3°13 | 1°29 | 2°57 | 1°27 | 0°39 | 16°30 | S 9 |
| S 10 | 15 11 10 | 19°14'06 | 6♊24 | 20°47 | 11°48 | 18°55 | 9°34 | 17°24 | 13°33 | 3°13 | 1°30 | 2°50 | 1°24 | 0°46 | 16°32 | S 10 |
| M11 | 15 15 6 | 20°11'57 | 21°14 | 22°58 | 13° 1 | 19°35 | 9°40 | 17°29 | 13°35 | 3°12 | 1°31 | 2°43 | 1°21 | 0°53 | 16°34 | M11 |
| T 12 | 15 19 3 | 21° 9'46 | 5♋41 | 25° 9 | 14°14 | 20°14 | 9°47 | 17°33 | 13°36 | 3°12 | 1°32 | 2°36 | 1°18 | 0°59 | 16°36 | T 12 |
| W13 | 15 22 59 | 22° 7'34 | 19°39 | 27°19 | 15°27 | 20°53 | 9°53 | 17°38 | 13°38 | 3°12 | 1°33 | 2°30 | 1°14 | 1° 6 | 16°39 | W13 |
| T 14 | 15 26 56 | 23° 5'20 | 3♌ 9 | 29°29 | 16°40 | 21°33 | 10° 0 | 17°42 | 13°40 | 3°12 | 1°35 | 2°27 | 1°11 | 1°13 | 16°41 | T 14 |
| F 15 | 15 30 52 | 24° 3'04 | 16°11 | 1♊38 | 17°53 | 22°12 | 10° 7 | 17°47 | 13°41 | 3°11 | 1°36 | 2°25 | 1° 8 | 1°19 | 16°42 | F 15 |
| S 16 | 15 34 49 | 25° 0'47 | 28°48 | 3°45 | 19° 6 | 22°51 | 10°14 | 17°51 | 13°43 | 3°11 | 1°37 | 2°D24 | 1° 5 | 1°26 | 16°44 | S 16 |
| S 17 | 15 38 46 | 25°58'28 | 11♍ 6 | 5°51 | 20°19 | 23°31 | 10°21 | 17°55 | 13°45 | 3°11 | 1°38 | 2°25 | 1° 2 | 1°33 | 16°46 | S 17 |
| M18 | 15 42 42 | 26°56'07 | 23°10 | 7°55 | 21°31 | 24°10 | 10°28 | 17°59 | 13°46 | 3°10 | 1°39 | 2°26 | 0°58 | 1°39 | 16°48 | M18 |
| T 19 | 15 46 39 | 27°53'45 | 5♎ 3 | 9°58 | 22°44 | 24°49 | 10°36 | 18° 3 | 13°48 | 3°10 | 1°41 | 2°R27 | 0°55 | 1°46 | 16°50 | T 19 |
| W20 | 15 50 35 | 28°51'22 | 16°52 | 11°58 | 23°57 | 25°29 | 10°43 | 18° 7 | 13°49 | 3° 9 | 1°42 | 2°25 | 0°52 | 1°53 | 16°51 | W20 |
| T 21 | 15 54 32 | 29°48'57 | 28°39 | 13°56 | 25°10 | 26° 8 | 10°51 | 18°11 | 13°50 | 3° 9 | 1°43 | 2°22 | 0°49 | 1°59 | 16°53 | T 21 |
| F 22 | 15 58 28 | 0♊46'31 | 10♏29 | 15°51 | 26°22 | 26°47 | 10°59 | 18°15 | 13°52 | 3° 8 | 1°45 | 2°16 | 0°46 | 2° 6 | 16°55 | F 22 |
| S 23 | 16 2 25 | 1°44'03 | 22°23 | 17°44 | 27°35 | 27°26 | 11° 7 | 18°18 | 13°53 | 3° 8 | 1°46 | 2° 8 | 0°43 | 2°13 | 16°56 | S 23 |
| S 24 | 16 6 21 | 2°41'35 | 4♐25 | 19°34 | 28°48 | 28° 5 | 11°15 | 18°22 | 13°54 | 3° 7 | 1°47 | 1°58 | 0°39 | 2°19 | 16°58 | S 24 |
| M25 | 16 10 18 | 3°39'05 | 16°34 | 21°22 | 0♋ 0 | 28°44 | 11°23 | 18°26 | 13°56 | 3° 7 | 1°49 | 1°47 | 0°36 | 2°26 | 16°59 | M25 |
| T 26 | 16 14 15 | 4°36'34 | 28°53 | 23° 7 | 1°13 | 29°23 | 11°31 | 18°29 | 13°57 | 3° 6 | 1°50 | 1°36 | 0°33 | 2°33 | 17° 1 | T 26 |
| W27 | 16 18 11 | 5°34'03 | 11♋22 | 24°49 | 2°25 | 0♋ 3 | 11°40 | 18°32 | 13°58 | 3° 5 | 1°51 | 1°26 | 0°30 | 2°39 | 17° 2 | W27 |
| T 28 | 16 22 8 | 6°31'30 | 24° 3 | 26°28 | 3°38 | 0°42 | 11°48 | 18°36 | 13°59 | 3° 5 | 1°53 | 1°17 | 0°27 | 2°46 | 17° 3 | T 28 |
| F 29 | 16 26 4 | 7°28'57 | 6♒55 | 28° 4 | 4°50 | 1°21 | 11°57 | 18°39 | 14° 0 | 3° 4 | 1°54 | 1°11 | 0°24 | 2°53 | 17° 4 | F 29 |
| S 30 | 16 30 1 | 8°26'23 | 20° 2 | 29°38 | 6° 2 | 2° 0 | 12° 5 | 18°42 | 14° 1 | 3° 3 | 1°55 | 1° 7 | 0°20 | 2°59 | 17° 6 | S 30 |
| S 31 | 16 33 57 | 9♊23'48 | 3♓26 | 1♋ 8 | 7♋15 | 2♋39 | 12♌14 | 18♓45 | 14♓ 2 | 3♒ 3 | 1♋57 | 1♈ 6 | 0♈17 | 3♏ 6 | 17♓ 7 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 15n 1 | 25s26 | 4s45 | 10n57 | 1s11 | 20n47 | 0n26 | 23n18 | 0n54 | 18n59 | 0n54 | 6s58 | 1s50 | 7s17 | 0s45 | 19s16 | 0n13 | 19n25 | 4s 4 | 1n13 | 0n45 | 13s40 | 1s11 | 4n39 |
| S 2 | 15 19 | 21 44 | 4 9 | 11 48 | 1 2 | 21 4 | 0 29 | 23 23 | 0 54 | 18 58 | 0 54 | 6 56 | 1 51 | 7 17 | 0 45 | 19 16 | 0 13 | 19 25 | 4 4 | 1 13 | 0 44 | 13 43 | 1 10 | 4 39 |
| S 3 | 15 37 | 16 50 | 3 19 | 12 38 | 0 53 | 21 21 | 0 31 | 23 28 | 0 55 | 18 56 | 0 54 | 6 55 | 1 51 | 7 16 | 0 45 | 19 16 | 0 13 | 19 25 | 4 4 | 1 13 | 0 42 | 13 46 | 1 9 | 4 39 |
| M 4 | 15 54 | 10 57 | 2 16 | 13 29 | 0 43 | 21 38 | 0 34 | 23 33 | 0 55 | 18 55 | 0 54 | 6 53 | 1 51 | 7 15 | 0 45 | 19 16 | 0 13 | 19 25 | 4 4 | 1 14 | 0 41 | 13 49 | 1 7 | 4 39 |
| T 5 | 16 12 | 4 20 | 1 3 | 14 19 | 0 33 | 21 53 | 0 36 | 23 37 | 0 55 | 18 53 | 0 54 | 6 51 | 1 51 | 7 14 | 0 45 | 19 16 | 0 13 | 19 25 | 4 3 | 1 14 | 0 40 | 13 52 | 1 6 | 4 39 |
| W 6 | 16 29 | 2n40 | 0n16 | 15 8 | 0 22 | 22 9 | 0 39 | 23 42 | 0 56 | 18 52 | 0 54 | 6 49 | 1 51 | 7 14 | 0 45 | 19 16 | 0 13 | 19 25 | 4 3 | 1 14 | 0 38 | 13 55 | 1 5 | 4 39 |
| T 7 | 16 45 | 9 41 | 1 35 | 15 57 | 0 12 | 22 23 | 0 41 | 23 46 | 0 56 | 18 50 | 0 54 | 6 47 | 1 52 | 7 13 | 0 45 | 19 16 | 0 13 | 19 25 | 4 3 | 1 14 | 0 37 | 13 59 | 1 4 | 4 40 |
| F 8 | 17 2 | 16 15 | 2 49 | 16 45 | 0 2 | 22 37 | 0 44 | 23 50 | 0 56 | 18 48 | 0 54 | 6 46 | 1 52 | 7 12 | 0 45 | 19 16 | 0 13 | 19 25 | 4 3 | 1 12 | 0 36 | 14 2 | 1 3 | 4 40 |
| S 9 | 17 18 | 21 50 | 3 51 | 17 32 | 0n 9 | 22 50 | 0 46 | 23 54 | 0 57 | 18 47 | 0 54 | 6 44 | 1 52 | 7 11 | 0 45 | 19 16 | 0 13 | 19 26 | 4 3 | 1 10 | 0 35 | 14 5 | 1 2 | 4 40 |
| S 10 | 17 34 | 25 57 | 4 36 | 18 18 | 0 20 | 23 3 | 0 49 | 23 58 | 0 57 | 18 45 | 0 54 | 6 42 | 1 52 | 7 11 | 0 45 | 19 16 | 0 13 | 19 26 | 4 3 | 1 8 | 0 33 | 14 8 | 1 1 | 4 40 |
| M11 | 17 50 | 28 13 | 5 2 | 19 2 | 0 30 | 23 15 | 0 51 | 24 1 | 0 57 | 18 43 | 0 53 | 6 41 | 1 52 | 7 10 | 0 45 | 19 16 | 0 13 | 19 26 | 4 3 | 1 5 | 0 32 | 14 11 | 1 0 | 4 40 |
| T 12 | 18 5 | 28 29 | 5 8 | 19 44 | 0 40 | 23 26 | 0 54 | 24 5 | 0 58 | 18 41 | 0 53 | 6 39 | 1 53 | 7 9 | 0 45 | 19 16 | 0 13 | 19 26 | 4 3 | 1 2 | 0 31 | 14 14 | 0 59 | 4 40 |
| W13 | 18 20 | 26 54 | 4 54 | 20 25 | 0 50 | 23 37 | 0 56 | 24 8 | 0 58 | 18 40 | 0 53 | 6 38 | 1 53 | 7 9 | 0 45 | 19 16 | 0 13 | 19 26 | 4 3 | 1 0 | 0 30 | 14 17 | 0 58 | 4 41 |
| T 14 | 18 35 | 23 47 | 4 25 | 21 3 | 1 0 | 23 47 | 0 58 | 24 11 | 0 58 | 18 38 | 0 53 | 6 36 | 1 53 | 7 8 | 0 46 | 19 16 | 0 13 | 19 26 | 4 2 | 0 58 | 0 28 | 14 20 | 0 57 | 4 41 |
| F 15 | 18 49 | 19 34 | 3 43 | 21 39 | 1 9 | 23 56 | 1 1 | 24 14 | 0 58 | 18 36 | 0 53 | 6 35 | 1 53 | 7 8 | 0 46 | 19 16 | 0 13 | 19 26 | 4 2 | 0 58 | 0 27 | 14 23 | 0 56 | 4 41 |
| S 16 | 19 3 | 14 35 | 2 51 | 22 13 | 1 18 | 24 5 | 1 3 | 24 16 | 0 59 | 18 34 | 0 53 | 6 33 | 1 53 | 7 7 | 0 46 | 19 16 | 0 13 | 19 26 | 4 2 | 0 58 | 0 26 | 14 26 | 0 56 | 4 41 |
| S 17 | 19 17 | 9 9 | 1 52 | 22 44 | 1 26 | 24 13 | 1 5 | 24 18 | 0 59 | 18 32 | 0 53 | 6 32 | 1 54 | 7 6 | 0 46 | 19 16 | 0 13 | 19 26 | 4 2 | 0 58 | 0 25 | 14 29 | 0 55 | 4 41 |
| M18 | 19 31 | 3 29 | 0 50 | 23 13 | 1 34 | 24 20 | 1 7 | 24 20 | 0 59 | 18 30 | 0 53 | 6 30 | 1 54 | 7 6 | 0 46 | 19 17 | 0 13 | 19 26 | 4 2 | 0 58 | 0 23 | 14 32 | 0 54 | 4 42 |
| T 19 | 19 44 | 2s14 | 0s14 | 23 39 | 1 41 | 24 26 | 1 10 | 24 22 | 0 59 | 18 28 | 0 53 | 6 29 | 1 54 | 7 5 | 0 46 | 19 17 | 0 13 | 19 27 | 4 2 | 0 58 | 0 22 | 14 35 | 0 53 | 4 42 |
| W20 | 19 57 | 7 49 | 1 17 | 24 2 | 1 47 | 24 32 | 1 12 | 24 24 | 1 0 | 18 25 | 0 53 | 6 28 | 1 54 | 7 5 | 0 46 | 19 17 | 0 13 | 19 27 | 4 2 | 0 58 | 0 21 | 14 38 | 0 52 | 4 42 |
| T 21 | 20 9 | 13 8 | 2 16 | 24 23 | 1 53 | 24 37 | 1 14 | 24 26 | 1 0 | 18 23 | 0 53 | 6 26 | 1 55 | 7 4 | 0 46 | 19 17 | 0 13 | 19 27 | 4 2 | 0 57 | 0 20 | 14 41 | 0 51 | 4 42 |
| F 22 | 20 21 | 17 59 | 3 9 | 24 41 | 1 58 | 24 42 | 1 16 | 24 27 | 1 0 | 18 21 | 0 53 | 6 25 | 1 55 | 7 4 | 0 46 | 19 17 | 0 13 | 19 27 | 4 2 | 0 54 | 0 18 | 14 44 | 0 51 | 4 42 |
| S 23 | 20 33 | 22 10 | 3 54 | 24 56 | 2 2 | 24 46 | 1 18 | 24 28 | 1 0 | 18 19 | 0 53 | 6 24 | 1 55 | 7 3 | 0 46 | 19 17 | 0 13 | 19 27 | 4 1 | 0 51 | 0 17 | 14 47 | 0 50 | 4 43 |
| S 24 | 20 44 | 25 28 | 4 29 | 25 9 | 2 5 | 24 49 | 1 20 | 24 29 | 1 1 | 18 17 | 0 53 | 6 23 | 1 55 | 7 3 | 0 46 | 19 17 | 0 13 | 19 27 | 4 1 | 0 47 | 0 16 | 14 50 | 0 49 | 4 43 |
| M25 | 20 55 | 27 40 | 4 53 | 25 20 | 2 8 | 24 51 | 1 22 | 24 30 | 1 1 | 18 14 | 0 52 | 6 21 | 1 56 | 7 2 | 0 46 | 19 17 | 0 13 | 19 27 | 4 1 | 0 43 | 0 14 | 14 53 | 0 48 | 4 43 |
| T 26 | 21 6 | 28 32 | 5 3 | 25 28 | 2 10 | 24 52 | 1 24 | 24 30 | 1 1 | 18 12 | 0 52 | 6 20 | 1 56 | 7 2 | 0 46 | 19 18 | 0 13 | 19 27 | 4 1 | 0 38 | 0 13 | 14 56 | 0 48 | 4 43 |
| W27 | 21 16 | 27 57 | 4 59 | 25 34 | 2 11 | 24 53 | 1 25 | 24 30 | 1 1 | 18 10 | 0 52 | 6 19 | 1 56 | 7 2 | 0 46 | 19 18 | 0 13 | 19 27 | 4 1 | 0 34 | 0 12 | 14 59 | 0 47 | 4 43 |
| T 28 | 21 26 | 25 56 | 4 40 | 25 37 | 2 11 | 24 53 | 1 27 | 24 31 | 1 2 | 18 7 | 0 52 | 6 18 | 1 56 | 7 1 | 0 46 | 19 18 | 0 13 | 19 27 | 4 1 | 0 31 | 0 11 | 15 3 | 0 46 | 4 44 |
| F 29 | 21 36 | 22 33 | 4 7 | 25 39 | 2 11 | 24 53 | 1 29 | 24 30 | 1 2 | 18 5 | 0 52 | 6 17 | 1 56 | 7 1 | 0 46 | 19 18 | 0 13 | 19 27 | 4 1 | 0 28 | 0 9 | 15 6 | 0 45 | 4 44 |
| S 30 | 21 45 | 17 59 | 3 20 | 25 39 | 2 10 | 24 51 | 1 31 | 24 30 | 1 2 | 18 2 | 0 52 | 6 16 | 1 57 | 7 1 | 0 46 | 19 18 | 0 13 | 19 27 | 4 1 | 0 27 | 0 8 | 15 9 | 0 45 | 4 44 |
| S 31 | 21n54 | 12s28 | 2s22 | 25n36 | 2n 7 | 24n49 | 1n32 | 24n30 | 1n 2 | 18n 0 | 0n52 | 6s15 | 1s57 | 7s 0 | 0s46 | 19s18 | 0n13 | 19n28 | 4s 1 | 0n26 | 0n 7 | 15s12 | 0s44 | 4n44 |

Julian Day Number = 2331500.5, Delta T = 28.89 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'09, Lahiri = 19°16'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## JUNE 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 37 54 | 10♊21'13 | 17♓ 7 | 2♋36 | 8♋27 | 3♋18 | 12♌23 | 18♓48 | 14♓ 3 | 3°R 2 | 1♋58 | 1°D 6 | 0♈14 | 3♏13 | 17♓ 8 | M 1 |
| T 2 | 16 41 50 | 11°18'36 | 1♈ 7 | 4° 0 | 9°39 | 3°56 | 12°32 | 18°51 | 14° 4 | 3♒ 1 | 1°59 | 1°R 6 | 0°11 | 3°19 | 17° 9 | T 2 |
| W 3 | 16 45 47 | 12°16'00 | 15°27 | 5°22 | 10°51 | 4°35 | 12°41 | 18°53 | 14° 4 | 3° 0 | 2° 1 | 1♈ 5 | 0° 8 | 3°26 | 17°10 | W 3 |
| T 4 | 16 49 44 | 13°13'23 | 0♉ 4 | 6°40 | 12° 4 | 5°14 | 12°51 | 18°56 | 14° 5 | 2°59 | 2° 2 | 1° 3 | 0° 4 | 3°33 | 17°11 | T 4 |
| F 5 | 16 53 40 | 14°10'45 | 14°55 | 7°56 | 13°16 | 5°53 | 13° 0 | 18°59 | 14° 6 | 2°58 | 2° 4 | 0°58 | 0° 1 | 3°39 | 17°12 | F 5 |
| S 6 | 16 57 37 | 15° 8'07 | 29°52 | 9° 8 | 14°28 | 6°32 | 13° 9 | 19° 1 | 14° 6 | 2°57 | 2° 5 | 0°50 | 29♓58 | 3°46 | 17°12 | S 6 |
| S 7 | 17 1 33 | 16° 5'28 | 14♊47 | 10°17 | 15°40 | 7°11 | 13°19 | 19° 3 | 14° 7 | 2°56 | 2° 7 | 0°40 | 29°55 | 3°53 | 17°13 | S 7 |
| M 8 | 17 5 30 | 17° 2'49 | 29°31 | 11°23 | 16°52 | 7°50 | 13°29 | 19° 6 | 14° 8 | 2°55 | 2° 8 | 0°29 | 29°52 | 3°59 | 17°14 | M 8 |
| T 9 | 17 9 26 | 18° 0'08 | 13♋56 | 12°26 | 18° 4 | 8°29 | 13°38 | 19° 8 | 14° 8 | 2°54 | 2° 9 | 0°19 | 29°49 | 4° 6 | 17°15 | T 9 |
| W10 | 17 13 23 | 18°57'27 | 27°56 | 13°25 | 19°16 | 9° 7 | 13°48 | 19°10 | 14° 9 | 2°53 | 2°11 | 0°10 | 29°45 | 4°13 | 17°15 | W10 |
| T 11 | 17 17 20 | 19°54'46 | 11♌28 | 14°21 | 20°28 | 9°46 | 13°58 | 19°12 | 14° 9 | 2°52 | 2°12 | 0° 3 | 29°42 | 4°19 | 17°16 | T 11 |
| F 12 | 17 21 16 | 20°52'03 | 24°33 | 15°13 | 21°40 | 10°25 | 14° 8 | 19°14 | 14° 9 | 2°51 | 2°14 | 29♓58 | 29°39 | 4°26 | 17°16 | F 12 |
| S 13 | 17 25 13 | 21°49'19 | 7♍13 | 16° 1 | 22°52 | 11° 4 | 14°18 | 19°16 | 14°10 | 2°50 | 2°15 | 29°56 | 29°36 | 4°33 | 17°17 | S 13 |
| S 14 | 17 29 9 | 22°46'35 | 19°32 | 16°46 | 24° 3 | 11°42 | 14°28 | 19°17 | 14°10 | 2°49 | 2°17 | 29°55 | 29°33 | 4°39 | 17°17 | S 14 |
| M15 | 17 33 6 | 23°43'50 | 1♎36 | 17°26 | 25°15 | 12°21 | 14°39 | 19°19 | 14°10 | 2°48 | 2°18 | 29°55 | 29°30 | 4°46 | 17°17 | M15 |
| T 16 | 17 37 2 | 24°41'04 | 13°30 | 18° 3 | 26°27 | 13° 0 | 14°49 | 19°20 | 14°10 | 2°47 | 2°20 | 29°55 | 29°26 | 4°53 | 17°17 | T 16 |
| W17 | 17 40 59 | 25°38'17 | 25°19 | 18°36 | 27°38 | 13°39 | 14°59 | 19°22 | 14°10 | 2°45 | 2°21 | 29°53 | 29°23 | 4°59 | 17°18 | W17 |
| T 18 | 17 44 55 | 26°35'30 | 7♏ 8 | 19° 4 | 28°50 | 14°17 | 15°10 | 19°23 | 14°10 | 2°44 | 2°23 | 29°49 | 29°20 | 5° 6 | 17°18 | T 18 |
| F 19 | 17 48 52 | 27°32'42 | 19° 1 | 19°28 | 0♌ 1 | 14°56 | 15°21 | 19°24 | 14°R10 | 2°43 | 2°24 | 29°42 | 29°17 | 5°13 | 17°18 | F 19 |
| S 20 | 17 52 48 | 28°29'54 | 1♐ 1 | 19°48 | 1°13 | 15°34 | 15°31 | 19°25 | 14°10 | 2°42 | 2°26 | 29°32 | 29°14 | 5°19 | 17°R18 | S 20 |
| S 21 | 17 56 45 | 29°27'06 | 13°12 | 20° 3 | 2°24 | 16°13 | 15°42 | 19°26 | 14°10 | 2°40 | 2°27 | 29°21 | 29°10 | 5°26 | 17°18 | S 21 |
| M22 | 18 0 42 | 0♋24'17 | 25°34 | 20°14 | 3°36 | 16°52 | 15°53 | 19°27 | 14°10 | 2°39 | 2°29 | 29° 8 | 29° 7 | 5°33 | 17°18 | M22 |
| T 23 | 18 4 38 | 1°21'28 | 8♑ 8 | 20°20 | 4°47 | 17°30 | 16° 4 | 19°28 | 14°10 | 2°38 | 2°30 | 28°55 | 29° 4 | 5°39 | 17°18 | T 23 |
| W24 | 18 8 35 | 2°18'39 | 20°55 | 20°R21 | 5°58 | 18° 9 | 16°15 | 19°29 | 14°10 | 2°36 | 2°31 | 28°42 | 29° 1 | 5°46 | 17°18 | W24 |
| T 25 | 18 12 31 | 3°15'49 | 3♒53 | 20°18 | 7° 9 | 18°47 | 16°26 | 19°29 | 14° 9 | 2°35 | 2°33 | 28°32 | 28°58 | 5°53 | 17°17 | T 25 |
| F 26 | 18 16 28 | 4°13'00 | 17° 2 | 20°10 | 8°20 | 19°26 | 16°37 | 19°30 | 14° 9 | 2°34 | 2°34 | 28°25 | 28°55 | 5°59 | 17°17 | F 26 |
| S 27 | 18 20 24 | 5°10'11 | 0♓23 | 19°58 | 9°31 | 20° 4 | 16°48 | 19°30 | 14° 9 | 2°32 | 2°36 | 28°20 | 28°51 | 6° 6 | 17°17 | S 27 |
| S 28 | 18 24 21 | 6° 7'22 | 13°55 | 19°41 | 10°42 | 20°43 | 16°59 | 19°31 | 14° 8 | 2°31 | 2°37 | 28°18 | 28°48 | 6°13 | 17°16 | S 28 |
| M29 | 18 28 18 | 7° 4'33 | 27°39 | 19°21 | 11°53 | 21°21 | 17°11 | 19°31 | 14° 8 | 2°30 | 2°39 | 28°D18 | 28°45 | 6°19 | 17°16 | M29 |
| T 30 | 18 32 14 | 8♋ 1'44 | 11♈36 | 18♋56 | 13♌ 4 | 22♋ 0 | 17♌22 | 19♓31 | 14♓ 7 | 2♒28 | 2♋40 | 28°R18 | 28♓42 | 6♏26 | 17♓15 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22n 3 | 6s14 | 1s14 | 25n32 | 2n 5 | 24n46 | 1n34 | 24n29 | 1n 2 | 17n57 | 0n52 | 6s14 | 1s57 | 7s 0 | 0s46 | 19s19 | 0n13 | 19n28 | 4s 1 | 0n26 | 0n 6 | 15s15 | 0s44 | 4n44 |
| T 2 | 22 11 | 0n27 | 0n 0 | 25 26 | 2 1 | 24 43 | 1 35 | 24 28 | 1 3 | 17 54 | 0 52 | 6 13 | 1 57 | 7 0 | 0 46 | 19 19 | 0 13 | 19 28 | 4 1 | 0 26 | 0 4 | 15 18 | 0 43 | 4 45 |
| W 3 | 22 18 | 7 15 | 1 15 | 25 19 | 1 57 | 24 39 | 1 37 | 24 27 | 1 3 | 17 52 | 0 52 | 6 12 | 1 58 | 6 59 | 0 46 | 19 19 | 0 13 | 19 28 | 4 0 | 0 26 | 0 3 | 15 21 | 0 42 | 4 45 |
| T 4 | 22 26 | 13 49 | 2 27 | 25 10 | 1 52 | 24 34 | 1 38 | 24 26 | 1 3 | 17 49 | 0 52 | 6 12 | 1 58 | 6 59 | 0 46 | 19 19 | 0 13 | 19 28 | 4 0 | 0 25 | 0 2 | 15 24 | 0 42 | 4 45 |
| F 5 | 22 33 | 19 41 | 3 30 | 25 0 | 1 46 | 24 28 | 1 39 | 24 24 | 1 3 | 17 46 | 0 52 | 6 11 | 1 58 | 6 59 | 0 46 | 19 19 | 0 13 | 19 28 | 4 0 | 0 23 | 0 1 | 15 26 | 0 41 | 4 45 |
| S 6 | 22 39 | 24 23 | 4 19 | 24 49 | 1 39 | 24 22 | 1 40 | 24 23 | 1 3 | 17 44 | 0 52 | 6 10 | 1 58 | 6 59 | 0 46 | 19 20 | 0 13 | 19 28 | 4 0 | 0 20 | 0s 1 | 15 29 | 0 41 | 4 45 |
| S 7 | 22 45 | 27 25 | 4 50 | 24 37 | 1 32 | 24 15 | 1 42 | 24 21 | 1 4 | 17 41 | 0 52 | 6 9 | 1 59 | 6 58 | 0 46 | 19 20 | 0 13 | 19 28 | 4 0 | 0 16 | 0 2 | 15 32 | 0 40 | 4 46 |
| M 8 | 22 51 | 28 30 | 5 1 | 24 23 | 1 24 | 24 7 | 1 43 | 24 19 | 1 4 | 17 38 | 0 52 | 6 9 | 1 59 | 6 58 | 0 46 | 19 20 | 0 13 | 19 28 | 4 0 | 0 12 | 0 3 | 15 35 | 0 40 | 4 46 |
| T 9 | 22 57 | 27 37 | 4 53 | 24 9 | 1 15 | 23 59 | 1 44 | 24 17 | 1 4 | 17 35 | 0 52 | 6 8 | 1 59 | 6 58 | 0 47 | 19 20 | 0 13 | 19 28 | 4 0 | 0 7 | 0 5 | 15 38 | 0 39 | 4 46 |
| W10 | 23 1 | 24 58 | 4 27 | 23 54 | 1 6 | 23 49 | 1 45 | 24 14 | 1 4 | 17 32 | 0 52 | 6 8 | 1 59 | 6 58 | 0 47 | 19 21 | 0 13 | 19 28 | 4 0 | 0 4 | 0 6 | 15 41 | 0 39 | 4 46 |
| T 11 | 23 6 | 21 0 | 3 47 | 23 38 | 0 55 | 23 40 | 1 46 | 24 12 | 1 4 | 17 29 | 0 52 | 6 7 | 2 0 | 6 58 | 0 47 | 19 21 | 0 13 | 19 28 | 4 0 | 0 1 | 0 7 | 15 44 | 0 39 | 4 47 |
| F 12 | 23 10 | 16 7 | 2 56 | 23 21 | 0 45 | 23 29 | 1 46 | 24 9 | 1 5 | 17 26 | 0 52 | 6 7 | 2 0 | 6 58 | 0 47 | 19 21 | 0 13 | 19 28 | 4 0 | 0s 1 | 0 8 | 15 47 | 0 38 | 4 47 |
| S 13 | 23 14 | 10 41 | 1 57 | 23 4 | 0 33 | 23 18 | 1 47 | 24 6 | 1 5 | 17 23 | 0 52 | 6 6 | 2 0 | 6 58 | 0 47 | 19 21 | 0 13 | 19 28 | 4 0 | 0 2 | 0 10 | 15 50 | 0 38 | 4 47 |
| S 14 | 23 17 | 4 59 | 0 55 | 22 47 | 0 21 | 23 6 | 1 48 | 24 3 | 1 5 | 17 20 | 0 51 | 6 6 | 2 1 | 6 58 | 0 47 | 19 22 | 0 13 | 19 28 | 4 0 | 0 2 | 0 11 | 15 53 | 0 37 | 4 47 |
| M15 | 23 20 | 0s47 | 0s 9 | 22 29 | 0 9 | 22 54 | 1 48 | 23 59 | 1 5 | 17 17 | 0 51 | 6 5 | 2 1 | 6 58 | 0 47 | 19 22 | 0 13 | 19 28 | 4 0 | 0 2 | 0 12 | 15 56 | 0 37 | 4 47 |
| T 16 | 23 23 | 6 26 | 1 11 | 22 11 | 0s 5 | 22 41 | 1 49 | 23 56 | 1 5 | 17 14 | 0 51 | 6 5 | 2 1 | 6 58 | 0 47 | 19 22 | 0 13 | 19 28 | 3 59 | 0 2 | 0 13 | 15 59 | 0 37 | 4 48 |
| W17 | 23 25 | 11 50 | 2 10 | 21 53 | 0 18 | 22 27 | 1 49 | 23 52 | 1 5 | 17 11 | 0 51 | 6 5 | 2 1 | 6 58 | 0 47 | 19 22 | 0 13 | 19 28 | 3 59 | 0 3 | 0 15 | 16 2 | 0 37 | 4 48 |
| T 18 | 23 26 | 16 48 | 3 3 | 21 35 | 0 33 | 22 13 | 1 50 | 23 48 | 1 6 | 17 8 | 0 51 | 6 4 | 2 2 | 6 58 | 0 47 | 19 23 | 0 13 | 19 28 | 3 59 | 0 5 | 0 16 | 16 5 | 0 36 | 4 48 |
| F 19 | 23 28 | 21 10 | 3 49 | 21 17 | 0 47 | 21 58 | 1 50 | 23 44 | 1 6 | 17 5 | 0 51 | 6 4 | 2 2 | 6 58 | 0 47 | 19 23 | 0 13 | 19 29 | 3 59 | 0 7 | 0 17 | 16 8 | 0 36 | 4 48 |
| S 20 | 23 29 | 24 43 | 4 24 | 21 0 | 1 2 | 21 43 | 1 50 | 23 40 | 1 6 | 17 2 | 0 51 | 6 4 | 2 2 | 6 58 | 0 47 | 19 23 | 0 13 | 19 29 | 3 59 | 0 11 | 0 18 | 16 11 | 0 36 | 4 48 |
| S 21 | 23 29 | 27 12 | 4 48 | 20 42 | 1 18 | 21 27 | 1 50 | 23 35 | 1 6 | 16 58 | 0 51 | 6 4 | 2 2 | 6 58 | 0 47 | 19 24 | 0 13 | 19 29 | 3 59 | 0 16 | 0 20 | 16 14 | 0 36 | 4 49 |
| M22 | 23 29 | 28 24 | 4 59 | 20 25 | 1 33 | 21 10 | 1 50 | 23 31 | 1 6 | 16 55 | 0 51 | 6 4 | 2 3 | 6 58 | 0 47 | 19 24 | 0 13 | 19 29 | 3 59 | 0 21 | 0 21 | 16 17 | 0 36 | 4 49 |
| T 23 | 23 29 | 28 10 | 4 56 | 20 9 | 1 49 | 20 53 | 1 50 | 23 26 | 1 6 | 16 52 | 0 51 | 6 4 | 2 3 | 6 58 | 0 47 | 19 24 | 0 13 | 19 29 | 3 59 | 0 26 | 0 22 | 16 20 | 0 35 | 4 49 |
| W24 | 23 28 | 26 26 | 4 38 | 19 53 | 2 5 | 20 35 | 1 50 | 23 21 | 1 6 | 16 49 | 0 51 | 6 4 | 2 3 | 6 58 | 0 47 | 19 25 | 0 13 | 19 29 | 3 59 | 0 31 | 0 24 | 16 23 | 0 35 | 4 49 |
| T 25 | 23 27 | 23 18 | 4 6 | 19 37 | 2 21 | 20 17 | 1 50 | 23 16 | 1 6 | 16 45 | 0 51 | 6 4 | 2 3 | 6 58 | 0 47 | 19 25 | 0 13 | 19 29 | 3 59 | 0 35 | 0 25 | 16 25 | 0 35 | 4 50 |
| F 26 | 23 25 | 18 55 | 3 19 | 19 23 | 2 37 | 19 58 | 1 49 | 23 10 | 1 7 | 16 42 | 0 51 | 6 4 | 2 4 | 6 58 | 0 47 | 19 25 | 0 13 | 19 29 | 3 59 | 0 38 | 0 26 | 16 28 | 0 35 | 4 50 |
| S 27 | 23 23 | 13 34 | 2 22 | 19 9 | 2 52 | 19 39 | 1 49 | 23 5 | 1 7 | 16 38 | 0 51 | 6 4 | 2 4 | 6 59 | 0 47 | 19 25 | 0 13 | 19 29 | 3 59 | 0 40 | 0 27 | 16 31 | 0 35 | 4 50 |
| S 28 | 23 21 | 7 30 | 1 15 | 18 56 | 3 8 | 19 19 | 1 48 | 22 59 | 1 7 | 16 35 | 0 51 | 6 4 | 2 4 | 6 59 | 0 47 | 19 26 | 0 13 | 19 29 | 3 59 | 0 41 | 0 29 | 16 34 | 0 35 | 4 50 |
| M29 | 23 18 | 0 59 | 0 3 | 18 45 | 3 22 | 18 59 | 1 48 | 22 53 | 1 7 | 16 32 | 0 51 | 6 4 | 2 4 | 6 59 | 0 47 | 19 26 | 0 13 | 19 29 | 3 59 | 0 41 | 0 30 | 16 37 | 0 35 | 4 50 |
| T 30 | 23n14 | 5n40 | 1n10 | 18n34 | 3s36 | 18n38 | 1n47 | 22n47 | 1n 7 | 16n28 | 0n51 | 6s 4 | 2s 5 | 6s59 | 0s47 | 19s26 | 0n13 | 19n29 | 3s59 | 0s41 | 0s31 | 16s40 | 0s35 | 4n51 |

Julian Day Number = 2331531.5, Delta T = 28.84 sec
Ecliptic obliquity = 23°29'04, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'13, Lahiri = 19°16'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## JULY 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 36 11 | 8♋58'56 | 25♈45 | 18°R28 | 14♌15 | 22♋38 | 17♌34 | 19°R31 | 14°R 7 | 2°R27 | 2♋42 | 28°R17 | 28♓39 | 6♏33 | 17°R15 | W 1 |
| T 2 | 18 40 7 | 9°56'08 | 10♉ 6 | 17♋57 | 15°26 | 23°17 | 17°45 | 19♓31 | 14♓ 6 | 2♒25 | 2°43 | 28♓14 | 28°36 | 6°39 | 17♓14 | T 2 |
| F 3 | 18 44 4 | 10°53'20 | 24°36 | 17°24 | 16°37 | 23°55 | 17°57 | 19°31 | 14° 5 | 2°24 | 2°45 | 28° 9 | 28°32 | 6°46 | 17°13 | F 3 |
| S 4 | 18 48 0 | 11°50'33 | 9♊10 | 16°48 | 17°47 | 24°34 | 18° 8 | 19°30 | 14° 5 | 2°22 | 2°46 | 28° 1 | 28°29 | 6°53 | 17°13 | S 4 |
| S 5 | 18 51 57 | 12°47'46 | 23°43 | 16°10 | 18°58 | 25°12 | 18°20 | 19°30 | 14° 4 | 2°21 | 2°48 | 27°52 | 28°26 | 6°59 | 17°12 | S 5 |
| M 6 | 18 55 53 | 13°45'00 | 8♋ 7 | 15°32 | 20° 8 | 25°50 | 18°32 | 19°30 | 14° 3 | 2°19 | 2°49 | 27°41 | 28°23 | 7° 6 | 17°11 | M 6 |
| T 7 | 18 59 50 | 14°42'14 | 22°17 | 14°54 | 21°19 | 26°29 | 18°44 | 19°29 | 14° 2 | 2°18 | 2°51 | 27°30 | 28°20 | 7°13 | 17°10 | T 7 |
| W 8 | 19 3 47 | 15°39'28 | 6♌ 6 | 14°15 | 22°29 | 27° 7 | 18°56 | 19°28 | 14° 2 | 2°16 | 2°52 | 27°21 | 28°16 | 7°20 | 17° 9 | W 8 |
| T 9 | 19 7 43 | 16°36'42 | 19°33 | 13°38 | 23°40 | 27°46 | 19° 8 | 19°27 | 14° 1 | 2°15 | 2°54 | 27°13 | 28°13 | 7°26 | 17° 8 | T 9 |
| F 10 | 19 11 40 | 17°33'56 | 2♍35 | 13° 3 | 24°50 | 28°24 | 19°20 | 19°27 | 14° 0 | 2°13 | 2°55 | 27° 8 | 28°10 | 7°33 | 17° 7 | F 10 |
| S 11 | 19 15 36 | 18°31'11 | 15°14 | 12°29 | 26° 0 | 29° 2 | 19°32 | 19°26 | 13°59 | 2°12 | 2°57 | 27° 6 | 28° 7 | 7°40 | 17° 6 | S 11 |
| S 12 | 19 19 33 | 19°28'25 | 27°34 | 11°59 | 27°10 | 29°41 | 19°44 | 19°24 | 13°58 | 2°10 | 2°58 | 27°D 5 | 28° 4 | 7°46 | 17° 5 | S 12 |
| M13 | 19 23 29 | 20°25'40 | 9♎39 | 11°32 | 28°20 | 0♌19 | 19°56 | 19°23 | 13°56 | 2° 8 | 2°59 | 27° 6 | 28° 1 | 7°53 | 17° 4 | M13 |
| T 14 | 19 27 26 | 21°22'55 | 21°34 | 11° 9 | 29°30 | 0°57 | 20° 8 | 19°22 | 13°55 | 2° 7 | 3° 1 | 27°R 6 | 27°57 | 8° 0 | 17° 2 | T 14 |
| W15 | 19 31 22 | 22°20'10 | 3♏25 | 10°51 | 0♍40 | 1°36 | 20°20 | 19°21 | 13°54 | 2° 5 | 3° 2 | 27° 5 | 27°54 | 8° 6 | 17° 1 | W15 |
| T 16 | 19 35 19 | 23°17'25 | 15°16 | 10°37 | 1°50 | 2°14 | 20°32 | 19°19 | 13°53 | 2° 4 | 3° 4 | 27° 3 | 27°51 | 8°13 | 17° 0 | T 16 |
| F 17 | 19 39 16 | 24°14'41 | 27°12 | 10°29 | 2°59 | 2°52 | 20°45 | 19°18 | 13°52 | 2° 2 | 3° 5 | 26°58 | 27°48 | 8°20 | 16°58 | F 17 |
| S 18 | 19 43 12 | 25°11'57 | 9♐18 | 10°D26 | 4° 9 | 3°31 | 20°57 | 19°16 | 13°50 | 2° 0 | 3° 6 | 26°51 | 27°45 | 8°26 | 16°57 | S 18 |
| S 19 | 19 47 9 | 26° 9'14 | 21°36 | 10°29 | 5°19 | 4° 9 | 21° 9 | 19°14 | 13°49 | 1°59 | 3° 8 | 26°43 | 27°42 | 8°33 | 16°55 | S 19 |
| M20 | 19 51 5 | 27° 6'31 | 4♑10 | 10°37 | 6°28 | 4°47 | 21°22 | 19°12 | 13°48 | 1°57 | 3° 9 | 26°33 | 27°38 | 8°40 | 16°54 | M20 |
| T 21 | 19 55 2 | 28° 3'49 | 16°59 | 10°52 | 7°37 | 5°25 | 21°34 | 19°10 | 13°46 | 1°56 | 3°11 | 26°22 | 27°35 | 8°46 | 16°52 | T 21 |
| W22 | 19 58 58 | 29° 1'07 | 0♒ 4 | 11°12 | 8°47 | 6° 4 | 21°47 | 19° 8 | 13°45 | 1°54 | 3°12 | 26°13 | 27°32 | 8°53 | 16°51 | W22 |
| T 23 | 20 2 55 | 29°58'26 | 13°24 | 11°39 | 9°56 | 6°42 | 21°59 | 19° 6 | 13°43 | 1°52 | 3°13 | 26° 5 | 27°29 | 9° 0 | 16°49 | T 23 |
| F 24 | 20 6 52 | 0♌55'45 | 26°56 | 12°11 | 11° 5 | 7°20 | 22°12 | 19° 4 | 13°42 | 1°51 | 3°15 | 26° 0 | 27°26 | 9° 6 | 16°47 | F 24 |
| S 25 | 20 10 48 | 1°53'06 | 10♓38 | 12°50 | 12°14 | 7°58 | 22°25 | 19° 2 | 13°40 | 1°49 | 3°16 | 25°56 | 27°22 | 9°13 | 16°46 | S 25 |
| S 26 | 20 14 45 | 2°50'28 | 24°30 | 13°34 | 13°23 | 8°37 | 22°37 | 18°59 | 13°39 | 1°47 | 3°17 | 25°D55 | 27°19 | 9°20 | 16°44 | S 26 |
| M27 | 20 18 41 | 3°47'50 | 8♈28 | 14°25 | 14°31 | 9°15 | 22°50 | 18°57 | 13°37 | 1°46 | 3°19 | 25°56 | 27°16 | 9°26 | 16°42 | M27 |
| T 28 | 20 22 38 | 4°45'14 | 22°32 | 15°21 | 15°40 | 9°53 | 23° 3 | 18°54 | 13°35 | 1°44 | 3°20 | 25°57 | 27°13 | 9°33 | 16°40 | T 28 |
| W29 | 20 26 34 | 5°42'39 | 6♉40 | 16°23 | 16°49 | 10°31 | 23°15 | 18°52 | 13°33 | 1°42 | 3°21 | 25°R57 | 27°10 | 9°40 | 16°38 | W29 |
| T 30 | 20 30 31 | 6°40'05 | 20°52 | 17°31 | 17°57 | 11°10 | 23°28 | 18°49 | 13°32 | 1°41 | 3°22 | 25°56 | 27° 7 | 9°46 | 16°36 | T 30 |
| F 31 | 20 34 27 | 7♌37'33 | 5♊ 5 | 18♋44 | 19♍ 5 | 11♌48 | 23♌41 | 18♓46 | 13♓30 | 1♒39 | 3♋24 | 25♓54 | 27♓ 3 | 9♏53 | 16♓34 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23n11 | 12n 8 | 2n20 | 18n25 | 3s50 | 18n17 | 1n46 | 22n41 | 1n 7 | 16n25 | 0n51 | 6s 4 | 2s 5 | 6s59 | 0s47 | 19s27 | 0n13 | 19n29 | 3s59 | 0s41 | 0s32 | 16s43 | 0s35 | 4n51 |
| T 2 | 23 7 | 18 4 | 3 22 | 18 17 | 4 2 | 17 55 | 1 46 | 22 35 | 1 7 | 16 21 | 0 51 | 6 5 | 2 5 | 7 0 | 0 47 | 19 27 | 0 13 | 19 29 | 3 59 | 0 42 | 0 34 | 16 46 | 0 35 | 4 51 |
| F 3 | 23 2 | 23 1 | 4 12 | 18 10 | 4 13 | 17 33 | 1 45 | 22 28 | 1 7 | 16 17 | 0 51 | 6 5 | 2 5 | 7 0 | 0 47 | 19 27 | 0 13 | 19 29 | 3 59 | 0 44 | 0 35 | 16 49 | 0 35 | 4 51 |
| S 4 | 22 57 | 26 34 | 4 45 | 18 4 | 4 23 | 17 10 | 1 44 | 22 21 | 1 7 | 16 14 | 0 51 | 6 5 | 2 6 | 7 0 | 0 47 | 19 28 | 0 13 | 19 29 | 3 59 | 0 47 | 0 36 | 16 51 | 0 35 | 4 51 |
| S 5 | 22 52 | 28 20 | 5 1 | 18 0 | 4 32 | 16 47 | 1 42 | 22 15 | 1 8 | 16 10 | 0 51 | 6 6 | 2 6 | 7 1 | 0 47 | 19 28 | 0 13 | 19 29 | 3 58 | 0 51 | 0 37 | 16 54 | 0 35 | 4 52 |
| M 6 | 22 46 | 28 10 | 4 56 | 17 57 | 4 39 | 16 24 | 1 41 | 22 8 | 1 8 | 16 6 | 0 51 | 6 6 | 2 6 | 7 1 | 0 48 | 19 29 | 0 13 | 19 29 | 3 58 | 0 55 | 0 39 | 16 57 | 0 36 | 4 52 |
| T 7 | 22 40 | 26 9 | 4 34 | 17 56 | 4 45 | 16 0 | 1 40 | 22 0 | 1 8 | 16 3 | 0 51 | 6 7 | 2 7 | 7 1 | 0 48 | 19 29 | 0 13 | 19 29 | 3 58 | 1 0 | 0 40 | 17 0 | 0 36 | 4 52 |
| W 8 | 22 34 | 22 35 | 3 56 | 17 55 | 4 49 | 15 36 | 1 39 | 21 53 | 1 8 | 15 59 | 0 51 | 6 7 | 2 7 | 7 2 | 0 48 | 19 29 | 0 13 | 19 29 | 3 58 | 1 3 | 0 41 | 17 3 | 0 36 | 4 52 |
| T 9 | 22 27 | 17 55 | 3 5 | 17 57 | 4 52 | 15 11 | 1 37 | 21 45 | 1 8 | 15 55 | 0 51 | 6 8 | 2 7 | 7 2 | 0 48 | 19 30 | 0 13 | 19 29 | 3 58 | 1 6 | 0 43 | 17 6 | 0 36 | 4 52 |
| F 10 | 22 20 | 12 32 | 2 6 | 17 59 | 4 53 | 14 46 | 1 35 | 21 38 | 1 8 | 15 52 | 0 51 | 6 8 | 2 7 | 7 2 | 0 48 | 19 30 | 0 13 | 19 29 | 3 58 | 1 8 | 0 44 | 17 9 | 0 36 | 4 53 |
| S 11 | 22 12 | 6 47 | 1 3 | 18 3 | 4 52 | 14 21 | 1 34 | 21 30 | 1 8 | 15 48 | 0 51 | 6 9 | 2 8 | 7 3 | 0 48 | 19 30 | 0 13 | 19 29 | 3 58 | 1 9 | 0 45 | 17 11 | 0 37 | 4 53 |
| S 12 | 22 4 | 0 56 | 0s 3 | 18 8 | 4 49 | 13 55 | 1 32 | 21 22 | 1 8 | 15 44 | 0 51 | 6 10 | 2 8 | 7 3 | 0 48 | 19 31 | 0 13 | 19 29 | 3 58 | 1 10 | 0 46 | 17 14 | 0 37 | 4 53 |
| M13 | 21 56 | 4s51 | 1 6 | 18 15 | 4 45 | 13 29 | 1 30 | 21 14 | 1 8 | 15 40 | 0 51 | 6 10 | 2 8 | 7 4 | 0 48 | 19 31 | 0 13 | 19 29 | 3 58 | 1 9 | 0 48 | 17 17 | 0 37 | 4 53 |
| T 14 | 21 47 | 10 23 | 2 7 | 18 22 | 4 40 | 13 3 | 1 28 | 21 6 | 1 8 | 15 36 | 0 51 | 6 11 | 2 8 | 7 4 | 0 48 | 19 31 | 0 12 | 19 29 | 3 58 | 1 9 | 0 49 | 17 20 | 0 37 | 4 53 |
| W15 | 21 38 | 15 31 | 3 1 | 18 30 | 4 33 | 12 36 | 1 26 | 20 57 | 1 8 | 15 32 | 0 51 | 6 12 | 2 9 | 7 5 | 0 48 | 19 32 | 0 12 | 19 29 | 3 58 | 1 10 | 0 50 | 17 23 | 0 38 | 4 53 |
| T 16 | 21 28 | 20 4 | 3 48 | 18 40 | 4 25 | 12 9 | 1 24 | 20 49 | 1 8 | 15 29 | 0 51 | 6 13 | 2 9 | 7 5 | 0 48 | 19 32 | 0 12 | 19 29 | 3 58 | 1 11 | 0 51 | 17 26 | 0 38 | 4 54 |
| F 17 | 21 18 | 23 51 | 4 24 | 18 50 | 4 15 | 11 42 | 1 22 | 20 40 | 1 8 | 15 25 | 0 51 | 6 13 | 2 9 | 7 6 | 0 48 | 19 33 | 0 12 | 19 29 | 3 58 | 1 12 | 0 53 | 17 28 | 0 39 | 4 54 |
| S 18 | 21 8 | 26 40 | 4 50 | 19 0 | 4 5 | 11 14 | 1 19 | 20 31 | 1 9 | 15 21 | 0 51 | 6 14 | 2 9 | 7 6 | 0 48 | 19 33 | 0 12 | 19 29 | 3 58 | 1 15 | 0 54 | 17 31 | 0 39 | 4 54 |
| S 19 | 20 58 | 28 15 | 5 3 | 19 12 | 3 53 | 10 46 | 1 17 | 20 22 | 1 9 | 15 17 | 0 51 | 6 15 | 2 10 | 7 7 | 0 48 | 19 33 | 0 12 | 19 29 | 3 58 | 1 19 | 0 55 | 17 34 | 0 39 | 4 54 |
| M20 | 20 47 | 28 26 | 5 1 | 19 24 | 3 41 | 10 18 | 1 14 | 20 13 | 1 9 | 15 13 | 0 51 | 6 16 | 2 10 | 7 7 | 0 48 | 19 34 | 0 12 | 19 29 | 3 58 | 1 23 | 0 56 | 17 37 | 0 40 | 4 54 |
| T 21 | 20 35 | 27 7 | 4 45 | 19 36 | 3 28 | 9 50 | 1 12 | 20 4 | 1 9 | 15 9 | 0 51 | 6 17 | 2 10 | 7 8 | 0 48 | 19 34 | 0 12 | 19 29 | 3 58 | 1 27 | 0 58 | 17 40 | 0 40 | 4 54 |
| W22 | 20 24 | 24 18 | 4 13 | 19 48 | 3 14 | 9 22 | 1 9 | 19 54 | 1 9 | 15 5 | 0 51 | 6 18 | 2 10 | 7 9 | 0 48 | 19 34 | 0 12 | 19 29 | 3 58 | 1 30 | 0 59 | 17 43 | 0 41 | 4 55 |
| T 23 | 20 12 | 20 8 | 3 27 | 20 0 | 2 59 | 8 53 | 1 6 | 19 45 | 1 9 | 15 1 | 0 51 | 6 19 | 2 10 | 7 9 | 0 48 | 19 35 | 0 12 | 19 29 | 3 58 | 1 34 | 1 0 | 17 45 | 0 41 | 4 55 |
| F 24 | 19 59 | 14 53 | 2 29 | 20 12 | 2 45 | 8 24 | 1 4 | 19 35 | 1 9 | 14 56 | 0 51 | 6 20 | 2 11 | 7 10 | 0 48 | 19 35 | 0 12 | 19 29 | 3 58 | 1 36 | 1 1 | 17 48 | 0 42 | 4 55 |
| S 25 | 19 47 | 8 51 | 1 21 | 20 23 | 2 30 | 7 55 | 1 1 | 19 25 | 1 9 | 14 52 | 0 51 | 6 21 | 2 11 | 7 10 | 0 48 | 19 36 | 0 12 | 19 29 | 3 58 | 1 37 | 1 3 | 17 51 | 0 42 | 4 55 |
| S 26 | 19 34 | 2 19 | 0 8 | 20 34 | 2 14 | 7 26 | 0 58 | 19 15 | 1 9 | 14 48 | 0 51 | 6 23 | 2 11 | 7 11 | 0 48 | 19 36 | 0 12 | 19 29 | 3 58 | 1 37 | 1 4 | 17 54 | 0 43 | 4 55 |
| M27 | 19 20 | 4n23 | 1n 7 | 20 44 | 1 59 | 6 56 | 0 54 | 19 5 | 1 9 | 14 44 | 0 51 | 6 24 | 2 11 | 7 12 | 0 48 | 19 36 | 0 12 | 19 29 | 3 58 | 1 37 | 1 5 | 17 56 | 0 44 | 4 55 |
| T 28 | 19 7 | 10 55 | 2 18 | 20 53 | 1 43 | 6 27 | 0 51 | 18 55 | 1 9 | 14 40 | 0 51 | 6 25 | 2 12 | 7 12 | 0 48 | 19 37 | 0 12 | 19 29 | 3 58 | 1 37 | 1 7 | 17 59 | 0 44 | 4 55 |
| W29 | 18 53 | 16 56 | 3 21 | 21 1 | 1 28 | 5 57 | 0 48 | 18 44 | 1 9 | 14 36 | 0 51 | 6 26 | 2 12 | 7 13 | 0 48 | 19 37 | 0 12 | 19 29 | 3 58 | 1 37 | 1 8 | 18 2 | 0 45 | 4 56 |
| T 30 | 18 38 | 22 3 | 4 12 | 21 8 | 1 13 | 5 27 | 0 45 | 18 34 | 1 9 | 14 32 | 0 51 | 6 27 | 2 12 | 7 14 | 0 48 | 19 37 | 0 12 | 19 29 | 3 58 | 1 37 | 1 9 | 18 5 | 0 45 | 4 56 |
| F 31 | 18n24 | 25n54 | 4n48 | 21n13 | 0s58 | 4n57 | 0n41 | 18n23 | 1n 9 | 14n27 | 0n51 | 6s29 | 2s12 | 7s15 | 0s48 | 19s38 | 0n12 | 19n29 | 3s58 | 1s38 | 1s10 | 18s 8 | 0s46 | 4n56 |

Julian Day Number = 2331561.5, Delta T = 28.79 sec
Ecliptic obliquity = 23°29'04, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'18, Lahiri = 19°16'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## AUGUST 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 38 24 | 8♌35'02 | 19♊16 | 20♋ 3 | 20♍14 | 12♌26 | 23♌54 | 18°R43 | 13°R28 | 1°R38 | 3♋25 | 25°R49 | 27♓ 0 | 10♏ 0 | 16°R32 | S 1 |
| S 2 | 20 42 21 | 9°32'32 | 3♋23 | 21°26 | 21°22 | 13° 4 | 24° 6 | 18♓40 | 13♓26 | 1♒36 | 3°26 | 25♓42 | 26°57 | 10° 6 | 16♓30 | S 2 |
| M 3 | 20 46 17 | 10°30'04 | 17°21 | 22°55 | 22°30 | 13°43 | 24°19 | 18°37 | 13°24 | 1°34 | 3°28 | 25°35 | 26°54 | 10°13 | 16°28 | M 3 |
| T 4 | 20 50 14 | 11°27'37 | 1♌ 6 | 24°28 | 23°38 | 14°21 | 24°32 | 18°34 | 13°23 | 1°33 | 3°29 | 25°28 | 26°51 | 10°20 | 16°26 | T 4 |
| W 5 | 20 54 10 | 12°25'10 | 14°35 | 26° 5 | 24°46 | 14°59 | 24°45 | 18°31 | 13°21 | 1°31 | 3°30 | 25°22 | 26°48 | 10°27 | 16°23 | W 5 |
| T 6 | 20 58 7 | 13°22'45 | 27°46 | 27°46 | 25°53 | 15°37 | 24°58 | 18°28 | 13°19 | 1°30 | 3°31 | 25°17 | 26°44 | 10°33 | 16°21 | T 6 |
| F 7 | 21 2 3 | 14°20'21 | 10♍38 | 29°31 | 27° 1 | 16°15 | 25°11 | 18°24 | 13°17 | 1°28 | 3°32 | 25°14 | 26°41 | 10°40 | 16°19 | F 7 |
| S 8 | 21 6 0 | 15°17'58 | 23°12 | 1♌20 | 28° 8 | 16°54 | 25°24 | 18°21 | 13°15 | 1°26 | 3°33 | 25°D13 | 26°38 | 10°47 | 16°16 | S 8 |
| S 9 | 21 9 56 | 16°15'36 | 5♎29 | 3°11 | 29°15 | 17°32 | 25°37 | 18°17 | 13°13 | 1°25 | 3°35 | 25°13 | 26°35 | 10°53 | 16°14 | S 9 |
| M10 | 21 13 53 | 17°13'15 | 17°33 | 5° 5 | 0♎23 | 18°10 | 25°50 | 18°14 | 13°11 | 1°23 | 3°36 | 25°15 | 26°32 | 11° 0 | 16°12 | M10 |
| T 11 | 21 17 50 | 18°10'55 | 29°28 | 7° 0 | 1°30 | 18°48 | 26° 3 | 18°10 | 13° 8 | 1°22 | 3°37 | 25°16 | 26°28 | 11° 7 | 16° 9 | T 11 |
| W12 | 21 21 46 | 19° 8'36 | 11♏19 | 8°58 | 2°36 | 19°26 | 26°16 | 18° 6 | 13° 6 | 1°20 | 3°38 | 25°18 | 26°25 | 11°13 | 16° 7 | W12 |
| T 13 | 21 25 43 | 20° 6'19 | 23°11 | 10°57 | 3°43 | 20° 5 | 26°29 | 18° 3 | 13° 4 | 1°19 | 3°39 | 25°R18 | 26°22 | 11°20 | 16° 4 | T 13 |
| F 14 | 21 29 39 | 21° 4'02 | 5♐ 8 | 12°57 | 4°50 | 20°43 | 26°42 | 17°59 | 13° 2 | 1°17 | 3°40 | 25°17 | 26°19 | 11°27 | 16° 2 | F 14 |
| S 15 | 21 33 36 | 22° 1'47 | 17°16 | 14°57 | 5°56 | 21°21 | 26°55 | 17°55 | 13° 0 | 1°16 | 3°41 | 25°14 | 26°16 | 11°33 | 15°59 | S 15 |
| S 16 | 21 37 32 | 22°59'32 | 29°38 | 16°58 | 7° 2 | 21°59 | 27° 8 | 17°51 | 12°58 | 1°14 | 3°42 | 25°11 | 26°13 | 11°40 | 15°57 | S 16 |
| M17 | 21 41 29 | 23°57'19 | 12♑18 | 18°59 | 8° 9 | 22°37 | 27°21 | 17°47 | 12°55 | 1°13 | 3°43 | 25° 6 | 26° 9 | 11°47 | 15°54 | M17 |
| T 18 | 21 45 25 | 24°55'07 | 25°17 | 21° 0 | 9°14 | 23°15 | 27°34 | 17°43 | 12°53 | 1°11 | 3°44 | 25° 1 | 26° 6 | 11°53 | 15°52 | T 18 |
| W19 | 21 49 22 | 25°52'57 | 8♒37 | 23° 0 | 10°20 | 23°54 | 27°47 | 17°39 | 12°51 | 1°10 | 3°45 | 24°57 | 26° 3 | 12° 0 | 15°49 | W19 |
| T 20 | 21 53 19 | 26°50'48 | 22°16 | 25° 0 | 11°26 | 24°32 | 28° 0 | 17°35 | 12°49 | 1° 8 | 3°46 | 24°53 | 26° 0 | 12° 7 | 15°46 | T 20 |
| F 21 | 21 57 15 | 27°48'40 | 6♓11 | 26°59 | 12°31 | 25°10 | 28°13 | 17°31 | 12°46 | 1° 7 | 3°47 | 24°50 | 25°57 | 12°13 | 15°44 | F 21 |
| S 22 | 22 1 12 | 28°46'34 | 20°20 | 28°57 | 13°36 | 25°48 | 28°26 | 17°26 | 12°44 | 1° 6 | 3°48 | 24°D49 | 25°54 | 12°20 | 15°41 | S 22 |
| S 23 | 22 5 8 | 29°44'29 | 4♈37 | 0♍54 | 14°41 | 26°26 | 28°39 | 17°22 | 12°42 | 1° 4 | 3°49 | 24°50 | 25°50 | 12°27 | 15°38 | S 23 |
| M24 | 22 9 5 | 0♍42'26 | 18°59 | 2°50 | 15°46 | 27° 4 | 28°52 | 17°18 | 12°39 | 1° 3 | 3°50 | 24°51 | 25°47 | 12°34 | 15°36 | M24 |
| T 25 | 22 13 1 | 1°40'25 | 3♉21 | 4°45 | 16°51 | 27°43 | 29° 5 | 17°14 | 12°37 | 1° 1 | 3°51 | 24°52 | 25°44 | 12°40 | 15°33 | T 25 |
| W26 | 22 16 58 | 2°38'26 | 17°40 | 6°39 | 17°55 | 28°21 | 29°18 | 17° 9 | 12°35 | 1° 0 | 3°52 | 24°53 | 25°41 | 12°47 | 15°30 | W26 |
| T 27 | 22 20 54 | 3°36'29 | 1♊53 | 8°32 | 18°59 | 28°59 | 29°32 | 17° 5 | 12°32 | 0°59 | 3°53 | 24°R54 | 25°38 | 12°54 | 15°27 | T 27 |
| F 28 | 22 24 51 | 4°34'35 | 15°59 | 10°23 | 20° 3 | 29°37 | 29°45 | 17° 0 | 12°30 | 0°58 | 3°53 | 24°53 | 25°34 | 13° 0 | 15°25 | F 28 |
| S 29 | 22 28 48 | 5°32'42 | 29°54 | 12°13 | 21° 7 | 0♍15 | 29°58 | 16°56 | 12°28 | 0°56 | 3°54 | 24°52 | 25°31 | 13° 7 | 15°22 | S 29 |
| S 30 | 22 32 44 | 6°30'51 | 13♋39 | 14° 2 | 22°11 | 0°54 | 0♍11 | 16°51 | 12°25 | 0°55 | 3°55 | 24°50 | 25°28 | 13°14 | 15°19 | S 30 |
| M31 | 22 36 41 | 7♍29'02 | 27♋11 | 15♍50 | 23♎14 | 1♍32 | 0♍24 | 16♓47 | 12♓23 | 0♒54 | 3♋56 | 24♓48 | 25♓25 | 13♏20 | 15♓16 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 9 | 28n 8 | 5n 6 | 21n17 | 0s43 | 4n27 | 0n38 | 18n12 | 1n 9 | 14n23 | 0n51 | 6s30 | 2s13 | 7s15 | 0s48 | 19s38 | 0n12 | 19n29 | 3s58 | 1s40 | 1s12 | 18s10 | 0s47 | 4n56 |
| S 2 | 17 54 | 28 31 | 5 5 | 21 18 | 0 29 | 3 57 | 0 34 | 18 2 | 1 9 | 14 19 | 0 51 | 6 31 | 2 13 | 7 16 | 0 48 | 19 38 | 0 12 | 19 28 | 3 58 | 1 43 | 1 13 | 18 13 | 0 48 | 4 56 |
| M 3 | 17 38 | 27 5 | 4 46 | 21 18 | 0 15 | 3 27 | 0 30 | 17 51 | 1 9 | 14 15 | 0 51 | 6 33 | 2 13 | 7 17 | 0 48 | 19 39 | 0 12 | 19 28 | 3 58 | 1 45 | 1 14 | 18 16 | 0 48 | 4 56 |
| T 4 | 17 23 | 24 2 | 4 11 | 21 15 | 0 1 | 2 56 | 0 27 | 17 40 | 1 9 | 14 10 | 0 51 | 6 34 | 2 13 | 7 17 | 0 48 | 19 39 | 0 12 | 19 28 | 3 58 | 1 48 | 1 15 | 18 19 | 0 49 | 4 56 |
| W 5 | 17 7 | 19 42 | 3 22 | 21 9 | 0n11 | 2 26 | 0 23 | 17 28 | 1 9 | 14 6 | 0 51 | 6 36 | 2 13 | 7 18 | 0 48 | 19 40 | 0 12 | 19 28 | 3 58 | 1 51 | 1 17 | 18 21 | 0 50 | 4 56 |
| T 6 | 16 50 | 14 31 | 2 23 | 21 2 | 0 23 | 1 55 | 0 19 | 17 17 | 1 9 | 14 2 | 0 51 | 6 37 | 2 14 | 7 19 | 0 48 | 19 40 | 0 12 | 19 28 | 3 58 | 1 53 | 1 18 | 18 24 | 0 50 | 4 56 |
| F 7 | 16 34 | 8 48 | 1 18 | 20 51 | 0 35 | 1 25 | 0 15 | 17 6 | 1 9 | 13 57 | 0 51 | 6 39 | 2 14 | 7 20 | 0 48 | 19 40 | 0 12 | 19 28 | 3 58 | 1 54 | 1 19 | 18 27 | 0 51 | 4 57 |
| S 8 | 16 17 | 2 52 | 0 11 | 20 38 | 0 45 | 0 54 | 0 11 | 16 54 | 1 9 | 13 53 | 0 51 | 6 40 | 2 14 | 7 21 | 0 48 | 19 41 | 0 12 | 19 28 | 3 58 | 1 54 | 1 20 | 18 29 | 0 52 | 4 57 |
| S 9 | 16 0 | 3s 2 | 0s56 | 20 23 | 0 55 | 0 24 | 0 6 | 16 42 | 1 9 | 13 49 | 0 51 | 6 42 | 2 14 | 7 21 | 0 48 | 19 41 | 0 12 | 19 28 | 3 58 | 1 54 | 1 22 | 18 32 | 0 53 | 4 57 |
| M10 | 15 42 | 8 44 | 1 59 | 20 4 | 1 4 | 0s 7 | 0 2 | 16 30 | 1 9 | 13 44 | 0 51 | 6 43 | 2 14 | 7 22 | 0 49 | 19 41 | 0 12 | 19 28 | 3 58 | 1 54 | 1 23 | 18 35 | 0 54 | 4 57 |
| T 11 | 15 25 | 14 3 | 2 56 | 19 43 | 1 12 | 0 38 | 0s 2 | 16 19 | 1 9 | 13 40 | 0 52 | 6 45 | 2 14 | 7 23 | 0 49 | 19 42 | 0 12 | 19 28 | 3 58 | 1 53 | 1 24 | 18 38 | 0 55 | 4 57 |
| W12 | 15 7 | 18 49 | 3 45 | 19 19 | 1 19 | 1 8 | 0 6 | 16 7 | 1 9 | 13 36 | 0 52 | 6 47 | 2 15 | 7 24 | 0 49 | 19 42 | 0 12 | 19 28 | 3 58 | 1 52 | 1 26 | 18 40 | 0 56 | 4 57 |
| T 13 | 14 49 | 22 52 | 4 25 | 18 53 | 1 26 | 1 39 | 0 11 | 15 55 | 1 9 | 13 31 | 0 52 | 6 48 | 2 15 | 7 25 | 0 49 | 19 42 | 0 12 | 19 28 | 3 58 | 1 52 | 1 27 | 18 43 | 0 56 | 4 57 |
| F 14 | 14 30 | 26 0 | 4 53 | 18 25 | 1 31 | 2 9 | 0 15 | 15 42 | 1 9 | 13 27 | 0 52 | 6 50 | 2 15 | 7 26 | 0 49 | 19 43 | 0 12 | 19 28 | 3 58 | 1 53 | 1 28 | 18 46 | 0 57 | 4 57 |
| S 15 | 14 12 | 28 0 | 5 9 | 17 54 | 1 36 | 2 40 | 0 20 | 15 30 | 1 9 | 13 22 | 0 52 | 6 51 | 2 15 | 7 26 | 0 49 | 19 43 | 0 12 | 19 28 | 3 58 | 1 54 | 1 29 | 18 48 | 0 58 | 4 57 |
| S 16 | 13 53 | 28 40 | 5 11 | 17 21 | 1 39 | 3 11 | 0 25 | 15 18 | 1 9 | 13 18 | 0 52 | 6 53 | 2 15 | 7 27 | 0 49 | 19 43 | 0 12 | 19 28 | 3 58 | 1 55 | 1 31 | 18 51 | 0 59 | 4 57 |
| M17 | 13 34 | 27 52 | 4 58 | 16 47 | 1 42 | 3 41 | 0 29 | 15 5 | 1 9 | 13 14 | 0 52 | 6 55 | 2 15 | 7 28 | 0 49 | 19 44 | 0 12 | 19 28 | 3 58 | 1 57 | 1 32 | 18 54 | 1 0 | 4 57 |
| T 18 | 13 14 | 25 32 | 4 30 | 16 10 | 1 44 | 4 11 | 0 34 | 14 53 | 1 9 | 13 9 | 0 52 | 6 57 | 2 16 | 7 29 | 0 49 | 19 44 | 0 12 | 19 28 | 3 58 | 1 59 | 1 33 | 18 56 | 1 1 | 4 57 |
| W19 | 12 55 | 21 47 | 3 46 | 15 32 | 1 46 | 4 42 | 0 39 | 14 40 | 1 9 | 13 5 | 0 52 | 6 58 | 2 16 | 7 30 | 0 49 | 19 44 | 0 12 | 19 28 | 3 58 | 2 1 | 1 34 | 18 59 | 1 2 | 4 57 |
| T 20 | 12 35 | 16 47 | 2 49 | 14 53 | 1 46 | 5 12 | 0 44 | 14 27 | 1 9 | 13 0 | 0 52 | 7 0 | 2 16 | 7 31 | 0 49 | 19 45 | 0 12 | 19 28 | 3 58 | 2 2 | 1 36 | 19 2 | 1 3 | 4 57 |
| F 21 | 12 15 | 10 49 | 1 41 | 14 12 | 1 46 | 5 42 | 0 49 | 14 14 | 1 9 | 12 56 | 0 52 | 7 2 | 2 16 | 7 32 | 0 49 | 19 45 | 0 12 | 19 28 | 3 58 | 2 3 | 1 37 | 19 5 | 1 4 | 4 57 |
| S 22 | 11 55 | 4 13 | 0 25 | 13 30 | 1 45 | 6 12 | 0 54 | 14 1 | 1 9 | 12 51 | 0 52 | 7 4 | 2 16 | 7 32 | 0 49 | 19 45 | 0 12 | 19 28 | 3 58 | 2 4 | 1 38 | 19 7 | 1 5 | 4 57 |
| S 23 | 11 35 | 2n40 | 0n54 | 12 48 | 1 44 | 6 42 | 0 59 | 13 48 | 1 9 | 12 47 | 0 52 | 7 5 | 2 16 | 7 33 | 0 49 | 19 46 | 0 12 | 19 28 | 3 58 | 2 4 | 1 39 | 19 10 | 1 6 | 4 57 |
| M24 | 11 15 | 9 26 | 2 9 | 12 4 | 1 42 | 7 12 | 1 4 | 13 35 | 1 9 | 12 42 | 0 52 | 7 7 | 2 16 | 7 34 | 0 49 | 19 46 | 0 12 | 19 28 | 3 58 | 2 3 | 1 41 | 19 12 | 1 7 | 4 57 |
| T 25 | 10 54 | 15 44 | 3 16 | 11 20 | 1 40 | 7 41 | 1 9 | 13 22 | 1 9 | 12 38 | 0 52 | 7 9 | 2 17 | 7 35 | 0 49 | 19 46 | 0 12 | 19 28 | 3 58 | 2 3 | 1 42 | 19 15 | 1 8 | 4 57 |
| W26 | 10 33 | 21 9 | 4 11 | 10 35 | 1 37 | 8 11 | 1 14 | 13 8 | 1 8 | 12 33 | 0 52 | 7 11 | 2 17 | 7 36 | 0 49 | 19 47 | 0 12 | 19 27 | 3 58 | 2 2 | 1 43 | 19 18 | 1 9 | 4 57 |
| T 27 | 10 12 | 25 19 | 4 50 | 9 50 | 1 33 | 8 40 | 1 19 | 12 55 | 1 8 | 12 29 | 0 52 | 7 13 | 2 17 | 7 37 | 0 49 | 19 47 | 0 12 | 19 27 | 3 58 | 2 2 | 1 44 | 19 20 | 1 10 | 4 57 |
| F 28 | 9 51 | 27 54 | 5 11 | 9 4 | 1 29 | 9 9 | 1 24 | 12 42 | 1 8 | 12 24 | 0 52 | 7 15 | 2 17 | 7 38 | 0 49 | 19 47 | 0 12 | 19 27 | 3 58 | 2 2 | 1 46 | 19 23 | 1 11 | 4 57 |
| S 29 | 9 30 | 28 43 | 5 14 | 8 18 | 1 25 | 9 38 | 1 29 | 12 28 | 1 8 | 12 20 | 0 53 | 7 16 | 2 17 | 7 39 | 0 49 | 19 48 | 0 12 | 19 27 | 3 58 | 2 3 | 1 47 | 19 26 | 1 12 | 4 57 |
| S 30 | 9 8 | 27 44 | 4 58 | 7 32 | 1 20 | 10 7 | 1 35 | 12 14 | 1 8 | 12 15 | 0 53 | 7 18 | 2 17 | 7 40 | 0 49 | 19 48 | 0 12 | 19 27 | 3 58 | 2 3 | 1 48 | 19 28 | 1 13 | 4 57 |
| M31 | 8n47 | 25n 7 | 4n26 | 6n45 | 1n15 | 10s36 | 1s40 | 12n 1 | 1n 8 | 12n11 | 0n53 | 7s20 | 2s17 | 7s41 | 0s49 | 19s48 | 0n12 | 19n27 | 3s58 | 2s 4 | 1s50 | 19s31 | 1s15 | 4n57 |

Julian Day Number = 2331592.5, Delta T = 28.74 sec
Ecliptic obliquity = 23°29'04, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'22, Lahiri = 19°16'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## SEPTEMBER 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 40 37 | 8♍27'15 | 10♌30 | 17♍37 | 24♎17 | 2♍10 | 0♍37 | 16°R42 | 12°R21 | 0°R53 | 3♋57 | 24°R45 | 25♓22 | 13♏27 | 15°R13 | T 1 |
| W 2 | 22 44 34 | 9°25'29 | 23°35 | 19°22 | 25°20 | 2°48 | 0°50 | 16♓38 | 12♓18 | 0♒51 | 3°57 | 24♓43 | 25°19 | 13°34 | 15♓11 | W 2 |
| T 3 | 22 48 30 | 10°23'46 | 6♍25 | 21° 7 | 26°22 | 3°27 | 1° 3 | 16°33 | 12°16 | 0°50 | 3°58 | 24°42 | 25°15 | 13°40 | 15° 8 | T 3 |
| F 4 | 22 52 27 | 11°22'04 | 19° 2 | 22°50 | 27°25 | 4° 5 | 1°16 | 16°29 | 12°13 | 0°49 | 3°59 | 24°D41 | 25°12 | 13°47 | 15° 5 | F 4 |
| S 5 | 22 56 23 | 12°20'24 | 1♎24 | 24°32 | 28°27 | 4°43 | 1°29 | 16°24 | 12°11 | 0°48 | 3°59 | 24°41 | 25° 9 | 13°54 | 15° 2 | S 5 |
| S 6 | 23 0 20 | 13°18'46 | 13°34 | 26°12 | 29°28 | 5°21 | 1°41 | 16°19 | 12° 9 | 0°47 | 4° 0 | 24°42 | 25° 6 | 14° 0 | 14°59 | S 6 |
| M 7 | 23 4 16 | 14°17'09 | 25°35 | 27°52 | 0♏30 | 5°59 | 1°54 | 16°15 | 12° 6 | 0°46 | 4° 1 | 24°43 | 25° 3 | 14° 7 | 14°56 | M 7 |
| T 8 | 23 8 13 | 15°15'34 | 7♏29 | 29°31 | 1°31 | 6°38 | 2° 7 | 16°10 | 12° 4 | 0°45 | 4° 1 | 24°44 | 25° 0 | 14°14 | 14°53 | T 8 |
| W 9 | 23 12 10 | 16°14'01 | 19°19 | 1♎ 8 | 2°32 | 7°16 | 2°20 | 16° 5 | 12° 1 | 0°44 | 4° 2 | 24°45 | 24°56 | 14°21 | 14°51 | W 9 |
| T 10 | 23 16 6 | 17°12'30 | 1♐10 | 2°45 | 3°33 | 7°54 | 2°33 | 16° 1 | 11°59 | 0°43 | 4° 2 | 24°45 | 24°53 | 14°27 | 14°48 | T 10 |
| F 11 | 23 20 3 | 18°11'00 | 13° 6 | 4°20 | 4°33 | 8°32 | 2°46 | 15°56 | 11°57 | 0°42 | 4° 3 | 24°R46 | 24°50 | 14°34 | 14°45 | F 11 |
| S 12 | 23 23 59 | 19° 9'32 | 25°12 | 5°54 | 5°33 | 9°11 | 2°59 | 15°52 | 11°54 | 0°41 | 4° 4 | 24°46 | 24°47 | 14°41 | 14°42 | S 12 |
| S 13 | 23 27 56 | 20° 8'06 | 7♑33 | 7°27 | 6°32 | 9°49 | 3°11 | 15°47 | 11°52 | 0°40 | 4° 4 | 24°45 | 24°44 | 14°47 | 14°39 | S 13 |
| M14 | 23 31 52 | 21° 6'41 | 20°12 | 8°59 | 7°31 | 10°27 | 3°24 | 15°42 | 11°49 | 0°39 | 4° 5 | 24°45 | 24°40 | 14°54 | 14°36 | M14 |
| T 15 | 23 35 49 | 22° 5'18 | 3♒13 | 10°31 | 8°30 | 11° 6 | 3°37 | 15°38 | 11°47 | 0°38 | 4° 5 | 24°45 | 24°37 | 15° 1 | 14°34 | T 15 |
| W16 | 23 39 45 | 23° 3'57 | 16°38 | 12° 1 | 9°28 | 11°44 | 3°50 | 15°33 | 11°45 | 0°37 | 4° 5 | 24°45 | 24°34 | 15° 7 | 14°31 | W16 |
| T 17 | 23 43 42 | 24° 2'37 | 0♓28 | 13°30 | 10°26 | 12°22 | 4° 2 | 15°29 | 11°42 | 0°36 | 4° 6 | 24°44 | 24°31 | 15°14 | 14°28 | T 17 |
| F 18 | 23 47 39 | 25° 1'19 | 14°39 | 14°58 | 11°24 | 13° 0 | 4°15 | 15°24 | 11°40 | 0°36 | 4° 6 | 24°D44 | 24°28 | 15°21 | 14°25 | F 18 |
| S 19 | 23 51 35 | 26° 0'03 | 29°10 | 16°25 | 12°21 | 13°39 | 4°27 | 15°20 | 11°38 | 0°35 | 4° 7 | 24°R44 | 24°25 | 15°27 | 14°22 | S 19 |
| S 20 | 23 55 32 | 26°58'49 | 13♈53 | 17°51 | 13°18 | 14°17 | 4°40 | 15°15 | 11°35 | 0°34 | 4° 7 | 24°44 | 24°21 | 15°34 | 14°20 | S 20 |
| M21 | 23 59 28 | 27°57'37 | 28°42 | 19°15 | 14°14 | 14°55 | 4°52 | 15°11 | 11°33 | 0°33 | 4° 7 | 24°44 | 24°18 | 15°41 | 14°17 | M21 |
| T 22 | 0 3 25 | 28°56'28 | 13♉30 | 20°39 | 15° 9 | 15°34 | 5° 5 | 15° 6 | 11°31 | 0°33 | 4° 8 | 24°44 | 24°15 | 15°48 | 14°14 | T 22 |
| W23 | 0 7 21 | 29°55'21 | 28° 9 | 22° 2 | 16° 5 | 16°12 | 5°17 | 15° 2 | 11°29 | 0°32 | 4° 8 | 24°43 | 24°12 | 15°54 | 14°11 | W23 |
| T 24 | 0 11 18 | 0♎54'16 | 12♊35 | 23°23 | 16°59 | 16°50 | 5°30 | 14°57 | 11°26 | 0°31 | 4° 8 | 24°43 | 24° 9 | 16° 1 | 14° 9 | T 24 |
| F 25 | 0 15 14 | 1°53'13 | 26°44 | 24°43 | 17°53 | 17°29 | 5°42 | 14°53 | 11°24 | 0°31 | 4° 8 | 24°D42 | 24° 5 | 16° 8 | 14° 6 | F 25 |
| S 26 | 0 19 11 | 2°52'13 | 10♋34 | 26° 2 | 18°47 | 18° 7 | 5°54 | 14°49 | 11°22 | 0°30 | 4° 9 | 24°42 | 24° 2 | 16°14 | 14° 3 | S 26 |
| S 27 | 0 23 8 | 3°51'15 | 24° 6 | 27°20 | 19°40 | 18°45 | 6° 7 | 14°45 | 11°20 | 0°30 | 4° 9 | 24°43 | 23°59 | 16°21 | 14° 1 | S 27 |
| M28 | 0 27 4 | 4°50'19 | 7♌20 | 28°37 | 20°32 | 19°24 | 6°19 | 14°40 | 11°18 | 0°29 | 4° 9 | 24°44 | 23°56 | 16°28 | 13°58 | M28 |
| T 29 | 0 31 1 | 5°49'26 | 20°18 | 29°51 | 21°24 | 20° 2 | 6°31 | 14°36 | 11°16 | 0°29 | 4° 9 | 24°45 | 23°53 | 16°34 | 13°56 | T 29 |
| W30 | 0 34 57 | 6♎48'35 | 3♍ 1 | 1♏ 5 | 22♏15 | 20♍41 | 6♍43 | 14♓32 | 11♓14 | 0♒28 | 4♋ 9 | 24♓46 | 23♓50 | 16♏41 | 13♓53 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n25 | 21n10 | 3n40 | 5n59 | 1n10 | 11s 4 | 1s45 | 11n47 | 1n 8 | 12n 6 | 0n53 | 7s22 | 2s17 | 7s42 | 0s49 | 19s48 | 0n12 | 19n27 | 3s58 | 2s 5 | 1s51 | 19s34 | 1s16 | 4n57 |
| W 2 | 8 3 | 16 15 | 2 44 | 5 12 | 1 4 | 11 32 | 1 51 | 11 33 | 1 8 | 12 1 | 0 53 | 7 24 | 2 17 | 7 43 | 0 49 | 19 49 | 0 12 | 19 27 | 3 58 | 2 6 | 1 52 | 19 36 | 1 17 | 4 57 |
| T 3 | 7 41 | 10 43 | 1 39 | 4 26 | 0 59 | 12 0 | 1 56 | 11 19 | 1 8 | 11 57 | 0 53 | 7 26 | 2 18 | 7 43 | 0 49 | 19 49 | 0 12 | 19 27 | 3 59 | 2 7 | 1 53 | 19 39 | 1 18 | 4 57 |
| F 4 | 7 19 | 4 50 | 0 31 | 3 39 | 0 52 | 12 28 | 2 2 | 11 5 | 1 8 | 11 52 | 0 53 | 7 28 | 2 18 | 7 44 | 0 49 | 19 49 | 0 12 | 19 27 | 3 59 | 2 7 | 1 55 | 19 41 | 1 19 | 4 57 |
| S 5 | 6 57 | 1s 8 | 0s37 | 2 53 | 0 46 | 12 55 | 2 7 | 10 51 | 1 8 | 11 48 | 0 53 | 7 29 | 2 18 | 7 45 | 0 49 | 19 50 | 0 12 | 19 27 | 3 59 | 2 7 | 1 56 | 19 44 | 1 20 | 4 57 |
| S 6 | 6 34 | 6 57 | 1 43 | 2 7 | 0 40 | 13 22 | 2 13 | 10 37 | 1 8 | 11 43 | 0 53 | 7 31 | 2 18 | 7 46 | 0 49 | 19 50 | 0 12 | 19 27 | 3 59 | 2 7 | 1 57 | 19 47 | 1 21 | 4 57 |
| M 7 | 6 12 | 12 26 | 2 43 | 1 21 | 0 33 | 13 49 | 2 18 | 10 23 | 1 8 | 11 39 | 0 53 | 7 33 | 2 18 | 7 47 | 0 49 | 19 50 | 0 12 | 19 27 | 3 59 | 2 6 | 1 58 | 19 49 | 1 23 | 4 57 |
| T 8 | 5 49 | 17 25 | 3 35 | 0 36 | 0 26 | 14 16 | 2 24 | 10 8 | 1 8 | 11 34 | 0 53 | 7 35 | 2 18 | 7 48 | 0 49 | 19 50 | 0 12 | 19 27 | 3 59 | 2 6 | 2 0 | 19 52 | 1 24 | 4 57 |
| W 9 | 5 26 | 21 44 | 4 19 | 0s10 | 0 19 | 14 42 | 2 29 | 9 54 | 1 7 | 11 30 | 0 53 | 7 37 | 2 18 | 7 49 | 0 49 | 19 51 | 0 12 | 19 27 | 3 59 | 2 5 | 2 1 | 19 54 | 1 25 | 4 57 |
| T 10 | 5 4 | 25 10 | 4 51 | 0 55 | 0 12 | 15 8 | 2 35 | 9 40 | 1 7 | 11 25 | 0 53 | 7 39 | 2 18 | 7 50 | 0 49 | 19 51 | 0 12 | 19 27 | 3 59 | 2 5 | 2 2 | 19 57 | 1 26 | 4 57 |
| F 11 | 4 41 | 27 33 | 5 11 | 1 39 | 0 5 | 15 34 | 2 40 | 9 25 | 1 7 | 11 20 | 0 54 | 7 41 | 2 18 | 7 51 | 0 49 | 19 51 | 0 12 | 19 27 | 3 59 | 2 5 | 2 3 | 19 59 | 1 27 | 4 57 |
| S 12 | 4 18 | 28 41 | 5 17 | 2 23 | 0s 3 | 16 0 | 2 46 | 9 11 | 1 7 | 11 16 | 0 54 | 7 42 | 2 18 | 7 52 | 0 49 | 19 51 | 0 12 | 19 27 | 3 59 | 2 5 | 2 5 | 20 2 | 1 28 | 4 57 |
| S 13 | 3 55 | 28 25 | 5 9 | 3 7 | 0 10 | 16 25 | 2 51 | 8 56 | 1 7 | 11 11 | 0 54 | 7 44 | 2 18 | 7 53 | 0 49 | 19 51 | 0 12 | 19 27 | 3 59 | 2 5 | 2 6 | 20 4 | 1 29 | 4 57 |
| M14 | 3 32 | 26 41 | 4 47 | 3 51 | 0 18 | 16 50 | 2 57 | 8 42 | 1 7 | 11 7 | 0 54 | 7 46 | 2 18 | 7 53 | 0 49 | 19 52 | 0 12 | 19 27 | 3 59 | 2 5 | 2 7 | 20 7 | 1 31 | 4 57 |
| T 15 | 3 9 | 23 30 | 4 9 | 4 33 | 0 25 | 17 14 | 3 2 | 8 27 | 1 7 | 11 2 | 0 54 | 7 48 | 2 18 | 7 54 | 0 49 | 19 52 | 0 12 | 19 26 | 3 59 | 2 5 | 2 8 | 20 10 | 1 32 | 4 56 |
| W16 | 2 45 | 19 0 | 3 16 | 5 16 | 0 33 | 17 38 | 3 8 | 8 12 | 1 7 | 10 58 | 0 54 | 7 50 | 2 18 | 7 55 | 0 49 | 19 52 | 0 12 | 19 26 | 3 59 | 2 6 | 2 10 | 20 12 | 1 33 | 4 56 |
| T 17 | 2 22 | 13 22 | 2 11 | 5 57 | 0 40 | 18 2 | 3 13 | 7 58 | 1 7 | 10 53 | 0 54 | 7 51 | 2 18 | 7 56 | 0 49 | 19 52 | 0 12 | 19 26 | 3 59 | 2 6 | 2 11 | 20 15 | 1 34 | 4 56 |
| F 18 | 1 59 | 6 55 | 0 56 | 6 39 | 0 48 | 18 25 | 3 18 | 7 43 | 1 7 | 10 49 | 0 54 | 7 53 | 2 18 | 7 57 | 0 49 | 19 52 | 0 12 | 19 26 | 3 59 | 2 6 | 2 12 | 20 17 | 1 35 | 4 56 |
| S 19 | 1 36 | 0n 3 | 0n25 | 7 19 | 0 56 | 18 48 | 3 24 | 7 28 | 1 6 | 10 44 | 0 54 | 7 55 | 2 18 | 7 58 | 0 49 | 19 53 | 0 12 | 19 26 | 3 59 | 2 6 | 2 13 | 20 20 | 1 37 | 4 56 |
| S 20 | 1 12 | 7 5 | 1 44 | 7 59 | 1 3 | 19 11 | 3 29 | 7 13 | 1 6 | 10 40 | 0 54 | 7 57 | 2 18 | 7 59 | 0 49 | 19 53 | 0 12 | 19 26 | 3 59 | 2 6 | 2 15 | 20 22 | 1 38 | 4 56 |
| M21 | 0 49 | 13 48 | 2 58 | 8 39 | 1 11 | 19 33 | 3 34 | 6 58 | 1 6 | 10 35 | 0 55 | 7 58 | 2 18 | 8 0 | 0 49 | 19 53 | 0 12 | 19 26 | 3 59 | 2 6 | 2 16 | 20 25 | 1 39 | 4 56 |
| T 22 | 0 25 | 19 43 | 3 59 | 9 17 | 1 18 | 19 55 | 3 40 | 6 43 | 1 6 | 10 31 | 0 55 | 8 0 | 2 18 | 8 0 | 0 49 | 19 53 | 0 11 | 19 26 | 3 59 | 2 6 | 2 17 | 20 27 | 1 40 | 4 56 |
| W23 | 0 2 | 24 23 | 4 44 | 9 55 | 1 26 | 20 16 | 3 45 | 6 28 | 1 6 | 10 26 | 0 55 | 8 2 | 2 18 | 8 1 | 0 49 | 19 53 | 0 11 | 19 26 | 3 59 | 2 6 | 2 19 | 20 30 | 1 41 | 4 55 |
| T 24 | 0s22 | 27 28 | 5 10 | 10 33 | 1 33 | 20 37 | 3 50 | 6 13 | 1 6 | 10 22 | 0 55 | 8 4 | 2 18 | 8 2 | 0 49 | 19 53 | 0 11 | 19 26 | 3 59 | 2 6 | 2 20 | 20 32 | 1 42 | 4 55 |
| F 25 | 0 45 | 28 43 | 5 17 | 11 9 | 1 41 | 20 57 | 3 55 | 5 58 | 1 6 | 10 17 | 0 55 | 8 5 | 2 18 | 8 3 | 0 49 | 19 54 | 0 11 | 19 26 | 3 59 | 2 6 | 2 21 | 20 35 | 1 44 | 4 55 |
| S 26 | 1 9 | 28 8 | 5 5 | 11 45 | 1 48 | 21 18 | 4 0 | 5 43 | 1 5 | 10 13 | 0 55 | 8 7 | 2 18 | 8 4 | 0 49 | 19 54 | 0 11 | 19 26 | 3 59 | 2 6 | 2 22 | 20 37 | 1 45 | 4 55 |
| S 27 | 1 32 | 25 52 | 4 36 | 12 20 | 1 55 | 21 37 | 4 6 | 5 28 | 1 5 | 10 9 | 0 55 | 8 8 | 2 18 | 8 5 | 0 49 | 19 54 | 0 11 | 19 26 | 3 59 | 2 6 | 2 24 | 20 40 | 1 46 | 4 55 |
| M28 | 1 56 | 22 14 | 3 54 | 12 54 | 2 2 | 21 56 | 4 11 | 5 12 | 1 5 | 10 4 | 0 55 | 8 10 | 2 18 | 8 5 | 0 49 | 19 54 | 0 11 | 19 26 | 3 59 | 2 6 | 2 25 | 20 42 | 1 47 | 4 55 |
| T 29 | 2 19 | 17 35 | 3 0 | 13 27 | 2 9 | 22 15 | 4 15 | 4 57 | 1 5 | 10 0 | 0 56 | 8 12 | 2 18 | 8 6 | 0 49 | 19 54 | 0 11 | 19 26 | 3 59 | 2 6 | 2 26 | 20 45 | 1 48 | 4 54 |
| W30 | 2s42 | 12n15 | 1n58 | 13s59 | 2s15 | 22s33 | 4s20 | 4n42 | 1n 5 | 9n55 | 0n56 | 8s13 | 2s18 | 8s 7 | 0s48 | 19s54 | 0n11 | 19n26 | 4s 0 | 2s 5 | 2s27 | 20s47 | 1s49 | 4n54 |

Julian Day Number = 2331623.5, Delta T = 28.68 sec
Ecliptic obliquity = 23°29'05, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'26, Lahiri = 19°16'27Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## OCTOBER 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 38 54 | 7♎47'46 | 15♍31 | 2♏16 | 23♏ 5 | 21♍19 | 6♍55 | 14°R28 | 11°R11 | 0°R28 | 4♋ 9 | 24♓46 | 23♓46 | 16♏48 | 13°R50 | T 1 |
| F 2 | 0 42 50 | 8°46'59 | 27°50 | 3°26 | 23°55 | 21°57 | 7° 7 | 14♓24 | 11♓ 9 | 0♒28 | 4° 9 | 24°R47 | 23°43 | 16°54 | 13♓48 | F 2 |
| S 3 | 0 46 47 | 9°46'14 | 10♎ 0 | 4°35 | 24°44 | 22°36 | 7°19 | 14°20 | 11° 7 | 0°27 | 4° 9 | 24°46 | 23°40 | 17° 1 | 13°45 | S 3 |
| S 4 | 0 50 43 | 10°45'31 | 22° 2 | 5°41 | 25°32 | 23°14 | 7°31 | 14°16 | 11° 5 | 0°27 | 4°R 9 | 24°45 | 23°37 | 17° 8 | 13°43 | S 4 |
| M 5 | 0 54 40 | 11°44'51 | 3♏58 | 6°45 | 26°20 | 23°53 | 7°43 | 14°12 | 11° 3 | 0°27 | 4° 9 | 24°42 | 23°34 | 17°15 | 13°40 | M 5 |
| T 6 | 0 58 37 | 12°44'12 | 15°49 | 7°46 | 27° 7 | 24°31 | 7°55 | 14° 8 | 11° 1 | 0°27 | 4° 9 | 24°40 | 23°31 | 17°21 | 13°38 | T 6 |
| W 7 | 1 2 33 | 13°43'35 | 27°39 | 8°45 | 27°52 | 25°10 | 8° 7 | 14° 5 | 11° 0 | 0°26 | 4° 9 | 24°36 | 23°27 | 17°28 | 13°36 | W 7 |
| T 8 | 1 6 30 | 14°43'01 | 9♐30 | 9°41 | 28°37 | 25°48 | 8°18 | 14° 1 | 10°58 | 0°26 | 4° 9 | 24°33 | 23°24 | 17°35 | 13°33 | T 8 |
| F 9 | 1 10 26 | 15°42'28 | 21°25 | 10°34 | 29°21 | 26°26 | 8°30 | 13°58 | 10°56 | 0°26 | 4° 9 | 24°31 | 23°21 | 17°41 | 13°31 | F 9 |
| S 10 | 1 14 23 | 16°41'57 | 3♑29 | 11°24 | 0♐ 4 | 27° 5 | 8°42 | 13°54 | 10°54 | 0°26 | 4° 9 | 24°29 | 23°18 | 17°48 | 13°29 | S 10 |
| S 11 | 1 18 19 | 17°41'27 | 15°46 | 12°10 | 0°46 | 27°43 | 8°53 | 13°51 | 10°52 | 0°26 | 4° 9 | 24°D28 | 23°15 | 17°55 | 13°27 | S 11 |
| M12 | 1 22 16 | 18°41'00 | 28°19 | 12°51 | 1°27 | 28°22 | 9° 5 | 13°47 | 10°50 | 0°D26 | 4° 9 | 24°29 | 23°11 | 18° 1 | 13°24 | M12 |
| T 13 | 1 26 12 | 19°40'34 | 11♒15 | 13°28 | 2° 7 | 29° 0 | 9°16 | 13°44 | 10°49 | 0°26 | 4° 9 | 24°30 | 23° 8 | 18° 8 | 13°22 | T 13 |
| W14 | 1 30 9 | 20°40'10 | 24°35 | 14° 1 | 2°46 | 29°39 | 9°27 | 13°41 | 10°47 | 0°26 | 4° 8 | 24°31 | 23° 5 | 18°15 | 13°20 | W14 |
| T 15 | 1 34 6 | 21°39'47 | 8♓22 | 14°27 | 3°23 | 0♎17 | 9°38 | 13°38 | 10°45 | 0°26 | 4° 8 | 24°33 | 23° 2 | 18°22 | 13°18 | T 15 |
| F 16 | 1 38 2 | 22°39'26 | 22°37 | 14°48 | 3°59 | 0°56 | 9°50 | 13°34 | 10°44 | 0°26 | 4° 8 | 24°R34 | 22°59 | 18°28 | 13°16 | F 16 |
| S 17 | 1 41 59 | 23°39'07 | 7♈16 | 15° 2 | 4°34 | 1°35 | 10° 1 | 13°31 | 10°42 | 0°26 | 4° 8 | 24°33 | 22°56 | 18°35 | 13°14 | S 17 |
| S 18 | 1 45 55 | 24°38'51 | 22°15 | 15°R 9 | 5° 8 | 2°13 | 10°12 | 13°29 | 10°41 | 0°26 | 4° 7 | 24°31 | 22°52 | 18°42 | 13°12 | S 18 |
| M19 | 1 49 52 | 25°38'36 | 7♉25 | 15° 8 | 5°40 | 2°52 | 10°23 | 13°26 | 10°39 | 0°27 | 4° 7 | 24°28 | 22°49 | 18°48 | 13°10 | M19 |
| T 20 | 1 53 48 | 26°38'23 | 22°36 | 14°59 | 6°11 | 3°30 | 10°33 | 13°23 | 10°38 | 0°27 | 4° 7 | 24°23 | 22°46 | 18°55 | 13° 8 | T 20 |
| W21 | 1 57 45 | 27°38'12 | 7♊38 | 14°42 | 6°40 | 4° 9 | 10°44 | 13°20 | 10°36 | 0°27 | 4° 6 | 24°18 | 22°43 | 19° 2 | 13° 7 | W21 |
| T 22 | 2 1 41 | 28°38'04 | 22°24 | 14°15 | 7° 7 | 4°47 | 10°55 | 13°18 | 10°35 | 0°27 | 4° 6 | 24°14 | 22°40 | 19° 8 | 13° 5 | T 22 |
| F 23 | 2 5 38 | 29°37'58 | 6♋46 | 13°39 | 7°33 | 5°26 | 11° 5 | 13°15 | 10°34 | 0°28 | 4° 5 | 24°10 | 22°37 | 19°15 | 13° 3 | F 23 |
| S 24 | 2 9 35 | 0♏37'54 | 20°42 | 12°54 | 7°58 | 6° 5 | 11°16 | 13°13 | 10°32 | 0°28 | 4° 5 | 24° 8 | 22°33 | 19°22 | 13° 1 | S 24 |
| S 25 | 2 13 31 | 1°37'52 | 4♌13 | 12° 1 | 8°20 | 6°43 | 11°26 | 13°11 | 10°31 | 0°29 | 4° 5 | 24°D 8 | 22°30 | 19°29 | 13° 0 | S 25 |
| M26 | 2 17 28 | 2°37'52 | 17°20 | 10°59 | 8°41 | 7°22 | 11°37 | 13° 8 | 10°30 | 0°29 | 4° 4 | 24° 9 | 22°27 | 19°35 | 12°58 | M26 |
| T 27 | 2 21 24 | 3°37'55 | 0♍ 5 | 9°50 | 9° 0 | 8° 1 | 11°47 | 13° 6 | 10°29 | 0°29 | 4° 4 | 24°10 | 22°24 | 19°42 | 12°57 | T 27 |
| W28 | 2 25 21 | 4°37'59 | 12°34 | 8°36 | 9°17 | 8°39 | 11°57 | 13° 4 | 10°28 | 0°30 | 4° 3 | 24°12 | 22°21 | 19°49 | 12°55 | W28 |
| T 29 | 2 29 17 | 5°38'06 | 24°50 | 7°19 | 9°32 | 9°18 | 12° 7 | 13° 2 | 10°27 | 0°30 | 4° 3 | 24°R12 | 22°17 | 19°55 | 12°54 | T 29 |
| F 30 | 2 33 14 | 6°38'14 | 6♎56 | 6° 1 | 9°45 | 9°57 | 12°17 | 13° 1 | 10°26 | 0°31 | 4° 2 | 24°12 | 22°14 | 20° 2 | 12°52 | F 30 |
| S 31 | 2 37 10 | 7♏38'25 | 18♎55 | 4♏44 | 9♐56 | 10♎35 | 12♍27 | 12♓59 | 10♓25 | 0♒32 | 4♋ 1 | 24♓ 9 | 22♓11 | 20♏ 9 | 12♓51 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s 6 | 6n30 | 0n51 | 14s30 | 2s22 | 22s51 | 4s25 | 4n26 | 1n 5 | 9n51 | 0n56 | 8s15 | 2s18 | 8s 8 | 0s48 | 19s54 | 0n11 | 19n26 | 4s 0 | 2s 5 | 2s29 | 20s50 | 1s51 | 4n54 |
| F 2 | 3 29 | 0 36 | 0s17 | 15 0 | 2 28 | 23 8 | 4 30 | 4 11 | 1 5 | 9 47 | 0 56 | 8 16 | 2 18 | 8 9 | 0 48 | 19 54 | 0 11 | 19 26 | 4 0 | 2 5 | 2 30 | 20 52 | 1 52 | 4 54 |
| S 3 | 3 53 | 5s15 | 1 23 | 15 29 | 2 34 | 23 25 | 4 34 | 3 56 | 1 4 | 9 42 | 0 56 | 8 18 | 2 18 | 8 9 | 0 48 | 19 54 | 0 11 | 19 26 | 4 0 | 2 5 | 2 31 | 20 54 | 1 53 | 4 54 |
| S 4 | 4 16 | 10 50 | 2 25 | 15 57 | 2 40 | 23 41 | 4 39 | 3 40 | 1 4 | 9 38 | 0 56 | 8 19 | 2 18 | 8 10 | 0 48 | 19 55 | 0 11 | 19 26 | 4 0 | 2 6 | 2 32 | 20 57 | 1 54 | 4 54 |
| M 5 | 4 39 | 15 59 | 3 20 | 16 23 | 2 45 | 23 57 | 4 43 | 3 25 | 1 4 | 9 34 | 0 56 | 8 21 | 2 18 | 8 11 | 0 48 | 19 55 | 0 11 | 19 26 | 4 0 | 2 6 | 2 34 | 20 59 | 1 55 | 4 53 |
| T 6 | 5 2 | 20 31 | 4 6 | 16 48 | 2 50 | 24 13 | 4 47 | 3 10 | 1 4 | 9 29 | 0 56 | 8 22 | 2 18 | 8 11 | 0 48 | 19 55 | 0 11 | 19 26 | 4 0 | 2 8 | 2 35 | 21 2 | 1 56 | 4 53 |
| W 7 | 5 26 | 24 13 | 4 41 | 17 12 | 2 55 | 24 27 | 4 52 | 2 54 | 1 4 | 9 25 | 0 57 | 8 23 | 2 17 | 8 12 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 9 | 2 36 | 21 4 | 1 57 | 4 53 |
| T 8 | 5 49 | 26 55 | 5 4 | 17 34 | 2 59 | 24 42 | 4 56 | 2 39 | 1 4 | 9 21 | 0 57 | 8 25 | 2 17 | 8 13 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 10 | 2 37 | 21 7 | 1 58 | 4 53 |
| F 9 | 6 12 | 28 26 | 5 14 | 17 55 | 3 3 | 24 55 | 5 0 | 2 23 | 1 3 | 9 17 | 0 57 | 8 26 | 2 17 | 8 14 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 11 | 2 39 | 21 9 | 1 59 | 4 52 |
| S 10 | 6 35 | 28 37 | 5 11 | 18 13 | 3 6 | 25 8 | 5 3 | 2 8 | 1 3 | 9 12 | 0 57 | 8 27 | 2 17 | 8 14 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 12 | 2 40 | 21 11 | 2 0 | 4 52 |
| S 11 | 6 57 | 27 24 | 4 53 | 18 30 | 3 9 | 25 21 | 5 7 | 1 52 | 1 3 | 9 8 | 0 57 | 8 28 | 2 17 | 8 15 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 12 | 2 41 | 21 14 | 2 2 | 4 52 |
| M12 | 7 20 | 24 48 | 4 22 | 18 45 | 3 11 | 25 33 | 5 10 | 1 37 | 1 3 | 9 4 | 0 57 | 8 30 | 2 17 | 8 15 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 12 | 2 42 | 21 16 | 2 3 | 4 52 |
| T 13 | 7 43 | 20 53 | 3 36 | 18 58 | 3 12 | 25 45 | 5 14 | 1 21 | 1 3 | 9 0 | 0 57 | 8 31 | 2 17 | 8 16 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 11 | 2 44 | 21 19 | 2 4 | 4 52 |
| W14 | 8 5 | 15 49 | 2 37 | 19 8 | 3 13 | 25 55 | 5 17 | 1 6 | 1 2 | 8 56 | 0 58 | 8 32 | 2 17 | 8 17 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 11 | 2 45 | 21 21 | 2 5 | 4 51 |
| T 15 | 8 28 | 9 48 | 1 28 | 19 16 | 3 12 | 26 6 | 5 20 | 0 50 | 1 2 | 8 52 | 0 58 | 8 33 | 2 17 | 8 17 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 10 | 2 46 | 21 23 | 2 6 | 4 51 |
| F 16 | 8 50 | 3 6 | 0 11 | 19 21 | 3 11 | 26 16 | 5 22 | 0 35 | 1 2 | 8 48 | 0 58 | 8 34 | 2 17 | 8 18 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 10 | 2 48 | 21 26 | 2 7 | 4 51 |
| S 17 | 9 12 | 3n57 | 1n 9 | 19 23 | 3 8 | 26 25 | 5 25 | 0 19 | 1 2 | 8 44 | 0 58 | 8 35 | 2 16 | 8 18 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 10 | 2 49 | 21 28 | 2 8 | 4 51 |
| S 18 | 9 34 | 10 56 | 2 26 | 19 21 | 3 5 | 26 33 | 5 27 | 0 4 | 1 2 | 8 40 | 0 58 | 8 36 | 2 16 | 8 19 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 11 | 2 50 | 21 31 | 2 9 | 4 50 |
| M19 | 9 56 | 17 22 | 3 33 | 19 16 | 3 0 | 26 41 | 5 29 | 0s12 | 1 1 | 8 36 | 0 58 | 8 37 | 2 16 | 8 20 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 12 | 2 51 | 21 33 | 2 10 | 4 50 |
| T 20 | 10 18 | 22 44 | 4 25 | 19 7 | 2 53 | 26 49 | 5 31 | 0 28 | 1 1 | 8 32 | 0 59 | 8 38 | 2 16 | 8 20 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 14 | 2 53 | 21 35 | 2 11 | 4 50 |
| W21 | 10 39 | 26 32 | 4 59 | 18 55 | 2 45 | 26 55 | 5 33 | 0 43 | 1 1 | 8 28 | 0 59 | 8 39 | 2 16 | 8 21 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 16 | 2 54 | 21 38 | 2 11 | 4 50 |
| T 22 | 11 1 | 28 27 | 5 11 | 18 37 | 2 36 | 27 2 | 5 34 | 0 59 | 1 1 | 8 24 | 0 59 | 8 40 | 2 16 | 8 21 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 18 | 2 55 | 21 40 | 2 12 | 4 49 |
| F 23 | 11 22 | 28 22 | 5 4 | 18 16 | 2 25 | 27 7 | 5 35 | 1 14 | 1 1 | 8 20 | 0 59 | 8 41 | 2 16 | 8 22 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 19 | 2 56 | 21 42 | 2 13 | 4 49 |
| S 24 | 11 43 | 26 29 | 4 39 | 17 50 | 2 11 | 27 12 | 5 36 | 1 30 | 1 0 | 8 16 | 0 59 | 8 42 | 2 16 | 8 22 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 20 | 2 58 | 21 45 | 2 14 | 4 49 |
| S 25 | 12 4 | 23 6 | 3 59 | 17 19 | 1 57 | 27 16 | 5 36 | 1 45 | 1 0 | 8 12 | 0 59 | 8 42 | 2 15 | 8 22 | 0 48 | 19 55 | 0 11 | 19 25 | 4 0 | 2 20 | 2 59 | 21 47 | 2 15 | 4 48 |
| M26 | 12 25 | 18 38 | 3 7 | 16 44 | 1 40 | 27 19 | 5 36 | 2 1 | 1 0 | 8 8 | 1 0 | 8 43 | 2 15 | 8 23 | 0 48 | 19 54 | 0 11 | 19 25 | 4 0 | 2 20 | 3 0 | 21 49 | 2 16 | 4 48 |
| T 27 | 12 45 | 13 27 | 2 7 | 16 5 | 1 22 | 27 22 | 5 36 | 2 16 | 1 0 | 8 5 | 1 0 | 8 44 | 2 15 | 8 23 | 0 48 | 19 54 | 0 11 | 19 25 | 4 0 | 2 19 | 3 1 | 21 52 | 2 17 | 4 48 |
| W28 | 13 5 | 7 49 | 1 3 | 15 23 | 1 3 | 27 24 | 5 35 | 2 32 | 0 59 | 8 1 | 1 0 | 8 44 | 2 15 | 8 24 | 0 48 | 19 54 | 0 11 | 19 25 | 4 0 | 2 19 | 3 3 | 21 54 | 2 18 | 4 48 |
| T 29 | 13 26 | 2 0 | 0s 3 | 14 39 | 0 43 | 27 25 | 5 34 | 2 47 | 0 59 | 7 57 | 1 0 | 8 45 | 2 15 | 8 24 | 0 48 | 19 54 | 0 11 | 19 25 | 4 1 | 2 18 | 3 4 | 21 56 | 2 18 | 4 47 |
| F 30 | 13 45 | 3s48 | 1 8 | 13 54 | 0 22 | 27 26 | 5 33 | 3 3 | 0 59 | 7 54 | 1 0 | 8 46 | 2 15 | 8 24 | 0 48 | 19 54 | 0 11 | 19 25 | 4 1 | 2 19 | 3 5 | 21 59 | 2 19 | 4 47 |
| S 31 | 14s 5 | 9s25 | 2s10 | 13s 9 | 0s 2 | 27s26 | 5s31 | 3s18 | 0n59 | 7n50 | 1n 1 | 8s46 | 2s15 | 8s25 | 0s48 | 19s54 | 0n11 | 19n25 | 4s 1 | 2s20 | 3s 6 | 22s 1 | 2s20 | 4n47 |

Julian Day Number = 2331653.5, Delta T = 28.63 sec
Ecliptic obliquity = 23°29'05, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'30, Lahiri = 19°16'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## NOVEMBER 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 41 7 | 8♏38'37 | 0♏49 | 3°R31 | 10♐ 4 | 11♎14 | 12♍37 | 12°R57 | 10°R24 | 0♒32 | 4°R 1 | 24°R 3 | 22♓ 8 | 20♏15 | 12°R50 | S 1 |
| M 2 | 2 45 4 | 9°38'52 | 12°41 | 2♏24 | 10°11 | 11°53 | 12°46 | 12♓56 | 10♓23 | 0°33 | 4♋ 0 | 23♓56 | 22° 5 | 20°22 | 12♓48 | M 2 |
| T 3 | 2 49 0 | 10°39'08 | 24°31 | 1°25 | 10°15 | 12°32 | 12°56 | 12°54 | 10°22 | 0°34 | 4° 0 | 23°47 | 22° 2 | 20°29 | 12°47 | T 3 |
| W 4 | 2 52 57 | 11°39'26 | 6♐22 | 0°36 | 10°R17 | 13°10 | 13° 5 | 12°53 | 10°21 | 0°34 | 3°59 | 23°37 | 21°58 | 20°36 | 12°46 | W 4 |
| T 5 | 2 56 53 | 12°39'46 | 18°16 | 29♎58 | 10°16 | 13°49 | 13°15 | 12°52 | 10°20 | 0°35 | 3°58 | 23°28 | 21°55 | 20°42 | 12°45 | T 5 |
| F 6 | 3 0 50 | 13°40'07 | 0♑14 | 29°32 | 10°13 | 14°28 | 13°24 | 12°51 | 10°20 | 0°36 | 3°57 | 23°19 | 21°52 | 20°49 | 12°44 | F 6 |
| S 7 | 3 4 46 | 14°40'30 | 12°19 | 29°17 | 10° 8 | 15° 7 | 13°33 | 12°50 | 10°19 | 0°37 | 3°57 | 23°12 | 21°49 | 20°56 | 12°43 | S 7 |
| S 8 | 3 8 43 | 15°40'54 | 24°34 | 29°D14 | 10° 0 | 15°46 | 13°42 | 12°49 | 10°18 | 0°38 | 3°56 | 23° 7 | 21°46 | 21° 2 | 12°42 | S 8 |
| M 9 | 3 12 39 | 16°41'19 | 7♒ 4 | 29°21 | 9°49 | 16°24 | 13°51 | 12°48 | 10°18 | 0°39 | 3°55 | 23° 5 | 21°43 | 21° 9 | 12°41 | M 9 |
| T 10 | 3 16 36 | 17°41'46 | 19°52 | 29°40 | 9°36 | 17° 3 | 14° 0 | 12°47 | 10°17 | 0°40 | 3°54 | 23°D 4 | 21°39 | 21°16 | 12°40 | T 10 |
| W11 | 3 20 33 | 18°42'14 | 3♓ 3 | 0♏ 7 | 9°21 | 17°42 | 14° 9 | 12°47 | 10°17 | 0°41 | 3°54 | 23° 5 | 21°36 | 21°22 | 12°40 | W11 |
| T 12 | 3 24 29 | 19°42'44 | 16°39 | 0°44 | 9° 4 | 18°21 | 14°17 | 12°46 | 10°16 | 0°42 | 3°53 | 23°R 6 | 21°33 | 21°29 | 12°39 | T 12 |
| F 13 | 3 28 26 | 20°43'14 | 0♈44 | 1°28 | 8°44 | 19° 0 | 14°25 | 12°46 | 10°16 | 0°43 | 3°52 | 23° 6 | 21°30 | 21°36 | 12°38 | F 13 |
| S 14 | 3 32 22 | 21°43'46 | 15°16 | 2°19 | 8°21 | 19°39 | 14°34 | 12°46 | 10°16 | 0°44 | 3°51 | 23° 4 | 21°27 | 21°43 | 12°38 | S 14 |
| S 15 | 3 36 19 | 22°44'20 | 0♉13 | 3°16 | 7°57 | 20°17 | 14°42 | 12°45 | 10°16 | 0°45 | 3°50 | 22°59 | 21°23 | 21°49 | 12°37 | S 15 |
| M16 | 3 40 15 | 23°44'54 | 15°26 | 4°18 | 7°30 | 20°56 | 14°50 | 12°D45 | 10°15 | 0°46 | 3°49 | 22°52 | 21°20 | 21°56 | 12°37 | M16 |
| T 17 | 3 44 12 | 24°45'31 | 0♊48 | 5°25 | 7° 2 | 21°35 | 14°58 | 12°45 | 10°15 | 0°47 | 3°49 | 22°44 | 21°17 | 22° 3 | 12°36 | T 17 |
| W18 | 3 48 8 | 25°46'08 | 16° 5 | 6°36 | 6°32 | 22°14 | 15° 6 | 12°45 | 10°15 | 0°48 | 3°48 | 22°34 | 21°14 | 22° 9 | 12°36 | W18 |
| T 19 | 3 52 5 | 26°46'48 | 1♋ 6 | 7°51 | 6° 0 | 22°53 | 15°13 | 12°46 | 10°D15 | 0°49 | 3°47 | 22°24 | 21°11 | 22°16 | 12°36 | T 19 |
| F 20 | 3 56 2 | 27°47'29 | 15°44 | 9° 8 | 5°27 | 23°32 | 15°21 | 12°46 | 10°15 | 0°51 | 3°46 | 22°16 | 21° 8 | 22°23 | 12°36 | F 20 |
| S 21 | 3 59 58 | 28°48'11 | 29°53 | 10°28 | 4°53 | 24°11 | 15°28 | 12°47 | 10°15 | 0°52 | 3°45 | 22°10 | 21° 4 | 22°30 | 12°35 | S 21 |
| S 22 | 4 3 55 | 29°48'55 | 13♌31 | 11°50 | 4°18 | 24°50 | 15°36 | 12°47 | 10°15 | 0°53 | 3°44 | 22° 7 | 21° 1 | 22°36 | 12°35 | S 22 |
| M23 | 4 7 51 | 0♐49'41 | 26°41 | 13°13 | 3°42 | 25°29 | 15°43 | 12°48 | 10°15 | 0°55 | 3°43 | 22°D 6 | 20°58 | 22°43 | 12°D35 | M23 |
| T 24 | 4 11 48 | 1°50'28 | 9♍26 | 14°38 | 3° 6 | 26° 8 | 15°50 | 12°49 | 10°16 | 0°56 | 3°42 | 22° 6 | 20°55 | 22°50 | 12°35 | T 24 |
| W25 | 4 15 44 | 2°51'16 | 21°50 | 16° 5 | 2°30 | 26°47 | 15°57 | 12°50 | 10°16 | 0°57 | 3°41 | 22°R 6 | 20°52 | 22°56 | 12°35 | W25 |
| T 26 | 4 19 41 | 3°52'06 | 4♎ 0 | 17°32 | 1°53 | 27°26 | 16° 3 | 12°51 | 10°16 | 0°59 | 3°40 | 22° 5 | 20°48 | 23° 3 | 12°35 | T 26 |
| F 27 | 4 23 37 | 4°52'58 | 15°58 | 19° 1 | 1°17 | 28° 5 | 16°10 | 12°52 | 10°16 | 1° 0 | 3°39 | 22° 3 | 20°45 | 23°10 | 12°36 | F 27 |
| S 28 | 4 27 34 | 5°53'50 | 27°51 | 20°30 | 0°42 | 28°44 | 16°16 | 12°53 | 10°17 | 1° 2 | 3°38 | 21°57 | 20°42 | 23°16 | 12°36 | S 28 |
| S 29 | 4 31 31 | 6°54'45 | 9♏41 | 22° 0 | 0° 7 | 29°23 | 16°22 | 12°54 | 10°17 | 1° 3 | 3°37 | 21°49 | 20°39 | 23°23 | 12°36 | S 29 |
| M30 | 4 35 27 | 7♐55'40 | 21♏31 | 23♏30 | 29♏33 | 0♏ 2 | 16♍28 | 12♓56 | 10♓18 | 1♒ 5 | 3♋36 | 21♓38 | 20♓36 | 23♏30 | 12♓37 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s25 | 14s40 | 3s 5 | 12s25 | 0n19 | 27s25 | 5s28 | 3s33 | 0n58 | 7n46 | 1n 1 | 8s47 | 2s14 | 8s25 | 0s48 | 19s54 | 0n11 | 19n25 | 4s 1 | 2s22 | 3s 8 | 22s 3 | 2s21 | 4n46 |
| M 2 | 14 44 | 19 20 | 3 51 | 11 44 | 0 38 | 27 23 | 5 25 | 3 49 | 0 58 | 7 43 | 1 1 | 8 47 | 2 14 | 8 25 | 0 48 | 19 54 | 0 11 | 19 25 | 4 1 | 2 25 | 3 9 | 22 5 | 2 22 | 4 46 |
| T 3 | 15 3 | 23 16 | 4 28 | 11 6 | 0 56 | 27 20 | 5 22 | 4 4 | 0 58 | 7 39 | 1 1 | 8 47 | 2 14 | 8 26 | 0 48 | 19 54 | 0 11 | 19 25 | 4 1 | 2 28 | 3 10 | 22 8 | 2 22 | 4 46 |
| W 4 | 15 22 | 26 13 | 4 53 | 10 34 | 1 13 | 27 17 | 5 18 | 4 19 | 0 58 | 7 36 | 1 1 | 8 48 | 2 14 | 8 26 | 0 47 | 19 53 | 0 11 | 19 25 | 4 1 | 2 32 | 3 11 | 22 10 | 2 23 | 4 45 |
| T 5 | 15 40 | 28 2 | 5 5 | 10 6 | 1 28 | 27 12 | 5 14 | 4 35 | 0 57 | 7 33 | 1 2 | 8 48 | 2 14 | 8 26 | 0 47 | 19 53 | 0 11 | 19 25 | 4 1 | 2 36 | 3 13 | 22 12 | 2 24 | 4 45 |
| F 6 | 15 58 | 28 33 | 5 4 | 9 45 | 1 41 | 27 7 | 5 9 | 4 50 | 0 57 | 7 29 | 1 2 | 8 48 | 2 14 | 8 26 | 0 47 | 19 53 | 0 11 | 19 25 | 4 1 | 2 39 | 3 14 | 22 15 | 2 24 | 4 45 |
| S 7 | 16 16 | 27 43 | 4 50 | 9 29 | 1 52 | 27 1 | 5 3 | 5 5 | 0 57 | 7 26 | 1 2 | 8 49 | 2 13 | 8 27 | 0 47 | 19 53 | 0 11 | 19 25 | 4 1 | 2 42 | 3 15 | 22 17 | 2 25 | 4 45 |
| S 8 | 16 34 | 25 32 | 4 22 | 9 19 | 2 2 | 26 53 | 4 57 | 5 21 | 0 57 | 7 23 | 1 2 | 8 49 | 2 13 | 8 27 | 0 47 | 19 53 | 0 11 | 19 25 | 4 1 | 2 44 | 3 16 | 22 19 | 2 26 | 4 44 |
| M 9 | 16 51 | 22 6 | 3 41 | 9 15 | 2 9 | 26 45 | 4 51 | 5 36 | 0 56 | 7 19 | 1 2 | 8 49 | 2 13 | 8 27 | 0 47 | 19 53 | 0 11 | 19 25 | 4 1 | 2 45 | 3 18 | 22 21 | 2 26 | 4 44 |
| T 10 | 17 8 | 17 33 | 2 48 | 9 16 | 2 15 | 26 36 | 4 43 | 5 51 | 0 56 | 7 16 | 1 3 | 8 49 | 2 13 | 8 27 | 0 47 | 19 52 | 0 11 | 19 25 | 4 1 | 2 45 | 3 19 | 22 23 | 2 27 | 4 44 |
| W11 | 17 25 | 12 3 | 1 45 | 9 22 | 2 19 | 26 26 | 4 35 | 6 6 | 0 56 | 7 13 | 1 3 | 8 49 | 2 13 | 8 27 | 0 47 | 19 52 | 0 11 | 19 25 | 4 1 | 2 45 | 3 20 | 22 26 | 2 27 | 4 43 |
| T 12 | 17 42 | 5 48 | 0 34 | 9 32 | 2 22 | 26 15 | 4 27 | 6 21 | 0 55 | 7 10 | 1 3 | 8 49 | 2 13 | 8 27 | 0 47 | 19 52 | 0 11 | 19 25 | 4 1 | 2 45 | 3 21 | 22 28 | 2 28 | 4 43 |
| F 13 | 17 58 | 0n55 | 0n41 | 9 46 | 2 23 | 26 2 | 4 18 | 6 36 | 0 55 | 7 7 | 1 3 | 8 49 | 2 12 | 8 28 | 0 47 | 19 52 | 0 11 | 19 25 | 4 1 | 2 45 | 3 23 | 22 30 | 2 28 | 4 43 |
| S 14 | 18 14 | 7 48 | 1 56 | 10 4 | 2 23 | 25 49 | 4 8 | 6 51 | 0 55 | 7 4 | 1 3 | 8 49 | 2 12 | 8 28 | 0 47 | 19 52 | 0 11 | 19 25 | 4 1 | 2 45 | 3 24 | 22 32 | 2 29 | 4 42 |
| S 15 | 18 29 | 14 27 | 3 4 | 10 24 | 2 22 | 25 35 | 3 57 | 7 6 | 0 55 | 7 1 | 1 4 | 8 49 | 2 12 | 8 28 | 0 47 | 19 51 | 0 11 | 19 25 | 4 1 | 2 47 | 3 25 | 22 35 | 2 29 | 4 42 |
| M16 | 18 45 | 20 21 | 4 2 | 10 47 | 2 20 | 25 19 | 3 46 | 7 21 | 0 54 | 6 58 | 1 4 | 8 49 | 2 12 | 8 28 | 0 47 | 19 51 | 0 11 | 19 25 | 4 1 | 2 50 | 3 26 | 22 37 | 2 30 | 4 42 |
| T 17 | 19 0 | 24 57 | 4 42 | 11 12 | 2 17 | 25 3 | 3 34 | 7 36 | 0 54 | 6 55 | 1 4 | 8 49 | 2 12 | 8 28 | 0 47 | 19 51 | 0 11 | 19 25 | 4 1 | 2 54 | 3 28 | 22 39 | 2 30 | 4 41 |
| W18 | 19 14 | 27 45 | 5 1 | 11 38 | 2 14 | 24 46 | 3 22 | 7 51 | 0 54 | 6 52 | 1 4 | 8 48 | 2 11 | 8 28 | 0 47 | 19 51 | 0 11 | 19 25 | 4 1 | 2 57 | 3 29 | 22 41 | 2 31 | 4 41 |
| T 19 | 19 28 | 28 29 | 5 0 | 12 6 | 2 10 | 24 27 | 3 9 | 8 5 | 0 53 | 6 50 | 1 5 | 8 48 | 2 11 | 8 28 | 0 47 | 19 50 | 0 10 | 19 25 | 4 1 | 3 1 | 3 30 | 22 43 | 2 31 | 4 41 |
| F 20 | 19 42 | 27 10 | 4 38 | 12 35 | 2 5 | 24 8 | 2 56 | 8 20 | 0 53 | 6 47 | 1 5 | 8 48 | 2 11 | 8 28 | 0 47 | 19 50 | 0 10 | 19 25 | 4 1 | 3 4 | 3 31 | 22 46 | 2 32 | 4 40 |
| S 21 | 19 56 | 24 8 | 4 1 | 13 5 | 2 0 | 23 49 | 2 42 | 8 35 | 0 53 | 6 44 | 1 5 | 8 47 | 2 11 | 8 28 | 0 47 | 19 50 | 0 10 | 19 25 | 4 1 | 3 7 | 3 33 | 22 48 | 2 32 | 4 40 |
| S 22 | 20 9 | 19 50 | 3 10 | 13 36 | 1 55 | 23 28 | 2 28 | 8 49 | 0 52 | 6 42 | 1 5 | 8 47 | 2 11 | 8 28 | 0 47 | 19 50 | 0 10 | 19 25 | 4 1 | 3 8 | 3 34 | 22 50 | 2 32 | 4 40 |
| M23 | 20 22 | 14 41 | 2 11 | 14 7 | 1 49 | 23 7 | 2 13 | 9 4 | 0 52 | 6 39 | 1 5 | 8 47 | 2 11 | 8 27 | 0 47 | 19 49 | 0 10 | 19 25 | 4 1 | 3 9 | 3 35 | 22 52 | 2 33 | 4 39 |
| T 24 | 20 34 | 9 5 | 1 7 | 14 38 | 1 42 | 22 45 | 1 58 | 9 18 | 0 52 | 6 37 | 1 6 | 8 46 | 2 10 | 8 27 | 0 47 | 19 49 | 0 10 | 19 25 | 4 1 | 3 9 | 3 36 | 22 54 | 2 33 | 4 39 |
| W25 | 20 46 | 3 16 | 0 1 | 15 9 | 1 36 | 22 23 | 1 43 | 9 33 | 0 51 | 6 34 | 1 6 | 8 46 | 2 10 | 8 27 | 0 47 | 19 49 | 0 10 | 19 25 | 4 1 | 3 8 | 3 38 | 22 56 | 2 33 | 4 39 |
| T 26 | 20 58 | 2s33 | 1s 3 | 15 40 | 1 29 | 22 1 | 1 28 | 9 47 | 0 51 | 6 32 | 1 6 | 8 45 | 2 10 | 8 27 | 0 47 | 19 49 | 0 10 | 19 25 | 4 1 | 3 9 | 3 39 | 22 58 | 2 34 | 4 38 |
| F 27 | 21 9 | 8 11 | 2 3 | 16 11 | 1 23 | 21 38 | 1 12 | 10 1 | 0 51 | 6 29 | 1 6 | 8 44 | 2 10 | 8 27 | 0 47 | 19 48 | 0 10 | 19 25 | 4 1 | 3 10 | 3 40 | 23 1 | 2 34 | 4 38 |
| S 28 | 21 20 | 13 29 | 2 57 | 16 41 | 1 16 | 21 16 | 0 57 | 10 16 | 0 50 | 6 27 | 1 7 | 8 44 | 2 10 | 8 27 | 0 47 | 19 48 | 0 10 | 19 25 | 4 1 | 3 12 | 3 41 | 23 3 | 2 34 | 4 38 |
| S 29 | 21 30 | 18 16 | 3 43 | 17 12 | 1 9 | 20 53 | 0 41 | 10 30 | 0 50 | 6 25 | 1 7 | 8 43 | 2 9 | 8 26 | 0 46 | 19 48 | 0 10 | 19 25 | 4 1 | 3 15 | 3 43 | 23 5 | 2 34 | 4 37 |
| M30 | 21s40 | 22s21 | 4s20 | 17s41 | 1n 2 | 20s31 | 0s26 | 10s44 | 0n50 | 6n23 | 1n 7 | 8s42 | 2s 9 | 8s26 | 0s46 | 19s47 | 0n10 | 19n25 | 4s 1 | 3s20 | 3s44 | 23s 7 | 2s34 | 4n37 |

Julian Day Number = 2331684.5, Delta T = 28.58 sec
Ecliptic obliquity = 23°29'04, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'34, Lahiri = 19°16'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1671
# geocentric

## DECEMBER 1671 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 39 24 | 8♐56'36 | 3♐23 | 25♏ 1 | 29°R 1 | 0♏41 | 16♍34 | 12♓57 | 10♓18 | 1♒ 6 | 3°R34 | 21°R24 | 20♓33 | 23♏37 | 12♓37 | T 1 |
| W 2 | 4 43 20 | 9°57'34 | 15°18 | 26°32 | 28♏30 | 1°20 | 16°40 | 12°59 | 10°19 | 1° 8 | 3♋33 | 21♓ 9 | 20°29 | 23°43 | 12°37 | W 2 |
| T 3 | 4 47 17 | 10°58'33 | 27°18 | 28° 3 | 28° 1 | 1°59 | 16°46 | 13° 1 | 10°20 | 1° 9 | 3°32 | 20°55 | 20°26 | 23°50 | 12°38 | T 3 |
| F 4 | 4 51 13 | 11°59'32 | 9♑24 | 29°35 | 27°33 | 2°38 | 16°51 | 13° 2 | 10°20 | 1°11 | 3°31 | 20°41 | 20°23 | 23°57 | 12°39 | F 4 |
| S 5 | 4 55 10 | 13° 0'33 | 21°37 | 1♐ 7 | 27° 8 | 3°18 | 16°57 | 13° 4 | 10°21 | 1°13 | 3°30 | 20°30 | 20°20 | 24° 3 | 12°39 | S 5 |
| S 6 | 4 59 6 | 14° 1'33 | 3♒59 | 2°39 | 26°44 | 3°57 | 17° 2 | 13° 6 | 10°22 | 1°14 | 3°29 | 20°21 | 20°17 | 24°10 | 12°40 | S 6 |
| M 7 | 5 3 3 | 15° 2'35 | 16°33 | 4°11 | 26°23 | 4°36 | 17° 7 | 13° 9 | 10°23 | 1°16 | 3°28 | 20°16 | 20°14 | 24°17 | 12°41 | M 7 |
| T 8 | 5 7 0 | 16° 3'37 | 29°21 | 5°44 | 26° 4 | 5°15 | 17°12 | 13°11 | 10°24 | 1°18 | 3°27 | 20°14 | 20°10 | 24°24 | 12°42 | T 8 |
| W 9 | 5 10 56 | 17° 4'40 | 12♓26 | 7°16 | 25°47 | 5°54 | 17°16 | 13°13 | 10°25 | 1°19 | 3°25 | 20°13 | 20° 7 | 24°30 | 12°42 | W 9 |
| T 10 | 5 14 53 | 18° 5'43 | 25°53 | 8°49 | 25°33 | 6°33 | 17°21 | 13°16 | 10°26 | 1°21 | 3°24 | 20°13 | 20° 4 | 24°37 | 12°43 | T 10 |
| F 11 | 5 18 49 | 19° 6'46 | 9♈44 | 10°22 | 25°21 | 7°12 | 17°25 | 13°18 | 10°27 | 1°23 | 3°23 | 20°12 | 20° 1 | 24°44 | 12°44 | F 11 |
| S 12 | 5 22 46 | 20° 7'50 | 23°59 | 11°55 | 25°12 | 7°52 | 17°29 | 13°21 | 10°28 | 1°25 | 3°22 | 20° 9 | 19°58 | 24°50 | 12°45 | S 12 |
| S 13 | 5 26 42 | 21° 8'54 | 8♉39 | 13°28 | 25° 5 | 8°31 | 17°33 | 13°24 | 10°29 | 1°27 | 3°21 | 20° 4 | 19°54 | 24°57 | 12°46 | S 13 |
| M14 | 5 30 39 | 22° 9'59 | 23°38 | 15° 1 | 25° 0 | 9°10 | 17°37 | 13°26 | 10°30 | 1°28 | 3°19 | 19°56 | 19°51 | 25° 4 | 12°48 | M14 |
| T 15 | 5 34 36 | 23°11'04 | 8♊49 | 16°35 | 24°D58 | 9°49 | 17°40 | 13°29 | 10°32 | 1°30 | 3°18 | 19°45 | 19°48 | 25°11 | 12°49 | T 15 |
| W16 | 5 38 32 | 24°12'09 | 24° 2 | 18° 8 | 24°59 | 10°29 | 17°44 | 13°33 | 10°33 | 1°32 | 3°17 | 19°34 | 19°45 | 25°17 | 12°50 | W16 |
| T 17 | 5 42 29 | 25°13'16 | 9♋ 5 | 19°42 | 25° 2 | 11° 8 | 17°47 | 13°36 | 10°34 | 1°34 | 3°16 | 19°22 | 19°42 | 25°24 | 12°52 | T 17 |
| F 18 | 5 46 25 | 26°14'22 | 23°48 | 21°16 | 25° 7 | 11°47 | 17°50 | 13°39 | 10°36 | 1°36 | 3°15 | 19°12 | 19°39 | 25°31 | 12°53 | F 18 |
| S 19 | 5 50 22 | 27°15'29 | 8♌ 5 | 22°50 | 25°15 | 12°26 | 17°53 | 13°42 | 10°37 | 1°38 | 3°13 | 19° 4 | 19°35 | 25°37 | 12°54 | S 19 |
| S 20 | 5 54 18 | 28°16'37 | 21°52 | 24°25 | 25°25 | 13° 6 | 17°56 | 13°46 | 10°39 | 1°40 | 3°12 | 18°59 | 19°32 | 25°44 | 12°56 | S 20 |
| M21 | 5 58 15 | 29°17'45 | 5♍10 | 25°59 | 25°37 | 13°45 | 17°58 | 13°49 | 10°40 | 1°42 | 3°11 | 18°56 | 19°29 | 25°51 | 12°57 | M21 |
| T 22 | 6 2 11 | 0♑18'54 | 18° 1 | 27°34 | 25°52 | 14°24 | 18° 1 | 13°53 | 10°42 | 1°44 | 3°10 | 18°D56 | 19°26 | 25°58 | 12°59 | T 22 |
| W23 | 6 6 8 | 1°20'03 | 0♎29 | 29° 9 | 26° 8 | 15° 3 | 18° 3 | 13°57 | 10°44 | 1°46 | 3° 9 | 18°R56 | 19°23 | 26° 4 | 13° 1 | W23 |
| T 24 | 6 10 5 | 2°21'13 | 12°39 | 0♑45 | 26°27 | 15°43 | 18° 5 | 14° 0 | 10°45 | 1°48 | 3° 7 | 18°55 | 19°20 | 26°11 | 13° 2 | T 24 |
| F 25 | 6 14 1 | 3°22'23 | 24°37 | 2°20 | 26°47 | 16°22 | 18° 7 | 14° 4 | 10°47 | 1°50 | 3° 6 | 18°53 | 19°16 | 26°18 | 13° 4 | F 25 |
| S 26 | 6 17 58 | 4°23'34 | 6♏29 | 3°56 | 27°10 | 17° 2 | 18° 8 | 14° 8 | 10°49 | 1°52 | 3° 5 | 18°49 | 19°13 | 26°24 | 13° 6 | S 26 |
| S 27 | 6 21 54 | 5°24'45 | 18°18 | 5°33 | 27°34 | 17°41 | 18°10 | 14°12 | 10°51 | 1°54 | 3° 4 | 18°42 | 19°10 | 26°31 | 13° 8 | S 27 |
| M28 | 6 25 51 | 6°25'56 | 0♐ 9 | 7° 9 | 28° 0 | 18°20 | 18°11 | 14°16 | 10°52 | 1°56 | 3° 2 | 18°32 | 19° 7 | 26°38 | 13°10 | M28 |
| T 29 | 6 29 47 | 7°27'08 | 12° 4 | 8°46 | 28°28 | 19° 0 | 18°12 | 14°21 | 10°54 | 1°58 | 3° 1 | 18°19 | 19° 4 | 26°45 | 13°12 | T 29 |
| W30 | 6 33 44 | 8°28'20 | 24° 5 | 10°24 | 28°58 | 19°39 | 18°13 | 14°25 | 10°56 | 2° 0 | 3° 0 | 18° 6 | 19° 1 | 26°51 | 13°14 | W30 |
| T 31 | 6 37 40 | 9♑29'31 | 6♑15 | 12♑ 1 | 29♏29 | 20♏18 | 18♍13 | 14♓29 | 10♓58 | 2♒ 3 | 2♋59 | 17♓52 | 18♓57 | 26♏58 | 13♓16 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s50 | 25s32 | 4s45 | 18s11 | 0n54 | 20s 9 | 0s10 | 10s58 | 0n49 | 6n21 | 1n 7 | 8s42 | 2s 9 | 8s26 | 0s46 | 19s47 | 0n10 | 19n25 | 4s 1 | 3s25 | 3s45 | 23s 9 | 2s34 | 4n37 |
| W 2 | 21 59 | 27 36 | 4 58 | 18 39 | 0 47 | 19 47 | 0n 5 | 11 12 | 0 49 | 6 19 | 1 8 | 8 41 | 2 9 | 8 26 | 0 46 | 19 47 | 0 10 | 19 26 | 4 1 | 3 31 | 3 46 | 23 11 | 2 35 | 4 36 |
| T 3 | 22 8 | 28 25 | 4 58 | 19 7 | 0 40 | 19 26 | 0 20 | 11 26 | 0 48 | 6 17 | 1 8 | 8 40 | 2 9 | 8 25 | 0 46 | 19 46 | 0 10 | 19 26 | 4 1 | 3 37 | 3 48 | 23 13 | 2 35 | 4 36 |
| F 4 | 22 16 | 27 52 | 4 44 | 19 34 | 0 33 | 19 5 | 0 35 | 11 40 | 0 48 | 6 15 | 1 8 | 8 39 | 2 8 | 8 25 | 0 46 | 19 46 | 0 10 | 19 26 | 4 1 | 3 42 | 3 49 | 23 15 | 2 35 | 4 36 |
| S 5 | 22 24 | 25 58 | 4 17 | 20 0 | 0 25 | 18 45 | 0 49 | 11 53 | 0 48 | 6 13 | 1 8 | 8 38 | 2 8 | 8 25 | 0 46 | 19 46 | 0 10 | 19 26 | 4 1 | 3 46 | 3 50 | 23 17 | 2 35 | 4 35 |
| S 6 | 22 32 | 22 49 | 3 38 | 20 26 | 0 18 | 18 26 | 1 3 | 12 7 | 0 47 | 6 11 | 1 9 | 8 37 | 2 8 | 8 24 | 0 46 | 19 45 | 0 10 | 19 26 | 4 1 | 3 50 | 3 51 | 23 20 | 2 35 | 4 35 |
| M 7 | 22 39 | 18 34 | 2 48 | 20 50 | 0 11 | 18 8 | 1 17 | 12 21 | 0 47 | 6 9 | 1 9 | 8 36 | 2 8 | 8 24 | 0 46 | 19 45 | 0 10 | 19 26 | 4 1 | 3 52 | 3 53 | 23 22 | 2 35 | 4 35 |
| T 8 | 22 45 | 13 24 | 1 48 | 21 14 | 0 4 | 17 51 | 1 30 | 12 34 | 0 46 | 6 8 | 1 9 | 8 35 | 2 8 | 8 24 | 0 46 | 19 45 | 0 10 | 19 26 | 4 1 | 3 53 | 3 54 | 23 24 | 2 35 | 4 34 |
| W 9 | 22 51 | 7 32 | 0 41 | 21 37 | 0s 3 | 17 34 | 1 43 | 12 47 | 0 46 | 6 6 | 1 10 | 8 34 | 2 8 | 8 23 | 0 46 | 19 44 | 0 10 | 19 26 | 4 1 | 3 53 | 3 55 | 23 26 | 2 35 | 4 34 |
| T 10 | 22 57 | 1 11 | 0n30 | 21 58 | 0 10 | 17 19 | 1 55 | 13 1 | 0 46 | 6 5 | 1 10 | 8 33 | 2 7 | 8 23 | 0 46 | 19 44 | 0 10 | 19 26 | 4 1 | 3 53 | 3 56 | 23 28 | 2 35 | 4 34 |
| F 11 | 23 2 | 5n24 | 1 41 | 22 19 | 0 17 | 17 5 | 2 7 | 13 14 | 0 45 | 6 3 | 1 10 | 8 32 | 2 7 | 8 22 | 0 46 | 19 43 | 0 10 | 19 26 | 4 1 | 3 53 | 3 58 | 23 30 | 2 35 | 4 34 |
| S 12 | 23 7 | 11 55 | 2 48 | 22 39 | 0 23 | 16 52 | 2 18 | 13 27 | 0 45 | 6 2 | 1 10 | 8 31 | 2 7 | 8 22 | 0 46 | 19 43 | 0 10 | 19 26 | 4 1 | 3 54 | 3 59 | 23 32 | 2 35 | 4 33 |
| S 13 | 23 11 | 17 58 | 3 46 | 22 57 | 0 30 | 16 40 | 2 29 | 13 40 | 0 44 | 6 1 | 1 11 | 8 29 | 2 7 | 8 21 | 0 46 | 19 43 | 0 10 | 19 26 | 4 0 | 3 56 | 4 0 | 23 34 | 2 34 | 4 33 |
| M14 | 23 15 | 23 4 | 4 29 | 23 14 | 0 36 | 16 29 | 2 39 | 13 53 | 0 44 | 5 59 | 1 11 | 8 28 | 2 7 | 8 21 | 0 46 | 19 42 | 0 10 | 19 26 | 4 0 | 4 0 | 4 1 | 23 36 | 2 34 | 4 33 |
| T 15 | 23 18 | 26 40 | 4 54 | 23 31 | 0 43 | 16 19 | 2 49 | 14 6 | 0 43 | 5 58 | 1 11 | 8 27 | 2 7 | 8 20 | 0 46 | 19 42 | 0 10 | 19 26 | 4 0 | 4 4 | 4 3 | 23 38 | 2 34 | 4 32 |
| W16 | 23 21 | 28 20 | 4 59 | 23 46 | 0 49 | 16 10 | 2 58 | 14 19 | 0 43 | 5 57 | 1 11 | 8 26 | 2 6 | 8 20 | 0 46 | 19 41 | 0 10 | 19 26 | 4 0 | 4 8 | 4 4 | 23 40 | 2 34 | 4 32 |
| T 17 | 23 24 | 27 52 | 4 43 | 24 0 | 0 55 | 16 2 | 3 7 | 14 31 | 0 43 | 5 56 | 1 12 | 8 24 | 2 6 | 8 19 | 0 46 | 19 41 | 0 10 | 19 26 | 4 0 | 4 13 | 4 5 | 23 42 | 2 34 | 4 32 |
| F 18 | 23 26 | 25 27 | 4 8 | 24 12 | 1 1 | 15 56 | 3 15 | 14 44 | 0 42 | 5 55 | 1 12 | 8 23 | 2 6 | 8 19 | 0 46 | 19 41 | 0 10 | 19 26 | 4 0 | 4 17 | 4 6 | 23 44 | 2 33 | 4 31 |
| S 19 | 23 27 | 21 28 | 3 18 | 24 24 | 1 6 | 15 50 | 3 22 | 14 56 | 0 42 | 5 54 | 1 12 | 8 21 | 2 6 | 8 18 | 0 46 | 19 40 | 0 10 | 19 27 | 4 0 | 4 20 | 4 8 | 23 46 | 2 33 | 4 31 |
| S 20 | 23 28 | 16 25 | 2 18 | 24 34 | 1 12 | 15 45 | 3 30 | 15 9 | 0 41 | 5 54 | 1 13 | 8 20 | 2 6 | 8 18 | 0 46 | 19 40 | 0 10 | 19 27 | 4 0 | 4 22 | 4 9 | 23 48 | 2 33 | 4 31 |
| M21 | 23 29 | 10 45 | 1 12 | 24 42 | 1 17 | 15 42 | 3 36 | 15 21 | 0 41 | 5 53 | 1 13 | 8 18 | 2 6 | 8 17 | 0 46 | 19 39 | 0 10 | 19 27 | 4 0 | 4 23 | 4 10 | 23 50 | 2 33 | 4 30 |
| T 22 | 23 29 | 4 49 | 0 5 | 24 50 | 1 22 | 15 39 | 3 43 | 15 33 | 0 40 | 5 52 | 1 13 | 8 17 | 2 5 | 8 16 | 0 46 | 19 39 | 0 10 | 19 27 | 4 0 | 4 23 | 4 11 | 23 52 | 2 32 | 4 30 |
| W23 | 23 29 | 1s 7 | 1s 1 | 24 56 | 1 27 | 15 37 | 3 48 | 15 45 | 0 40 | 5 52 | 1 13 | 8 15 | 2 5 | 8 16 | 0 46 | 19 39 | 0 10 | 19 27 | 4 0 | 4 23 | 4 13 | 23 54 | 2 32 | 4 30 |
| T 24 | 23 28 | 6 53 | 2 2 | 25 1 | 1 32 | 15 36 | 3 54 | 15 57 | 0 39 | 5 51 | 1 14 | 8 14 | 2 5 | 8 15 | 0 46 | 19 38 | 0 10 | 19 27 | 4 0 | 4 23 | 4 14 | 23 56 | 2 32 | 4 29 |
| F 25 | 23 26 | 12 18 | 2 57 | 25 4 | 1 36 | 15 36 | 3 59 | 16 9 | 0 39 | 5 51 | 1 14 | 8 12 | 2 5 | 8 14 | 0 45 | 19 38 | 0 10 | 19 27 | 4 0 | 4 24 | 4 15 | 23 58 | 2 31 | 4 29 |
| S 26 | 23 25 | 17 13 | 3 44 | 25 6 | 1 40 | 15 37 | 4 3 | 16 20 | 0 38 | 5 50 | 1 14 | 8 10 | 2 5 | 8 14 | 0 45 | 19 37 | 0 10 | 19 27 | 4 0 | 4 26 | 4 16 | 24 0 | 2 31 | 4 29 |
| S 27 | 23 22 | 21 28 | 4 20 | 25 6 | 1 44 | 15 38 | 4 7 | 16 32 | 0 38 | 5 50 | 1 14 | 8 9 | 2 5 | 8 13 | 0 45 | 19 37 | 0 10 | 19 27 | 4 0 | 4 29 | 4 18 | 24 2 | 2 30 | 4 29 |
| M28 | 23 20 | 24 52 | 4 46 | 25 5 | 1 48 | 15 40 | 4 11 | 16 43 | 0 37 | 5 50 | 1 15 | 8 7 | 2 4 | 8 12 | 0 45 | 19 36 | 0 10 | 19 27 | 4 0 | 4 33 | 4 19 | 24 4 | 2 30 | 4 28 |
| T 29 | 23 16 | 27 13 | 4 59 | 25 3 | 1 51 | 15 43 | 4 15 | 16 55 | 0 37 | 5 50 | 1 15 | 8 5 | 2 4 | 8 11 | 0 45 | 19 36 | 0 10 | 19 27 | 4 0 | 4 38 | 4 20 | 24 6 | 2 29 | 4 28 |
| W30 | 23 13 | 28 20 | 4 59 | 24 59 | 1 54 | 15 46 | 4 18 | 17 6 | 0 36 | 5 50 | 1 15 | 8 3 | 2 4 | 8 11 | 0 45 | 19 35 | 0 10 | 19 27 | 4 0 | 4 43 | 4 21 | 24 7 | 2 29 | 4 28 |
| T 31 | 23s 9 | 28s 6 | 4s46 | 24s53 | 1s57 | 15s50 | 4n20 | 17s17 | 0n36 | 5n50 | 1n16 | 8s 1 | 2s 4 | 8s10 | 0s45 | 19s35 | 0n10 | 19n28 | 4s 0 | 4s48 | 4s23 | 24s 9 | 2s28 | 4n27 |

Julian Day Number = 2331714.5, Delta T = 28.52 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'39, Lahiri = 19°16'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## JANUARY 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 41 37 | 10♉30'43 | 18♉33 | 13♉40 | 0♐ 1 | 20♏58 | 18♍14 | 14♓34 | 11♓ 0 | 2♒ 5 | 2°R58 | 17°R39 | 18♓54 | 27♏ 5 | 13♓18 | F 1 |
| S 2 | 6 45 34 | 11°31'54 | 1♒ 1 | 15°18 | 0°35 | 21°37 | 18°14 | 14°38 | 11° 2 | 2° 7 | 2♋56 | 17♓29 | 18°51 | 27°11 | 13°20 | S 2 |
| S 3 | 6 49 30 | 12°33'06 | 13°38 | 16°57 | 1°11 | 22°17 | 18°R14 | 14°43 | 11° 5 | 2° 9 | 2°55 | 17°21 | 18°48 | 27°18 | 13°22 | S 3 |
| M 4 | 6 53 27 | 13°34'17 | 26°25 | 18°36 | 1°47 | 22°56 | 18°14 | 14°48 | 11° 7 | 2°11 | 2°54 | 17°16 | 18°45 | 27°25 | 13°24 | M 4 |
| T 5 | 6 57 23 | 14°35'27 | 9♓24 | 20°16 | 2°25 | 23°36 | 18°14 | 14°53 | 11° 9 | 2°13 | 2°53 | 17°14 | 18°41 | 27°32 | 13°27 | T 5 |
| W 6 | 7 1 20 | 15°36'37 | 22°37 | 21°55 | 3° 5 | 24°15 | 18°13 | 14°57 | 11°11 | 2°16 | 2°51 | 17°D14 | 18°38 | 27°38 | 13°29 | W 6 |
| T 7 | 7 5 16 | 16°37'46 | 6♈ 5 | 23°36 | 3°45 | 24°54 | 18°12 | 15° 2 | 11°13 | 2°18 | 2°50 | 17°15 | 18°35 | 27°45 | 13°31 | T 7 |
| F 8 | 7 9 13 | 17°38'55 | 19°49 | 25°16 | 4°27 | 25°34 | 18°11 | 15° 7 | 11°16 | 2°20 | 2°49 | 17°R15 | 18°32 | 27°52 | 13°34 | F 8 |
| S 9 | 7 13 9 | 18°40'03 | 3♉52 | 26°57 | 5°10 | 26°13 | 18°10 | 15°13 | 11°18 | 2°22 | 2°48 | 17°14 | 18°29 | 27°58 | 13°36 | S 9 |
| S 10 | 7 17 6 | 19°41'10 | 18°13 | 28°38 | 5°53 | 26°53 | 18° 9 | 15°18 | 11°21 | 2°25 | 2°47 | 17°11 | 18°26 | 28° 5 | 13°39 | S 10 |
| M11 | 7 21 3 | 20°42'16 | 2♊48 | 0♒19 | 6°38 | 27°32 | 18° 8 | 15°23 | 11°23 | 2°27 | 2°46 | 17° 5 | 18°22 | 28°12 | 13°41 | M11 |
| T 12 | 7 24 59 | 21°43'22 | 17°35 | 2° 0 | 7°24 | 28°12 | 18° 6 | 15°28 | 11°25 | 2°29 | 2°44 | 16°57 | 18°19 | 28°19 | 13°44 | T 12 |
| W13 | 7 28 56 | 22°44'27 | 2♋24 | 3°42 | 8°11 | 28°51 | 18° 4 | 15°34 | 11°28 | 2°31 | 2°43 | 16°49 | 18°16 | 28°25 | 13°47 | W13 |
| T 14 | 7 32 52 | 23°45'32 | 17° 8 | 5°23 | 8°59 | 29°31 | 18° 2 | 15°39 | 11°31 | 2°34 | 2°42 | 16°40 | 18°13 | 28°32 | 13°49 | T 14 |
| F 15 | 7 36 49 | 24°46'36 | 1♌40 | 7° 3 | 9°47 | 0♐10 | 18° 0 | 15°45 | 11°33 | 2°36 | 2°41 | 16°32 | 18°10 | 28°39 | 13°52 | F 15 |
| S 16 | 7 40 45 | 25°47'39 | 15°51 | 8°44 | 10°37 | 0°50 | 17°57 | 15°50 | 11°36 | 2°38 | 2°40 | 16°26 | 18° 7 | 28°45 | 13°55 | S 16 |
| S 17 | 7 44 42 | 26°48'41 | 29°38 | 10°24 | 11°27 | 1°29 | 17°55 | 15°56 | 11°38 | 2°40 | 2°39 | 16°22 | 18° 3 | 28°52 | 13°58 | S 17 |
| M18 | 7 48 39 | 27°49'43 | 12♍59 | 12° 2 | 12°18 | 2° 9 | 17°52 | 16° 2 | 11°41 | 2°43 | 2°38 | 16°D21 | 18° 0 | 28°59 | 14° 0 | M18 |
| T 19 | 7 52 35 | 28°50'45 | 25°54 | 13°40 | 13°10 | 2°48 | 17°49 | 16° 7 | 11°44 | 2°45 | 2°37 | 16°21 | 17°57 | 29° 6 | 14° 3 | T 19 |
| W20 | 7 56 32 | 29°51'46 | 8♎28 | 15°16 | 14° 2 | 3°28 | 17°46 | 16°13 | 11°46 | 2°47 | 2°36 | 16°23 | 17°54 | 29°12 | 14° 6 | W20 |
| T 21 | 8 0 28 | 0♒52'46 | 20°43 | 16°51 | 14°55 | 4° 7 | 17°42 | 16°19 | 11°49 | 2°49 | 2°34 | 16°24 | 17°51 | 29°19 | 14° 9 | T 21 |
| F 22 | 8 4 25 | 1°53'45 | 2♏45 | 18°23 | 15°49 | 4°47 | 17°39 | 16°25 | 11°52 | 2°52 | 2°33 | 16°R24 | 17°47 | 29°26 | 14°12 | F 22 |
| S 23 | 8 8 21 | 2°54'45 | 14°39 | 19°53 | 16°43 | 5°27 | 17°35 | 16°31 | 11°55 | 2°54 | 2°32 | 16°24 | 17°44 | 29°32 | 14°15 | S 23 |
| S 24 | 8 12 18 | 3°55'43 | 26°29 | 21°19 | 17°39 | 6° 6 | 17°31 | 16°37 | 11°58 | 2°56 | 2°31 | 16°21 | 17°41 | 29°39 | 14°18 | S 24 |
| M25 | 8 16 14 | 4°56'41 | 8♐22 | 22°41 | 18°34 | 6°46 | 17°27 | 16°43 | 12° 1 | 2°59 | 2°30 | 16°16 | 17°38 | 29°46 | 14°21 | M25 |
| T 26 | 8 20 11 | 5°57'38 | 20°20 | 23°59 | 19°30 | 7°25 | 17°23 | 16°50 | 12° 4 | 3° 1 | 2°29 | 16°10 | 17°35 | 29°53 | 14°24 | T 26 |
| W27 | 8 24 8 | 6°58'34 | 2♑27 | 25°12 | 20°27 | 8° 5 | 17°18 | 16°56 | 12° 6 | 3° 3 | 2°28 | 16° 3 | 17°32 | 29°59 | 14°28 | W27 |
| T 28 | 8 28 4 | 7°59'29 | 14°45 | 26°18 | 21°25 | 8°45 | 17°14 | 17° 2 | 12° 9 | 3° 5 | 2°27 | 15°55 | 17°28 | 0♐ 6 | 14°31 | T 28 |
| F 29 | 8 32 1 | 9° 0'24 | 27°15 | 27°18 | 22°22 | 9°24 | 17° 9 | 17° 8 | 12°12 | 3° 8 | 2°26 | 15°48 | 17°25 | 0°13 | 14°34 | F 29 |
| S 30 | 8 35 57 | 10° 1'17 | 10♒ 0 | 28°10 | 23°21 | 10° 4 | 17° 4 | 17°15 | 12°15 | 3°10 | 2°25 | 15°43 | 17°22 | 0°19 | 14°37 | S 30 |
| S 31 | 8 39 54 | 11♒ 2'09 | 22♒57 | 28♒54 | 24♐19 | 10♐43 | 16♍59 | 17♓21 | 12♓18 | 3♒12 | 2♋25 | 15♓39 | 17♓19 | 0♐26 | 14♓41 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s 4 | 26s28 | 4s19 | 24s46 | 2s 0 | 15s55 | 4n23 | 17s28 | 0n35 | 5n50 | 1n16 | 7s59 | 2s 4 | 8s 9 | 0s45 | 19s34 | 0n10 | 19n28 | 4s 0 | 4s53 | 4s24 | 24s11 | 2s28 | 4n27 |
| S 2 | 22 59 | 23 32 | 3 40 | 24 37 | 2 2 | 16 0 | 4 25 | 17 39 | 0 35 | 5 50 | 1 16 | 7 58 | 2 4 | 8 8 | 0 45 | 19 34 | 0 10 | 19 28 | 3 59 | 4 57 | 4 25 | 24 13 | 2 27 | 4 27 |
| S 3 | 22 53 | 19 27 | 2 49 | 24 27 | 2 4 | 16 5 | 4 26 | 17 49 | 0 34 | 5 50 | 1 16 | 7 56 | 2 4 | 8 7 | 0 45 | 19 33 | 0 10 | 19 28 | 3 59 | 5 0 | 4 26 | 24 15 | 2 27 | 4 27 |
| M 4 | 22 47 | 14 26 | 1 48 | 24 15 | 2 5 | 16 11 | 4 28 | 18 0 | 0 34 | 5 50 | 1 17 | 7 54 | 2 3 | 8 6 | 0 45 | 19 33 | 0 10 | 19 28 | 3 59 | 5 2 | 4 28 | 24 17 | 2 26 | 4 26 |
| T 5 | 22 41 | 8 42 | 0 42 | 24 2 | 2 6 | 16 17 | 4 29 | 18 10 | 0 33 | 5 51 | 1 17 | 7 52 | 2 3 | 8 6 | 0 45 | 19 33 | 0 10 | 19 28 | 3 59 | 5 3 | 4 29 | 24 19 | 2 25 | 4 26 |
| W 6 | 22 34 | 2 30 | 0n29 | 23 47 | 2 7 | 16 24 | 4 30 | 18 21 | 0 32 | 5 51 | 1 17 | 7 50 | 2 3 | 8 5 | 0 45 | 19 32 | 0 10 | 19 28 | 3 59 | 5 3 | 4 30 | 24 21 | 2 25 | 4 26 |
| T 7 | 22 27 | 3n56 | 1 39 | 23 30 | 2 7 | 16 31 | 4 30 | 18 31 | 0 32 | 5 52 | 1 18 | 7 48 | 2 3 | 8 4 | 0 45 | 19 32 | 0 10 | 19 28 | 3 59 | 5 3 | 4 31 | 24 23 | 2 24 | 4 25 |
| F 8 | 22 19 | 10 18 | 2 45 | 23 12 | 2 6 | 16 38 | 4 31 | 18 41 | 0 31 | 5 52 | 1 18 | 7 46 | 2 3 | 8 3 | 0 45 | 19 31 | 0 10 | 19 28 | 3 59 | 5 3 | 4 33 | 24 25 | 2 23 | 4 25 |
| S 9 | 22 11 | 16 19 | 3 42 | 22 52 | 2 6 | 16 46 | 4 31 | 18 51 | 0 31 | 5 53 | 1 18 | 7 43 | 2 3 | 8 2 | 0 45 | 19 31 | 0 10 | 19 28 | 3 59 | 5 3 | 4 34 | 24 26 | 2 23 | 4 25 |
| S 10 | 22 2 | 21 34 | 4 27 | 22 30 | 2 4 | 16 53 | 4 31 | 19 1 | 0 30 | 5 54 | 1 18 | 7 41 | 2 3 | 8 1 | 0 45 | 19 30 | 0 10 | 19 29 | 3 59 | 5 4 | 4 35 | 24 28 | 2 22 | 4 25 |
| M11 | 21 53 | 25 35 | 4 56 | 22 7 | 2 3 | 17 1 | 4 30 | 19 10 | 0 29 | 5 55 | 1 19 | 7 39 | 2 2 | 8 0 | 0 45 | 19 30 | 0 10 | 19 29 | 3 59 | 5 7 | 4 36 | 24 30 | 2 21 | 4 24 |
| T 12 | 21 44 | 27 58 | 5 5 | 21 42 | 2 0 | 17 9 | 4 30 | 19 20 | 0 29 | 5 56 | 1 19 | 7 37 | 2 2 | 7 59 | 0 45 | 19 29 | 0 10 | 19 29 | 3 59 | 5 10 | 4 38 | 24 32 | 2 21 | 4 24 |
| W13 | 21 34 | 28 22 | 4 54 | 21 16 | 1 57 | 17 17 | 4 29 | 19 29 | 0 28 | 5 57 | 1 19 | 7 35 | 2 2 | 7 58 | 0 45 | 19 29 | 0 10 | 19 29 | 3 59 | 5 13 | 4 39 | 24 34 | 2 20 | 4 24 |
| T 14 | 21 23 | 26 44 | 4 23 | 20 48 | 1 54 | 17 26 | 4 28 | 19 38 | 0 28 | 5 58 | 1 20 | 7 33 | 2 2 | 7 57 | 0 45 | 19 28 | 0 10 | 19 29 | 3 58 | 5 16 | 4 40 | 24 36 | 2 19 | 4 24 |
| F 15 | 21 13 | 23 20 | 3 36 | 20 19 | 1 50 | 17 34 | 4 27 | 19 47 | 0 27 | 5 59 | 1 20 | 7 30 | 2 2 | 7 56 | 0 45 | 19 28 | 0 10 | 19 29 | 3 58 | 5 20 | 4 41 | 24 37 | 2 18 | 4 23 |
| S 16 | 21 2 | 18 36 | 2 36 | 19 48 | 1 45 | 17 42 | 4 25 | 19 56 | 0 26 | 6 0 | 1 20 | 7 28 | 2 2 | 7 55 | 0 45 | 19 27 | 0 10 | 19 29 | 3 58 | 5 22 | 4 43 | 24 39 | 2 17 | 4 23 |
| S 17 | 20 50 | 13 0 | 1 29 | 19 16 | 1 39 | 17 51 | 4 24 | 20 5 | 0 26 | 6 1 | 1 20 | 7 26 | 2 2 | 7 54 | 0 45 | 19 27 | 0 10 | 19 29 | 3 58 | 5 23 | 4 44 | 24 41 | 2 17 | 4 23 |
| M18 | 20 38 | 6 59 | 0 18 | 18 42 | 1 33 | 17 59 | 4 22 | 20 13 | 0 25 | 6 3 | 1 21 | 7 23 | 2 2 | 7 53 | 0 45 | 19 26 | 0 10 | 19 29 | 3 58 | 5 24 | 4 45 | 24 43 | 2 16 | 4 23 |
| T 19 | 20 26 | 0 51 | 0s51 | 18 8 | 1 26 | 18 7 | 4 20 | 20 22 | 0 24 | 6 4 | 1 21 | 7 21 | 2 2 | 7 52 | 0 45 | 19 26 | 0 10 | 19 30 | 3 58 | 5 24 | 4 46 | 24 45 | 2 15 | 4 22 |
| W20 | 20 13 | 5s 9 | 1 56 | 17 32 | 1 18 | 18 16 | 4 18 | 20 30 | 0 24 | 6 5 | 1 21 | 7 19 | 2 1 | 7 51 | 0 45 | 19 25 | 0 10 | 19 30 | 3 58 | 5 23 | 4 48 | 24 46 | 2 14 | 4 22 |
| T 21 | 20 0 | 10 48 | 2 55 | 16 55 | 1 10 | 18 24 | 4 15 | 20 38 | 0 23 | 6 7 | 1 21 | 7 16 | 2 1 | 7 50 | 0 45 | 19 25 | 0 10 | 19 30 | 3 58 | 5 23 | 4 49 | 24 48 | 2 13 | 4 22 |
| F 22 | 19 47 | 15 57 | 3 44 | 16 18 | 1 0 | 18 32 | 4 13 | 20 46 | 0 22 | 6 9 | 1 22 | 7 14 | 2 1 | 7 49 | 0 45 | 19 24 | 0 10 | 19 30 | 3 58 | 5 22 | 4 50 | 24 50 | 2 12 | 4 22 |
| S 23 | 19 33 | 20 27 | 4 23 | 15 40 | 0 50 | 18 40 | 4 10 | 20 54 | 0 22 | 6 10 | 1 22 | 7 11 | 2 1 | 7 48 | 0 45 | 19 23 | 0 10 | 19 30 | 3 58 | 5 23 | 4 51 | 24 52 | 2 11 | 4 22 |
| S 24 | 19 18 | 24 7 | 4 51 | 15 2 | 0 39 | 18 48 | 4 8 | 21 1 | 0 21 | 6 12 | 1 22 | 7 9 | 2 1 | 7 46 | 0 45 | 19 23 | 0 10 | 19 30 | 3 57 | 5 24 | 4 53 | 24 53 | 2 10 | 4 21 |
| M25 | 19 4 | 26 47 | 5 6 | 14 24 | 0 27 | 18 55 | 4 5 | 21 9 | 0 20 | 6 14 | 1 22 | 7 6 | 2 1 | 7 45 | 0 45 | 19 22 | 0 10 | 19 30 | 3 57 | 5 26 | 4 54 | 24 55 | 2 9 | 4 21 |
| T 26 | 18 49 | 28 15 | 5 8 | 13 47 | 0 14 | 19 3 | 4 2 | 21 16 | 0 20 | 6 16 | 1 23 | 7 4 | 2 1 | 7 44 | 0 45 | 19 22 | 0 10 | 19 30 | 3 57 | 5 28 | 4 55 | 24 57 | 2 8 | 4 21 |
| W27 | 18 34 | 28 24 | 4 57 | 13 9 | 0 1 | 19 10 | 3 59 | 21 23 | 0 19 | 6 18 | 1 23 | 7 1 | 2 1 | 7 43 | 0 45 | 19 21 | 0 10 | 19 31 | 3 57 | 5 31 | 4 56 | 24 59 | 2 7 | 4 21 |
| T 28 | 18 18 | 27 10 | 4 31 | 12 33 | 0n14 | 19 17 | 3 56 | 21 30 | 0 18 | 6 20 | 1 23 | 6 59 | 2 1 | 7 42 | 0 44 | 19 21 | 0 10 | 19 31 | 3 57 | 5 34 | 4 58 | 25 0 | 2 6 | 4 21 |
| F 29 | 18 2 | 24 33 | 3 53 | 11 59 | 0 29 | 19 24 | 3 52 | 21 37 | 0 17 | 6 22 | 1 23 | 6 56 | 2 1 | 7 41 | 0 44 | 19 20 | 0 10 | 19 31 | 3 57 | 5 37 | 4 59 | 25 2 | 2 5 | 4 20 |
| S 30 | 17 46 | 20 41 | 3 2 | 11 26 | 0 45 | 19 30 | 3 49 | 21 44 | 0 17 | 6 24 | 1 24 | 6 54 | 2 0 | 7 40 | 0 44 | 19 20 | 0 10 | 19 31 | 3 57 | 5 39 | 5 0 | 25 4 | 2 4 | 4 20 |
| S 31 | 17s30 | 15s47 | 2s 0 | 10s56 | 1n 1 | 19s36 | 3n46 | 21s50 | 0n16 | 6n26 | 1n24 | 6s51 | 2s 0 | 7s38 | 0s44 | 19s19 | 0n10 | 19n31 | 3s57 | 5s40 | 5s 1 | 25s 6 | 2s 3 | 4n20 |

Julian Day Number = 2331745.5, Delta T = 28.47 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'43, Lahiri = 19°16'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## FEBRUARY 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 43 50 | 12♒ 3'00 | 6♓ 6 | 29♒29 | 25♐19 | 11♐23 | 16°R54 | 17♓28 | 12♓22 | 3♒14 | 2°R24 | 15°R37 | 17♓16 | 0♐33 | 14♓44 | M 1 |
| T 2 | 8 47 47 | 13° 3'49 | 19°28 | 29°54 | 26°18 | 12° 3 | 16♍49 | 17°34 | 12°25 | 3°17 | 2♋23 | 15°D36 | 17°13 | 0°40 | 14°47 | T 2 |
| W 3 | 8 51 43 | 14° 4'37 | 3♈ 1 | 0♓ 8 | 27°18 | 12°42 | 16°43 | 17°41 | 12°28 | 3°19 | 2°22 | 15♓37 | 17° 9 | 0°46 | 14°50 | W 3 |
| T 4 | 8 55 40 | 15° 5'23 | 16°44 | 0°R12 | 28°19 | 13°22 | 16°37 | 17°48 | 12°31 | 3°21 | 2°21 | 15°39 | 17° 6 | 0°53 | 14°54 | T 4 |
| F 5 | 8 59 37 | 16° 6'08 | 0♉37 | 0° 5 | 29°19 | 14° 2 | 16°32 | 17°54 | 12°34 | 3°23 | 2°20 | 15°40 | 17° 3 | 1° 0 | 14°57 | F 5 |
| S 6 | 9 3 33 | 17° 6'52 | 14°39 | 29♒48 | 0♑20 | 14°41 | 16°26 | 18° 1 | 12°37 | 3°26 | 2°19 | 15°R41 | 17° 0 | 1° 6 | 15° 1 | S 6 |
| S 7 | 9 7 30 | 18° 7'33 | 28°50 | 29°20 | 1°22 | 15°21 | 16°20 | 18° 8 | 12°40 | 3°28 | 2°18 | 15°41 | 16°57 | 1°13 | 15° 4 | S 7 |
| M 8 | 9 11 26 | 19° 8'13 | 13♊ 7 | 28°42 | 2°24 | 16° 0 | 16°14 | 18°14 | 12°44 | 3°30 | 2°18 | 15°39 | 16°53 | 1°20 | 15° 8 | M 8 |
| T 9 | 9 15 23 | 20° 8'52 | 27°28 | 27°55 | 3°26 | 16°40 | 16° 7 | 18°21 | 12°47 | 3°32 | 2°17 | 15°36 | 16°50 | 1°27 | 15°11 | T 9 |
| W10 | 9 19 19 | 21° 9'28 | 11♋48 | 27° 1 | 4°28 | 17°20 | 16° 1 | 18°28 | 12°50 | 3°35 | 2°16 | 15°33 | 16°47 | 1°33 | 15°15 | W10 |
| T 11 | 9 23 16 | 22°10'03 | 26° 2 | 26° 1 | 5°31 | 17°59 | 15°54 | 18°35 | 12°53 | 3°37 | 2°15 | 15°29 | 16°44 | 1°40 | 15°18 | T 11 |
| F 12 | 9 27 12 | 23°10'36 | 10♌ 7 | 24°56 | 6°34 | 18°39 | 15°48 | 18°42 | 12°57 | 3°39 | 2°15 | 15°26 | 16°41 | 1°47 | 15°22 | F 12 |
| S 13 | 9 31 9 | 24°11'08 | 23°57 | 23°49 | 7°38 | 19°18 | 15°41 | 18°49 | 13° 0 | 3°41 | 2°14 | 15°24 | 16°38 | 1°54 | 15°25 | S 13 |
| S 14 | 9 35 6 | 25°11'38 | 7♍30 | 22°41 | 8°42 | 19°58 | 15°34 | 18°56 | 13° 3 | 3°43 | 2°13 | 15°22 | 16°34 | 2° 0 | 15°29 | S 14 |
| M15 | 9 39 2 | 26°12'06 | 20°43 | 21°33 | 9°45 | 20°38 | 15°27 | 19° 3 | 13° 6 | 3°45 | 2°13 | 15°D22 | 16°31 | 2° 7 | 15°32 | M15 |
| T 16 | 9 42 59 | 27°12'33 | 3♎35 | 20°29 | 10°50 | 21°17 | 15°20 | 19°10 | 13°10 | 3°48 | 2°12 | 15°23 | 16°28 | 2°14 | 15°36 | T 16 |
| W17 | 9 46 55 | 28°12'58 | 16° 9 | 19°28 | 11°54 | 21°57 | 15°13 | 19°17 | 13°13 | 3°50 | 2°11 | 15°24 | 16°25 | 2°20 | 15°40 | W17 |
| T 18 | 9 50 52 | 29°13'22 | 28°27 | 18°32 | 12°59 | 22°37 | 15° 6 | 19°24 | 13°17 | 3°52 | 2°11 | 15°26 | 16°22 | 2°27 | 15°43 | T 18 |
| F 19 | 9 54 48 | 0♓13'45 | 10♏32 | 17°42 | 14° 4 | 23°16 | 14°58 | 19°31 | 13°20 | 3°54 | 2°10 | 15°27 | 16°18 | 2°34 | 15°47 | F 19 |
| S 20 | 9 58 45 | 1°14'06 | 22°28 | 16°59 | 15° 9 | 23°56 | 14°51 | 19°39 | 13°23 | 3°56 | 2°10 | 15°28 | 16°15 | 2°41 | 15°51 | S 20 |
| S 21 | 10 2 41 | 2°14'26 | 4♐21 | 16°23 | 16°15 | 24°36 | 14°43 | 19°46 | 13°27 | 3°58 | 2° 9 | 15°R28 | 16°12 | 2°47 | 15°54 | S 21 |
| M22 | 10 6 38 | 3°14'45 | 16°15 | 15°54 | 17°20 | 25°15 | 14°36 | 19°53 | 13°30 | 4° 0 | 2° 9 | 15°28 | 16° 9 | 2°54 | 15°58 | M22 |
| T 23 | 10 10 35 | 4°15'01 | 28°14 | 15°32 | 18°26 | 25°55 | 14°28 | 20° 0 | 13°33 | 4° 2 | 2° 8 | 15°27 | 16° 6 | 3° 1 | 16° 2 | T 23 |
| W24 | 10 14 31 | 5°15'17 | 10♑23 | 15°17 | 19°32 | 26°35 | 14°21 | 20° 8 | 13°37 | 4° 4 | 2° 8 | 15°26 | 16° 3 | 3° 7 | 16° 5 | W24 |
| T 25 | 10 18 28 | 6°15'31 | 22°45 | 15°10 | 20°38 | 27°14 | 14°13 | 20°15 | 13°40 | 4° 6 | 2° 7 | 15°24 | 15°59 | 3°14 | 16° 9 | T 25 |
| F 26 | 10 22 24 | 7°15'43 | 5♒24 | 15°D 9 | 21°45 | 27°54 | 14° 5 | 20°22 | 13°44 | 4° 8 | 2° 7 | 15°23 | 15°56 | 3°21 | 16°13 | F 26 |
| S 27 | 10 26 21 | 8°15'53 | 18°21 | 15°14 | 22°51 | 28°33 | 13°58 | 20°30 | 13°47 | 4°10 | 2° 6 | 15°22 | 15°53 | 3°28 | 16°17 | S 27 |
| S 28 | 10 30 17 | 9°16'02 | 1♓36 | 15°26 | 23°58 | 29°13 | 13°50 | 20°37 | 13°51 | 4°12 | 2° 6 | 15°22 | 15°50 | 3°34 | 16°20 | S 28 |
| M29 | 10 34 14 | 10♓16'09 | 15♓ 8 | 15♒43 | 25♑ 5 | 29♐53 | 13♍42 | 20♓44 | 13♓54 | 4♒14 | 2♋ 6 | 15°D21 | 15♓47 | 3♐41 | 16♓24 | M29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s13 | 10s 5 | 0s52 | 10s28 | 1n17 | 19s42 | 3n42 | 21s56 | 0n15 | 6n28 | 1n24 | 6s48 | 2s 0 | 7s37 | 0s44 | 19s19 | 0n10 | 19n31 | 3s57 | 5s41 | 5s 2 | 25s 7 | 2s 2 | 4n20 |
| T 2 | 16 56 | 3 51 | 0n21 | 10 3 | 1 34 | 19 48 | 3 38 | 22 2 | 0 14 | 6 31 | 1 24 | 6 46 | 2 0 | 7 36 | 0 44 | 19 18 | 0 9 | 19 31 | 3 56 | 5 41 | 5 4 | 25 9 | 2 1 | 4 20 |
| W 3 | 16 38 | 2n38 | 1 34 | 9 42 | 1 51 | 19 53 | 3 35 | 22 8 | 0 14 | 6 33 | 1 25 | 6 43 | 2 0 | 7 35 | 0 44 | 19 18 | 0 9 | 19 31 | 3 56 | 5 41 | 5 5 | 25 11 | 2 0 | 4 19 |
| T 4 | 16 20 | 9 5 | 2 42 | 9 25 | 2 8 | 19 58 | 3 31 | 22 14 | 0 13 | 6 35 | 1 25 | 6 41 | 2 0 | 7 34 | 0 44 | 19 17 | 0 9 | 19 32 | 3 56 | 5 40 | 5 6 | 25 12 | 1 58 | 4 19 |
| F 5 | 16 2 | 15 10 | 3 42 | 9 13 | 2 24 | 20 2 | 3 27 | 22 20 | 0 12 | 6 38 | 1 25 | 6 38 | 2 0 | 7 32 | 0 44 | 19 17 | 0 9 | 19 32 | 3 56 | 5 40 | 5 7 | 25 14 | 1 57 | 4 19 |
| S 6 | 15 44 | 20 32 | 4 29 | 9 4 | 2 40 | 20 6 | 3 23 | 22 25 | 0 11 | 6 40 | 1 25 | 6 35 | 2 0 | 7 31 | 0 44 | 19 16 | 0 9 | 19 32 | 3 56 | 5 39 | 5 9 | 25 16 | 1 56 | 4 19 |
| S 7 | 15 26 | 24 49 | 5 0 | 9 1 | 2 54 | 20 10 | 3 19 | 22 30 | 0 10 | 6 43 | 1 25 | 6 32 | 2 0 | 7 30 | 0 44 | 19 16 | 0 9 | 19 32 | 3 56 | 5 39 | 5 10 | 25 17 | 1 55 | 4 19 |
| M 8 | 15 7 | 27 35 | 5 13 | 9 1 | 3 7 | 20 13 | 3 15 | 22 35 | 0 10 | 6 46 | 1 26 | 6 30 | 2 0 | 7 29 | 0 44 | 19 15 | 0 9 | 19 32 | 3 56 | 5 40 | 5 11 | 25 19 | 1 54 | 4 19 |
| T 9 | 14 48 | 28 34 | 5 7 | 9 7 | 3 19 | 20 16 | 3 10 | 22 40 | 0 9 | 6 48 | 1 26 | 6 27 | 2 0 | 7 27 | 0 44 | 19 15 | 0 9 | 19 32 | 3 56 | 5 41 | 5 12 | 25 21 | 1 53 | 4 18 |
| W10 | 14 28 | 27 38 | 4 41 | 9 16 | 3 28 | 20 19 | 3 6 | 22 45 | 0 8 | 6 51 | 1 26 | 6 24 | 2 0 | 7 26 | 0 44 | 19 14 | 0 9 | 19 32 | 3 56 | 5 43 | 5 14 | 25 22 | 1 51 | 4 18 |
| T 11 | 14 9 | 24 53 | 3 59 | 9 29 | 3 36 | 20 21 | 3 2 | 22 49 | 0 7 | 6 54 | 1 26 | 6 22 | 2 0 | 7 25 | 0 44 | 19 14 | 0 9 | 19 33 | 3 55 | 5 44 | 5 15 | 25 24 | 1 50 | 4 18 |
| F 12 | 13 49 | 20 40 | 3 2 | 9 46 | 3 41 | 20 22 | 2 57 | 22 54 | 0 6 | 6 56 | 1 26 | 6 19 | 2 0 | 7 24 | 0 44 | 19 13 | 0 9 | 19 33 | 3 55 | 5 45 | 5 16 | 25 25 | 1 49 | 4 18 |
| S 13 | 13 29 | 15 22 | 1 55 | 10 5 | 3 44 | 20 23 | 2 53 | 22 58 | 0 5 | 6 59 | 1 27 | 6 16 | 2 0 | 7 22 | 0 44 | 19 13 | 0 9 | 19 33 | 3 55 | 5 46 | 5 17 | 25 27 | 1 48 | 4 18 |
| S 14 | 13 9 | 9 27 | 0 43 | 10 27 | 3 44 | 20 24 | 2 49 | 23 2 | 0 4 | 7 2 | 1 27 | 6 13 | 2 0 | 7 21 | 0 44 | 19 12 | 0 9 | 19 33 | 3 55 | 5 47 | 5 19 | 25 29 | 1 46 | 4 18 |
| M15 | 12 48 | 3 14 | 0s29 | 10 50 | 3 43 | 20 24 | 2 44 | 23 6 | 0 4 | 7 5 | 1 27 | 6 10 | 2 0 | 7 20 | 0 44 | 19 12 | 0 9 | 19 33 | 3 55 | 5 47 | 5 20 | 25 30 | 1 45 | 4 17 |
| T 16 | 12 28 | 2s56 | 1 39 | 11 14 | 3 39 | 20 24 | 2 39 | 23 9 | 0 3 | 7 8 | 1 27 | 6 8 | 1 59 | 7 18 | 0 44 | 19 11 | 0 9 | 19 33 | 3 55 | 5 46 | 5 21 | 25 32 | 1 44 | 4 17 |
| W17 | 12 7 | 8 51 | 2 42 | 11 38 | 3 33 | 20 23 | 2 35 | 23 13 | 0 2 | 7 11 | 1 27 | 6 5 | 1 59 | 7 17 | 0 44 | 19 11 | 0 9 | 19 33 | 3 55 | 5 46 | 5 22 | 25 33 | 1 43 | 4 17 |
| T 18 | 11 46 | 14 18 | 3 36 | 12 2 | 3 25 | 20 21 | 2 30 | 23 16 | 0 1 | 7 14 | 1 27 | 6 2 | 1 59 | 7 16 | 0 44 | 19 10 | 0 9 | 19 34 | 3 54 | 5 45 | 5 24 | 25 35 | 1 41 | 4 17 |
| F 19 | 11 25 | 19 7 | 4 19 | 12 26 | 3 16 | 20 20 | 2 26 | 23 19 | 0s 0 | 7 17 | 1 27 | 5 59 | 1 59 | 7 15 | 0 44 | 19 10 | 0 9 | 19 34 | 3 54 | 5 45 | 5 25 | 25 37 | 1 40 | 4 17 |
| S 20 | 11 3 | 23 7 | 4 51 | 12 49 | 3 6 | 20 17 | 2 21 | 23 22 | 0 1 | 7 20 | 1 28 | 5 56 | 1 59 | 7 13 | 0 44 | 19 9 | 0 9 | 19 34 | 3 54 | 5 44 | 5 26 | 25 38 | 1 39 | 4 17 |
| S 21 | 10 42 | 26 8 | 5 10 | 13 11 | 2 55 | 20 14 | 2 16 | 23 24 | 0 2 | 7 23 | 1 28 | 5 53 | 1 59 | 7 12 | 0 44 | 19 9 | 0 9 | 19 34 | 3 54 | 5 44 | 5 27 | 25 40 | 1 37 | 4 17 |
| M22 | 10 20 | 28 1 | 5 16 | 13 31 | 2 42 | 20 11 | 2 12 | 23 27 | 0 3 | 7 26 | 1 28 | 5 50 | 1 59 | 7 11 | 0 44 | 19 8 | 0 9 | 19 34 | 3 54 | 5 44 | 5 28 | 25 41 | 1 36 | 4 17 |
| T 23 | 9 58 | 28 37 | 5 8 | 13 50 | 2 30 | 20 7 | 2 7 | 23 29 | 0 4 | 7 29 | 1 28 | 5 48 | 1 59 | 7 9 | 0 44 | 19 8 | 0 9 | 19 34 | 3 54 | 5 45 | 5 30 | 25 43 | 1 35 | 4 16 |
| W24 | 9 36 | 27 51 | 4 47 | 14 7 | 2 16 | 20 3 | 2 2 | 23 31 | 0 5 | 7 32 | 1 28 | 5 45 | 1 59 | 7 8 | 0 44 | 19 7 | 0 9 | 19 34 | 3 54 | 5 45 | 5 31 | 25 44 | 1 33 | 4 16 |
| T 25 | 9 14 | 25 42 | 4 12 | 14 22 | 2 3 | 19 58 | 1 58 | 23 33 | 0 6 | 7 35 | 1 28 | 5 42 | 1 59 | 7 7 | 0 44 | 19 7 | 0 9 | 19 35 | 3 54 | 5 46 | 5 32 | 25 46 | 1 32 | 4 16 |
| F 26 | 8 52 | 22 15 | 3 24 | 14 35 | 1 49 | 19 52 | 1 53 | 23 35 | 0 7 | 7 38 | 1 28 | 5 39 | 1 59 | 7 5 | 0 44 | 19 7 | 0 9 | 19 35 | 3 53 | 5 46 | 5 33 | 25 47 | 1 31 | 4 16 |
| S 27 | 8 29 | 17 39 | 2 24 | 14 46 | 1 36 | 19 46 | 1 48 | 23 37 | 0 8 | 7 41 | 1 28 | 5 36 | 1 59 | 7 4 | 0 44 | 19 6 | 0 9 | 19 35 | 3 53 | 5 47 | 5 35 | 25 49 | 1 29 | 4 16 |
| S 28 | 8 7 | 12 6 | 1 16 | 14 56 | 1 22 | 19 39 | 1 43 | 23 38 | 0 9 | 7 44 | 1 28 | 5 33 | 1 59 | 7 3 | 0 44 | 19 6 | 0 9 | 19 35 | 3 53 | 5 47 | 5 36 | 25 50 | 1 28 | 4 16 |
| M29 | 7s44 | 5s53 | 0s 1 | 15s 4 | 1n 9 | 19s32 | 1n39 | 23s39 | 0s10 | 7n47 | 1n29 | 5s30 | 1s59 | 7s 1 | 0s44 | 19s 5 | 0n 9 | 19n35 | 3s53 | 5s47 | 5s37 | 25s52 | 1s27 | 4n16 |

Julian Day Number = 2331776.5, Delta T = 28.42 sec
Ecliptic obliquity = 23°29'04, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'47, Lahiri = 19°16'48Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## MARCH 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 38 10 | 11♓16'14 | 28♓57 | 16♒ 5 | 26♑12 | 0♑32 | 13°R34 | 20♓52 | 13♓57 | 4♒16 | 2°R 5 | 15♓22 | 15♓44 | 3♐48 | 16♓28 | T 1 |
| W 2 | 10 42 7 | 12°16'16 | 12♈57 | 16°33 | 27°20 | 1°12 | 13♍26 | 20°59 | 14° 1 | 4°18 | 2♋ 5 | 15°22 | 15°40 | 3°54 | 16°32 | W 2 |
| T 3 | 10 46 4 | 13°16'17 | 27° 7 | 17° 5 | 28°27 | 1°51 | 13°19 | 21° 6 | 14° 4 | 4°20 | 2° 5 | 15°22 | 15°37 | 4° 1 | 16°35 | T 3 |
| F 4 | 10 50 0 | 14°16'16 | 11♉22 | 17°42 | 29°35 | 2°31 | 13°11 | 21°14 | 14° 8 | 4°22 | 2° 4 | 15°22 | 15°34 | 4° 8 | 16°39 | F 4 |
| S 5 | 10 53 57 | 15°16'13 | 25°39 | 18°23 | 0♒42 | 3°11 | 13° 3 | 21°21 | 14°11 | 4°23 | 2° 4 | 15°R22 | 15°31 | 4°15 | 16°43 | S 5 |
| S 6 | 10 57 53 | 16°16'07 | 9♊54 | 19° 7 | 1°50 | 3°50 | 12°55 | 21°29 | 14°15 | 4°25 | 2° 4 | 15°D22 | 15°28 | 4°21 | 16°47 | S 6 |
| M 7 | 11 1 50 | 17°15'59 | 24° 5 | 19°56 | 2°58 | 4°30 | 12°47 | 21°36 | 14°18 | 4°27 | 2° 4 | 15°22 | 15°24 | 4°28 | 16°51 | M 7 |
| T 8 | 11 5 46 | 18°15'49 | 8♋10 | 20°47 | 4° 6 | 5° 9 | 12°39 | 21°43 | 14°21 | 4°29 | 2° 3 | 15°22 | 15°21 | 4°35 | 16°54 | T 8 |
| W 9 | 11 9 43 | 19°15'37 | 22° 6 | 21°42 | 5°14 | 5°49 | 12°32 | 21°51 | 14°25 | 4°31 | 2° 3 | 15°23 | 15°18 | 4°42 | 16°58 | W 9 |
| T 10 | 11 13 39 | 20°15'22 | 5♌53 | 22°39 | 6°23 | 6°28 | 12°24 | 21°58 | 14°28 | 4°32 | 2° 3 | 15°23 | 15°15 | 4°48 | 17° 2 | T 10 |
| F 11 | 11 17 36 | 21°15'05 | 19°28 | 23°39 | 7°31 | 7° 8 | 12°16 | 22° 6 | 14°32 | 4°34 | 2° 3 | 15°24 | 15°12 | 4°55 | 17° 6 | F 11 |
| S 12 | 11 21 33 | 22°14'46 | 2♍51 | 24°42 | 8°40 | 7°47 | 12° 9 | 22°13 | 14°35 | 4°36 | 2° 3 | 15°24 | 15° 9 | 5° 2 | 17° 9 | S 12 |
| S 13 | 11 25 29 | 23°14'25 | 16° 1 | 25°48 | 9°48 | 8°27 | 12° 1 | 22°21 | 14°39 | 4°37 | 2° 3 | 15°R24 | 15° 5 | 5° 8 | 17°13 | S 13 |
| M14 | 11 29 26 | 24°14'02 | 28°56 | 26°55 | 10°57 | 9° 6 | 11°54 | 22°28 | 14°42 | 4°39 | 2° 3 | 15°24 | 15° 2 | 5°15 | 17°17 | M14 |
| T 15 | 11 33 22 | 25°13'36 | 11♎37 | 28° 5 | 12° 6 | 9°46 | 11°46 | 22°35 | 14°45 | 4°41 | 2°D 3 | 15°23 | 14°59 | 5°22 | 17°21 | T 15 |
| W16 | 11 37 19 | 26°13'09 | 24° 4 | 29°17 | 13°15 | 10°25 | 11°39 | 22°43 | 14°49 | 4°42 | 2° 3 | 15°22 | 14°56 | 5°29 | 17°24 | W16 |
| T 17 | 11 41 15 | 27°12'40 | 6♏18 | 0♓31 | 14°24 | 11° 4 | 11°31 | 22°50 | 14°52 | 4°44 | 2° 3 | 15°20 | 14°53 | 5°35 | 17°28 | T 17 |
| F 18 | 11 45 12 | 28°12'09 | 18°23 | 1°47 | 15°33 | 11°44 | 11°24 | 22°58 | 14°56 | 4°45 | 2° 3 | 15°18 | 14°50 | 5°42 | 17°32 | F 18 |
| S 19 | 11 49 8 | 29°11'36 | 0♐20 | 3° 5 | 16°43 | 12°23 | 11°17 | 23° 5 | 14°59 | 4°47 | 2° 3 | 15°17 | 14°46 | 5°49 | 17°35 | S 19 |
| S 20 | 11 53 5 | 0♈11'01 | 12°13 | 4°24 | 17°52 | 13° 3 | 11°10 | 23°13 | 15° 2 | 4°48 | 2° 3 | 15°15 | 14°43 | 5°55 | 17°39 | S 20 |
| M21 | 11 57 1 | 1°10'25 | 24° 6 | 5°45 | 19° 2 | 13°42 | 11° 3 | 23°20 | 15° 6 | 4°50 | 2° 3 | 15°14 | 14°40 | 6° 2 | 17°43 | M21 |
| T 22 | 12 0 58 | 2° 9'47 | 6♑ 4 | 7° 8 | 20°11 | 14°21 | 10°56 | 23°27 | 15° 9 | 4°51 | 2° 3 | 15°D14 | 14°37 | 6° 9 | 17°47 | T 22 |
| W23 | 12 4 55 | 3° 9'07 | 18°12 | 8°33 | 21°21 | 15° 1 | 10°49 | 23°35 | 15°12 | 4°53 | 2° 4 | 15°15 | 14°34 | 6°16 | 17°50 | W23 |
| T 24 | 12 8 51 | 4° 8'25 | 0♒34 | 9°59 | 22°31 | 15°40 | 10°42 | 23°42 | 15°16 | 4°54 | 2° 4 | 15°16 | 14°30 | 6°22 | 17°54 | T 24 |
| F 25 | 12 12 48 | 5° 7'41 | 13°14 | 11°27 | 23°40 | 16°19 | 10°36 | 23°49 | 15°19 | 4°55 | 2° 4 | 15°18 | 14°27 | 6°29 | 17°58 | F 25 |
| S 26 | 12 16 44 | 6° 6'56 | 26°15 | 12°56 | 24°50 | 16°59 | 10°29 | 23°57 | 15°22 | 4°57 | 2° 4 | 15°19 | 14°24 | 6°36 | 18° 1 | S 26 |
| S 27 | 12 20 41 | 7° 6'08 | 9♓40 | 14°27 | 26° 0 | 17°38 | 10°23 | 24° 4 | 15°25 | 4°58 | 2° 4 | 15°R20 | 14°21 | 6°43 | 18° 5 | S 27 |
| M28 | 12 24 37 | 8° 5'19 | 23°29 | 15°59 | 27°10 | 18°17 | 10°17 | 24°11 | 15°29 | 4°59 | 2° 5 | 15°20 | 14°18 | 6°49 | 18° 8 | M28 |
| T 29 | 12 28 34 | 9° 4'27 | 7♈38 | 17°33 | 28°20 | 18°56 | 10°11 | 24°19 | 15°32 | 5° 1 | 2° 5 | 15°18 | 14°15 | 6°56 | 18°12 | T 29 |
| W30 | 12 32 30 | 10° 3'34 | 22° 6 | 19° 8 | 29°31 | 19°36 | 10° 5 | 24°26 | 15°35 | 5° 2 | 2° 5 | 15°16 | 14°11 | 7° 3 | 18°16 | W30 |
| T 31 | 12 36 27 | 11♈ 2'38 | 6♉45 | 20♓45 | 0♓41 | 20♑15 | 9♍59 | 24♓33 | 15♓38 | 5♒ 3 | 2♋ 6 | 15♓13 | 14♓ 8 | 7♐ 9 | 18♓19 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s21 | 0n43 | 1n15 | 15s 9 | 0n56 | 19s25 | 1n34 | 23s40 | 0s11 | 7n50 | 1n29 | 5s27 | 1s59 | 7s 0 | 0s44 | 19s 5 | 0n 9 | 19n35 | 3s53 | 5s47 | 5s38 | 25s53 | 1s25 | 4n16 |
| W 2 | 6 58 | 7 23 | 2 27 | 15 13 | 0 43 | 19 17 | 1 29 | 23 41 | 0 12 | 7 53 | 1 29 | 5 24 | 1 59 | 6 59 | 0 44 | 19 4 | 0 9 | 19 35 | 3 53 | 5 47 | 5 40 | 25 55 | 1 24 | 4 16 |
| T 3 | 6 35 | 13 45 | 3 31 | 15 16 | 0 30 | 19 8 | 1 25 | 23 41 | 0 13 | 7 56 | 1 29 | 5 22 | 1 59 | 6 57 | 0 44 | 19 4 | 0 9 | 19 36 | 3 53 | 5 47 | 5 41 | 25 56 | 1 23 | 4 16 |
| F 4 | 6 12 | 19 26 | 4 23 | 15 16 | 0 18 | 18 59 | 1 20 | 23 42 | 0 14 | 7 59 | 1 29 | 5 19 | 1 59 | 6 56 | 0 44 | 19 3 | 0 9 | 19 36 | 3 52 | 5 47 | 5 42 | 25 58 | 1 21 | 4 16 |
| S 5 | 5 49 | 24 2 | 4 58 | 15 15 | 0 6 | 18 49 | 1 15 | 23 42 | 0 15 | 8 2 | 1 29 | 5 16 | 1 59 | 6 55 | 0 44 | 19 3 | 0 9 | 19 36 | 3 52 | 5 47 | 5 43 | 25 59 | 1 20 | 4 16 |
| S 6 | 5 26 | 27 11 | 5 16 | 15 12 | 0s 5 | 18 39 | 1 11 | 23 42 | 0 16 | 8 5 | 1 29 | 5 13 | 1 59 | 6 53 | 0 44 | 19 3 | 0 9 | 19 36 | 3 52 | 5 47 | 5 44 | 26 1 | 1 18 | 4 15 |
| M 7 | 5 2 | 28 34 | 5 13 | 15 7 | 0 16 | 18 28 | 1 6 | 23 42 | 0 18 | 8 8 | 1 29 | 5 10 | 1 59 | 6 52 | 0 44 | 19 2 | 0 9 | 19 36 | 3 52 | 5 47 | 5 46 | 26 2 | 1 17 | 4 15 |
| T 8 | 4 39 | 28 6 | 4 52 | 15 1 | 0 27 | 18 16 | 1 1 | 23 42 | 0 19 | 8 11 | 1 29 | 5 7 | 1 59 | 6 51 | 0 44 | 19 2 | 0 9 | 19 36 | 3 52 | 5 47 | 5 47 | 26 4 | 1 16 | 4 15 |
| W 9 | 4 16 | 25 51 | 4 14 | 14 53 | 0 37 | 18 5 | 0 57 | 23 41 | 0 20 | 8 14 | 1 29 | 5 4 | 1 59 | 6 49 | 0 44 | 19 1 | 0 9 | 19 36 | 3 52 | 5 46 | 5 48 | 26 5 | 1 14 | 4 15 |
| T 10 | 3 52 | 22 6 | 3 22 | 14 43 | 0 46 | 17 52 | 0 52 | 23 40 | 0 21 | 8 17 | 1 29 | 5 1 | 1 59 | 6 48 | 0 44 | 19 1 | 0 9 | 19 37 | 3 52 | 5 46 | 5 49 | 26 7 | 1 13 | 4 15 |
| F 11 | 3 28 | 17 12 | 2 19 | 14 32 | 0 56 | 17 39 | 0 48 | 23 40 | 0 22 | 8 20 | 1 29 | 4 58 | 1 59 | 6 47 | 0 44 | 19 0 | 0 9 | 19 37 | 3 51 | 5 46 | 5 51 | 26 8 | 1 11 | 4 15 |
| S 12 | 3 5 | 11 33 | 1 9 | 14 20 | 1 5 | 17 26 | 0 43 | 23 39 | 0 23 | 8 23 | 1 29 | 4 55 | 1 59 | 6 45 | 0 44 | 19 0 | 0 9 | 19 37 | 3 51 | 5 46 | 5 52 | 26 9 | 1 10 | 4 15 |
| S 13 | 2 41 | 5 29 | 0s 3 | 14 5 | 1 13 | 17 12 | 0 39 | 23 37 | 0 24 | 8 26 | 1 29 | 4 52 | 2 0 | 6 44 | 0 44 | 19 0 | 0 9 | 19 37 | 3 51 | 5 46 | 5 53 | 26 11 | 1 8 | 4 15 |
| M14 | 2 18 | 0s42 | 1 14 | 13 50 | 1 21 | 16 58 | 0 34 | 23 36 | 0 26 | 8 29 | 1 29 | 4 49 | 2 0 | 6 43 | 0 44 | 18 59 | 0 9 | 19 37 | 3 51 | 5 46 | 5 54 | 26 12 | 1 7 | 4 15 |
| T 15 | 1 54 | 6 45 | 2 20 | 13 33 | 1 28 | 16 43 | 0 30 | 23 34 | 0 27 | 8 32 | 1 29 | 4 47 | 2 0 | 6 42 | 0 44 | 18 59 | 0 9 | 19 37 | 3 51 | 5 46 | 5 56 | 26 14 | 1 6 | 4 15 |
| W16 | 1 30 | 12 25 | 3 18 | 13 14 | 1 35 | 16 28 | 0 26 | 23 32 | 0 28 | 8 35 | 1 29 | 4 44 | 2 0 | 6 40 | 0 44 | 18 59 | 0 9 | 19 37 | 3 51 | 5 47 | 5 57 | 26 15 | 1 4 | 4 15 |
| T 17 | 1 7 | 17 30 | 4 6 | 12 54 | 1 42 | 16 12 | 0 22 | 23 31 | 0 29 | 8 38 | 1 29 | 4 41 | 2 0 | 6 39 | 0 44 | 18 58 | 0 9 | 19 38 | 3 51 | 5 47 | 5 58 | 26 16 | 1 3 | 4 15 |
| F 18 | 0 43 | 21 50 | 4 42 | 12 33 | 1 48 | 15 56 | 0 17 | 23 28 | 0 31 | 8 40 | 1 29 | 4 38 | 2 0 | 6 38 | 0 44 | 18 58 | 0 9 | 19 38 | 3 50 | 5 48 | 5 59 | 26 18 | 1 1 | 4 15 |
| S 19 | 0 19 | 25 13 | 5 5 | 12 10 | 1 54 | 15 39 | 0 13 | 23 26 | 0 32 | 8 43 | 1 29 | 4 35 | 2 0 | 6 36 | 0 44 | 18 57 | 0 9 | 19 38 | 3 50 | 5 49 | 6 0 | 26 19 | 1 0 | 4 15 |
| S 20 | 0n 4 | 27 30 | 5 15 | 11 46 | 1 59 | 15 22 | 0 9 | 23 24 | 0 33 | 8 46 | 1 29 | 4 32 | 2 0 | 6 35 | 0 44 | 18 57 | 0 9 | 19 38 | 3 50 | 5 49 | 6 2 | 26 20 | 0 58 | 4 15 |
| M21 | 0 28 | 28 33 | 5 12 | 11 20 | 2 4 | 15 4 | 0 5 | 23 21 | 0 34 | 8 48 | 1 29 | 4 29 | 2 0 | 6 34 | 0 44 | 18 57 | 0 9 | 19 38 | 3 50 | 5 50 | 6 3 | 26 22 | 0 57 | 4 15 |
| T 22 | 0 52 | 28 15 | 4 55 | 10 53 | 2 8 | 14 46 | 0 1 | 23 18 | 0 36 | 8 51 | 1 29 | 4 26 | 2 0 | 6 32 | 0 44 | 18 56 | 0 9 | 19 38 | 3 50 | 5 50 | 6 4 | 26 23 | 0 56 | 4 15 |
| W23 | 1 15 | 26 37 | 4 25 | 10 25 | 2 12 | 14 28 | 0s 3 | 23 15 | 0 37 | 8 53 | 1 29 | 4 23 | 2 0 | 6 31 | 0 44 | 18 56 | 0 9 | 19 38 | 3 50 | 5 49 | 6 5 | 26 24 | 0 54 | 4 15 |
| T 24 | 1 39 | 23 41 | 3 42 | 9 55 | 2 15 | 14 9 | 0 7 | 23 12 | 0 38 | 8 56 | 1 29 | 4 21 | 2 0 | 6 30 | 0 44 | 18 56 | 0 9 | 19 39 | 3 49 | 5 49 | 6 7 | 26 26 | 0 53 | 4 15 |
| F 25 | 2 2 | 19 33 | 2 48 | 9 25 | 2 18 | 13 49 | 0 11 | 23 8 | 0 40 | 8 58 | 1 28 | 4 18 | 2 0 | 6 29 | 0 44 | 18 55 | 0 9 | 19 39 | 3 49 | 5 48 | 6 8 | 26 27 | 0 51 | 4 15 |
| S 26 | 2 26 | 14 24 | 1 43 | 8 53 | 2 20 | 13 30 | 0 15 | 23 5 | 0 41 | 9 1 | 1 28 | 4 15 | 2 0 | 6 27 | 0 44 | 18 55 | 0 9 | 19 39 | 3 49 | 5 48 | 6 9 | 26 28 | 0 50 | 4 15 |
| S 27 | 2 49 | 8 26 | 0 31 | 8 19 | 2 22 | 13 10 | 0 18 | 23 1 | 0 42 | 9 3 | 1 28 | 4 12 | 2 0 | 6 26 | 0 44 | 18 55 | 0 9 | 19 39 | 3 49 | 5 48 | 6 10 | 26 30 | 0 49 | 4 15 |
| M28 | 3 13 | 1 55 | 0n45 | 7 45 | 2 24 | 12 49 | 0 22 | 22 57 | 0 44 | 9 5 | 1 28 | 4 9 | 2 0 | 6 25 | 0 44 | 18 55 | 0 9 | 19 39 | 3 49 | 5 48 | 6 12 | 26 31 | 0 47 | 4 15 |
| T 29 | 3 36 | 4n52 | 2 0 | 7 9 | 2 25 | 12 28 | 0 26 | 22 53 | 0 45 | 9 8 | 1 28 | 4 6 | 2 0 | 6 24 | 0 44 | 18 54 | 0 9 | 19 39 | 3 49 | 5 48 | 6 13 | 26 32 | 0 46 | 4 15 |
| W30 | 3 59 | 11 32 | 3 8 | 6 32 | 2 25 | 12 7 | 0 29 | 22 49 | 0 47 | 9 10 | 1 28 | 4 4 | 2 1 | 6 22 | 0 44 | 18 54 | 0 9 | 19 39 | 3 49 | 5 49 | 6 14 | 26 33 | 0 44 | 4 15 |
| T 31 | 4n23 | 17n39 | 4n 5 | 5s54 | 2s25 | 11s46 | 0s33 | 22s45 | 0s48 | 9n12 | 1n28 | 4s 1 | 2s 1 | 6s21 | 0s44 | 18s54 | 0n 9 | 19n40 | 3s48 | 5s50 | 6s15 | 26s35 | 0s43 | 4n15 |

Julian Day Number = 2331805.5, Delta T = 28.37 sec
Ecliptic obliquity = 23°29'04, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'51, Lahiri = 19°16'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## APRIL 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 40 24 | 12♈ 1'41 | 21♉28 | 22♓24 | 1♓51 | 20♋54 | 9°R53 | 24♓41 | 15♓41 | 5♒ 4 | 2♋ 6 | 15°R 9 | 14♓ 5 | 7♐16 | 18♓23 | F 1 |
| S 2 | 12 44 20 | 13° 0'41 | 6♊ 8 | 24° 3 | 3° 2 | 21°33 | 9♍47 | 24°48 | 15°45 | 5° 5 | 2° 6 | 15♓ 5 | 14° 2 | 7°23 | 18°26 | S 2 |
| S 3 | 12 48 17 | 13°59'39 | 20°39 | 25°45 | 4°12 | 22°12 | 9°42 | 24°55 | 15°48 | 5° 6 | 2° 7 | 15° 2 | 13°59 | 7°30 | 18°30 | S 3 |
| M 4 | 12 52 13 | 14°58'34 | 4♋57 | 27°27 | 5°22 | 22°51 | 9°37 | 25° 2 | 15°51 | 5° 8 | 2° 7 | 15° 1 | 13°55 | 7°36 | 18°33 | M 4 |
| T 5 | 12 56 10 | 15°57'28 | 18°59 | 29°12 | 6°33 | 23°30 | 9°31 | 25° 9 | 15°54 | 5° 9 | 2° 8 | 15°D 0 | 13°52 | 7°43 | 18°37 | T 5 |
| W 6 | 13 0 6 | 16°56'19 | 2♌45 | 0♈57 | 7°44 | 24° 9 | 9°26 | 25°16 | 15°57 | 5°10 | 2° 8 | 15° 1 | 13°49 | 7°50 | 18°40 | W 6 |
| T 7 | 13 4 3 | 17°55'07 | 16°13 | 2°45 | 8°54 | 24°48 | 9°22 | 25°23 | 16° 0 | 5°11 | 2° 9 | 15° 3 | 13°46 | 7°56 | 18°43 | T 7 |
| F 8 | 13 7 59 | 18°53'53 | 29°27 | 4°33 | 10° 5 | 25°27 | 9°17 | 25°30 | 16° 3 | 5°11 | 2° 9 | 15° 4 | 13°43 | 8° 3 | 18°47 | F 8 |
| S 9 | 13 11 56 | 19°52'37 | 12♍26 | 6°24 | 11°16 | 26° 5 | 9°12 | 25°38 | 16° 6 | 5°12 | 2°10 | 15°R 5 | 13°40 | 8°10 | 18°50 | S 9 |
| S 10 | 13 15 53 | 20°51'19 | 25°13 | 8°16 | 12°26 | 26°44 | 9° 8 | 25°45 | 16° 9 | 5°13 | 2°10 | 15° 5 | 13°36 | 8°17 | 18°53 | S 10 |
| M11 | 13 19 49 | 21°49'59 | 7♎48 | 10° 9 | 13°37 | 27°23 | 9° 4 | 25°51 | 16°12 | 5°14 | 2°11 | 15° 2 | 13°33 | 8°23 | 18°57 | M11 |
| T 12 | 13 23 46 | 22°48'36 | 20°13 | 12° 4 | 14°48 | 28° 2 | 9° 0 | 25°58 | 16°15 | 5°15 | 2°12 | 14°58 | 13°30 | 8°30 | 19° 0 | T 12 |
| W13 | 13 27 42 | 23°47'12 | 2♏29 | 14° 1 | 15°59 | 28°40 | 8°56 | 26° 5 | 16°18 | 5°16 | 2°12 | 14°53 | 13°27 | 8°37 | 19° 3 | W13 |
| T 14 | 13 31 39 | 24°45'46 | 14°36 | 15°59 | 17°10 | 29°19 | 8°52 | 26°12 | 16°21 | 5°17 | 2°13 | 14°46 | 13°24 | 8°44 | 19° 6 | T 14 |
| F 15 | 13 35 35 | 25°44'18 | 26°37 | 17°58 | 18°21 | 29°58 | 8°49 | 26°19 | 16°23 | 5°17 | 2°14 | 14°38 | 13°21 | 8°50 | 19°10 | F 15 |
| S 16 | 13 39 32 | 26°42'48 | 8♐32 | 19°59 | 19°32 | 0♒36 | 8°45 | 26°26 | 16°26 | 5°18 | 2°14 | 14°31 | 13°17 | 8°57 | 19°13 | S 16 |
| S 17 | 13 43 28 | 27°41'17 | 20°24 | 22° 2 | 20°43 | 1°15 | 8°42 | 26°33 | 16°29 | 5°19 | 2°15 | 14°24 | 13°14 | 9° 4 | 19°16 | S 17 |
| M18 | 13 47 25 | 28°39'43 | 2♑17 | 24° 5 | 21°54 | 1°53 | 8°39 | 26°39 | 16°32 | 5°19 | 2°16 | 14°19 | 13°11 | 9°10 | 19°19 | M18 |
| T 19 | 13 51 22 | 29°38'09 | 14°14 | 26°10 | 23° 5 | 2°32 | 8°36 | 26°46 | 16°35 | 5°20 | 2°17 | 14°15 | 13° 8 | 9°17 | 19°22 | T 19 |
| W20 | 13 55 18 | 0♉36'32 | 26°19 | 28°17 | 24°17 | 3°10 | 8°34 | 26°53 | 16°37 | 5°20 | 2°17 | 14°D14 | 13° 5 | 9°24 | 19°25 | W20 |
| T 21 | 13 59 15 | 1°34'54 | 8♒38 | 0♉24 | 25°28 | 3°48 | 8°31 | 26°59 | 16°40 | 5°21 | 2°18 | 14°14 | 13° 1 | 9°31 | 19°28 | T 21 |
| F 22 | 14 3 11 | 2°33'14 | 21°14 | 2°32 | 26°39 | 4°27 | 8°29 | 27° 6 | 16°43 | 5°22 | 2°19 | 14°15 | 12°58 | 9°37 | 19°31 | F 22 |
| S 23 | 14 7 8 | 3°31'33 | 4♓13 | 4°40 | 27°51 | 5° 5 | 8°27 | 27°12 | 16°45 | 5°22 | 2°20 | 14°16 | 12°55 | 9°44 | 19°34 | S 23 |
| S 24 | 14 11 4 | 4°29'50 | 17°38 | 6°49 | 29° 2 | 5°43 | 8°25 | 27°19 | 16°48 | 5°22 | 2°21 | 14°R17 | 12°52 | 9°51 | 19°37 | S 24 |
| M25 | 14 15 1 | 5°28'06 | 1♈31 | 8°59 | 0♈13 | 6°21 | 8°23 | 27°25 | 16°50 | 5°23 | 2°22 | 14°15 | 12°49 | 9°57 | 19°40 | M25 |
| T 26 | 14 18 57 | 6°26'20 | 15°50 | 11° 8 | 1°25 | 6°59 | 8°21 | 27°31 | 16°53 | 5°23 | 2°23 | 14°12 | 12°46 | 10° 4 | 19°43 | T 26 |
| W27 | 14 22 54 | 7°24'32 | 0♉33 | 13°17 | 2°36 | 7°37 | 8°20 | 27°38 | 16°55 | 5°24 | 2°23 | 14° 6 | 12°42 | 10°11 | 19°45 | W27 |
| T 28 | 14 26 51 | 8°22'43 | 15°33 | 15°25 | 3°48 | 8°15 | 8°19 | 27°44 | 16°58 | 5°24 | 2°24 | 13°59 | 12°39 | 10°18 | 19°48 | T 28 |
| F 29 | 14 30 47 | 9°20'52 | 0♊40 | 17°33 | 4°59 | 8°53 | 8°18 | 27°50 | 17° 0 | 5°24 | 2°25 | 13°50 | 12°36 | 10°24 | 19°51 | F 29 |
| S 30 | 14 34 44 | 10♉18'59 | 15♊44 | 19♉39 | 6♈11 | 9♒31 | 8♍17 | 27♓56 | 17♓ 3 | 5♒24 | 2♋26 | 13♓42 | 12♓33 | 10♐31 | 19♓54 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n46 | 22n46 | 4n47 | 5s14 | 2s25 | 11s24 | 0s36 | 22s40 | 0s49 | 9n14 | 1n28 | 3s58 | 2s 1 | 6s20 | 0s44 | 18s53 | 0n 9 | 19n40 | 3s48 | 5s52 | 6s16 | 26s36 | 0s41 | 4n15 |
| S 2 | 5 9 | 26 27 | 5 9 | 4 34 | 2 24 | 11 1 | 0 39 | 22 36 | 0 51 | 9 16 | 1 28 | 3 55 | 2 1 | 6 19 | 0 44 | 18 53 | 0 9 | 19 40 | 3 48 | 5 53 | 6 18 | 26 37 | 0 40 | 4 15 |
| S 3 | 5 32 | 28 20 | 5 11 | 3 52 | 2 22 | 10 39 | 0 43 | 22 31 | 0 52 | 9 18 | 1 28 | 3 52 | 2 1 | 6 18 | 0 44 | 18 53 | 0 9 | 19 40 | 3 48 | 5 54 | 6 19 | 26 39 | 0 39 | 4 15 |
| M 4 | 5 55 | 28 18 | 4 54 | 3 10 | 2 20 | 10 16 | 0 46 | 22 26 | 0 54 | 9 20 | 1 27 | 3 50 | 2 1 | 6 16 | 0 44 | 18 53 | 0 9 | 19 40 | 3 48 | 5 55 | 6 20 | 26 40 | 0 37 | 4 15 |
| T 5 | 6 17 | 26 25 | 4 20 | 2 26 | 2 18 | 9 53 | 0 49 | 22 21 | 0 55 | 9 22 | 1 27 | 3 47 | 2 1 | 6 15 | 0 44 | 18 52 | 0 9 | 19 40 | 3 48 | 5 55 | 6 21 | 26 41 | 0 36 | 4 15 |
| W 6 | 6 40 | 23 0 | 3 31 | 1 41 | 2 15 | 9 29 | 0 52 | 22 15 | 0 57 | 9 23 | 1 27 | 3 44 | 2 1 | 6 14 | 0 44 | 18 52 | 0 9 | 19 40 | 3 48 | 5 55 | 6 23 | 26 42 | 0 35 | 4 15 |
| T 7 | 7 3 | 18 24 | 2 31 | 0 55 | 2 11 | 9 6 | 0 55 | 22 10 | 0 58 | 9 25 | 1 27 | 3 41 | 2 1 | 6 13 | 0 44 | 18 52 | 0 9 | 19 41 | 3 47 | 5 54 | 6 24 | 26 43 | 0 33 | 4 15 |
| F 8 | 7 25 | 13 0 | 1 24 | 0 8 | 2 7 | 8 42 | 0 58 | 22 4 | 1 0 | 9 27 | 1 27 | 3 39 | 2 1 | 6 12 | 0 44 | 18 52 | 0 9 | 19 41 | 3 47 | 5 54 | 6 25 | 26 45 | 0 32 | 4 15 |
| S 9 | 7 47 | 7 8 | 0 14 | 0n40 | 2 3 | 8 17 | 1 1 | 21 59 | 1 1 | 9 28 | 1 27 | 3 36 | 2 2 | 6 11 | 0 44 | 18 51 | 0 9 | 19 41 | 3 47 | 5 53 | 6 26 | 26 46 | 0 30 | 4 16 |
| S 10 | 8 9 | 1 4 | 0s55 | 1 29 | 1 58 | 7 53 | 1 3 | 21 53 | 1 3 | 9 30 | 1 27 | 3 33 | 2 2 | 6 9 | 0 44 | 18 51 | 0 9 | 19 41 | 3 47 | 5 53 | 6 27 | 26 47 | 0 29 | 4 16 |
| M11 | 8 31 | 4s57 | 2 0 | 2 18 | 1 52 | 7 28 | 1 6 | 21 47 | 1 5 | 9 31 | 1 26 | 3 31 | 2 2 | 6 8 | 0 44 | 18 51 | 0 9 | 19 41 | 3 47 | 5 54 | 6 29 | 26 48 | 0 28 | 4 16 |
| T 12 | 8 53 | 10 41 | 2 59 | 3 9 | 1 46 | 7 3 | 1 8 | 21 40 | 1 6 | 9 33 | 1 26 | 3 28 | 2 2 | 6 7 | 0 44 | 18 51 | 0 9 | 19 41 | 3 47 | 5 56 | 6 30 | 26 49 | 0 26 | 4 16 |
| W13 | 9 15 | 15 56 | 3 49 | 4 0 | 1 40 | 6 38 | 1 11 | 21 34 | 1 8 | 9 34 | 1 26 | 3 25 | 2 2 | 6 6 | 0 45 | 18 51 | 0 9 | 19 41 | 3 47 | 5 58 | 6 31 | 26 51 | 0 25 | 4 16 |
| T 14 | 9 37 | 20 30 | 4 27 | 4 52 | 1 33 | 6 12 | 1 13 | 21 28 | 1 9 | 9 35 | 1 26 | 3 23 | 2 2 | 6 5 | 0 45 | 18 50 | 0 9 | 19 41 | 3 47 | 6 1 | 6 32 | 26 52 | 0 24 | 4 16 |
| F 15 | 9 58 | 24 11 | 4 54 | 5 45 | 1 25 | 5 47 | 1 16 | 21 21 | 1 11 | 9 36 | 1 26 | 3 20 | 2 2 | 6 4 | 0 45 | 18 50 | 0 9 | 19 42 | 3 46 | 6 4 | 6 34 | 26 53 | 0 22 | 4 16 |
| S 16 | 10 19 | 26 49 | 5 7 | 6 38 | 1 17 | 5 21 | 1 18 | 21 14 | 1 13 | 9 38 | 1 26 | 3 18 | 2 2 | 6 3 | 0 45 | 18 50 | 0 9 | 19 42 | 3 46 | 6 7 | 6 35 | 26 54 | 0 21 | 4 16 |
| S 17 | 10 40 | 28 14 | 5 7 | 7 32 | 1 9 | 4 55 | 1 20 | 21 8 | 1 14 | 9 39 | 1 26 | 3 15 | 2 3 | 6 2 | 0 45 | 18 50 | 0 9 | 19 42 | 3 46 | 6 9 | 6 36 | 26 55 | 0 20 | 4 16 |
| M18 | 11 1 | 28 21 | 4 54 | 8 26 | 1 0 | 4 29 | 1 22 | 21 1 | 1 16 | 9 40 | 1 25 | 3 12 | 2 3 | 6 1 | 0 45 | 18 50 | 0 9 | 19 42 | 3 46 | 6 11 | 6 37 | 26 56 | 0 19 | 4 16 |
| T 19 | 11 22 | 27 9 | 4 28 | 9 20 | 0 51 | 4 2 | 1 24 | 20 54 | 1 18 | 9 40 | 1 25 | 3 10 | 2 3 | 6 0 | 0 45 | 18 50 | 0 9 | 19 42 | 3 46 | 6 12 | 6 38 | 26 57 | 0 17 | 4 16 |
| W20 | 11 42 | 24 41 | 3 49 | 10 14 | 0 41 | 3 36 | 1 26 | 20 46 | 1 19 | 9 41 | 1 25 | 3 7 | 2 3 | 5 59 | 0 45 | 18 50 | 0 9 | 19 42 | 3 46 | 6 13 | 6 40 | 26 59 | 0 16 | 4 16 |
| T 21 | 12 3 | 21 2 | 3 0 | 11 9 | 0 31 | 3 9 | 1 28 | 20 39 | 1 21 | 9 42 | 1 25 | 3 5 | 2 3 | 5 58 | 0 45 | 18 49 | 0 9 | 19 42 | 3 46 | 6 13 | 6 41 | 27 0 | 0 15 | 4 16 |
| F 22 | 12 23 | 16 21 | 2 1 | 12 3 | 0 21 | 2 42 | 1 30 | 20 32 | 1 23 | 9 43 | 1 25 | 3 2 | 2 3 | 5 57 | 0 45 | 18 49 | 0 9 | 19 42 | 3 45 | 6 13 | 6 42 | 27 1 | 0 13 | 4 17 |
| S 23 | 12 43 | 10 49 | 0 54 | 12 56 | 0 11 | 2 15 | 1 31 | 20 24 | 1 25 | 9 43 | 1 24 | 3 0 | 2 3 | 5 56 | 0 45 | 18 49 | 0 9 | 19 43 | 3 45 | 6 12 | 6 43 | 27 2 | 0 12 | 4 17 |
| S 24 | 13 3 | 4 37 | 0n18 | 13 49 | 0 0 | 1 48 | 1 33 | 20 16 | 1 26 | 9 44 | 1 24 | 2 58 | 2 4 | 5 55 | 0 45 | 18 49 | 0 9 | 19 43 | 3 45 | 6 12 | 6 45 | 27 3 | 0 11 | 4 17 |
| M25 | 13 22 | 2n 0 | 1 31 | 14 41 | 0n10 | 1 21 | 1 34 | 20 9 | 1 28 | 9 44 | 1 24 | 2 55 | 2 4 | 5 54 | 0 45 | 18 49 | 0 9 | 19 43 | 3 45 | 6 12 | 6 46 | 27 4 | 0 10 | 4 17 |
| T 26 | 13 41 | 8 43 | 2 41 | 15 32 | 0 21 | 0 54 | 1 36 | 20 1 | 1 30 | 9 45 | 1 24 | 2 53 | 2 4 | 5 53 | 0 45 | 18 49 | 0 9 | 19 43 | 3 45 | 6 14 | 6 47 | 27 5 | 0 9 | 4 17 |
| W27 | 14 1 | 15 9 | 3 42 | 16 22 | 0 32 | 0 27 | 1 37 | 19 53 | 1 32 | 9 45 | 1 24 | 2 50 | 2 4 | 5 52 | 0 45 | 18 49 | 0 9 | 19 43 | 3 45 | 6 16 | 6 48 | 27 6 | 0 7 | 4 17 |
| T 28 | 14 19 | 20 48 | 4 29 | 17 10 | 0 42 | 0n 0 | 1 38 | 19 45 | 1 34 | 9 46 | 1 24 | 2 48 | 2 4 | 5 51 | 0 45 | 18 49 | 0 9 | 19 43 | 3 45 | 6 19 | 6 49 | 27 7 | 0 6 | 4 17 |
| F 29 | 14 38 | 25 10 | 4 57 | 17 56 | 0 53 | 0 28 | 1 40 | 19 36 | 1 36 | 9 46 | 1 23 | 2 46 | 2 4 | 5 50 | 0 45 | 18 49 | 0 9 | 19 43 | 3 45 | 6 22 | 6 51 | 27 8 | 0 5 | 4 17 |
| S 30 | 14n56 | 27n46 | 5n 5 | 18n41 | 1n 3 | 0n55 | 1s41 | 19s28 | 1s37 | 9n46 | 1n23 | 2s43 | 2s 4 | 5s49 | 0s45 | 18s49 | 0n 9 | 19n43 | 3s44 | 6s25 | 6s52 | 27s 9 | 0s 4 | 4n17 |

Julian Day Number = 2331836.5, Delta T = 28.31 sec
Ecliptic obliquity = 23°29'04, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'55, Lahiri = 19°16'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## MAY 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 38 40 | 11♉17'05 | 0♋36 | 21♉43 | 7♈22 | 10♒ 8 | 8°R16 | 28♓ 3 | 17♓ 5 | 5♒25 | 2♋27 | 13°R35 | 12♓30 | 10♐38 | 19♓56 | S 1 |
| M 2 | 14 42 37 | 12°15'08 | 15° 9 | 23°46 | 8°34 | 10°46 | 8♍16 | 28° 9 | 17° 7 | 5°25 | 2°28 | 13♓30 | 12°27 | 10°45 | 19°59 | M 2 |
| T 3 | 14 46 33 | 13°13'10 | 29°19 | 25°47 | 9°46 | 11°23 | 8°15 | 28°15 | 17°10 | 5°25 | 2°29 | 13°27 | 12°23 | 10°51 | 20° 1 | T 3 |
| W 4 | 14 50 30 | 14°11'10 | 13♌ 4 | 27°45 | 10°57 | 12° 1 | 8°D15 | 28°21 | 17°12 | 5°25 | 2°30 | 13°D27 | 12°20 | 10°58 | 20° 4 | W 4 |
| T 5 | 14 54 26 | 15° 9'07 | 26°27 | 29°41 | 12° 9 | 12°38 | 8°15 | 28°27 | 17°14 | 5°25 | 2°31 | 13°27 | 12°17 | 11° 5 | 20° 7 | T 5 |
| F 6 | 14 58 23 | 16° 7'03 | 9♍29 | 1♊34 | 13°21 | 13°15 | 8°16 | 28°32 | 17°16 | 5°25 | 2°32 | 13°R27 | 12°14 | 11°11 | 20° 9 | F 6 |
| S 7 | 15 2 20 | 17° 4'57 | 22°14 | 3°25 | 14°32 | 13°52 | 8°16 | 28°38 | 17°18 | 5°R25 | 2°34 | 13°27 | 12°11 | 11°18 | 20°11 | S 7 |
| S 8 | 15 6 16 | 18° 2'49 | 4♎45 | 5°12 | 15°44 | 14°29 | 8°17 | 28°44 | 17°20 | 5°25 | 2°35 | 13°25 | 12° 7 | 11°25 | 20°14 | S 8 |
| M 9 | 15 10 13 | 19° 0'39 | 17° 5 | 6°56 | 16°56 | 15° 6 | 8°18 | 28°50 | 17°22 | 5°25 | 2°36 | 13°21 | 12° 4 | 11°32 | 20°16 | M 9 |
| T 10 | 15 14 9 | 19°58'28 | 29°17 | 8°37 | 18° 8 | 15°43 | 8°18 | 28°55 | 17°24 | 5°25 | 2°37 | 13°13 | 12° 1 | 11°38 | 20°18 | T 10 |
| W11 | 15 18 6 | 20°56'15 | 11♏21 | 10°15 | 19°20 | 16°20 | 8°20 | 29° 1 | 17°26 | 5°25 | 2°38 | 13° 4 | 11°58 | 11°45 | 20°21 | W11 |
| T 12 | 15 22 2 | 21°54'01 | 23°21 | 11°50 | 20°32 | 16°57 | 8°21 | 29° 6 | 17°28 | 5°25 | 2°39 | 12°52 | 11°55 | 11°52 | 20°23 | T 12 |
| F 13 | 15 25 59 | 22°51'46 | 5♐16 | 13°21 | 21°43 | 17°33 | 8°23 | 29°12 | 17°30 | 5°25 | 2°40 | 12°39 | 11°52 | 11°59 | 20°25 | F 13 |
| S 14 | 15 29 55 | 23°49'29 | 17° 9 | 14°48 | 22°55 | 18°10 | 8°24 | 29°17 | 17°32 | 5°24 | 2°42 | 12°26 | 11°48 | 12° 5 | 20°27 | S 14 |
| S 15 | 15 33 52 | 24°47'11 | 29° 2 | 16°12 | 24° 7 | 18°46 | 8°26 | 29°22 | 17°34 | 5°24 | 2°43 | 12°15 | 11°45 | 12°12 | 20°29 | S 15 |
| M16 | 15 37 49 | 25°44'51 | 10♑55 | 17°33 | 25°19 | 19°22 | 8°28 | 29°27 | 17°35 | 5°24 | 2°44 | 12° 5 | 11°42 | 12°19 | 20°31 | M16 |
| T 17 | 15 41 45 | 26°42'31 | 22°53 | 18°50 | 26°31 | 19°58 | 8°30 | 29°33 | 17°37 | 5°24 | 2°45 | 11°58 | 11°39 | 12°25 | 20°33 | T 17 |
| W18 | 15 45 42 | 27°40'09 | 4♒58 | 20° 3 | 27°43 | 20°34 | 8°33 | 29°38 | 17°39 | 5°23 | 2°47 | 11°54 | 11°36 | 12°32 | 20°35 | W18 |
| T 19 | 15 49 38 | 28°37'47 | 17°15 | 21°13 | 28°55 | 21°10 | 8°35 | 29°43 | 17°40 | 5°23 | 2°48 | 11°52 | 11°33 | 12°39 | 20°37 | T 19 |
| F 20 | 15 53 35 | 29°35'23 | 29°48 | 22°18 | 0♉ 7 | 21°46 | 8°38 | 29°48 | 17°42 | 5°22 | 2°49 | 11°D51 | 11°29 | 12°46 | 20°39 | F 20 |
| S 21 | 15 57 31 | 0♊32'59 | 12♓42 | 23°20 | 1°19 | 22°21 | 8°41 | 29°53 | 17°44 | 5°22 | 2°50 | 11°R52 | 11°26 | 12°52 | 20°41 | S 21 |
| S 22 | 16 1 28 | 1°30'33 | 26° 2 | 24°18 | 2°31 | 22°57 | 8°44 | 29°57 | 17°45 | 5°22 | 2°52 | 11°51 | 11°23 | 12°59 | 20°42 | S 22 |
| M23 | 16 5 24 | 2°28'07 | 9♈50 | 25°13 | 3°44 | 23°32 | 8°47 | 0♈ 2 | 17°46 | 5°21 | 2°53 | 11°49 | 11°20 | 13° 6 | 20°44 | M23 |
| T 24 | 16 9 21 | 3°25'39 | 24° 7 | 26° 3 | 4°56 | 24° 7 | 8°51 | 0° 7 | 17°48 | 5°20 | 2°54 | 11°44 | 11°17 | 13°12 | 20°46 | T 24 |
| W25 | 16 13 18 | 4°23'11 | 8♉52 | 26°49 | 6° 8 | 24°42 | 8°54 | 0°11 | 17°49 | 5°20 | 2°56 | 11°37 | 11°13 | 13°19 | 20°47 | W25 |
| T 26 | 16 17 14 | 5°20'42 | 23°57 | 27°31 | 7°20 | 25°17 | 8°58 | 0°16 | 17°51 | 5°19 | 2°57 | 11°27 | 11°10 | 13°26 | 20°49 | T 26 |
| F 27 | 16 21 11 | 6°18'13 | 9♊14 | 28° 8 | 8°32 | 25°52 | 9° 2 | 0°20 | 17°52 | 5°19 | 2°58 | 11°17 | 11° 7 | 13°33 | 20°50 | F 27 |
| S 28 | 16 25 7 | 7°15'42 | 24°32 | 28°41 | 9°45 | 26°27 | 9° 6 | 0°25 | 17°53 | 5°18 | 3° 0 | 11° 6 | 11° 4 | 13°39 | 20°52 | S 28 |
| S 29 | 16 29 4 | 8°13'10 | 9♋39 | 29°10 | 10°57 | 27° 1 | 9°10 | 0°29 | 17°54 | 5°17 | 3° 1 | 10°57 | 11° 1 | 13°46 | 20°53 | S 29 |
| M30 | 16 33 0 | 9°10'37 | 24°26 | 29°35 | 12° 9 | 27°35 | 9°15 | 0°33 | 17°55 | 5°17 | 3° 2 | 10°49 | 10°58 | 13°53 | 20°54 | M30 |
| T 31 | 16 36 57 | 10♊ 8'02 | 8♌47 | 29♊54 | 13♉21 | 28♒ 9 | 9♍19 | 0♈37 | 17♓56 | 5♒16 | 3♋ 4 | 10♓45 | 10♓54 | 14♐ 0 | 20♓56 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n15 | 28n21 | 4n52 | 19n24 | 1n12 | 1n23 | 1s42 | 19s20 | 1s39 | 9n46 | 1n23 | 2s41 | 2s 5 | 5s48 | 0s45 | 18s49 | 0n 9 | 19n43 | 3s44 | 6s28 | 6s53 | 27s10 | 0s 3 | 4n18 |
| M 2 | 15 33 | 26 56 | 4 20 | 20 4 | 1 22 | 1 50 | 1 42 | 19 11 | 1 41 | 9 46 | 1 23 | 2 39 | 2 5 | 5 47 | 0 45 | 18 49 | 0 9 | 19 44 | 3 44 | 6 30 | 6 54 | 27 11 | 0 2 | 4 18 |
| T 3 | 15 50 | 23 48 | 3 33 | 20 42 | 1 30 | 2 17 | 1 43 | 19 3 | 1 43 | 9 46 | 1 23 | 2 37 | 2 5 | 5 46 | 0 45 | 18 49 | 0 9 | 19 44 | 3 44 | 6 31 | 6 55 | 27 12 | 0 0 | 4 18 |
| W 4 | 16 8 | 19 24 | 2 35 | 21 18 | 1 39 | 2 45 | 1 44 | 18 54 | 1 45 | 9 46 | 1 22 | 2 34 | 2 5 | 5 45 | 0 45 | 18 49 | 0 9 | 19 44 | 3 44 | 6 31 | 6 57 | 27 13 | 0n 1 | 4 18 |
| T 5 | 16 25 | 14 7 | 1 30 | 21 51 | 1 46 | 3 12 | 1 45 | 18 46 | 1 47 | 9 46 | 1 22 | 2 32 | 2 5 | 5 45 | 0 45 | 18 48 | 0 9 | 19 44 | 3 44 | 6 31 | 6 58 | 27 14 | 0 2 | 4 18 |
| F 6 | 16 42 | 8 21 | 0 21 | 22 22 | 1 53 | 3 40 | 1 45 | 18 37 | 1 49 | 9 45 | 1 22 | 2 30 | 2 6 | 5 44 | 0 45 | 18 48 | 0 9 | 19 44 | 3 44 | 6 31 | 6 59 | 27 15 | 0 3 | 4 18 |
| S 7 | 16 58 | 2 22 | 0s47 | 22 50 | 2 0 | 4 7 | 1 46 | 18 28 | 1 51 | 9 45 | 1 22 | 2 28 | 2 6 | 5 43 | 0 45 | 18 48 | 0 9 | 19 44 | 3 44 | 6 31 | 7 0 | 27 16 | 0 4 | 4 18 |
| S 8 | 17 14 | 3s35 | 1 51 | 23 16 | 2 5 | 4 34 | 1 46 | 18 19 | 1 53 | 9 44 | 1 22 | 2 26 | 2 6 | 5 42 | 0 45 | 18 48 | 0 9 | 19 44 | 3 43 | 6 32 | 7 2 | 27 17 | 0 5 | 4 18 |
| M 9 | 17 30 | 9 19 | 2 49 | 23 39 | 2 10 | 5 2 | 1 46 | 18 10 | 1 55 | 9 44 | 1 21 | 2 24 | 2 6 | 5 42 | 0 45 | 18 49 | 0 9 | 19 44 | 3 43 | 6 34 | 7 3 | 27 18 | 0 6 | 4 19 |
| T 10 | 17 46 | 14 38 | 3 38 | 24 0 | 2 14 | 5 29 | 1 47 | 18 1 | 1 57 | 9 43 | 1 21 | 2 22 | 2 6 | 5 41 | 0 45 | 18 49 | 0 9 | 19 44 | 3 43 | 6 36 | 7 4 | 27 19 | 0 7 | 4 19 |
| W11 | 18 1 | 19 20 | 4 17 | 24 18 | 2 17 | 5 56 | 1 47 | 17 52 | 1 59 | 9 43 | 1 21 | 2 20 | 2 6 | 5 40 | 0 45 | 18 49 | 0 9 | 19 44 | 3 43 | 6 40 | 7 5 | 27 20 | 0 8 | 4 19 |
| T 12 | 18 17 | 23 13 | 4 44 | 24 34 | 2 20 | 6 23 | 1 47 | 17 43 | 2 1 | 9 42 | 1 21 | 2 18 | 2 7 | 5 39 | 0 45 | 18 49 | 0 9 | 19 44 | 3 43 | 6 45 | 7 6 | 27 21 | 0 9 | 4 19 |
| F 13 | 18 31 | 26 7 | 4 59 | 24 47 | 2 21 | 6 50 | 1 47 | 17 34 | 2 3 | 9 41 | 1 21 | 2 16 | 2 7 | 5 39 | 0 45 | 18 49 | 0 9 | 19 45 | 3 43 | 6 49 | 7 8 | 27 22 | 0 10 | 4 19 |
| S 14 | 18 46 | 27 50 | 5 0 | 24 58 | 2 22 | 7 16 | 1 47 | 17 24 | 2 5 | 9 40 | 1 20 | 2 14 | 2 7 | 5 38 | 0 45 | 18 49 | 0 9 | 19 45 | 3 43 | 6 54 | 7 9 | 27 23 | 0 11 | 4 19 |
| S 15 | 19 0 | 28 17 | 4 48 | 25 7 | 2 22 | 7 43 | 1 47 | 17 15 | 2 8 | 9 40 | 1 20 | 2 12 | 2 7 | 5 37 | 0 45 | 18 49 | 0 9 | 19 45 | 3 43 | 6 59 | 7 10 | 27 24 | 0 12 | 4 20 |
| M16 | 19 14 | 27 25 | 4 24 | 25 14 | 2 21 | 8 10 | 1 46 | 17 6 | 2 10 | 9 39 | 1 20 | 2 10 | 2 8 | 5 37 | 0 45 | 18 49 | 0 9 | 19 45 | 3 43 | 7 2 | 7 11 | 27 25 | 0 13 | 4 20 |
| T 17 | 19 27 | 25 18 | 3 48 | 25 20 | 2 19 | 8 36 | 1 46 | 16 56 | 2 12 | 9 38 | 1 20 | 2 8 | 2 8 | 5 36 | 0 45 | 18 49 | 0 9 | 19 45 | 3 42 | 7 5 | 7 12 | 27 26 | 0 14 | 4 20 |
| W18 | 19 41 | 22 0 | 3 2 | 25 23 | 2 16 | 9 2 | 1 46 | 16 47 | 2 14 | 9 37 | 1 20 | 2 6 | 2 8 | 5 35 | 0 46 | 18 49 | 0 9 | 19 45 | 3 42 | 7 7 | 7 14 | 27 26 | 0 15 | 4 20 |
| T 19 | 19 54 | 17 42 | 2 6 | 25 24 | 2 13 | 9 28 | 1 45 | 16 37 | 2 16 | 9 35 | 1 19 | 2 4 | 2 8 | 5 35 | 0 46 | 18 49 | 0 9 | 19 45 | 3 42 | 7 7 | 7 15 | 27 27 | 0 16 | 4 20 |
| F 20 | 20 6 | 12 33 | 1 3 | 25 24 | 2 8 | 9 54 | 1 45 | 16 28 | 2 19 | 9 34 | 1 19 | 2 3 | 2 8 | 5 34 | 0 46 | 18 49 | 0 9 | 19 45 | 3 42 | 7 8 | 7 16 | 27 28 | 0 17 | 4 20 |
| S 21 | 20 18 | 6 44 | 0n 4 | 25 22 | 2 3 | 10 20 | 1 44 | 16 18 | 2 21 | 9 33 | 1 19 | 2 1 | 2 9 | 5 34 | 0 46 | 18 49 | 0 9 | 19 45 | 3 42 | 7 8 | 7 17 | 27 29 | 0 17 | 4 20 |
| S 22 | 20 30 | 0 27 | 1 14 | 25 18 | 1 57 | 10 45 | 1 43 | 16 9 | 2 23 | 9 32 | 1 19 | 1 59 | 2 9 | 5 33 | 0 46 | 18 49 | 0 9 | 19 45 | 3 42 | 7 8 | 7 19 | 27 30 | 0 18 | 4 21 |
| M23 | 20 42 | 6n 5 | 2 22 | 25 13 | 1 50 | 11 10 | 1 43 | 15 59 | 2 25 | 9 30 | 1 19 | 1 57 | 2 9 | 5 32 | 0 46 | 18 50 | 0 9 | 19 45 | 3 42 | 7 9 | 7 20 | 27 31 | 0 19 | 4 21 |
| T 24 | 20 53 | 12 31 | 3 23 | 25 7 | 1 42 | 11 35 | 1 42 | 15 49 | 2 28 | 9 29 | 1 18 | 1 56 | 2 9 | 5 32 | 0 46 | 18 50 | 0 9 | 19 45 | 3 42 | 7 10 | 7 21 | 27 32 | 0 20 | 4 21 |
| W25 | 21 4 | 18 28 | 4 13 | 24 59 | 1 33 | 12 0 | 1 41 | 15 40 | 2 30 | 9 27 | 1 18 | 1 54 | 2 9 | 5 31 | 0 46 | 18 50 | 0 9 | 19 45 | 3 42 | 7 13 | 7 22 | 27 32 | 0 21 | 4 21 |
| T 26 | 21 14 | 23 25 | 4 46 | 24 51 | 1 23 | 12 25 | 1 40 | 15 30 | 2 32 | 9 26 | 1 18 | 1 53 | 2 10 | 5 31 | 0 46 | 18 50 | 0 9 | 19 46 | 3 42 | 7 17 | 7 23 | 27 33 | 0 21 | 4 21 |
| F 27 | 21 24 | 26 49 | 5 0 | 24 41 | 1 12 | 12 49 | 1 39 | 15 21 | 2 35 | 9 24 | 1 18 | 1 51 | 2 10 | 5 31 | 0 46 | 18 50 | 0 9 | 19 46 | 3 41 | 7 21 | 7 25 | 27 34 | 0 22 | 4 22 |
| S 28 | 21 34 | 28 14 | 4 52 | 24 30 | 1 1 | 13 13 | 1 38 | 15 11 | 2 37 | 9 22 | 1 18 | 1 50 | 2 10 | 5 30 | 0 46 | 18 50 | 0 9 | 19 46 | 3 41 | 7 25 | 7 26 | 27 35 | 0 23 | 4 22 |
| S 29 | 21 43 | 27 31 | 4 24 | 24 18 | 0 49 | 13 36 | 1 37 | 15 1 | 2 39 | 9 20 | 1 17 | 1 48 | 2 10 | 5 30 | 0 46 | 18 51 | 0 9 | 19 46 | 3 41 | 7 29 | 7 27 | 27 36 | 0 24 | 4 22 |
| M30 | 21 52 | 24 51 | 3 38 | 24 5 | 0 36 | 14 0 | 1 35 | 14 52 | 2 42 | 9 19 | 1 17 | 1 47 | 2 11 | 5 29 | 0 46 | 18 51 | 0 9 | 19 46 | 3 41 | 7 31 | 7 28 | 27 37 | 0 24 | 4 22 |
| T 31 | 22n 1 | 20n40 | 2n40 | 23n51 | 0n22 | 14n23 | 1s34 | 14s42 | 2s44 | 9n17 | 1n17 | 1s45 | 2s11 | 5s29 | 0s46 | 18s51 | 0n 9 | 19n46 | 3s41 | 7s33 | 7s29 | 27s37 | 0n25 | 4n22 |

Julian Day Number = 2331866.5, Delta T = 28.26 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°09'59, Lahiri = 19°17'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## JUNE 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 40 54 | 11♊ 5'27 | 22♌41 | 0♋10 | 14♉34 | 28♒43 | 9♍24 | 0♈41 | 17♓57 | 5°R15 | 3♋ 5 | 10°R43 | 10♓51 | 14♐ 6 | 20♓57 | W 1 |
| T 2 | 16 44 50 | 12° 2'50 | 6♍ 6 | 0°20 | 15°46 | 29°16 | 9°29 | 0°45 | 17°58 | 5♒14 | 3° 7 | 10♓42 | 10°48 | 14°13 | 20°58 | T 2 |
| F 3 | 16 48 47 | 13° 0'12 | 19° 7 | 0°26 | 16°58 | 29°50 | 9°34 | 0°49 | 17°59 | 5°14 | 3° 8 | 10°42 | 10°45 | 14°20 | 20°59 | F 3 |
| S 4 | 16 52 43 | 13°57'33 | 1♎48 | 0°R28 | 18°11 | 0♓23 | 9°39 | 0°53 | 18° 0 | 5°13 | 3° 9 | 10°41 | 10°42 | 14°26 | 21° 0 | S 4 |
| S 5 | 16 56 40 | 14°54'53 | 14°12 | 0°25 | 19°23 | 0°56 | 9°44 | 0°56 | 18° 1 | 5°12 | 3°11 | 10°39 | 10°39 | 14°33 | 21° 1 | S 5 |
| M 6 | 17 0 36 | 15°52'12 | 26°23 | 0°17 | 20°35 | 1°29 | 9°50 | 1° 0 | 18° 2 | 5°11 | 3°12 | 10°34 | 10°35 | 14°40 | 21° 2 | M 6 |
| T 7 | 17 4 33 | 16°49'30 | 8♏26 | 0° 6 | 21°48 | 2° 1 | 9°55 | 1° 4 | 18° 3 | 5°10 | 3°14 | 10°26 | 10°32 | 14°47 | 21° 3 | T 7 |
| W 8 | 17 8 29 | 17°46'47 | 20°24 | 29♊50 | 23° 0 | 2°34 | 10° 1 | 1° 7 | 18° 3 | 5° 9 | 3°15 | 10°16 | 10°29 | 14°53 | 21° 4 | W 8 |
| T 9 | 17 12 26 | 18°44'04 | 2♐18 | 29°30 | 24°13 | 3° 6 | 10° 7 | 1°10 | 18° 4 | 5° 8 | 3°17 | 10° 3 | 10°26 | 15° 0 | 21° 5 | T 9 |
| F 10 | 17 16 23 | 19°41'20 | 14°11 | 29° 7 | 25°25 | 3°38 | 10°13 | 1°14 | 18° 5 | 5° 7 | 3°18 | 9°50 | 10°23 | 15° 7 | 21° 6 | F 10 |
| S 11 | 17 20 19 | 20°38'35 | 26° 3 | 28°41 | 26°38 | 4° 9 | 10°19 | 1°17 | 18° 5 | 5° 6 | 3°19 | 9°36 | 10°19 | 15°14 | 21° 6 | S 11 |
| S 12 | 17 24 16 | 21°35'50 | 7♑58 | 28°12 | 27°50 | 4°41 | 10°26 | 1°20 | 18° 6 | 5° 5 | 3°21 | 9°24 | 10°16 | 15°20 | 21° 7 | S 12 |
| M13 | 17 28 12 | 22°33'04 | 19°55 | 27°41 | 29° 3 | 5°12 | 10°32 | 1°23 | 18° 6 | 5° 4 | 3°22 | 9°14 | 10°13 | 15°27 | 21° 7 | M13 |
| T 14 | 17 32 9 | 23°30'18 | 1♒58 | 27° 9 | 0♊15 | 5°43 | 10°39 | 1°26 | 18° 7 | 5° 3 | 3°24 | 9° 6 | 10°10 | 15°34 | 21° 8 | T 14 |
| W15 | 17 36 5 | 24°27'31 | 14° 8 | 26°35 | 1°28 | 6°14 | 10°45 | 1°29 | 18° 7 | 5° 2 | 3°25 | 9° 1 | 10° 7 | 15°40 | 21° 8 | W15 |
| T 16 | 17 40 2 | 25°24'45 | 26°28 | 26° 0 | 2°41 | 6°44 | 10°52 | 1°31 | 18° 7 | 5° 1 | 3°27 | 8°59 | 10° 4 | 15°47 | 21° 9 | T 16 |
| F 17 | 17 43 58 | 26°21'58 | 9♓ 3 | 25°25 | 3°53 | 7°14 | 10°59 | 1°34 | 18° 8 | 5° 0 | 3°28 | 8°D58 | 10° 0 | 15°54 | 21° 9 | F 17 |
| S 18 | 17 47 55 | 27°19'11 | 21°57 | 24°51 | 5° 6 | 7°44 | 11° 6 | 1°37 | 18° 8 | 4°58 | 3°30 | 8°R58 | 9°57 | 16° 1 | 21°10 | S 18 |
| S 19 | 17 51 52 | 28°16'23 | 5♈12 | 24°18 | 6°19 | 8°13 | 11°14 | 1°39 | 18° 8 | 4°57 | 3°31 | 8°58 | 9°54 | 16° 7 | 21°10 | S 19 |
| M20 | 17 55 48 | 29°13'36 | 18°53 | 23°47 | 7°31 | 8°43 | 11°21 | 1°41 | 18° 8 | 4°56 | 3°33 | 8°57 | 9°51 | 16°14 | 21°10 | M20 |
| T 21 | 17 59 45 | 0♋10'49 | 3♉ 1 | 23°18 | 8°44 | 9°12 | 11°29 | 1°44 | 18° 8 | 4°55 | 3°34 | 8°53 | 9°48 | 16°21 | 21°10 | T 21 |
| W22 | 18 3 41 | 1° 8'02 | 17°36 | 22°52 | 9°57 | 9°40 | 11°36 | 1°46 | 18°R 8 | 4°53 | 3°36 | 8°47 | 9°45 | 16°27 | 21°10 | W22 |
| T 23 | 18 7 38 | 2° 5'15 | 2♊32 | 22°29 | 11°10 | 10° 8 | 11°44 | 1°48 | 18° 8 | 4°52 | 3°37 | 8°39 | 9°41 | 16°34 | 21°R10 | T 23 |
| F 24 | 18 11 34 | 3° 2'28 | 17°43 | 22°10 | 12°22 | 10°36 | 11°52 | 1°50 | 18° 8 | 4°51 | 3°39 | 8°30 | 9°38 | 16°41 | 21°10 | F 24 |
| S 25 | 18 15 31 | 3°59'41 | 2♋58 | 21°55 | 13°35 | 11° 4 | 12° 0 | 1°52 | 18° 8 | 4°50 | 3°40 | 8°21 | 9°35 | 16°48 | 21°10 | S 25 |
| S 26 | 18 19 27 | 4°56'54 | 18° 7 | 21°44 | 14°48 | 11°31 | 12° 8 | 1°53 | 18° 8 | 4°48 | 3°42 | 8°13 | 9°32 | 16°54 | 21°10 | S 26 |
| M27 | 18 23 24 | 5°54'07 | 2♌59 | 21°37 | 16° 1 | 11°58 | 12°16 | 1°55 | 18° 8 | 4°47 | 3°43 | 8° 6 | 9°29 | 17° 1 | 21°10 | M27 |
| T 28 | 18 27 21 | 6°51'20 | 17°28 | 21°D35 | 17°14 | 12°24 | 12°24 | 1°57 | 18° 7 | 4°45 | 3°45 | 8° 2 | 9°25 | 17° 8 | 21°10 | T 28 |
| W29 | 18 31 17 | 7°48'32 | 1♍28 | 21°38 | 18°27 | 12°50 | 12°33 | 1°58 | 18° 7 | 4°44 | 3°46 | 8° 1 | 9°22 | 17°15 | 21° 9 | W29 |
| T 30 | 18 35 14 | 8♋45'44 | 15♍ 0 | 21♊46 | 19♊40 | 13♓15 | 12♍42 | 1♈59 | 18♓ 7 | 4♒43 | 3♋48 | 8°D 1 | 9♓19 | 17♐21 | 21♓ 9 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 22n 9 | 15n27 | 1n34 | 23n37 | 0n 8 | 14n46 | 1s33 | 14s33 | 2s47 | 9n15 | 1n17 | 1s44 | 2s11 | 5s28 | 0s46 | 18s51 | 0n 9 | 19n46 | 3s41 | 7s34 | 7s31 | 27s38 | 0n26 | 4n22 |
| T 2 | 22 17 | 9 40 | 0 24 | 23 22 | 0s 7 | 15 8 | 1 31 | 14 23 | 2 49 | 9 13 | 1 17 | 1 42 | 2 11 | 5 28 | 0 46 | 18 51 | 0 9 | 19 46 | 3 41 | 7 34 | 7 32 | 27 39 | 0 26 | 4 23 |
| F 3 | 22 24 | 3 38 | 0s44 | 23 6 | 0 23 | 15 30 | 1 30 | 14 14 | 2 51 | 9 11 | 1 16 | 1 41 | 2 12 | 5 28 | 0 46 | 18 51 | 0 9 | 19 46 | 3 41 | 7 34 | 7 33 | 27 40 | 0 27 | 4 23 |
| S 4 | 22 31 | 2s23 | 1 49 | 22 50 | 0 39 | 15 52 | 1 28 | 14 4 | 2 54 | 9 8 | 1 16 | 1 40 | 2 12 | 5 27 | 0 46 | 18 52 | 0 9 | 19 46 | 3 41 | 7 34 | 7 34 | 27 40 | 0 27 | 4 23 |
| S 5 | 22 38 | 8 10 | 2 47 | 22 34 | 0 55 | 16 13 | 1 27 | 13 55 | 2 56 | 9 6 | 1 16 | 1 39 | 2 12 | 5 27 | 0 46 | 18 52 | 0 9 | 19 46 | 3 41 | 7 35 | 7 35 | 27 41 | 0 28 | 4 23 |
| M 6 | 22 44 | 13 33 | 3 36 | 22 17 | 1 12 | 16 34 | 1 25 | 13 45 | 2 59 | 9 4 | 1 16 | 1 37 | 2 12 | 5 27 | 0 46 | 18 52 | 0 9 | 19 46 | 3 41 | 7 37 | 7 37 | 27 42 | 0 28 | 4 23 |
| T 7 | 22 50 | 18 22 | 4 15 | 22 0 | 1 29 | 16 54 | 1 24 | 13 36 | 3 1 | 9 2 | 1 16 | 1 36 | 2 13 | 5 27 | 0 46 | 18 52 | 0 9 | 19 46 | 3 41 | 7 40 | 7 38 | 27 43 | 0 29 | 4 24 |
| W 8 | 22 55 | 22 24 | 4 42 | 21 43 | 1 46 | 17 14 | 1 22 | 13 26 | 3 4 | 8 59 | 1 15 | 1 35 | 2 13 | 5 26 | 0 46 | 18 53 | 0 9 | 19 46 | 3 40 | 7 44 | 7 39 | 27 43 | 0 30 | 4 24 |
| T 9 | 23 0 | 25 30 | 4 57 | 21 26 | 2 3 | 17 34 | 1 20 | 13 17 | 3 7 | 8 57 | 1 15 | 1 34 | 2 13 | 5 26 | 0 46 | 18 53 | 0 9 | 19 46 | 3 40 | 7 49 | 7 40 | 27 44 | 0 30 | 4 24 |
| F 10 | 23 5 | 27 29 | 4 59 | 21 9 | 2 19 | 17 53 | 1 18 | 13 8 | 3 9 | 8 54 | 1 15 | 1 33 | 2 13 | 5 26 | 0 46 | 18 53 | 0 9 | 19 46 | 3 40 | 7 54 | 7 41 | 27 45 | 0 30 | 4 24 |
| S 11 | 23 9 | 28 13 | 4 48 | 20 53 | 2 36 | 18 12 | 1 16 | 12 59 | 3 12 | 8 52 | 1 15 | 1 32 | 2 14 | 5 26 | 0 46 | 18 53 | 0 9 | 19 46 | 3 40 | 7 59 | 7 43 | 27 45 | 0 31 | 4 24 |
| S 12 | 23 13 | 27 38 | 4 24 | 20 37 | 2 52 | 18 30 | 1 14 | 12 50 | 3 14 | 8 49 | 1 15 | 1 31 | 2 14 | 5 26 | 0 46 | 18 54 | 0 9 | 19 46 | 3 40 | 8 4 | 7 44 | 27 46 | 0 31 | 4 24 |
| M13 | 23 16 | 25 46 | 3 48 | 20 21 | 3 7 | 18 48 | 1 12 | 12 40 | 3 17 | 8 47 | 1 15 | 1 30 | 2 14 | 5 25 | 0 46 | 18 54 | 0 9 | 19 46 | 3 40 | 8 7 | 7 45 | 27 47 | 0 32 | 4 25 |
| T 14 | 23 19 | 22 43 | 3 2 | 20 6 | 3 21 | 19 6 | 1 10 | 12 31 | 3 20 | 8 44 | 1 14 | 1 29 | 2 14 | 5 25 | 0 47 | 18 54 | 0 9 | 19 46 | 3 40 | 8 10 | 7 46 | 27 48 | 0 32 | 4 25 |
| W15 | 23 22 | 18 39 | 2 8 | 19 52 | 3 35 | 19 23 | 1 8 | 12 22 | 3 22 | 8 41 | 1 14 | 1 28 | 2 15 | 5 25 | 0 47 | 18 54 | 0 9 | 19 46 | 3 40 | 8 12 | 7 47 | 27 48 | 0 32 | 4 25 |
| T 16 | 23 24 | 13 45 | 1 6 | 19 38 | 3 47 | 19 39 | 1 6 | 12 14 | 3 25 | 8 39 | 1 14 | 1 27 | 2 15 | 5 25 | 0 47 | 18 55 | 0 9 | 19 47 | 3 40 | 8 13 | 7 49 | 27 49 | 0 33 | 4 25 |
| F 17 | 23 26 | 8 11 | 0n 0 | 19 26 | 3 58 | 19 55 | 1 4 | 12 5 | 3 28 | 8 36 | 1 14 | 1 27 | 2 15 | 5 25 | 0 47 | 18 55 | 0 9 | 19 47 | 3 40 | 8 13 | 7 50 | 27 49 | 0 33 | 4 25 |
| S 18 | 23 27 | 2 9 | 1 8 | 19 15 | 4 8 | 20 10 | 1 2 | 11 56 | 3 30 | 8 33 | 1 14 | 1 26 | 2 15 | 5 25 | 0 47 | 18 55 | 0 8 | 19 47 | 3 40 | 8 13 | 7 51 | 27 50 | 0 33 | 4 26 |
| S 19 | 23 28 | 4n 8 | 2 14 | 19 5 | 4 17 | 20 25 | 1 0 | 11 48 | 3 33 | 8 30 | 1 13 | 1 25 | 2 16 | 5 25 | 0 47 | 18 56 | 0 8 | 19 47 | 3 40 | 8 13 | 7 52 | 27 51 | 0 34 | 4 26 |
| M20 | 23 29 | 10 25 | 3 15 | 18 57 | 4 24 | 20 40 | 0 57 | 11 39 | 3 36 | 8 27 | 1 13 | 1 24 | 2 16 | 5 25 | 0 47 | 18 56 | 0 8 | 19 47 | 3 40 | 8 14 | 7 53 | 27 51 | 0 34 | 4 26 |
| T 21 | 23 29 | 16 23 | 4 6 | 18 50 | 4 30 | 20 53 | 0 55 | 11 31 | 3 39 | 8 24 | 1 13 | 1 24 | 2 16 | 5 25 | 0 47 | 18 56 | 0 8 | 19 47 | 3 40 | 8 15 | 7 55 | 27 52 | 0 34 | 4 26 |
| W22 | 23 29 | 21 38 | 4 42 | 18 44 | 4 34 | 21 7 | 0 53 | 11 22 | 3 41 | 8 21 | 1 13 | 1 23 | 2 17 | 5 25 | 0 47 | 18 57 | 0 8 | 19 47 | 3 40 | 8 17 | 7 56 | 27 53 | 0 34 | 4 26 |
| T 23 | 23 28 | 25 37 | 5 1 | 18 40 | 4 37 | 21 19 | 0 51 | 11 14 | 3 44 | 8 18 | 1 13 | 1 23 | 2 17 | 5 25 | 0 47 | 18 57 | 0 8 | 19 47 | 3 39 | 8 20 | 7 57 | 27 53 | 0 35 | 4 27 |
| F 24 | 23 27 | 27 52 | 4 59 | 18 38 | 4 38 | 21 31 | 0 48 | 11 6 | 3 47 | 8 15 | 1 13 | 1 22 | 2 17 | 5 25 | 0 47 | 18 57 | 0 8 | 19 47 | 3 39 | 8 24 | 7 58 | 27 54 | 0 35 | 4 27 |
| S 25 | 23 25 | 28 3 | 4 36 | 18 37 | 4 37 | 21 43 | 0 46 | 10 58 | 3 50 | 8 11 | 1 13 | 1 22 | 2 17 | 5 25 | 0 47 | 18 57 | 0 8 | 19 47 | 3 39 | 8 27 | 7 59 | 27 54 | 0 35 | 4 27 |
| S 26 | 23 23 | 26 6 | 3 53 | 18 38 | 4 36 | 21 54 | 0 43 | 10 51 | 3 53 | 8 8 | 1 12 | 1 21 | 2 18 | 5 25 | 0 47 | 18 58 | 0 8 | 19 47 | 3 39 | 8 30 | 8 1 | 27 55 | 0 35 | 4 27 |
| M27 | 23 21 | 22 22 | 2 55 | 18 41 | 4 33 | 22 4 | 0 41 | 10 43 | 3 56 | 8 5 | 1 12 | 1 21 | 2 18 | 5 25 | 0 47 | 18 58 | 0 8 | 19 47 | 3 39 | 8 33 | 8 2 | 27 56 | 0 35 | 4 27 |
| T 28 | 23 18 | 17 20 | 1 47 | 18 45 | 4 29 | 22 14 | 0 39 | 10 35 | 3 58 | 8 2 | 1 12 | 1 20 | 2 18 | 5 26 | 0 47 | 18 58 | 0 8 | 19 47 | 3 39 | 8 34 | 8 3 | 27 56 | 0 35 | 4 27 |
| W29 | 23 15 | 11 31 | 0 35 | 18 50 | 4 23 | 22 23 | 0 36 | 10 28 | 4 1 | 7 58 | 1 12 | 1 20 | 2 18 | 5 26 | 0 47 | 18 59 | 0 8 | 19 47 | 3 39 | 8 35 | 8 4 | 27 57 | 0 35 | 4 28 |
| T 30 | 23n12 | 5n21 | 0s37 | 18n57 | 4s17 | 22n31 | 0s34 | 10s21 | 4s 4 | 7n55 | 1n12 | 1s20 | 2s19 | 5s26 | 0s47 | 18s59 | 0n 8 | 19n47 | 3s39 | 8s35 | 8s 5 | 27s57 | 0n35 | 4n28 |

Julian Day Number = 2331897.5, Delta T = 28.21 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'04, Lahiri = 19°17'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## JULY 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 39 10 | 9♋42'55 | 28♍ 6 | 21♊59 | 20♊53 | 13♓40 | 12♍50 | 2♈ 1 | 18°R 6 | 4°R41 | 3♋49 | 8♓ 1 | 9♓16 | 17♐28 | 21°R 9 | F 1 |
| S 2 | 18 43 7 | 10°40'07 | 10♎48 | 22°17 | 22° 6 | 14° 5 | 12°59 | 2° 2 | 18♓ 6 | 4♒40 | 3°51 | 8°R 2 | 9°13 | 17°35 | 21♓ 8 | S 2 |
| S 3 | 18 47 3 | 11°37'18 | 23°12 | 22°41 | 23°19 | 14°30 | 13° 8 | 2° 3 | 18° 5 | 4°38 | 3°52 | 8° 1 | 9°10 | 17°41 | 21° 8 | S 3 |
| M 4 | 18 51 0 | 12°34'29 | 5♏22 | 23° 9 | 24°32 | 14°53 | 13°17 | 2° 4 | 18° 5 | 4°37 | 3°54 | 7°58 | 9° 6 | 17°48 | 21° 7 | M 4 |
| T 5 | 18 54 56 | 13°31'41 | 17°22 | 23°43 | 25°45 | 15°17 | 13°26 | 2° 5 | 18° 4 | 4°35 | 3°55 | 7°54 | 9° 3 | 17°55 | 21° 7 | T 5 |
| W 6 | 18 58 53 | 14°28'52 | 29°16 | 24°21 | 26°58 | 15°40 | 13°35 | 2° 6 | 18° 4 | 4°34 | 3°57 | 7°47 | 9° 0 | 18° 2 | 21° 6 | W 6 |
| T 7 | 19 2 50 | 15°26'03 | 11♐ 8 | 25° 5 | 28°11 | 16° 2 | 13°44 | 2° 6 | 18° 3 | 4°32 | 3°58 | 7°38 | 8°57 | 18° 8 | 21° 5 | T 7 |
| F 8 | 19 6 46 | 16°23'15 | 23° 1 | 25°53 | 29°24 | 16°24 | 13°54 | 2° 7 | 18° 2 | 4°31 | 3°59 | 7°29 | 8°54 | 18°15 | 21° 4 | F 8 |
| S 9 | 19 10 43 | 17°20'26 | 4♑56 | 26°47 | 0♋37 | 16°46 | 14° 3 | 2° 7 | 18° 1 | 4°29 | 4° 1 | 7°19 | 8°51 | 18°22 | 21° 4 | S 9 |
| S 10 | 19 14 39 | 18°17'38 | 16°56 | 27°45 | 1°51 | 17° 7 | 14°13 | 2° 8 | 18° 1 | 4°28 | 4° 2 | 7°11 | 8°47 | 18°29 | 21° 3 | S 10 |
| M11 | 19 18 36 | 19°14'51 | 29° 1 | 28°49 | 3° 4 | 17°27 | 14°23 | 2° 8 | 18° 0 | 4°26 | 4° 4 | 7° 4 | 8°44 | 18°35 | 21° 2 | M11 |
| T 12 | 19 22 32 | 20°12'03 | 11♒14 | 29°57 | 4°17 | 17°47 | 14°32 | 2° 8 | 17°59 | 4°25 | 4° 5 | 6°59 | 8°41 | 18°42 | 21° 1 | T 12 |
| W13 | 19 26 29 | 21° 9'17 | 23°35 | 1♋10 | 5°30 | 18° 6 | 14°42 | 2°R 8 | 17°58 | 4°23 | 4° 7 | 6°56 | 8°38 | 18°49 | 21° 0 | W13 |
| T 14 | 19 30 26 | 22° 6'31 | 6♓ 7 | 2°27 | 6°44 | 18°25 | 14°52 | 2° 8 | 17°57 | 4°22 | 4° 8 | 6°D55 | 8°35 | 18°55 | 20°59 | T 14 |
| F 15 | 19 34 22 | 23° 3'45 | 18°51 | 3°49 | 7°57 | 18°44 | 15° 2 | 2° 8 | 17°56 | 4°20 | 4°10 | 6°55 | 8°31 | 19° 2 | 20°58 | F 15 |
| S 16 | 19 38 19 | 24° 1'00 | 1♈51 | 5°15 | 9°10 | 19° 1 | 15°12 | 2° 8 | 17°55 | 4°18 | 4°11 | 6°57 | 8°28 | 19° 9 | 20°56 | S 16 |
| S 17 | 19 42 15 | 24°58'16 | 15°10 | 6°45 | 10°24 | 19°18 | 15°23 | 2° 7 | 17°54 | 4°17 | 4°12 | 6°58 | 8°25 | 19°16 | 20°55 | S 17 |
| M18 | 19 46 12 | 25°55'33 | 28°48 | 8°20 | 11°37 | 19°35 | 15°33 | 2° 7 | 17°52 | 4°15 | 4°14 | 6°R58 | 8°22 | 19°22 | 20°54 | M18 |
| T 19 | 19 50 8 | 26°52'51 | 12♉48 | 9°59 | 12°51 | 19°51 | 15°43 | 2° 6 | 17°51 | 4°14 | 4°15 | 6°57 | 8°19 | 19°29 | 20°53 | T 19 |
| W20 | 19 54 5 | 27°50'10 | 27° 9 | 11°41 | 14° 4 | 20° 6 | 15°54 | 2° 6 | 17°50 | 4°12 | 4°17 | 6°54 | 8°16 | 19°36 | 20°51 | W20 |
| T 21 | 19 58 1 | 28°47'30 | 11♊48 | 13°27 | 15°18 | 20°20 | 16° 4 | 2° 5 | 17°49 | 4°10 | 4°18 | 6°50 | 8°12 | 19°42 | 20°50 | T 21 |
| F 22 | 20 1 58 | 29°44'51 | 26°40 | 15°16 | 16°31 | 20°34 | 16°15 | 2° 4 | 17°47 | 4° 9 | 4°19 | 6°45 | 8° 9 | 19°49 | 20°48 | F 22 |
| S 23 | 20 5 55 | 0♌42'13 | 11♋38 | 17° 8 | 17°45 | 20°47 | 16°26 | 2° 3 | 17°46 | 4° 7 | 4°21 | 6°40 | 8° 6 | 19°56 | 20°47 | S 23 |
| S 24 | 20 9 51 | 1°39'36 | 26°33 | 19° 3 | 18°58 | 21° 0 | 16°36 | 2° 2 | 17°45 | 4° 5 | 4°22 | 6°35 | 8° 3 | 20° 3 | 20°45 | S 24 |
| M25 | 20 13 48 | 2°36'59 | 11♌16 | 21° 1 | 20°12 | 21°11 | 16°47 | 2° 1 | 17°43 | 4° 4 | 4°23 | 6°32 | 8° 0 | 20° 9 | 20°44 | M25 |
| T 26 | 20 17 44 | 3°34'24 | 25°40 | 23° 0 | 21°26 | 21°22 | 16°58 | 2° 0 | 17°42 | 4° 2 | 4°25 | 6°30 | 7°57 | 20°16 | 20°42 | T 26 |
| W27 | 20 21 41 | 4°31'49 | 9♍41 | 25° 1 | 22°39 | 21°33 | 17° 9 | 1°58 | 17°40 | 4° 1 | 4°26 | 6°D29 | 7°53 | 20°23 | 20°40 | W27 |
| T 28 | 20 25 37 | 5°29'14 | 23°16 | 27° 4 | 23°53 | 21°42 | 17°20 | 1°57 | 17°38 | 3°59 | 4°27 | 6°30 | 7°50 | 20°30 | 20°38 | T 28 |
| F 29 | 20 29 34 | 6°26'41 | 6♎26 | 29° 7 | 25° 7 | 21°51 | 17°31 | 1°55 | 17°37 | 3°57 | 4°29 | 6°32 | 7°47 | 20°36 | 20°37 | F 29 |
| S 30 | 20 33 30 | 7°24'08 | 19°12 | 1♌12 | 26°20 | 21°59 | 17°43 | 1°54 | 17°35 | 3°56 | 4°30 | 6°33 | 7°44 | 20°43 | 20°35 | S 30 |
| S 31 | 20 37 27 | 8♌21'36 | 1♏39 | 3♌16 | 27♋34 | 22♓ 6 | 17♍54 | 1♈52 | 17♓34 | 3♒54 | 4♋31 | 6♓34 | 7♓41 | 20♐50 | 20♓33 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 23n 8 | 0s51 | 1s45 | 19n 6 | 4s 9 | 22n39 | 0s31 | 10s14 | 4s 7 | 7n51 | 1n12 | 1s19 | 2s19 | 5s26 | 0s47 | 19s 0 | 0n 8 | 19n47 | 3s39 | 8s35 | 8s 7 | 27s58 | 0n35 | 4n28 | F 1 |
| S 2 | 23 3 | 6 50 | 2 46 | 19 15 | 4 1 | 22 46 | 0 29 | 10 7 | 4 10 | 7 48 | 1 11 | 1 19 | 2 19 | 5 26 | 0 47 | 19 0 | 0 8 | 19 47 | 3 39 | 8 34 | 8 8 | 27 58 | 0 35 | 4 28 | S 2 |
| S 3 | 22 58 | 12 24 | 3 37 | 19 26 | 3 51 | 22 53 | 0 26 | 10 0 | 4 13 | 7 44 | 1 11 | 1 19 | 2 20 | 5 27 | 0 47 | 19 0 | 0 8 | 19 47 | 3 39 | 8 35 | 8 9 | 27 59 | 0 35 | 4 28 | S 3 |
| M 4 | 22 53 | 17 23 | 4 18 | 19 37 | 3 41 | 22 59 | 0 24 | 9 53 | 4 16 | 7 41 | 1 11 | 1 19 | 2 20 | 5 27 | 0 47 | 19 1 | 0 8 | 19 47 | 3 39 | 8 36 | 8 10 | 27 59 | 0 35 | 4 29 | M 4 |
| T 5 | 22 48 | 21 37 | 4 46 | 19 50 | 3 30 | 23 4 | 0 21 | 9 47 | 4 19 | 7 37 | 1 11 | 1 19 | 2 20 | 5 27 | 0 47 | 19 1 | 0 8 | 19 47 | 3 39 | 8 37 | 8 11 | 28 0 | 0 35 | 4 29 | T 5 |
| W 6 | 22 42 | 24 57 | 5 2 | 20 3 | 3 19 | 23 8 | 0 19 | 9 41 | 4 22 | 7 33 | 1 11 | 1 19 | 2 20 | 5 27 | 0 47 | 19 1 | 0 8 | 19 47 | 3 39 | 8 40 | 8 13 | 28 0 | 0 35 | 4 29 | W 6 |
| T 7 | 22 35 | 27 11 | 5 5 | 20 17 | 3 7 | 23 12 | 0 16 | 9 35 | 4 25 | 7 30 | 1 11 | 1 19 | 2 21 | 5 28 | 0 47 | 19 2 | 0 8 | 19 47 | 3 39 | 8 43 | 8 14 | 28 1 | 0 35 | 4 29 | T 7 |
| F 8 | 22 29 | 28 12 | 4 55 | 20 31 | 2 55 | 23 15 | 0 14 | 9 29 | 4 28 | 7 26 | 1 11 | 1 19 | 2 21 | 5 28 | 0 47 | 19 2 | 0 8 | 19 47 | 3 39 | 8 47 | 8 15 | 28 1 | 0 35 | 4 29 | F 8 |
| S 9 | 22 21 | 27 55 | 4 31 | 20 45 | 2 42 | 23 18 | 0 11 | 9 23 | 4 30 | 7 22 | 1 11 | 1 19 | 2 21 | 5 28 | 0 47 | 19 2 | 0 8 | 19 47 | 3 39 | 8 50 | 8 16 | 28 2 | 0 35 | 4 29 | S 9 |
| S 10 | 22 14 | 26 19 | 3 56 | 20 59 | 2 28 | 23 20 | 0 8 | 9 18 | 4 33 | 7 18 | 1 10 | 1 19 | 2 22 | 5 29 | 0 47 | 19 3 | 0 8 | 19 47 | 3 39 | 8 53 | 8 17 | 28 2 | 0 34 | 4 30 | S 10 |
| M11 | 22 6 | 23 29 | 3 10 | 21 14 | 2 15 | 23 21 | 0 6 | 9 12 | 4 36 | 7 14 | 1 10 | 1 19 | 2 22 | 5 29 | 0 48 | 19 3 | 0 8 | 19 47 | 3 39 | 8 56 | 8 19 | 28 3 | 0 34 | 4 30 | M11 |
| T 12 | 21 58 | 19 35 | 2 14 | 21 28 | 2 1 | 23 21 | 0 3 | 9 7 | 4 39 | 7 11 | 1 10 | 1 19 | 2 22 | 5 29 | 0 48 | 19 4 | 0 8 | 19 47 | 3 39 | 8 58 | 8 20 | 28 3 | 0 34 | 4 30 | T 12 |
| W13 | 21 49 | 14 48 | 1 11 | 21 41 | 1 47 | 23 21 | 0 1 | 9 2 | 4 42 | 7 7 | 1 10 | 1 20 | 2 22 | 5 30 | 0 48 | 19 4 | 0 8 | 19 47 | 3 39 | 8 59 | 8 21 | 28 3 | 0 34 | 4 30 | W13 |
| T 14 | 21 40 | 9 21 | 0 4 | 21 54 | 1 33 | 23 20 | 0n 2 | 8 57 | 4 45 | 7 3 | 1 10 | 1 20 | 2 23 | 5 30 | 0 48 | 19 4 | 0 8 | 19 47 | 3 39 | 8 59 | 8 22 | 28 4 | 0 33 | 4 30 | T 14 |
| F 15 | 21 31 | 3 26 | 1n 4 | 22 6 | 1 20 | 23 19 | 0 4 | 8 53 | 4 48 | 6 59 | 1 10 | 1 20 | 2 23 | 5 31 | 0 48 | 19 5 | 0 8 | 19 47 | 3 39 | 8 59 | 8 23 | 28 4 | 0 33 | 4 30 | F 15 |
| S 16 | 21 21 | 2n44 | 2 11 | 22 17 | 1 6 | 23 17 | 0 7 | 8 49 | 4 51 | 6 55 | 1 10 | 1 21 | 2 23 | 5 31 | 0 48 | 19 5 | 0 8 | 19 47 | 3 39 | 8 59 | 8 25 | 28 5 | 0 33 | 4 31 | S 16 |
| S 17 | 21 11 | 8 56 | 3 12 | 22 27 | 0 52 | 23 14 | 0 9 | 8 45 | 4 54 | 6 51 | 1 10 | 1 21 | 2 23 | 5 32 | 0 48 | 19 6 | 0 8 | 19 47 | 3 39 | 8 58 | 8 26 | 28 5 | 0 33 | 4 31 | S 17 |
| M18 | 21 0 | 14 52 | 4 4 | 22 35 | 0 38 | 23 10 | 0 12 | 8 41 | 4 57 | 6 46 | 1 9 | 1 21 | 2 24 | 5 32 | 0 48 | 19 6 | 0 8 | 19 47 | 3 38 | 8 58 | 8 27 | 28 6 | 0 32 | 4 31 | M18 |
| T 19 | 20 49 | 20 12 | 4 43 | 22 41 | 0 25 | 23 6 | 0 14 | 8 37 | 5 0 | 6 42 | 1 9 | 1 22 | 2 24 | 5 33 | 0 48 | 19 6 | 0 8 | 19 47 | 3 38 | 8 59 | 8 28 | 28 6 | 0 32 | 4 31 | T 19 |
| W20 | 20 38 | 24 31 | 5 6 | 22 46 | 0 12 | 23 1 | 0 16 | 8 34 | 5 3 | 6 38 | 1 9 | 1 22 | 2 24 | 5 33 | 0 48 | 19 7 | 0 8 | 19 47 | 3 38 | 9 0 | 8 29 | 28 6 | 0 31 | 4 31 | W20 |
| T 21 | 20 26 | 27 21 | 5 9 | 22 48 | 0n 0 | 22 55 | 0 19 | 8 31 | 5 6 | 6 34 | 1 9 | 1 23 | 2 25 | 5 34 | 0 48 | 19 7 | 0 8 | 19 47 | 3 38 | 9 1 | 8 30 | 28 7 | 0 31 | 4 31 | T 21 |
| F 22 | 20 15 | 28 18 | 4 52 | 22 49 | 0 12 | 22 49 | 0 21 | 8 28 | 5 9 | 6 30 | 1 9 | 1 23 | 2 25 | 5 34 | 0 48 | 19 7 | 0 8 | 19 47 | 3 38 | 9 3 | 8 32 | 28 7 | 0 31 | 4 31 | F 22 |
| S 23 | 20 2 | 27 12 | 4 15 | 22 46 | 0 24 | 22 42 | 0 24 | 8 25 | 5 11 | 6 25 | 1 9 | 1 24 | 2 25 | 5 35 | 0 48 | 19 8 | 0 8 | 19 46 | 3 38 | 9 5 | 8 33 | 28 7 | 0 30 | 4 32 | S 23 |
| S 24 | 19 50 | 24 10 | 3 20 | 22 42 | 0 34 | 22 34 | 0 26 | 8 23 | 5 14 | 6 21 | 1 9 | 1 25 | 2 25 | 5 35 | 0 48 | 19 8 | 0 8 | 19 46 | 3 38 | 9 7 | 8 34 | 28 8 | 0 30 | 4 32 | S 24 |
| M25 | 19 37 | 19 34 | 2 13 | 22 34 | 0 45 | 22 26 | 0 28 | 8 21 | 5 17 | 6 17 | 1 9 | 1 25 | 2 26 | 5 36 | 0 48 | 19 9 | 0 8 | 19 46 | 3 38 | 9 8 | 8 35 | 28 8 | 0 29 | 4 32 | M25 |
| T 26 | 19 23 | 13 54 | 0 59 | 22 24 | 0 54 | 22 17 | 0 30 | 8 19 | 5 20 | 6 12 | 1 9 | 1 26 | 2 26 | 5 37 | 0 48 | 19 9 | 0 8 | 19 46 | 3 38 | 9 9 | 8 36 | 28 8 | 0 29 | 4 32 | T 26 |
| W27 | 19 10 | 7 41 | 0s17 | 22 12 | 1 3 | 22 7 | 0 33 | 8 18 | 5 23 | 6 8 | 1 8 | 1 27 | 2 26 | 5 37 | 0 48 | 19 9 | 0 8 | 19 46 | 3 38 | 9 9 | 8 38 | 28 9 | 0 28 | 4 32 | W27 |
| T 28 | 18 56 | 1 18 | 1 30 | 21 56 | 1 11 | 21 57 | 0 35 | 8 16 | 5 25 | 6 4 | 1 8 | 1 28 | 2 26 | 5 38 | 0 48 | 19 10 | 0 8 | 19 46 | 3 38 | 9 9 | 8 39 | 28 9 | 0 27 | 4 32 | T 28 |
| F 29 | 18 42 | 4s57 | 2 36 | 21 38 | 1 18 | 21 46 | 0 37 | 8 15 | 5 28 | 5 59 | 1 8 | 1 29 | 2 27 | 5 38 | 0 48 | 19 10 | 0 8 | 19 46 | 3 38 | 9 8 | 8 40 | 28 9 | 0 27 | 4 32 | F 29 |
| S 30 | 18 27 | 10 48 | 3 33 | 21 18 | 1 24 | 21 34 | 0 39 | 8 15 | 5 31 | 5 55 | 1 8 | 1 30 | 2 27 | 5 39 | 0 48 | 19 11 | 0 8 | 19 46 | 3 38 | 9 7 | 8 41 | 28 10 | 0 26 | 4 33 | S 30 |
| S 31 | 18n12 | 16s 5 | 4s17 | 20n55 | 1n30 | 21n22 | 0n41 | 8s14 | 5s33 | 5n50 | 1n 8 | 1s30 | 2s27 | 5s40 | 0s48 | 19s11 | 0n 8 | 19n46 | 3s38 | 9s 7 | 8s42 | 28s10 | 0n26 | 4n33 | S 31 |

Julian Day Number = 2331927.5, Delta T = 28.16 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'08, Lahiri = 19°17'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## AUGUST 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 41 24 | 9♌19'04 | 13♏51 | 5♌21 | 28♋48 | 22♓12 | 18♍ 5 | 1°R50 | 17°R32 | 3°R52 | 4♋33 | 6°R34 | 7♓37 | 20♐56 | 20°R31 | M 1 |
| T 2 | 20 45 20 | 10°16'34 | 25°51 | 7°26 | 0♌ 2 | 22°18 | 18°17 | 1♈48 | 17♓30 | 3♒51 | 4°34 | 6♓33 | 7°34 | 21° 3 | 20♓29 | T 2 |
| W 3 | 20 49 17 | 11°14'04 | 7♐46 | 9°30 | 1°16 | 22°23 | 18°28 | 1°46 | 17°28 | 3°49 | 4°35 | 6°31 | 7°31 | 21°10 | 20°27 | W 3 |
| T 4 | 20 53 13 | 12°11'35 | 19°38 | 11°33 | 2°29 | 22°27 | 18°40 | 1°44 | 17°27 | 3°48 | 4°36 | 6°28 | 7°28 | 21°17 | 20°25 | T 4 |
| F 5 | 20 57 10 | 13° 9'07 | 1♑32 | 13°36 | 3°43 | 22°30 | 18°51 | 1°42 | 17°25 | 3°46 | 4°38 | 6°24 | 7°25 | 21°23 | 20°23 | F 5 |
| S 6 | 21 1 6 | 14° 6'41 | 13°31 | 15°38 | 4°57 | 22°33 | 19° 3 | 1°39 | 17°23 | 3°44 | 4°39 | 6°21 | 7°22 | 21°30 | 20°21 | S 6 |
| S 7 | 21 5 3 | 15° 4'15 | 25°38 | 17°38 | 6°11 | 22°34 | 19°14 | 1°37 | 17°21 | 3°43 | 4°40 | 6°17 | 7°18 | 21°37 | 20°19 | S 7 |
| M 8 | 21 8 59 | 16° 1'50 | 7♒53 | 19°38 | 7°25 | 22°35 | 19°26 | 1°35 | 17°19 | 3°41 | 4°41 | 6°15 | 7°15 | 21°43 | 20°17 | M 8 |
| T 9 | 21 12 56 | 16°59'26 | 20°19 | 21°36 | 8°39 | 22°R35 | 19°38 | 1°32 | 17°17 | 3°40 | 4°42 | 6°13 | 7°12 | 21°50 | 20°14 | T 9 |
| W10 | 21 16 53 | 17°57'04 | 2♓57 | 23°33 | 9°53 | 22°35 | 19°50 | 1°29 | 17°15 | 3°38 | 4°43 | 6°D12 | 7° 9 | 21°57 | 20°12 | W10 |
| T 11 | 21 20 49 | 18°54'43 | 15°47 | 25°29 | 11° 7 | 22°33 | 20° 2 | 1°27 | 17°13 | 3°36 | 4°45 | 6°12 | 7° 6 | 22° 4 | 20°10 | T 11 |
| F 12 | 21 24 46 | 19°52'23 | 28°51 | 27°24 | 12°21 | 22°30 | 20°14 | 1°24 | 17°11 | 3°35 | 4°46 | 6°13 | 7° 3 | 22°10 | 20° 7 | F 12 |
| S 13 | 21 28 42 | 20°50'05 | 12♈ 8 | 29°17 | 13°35 | 22°27 | 20°26 | 1°21 | 17° 9 | 3°33 | 4°47 | 6°14 | 6°59 | 22°17 | 20° 5 | S 13 |
| S 14 | 21 32 39 | 21°47'49 | 25°38 | 1♍ 8 | 14°49 | 22°23 | 20°38 | 1°18 | 17° 7 | 3°32 | 4°48 | 6°16 | 6°56 | 22°24 | 20° 3 | S 14 |
| M15 | 21 36 35 | 22°45'34 | 9♉23 | 2°58 | 16° 4 | 22°18 | 20°50 | 1°15 | 17° 5 | 3°30 | 4°49 | 6°16 | 6°53 | 22°30 | 20° 0 | M15 |
| T 16 | 21 40 32 | 23°43'21 | 23°22 | 4°47 | 17°18 | 22°12 | 21° 2 | 1°12 | 17° 3 | 3°29 | 4°50 | 6°R17 | 6°50 | 22°37 | 19°58 | T 16 |
| W17 | 21 44 28 | 24°41'10 | 7♊33 | 6°35 | 18°32 | 22° 6 | 21°14 | 1° 9 | 17° 1 | 3°27 | 4°51 | 6°16 | 6°47 | 22°44 | 19°55 | W17 |
| T 18 | 21 48 25 | 25°39'00 | 21°56 | 8°21 | 19°46 | 21°59 | 21°27 | 1° 5 | 16°58 | 3°26 | 4°52 | 6°16 | 6°43 | 22°51 | 19°53 | T 18 |
| F 19 | 21 52 22 | 26°36'53 | 6♋25 | 10° 5 | 21° 0 | 21°51 | 21°39 | 1° 2 | 16°56 | 3°24 | 4°53 | 6°15 | 6°40 | 22°57 | 19°50 | F 19 |
| S 20 | 21 56 18 | 27°34'47 | 20°58 | 11°49 | 22°15 | 21°42 | 21°51 | 0°58 | 16°54 | 3°23 | 4°54 | 6°14 | 6°37 | 23° 4 | 19°48 | S 20 |
| S 21 | 22 0 15 | 28°32'43 | 5♌27 | 13°31 | 23°29 | 21°32 | 22° 3 | 0°55 | 16°52 | 3°21 | 4°55 | 6°13 | 6°34 | 23°11 | 19°45 | S 21 |
| M22 | 22 4 11 | 29°30'40 | 19°49 | 15°11 | 24°43 | 21°22 | 22°16 | 0°51 | 16°50 | 3°20 | 4°56 | 6°12 | 6°31 | 23°17 | 19°43 | M22 |
| T 23 | 22 8 8 | 0♍28'39 | 3♍57 | 16°51 | 25°58 | 21°11 | 22°28 | 0°48 | 16°47 | 3°19 | 4°57 | 6°D12 | 6°28 | 23°24 | 19°40 | T 23 |
| W24 | 22 12 4 | 1°26'40 | 17°47 | 18°29 | 27°12 | 20°59 | 22°41 | 0°44 | 16°45 | 3°17 | 4°58 | 6°12 | 6°24 | 23°31 | 19°37 | W24 |
| T 25 | 22 16 1 | 2°24'42 | 1♎16 | 20° 6 | 28°26 | 20°47 | 22°53 | 0°40 | 16°43 | 3°16 | 4°59 | 6°12 | 6°21 | 23°38 | 19°35 | T 25 |
| F 26 | 22 19 57 | 3°22'45 | 14°24 | 21°41 | 29°41 | 20°34 | 23° 6 | 0°36 | 16°40 | 3°14 | 5° 0 | 6°13 | 6°18 | 23°44 | 19°32 | F 26 |
| S 27 | 22 23 54 | 4°20'50 | 27°12 | 23°15 | 0♍55 | 20°21 | 23°18 | 0°32 | 16°38 | 3°13 | 5° 0 | 6°13 | 6°15 | 23°51 | 19°29 | S 27 |
| S 28 | 22 27 51 | 5°18'57 | 9♏40 | 24°48 | 2°10 | 20° 7 | 23°31 | 0°28 | 16°36 | 3°12 | 5° 1 | 6°13 | 6°12 | 23°58 | 19°27 | S 28 |
| M29 | 22 31 47 | 6°17'05 | 21°54 | 26°20 | 3°24 | 19°52 | 23°44 | 0°24 | 16°33 | 3°10 | 5° 2 | 6°R13 | 6° 8 | 24° 5 | 19°24 | M29 |
| T 30 | 22 35 44 | 7°15'14 | 3♐56 | 27°51 | 4°39 | 19°38 | 23°56 | 0°20 | 16°31 | 3° 9 | 5° 3 | 6°D13 | 6° 5 | 24°11 | 19°21 | T 30 |
| W31 | 22 39 40 | 8♍13'25 | 15♐51 | 29♍20 | 5♍53 | 19♓22 | 24♍ 9 | 0♈16 | 16♓29 | 3♒ 8 | 5♋ 4 | 6♓13 | 6♓ 2 | 24♐18 | 19♓18 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17n57 | 20s37 | 4s49 | 20n29 | 1n34 | 21n 9 | 0n43 | 8s14 | 5s36 | 5n46 | 1n 8 | 1s31 | 2s27 | 5s40 | 0s48 | 19s11 | 0n 8 | 19n46 | 3s38 | 9s 7 | 8s44 | 28s10 | 0n25 | 4n33 |
| T 2 | 17 42 | 24 14 | 5 8 | 20 2 | 1 38 | 20 55 | 0 45 | 8 14 | 5 38 | 5 41 | 1 8 | 1 32 | 2 28 | 5 41 | 0 48 | 19 12 | 0 8 | 19 46 | 3 38 | 9 7 | 8 45 | 28 10 | 0 24 | 4 33 |
| W 3 | 17 26 | 26 48 | 5 13 | 19 32 | 1 41 | 20 41 | 0 47 | 8 14 | 5 41 | 5 37 | 1 8 | 1 33 | 2 28 | 5 42 | 0 48 | 19 12 | 0 8 | 19 46 | 3 38 | 9 8 | 8 46 | 28 11 | 0 24 | 4 33 |
| T 4 | 17 10 | 28 9 | 5 5 | 19 0 | 1 44 | 20 27 | 0 49 | 8 15 | 5 43 | 5 32 | 1 8 | 1 35 | 2 28 | 5 43 | 0 48 | 19 13 | 0 8 | 19 46 | 3 38 | 9 9 | 8 47 | 28 11 | 0 23 | 4 33 |
| F 5 | 16 54 | 28 13 | 4 44 | 18 27 | 1 45 | 20 11 | 0 51 | 8 16 | 5 45 | 5 27 | 1 8 | 1 36 | 2 28 | 5 43 | 0 48 | 19 13 | 0 8 | 19 46 | 3 38 | 9 11 | 8 48 | 28 11 | 0 22 | 4 33 |
| S 6 | 16 38 | 26 57 | 4 10 | 17 52 | 1 46 | 19 55 | 0 53 | 8 17 | 5 48 | 5 23 | 1 8 | 1 37 | 2 29 | 5 44 | 0 48 | 19 13 | 0 8 | 19 46 | 3 38 | 9 12 | 8 49 | 28 11 | 0 21 | 4 33 |
| S 7 | 16 21 | 24 25 | 3 25 | 17 15 | 1 46 | 19 39 | 0 55 | 8 18 | 5 50 | 5 18 | 1 8 | 1 38 | 2 29 | 5 45 | 0 48 | 19 14 | 0 8 | 19 46 | 3 38 | 9 13 | 8 51 | 28 12 | 0 21 | 4 33 |
| M 8 | 16 4 | 20 44 | 2 30 | 16 38 | 1 46 | 19 22 | 0 57 | 8 20 | 5 52 | 5 13 | 1 7 | 1 39 | 2 29 | 5 46 | 0 48 | 19 14 | 0 8 | 19 46 | 3 38 | 9 14 | 8 52 | 28 12 | 0 20 | 4 33 |
| T 9 | 15 46 | 16 6 | 1 26 | 15 58 | 1 44 | 19 4 | 0 59 | 8 21 | 5 54 | 5 9 | 1 7 | 1 40 | 2 29 | 5 46 | 0 48 | 19 15 | 0 8 | 19 46 | 3 38 | 9 15 | 8 53 | 28 12 | 0 19 | 4 34 |
| W10 | 15 29 | 10 43 | 0 18 | 15 18 | 1 43 | 18 46 | 1 0 | 8 24 | 5 56 | 5 4 | 1 7 | 1 42 | 2 30 | 5 47 | 0 48 | 19 15 | 0 8 | 19 46 | 3 38 | 9 15 | 8 54 | 28 12 | 0 18 | 4 34 |
| T 11 | 15 11 | 4 48 | 0n53 | 14 37 | 1 40 | 18 28 | 1 2 | 8 26 | 5 58 | 4 59 | 1 7 | 1 43 | 2 30 | 5 48 | 0 48 | 19 15 | 0 8 | 19 46 | 3 38 | 9 15 | 8 55 | 28 12 | 0 17 | 4 34 |
| F 12 | 14 53 | 1n24 | 2 2 | 13 56 | 1 38 | 18 9 | 1 4 | 8 28 | 5 59 | 4 54 | 1 7 | 1 44 | 2 30 | 5 49 | 0 48 | 19 16 | 0 8 | 19 46 | 3 38 | 9 15 | 8 57 | 28 13 | 0 17 | 4 34 |
| S 13 | 14 35 | 7 39 | 3 6 | 13 13 | 1 34 | 17 49 | 1 5 | 8 31 | 6 1 | 4 50 | 1 7 | 1 46 | 2 30 | 5 50 | 0 48 | 19 16 | 0 8 | 19 46 | 3 38 | 9 14 | 8 58 | 28 13 | 0 16 | 4 34 |
| S 14 | 14 16 | 13 39 | 4 0 | 12 30 | 1 31 | 17 29 | 1 7 | 8 34 | 6 2 | 4 45 | 1 7 | 1 47 | 2 31 | 5 50 | 0 48 | 19 16 | 0 8 | 19 46 | 3 38 | 9 14 | 8 59 | 28 13 | 0 15 | 4 34 |
| M15 | 13 57 | 19 6 | 4 42 | 11 46 | 1 26 | 17 8 | 1 8 | 8 38 | 6 4 | 4 40 | 1 7 | 1 48 | 2 31 | 5 51 | 0 48 | 19 17 | 0 8 | 19 46 | 3 38 | 9 14 | 9 0 | 28 13 | 0 14 | 4 34 |
| T 16 | 13 38 | 23 37 | 5 8 | 11 2 | 1 22 | 16 47 | 1 9 | 8 41 | 6 5 | 4 35 | 1 7 | 1 50 | 2 31 | 5 52 | 0 48 | 19 17 | 0 8 | 19 46 | 3 38 | 9 13 | 9 1 | 28 13 | 0 13 | 4 34 |
| W17 | 13 19 | 26 48 | 5 16 | 10 18 | 1 17 | 16 25 | 1 11 | 8 45 | 6 6 | 4 30 | 1 7 | 1 51 | 2 31 | 5 53 | 0 48 | 19 18 | 0 8 | 19 46 | 3 38 | 9 14 | 9 2 | 28 13 | 0 12 | 4 34 |
| T 18 | 13 0 | 28 18 | 5 4 | 9 34 | 1 11 | 16 3 | 1 12 | 8 48 | 6 7 | 4 25 | 1 7 | 1 53 | 2 31 | 5 54 | 0 48 | 19 18 | 0 8 | 19 45 | 3 38 | 9 14 | 9 4 | 28 14 | 0 11 | 4 34 |
| F 19 | 12 40 | 27 53 | 4 34 | 8 49 | 1 6 | 15 41 | 1 13 | 8 53 | 6 8 | 4 20 | 1 7 | 1 54 | 2 32 | 5 55 | 0 48 | 19 18 | 0 8 | 19 45 | 3 38 | 9 14 | 9 5 | 28 14 | 0 10 | 4 34 |
| S 20 | 12 20 | 25 33 | 3 45 | 8 4 | 1 0 | 15 18 | 1 14 | 8 57 | 6 9 | 4 16 | 1 7 | 1 56 | 2 32 | 5 56 | 0 49 | 19 19 | 0 8 | 19 45 | 3 38 | 9 15 | 9 6 | 28 14 | 0 9 | 4 34 |
| S 21 | 12 0 | 21 34 | 2 42 | 7 19 | 0 54 | 14 54 | 1 16 | 9 1 | 6 10 | 4 11 | 1 7 | 1 58 | 2 32 | 5 56 | 0 49 | 19 19 | 0 8 | 19 45 | 3 38 | 9 15 | 9 7 | 28 14 | 0 8 | 4 34 |
| M22 | 11 40 | 16 19 | 1 30 | 6 34 | 0 47 | 14 30 | 1 17 | 9 6 | 6 10 | 4 6 | 1 7 | 1 59 | 2 32 | 5 57 | 0 49 | 19 19 | 0 8 | 19 45 | 3 38 | 9 15 | 9 8 | 28 14 | 0 7 | 4 34 |
| T 23 | 11 19 | 10 16 | 0 12 | 5 49 | 0 40 | 14 6 | 1 18 | 9 10 | 6 10 | 4 1 | 1 7 | 2 1 | 2 32 | 5 58 | 0 49 | 19 20 | 0 8 | 19 45 | 3 38 | 9 15 | 9 9 | 28 14 | 0 6 | 4 34 |
| W24 | 10 59 | 3 52 | 1s 4 | 5 5 | 0 33 | 13 42 | 1 18 | 9 15 | 6 11 | 3 56 | 1 7 | 2 2 | 2 33 | 5 59 | 0 49 | 19 20 | 0 8 | 19 45 | 3 38 | 9 15 | 9 11 | 28 14 | 0 5 | 4 34 |
| T 25 | 10 38 | 2s34 | 2 15 | 4 20 | 0 26 | 13 17 | 1 19 | 9 20 | 6 11 | 3 51 | 1 7 | 2 4 | 2 33 | 6 0 | 0 49 | 19 20 | 0 8 | 19 45 | 3 38 | 9 15 | 9 12 | 28 14 | 0 4 | 4 34 |
| F 26 | 10 17 | 8 42 | 3 16 | 3 36 | 0 19 | 12 51 | 1 20 | 9 25 | 6 10 | 3 46 | 1 6 | 2 6 | 2 33 | 6 1 | 0 49 | 19 21 | 0 8 | 19 45 | 3 38 | 9 15 | 9 13 | 28 14 | 0 3 | 4 34 |
| S 27 | 9 56 | 14 19 | 4 6 | 2 52 | 0 12 | 12 26 | 1 21 | 9 30 | 6 10 | 3 41 | 1 6 | 2 7 | 2 33 | 6 2 | 0 49 | 19 21 | 0 8 | 19 45 | 3 38 | 9 15 | 9 14 | 28 14 | 0 2 | 4 34 |
| S 28 | 9 35 | 19 13 | 4 44 | 2 8 | 0 4 | 12 0 | 1 22 | 9 35 | 6 10 | 3 36 | 1 6 | 2 9 | 2 33 | 6 3 | 0 49 | 19 21 | 0 8 | 19 45 | 3 38 | 9 15 | 9 15 | 28 15 | 0 1 | 4 34 |
| M29 | 9 13 | 23 13 | 5 7 | 1 24 | 0s 4 | 11 33 | 1 22 | 9 40 | 6 9 | 3 31 | 1 6 | 2 11 | 2 33 | 6 4 | 0 49 | 19 22 | 0 8 | 19 45 | 3 38 | 9 15 | 9 17 | 28 15 | 0 0 | 4 34 |
| T 30 | 8 52 | 26 9 | 5 17 | 0 41 | 0 12 | 11 7 | 1 23 | 9 45 | 6 8 | 3 26 | 1 6 | 2 13 | 2 34 | 6 5 | 0 49 | 19 22 | 0 8 | 19 45 | 3 39 | 9 15 | 9 18 | 28 15 | 0s 1 | 4 34 |
| W31 | 8n30 | 27s55 | 5s12 | 0s 2 | 0s20 | 10n40 | 1n23 | 9s50 | 6s 7 | 3n21 | 1n 6 | 2s14 | 2s34 | 6s 6 | 0s49 | 19s22 | 0n 8 | 19n45 | 3s39 | 9s15 | 9s19 | 28s15 | 0s 2 | 4n34 |

Julian Day Number = 2331958.5, Delta T = 28.11 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'12, Lahiri = 19°17'13Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## SEPTEMBER 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 43 37 | 9♍11'38 | 27♐44 | 0♎48 | 7♍ 8 | 19°R 7 | 24♍22 | 0°R12 | 16°R26 | 3°R 7 | 5♋ 5 | 6♓13 | 5♓59 | 24♐25 | 19°R16 | T 1 |
| F 2 | 22 47 33 | 10° 9'52 | 9♑39 | 2°14 | 8°22 | 18♓51 | 24°35 | 0♈ 8 | 16♓24 | 3♒ 5 | 5° 5 | 6°14 | 5°56 | 24°31 | 19♓13 | F 2 |
| S 3 | 22 51 30 | 11° 8'08 | 21°41 | 3°40 | 9°37 | 18°35 | 24°47 | 0° 4 | 16°21 | 3° 4 | 5° 6 | 6°14 | 5°53 | 24°38 | 19°10 | S 3 |
| S 4 | 22 55 26 | 12° 6'25 | 3♒52 | 5° 4 | 10°51 | 18°18 | 25° 0 | 29♓59 | 16°19 | 3° 3 | 5° 7 | 6°15 | 5°49 | 24°45 | 19° 7 | S 4 |
| M 5 | 22 59 23 | 13° 4'44 | 16°17 | 6°27 | 12° 6 | 18° 2 | 25°13 | 29°55 | 16°17 | 3° 2 | 5° 7 | 6°15 | 5°46 | 24°52 | 19° 4 | M 5 |
| T 6 | 23 3 20 | 14° 3'04 | 28°57 | 7°48 | 13°20 | 17°45 | 25°26 | 29°51 | 16°14 | 3° 1 | 5° 8 | 6°16 | 5°43 | 24°58 | 19° 2 | T 6 |
| W 7 | 23 7 16 | 15° 1'26 | 11♓53 | 9° 8 | 14°35 | 17°29 | 25°39 | 29°46 | 16°12 | 3° 0 | 5° 9 | 6°R16 | 5°40 | 25° 5 | 18°59 | W 7 |
| T 8 | 23 11 13 | 15°59'50 | 25° 6 | 10°26 | 15°50 | 17°12 | 25°51 | 29°42 | 16° 9 | 2°59 | 5° 9 | 6°15 | 5°37 | 25°12 | 18°56 | T 8 |
| F 9 | 23 15 9 | 16°58'16 | 8♈34 | 11°43 | 17° 4 | 16°55 | 26° 4 | 29°37 | 16° 7 | 2°58 | 5°10 | 6°14 | 5°34 | 25°18 | 18°53 | F 9 |
| S 10 | 23 19 6 | 17°56'44 | 22°16 | 12°59 | 18°19 | 16°38 | 26°17 | 29°33 | 16° 5 | 2°56 | 5°10 | 6°13 | 5°30 | 25°25 | 18°50 | S 10 |
| S 11 | 23 23 2 | 18°55'15 | 6♉10 | 14°12 | 19°34 | 16°22 | 26°30 | 29°28 | 16° 2 | 2°55 | 5°11 | 6°11 | 5°27 | 25°32 | 18°48 | S 11 |
| M12 | 23 26 59 | 19°53'47 | 20°12 | 15°24 | 20°48 | 16° 5 | 26°43 | 29°24 | 16° 0 | 2°54 | 5°12 | 6°10 | 5°24 | 25°39 | 18°45 | M12 |
| T 13 | 23 30 55 | 20°52'21 | 4♊20 | 16°35 | 22° 3 | 15°49 | 26°56 | 29°19 | 15°57 | 2°53 | 5°12 | 6° 9 | 5°21 | 25°45 | 18°42 | T 13 |
| W14 | 23 34 52 | 21°50'58 | 18°32 | 17°43 | 23°18 | 15°33 | 27° 9 | 29°14 | 15°55 | 2°53 | 5°13 | 6°D 8 | 5°18 | 25°52 | 18°39 | W14 |
| T 15 | 23 38 49 | 22°49'37 | 2♋45 | 18°49 | 24°32 | 15°17 | 27°22 | 29°10 | 15°53 | 2°52 | 5°13 | 6° 8 | 5°14 | 25°59 | 18°36 | T 15 |
| F 16 | 23 42 45 | 23°48'19 | 16°57 | 19°53 | 25°47 | 15° 2 | 27°35 | 29° 5 | 15°50 | 2°51 | 5°14 | 6° 9 | 5°11 | 26° 5 | 18°33 | F 16 |
| S 17 | 23 46 42 | 24°47'03 | 1♌ 5 | 20°55 | 27° 2 | 14°47 | 27°48 | 29° 0 | 15°48 | 2°50 | 5°14 | 6°10 | 5° 8 | 26°12 | 18°31 | S 17 |
| S 18 | 23 50 38 | 25°45'48 | 15° 7 | 21°55 | 28°17 | 14°32 | 28° 1 | 28°56 | 15°46 | 2°49 | 5°14 | 6°12 | 5° 5 | 26°19 | 18°28 | S 18 |
| M19 | 23 54 35 | 26°44'36 | 29° 0 | 22°52 | 29°32 | 14°18 | 28°14 | 28°51 | 15°43 | 2°48 | 5°15 | 6°12 | 5° 2 | 26°26 | 18°25 | M19 |
| T 20 | 23 58 31 | 27°43'26 | 12♍43 | 23°46 | 0♎46 | 14° 4 | 28°27 | 28°46 | 15°41 | 2°47 | 5°15 | 6°R12 | 4°59 | 26°32 | 18°22 | T 20 |
| W21 | 0 2 28 | 28°42'19 | 26°13 | 24°36 | 2° 1 | 13°51 | 28°40 | 28°42 | 15°39 | 2°47 | 5°15 | 6°11 | 4°55 | 26°39 | 18°19 | W21 |
| T 22 | 0 6 24 | 29°41'13 | 9♎28 | 25°24 | 3°16 | 13°38 | 28°53 | 28°37 | 15°36 | 2°46 | 5°16 | 6° 9 | 4°52 | 26°46 | 18°17 | T 22 |
| F 23 | 0 10 21 | 0♎40'09 | 22°27 | 26° 8 | 4°31 | 13°26 | 29° 6 | 28°32 | 15°34 | 2°45 | 5°16 | 6° 6 | 4°49 | 26°52 | 18°14 | F 23 |
| S 24 | 0 14 17 | 1°39'07 | 5♏ 9 | 26°48 | 5°46 | 13°15 | 29°19 | 28°28 | 15°32 | 2°45 | 5°16 | 6° 2 | 4°46 | 26°59 | 18°11 | S 24 |
| S 25 | 0 18 14 | 2°38'07 | 17°35 | 27°24 | 7° 1 | 13° 4 | 29°32 | 28°23 | 15°29 | 2°44 | 5°17 | 5°57 | 4°43 | 27° 6 | 18° 8 | S 25 |
| M26 | 0 22 11 | 3°37'09 | 29°48 | 27°55 | 8°15 | 12°54 | 29°45 | 28°18 | 15°27 | 2°43 | 5°17 | 5°53 | 4°40 | 27°13 | 18° 6 | M26 |
| T 27 | 0 26 7 | 4°36'13 | 11♐49 | 28°21 | 9°30 | 12°45 | 29°58 | 28°14 | 15°25 | 2°43 | 5°17 | 5°50 | 4°36 | 27°19 | 18° 3 | T 27 |
| W28 | 0 30 4 | 5°35'19 | 23°44 | 28°41 | 10°45 | 12°36 | 0♎11 | 28° 9 | 15°23 | 2°42 | 5°17 | 5°48 | 4°33 | 27°26 | 18° 0 | W28 |
| T 29 | 0 34 0 | 6°34'26 | 5♑36 | 28°56 | 12° 0 | 12°28 | 0°24 | 28° 4 | 15°20 | 2°42 | 5°17 | 5°D47 | 4°30 | 27°33 | 17°58 | T 29 |
| F 30 | 0 37 57 | 7♎33'35 | 17♑30 | 29♎ 4 | 13♎15 | 12♓21 | 0♎37 | 28♓ 0 | 15♓18 | 2♒41 | 5♋17 | 5♓48 | 4♓27 | 27♐39 | 17♓55 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n 8 | 28s23 | 4s55 | 0s45 | 0s28 | 10n12 | 1n24 | 9s55 | 6s 6 | 3n15 | 1n 6 | 2s16 | 2s34 | 6s 7 | 0s49 | 19s22 | 0n 8 | 19n45 | 3s39 | 9s15 | 9s20 | 28s15 | 0s 3 | 4n34 |
| F 2 | 7 46 | 27 32 | 4 25 | 1 27 | 0 36 | 9 45 | 1 24 | 10 0 | 6 4 | 3 10 | 1 6 | 2 18 | 2 34 | 6 7 | 0 49 | 19 23 | 0 8 | 19 45 | 3 39 | 9 15 | 9 21 | 28 15 | 0 4 | 4 34 |
| S 3 | 7 24 | 25 24 | 3 43 | 2 8 | 0 44 | 9 17 | 1 24 | 10 5 | 6 3 | 3 5 | 1 6 | 2 20 | 2 34 | 6 8 | 0 49 | 19 23 | 0 8 | 19 45 | 3 39 | 9 14 | 9 22 | 28 15 | 0 5 | 4 34 |
| S 4 | 7 2 | 22 4 | 2 50 | 2 49 | 0 52 | 8 49 | 1 25 | 10 10 | 6 1 | 3 0 | 1 6 | 2 22 | 2 34 | 6 9 | 0 49 | 19 23 | 0 8 | 19 45 | 3 39 | 9 14 | 9 24 | 28 15 | 0 6 | 4 34 |
| M 5 | 6 40 | 17 43 | 1 48 | 3 29 | 1 1 | 8 20 | 1 25 | 10 15 | 5 59 | 2 55 | 1 6 | 2 24 | 2 34 | 6 10 | 0 49 | 19 24 | 0 8 | 19 45 | 3 39 | 9 14 | 9 25 | 28 15 | 0 8 | 4 34 |
| T 6 | 6 17 | 12 30 | 0 40 | 4 9 | 1 9 | 7 52 | 1 25 | 10 19 | 5 57 | 2 50 | 1 6 | 2 25 | 2 34 | 6 11 | 0 49 | 19 24 | 0 8 | 19 45 | 3 39 | 9 14 | 9 26 | 28 15 | 0 9 | 4 34 |
| W 7 | 5 55 | 6 38 | 0n31 | 4 48 | 1 17 | 7 23 | 1 25 | 10 24 | 5 55 | 2 45 | 1 6 | 2 27 | 2 35 | 6 12 | 0 49 | 19 24 | 0 8 | 19 45 | 3 39 | 9 14 | 9 27 | 28 15 | 0 10 | 4 34 |
| T 8 | 5 32 | 0 23 | 1 42 | 5 27 | 1 25 | 6 54 | 1 25 | 10 28 | 5 52 | 2 40 | 1 6 | 2 29 | 2 35 | 6 13 | 0 49 | 19 24 | 0 8 | 19 44 | 3 39 | 9 14 | 9 28 | 28 15 | 0 11 | 4 34 |
| F 9 | 5 9 | 6n 0 | 2 49 | 6 5 | 1 34 | 6 25 | 1 25 | 10 32 | 5 50 | 2 35 | 1 6 | 2 31 | 2 35 | 6 14 | 0 49 | 19 25 | 0 8 | 19 44 | 3 39 | 9 14 | 9 29 | 28 15 | 0 12 | 4 34 |
| S 10 | 4 46 | 12 12 | 3 48 | 6 42 | 1 42 | 5 56 | 1 25 | 10 36 | 5 47 | 2 29 | 1 6 | 2 33 | 2 35 | 6 15 | 0 49 | 19 25 | 0 8 | 19 44 | 3 39 | 9 15 | 9 31 | 28 14 | 0 13 | 4 34 |
| S 11 | 4 24 | 17 54 | 4 34 | 7 18 | 1 50 | 5 26 | 1 24 | 10 40 | 5 44 | 2 24 | 1 6 | 2 35 | 2 35 | 6 16 | 0 49 | 19 25 | 0 7 | 19 44 | 3 39 | 9 16 | 9 32 | 28 14 | 0 15 | 4 34 |
| M12 | 4 1 | 22 42 | 5 4 | 7 53 | 1 58 | 4 56 | 1 24 | 10 44 | 5 41 | 2 19 | 1 6 | 2 37 | 2 35 | 6 17 | 0 49 | 19 25 | 0 7 | 19 44 | 3 39 | 9 16 | 9 33 | 28 14 | 0 16 | 4 34 |
| T 13 | 3 37 | 26 13 | 5 15 | 8 28 | 2 6 | 4 26 | 1 24 | 10 47 | 5 38 | 2 14 | 1 6 | 2 39 | 2 35 | 6 18 | 0 49 | 19 26 | 0 7 | 19 44 | 3 39 | 9 16 | 9 34 | 28 14 | 0 17 | 4 34 |
| W14 | 3 14 | 28 6 | 5 8 | 9 1 | 2 14 | 3 56 | 1 23 | 10 50 | 5 34 | 2 9 | 1 6 | 2 41 | 2 35 | 6 19 | 0 49 | 19 26 | 0 7 | 19 44 | 3 39 | 9 17 | 9 35 | 28 14 | 0 18 | 4 34 |
| T 15 | 2 51 | 28 10 | 4 42 | 9 34 | 2 21 | 3 26 | 1 23 | 10 53 | 5 31 | 2 4 | 1 6 | 2 42 | 2 35 | 6 20 | 0 49 | 19 26 | 0 7 | 19 44 | 3 39 | 9 17 | 9 36 | 28 14 | 0 19 | 4 34 |
| F 16 | 2 28 | 26 22 | 3 59 | 10 5 | 2 29 | 2 56 | 1 22 | 10 56 | 5 27 | 1 59 | 1 6 | 2 44 | 2 35 | 6 20 | 0 49 | 19 26 | 0 7 | 19 44 | 3 39 | 9 16 | 9 38 | 28 14 | 0 20 | 4 33 |
| S 17 | 2 5 | 22 55 | 3 2 | 10 36 | 2 36 | 2 26 | 1 22 | 10 58 | 5 23 | 1 53 | 1 6 | 2 46 | 2 35 | 6 21 | 0 49 | 19 27 | 0 7 | 19 44 | 3 39 | 9 16 | 9 39 | 28 14 | 0 22 | 4 33 |
| S 18 | 1 41 | 18 9 | 1 54 | 11 4 | 2 43 | 1 55 | 1 21 | 11 0 | 5 19 | 1 48 | 1 6 | 2 48 | 2 35 | 6 22 | 0 49 | 19 27 | 0 7 | 19 44 | 3 39 | 9 15 | 9 40 | 28 14 | 0 23 | 4 33 |
| M19 | 1 18 | 12 28 | 0 40 | 11 32 | 2 50 | 1 25 | 1 20 | 11 2 | 5 15 | 1 43 | 1 6 | 2 50 | 2 35 | 6 23 | 0 49 | 19 27 | 0 7 | 19 44 | 3 39 | 9 15 | 9 41 | 28 14 | 0 24 | 4 33 |
| T 20 | 0 54 | 6 15 | 0s36 | 11 58 | 2 57 | 0 54 | 1 19 | 11 4 | 5 11 | 1 38 | 1 6 | 2 52 | 2 36 | 6 24 | 0 49 | 19 27 | 0 7 | 19 44 | 3 39 | 9 15 | 9 42 | 28 13 | 0 25 | 4 33 |
| W21 | 0 31 | 0s 9 | 1 48 | 12 23 | 3 3 | 0 24 | 1 19 | 11 5 | 5 7 | 1 33 | 1 6 | 2 54 | 2 36 | 6 25 | 0 49 | 19 27 | 0 7 | 19 44 | 3 39 | 9 15 | 9 43 | 28 13 | 0 26 | 4 33 |
| T 22 | 0 7 | 6 24 | 2 53 | 12 46 | 3 8 | 0s 7 | 1 18 | 11 6 | 5 3 | 1 28 | 1 6 | 2 56 | 2 36 | 6 26 | 0 49 | 19 28 | 0 7 | 19 44 | 3 39 | 9 16 | 9 45 | 28 13 | 0 28 | 4 33 |
| F 23 | 0s16 | 12 15 | 3 47 | 13 7 | 3 14 | 0 37 | 1 17 | 11 6 | 4 58 | 1 22 | 1 6 | 2 58 | 2 36 | 6 27 | 0 49 | 19 28 | 0 7 | 19 44 | 3 39 | 9 18 | 9 46 | 28 13 | 0 29 | 4 33 |
| S 24 | 0 40 | 17 29 | 4 29 | 13 26 | 3 19 | 1 8 | 1 16 | 11 7 | 4 54 | 1 17 | 1 6 | 3 0 | 2 36 | 6 28 | 0 49 | 19 28 | 0 7 | 19 44 | 3 39 | 9 19 | 9 47 | 28 13 | 0 30 | 4 33 |
| S 25 | 1 3 | 21 51 | 4 57 | 13 43 | 3 23 | 1 39 | 1 15 | 11 7 | 4 49 | 1 12 | 1 6 | 3 1 | 2 36 | 6 29 | 0 48 | 19 28 | 0 7 | 19 44 | 3 39 | 9 21 | 9 48 | 28 13 | 0 31 | 4 32 |
| M26 | 1 26 | 25 12 | 5 11 | 13 58 | 3 27 | 2 9 | 1 13 | 11 6 | 4 45 | 1 7 | 1 6 | 3 3 | 2 36 | 6 29 | 0 48 | 19 28 | 0 7 | 19 44 | 3 39 | 9 22 | 9 49 | 28 12 | 0 32 | 4 32 |
| T 27 | 1 50 | 27 23 | 5 11 | 14 10 | 3 30 | 2 40 | 1 12 | 11 6 | 4 40 | 1 2 | 1 6 | 3 5 | 2 36 | 6 30 | 0 48 | 19 28 | 0 7 | 19 44 | 3 39 | 9 23 | 9 50 | 28 12 | 0 33 | 4 32 |
| W28 | 2 13 | 28 17 | 4 58 | 14 20 | 3 32 | 3 11 | 1 11 | 11 5 | 4 35 | 0 57 | 1 6 | 3 7 | 2 36 | 6 31 | 0 48 | 19 28 | 0 7 | 19 44 | 3 39 | 9 24 | 9 52 | 28 12 | 0 35 | 4 32 |
| T 29 | 2 37 | 27 53 | 4 32 | 14 26 | 3 33 | 3 41 | 1 10 | 11 3 | 4 30 | 0 51 | 1 6 | 3 9 | 2 36 | 6 32 | 0 48 | 19 29 | 0 7 | 19 44 | 3 39 | 9 24 | 9 53 | 28 12 | 0 36 | 4 32 |
| F 30 | 3s 0 | 26s12 | 3s54 | 14s29 | 3s33 | 4s12 | 1n 8 | 11s 1 | 4s26 | 0n46 | 1n 6 | 3s11 | 2s36 | 6s33 | 0s48 | 19s29 | 0n 7 | 19n43 | 3s39 | 9s24 | 9s54 | 28s12 | 0s37 | 4n32 |

Julian Day Number = 2331989.5, Delta T = 28.05 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'16, Lahiri = 19°17'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## OCTOBER 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 41 53 | 8♎32'46 | 29♉31 | 29°R 6 | 14♎30 | 12°R15 | 0♎50 | 27°R55 | 15°R16 | 2°R41 | 5♋17 | 5♓49 | 4♓24 | 27♐46 | 17°R53 | S 1 |
| S 2 | 0 45 50 | 9°31'59 | 11♒44 | 29♎ 0 | 15°45 | 12♓ 9 | 1° 2 | 27♓51 | 15♓14 | 2♒41 | 5°18 | 5°51 | 4°20 | 27°53 | 17♓50 | S 2 |
| M 3 | 0 49 46 | 10°31'14 | 24°12 | 28°47 | 17° 0 | 12° 5 | 1°15 | 27°46 | 15°12 | 2°40 | 5°18 | 5°52 | 4°17 | 27°59 | 17°47 | M 3 |
| T 4 | 0 53 43 | 11°30'30 | 7♓ 1 | 28°25 | 18°15 | 12° 1 | 1°28 | 27°42 | 15°10 | 2°40 | 5°18 | 5°R53 | 4°14 | 28° 6 | 17°45 | T 4 |
| W 5 | 0 57 40 | 12°29'48 | 20°11 | 27°56 | 19°30 | 11°57 | 1°41 | 27°37 | 15° 8 | 2°40 | 5°R18 | 5°52 | 4°11 | 28°13 | 17°42 | W 5 |
| T 6 | 1 1 36 | 13°29'08 | 3♈43 | 27°18 | 20°44 | 11°55 | 1°54 | 27°33 | 15° 6 | 2°39 | 5°18 | 5°49 | 4° 8 | 28°20 | 17°40 | T 6 |
| F 7 | 1 5 33 | 14°28'30 | 17°36 | 26°32 | 21°59 | 11°53 | 2° 7 | 27°28 | 15° 4 | 2°39 | 5°18 | 5°45 | 4° 5 | 28°26 | 17°37 | F 7 |
| S 8 | 1 9 29 | 15°27'55 | 1♉47 | 25°39 | 23°14 | 11°52 | 2°20 | 27°24 | 15° 2 | 2°39 | 5°18 | 5°39 | 4° 1 | 28°33 | 17°35 | S 8 |
| S 9 | 1 13 26 | 16°27'21 | 16° 9 | 24°39 | 24°29 | 11°D52 | 2°33 | 27°20 | 15° 0 | 2°39 | 5°17 | 5°32 | 3°58 | 28°40 | 17°33 | S 9 |
| M10 | 1 17 22 | 17°26'50 | 0♊38 | 23°32 | 25°44 | 11°53 | 2°45 | 27°15 | 14°58 | 2°38 | 5°17 | 5°26 | 3°55 | 28°46 | 17°30 | M10 |
| T 11 | 1 21 19 | 18°26'21 | 15° 7 | 22°22 | 26°59 | 11°55 | 2°58 | 27°11 | 14°56 | 2°38 | 5°17 | 5°21 | 3°52 | 28°53 | 17°28 | T 11 |
| W12 | 1 25 15 | 19°25'54 | 29°31 | 21° 9 | 28°14 | 11°57 | 3°11 | 27° 7 | 14°54 | 2°38 | 5°17 | 5°17 | 3°49 | 29° 0 | 17°26 | W12 |
| T 13 | 1 29 12 | 20°25'30 | 13♋47 | 19°55 | 29°29 | 12° 0 | 3°24 | 27° 3 | 14°52 | 2°38 | 5°17 | 5°16 | 3°46 | 29° 7 | 17°23 | T 13 |
| F 14 | 1 33 9 | 21°25'08 | 27°51 | 18°42 | 0♏44 | 12° 4 | 3°36 | 26°59 | 14°50 | 2°D38 | 5°17 | 5°D15 | 3°42 | 29°13 | 17°21 | F 14 |
| S 15 | 1 37 5 | 22°24'48 | 11♌43 | 17°33 | 1°59 | 12° 9 | 3°49 | 26°55 | 14°49 | 2°38 | 5°16 | 5°16 | 3°39 | 29°20 | 17°19 | S 15 |
| S 16 | 1 41 2 | 23°24'31 | 25°24 | 16°30 | 3°14 | 12°14 | 4° 2 | 26°51 | 14°47 | 2°38 | 5°16 | 5°18 | 3°36 | 29°27 | 17°17 | S 16 |
| M17 | 1 44 58 | 24°24'16 | 8♍53 | 15°34 | 4°29 | 12°20 | 4°14 | 26°47 | 14°45 | 2°38 | 5°16 | 5°R18 | 3°33 | 29°33 | 17°15 | M17 |
| T 18 | 1 48 55 | 25°24'03 | 22°10 | 14°48 | 5°44 | 12°27 | 4°27 | 26°43 | 14°44 | 2°38 | 5°16 | 5°17 | 3°30 | 29°40 | 17°13 | T 18 |
| W19 | 1 52 51 | 26°23'52 | 5♎16 | 14°12 | 6°59 | 12°35 | 4°39 | 26°39 | 14°42 | 2°39 | 5°15 | 5°13 | 3°26 | 29°47 | 17°11 | W19 |
| T 20 | 1 56 48 | 27°23'43 | 18°11 | 13°46 | 8°14 | 12°43 | 4°52 | 26°36 | 14°40 | 2°39 | 5°15 | 5° 7 | 3°23 | 29°54 | 17° 9 | T 20 |
| F 21 | 2 0 44 | 28°23'36 | 0♏54 | 13°32 | 9°29 | 12°52 | 5° 4 | 26°32 | 14°39 | 2°39 | 5°15 | 4°58 | 3°20 | 0♑ 0 | 17° 7 | F 21 |
| S 22 | 2 4 41 | 29°23'31 | 13°25 | 13°D30 | 10°44 | 13° 2 | 5°17 | 26°29 | 14°37 | 2°39 | 5°14 | 4°48 | 3°17 | 0° 7 | 17° 5 | S 22 |
| S 23 | 2 8 38 | 0♏23'29 | 25°44 | 13°39 | 11°59 | 13°12 | 5°29 | 26°25 | 14°36 | 2°40 | 5°14 | 4°37 | 3°14 | 0°14 | 17° 3 | S 23 |
| M24 | 2 12 34 | 1°23'28 | 7♐52 | 13°58 | 13°14 | 13°23 | 5°41 | 26°22 | 14°34 | 2°40 | 5°13 | 4°27 | 3°11 | 0°20 | 17° 1 | M24 |
| T 25 | 2 16 31 | 2°23'28 | 19°51 | 14°27 | 14°29 | 13°35 | 5°54 | 26°18 | 14°33 | 2°40 | 5°13 | 4°17 | 3° 7 | 0°27 | 16°59 | T 25 |
| W26 | 2 20 27 | 3°23'31 | 1♑43 | 15° 6 | 15°44 | 13°48 | 6° 6 | 26°15 | 14°32 | 2°41 | 5°13 | 4°10 | 3° 4 | 0°34 | 16°58 | W26 |
| T 27 | 2 24 24 | 4°23'35 | 13°33 | 15°52 | 16°59 | 14° 1 | 6°18 | 26°12 | 14°30 | 2°41 | 5°12 | 4° 5 | 3° 1 | 0°41 | 16°56 | T 27 |
| F 28 | 2 28 20 | 5°23'41 | 25°24 | 16°46 | 18°14 | 14°15 | 6°30 | 26° 9 | 14°29 | 2°42 | 5°12 | 4° 3 | 2°58 | 0°47 | 16°54 | F 28 |
| S 29 | 2 32 17 | 6°23'48 | 7♒22 | 17°46 | 19°29 | 14°29 | 6°42 | 26° 6 | 14°28 | 2°42 | 5°11 | 4°D 2 | 2°55 | 0°54 | 16°53 | S 29 |
| S 30 | 2 36 13 | 7°23'57 | 19°31 | 18°52 | 20°44 | 14°44 | 6°55 | 26° 3 | 14°27 | 2°43 | 5°10 | 4° 3 | 2°51 | 1° 1 | 16°51 | S 30 |
| M31 | 2 40 10 | 8♏24'07 | 1♓58 | 20♎ 3 | 21♏59 | 15♓ 0 | 7♎ 7 | 26♓ 0 | 14♓26 | 2♒43 | 5♋10 | 4°R 3 | 2♓48 | 1♑ 7 | 16♓50 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s24 | 23s19 | 3s 5 | 14s29 | 3s33 | 4s42 | 1n 7 | 11s 0 | 4s21 | 0n41 | 1n 6 | 3s12 | 2s36 | 6s34 | 0s48 | 19s29 | 0n 7 | 19n43 | 3s39 | 9s24 | 9s55 | 28s11 | 0s38 | 4n32 |
| S 2 | 3 47 | 19 21 | 2 8 | 14 25 | 3 31 | 5 12 | 1 5 | 10 57 | 4 16 | 0 36 | 1 7 | 3 14 | 2 36 | 6 34 | 0 48 | 19 29 | 0 7 | 19 43 | 3 39 | 9 23 | 9 56 | 28 11 | 0 39 | 4 31 |
| M 3 | 4 10 | 14 28 | 1 3 | 14 17 | 3 27 | 5 42 | 1 4 | 10 55 | 4 11 | 0 31 | 1 7 | 3 16 | 2 36 | 6 35 | 0 48 | 19 29 | 0 7 | 19 43 | 3 39 | 9 23 | 9 57 | 28 11 | 0 40 | 4 31 |
| T 4 | 4 34 | 8 51 | 0n 6 | 14 5 | 3 22 | 6 12 | 1 2 | 10 52 | 4 6 | 0 26 | 1 7 | 3 18 | 2 36 | 6 36 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 22 | 9 59 | 28 11 | 0 42 | 4 31 |
| W 5 | 4 57 | 2 43 | 1 17 | 13 48 | 3 16 | 6 42 | 1 1 | 10 48 | 4 1 | 0 21 | 1 7 | 3 20 | 2 35 | 6 37 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 23 | 10 0 | 28 10 | 0 43 | 4 31 |
| T 6 | 5 20 | 3n42 | 2 25 | 13 27 | 3 8 | 7 12 | 0 59 | 10 45 | 3 57 | 0 16 | 1 7 | 3 21 | 2 35 | 6 38 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 24 | 10 1 | 28 10 | 0 44 | 4 31 |
| F 7 | 5 43 | 10 6 | 3 27 | 13 1 | 2 57 | 7 42 | 0 57 | 10 41 | 3 52 | 0 11 | 1 7 | 3 23 | 2 35 | 6 38 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 25 | 10 2 | 28 10 | 0 45 | 4 30 |
| S 8 | 6 6 | 16 8 | 4 17 | 12 30 | 2 46 | 8 11 | 0 55 | 10 37 | 3 47 | 0 6 | 1 7 | 3 25 | 2 35 | 6 39 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 27 | 10 3 | 28 10 | 0 46 | 4 30 |
| S 9 | 6 29 | 21 21 | 4 51 | 11 55 | 2 32 | 8 41 | 0 54 | 10 32 | 3 42 | 0 1 | 1 7 | 3 26 | 2 35 | 6 40 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 30 | 10 4 | 28 9 | 0 47 | 4 30 |
| M10 | 6 52 | 25 20 | 5 8 | 11 16 | 2 16 | 9 10 | 0 52 | 10 28 | 3 37 | 0s 4 | 1 7 | 3 28 | 2 35 | 6 40 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 32 | 10 5 | 28 9 | 0 48 | 4 30 |
| T 11 | 7 14 | 27 42 | 5 4 | 10 34 | 1 59 | 9 39 | 0 50 | 10 23 | 3 33 | 0 10 | 1 7 | 3 30 | 2 35 | 6 41 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 34 | 10 7 | 28 9 | 0 49 | 4 30 |
| W12 | 7 37 | 28 11 | 4 42 | 9 49 | 1 40 | 10 7 | 0 48 | 10 17 | 3 28 | 0 15 | 1 7 | 3 31 | 2 35 | 6 42 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 35 | 10 8 | 28 8 | 0 50 | 4 29 |
| T 13 | 8 0 | 26 47 | 4 2 | 9 3 | 1 21 | 10 36 | 0 46 | 10 12 | 3 23 | 0 20 | 1 7 | 3 33 | 2 35 | 6 43 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 36 | 10 9 | 28 8 | 0 51 | 4 29 |
| F 14 | 8 22 | 23 42 | 3 8 | 8 16 | 1 0 | 11 4 | 0 44 | 10 6 | 3 18 | 0 25 | 1 7 | 3 34 | 2 35 | 6 43 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 36 | 10 10 | 28 8 | 0 53 | 4 29 |
| S 15 | 8 44 | 19 17 | 2 4 | 7 31 | 0 40 | 11 32 | 0 42 | 10 0 | 3 14 | 0 30 | 1 7 | 3 36 | 2 35 | 6 44 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 36 | 10 11 | 28 7 | 0 54 | 4 29 |
| S 16 | 9 7 | 13 55 | 0 53 | 6 48 | 0 19 | 12 0 | 0 40 | 9 54 | 3 9 | 0 34 | 1 7 | 3 37 | 2 35 | 6 45 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 35 | 10 12 | 28 7 | 0 55 | 4 29 |
| M17 | 9 29 | 7 58 | 0s19 | 6 8 | 0n 1 | 12 27 | 0 38 | 9 47 | 3 5 | 0 39 | 1 7 | 3 39 | 2 35 | 6 45 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 35 | 10 14 | 28 7 | 0 56 | 4 28 |
| T 18 | 9 51 | 1 45 | 1 29 | 5 32 | 0 20 | 12 54 | 0 35 | 9 40 | 3 0 | 0 44 | 1 7 | 3 40 | 2 34 | 6 46 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 36 | 10 15 | 28 6 | 0 57 | 4 28 |
| W19 | 10 12 | 4s27 | 2 34 | 5 1 | 0 38 | 13 21 | 0 33 | 9 33 | 2 56 | 0 49 | 1 7 | 3 41 | 2 34 | 6 46 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 37 | 10 16 | 28 6 | 0 58 | 4 28 |
| T 20 | 10 34 | 10 22 | 3 29 | 4 36 | 0 55 | 13 47 | 0 31 | 9 26 | 2 51 | 0 54 | 1 8 | 3 43 | 2 34 | 6 47 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 39 | 10 17 | 28 5 | 0 59 | 4 28 |
| F 21 | 10 55 | 15 45 | 4 13 | 4 17 | 1 10 | 14 13 | 0 29 | 9 19 | 2 47 | 0 59 | 1 8 | 3 44 | 2 34 | 6 48 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 42 | 10 18 | 28 5 | 1 0 | 4 27 |
| S 22 | 11 17 | 20 24 | 4 44 | 4 4 | 1 23 | 14 39 | 0 26 | 9 11 | 2 43 | 1 4 | 1 8 | 3 45 | 2 34 | 6 48 | 0 48 | 19 30 | 0 7 | 19 43 | 3 40 | 9 46 | 10 19 | 28 5 | 1 1 | 4 27 |
| S 23 | 11 38 | 24 5 | 5 1 | 3 56 | 1 35 | 15 5 | 0 24 | 9 3 | 2 38 | 1 9 | 1 8 | 3 47 | 2 34 | 6 49 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 50 | 10 20 | 28 4 | 1 2 | 4 27 |
| M24 | 11 59 | 26 39 | 5 4 | 3 55 | 1 45 | 15 30 | 0 22 | 8 55 | 2 34 | 1 14 | 1 8 | 3 48 | 2 34 | 6 49 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 54 | 10 22 | 28 4 | 1 2 | 4 27 |
| T 25 | 12 20 | 27 58 | 4 53 | 3 58 | 1 53 | 15 54 | 0 19 | 8 46 | 2 30 | 1 18 | 1 8 | 3 49 | 2 34 | 6 50 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 9 57 | 10 23 | 28 3 | 1 3 | 4 26 |
| W26 | 12 40 | 27 59 | 4 30 | 4 7 | 1 59 | 16 19 | 0 17 | 8 38 | 2 26 | 1 23 | 1 8 | 3 50 | 2 33 | 6 50 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 10 0 | 10 24 | 28 3 | 1 4 | 4 26 |
| T 27 | 13 1 | 26 42 | 3 56 | 4 20 | 2 5 | 16 42 | 0 15 | 8 29 | 2 22 | 1 28 | 1 8 | 3 51 | 2 33 | 6 51 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 10 2 | 10 25 | 28 3 | 1 5 | 4 26 |
| F 28 | 13 21 | 24 13 | 3 11 | 4 38 | 2 8 | 17 6 | 0 12 | 8 20 | 2 18 | 1 33 | 1 8 | 3 53 | 2 33 | 6 51 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 10 3 | 10 26 | 28 2 | 1 6 | 4 26 |
| S 29 | 13 41 | 20 41 | 2 17 | 4 58 | 2 11 | 17 29 | 0 10 | 8 11 | 2 14 | 1 37 | 1 8 | 3 54 | 2 33 | 6 52 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 10 3 | 10 27 | 28 2 | 1 7 | 4 25 |
| S 30 | 14 0 | 16 12 | 1 17 | 5 22 | 2 12 | 17 51 | 0 7 | 8 1 | 2 10 | 1 42 | 1 8 | 3 55 | 2 33 | 6 52 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 10 3 | 10 28 | 28 1 | 1 8 | 4 25 |
| M31 | 14s20 | 10s58 | 0s11 | 5s49 | 2n12 | 18s13 | 0n 5 | 7s52 | 2s 6 | 1s47 | 1n 9 | 3s56 | 2s33 | 6s52 | 0s48 | 19s29 | 0n 7 | 19n43 | 3s40 | 10s 2 | 10s30 | 28s 1 | 1s 9 | 4n25 |

Julian Day Number = 2332019.5, Delta T = 28.00 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'21, Lahiri = 19°17'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## NOVEMBER 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 44 7 | 9♏24'19 | 14♓47 | 21♎19 | 23♏14 | 15♓16 | 7♎18 | 25°R57 | 14°R25 | 2♒44 | 5°R 9 | 4°R 3 | 2♓45 | 1♑14 | 16°R48 | T 1 |
| W 2 | 2 48 3 | 10°24'33 | 28° 1 | 22°38 | 24°29 | 15°33 | 7°30 | 25♓55 | 14♓24 | 2°44 | 5♋ 9 | 4♓ 0 | 2°42 | 1°21 | 16♓47 | W 2 |
| T 3 | 2 52 0 | 11°24'48 | 11♈42 | 24° 0 | 25°44 | 15°50 | 7°42 | 25°52 | 14°23 | 2°45 | 5° 8 | 3°55 | 2°39 | 1°27 | 16°45 | T 3 |
| F 4 | 2 55 56 | 12°25'04 | 25°51 | 25°24 | 26°59 | 16° 8 | 7°54 | 25°50 | 14°22 | 2°46 | 5° 7 | 3°48 | 2°36 | 1°34 | 16°44 | F 4 |
| S 5 | 2 59 53 | 13°25'22 | 10♉23 | 26°51 | 28°14 | 16°26 | 8° 6 | 25°47 | 14°21 | 2°46 | 5° 7 | 3°38 | 2°32 | 1°41 | 16°43 | S 5 |
| S 6 | 3 3 49 | 14°25'43 | 25°12 | 28°20 | 29°29 | 16°45 | 8°17 | 25°45 | 14°20 | 2°47 | 5° 6 | 3°27 | 2°29 | 1°48 | 16°42 | S 6 |
| M 7 | 3 7 46 | 15°26'04 | 10♊ 8 | 29°50 | 0♐44 | 17° 4 | 8°29 | 25°43 | 14°19 | 2°48 | 5° 5 | 3°16 | 2°26 | 1°54 | 16°41 | M 7 |
| T 8 | 3 11 42 | 16°26'28 | 25° 4 | 1♏21 | 1°59 | 17°24 | 8°41 | 25°41 | 14°18 | 2°49 | 5° 5 | 3° 7 | 2°23 | 2° 1 | 16°40 | T 8 |
| W 9 | 3 15 39 | 17°26'54 | 9♋50 | 2°53 | 3°14 | 17°45 | 8°52 | 25°39 | 14°18 | 2°50 | 5° 4 | 3° 0 | 2°20 | 2° 8 | 16°39 | W 9 |
| T 10 | 3 19 36 | 18°27'21 | 24°20 | 4°26 | 4°29 | 18° 5 | 9° 4 | 25°37 | 14°17 | 2°51 | 5° 3 | 2°55 | 2°17 | 2°14 | 16°38 | T 10 |
| F 11 | 3 23 32 | 19°27'51 | 8♌30 | 5°59 | 5°44 | 18°27 | 9°15 | 25°35 | 14°16 | 2°51 | 5° 2 | 2°53 | 2°13 | 2°21 | 16°37 | F 11 |
| S 12 | 3 27 29 | 20°28'22 | 22°21 | 7°33 | 6°59 | 18°48 | 9°26 | 25°33 | 14°16 | 2°52 | 5° 1 | 2°D53 | 2°10 | 2°28 | 16°36 | S 12 |
| S 13 | 3 31 25 | 21°28'55 | 5♍52 | 9° 8 | 8°14 | 19°10 | 9°37 | 25°32 | 14°15 | 2°53 | 5° 1 | 2°R53 | 2° 7 | 2°35 | 16°35 | S 13 |
| M14 | 3 35 22 | 22°29'29 | 19° 5 | 10°42 | 9°29 | 19°33 | 9°49 | 25°30 | 14°15 | 2°54 | 5° 0 | 2°52 | 2° 4 | 2°41 | 16°34 | M14 |
| T 15 | 3 39 18 | 23°30'06 | 2♎ 4 | 12°17 | 10°43 | 19°56 | 10° 0 | 25°29 | 14°14 | 2°55 | 4°59 | 2°49 | 2° 1 | 2°48 | 16°33 | T 15 |
| W16 | 3 43 15 | 24°30'44 | 14°51 | 13°52 | 11°58 | 20°19 | 10°11 | 25°27 | 14°14 | 2°57 | 4°58 | 2°43 | 1°57 | 2°55 | 16°33 | W16 |
| T 17 | 3 47 11 | 25°31'24 | 27°26 | 15°27 | 13°13 | 20°43 | 10°22 | 25°26 | 14°14 | 2°58 | 4°57 | 2°35 | 1°54 | 3° 1 | 16°32 | T 17 |
| F 18 | 3 51 8 | 26°32'05 | 9♏52 | 17° 2 | 14°28 | 21° 7 | 10°32 | 25°25 | 14°13 | 2°59 | 4°56 | 2°23 | 1°51 | 3° 8 | 16°32 | F 18 |
| S 19 | 3 55 5 | 27°32'48 | 22° 9 | 18°37 | 15°43 | 21°32 | 10°43 | 25°24 | 14°13 | 3° 0 | 4°55 | 2° 9 | 1°48 | 3°15 | 16°31 | S 19 |
| S 20 | 3 59 1 | 28°33'32 | 4♐18 | 20°11 | 16°58 | 21°57 | 10°54 | 25°23 | 14°13 | 3° 1 | 4°54 | 1°54 | 1°45 | 3°21 | 16°31 | S 20 |
| M21 | 4 2 58 | 29°34'18 | 16°19 | 21°46 | 18°13 | 22°22 | 11° 4 | 25°22 | 14°13 | 3° 2 | 4°53 | 1°39 | 1°42 | 3°28 | 16°30 | M21 |
| T 22 | 4 6 54 | 0♐35'05 | 28°14 | 23°21 | 19°28 | 22°48 | 11°15 | 25°22 | 14°13 | 3° 4 | 4°52 | 1°26 | 1°38 | 3°35 | 16°30 | T 22 |
| W23 | 4 10 51 | 1°35'53 | 10♑ 4 | 24°56 | 20°43 | 23°14 | 11°25 | 25°21 | 14°D13 | 3° 5 | 4°51 | 1°15 | 1°35 | 3°42 | 16°30 | W23 |
| T 24 | 4 14 47 | 2°36'42 | 21°52 | 26°30 | 21°58 | 23°40 | 11°36 | 25°21 | 14°13 | 3° 6 | 4°50 | 1° 7 | 1°32 | 3°48 | 16°30 | T 24 |
| F 25 | 4 18 44 | 3°37'33 | 3♒42 | 28° 5 | 23°13 | 24° 7 | 11°46 | 25°20 | 14°13 | 3° 8 | 4°49 | 1° 2 | 1°29 | 3°55 | 16°30 | F 25 |
| S 26 | 4 22 40 | 4°38'24 | 15°37 | 29°39 | 24°28 | 24°34 | 11°56 | 25°20 | 14°13 | 3° 9 | 4°48 | 1° 0 | 1°26 | 4° 2 | 16°30 | S 26 |
| S 27 | 4 26 37 | 5°39'16 | 27°43 | 1♐14 | 25°43 | 25° 1 | 12° 6 | 25°20 | 14°13 | 3°10 | 4°47 | 0°59 | 1°23 | 4° 8 | 16°D30 | S 27 |
| M28 | 4 30 34 | 6°40'09 | 10♓ 4 | 2°48 | 26°58 | 25°29 | 12°16 | 25°D20 | 14°14 | 3°12 | 4°46 | 0°59 | 1°19 | 4°15 | 16°30 | M28 |
| T 29 | 4 34 30 | 7°41'02 | 22°47 | 4°22 | 28°13 | 25°56 | 12°26 | 25°20 | 14°14 | 3°13 | 4°45 | 0°59 | 1°16 | 4°22 | 16°30 | T 29 |
| W30 | 4 38 27 | 8♐41'56 | 5♈56 | 5♐56 | 29♐28 | 26♓25 | 12♎36 | 25♓20 | 14♓14 | 3♒15 | 4♋44 | 0♓56 | 1♓13 | 4♑28 | 16♓30 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s39 | 5s 8 | 0n57 | 6s18 | 2n12 | 18s35 | 0n 2 | 7s42 | 2s 2 | 1s51 | 1n 9 | 3s57 | 2s32 | 6s53 | 0s48 | 19s29 | 0n 7 | 19n43 | 3s40 | 10s 3 | 10s31 | 28s 0 | 1s 9 | 4n25 |
| W 2 | 14 58 | 1n 6 | 2 4 | 6 48 | 2 10 | 18 56 | 0s 0 | 7 32 | 1 59 | 1 56 | 1 9 | 3 57 | 2 32 | 6 53 | 0 48 | 19 29 | 0 7 | 19 43 | 3 40 | 10 4 | 10 32 | 28 0 | 1 10 | 4 24 |
| T 3 | 15 17 | 7 29 | 3 6 | 7 21 | 2 8 | 19 16 | 0 3 | 7 22 | 1 55 | 2 0 | 1 9 | 3 58 | 2 32 | 6 53 | 0 47 | 19 28 | 0 7 | 19 43 | 3 40 | 10 5 | 10 33 | 27 59 | 1 11 | 4 24 |
| F 4 | 15 36 | 13 42 | 3 59 | 7 54 | 2 5 | 19 36 | 0 5 | 7 12 | 1 51 | 2 5 | 1 9 | 3 59 | 2 32 | 6 54 | 0 47 | 19 28 | 0 7 | 19 43 | 3 40 | 10 8 | 10 34 | 27 59 | 1 12 | 4 24 |
| S 5 | 15 54 | 19 21 | 4 37 | 8 29 | 2 1 | 19 56 | 0 8 | 7 1 | 1 48 | 2 10 | 1 9 | 4 0 | 2 32 | 6 54 | 0 47 | 19 28 | 0 7 | 19 43 | 3 40 | 10 12 | 10 35 | 27 58 | 1 12 | 4 23 |
| S 6 | 16 12 | 23 55 | 4 58 | 9 5 | 1 57 | 20 15 | 0 10 | 6 51 | 1 44 | 2 14 | 1 9 | 4 1 | 2 32 | 6 54 | 0 47 | 19 28 | 0 7 | 19 43 | 3 40 | 10 16 | 10 36 | 27 58 | 1 13 | 4 23 |
| M 7 | 16 30 | 26 57 | 4 59 | 9 41 | 1 52 | 20 33 | 0 13 | 6 40 | 1 41 | 2 19 | 1 9 | 4 1 | 2 31 | 6 55 | 0 47 | 19 28 | 0 7 | 19 43 | 3 40 | 10 19 | 10 38 | 27 57 | 1 14 | 4 23 |
| T 8 | 16 47 | 28 3 | 4 40 | 10 17 | 1 47 | 20 51 | 0 15 | 6 29 | 1 38 | 2 23 | 1 9 | 4 2 | 2 31 | 6 55 | 0 47 | 19 28 | 0 7 | 19 43 | 3 40 | 10 23 | 10 39 | 27 57 | 1 15 | 4 23 |
| W 9 | 17 4 | 27 8 | 4 2 | 10 54 | 1 42 | 21 8 | 0 18 | 6 18 | 1 34 | 2 27 | 1 10 | 4 3 | 2 31 | 6 55 | 0 47 | 19 27 | 0 7 | 19 43 | 3 40 | 10 25 | 10 40 | 27 56 | 1 15 | 4 22 |
| T 10 | 17 21 | 24 23 | 3 9 | 11 30 | 1 36 | 21 24 | 0 20 | 6 7 | 1 31 | 2 32 | 1 10 | 4 3 | 2 31 | 6 55 | 0 47 | 19 27 | 0 7 | 19 43 | 3 40 | 10 27 | 10 41 | 27 55 | 1 16 | 4 22 |
| F 11 | 17 38 | 20 11 | 2 5 | 12 7 | 1 31 | 21 40 | 0 23 | 5 55 | 1 28 | 2 36 | 1 10 | 4 4 | 2 31 | 6 56 | 0 47 | 19 27 | 0 7 | 19 43 | 3 40 | 10 28 | 10 42 | 27 55 | 1 16 | 4 22 |
| S 12 | 17 54 | 14 58 | 0 56 | 12 44 | 1 24 | 21 56 | 0 25 | 5 44 | 1 25 | 2 40 | 1 10 | 4 4 | 2 30 | 6 56 | 0 47 | 19 27 | 0 7 | 19 43 | 3 40 | 10 28 | 10 43 | 27 54 | 1 17 | 4 21 |
| S 13 | 18 10 | 9 8 | 0s16 | 13 20 | 1 18 | 22 10 | 0 28 | 5 33 | 1 22 | 2 45 | 1 10 | 4 5 | 2 30 | 6 56 | 0 47 | 19 27 | 0 7 | 19 43 | 3 40 | 10 28 | 10 44 | 27 54 | 1 18 | 4 21 |
| M14 | 18 26 | 3 2 | 1 25 | 13 56 | 1 12 | 22 25 | 0 30 | 5 21 | 1 19 | 2 49 | 1 10 | 4 5 | 2 30 | 6 56 | 0 47 | 19 26 | 0 7 | 19 43 | 3 40 | 10 28 | 10 46 | 27 53 | 1 18 | 4 21 |
| T 15 | 18 41 | 3s 5 | 2 28 | 14 31 | 1 5 | 22 38 | 0 33 | 5 9 | 1 16 | 2 53 | 1 10 | 4 5 | 2 30 | 6 56 | 0 47 | 19 26 | 0 7 | 19 43 | 3 40 | 10 29 | 10 47 | 27 53 | 1 19 | 4 21 |
| W16 | 18 56 | 8 58 | 3 22 | 15 6 | 0 58 | 22 51 | 0 35 | 4 57 | 1 13 | 2 57 | 1 10 | 4 6 | 2 30 | 6 56 | 0 47 | 19 26 | 0 6 | 19 43 | 3 40 | 10 31 | 10 48 | 27 52 | 1 19 | 4 20 |
| T 17 | 19 11 | 14 24 | 4 6 | 15 41 | 0 51 | 23 3 | 0 37 | 4 45 | 1 10 | 3 2 | 1 11 | 4 6 | 2 29 | 6 56 | 0 47 | 19 26 | 0 6 | 19 43 | 3 40 | 10 35 | 10 49 | 27 51 | 1 20 | 4 20 |
| F 18 | 19 25 | 19 10 | 4 37 | 16 14 | 0 45 | 23 14 | 0 40 | 4 33 | 1 7 | 3 6 | 1 11 | 4 6 | 2 29 | 6 56 | 0 47 | 19 25 | 0 6 | 19 43 | 3 40 | 10 39 | 10 50 | 27 51 | 1 20 | 4 20 |
| S 19 | 19 39 | 23 5 | 4 55 | 16 47 | 0 38 | 23 25 | 0 42 | 4 21 | 1 4 | 3 10 | 1 11 | 4 7 | 2 29 | 6 57 | 0 47 | 19 25 | 0 6 | 19 43 | 3 40 | 10 44 | 10 51 | 27 50 | 1 21 | 4 19 |
| S 20 | 19 53 | 25 56 | 4 59 | 17 20 | 0 31 | 23 35 | 0 45 | 4 8 | 1 1 | 3 14 | 1 11 | 4 7 | 2 29 | 6 57 | 0 47 | 19 25 | 0 6 | 19 43 | 3 40 | 10 49 | 10 52 | 27 49 | 1 21 | 4 19 |
| M21 | 20 6 | 27 35 | 4 50 | 17 51 | 0 24 | 23 44 | 0 47 | 3 56 | 0 59 | 3 18 | 1 11 | 4 7 | 2 28 | 6 57 | 0 47 | 19 25 | 0 6 | 19 43 | 3 40 | 10 54 | 10 54 | 27 49 | 1 22 | 4 19 |
| T 22 | 20 19 | 27 56 | 4 28 | 18 22 | 0 17 | 23 53 | 0 49 | 3 43 | 0 56 | 3 22 | 1 11 | 4 7 | 2 28 | 6 57 | 0 47 | 19 24 | 0 6 | 19 43 | 3 40 | 10 59 | 10 55 | 27 48 | 1 22 | 4 18 |
| W23 | 20 31 | 27 0 | 3 54 | 18 52 | 0 10 | 24 1 | 0 51 | 3 30 | 0 53 | 3 26 | 1 11 | 4 7 | 2 28 | 6 57 | 0 47 | 19 24 | 0 6 | 19 43 | 3 40 | 11 3 | 10 56 | 27 48 | 1 22 | 4 18 |
| T 24 | 20 43 | 24 50 | 3 11 | 19 21 | 0 3 | 24 8 | 0 54 | 3 18 | 0 51 | 3 30 | 1 12 | 4 7 | 2 28 | 6 56 | 0 47 | 19 24 | 0 6 | 19 44 | 3 40 | 11 6 | 10 57 | 27 47 | 1 23 | 4 18 |
| F 25 | 20 55 | 21 37 | 2 19 | 19 50 | 0s 4 | 24 14 | 0 56 | 3 5 | 0 48 | 3 34 | 1 12 | 4 7 | 2 28 | 6 56 | 0 47 | 19 24 | 0 6 | 19 44 | 3 40 | 11 8 | 10 58 | 27 46 | 1 23 | 4 18 |
| S 26 | 21 6 | 17 28 | 1 20 | 20 17 | 0 10 | 24 20 | 0 58 | 2 52 | 0 46 | 3 37 | 1 12 | 4 7 | 2 27 | 6 56 | 0 47 | 19 23 | 0 6 | 19 44 | 3 40 | 11 8 | 10 59 | 27 46 | 1 23 | 4 17 |
| S 27 | 21 17 | 12 34 | 0 17 | 20 43 | 0 17 | 24 25 | 1 0 | 2 39 | 0 43 | 3 41 | 1 12 | 4 7 | 2 27 | 6 56 | 0 47 | 19 23 | 0 6 | 19 44 | 3 40 | 11 9 | 11 0 | 27 45 | 1 24 | 4 17 |
| M28 | 21 28 | 7 4 | 0n48 | 21 9 | 0 24 | 24 29 | 1 2 | 2 26 | 0 41 | 3 45 | 1 12 | 4 6 | 2 27 | 6 56 | 0 46 | 19 23 | 0 6 | 19 44 | 3 40 | 11 9 | 11 1 | 27 44 | 1 24 | 4 17 |
| T 29 | 21 38 | 1 9 | 1 53 | 21 33 | 0 30 | 24 33 | 1 4 | 2 12 | 0 39 | 3 49 | 1 12 | 4 6 | 2 27 | 6 56 | 0 46 | 19 22 | 0 6 | 19 44 | 3 40 | 11 9 | 11 3 | 27 43 | 1 24 | 4 16 |
| W30 | 21s48 | 5n 1 | 2n53 | 21s56 | 0s36 | 24s35 | 1s 7 | 1s59 | 0s36 | 3s52 | 1n13 | 4s 6 | 2s26 | 6s56 | 0s46 | 19s22 | 0n 6 | 19n44 | 3s40 | 11s10 | 11s 4 | 27s43 | 1s24 | 4n16 |

Julian Day Number = 2332050.5, Delta T = 27.95 sec
Ecliptic obliquity = 23°29'03, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'25, Lahiri = 19°17'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1672
# geocentric

## DECEMBER 1672 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 42 23 | 9♐42'52 | 19♈34 | 7♐31 | 0♑43 | 26♓53 | 12♎45 | 25♓20 | 14♓15 | 3♒16 | 4°R43 | 0°R51 | 1♓10 | 4♑35 | 16♓30 | T 1 |
| F 2 | 4 46 20 | 10°43'48 | 3♉43 | 9° 5 | 1°57 | 27°22 | 12°55 | 25°21 | 14°15 | 3°18 | 4♋42 | 0♓44 | 1° 7 | 4°42 | 16°30 | F 2 |
| S 3 | 4 50 16 | 11°44'44 | 18°21 | 10°39 | 3°12 | 27°51 | 13° 4 | 25°21 | 14°16 | 3°19 | 4°41 | 0°34 | 1° 3 | 4°49 | 16°31 | S 3 |
| S 4 | 4 54 13 | 12°45'42 | 3♊21 | 12°13 | 4°27 | 28°20 | 13°13 | 25°22 | 14°16 | 3°21 | 4°40 | 0°23 | 1° 0 | 4°55 | 16°31 | S 4 |
| M 5 | 4 58 10 | 13°46'40 | 18°35 | 13°48 | 5°42 | 28°49 | 13°23 | 25°23 | 14°17 | 3°23 | 4°39 | 0°11 | 0°57 | 5° 2 | 16°32 | M 5 |
| T 6 | 5 2 6 | 14°47'40 | 3♋51 | 15°22 | 6°57 | 29°19 | 13°32 | 25°24 | 14°17 | 3°24 | 4°37 | 0° 1 | 0°54 | 5° 9 | 16°32 | T 6 |
| W 7 | 5 6 3 | 15°48'40 | 18°59 | 16°56 | 8°12 | 29°49 | 13°41 | 25°25 | 14°18 | 3°26 | 4°36 | 29♒53 | 0°51 | 5°15 | 16°33 | W 7 |
| T 8 | 5 9 59 | 16°49'42 | 3♌49 | 18°31 | 9°27 | 0♈19 | 13°50 | 25°26 | 14°19 | 3°28 | 4°35 | 29°48 | 0°48 | 5°22 | 16°33 | T 8 |
| F 9 | 5 13 56 | 17°50'44 | 18°16 | 20° 5 | 10°41 | 0°49 | 13°58 | 25°27 | 14°20 | 3°29 | 4°34 | 29°46 | 0°44 | 5°29 | 16°34 | F 9 |
| S 10 | 5 17 52 | 18°51'47 | 2♍17 | 21°40 | 11°56 | 1°20 | 14° 7 | 25°28 | 14°20 | 3°31 | 4°33 | 29°D46 | 0°41 | 5°35 | 16°35 | S 10 |
| S 11 | 5 21 49 | 19°52'51 | 15°52 | 23°15 | 13°11 | 1°51 | 14°16 | 25°29 | 14°21 | 3°33 | 4°32 | 29°R46 | 0°38 | 5°42 | 16°36 | S 11 |
| M12 | 5 25 45 | 20°53'56 | 29° 4 | 24°50 | 14°26 | 2°22 | 14°24 | 25°31 | 14°22 | 3°34 | 4°30 | 29°46 | 0°35 | 5°49 | 16°36 | M12 |
| T 13 | 5 29 42 | 21°55'02 | 11♎56 | 26°25 | 15°40 | 2°53 | 14°32 | 25°33 | 14°23 | 3°36 | 4°29 | 29°44 | 0°32 | 5°56 | 16°37 | T 13 |
| W14 | 5 33 39 | 22°56'09 | 24°32 | 28° 0 | 16°55 | 3°24 | 14°40 | 25°34 | 14°24 | 3°38 | 4°28 | 29°39 | 0°29 | 6° 2 | 16°38 | W14 |
| T 15 | 5 37 35 | 23°57'16 | 6♏54 | 29°36 | 18°10 | 3°56 | 14°49 | 25°36 | 14°26 | 3°40 | 4°27 | 29°32 | 0°25 | 6° 9 | 16°39 | T 15 |
| F 16 | 5 41 32 | 24°58'25 | 19° 7 | 1♑11 | 19°25 | 4°27 | 14°56 | 25°38 | 14°27 | 3°42 | 4°26 | 29°22 | 0°22 | 6°16 | 16°40 | F 16 |
| S 17 | 5 45 28 | 25°59'34 | 1♐12 | 2°47 | 20°39 | 4°59 | 15° 4 | 25°40 | 14°28 | 3°44 | 4°24 | 29°11 | 0°19 | 6°22 | 16°42 | S 17 |
| S 18 | 5 49 25 | 27° 0'43 | 13°11 | 4°23 | 21°54 | 5°31 | 15°12 | 25°42 | 14°29 | 3°46 | 4°23 | 28°58 | 0°16 | 6°29 | 16°43 | S 18 |
| M19 | 5 53 21 | 28° 1'53 | 25° 6 | 5°59 | 23° 9 | 6° 4 | 15°19 | 25°44 | 14°30 | 3°48 | 4°22 | 28°45 | 0°13 | 6°36 | 16°44 | M19 |
| T 20 | 5 57 18 | 29° 3'04 | 6♑57 | 7°36 | 24°24 | 6°36 | 15°27 | 25°47 | 14°32 | 3°49 | 4°21 | 28°34 | 0° 9 | 6°42 | 16°45 | T 20 |
| W21 | 6 1 14 | 0♑ 4'14 | 18°47 | 9°12 | 25°38 | 7° 9 | 15°34 | 25°49 | 14°33 | 3°51 | 4°19 | 28°25 | 0° 6 | 6°49 | 16°47 | W21 |
| T 22 | 6 5 11 | 1° 5'25 | 0♒36 | 10°48 | 26°53 | 7°41 | 15°41 | 25°52 | 14°35 | 3°53 | 4°18 | 28°18 | 0° 3 | 6°56 | 16°48 | T 22 |
| F 23 | 6 9 8 | 2° 6'36 | 12°28 | 12°25 | 28° 8 | 8°14 | 15°48 | 25°54 | 14°36 | 3°55 | 4°17 | 28°14 | 29♒59 | 7° 3 | 16°50 | F 23 |
| S 24 | 6 13 4 | 3° 7'47 | 24°26 | 14° 2 | 29°22 | 8°47 | 15°55 | 25°57 | 14°38 | 3°57 | 4°16 | 28°D12 | 29°57 | 7° 9 | 16°51 | S 24 |
| S 25 | 6 17 1 | 4° 8'58 | 6♓33 | 15°38 | 0♒37 | 9°21 | 16° 2 | 26° 0 | 14°39 | 3°59 | 4°15 | 28°13 | 29°54 | 7°16 | 16°53 | S 25 |
| M26 | 6 20 57 | 5°10'09 | 18°53 | 17°15 | 1°51 | 9°54 | 16° 8 | 26° 3 | 14°41 | 4° 1 | 4°13 | 28°14 | 29°50 | 7°23 | 16°54 | M26 |
| T 27 | 6 24 54 | 6°11'19 | 1♈32 | 18°51 | 3° 6 | 10°27 | 16°14 | 26° 6 | 14°43 | 4° 4 | 4°12 | 28°R15 | 29°47 | 7°29 | 16°56 | T 27 |
| W28 | 6 28 50 | 7°12'29 | 14°34 | 20°27 | 4°20 | 11° 1 | 16°21 | 26° 9 | 14°44 | 4° 6 | 4°11 | 28°14 | 29°44 | 7°36 | 16°58 | W28 |
| T 29 | 6 32 47 | 8°13'39 | 28° 2 | 22° 3 | 5°35 | 11°35 | 16°27 | 26°12 | 14°46 | 4° 8 | 4°10 | 28°12 | 29°41 | 7°43 | 16°59 | T 29 |
| F 30 | 6 36 43 | 9°14'49 | 12♉ 0 | 23°38 | 6°49 | 12° 9 | 16°33 | 26°16 | 14°48 | 4°10 | 4° 8 | 28° 8 | 29°38 | 7°49 | 17° 1 | F 30 |
| S 31 | 6 40 40 | 10♑15'58 | 26♉27 | 25♑12 | 8♒ 4 | 12♈43 | 16♎38 | 26♓19 | 14♓50 | 4♒12 | 4♋ 7 | 28♒ 2 | 29♒35 | 7♑56 | 17♓ 3 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 21s57 | 11n10 | 3n47 | 22s18 | 0s43 | 24s37 | 1s 9 | 1s46 | 0s34 | 3s56 | 1n13 | 4s 5 | 2s26 | 6s56 | 0s46 | 19s22 | 0n 6 | 19n44 | 3s40 | 11s11 | 11s 5 | 27s42 | 1s25 | 4n16 | |
| F 2 | 22 6 | 16 59 | 4 28 | 22 39 | 0 49 | 24 39 | 1 10 | 1 32 | 0 32 | 3 59 | 1 13 | 4 5 | 2 26 | 6 55 | 0 46 | 19 21 | 0 6 | 19 44 | 3 40 | 11 14 | 11 6 | 27 41 | 1 25 | 4 15 | |
| S 3 | 22 14 | 22 1 | 4 54 | 22 59 | 0 55 | 24 39 | 1 12 | 1 19 | 0 30 | 4 3 | 1 13 | 4 5 | 2 26 | 6 55 | 0 46 | 19 21 | 0 6 | 19 44 | 3 40 | 11 18 | 11 7 | 27 41 | 1 25 | 4 15 | |
| S 4 | 22 22 | 25 46 | 5 0 | 23 18 | 1 1 | 24 39 | 1 14 | 1 5 | 0 27 | 4 6 | 1 13 | 4 4 | 2 26 | 6 55 | 0 46 | 19 21 | 0 6 | 19 44 | 3 40 | 11 22 | 11 8 | 27 40 | 1 25 | 4 15 | |
| M 5 | 22 30 | 27 44 | 4 46 | 23 36 | 1 6 | 24 38 | 1 16 | 0 51 | 0 25 | 4 10 | 1 13 | 4 4 | 2 25 | 6 55 | 0 46 | 19 20 | 0 6 | 19 44 | 3 40 | 11 26 | 11 9 | 27 39 | 1 25 | 4 14 | |
| T 6 | 22 37 | 27 36 | 4 10 | 23 52 | 1 12 | 24 36 | 1 18 | 0 38 | 0 23 | 4 13 | 1 14 | 4 3 | 2 25 | 6 54 | 0 46 | 19 20 | 0 6 | 19 44 | 3 40 | 11 29 | 11 10 | 27 38 | 1 25 | 4 14 | |
| W 7 | 22 44 | 25 24 | 3 18 | 24 8 | 1 17 | 24 33 | 1 20 | 0 24 | 0 21 | 4 16 | 1 14 | 4 3 | 2 25 | 6 54 | 0 46 | 19 19 | 0 6 | 19 44 | 3 40 | 11 32 | 11 12 | 27 37 | 1 25 | 4 14 | |
| T 8 | 22 50 | 21 29 | 2 13 | 24 21 | 1 23 | 24 30 | 1 21 | 0 10 | 0 19 | 4 20 | 1 14 | 4 2 | 2 25 | 6 54 | 0 46 | 19 19 | 0 6 | 19 44 | 3 40 | 11 34 | 11 13 | 27 37 | 1 25 | 4 14 | |
| F 9 | 22 56 | 16 21 | 1 1 | 24 34 | 1 28 | 24 26 | 1 23 | 0n 4 | 0 17 | 4 23 | 1 14 | 4 1 | 2 24 | 6 53 | 0 46 | 19 19 | 0 6 | 19 44 | 3 40 | 11 35 | 11 14 | 27 36 | 1 25 | 4 13 | |
| S 10 | 23 1 | 10 29 | 0s13 | 24 45 | 1 32 | 24 21 | 1 24 | 0 18 | 0 15 | 4 26 | 1 14 | 4 1 | 2 24 | 6 53 | 0 46 | 19 18 | 0 6 | 19 44 | 3 40 | 11 35 | 11 15 | 27 35 | 1 25 | 4 13 | |
| S 11 | 23 6 | 4 17 | 1 24 | 24 56 | 1 37 | 24 15 | 1 26 | 0 32 | 0 13 | 4 29 | 1 15 | 4 0 | 2 24 | 6 53 | 0 46 | 19 18 | 0 6 | 19 45 | 3 40 | 11 35 | 11 16 | 27 34 | 1 25 | 4 13 | |
| M12 | 23 10 | 1s54 | 2 29 | 25 4 | 1 41 | 24 9 | 1 27 | 0 46 | 0 12 | 4 32 | 1 15 | 3 59 | 2 24 | 6 52 | 0 46 | 19 17 | 0 6 | 19 45 | 3 40 | 11 35 | 11 17 | 27 33 | 1 25 | 4 12 | |
| T 13 | 23 14 | 7 51 | 3 24 | 25 11 | 1 45 | 24 2 | 1 29 | 1 0 | 0 10 | 4 35 | 1 15 | 3 58 | 2 23 | 6 52 | 0 46 | 19 17 | 0 6 | 19 45 | 3 40 | 11 35 | 11 18 | 27 33 | 1 25 | 4 12 | |
| W14 | 23 18 | 13 22 | 4 8 | 25 17 | 1 49 | 23 54 | 1 30 | 1 14 | 0 8 | 4 38 | 1 15 | 3 57 | 2 23 | 6 51 | 0 46 | 19 17 | 0 6 | 19 45 | 3 40 | 11 37 | 11 20 | 27 32 | 1 25 | 4 12 | |
| T 15 | 23 21 | 18 15 | 4 40 | 25 22 | 1 53 | 23 46 | 1 32 | 1 28 | 0 6 | 4 41 | 1 15 | 3 56 | 2 23 | 6 51 | 0 46 | 19 16 | 0 6 | 19 45 | 3 40 | 11 39 | 11 21 | 27 31 | 1 25 | 4 11 | |
| F 16 | 23 23 | 22 18 | 4 58 | 25 25 | 1 56 | 23 36 | 1 33 | 1 42 | 0 4 | 4 44 | 1 16 | 3 55 | 2 23 | 6 50 | 0 46 | 19 16 | 0 6 | 19 45 | 3 40 | 11 43 | 11 22 | 27 30 | 1 25 | 4 11 | |
| S 17 | 23 25 | 25 22 | 5 2 | 25 26 | 1 59 | 23 26 | 1 34 | 1 57 | 0 3 | 4 47 | 1 16 | 3 54 | 2 23 | 6 50 | 0 46 | 19 15 | 0 6 | 19 45 | 3 40 | 11 47 | 11 23 | 27 29 | 1 25 | 4 11 | |
| S 18 | 23 27 | 27 17 | 4 53 | 25 26 | 2 2 | 23 16 | 1 35 | 2 11 | 0 1 | 4 50 | 1 16 | 3 53 | 2 22 | 6 49 | 0 46 | 19 15 | 0 6 | 19 45 | 3 40 | 11 51 | 11 24 | 27 28 | 1 24 | 4 11 | |
| M19 | 23 28 | 27 55 | 4 32 | 25 25 | 2 4 | 23 4 | 1 36 | 2 25 | 0n 1 | 4 52 | 1 16 | 3 52 | 2 22 | 6 49 | 0 46 | 19 15 | 0 6 | 19 45 | 3 40 | 11 56 | 11 25 | 27 28 | 1 24 | 4 10 | |
| T 20 | 23 29 | 27 16 | 3 58 | 25 22 | 2 6 | 22 52 | 1 37 | 2 39 | 0 2 | 4 55 | 1 16 | 3 51 | 2 22 | 6 48 | 0 46 | 19 14 | 0 6 | 19 45 | 3 40 | 12 0 | 11 26 | 27 27 | 1 24 | 4 10 | |
| W21 | 23 29 | 25 23 | 3 15 | 25 17 | 2 8 | 22 39 | 1 38 | 2 54 | 0 4 | 4 58 | 1 17 | 3 50 | 2 22 | 6 48 | 0 46 | 19 14 | 0 6 | 19 45 | 3 40 | 12 3 | 11 27 | 27 26 | 1 24 | 4 10 | |
| T 22 | 23 29 | 22 22 | 2 22 | 25 11 | 2 9 | 22 26 | 1 39 | 3 8 | 0 5 | 5 0 | 1 17 | 3 49 | 2 21 | 6 47 | 0 46 | 19 13 | 0 6 | 19 45 | 3 40 | 12 5 | 11 28 | 27 25 | 1 23 | 4 9 | |
| F 23 | 23 28 | 18 26 | 1 23 | 25 3 | 2 10 | 22 12 | 1 39 | 3 23 | 0 7 | 5 3 | 1 17 | 3 47 | 2 21 | 6 46 | 0 46 | 19 13 | 0 6 | 19 46 | 3 39 | 12 7 | 11 30 | 27 24 | 1 23 | 4 9 | |
| S 24 | 23 27 | 13 43 | 0 20 | 24 54 | 2 10 | 21 57 | 1 40 | 3 37 | 0 8 | 5 5 | 1 17 | 3 46 | 2 21 | 6 46 | 0 45 | 19 12 | 0 6 | 19 46 | 3 39 | 12 7 | 11 31 | 27 23 | 1 23 | 4 9 | |
| S 25 | 23 25 | 8 26 | 0n45 | 24 43 | 2 10 | 21 42 | 1 41 | 3 52 | 0 10 | 5 7 | 1 18 | 3 45 | 2 21 | 6 45 | 0 45 | 19 12 | 0 6 | 19 46 | 3 39 | 12 7 | 11 32 | 27 22 | 1 23 | 4 9 | |
| M26 | 23 23 | 2 44 | 1 49 | 24 31 | 2 10 | 21 26 | 1 41 | 4 6 | 0 11 | 5 10 | 1 18 | 3 43 | 2 21 | 6 44 | 0 45 | 19 11 | 0 6 | 19 46 | 3 39 | 12 7 | 11 33 | 27 21 | 1 22 | 4 8 | |
| T 27 | 23 20 | 3n12 | 2 49 | 24 17 | 2 8 | 21 9 | 1 42 | 4 20 | 0 13 | 5 12 | 1 18 | 3 42 | 2 20 | 6 44 | 0 45 | 19 11 | 0 6 | 19 46 | 3 39 | 12 6 | 11 34 | 27 20 | 1 22 | 4 8 | |
| W28 | 23 17 | 9 11 | 3 43 | 24 1 | 2 7 | 20 52 | 1 42 | 4 35 | 0 14 | 5 14 | 1 18 | 3 41 | 2 20 | 6 43 | 0 45 | 19 10 | 0 6 | 19 46 | 3 39 | 12 6 | 11 35 | 27 19 | 1 21 | 4 8 | |
| T 29 | 23 14 | 14 56 | 4 26 | 23 44 | 2 5 | 20 34 | 1 43 | 4 49 | 0 15 | 5 16 | 1 18 | 3 39 | 2 20 | 6 42 | 0 45 | 19 10 | 0 6 | 19 46 | 3 39 | 12 7 | 11 36 | 27 19 | 1 21 | 4 7 | |
| F 30 | 23 10 | 20 9 | 4 56 | 23 25 | 2 2 | 20 16 | 1 43 | 5 4 | 0 17 | 5 18 | 1 19 | 3 38 | 2 20 | 6 42 | 0 45 | 19 9 | 0 6 | 19 46 | 3 39 | 12 9 | 11 37 | 27 18 | 1 20 | 4 7 | |
| S 31 | 23s 5 | 24n23 | 5n 8 | 23s 4 | 1s58 | 19s57 | 1s43 | 5n18 | 0n18 | 5s20 | 1n19 | 3s36 | 2s20 | 6s41 | 0s45 | 19s 9 | 0n 6 | 19n46 | 3s39 | 12s11 | 11s39 | 27s17 | 1s20 | 4n 7 | |

Julian Day Number = 2332080.5, Delta T = 27.90 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'29, Lahiri = 19°17'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## JANUARY 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 44 37 | 11♉17'07 | 11♊19 | 26♉46 | 9♒18 | 13♈17 | 16♎44 | 26♓23 | 14♓52 | 4♒14 | 4°R 6 | 27°R55 | 29♒31 | 8♉ 3 | 17♓ 5 | S 1 |
| M 2 | 6 48 33 | 12°18'16 | 26°29 | 28°18 | 10°33 | 13°51 | 16°49 | 26°26 | 14°54 | 4°16 | 4♋ 5 | 27♒48 | 29°28 | 8° 9 | 17° 7 | M 2 |
| T 3 | 6 52 30 | 13°19'25 | 11♋49 | 29°49 | 11°47 | 14°25 | 16°55 | 26°30 | 14°56 | 4°18 | 4° 4 | 27°41 | 29°25 | 8°16 | 17° 9 | T 3 |
| W 4 | 6 56 26 | 14°20'33 | 27° 6 | 1♒19 | 13° 1 | 15° 0 | 17° 0 | 26°34 | 14°58 | 4°21 | 4° 2 | 27°36 | 29°22 | 8°23 | 17°11 | W 4 |
| T 5 | 7 0 23 | 15°21'41 | 12♌ 9 | 2°46 | 14°16 | 15°34 | 17° 5 | 26°38 | 15° 0 | 4°23 | 4° 1 | 27°33 | 29°19 | 8°30 | 17°13 | T 5 |
| F 6 | 7 4 19 | 16°22'49 | 26°52 | 4°11 | 15°30 | 16° 9 | 17°10 | 26°42 | 15° 2 | 4°25 | 4° 0 | 27°D32 | 29°15 | 8°36 | 17°15 | F 6 |
| S 7 | 7 8 16 | 17°23'57 | 11♍ 8 | 5°33 | 16°44 | 16°44 | 17°14 | 26°46 | 15° 4 | 4°27 | 3°59 | 27°33 | 29°12 | 8°43 | 17°18 | S 7 |
| S 8 | 7 12 13 | 18°25'04 | 24°55 | 6°51 | 17°58 | 17°18 | 17°19 | 26°50 | 15° 6 | 4°29 | 3°58 | 27°34 | 29° 9 | 8°50 | 17°20 | S 8 |
| M 9 | 7 16 9 | 19°26'11 | 8♎16 | 8° 5 | 19°12 | 17°53 | 17°23 | 26°54 | 15° 9 | 4°31 | 3°56 | 27°36 | 29° 6 | 8°56 | 17°22 | M 9 |
| T 10 | 7 20 6 | 20°27'19 | 21°12 | 9°14 | 20°27 | 18°28 | 17°27 | 26°58 | 15°11 | 4°34 | 3°55 | 27°R36 | 29° 3 | 9° 3 | 17°25 | T 10 |
| W11 | 7 24 2 | 21°28'26 | 3♏48 | 10°17 | 21°41 | 19° 3 | 17°31 | 27° 3 | 15°13 | 4°36 | 3°54 | 27°35 | 29° 0 | 9°10 | 17°27 | W11 |
| T 12 | 7 27 59 | 22°29'33 | 16° 7 | 11°15 | 22°55 | 19°39 | 17°35 | 27° 7 | 15°15 | 4°38 | 3°53 | 27°33 | 28°56 | 9°16 | 17°29 | T 12 |
| F 13 | 7 31 55 | 23°30'39 | 28°14 | 12° 4 | 24° 9 | 20°14 | 17°38 | 27°12 | 15°18 | 4°40 | 3°52 | 27°29 | 28°53 | 9°23 | 17°32 | F 13 |
| S 14 | 7 35 52 | 24°31'45 | 10♐12 | 12°46 | 25°23 | 20°49 | 17°42 | 27°16 | 15°20 | 4°43 | 3°51 | 27°23 | 28°50 | 9°30 | 17°34 | S 14 |
| S 15 | 7 39 48 | 25°32'51 | 22° 5 | 13°19 | 26°37 | 21°25 | 17°45 | 27°21 | 15°23 | 4°45 | 3°49 | 27°17 | 28°47 | 9°36 | 17°37 | S 15 |
| M16 | 7 43 45 | 26°33'56 | 3♑56 | 13°41 | 27°51 | 22° 0 | 17°48 | 27°26 | 15°25 | 4°47 | 3°48 | 27°11 | 28°44 | 9°43 | 17°40 | M16 |
| T 17 | 7 47 42 | 27°35'01 | 15°45 | 13°54 | 29° 4 | 22°36 | 17°51 | 27°31 | 15°28 | 4°49 | 3°47 | 27° 6 | 28°41 | 9°50 | 17°42 | T 17 |
| W18 | 7 51 38 | 28°36'05 | 27°37 | 13°R55 | 0♓18 | 23°11 | 17°54 | 27°36 | 15°30 | 4°52 | 3°46 | 27° 1 | 28°37 | 9°57 | 17°45 | W18 |
| T 19 | 7 55 35 | 29°37'08 | 9♒31 | 13°44 | 1°32 | 23°47 | 17°56 | 27°41 | 15°33 | 4°54 | 3°45 | 26°58 | 28°34 | 10° 3 | 17°48 | T 19 |
| F 20 | 7 59 31 | 0♒38'10 | 21°31 | 13°22 | 2°46 | 24°23 | 17°59 | 27°46 | 15°36 | 4°56 | 3°44 | 26°D57 | 28°31 | 10°10 | 17°50 | F 20 |
| S 21 | 8 3 28 | 1°39'11 | 3♓38 | 12°49 | 4° 0 | 24°59 | 18° 1 | 27°51 | 15°38 | 4°59 | 3°43 | 26°57 | 28°28 | 10°17 | 17°53 | S 21 |
| S 22 | 8 7 24 | 2°40'12 | 15°54 | 12° 5 | 5°13 | 25°35 | 18° 3 | 27°56 | 15°41 | 5° 1 | 3°42 | 26°58 | 28°25 | 10°23 | 17°56 | S 22 |
| M23 | 8 11 21 | 3°41'11 | 28°22 | 11°12 | 6°27 | 26°11 | 18° 5 | 28° 2 | 15°44 | 5° 3 | 3°41 | 27° 0 | 28°21 | 10°30 | 17°59 | M23 |
| T 24 | 8 15 17 | 4°42'09 | 11♈ 6 | 10°11 | 7°40 | 26°47 | 18° 6 | 28° 7 | 15°46 | 5° 5 | 3°40 | 27° 1 | 28°18 | 10°37 | 18° 2 | T 24 |
| W25 | 8 19 14 | 5°43'05 | 24° 8 | 9° 3 | 8°54 | 27°23 | 18° 8 | 28°13 | 15°49 | 5° 8 | 3°39 | 27° 3 | 28°15 | 10°43 | 18° 5 | W25 |
| T 26 | 8 23 11 | 6°44'00 | 7♉31 | 7°52 | 10° 7 | 27°59 | 18° 9 | 28°18 | 15°52 | 5°10 | 3°38 | 27°R 3 | 28°12 | 10°50 | 18° 8 | T 26 |
| F 27 | 8 27 7 | 7°44'55 | 21°18 | 6°38 | 11°21 | 28°36 | 18°10 | 28°24 | 15°55 | 5°12 | 3°37 | 27° 3 | 28° 9 | 10°57 | 18°11 | F 27 |
| S 28 | 8 31 4 | 8°45'47 | 5♊28 | 5°24 | 12°34 | 29°12 | 18°11 | 28°30 | 15°58 | 5°14 | 3°36 | 27° 1 | 28° 6 | 11° 3 | 18°14 | S 28 |
| S 29 | 8 35 0 | 9°46'39 | 20° 0 | 4°12 | 13°47 | 29°48 | 18°11 | 28°35 | 16° 1 | 5°17 | 3°35 | 26°59 | 28° 2 | 11°10 | 18°17 | S 29 |
| M30 | 8 38 57 | 10°47'29 | 4♋51 | 3° 4 | 15° 0 | 0♉25 | 18°12 | 28°41 | 16° 4 | 5°19 | 3°34 | 26°57 | 27°59 | 11°17 | 18°20 | M30 |
| T 31 | 8 42 53 | 11♒48'17 | 19♋53 | 2♒ 1 | 16♓14 | 1♉ 1 | 18♎12 | 28♓47 | 16♓ 7 | 5♒21 | 3♋33 | 26♒55 | 27♒56 | 11♉23 | 18♓23 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 0 | 27n 7 | 5n 0 | 22s43 | 1s54 | 19s37 | 1s43 | 5n33 | 0n19 | 5s22 | 1n19 | 3s34 | 2s19 | 6s40 | 0s45 | 19s 8 | 0n 6 | 19n46 | 3s39 | 12s13 | 11s40 | 27s16 | 1s19 | 4n 7 |
| M 2 | 22 55 | 27 57 | 4 30 | 22 20 | 1 49 | 19 17 | 1 43 | 5 47 | 0 21 | 5 24 | 1 19 | 3 33 | 2 19 | 6 39 | 0 45 | 19 8 | 0 6 | 19 46 | 3 39 | 12 16 | 11 41 | 27 15 | 1 19 | 4 6 |
| T 3 | 22 49 | 26 38 | 3 42 | 21 55 | 1 44 | 18 56 | 1 43 | 6 2 | 0 22 | 5 26 | 1 20 | 3 31 | 2 19 | 6 38 | 0 45 | 19 7 | 0 6 | 19 47 | 3 39 | 12 18 | 11 42 | 27 14 | 1 18 | 4 6 |
| W 4 | 22 43 | 23 21 | 2 37 | 21 29 | 1 38 | 18 35 | 1 43 | 6 16 | 0 23 | 5 28 | 1 20 | 3 29 | 2 19 | 6 38 | 0 45 | 19 7 | 0 6 | 19 47 | 3 39 | 12 20 | 11 43 | 27 13 | 1 18 | 4 6 |
| T 5 | 22 36 | 18 30 | 1 22 | 21 3 | 1 30 | 18 13 | 1 43 | 6 31 | 0 24 | 5 29 | 1 20 | 3 28 | 2 18 | 6 37 | 0 45 | 19 6 | 0 6 | 19 47 | 3 39 | 12 21 | 11 44 | 27 12 | 1 17 | 4 5 |
| F 6 | 22 29 | 12 38 | 0 4 | 20 35 | 1 22 | 17 51 | 1 42 | 6 45 | 0 25 | 5 31 | 1 20 | 3 26 | 2 18 | 6 36 | 0 45 | 19 6 | 0 6 | 19 47 | 3 39 | 12 21 | 11 45 | 27 11 | 1 17 | 4 5 |
| S 7 | 22 21 | 6 17 | 1s13 | 20 6 | 1 13 | 17 28 | 1 42 | 7 0 | 0 27 | 5 32 | 1 21 | 3 24 | 2 18 | 6 35 | 0 45 | 19 5 | 0 6 | 19 47 | 3 38 | 12 21 | 11 46 | 27 10 | 1 16 | 4 5 |
| S 8 | 22 13 | 0s10 | 2 23 | 19 37 | 1 3 | 17 5 | 1 42 | 7 14 | 0 28 | 5 34 | 1 21 | 3 22 | 2 18 | 6 34 | 0 45 | 19 5 | 0 6 | 19 47 | 3 38 | 12 20 | 11 47 | 27 9 | 1 15 | 4 5 |
| M 9 | 22 4 | 6 24 | 3 23 | 19 7 | 0 52 | 16 42 | 1 41 | 7 28 | 0 29 | 5 35 | 1 21 | 3 20 | 2 18 | 6 33 | 0 45 | 19 4 | 0 6 | 19 47 | 3 38 | 12 20 | 11 49 | 27 8 | 1 15 | 4 4 |
| T 10 | 21 55 | 12 10 | 4 11 | 18 38 | 0 40 | 16 17 | 1 41 | 7 43 | 0 30 | 5 37 | 1 21 | 3 19 | 2 18 | 6 32 | 0 45 | 19 4 | 0 6 | 19 47 | 3 38 | 12 20 | 11 50 | 27 7 | 1 14 | 4 4 |
| W11 | 21 46 | 17 16 | 4 45 | 18 8 | 0 28 | 15 53 | 1 40 | 7 57 | 0 31 | 5 38 | 1 22 | 3 17 | 2 17 | 6 31 | 0 45 | 19 3 | 0 6 | 19 47 | 3 38 | 12 20 | 11 51 | 27 6 | 1 13 | 4 4 |
| T 12 | 21 36 | 21 33 | 5 5 | 17 39 | 0 14 | 15 28 | 1 39 | 8 12 | 0 32 | 5 39 | 1 22 | 3 15 | 2 17 | 6 31 | 0 45 | 19 3 | 0 6 | 19 48 | 3 38 | 12 21 | 11 52 | 27 5 | 1 13 | 4 4 |
| F 13 | 21 26 | 24 51 | 5 11 | 17 11 | 0n 1 | 15 3 | 1 38 | 8 26 | 0 33 | 5 40 | 1 22 | 3 13 | 2 17 | 6 30 | 0 45 | 19 2 | 0 6 | 19 48 | 3 38 | 12 22 | 11 53 | 27 3 | 1 12 | 4 3 |
| S 14 | 21 15 | 27 2 | 5 4 | 16 44 | 0 17 | 14 37 | 1 37 | 8 40 | 0 34 | 5 41 | 1 22 | 3 11 | 2 17 | 6 29 | 0 45 | 19 2 | 0 6 | 19 48 | 3 38 | 12 24 | 11 54 | 27 2 | 1 11 | 4 3 |
| S 15 | 21 4 | 27 57 | 4 43 | 16 19 | 0 33 | 14 11 | 1 36 | 8 54 | 0 35 | 5 42 | 1 23 | 3 9 | 2 17 | 6 28 | 0 45 | 19 1 | 0 6 | 19 48 | 3 38 | 12 26 | 11 55 | 27 1 | 1 10 | 4 3 |
| M16 | 20 53 | 27 36 | 4 10 | 15 56 | 0 51 | 13 44 | 1 35 | 9 9 | 0 36 | 5 43 | 1 23 | 3 6 | 2 16 | 6 27 | 0 45 | 19 1 | 0 6 | 19 48 | 3 38 | 12 28 | 11 56 | 27 0 | 1 10 | 4 3 |
| T 17 | 20 41 | 25 58 | 3 27 | 15 36 | 1 8 | 13 17 | 1 34 | 9 23 | 0 37 | 5 44 | 1 23 | 3 4 | 2 16 | 6 26 | 0 45 | 19 0 | 0 6 | 19 48 | 3 38 | 12 30 | 11 57 | 26 59 | 1 9 | 4 2 |
| W18 | 20 29 | 23 12 | 2 34 | 15 18 | 1 26 | 12 50 | 1 33 | 9 37 | 0 38 | 5 45 | 1 23 | 3 2 | 2 16 | 6 25 | 0 45 | 19 0 | 0 6 | 19 48 | 3 38 | 12 32 | 11 58 | 26 58 | 1 8 | 4 2 |
| T 19 | 20 16 | 19 25 | 1 34 | 15 4 | 1 45 | 12 22 | 1 32 | 9 51 | 0 39 | 5 46 | 1 24 | 3 0 | 2 16 | 6 24 | 0 45 | 18 59 | 0 6 | 19 48 | 3 37 | 12 33 | 12 0 | 26 57 | 1 7 | 4 2 |
| F 20 | 20 3 | 14 50 | 0 30 | 14 53 | 2 3 | 11 55 | 1 30 | 10 5 | 0 40 | 5 46 | 1 24 | 2 58 | 2 16 | 6 22 | 0 45 | 18 59 | 0 6 | 19 49 | 3 37 | 12 33 | 12 1 | 26 56 | 1 6 | 4 2 |
| S 21 | 19 50 | 9 37 | 0n37 | 14 45 | 2 20 | 11 26 | 1 29 | 10 19 | 0 41 | 5 47 | 1 24 | 2 56 | 2 16 | 6 21 | 0 45 | 18 58 | 0 6 | 19 49 | 3 37 | 12 33 | 12 2 | 26 55 | 1 5 | 4 2 |
| S 22 | 19 36 | 4 0 | 1 42 | 14 42 | 2 36 | 10 58 | 1 27 | 10 33 | 0 42 | 5 47 | 1 24 | 2 53 | 2 15 | 6 20 | 0 45 | 18 57 | 0 6 | 19 49 | 3 37 | 12 33 | 12 3 | 26 54 | 1 4 | 4 1 |
| M23 | 19 22 | 1n52 | 2 45 | 14 42 | 2 52 | 10 29 | 1 26 | 10 47 | 0 42 | 5 48 | 1 25 | 2 51 | 2 15 | 6 19 | 0 45 | 18 57 | 0 6 | 19 49 | 3 37 | 12 32 | 12 4 | 26 53 | 1 4 | 4 1 |
| T 24 | 19 7 | 7 46 | 3 40 | 14 45 | 3 5 | 10 0 | 1 24 | 11 1 | 0 43 | 5 48 | 1 25 | 2 49 | 2 15 | 6 18 | 0 44 | 18 56 | 0 6 | 19 49 | 3 37 | 12 32 | 12 5 | 26 51 | 1 3 | 4 1 |
| W25 | 18 53 | 13 29 | 4 25 | 14 52 | 3 17 | 9 31 | 1 22 | 11 15 | 0 44 | 5 49 | 1 25 | 2 46 | 2 15 | 6 17 | 0 44 | 18 56 | 0 6 | 19 49 | 3 37 | 12 31 | 12 6 | 26 50 | 1 2 | 4 1 |
| T 26 | 18 37 | 18 44 | 4 58 | 15 1 | 3 26 | 9 1 | 1 20 | 11 29 | 0 45 | 5 49 | 1 25 | 2 44 | 2 15 | 6 16 | 0 44 | 18 55 | 0 6 | 19 49 | 3 37 | 12 31 | 12 7 | 26 49 | 1 1 | 4 1 |
| F 27 | 18 22 | 23 10 | 5 14 | 15 13 | 3 33 | 8 32 | 1 18 | 11 42 | 0 46 | 5 49 | 1 26 | 2 42 | 2 15 | 6 15 | 0 44 | 18 55 | 0 6 | 19 49 | 3 37 | 12 31 | 12 8 | 26 48 | 1 0 | 4 0 |
| S 28 | 18 6 | 26 22 | 5 12 | 15 26 | 3 37 | 8 2 | 1 16 | 11 56 | 0 46 | 5 49 | 1 26 | 2 39 | 2 14 | 6 14 | 0 44 | 18 54 | 0 6 | 19 50 | 3 37 | 12 32 | 12 10 | 26 47 | 0 59 | 4 0 |
| S 29 | 17 50 | 27 56 | 4 51 | 15 41 | 3 39 | 7 32 | 1 14 | 12 10 | 0 47 | 5 49 | 1 26 | 2 37 | 2 14 | 6 13 | 0 44 | 18 54 | 0 6 | 19 50 | 3 36 | 12 32 | 12 11 | 26 46 | 0 58 | 4 0 |
| M30 | 17 34 | 27 33 | 4 10 | 15 57 | 3 39 | 7 1 | 1 12 | 12 23 | 0 48 | 5 49 | 1 26 | 2 34 | 2 14 | 6 11 | 0 44 | 18 53 | 0 6 | 19 50 | 3 36 | 12 33 | 12 12 | 26 44 | 0 57 | 4 0 |
| T 31 | 17s17 | 25n 9 | 3n11 | 16s14 | 3n36 | 6s31 | 1s10 | 12n37 | 0n49 | 5s49 | 1n27 | 2s32 | 2s14 | 6s10 | 0s44 | 18s53 | 0n 6 | 19n50 | 3s36 | 12s34 | 12s13 | 26s43 | 0s56 | 4n 0 |

Julian Day Number = 2332111.5, Delta T = 27.84 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'33, Lahiri = 19°17'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## FEBRUARY 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 46 50 | 12♒49'04 | 4♌59 | 1°R 5 | 17♓27 | 1♉38 | 18°R12 | 28♓53 | 16♓10 | 5♒24 | 3°R32 | 26°R53 | 27♒53 | 11♑30 | 18♓26 | W 1 |
| T 2 | 8 50 46 | 13°49'50 | 19°58 | 0♒17 | 18°40 | 2°14 | 18♎12 | 28°59 | 16°13 | 5°26 | 3♋31 | 26°D53 | 27°50 | 11°37 | 18°29 | T 2 |
| F 3 | 8 54 43 | 14°50'35 | 4♍42 | 29♑36 | 19°52 | 2°51 | 18°12 | 29° 5 | 16°16 | 5°28 | 3°30 | 26♒53 | 27°47 | 11°44 | 18°33 | F 3 |
| S 4 | 8 58 40 | 15°51'18 | 19° 6 | 29° 3 | 21° 5 | 3°27 | 18°11 | 29°11 | 16°19 | 5°30 | 3°29 | 26°53 | 27°43 | 11°50 | 18°36 | S 4 |
| S 5 | 9 2 36 | 16°52'00 | 3♎ 4 | 28°39 | 22°18 | 4° 4 | 18°11 | 29°17 | 16°22 | 5°33 | 3°28 | 26°54 | 27°40 | 11°57 | 18°39 | S 5 |
| M 6 | 9 6 33 | 17°52'41 | 16°35 | 28°22 | 23°31 | 4°41 | 18°10 | 29°24 | 16°25 | 5°35 | 3°27 | 26°55 | 27°37 | 12° 4 | 18°43 | M 6 |
| T 7 | 9 10 29 | 18°53'21 | 29°40 | 28°14 | 24°43 | 5°17 | 18° 9 | 29°30 | 16°28 | 5°37 | 3°27 | 26°56 | 27°34 | 12°10 | 18°46 | T 7 |
| W 8 | 9 14 26 | 19°54'00 | 12♏22 | 28°D13 | 25°56 | 5°54 | 18° 8 | 29°36 | 16°31 | 5°39 | 3°26 | 26°56 | 27°31 | 12°17 | 18°49 | W 8 |
| T 9 | 9 18 22 | 20°54'38 | 24°45 | 28°19 | 27° 9 | 6°31 | 18° 6 | 29°43 | 16°34 | 5°41 | 3°25 | 26°R56 | 27°27 | 12°24 | 18°53 | T 9 |
| F 10 | 9 22 19 | 21°55'14 | 6♐52 | 28°31 | 28°21 | 7° 8 | 18° 5 | 29°49 | 16°37 | 5°44 | 3°24 | 26°56 | 27°24 | 12°30 | 18°56 | F 10 |
| S 11 | 9 26 15 | 22°55'49 | 18°49 | 28°50 | 29°33 | 7°44 | 18° 3 | 29°55 | 16°41 | 5°46 | 3°23 | 26°56 | 27°21 | 12°37 | 18°59 | S 11 |
| S 12 | 9 30 12 | 23°56'23 | 0♑40 | 29°14 | 0♈46 | 8°21 | 18° 1 | 0♈ 2 | 16°44 | 5°48 | 3°23 | 26°55 | 27°18 | 12°44 | 19° 3 | S 12 |
| M13 | 9 34 9 | 24°56'56 | 12°29 | 29°44 | 1°58 | 8°58 | 17°59 | 0° 9 | 16°47 | 5°50 | 3°22 | 26°55 | 27°15 | 12°50 | 19° 6 | M13 |
| T 14 | 9 38 5 | 25°57'27 | 24°19 | 0♒18 | 3°10 | 9°35 | 17°56 | 0°15 | 16°50 | 5°52 | 3°21 | 26°55 | 27°12 | 12°57 | 19°10 | T 14 |
| W15 | 9 42 2 | 26°57'57 | 6♒14 | 0°57 | 4°22 | 10°12 | 17°54 | 0°22 | 16°54 | 5°55 | 3°21 | 26°D55 | 27° 8 | 13° 4 | 19°13 | W15 |
| T 16 | 9 45 58 | 27°58'25 | 18°16 | 1°41 | 5°34 | 10°49 | 17°51 | 0°29 | 16°57 | 5°57 | 3°20 | 26°55 | 27° 5 | 13°10 | 19°17 | T 16 |
| F 17 | 9 49 55 | 28°58'52 | 0♓27 | 2°27 | 6°46 | 11°26 | 17°48 | 0°35 | 17° 0 | 5°59 | 3°19 | 26°R55 | 27° 2 | 13°17 | 19°20 | F 17 |
| S 18 | 9 53 51 | 29°59'17 | 12°49 | 3°18 | 7°57 | 12° 3 | 17°45 | 0°42 | 17° 4 | 6° 1 | 3°19 | 26°55 | 26°59 | 13°24 | 19°24 | S 18 |
| S 19 | 9 57 48 | 0♓59'40 | 25°22 | 4°12 | 9° 9 | 12°41 | 17°42 | 0°49 | 17° 7 | 6° 3 | 3°18 | 26°54 | 26°56 | 13°30 | 19°28 | S 19 |
| M20 | 10 1 44 | 2° 0'01 | 8♈ 8 | 5° 8 | 10°20 | 13°18 | 17°38 | 0°56 | 17°10 | 6° 5 | 3°18 | 26°54 | 26°53 | 13°37 | 19°31 | M20 |
| T 21 | 10 5 41 | 3° 0'21 | 21° 8 | 6° 8 | 11°32 | 13°55 | 17°35 | 1° 3 | 17°14 | 6° 7 | 3°17 | 26°53 | 26°49 | 13°44 | 19°35 | T 21 |
| W22 | 10 9 38 | 4° 0'38 | 4♉22 | 7°10 | 12°43 | 14°32 | 17°31 | 1°10 | 17°17 | 6° 9 | 3°17 | 26°52 | 26°46 | 13°51 | 19°38 | W22 |
| T 23 | 10 13 34 | 5° 0'54 | 17°52 | 8°15 | 13°55 | 15° 9 | 17°27 | 1°17 | 17°20 | 6°12 | 3°16 | 26°52 | 26°43 | 13°57 | 19°42 | T 23 |
| F 24 | 10 17 31 | 6° 1'07 | 1♊36 | 9°21 | 15° 6 | 15°46 | 17°23 | 1°24 | 17°24 | 6°14 | 3°16 | 26°D51 | 26°40 | 14° 4 | 19°46 | F 24 |
| S 25 | 10 21 27 | 7° 1'19 | 15°37 | 10°30 | 16°17 | 16°24 | 17°18 | 1°31 | 17°27 | 6°16 | 3°15 | 26°51 | 26°37 | 14°11 | 19°49 | S 25 |
| S 26 | 10 25 24 | 8° 1'28 | 29°51 | 11°41 | 17°28 | 17° 1 | 17°14 | 1°38 | 17°30 | 6°18 | 3°15 | 26°52 | 26°33 | 14°17 | 19°53 | S 26 |
| M27 | 10 29 20 | 9° 1'35 | 14♋18 | 12°54 | 18°38 | 17°38 | 17° 9 | 1°45 | 17°34 | 6°20 | 3°14 | 26°53 | 26°30 | 14°24 | 19°57 | M27 |
| T 28 | 10 33 17 | 10♓ 1'40 | 28♋54 | 14♒ 9 | 19♈49 | 18♉16 | 17♎ 5 | 1♈52 | 17♓37 | 6♒22 | 3♋14 | 26♒54 | 26♒27 | 14♑31 | 20♓ 0 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s 0 | 20n58 | 1n58 | 16s30 | 3n32 | 6s 0 | 1s 7 | 12n50 | 0n49 | 5s49 | 1n27 | 2s29 | 2s14 | 6s 9 | 0s44 | 18s52 | 0n 6 | 19n50 | 3s36 | 12s34 | 12s14 | 26s42 | 0s55 | 3n59 |
| T 2 | 16 42 | 15 27 | 0 38 | 16 47 | 3 26 | 5 29 | 1 5 | 13 3 | 0 50 | 5 48 | 1 27 | 2 27 | 2 14 | 6 8 | 0 44 | 18 51 | 0 6 | 19 50 | 3 36 | 12 35 | 12 15 | 26 41 | 0 54 | 3 59 |
| F 3 | 16 25 | 9 8 | 0s43 | 17 3 | 3 18 | 4 59 | 1 3 | 13 17 | 0 51 | 5 48 | 1 27 | 2 24 | 2 14 | 6 7 | 0 44 | 18 51 | 0 6 | 19 50 | 3 36 | 12 35 | 12 16 | 26 40 | 0 52 | 3 59 |
| S 4 | 16 7 | 2 29 | 2 0 | 17 18 | 3 9 | 4 27 | 1 0 | 13 30 | 0 51 | 5 48 | 1 28 | 2 22 | 2 13 | 6 5 | 0 44 | 18 50 | 0 5 | 19 51 | 3 36 | 12 34 | 12 17 | 26 38 | 0 51 | 3 59 |
| S 5 | 15 49 | 4s 5 | 3 7 | 17 33 | 2 59 | 3 56 | 0 57 | 13 43 | 0 52 | 5 47 | 1 28 | 2 19 | 2 13 | 6 4 | 0 44 | 18 50 | 0 5 | 19 51 | 3 36 | 12 34 | 12 18 | 26 37 | 0 50 | 3 59 |
| M 6 | 15 30 | 10 15 | 4 2 | 17 47 | 2 48 | 3 25 | 0 55 | 13 56 | 0 53 | 5 47 | 1 28 | 2 17 | 2 13 | 6 3 | 0 44 | 18 49 | 0 5 | 19 51 | 3 36 | 12 34 | 12 19 | 26 36 | 0 49 | 3 58 |
| T 7 | 15 11 | 15 46 | 4 42 | 18 0 | 2 36 | 2 54 | 0 52 | 14 9 | 0 53 | 5 46 | 1 28 | 2 14 | 2 13 | 6 2 | 0 44 | 18 49 | 0 5 | 19 51 | 3 35 | 12 33 | 12 20 | 26 35 | 0 48 | 3 58 |
| W 8 | 14 52 | 20 27 | 5 7 | 18 12 | 2 25 | 2 22 | 0 49 | 14 22 | 0 54 | 5 45 | 1 29 | 2 11 | 2 13 | 6 0 | 0 44 | 18 48 | 0 5 | 19 51 | 3 35 | 12 33 | 12 22 | 26 33 | 0 47 | 3 58 |
| T 9 | 14 33 | 24 7 | 5 17 | 18 22 | 2 13 | 1 51 | 0 46 | 14 35 | 0 55 | 5 45 | 1 29 | 2 9 | 2 13 | 5 59 | 0 44 | 18 48 | 0 5 | 19 51 | 3 35 | 12 33 | 12 23 | 26 32 | 0 46 | 3 58 |
| F 10 | 14 14 | 26 38 | 5 13 | 18 32 | 2 0 | 1 19 | 0 43 | 14 47 | 0 55 | 5 44 | 1 29 | 2 6 | 2 13 | 5 58 | 0 44 | 18 47 | 0 5 | 19 51 | 3 35 | 12 33 | 12 24 | 26 31 | 0 44 | 3 58 |
| S 11 | 13 54 | 27 54 | 4 55 | 18 40 | 1 48 | 0 48 | 0 40 | 15 0 | 0 56 | 5 43 | 1 29 | 2 3 | 2 13 | 5 57 | 0 44 | 18 47 | 0 5 | 19 52 | 3 35 | 12 34 | 12 25 | 26 30 | 0 43 | 3 58 |
| S 12 | 13 34 | 27 53 | 4 24 | 18 47 | 1 36 | 0 16 | 0 37 | 15 12 | 0 56 | 5 42 | 1 30 | 2 1 | 2 13 | 5 55 | 0 44 | 18 46 | 0 5 | 19 52 | 3 35 | 12 34 | 12 26 | 26 28 | 0 42 | 3 57 |
| M13 | 13 14 | 26 35 | 3 43 | 18 53 | 1 24 | 0n15 | 0 34 | 15 25 | 0 57 | 5 41 | 1 30 | 1 58 | 2 12 | 5 54 | 0 44 | 18 46 | 0 5 | 19 52 | 3 35 | 12 34 | 12 27 | 26 27 | 0 41 | 3 57 |
| T 14 | 12 53 | 24 6 | 2 51 | 18 57 | 1 12 | 0 47 | 0 31 | 15 37 | 0 58 | 5 40 | 1 30 | 1 55 | 2 12 | 5 53 | 0 44 | 18 45 | 0 5 | 19 52 | 3 35 | 12 34 | 12 28 | 26 26 | 0 40 | 3 57 |
| W15 | 12 33 | 20 34 | 1 52 | 19 1 | 1 0 | 1 19 | 0 28 | 15 50 | 0 58 | 5 38 | 1 30 | 1 53 | 2 12 | 5 52 | 0 44 | 18 45 | 0 5 | 19 52 | 3 34 | 12 34 | 12 29 | 26 24 | 0 38 | 3 57 |
| T 16 | 12 12 | 16 8 | 0 48 | 19 2 | 0 48 | 1 50 | 0 25 | 16 2 | 0 59 | 5 37 | 1 31 | 1 50 | 2 12 | 5 50 | 0 44 | 18 44 | 0 5 | 19 52 | 3 34 | 12 34 | 12 30 | 26 23 | 0 37 | 3 57 |
| F 17 | 11 51 | 11 2 | 0n20 | 19 3 | 0 37 | 2 22 | 0 21 | 16 14 | 0 59 | 5 36 | 1 31 | 1 47 | 2 12 | 5 49 | 0 44 | 18 44 | 0 5 | 19 52 | 3 34 | 12 34 | 12 31 | 26 22 | 0 36 | 3 57 |
| S 18 | 11 30 | 5 25 | 1 27 | 19 2 | 0 26 | 2 53 | 0 18 | 16 26 | 1 0 | 5 34 | 1 31 | 1 44 | 2 12 | 5 48 | 0 44 | 18 43 | 0 5 | 19 53 | 3 34 | 12 34 | 12 32 | 26 21 | 0 35 | 3 57 |
| S 19 | 11 8 | 0n29 | 2 32 | 19 0 | 0 15 | 3 25 | 0 14 | 16 38 | 1 0 | 5 33 | 1 31 | 1 41 | 2 12 | 5 46 | 0 44 | 18 42 | 0 5 | 19 53 | 3 34 | 12 34 | 12 34 | 26 19 | 0 33 | 3 56 |
| M20 | 10 47 | 6 26 | 3 29 | 18 57 | 0 4 | 3 56 | 0 11 | 16 49 | 1 1 | 5 32 | 1 32 | 1 39 | 2 12 | 5 45 | 0 44 | 18 42 | 0 5 | 19 53 | 3 34 | 12 34 | 12 35 | 26 18 | 0 32 | 3 56 |
| T 21 | 10 25 | 12 14 | 4 18 | 18 52 | 0s 6 | 4 27 | 0 7 | 17 1 | 1 1 | 5 30 | 1 32 | 1 36 | 2 12 | 5 44 | 0 44 | 18 41 | 0 5 | 19 53 | 3 34 | 12 34 | 12 36 | 26 17 | 0 31 | 3 56 |
| W22 | 10 3 | 17 36 | 4 53 | 18 46 | 0 15 | 4 59 | 0 4 | 17 13 | 1 2 | 5 28 | 1 32 | 1 33 | 2 12 | 5 42 | 0 44 | 18 41 | 0 5 | 19 53 | 3 34 | 12 35 | 12 37 | 26 15 | 0 29 | 3 56 |
| T 23 | 9 41 | 22 11 | 5 13 | 18 38 | 0 25 | 5 30 | 0 0 | 17 24 | 1 2 | 5 27 | 1 32 | 1 30 | 2 12 | 5 41 | 0 44 | 18 40 | 0 5 | 19 53 | 3 33 | 12 35 | 12 38 | 26 14 | 0 28 | 3 56 |
| F 24 | 9 19 | 25 40 | 5 16 | 18 30 | 0 34 | 6 1 | 0n 3 | 17 35 | 1 3 | 5 25 | 1 32 | 1 27 | 2 11 | 5 40 | 0 44 | 18 40 | 0 5 | 19 53 | 3 33 | 12 35 | 12 39 | 26 12 | 0 27 | 3 56 |
| S 25 | 8 57 | 27 41 | 5 0 | 18 19 | 0 43 | 6 31 | 0 7 | 17 47 | 1 3 | 5 23 | 1 33 | 1 24 | 2 11 | 5 38 | 0 44 | 18 39 | 0 5 | 19 54 | 3 33 | 12 35 | 12 40 | 26 11 | 0 25 | 3 56 |
| S 26 | 8 35 | 27 55 | 4 26 | 18 8 | 0 51 | 7 2 | 0 11 | 17 58 | 1 3 | 5 21 | 1 33 | 1 21 | 2 11 | 5 37 | 0 44 | 18 39 | 0 5 | 19 54 | 3 33 | 12 35 | 12 41 | 26 10 | 0 24 | 3 56 |
| M27 | 8 12 | 26 16 | 3 35 | 17 55 | 0 59 | 7 33 | 0 15 | 18 9 | 1 4 | 5 19 | 1 33 | 1 19 | 2 11 | 5 36 | 0 44 | 18 38 | 0 5 | 19 54 | 3 33 | 12 35 | 12 42 | 26 8 | 0 23 | 3 56 |
| T 28 | 7s49 | 22n51 | 2n29 | 17s41 | 1s 7 | 8n 3 | 0n18 | 18n20 | 1n 4 | 5s17 | 1n33 | 1s16 | 2s11 | 5s34 | 0s44 | 18s38 | 0n 5 | 19n54 | 3s33 | 12s34 | 12s43 | 26s 7 | 0s21 | 3n55 |

Julian Day Number = 2332142.5, Delta T = 27.79 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'37, Lahiri = 19°17'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## MARCH 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 37 13 | 11♓ 1'43 | 13♌34 | 15♒26 | 21♈ 0 | 18♉53 | 17°R 0 | 1♈59 | 17♓41 | 6♒24 | 3°R13 | 26♒55 | 26♒24 | 14♑37 | 20♓ 4 | W 1 |
| T 2 | 10 41 10 | 12° 1'44 | 28°11 | 16°44 | 22°10 | 19°30 | 16♎55 | 2° 7 | 17°44 | 6°26 | 3♋13 | 26°R55 | 26°21 | 14°44 | 20° 8 | T 2 |
| F 3 | 10 45 7 | 13° 1'43 | 12♍40 | 18° 3 | 23°20 | 20° 8 | 16°49 | 2°14 | 17°48 | 6°27 | 3°13 | 26°54 | 26°18 | 14°51 | 20°11 | F 3 |
| S 4 | 10 49 3 | 14° 1'39 | 26°55 | 19°25 | 24°30 | 20°45 | 16°44 | 2°21 | 17°51 | 6°29 | 3°12 | 26°53 | 26°14 | 14°57 | 20°15 | S 4 |
| S 5 | 10 53 0 | 15° 1'34 | 10♎50 | 20°47 | 25°41 | 21°22 | 16°38 | 2°28 | 17°54 | 6°31 | 3°12 | 26°51 | 26°11 | 15° 4 | 20°19 | S 5 |
| M 6 | 10 56 56 | 16° 1'28 | 24°24 | 22°12 | 26°50 | 22° 0 | 16°33 | 2°36 | 17°58 | 6°33 | 3°12 | 26°48 | 26° 8 | 15°11 | 20°22 | M 6 |
| T 7 | 11 0 53 | 17° 1'19 | 7♏33 | 23°37 | 28° 0 | 22°37 | 16°27 | 2°43 | 18° 1 | 6°35 | 3°12 | 26°45 | 26° 5 | 15°17 | 20°26 | T 7 |
| W 8 | 11 4 49 | 18° 1'09 | 20°21 | 25° 4 | 29°10 | 23°14 | 16°21 | 2°50 | 18° 5 | 6°37 | 3°11 | 26°43 | 26° 2 | 15°24 | 20°30 | W 8 |
| T 9 | 11 8 46 | 19° 0'57 | 2♐48 | 26°32 | 0♉19 | 23°52 | 16°15 | 2°58 | 18° 8 | 6°39 | 3°11 | 26°41 | 25°59 | 15°31 | 20°34 | T 9 |
| F 10 | 11 12 42 | 20° 0'43 | 14°59 | 28° 2 | 1°29 | 24°29 | 16° 9 | 3° 5 | 18°12 | 6°40 | 3°11 | 26°D40 | 25°55 | 15°37 | 20°37 | F 10 |
| S 11 | 11 16 39 | 21° 0'28 | 26°57 | 29°33 | 2°38 | 25° 7 | 16° 3 | 3°13 | 18°15 | 6°42 | 3°11 | 26°40 | 25°52 | 15°44 | 20°41 | S 11 |
| S 12 | 11 20 36 | 22° 0'11 | 8♑49 | 1♓ 5 | 3°47 | 25°44 | 15°56 | 3°20 | 18°18 | 6°44 | 3°11 | 26°41 | 25°49 | 15°51 | 20°45 | S 12 |
| M13 | 11 24 32 | 22°59'52 | 20°38 | 2°39 | 4°56 | 26°21 | 15°50 | 3°27 | 18°22 | 6°46 | 3°11 | 26°42 | 25°46 | 15°57 | 20°49 | M13 |
| T 14 | 11 28 29 | 23°59'31 | 2♒30 | 4°14 | 6° 5 | 26°59 | 15°43 | 3°35 | 18°25 | 6°47 | 3°11 | 26°44 | 25°43 | 16° 4 | 20°52 | T 14 |
| W15 | 11 32 25 | 24°59'09 | 14°28 | 5°50 | 7°13 | 27°36 | 15°36 | 3°42 | 18°29 | 6°49 | 3°11 | 26°46 | 25°39 | 16°11 | 20°56 | W15 |
| T 16 | 11 36 22 | 25°58'44 | 26°37 | 7°27 | 8°22 | 28°14 | 15°30 | 3°50 | 18°32 | 6°51 | 3°11 | 26°R46 | 25°36 | 16°17 | 21° 0 | T 16 |
| F 17 | 11 40 18 | 26°58'18 | 9♓ 0 | 9° 6 | 9°30 | 28°51 | 15°23 | 3°57 | 18°36 | 6°52 | 3°D11 | 26°45 | 25°33 | 16°24 | 21° 3 | F 17 |
| S 18 | 11 44 15 | 27°57'50 | 21°38 | 10°46 | 10°38 | 29°29 | 15°16 | 4° 5 | 18°39 | 6°54 | 3°11 | 26°43 | 25°30 | 16°31 | 21° 7 | S 18 |
| S 19 | 11 48 11 | 28°57'19 | 4♈31 | 12°27 | 11°46 | 0♊ 6 | 15° 9 | 4°12 | 18°42 | 6°55 | 3°11 | 26°39 | 25°27 | 16°37 | 21°11 | S 19 |
| M20 | 11 52 8 | 29°56'47 | 17°41 | 14° 9 | 12°54 | 0°44 | 15° 1 | 4°20 | 18°46 | 6°57 | 3°11 | 26°34 | 25°24 | 16°44 | 21°15 | M20 |
| T 21 | 11 56 4 | 0♈56'12 | 1♉ 5 | 15°53 | 14° 1 | 1°21 | 14°54 | 4°27 | 18°49 | 6°59 | 3°11 | 26°29 | 25°20 | 16°51 | 21°18 | T 21 |
| W22 | 12 0 1 | 1°55'35 | 14°42 | 17°38 | 15° 9 | 1°59 | 14°47 | 4°35 | 18°52 | 7° 0 | 3°11 | 26°23 | 25°17 | 16°58 | 21°22 | W22 |
| T 23 | 12 3 58 | 2°54'57 | 28°30 | 19°25 | 16°16 | 2°36 | 14°39 | 4°42 | 18°56 | 7° 2 | 3°11 | 26°18 | 25°14 | 17° 4 | 21°26 | T 23 |
| F 24 | 12 7 54 | 3°54'15 | 12♊26 | 21°13 | 17°23 | 3°14 | 14°32 | 4°50 | 18°59 | 7° 3 | 3°11 | 26°15 | 25°11 | 17°11 | 21°29 | F 24 |
| S 25 | 12 11 51 | 4°53'32 | 26°29 | 23° 2 | 18°30 | 3°52 | 14°25 | 4°57 | 19° 3 | 7° 4 | 3°11 | 26°13 | 25° 8 | 17°18 | 21°33 | S 25 |
| S 26 | 12 15 47 | 5°52'46 | 10♋37 | 24°53 | 19°36 | 4°29 | 14°17 | 5° 5 | 19° 6 | 7° 6 | 3°12 | 26°D13 | 25° 4 | 17°24 | 21°37 | S 26 |
| M27 | 12 19 44 | 6°51'58 | 24°48 | 26°45 | 20°42 | 5° 7 | 14° 9 | 5°13 | 19° 9 | 7° 7 | 3°12 | 26°14 | 25° 1 | 17°31 | 21°40 | M27 |
| T 28 | 12 23 40 | 7°51'07 | 9♌ 1 | 28°38 | 21°49 | 5°44 | 14° 2 | 5°20 | 19°12 | 7° 9 | 3°12 | 26°15 | 24°58 | 17°38 | 21°44 | T 28 |
| W29 | 12 27 37 | 8°50'14 | 23°13 | 0♈33 | 22°54 | 6°22 | 13°54 | 5°28 | 19°16 | 7°10 | 3°12 | 26°R16 | 24°55 | 17°44 | 21°47 | W29 |
| T 30 | 12 31 34 | 9°49'19 | 7♍23 | 2°29 | 24° 0 | 6°59 | 13°47 | 5°35 | 19°19 | 7°11 | 3°13 | 26°15 | 24°52 | 17°51 | 21°51 | T 30 |
| F 31 | 12 35 30 | 10♈48'21 | 21♍26 | 4♈26 | 25♉ 6 | 7♊37 | 13♎39 | 5♈43 | 19♓22 | 7♒12 | 3♋13 | 26♒13 | 24♒49 | 17♑58 | 21♓55 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 7s27 | 17n57 | 1n13 | 17s25 | 1s14 | 8n33 | 0n22 | 18n30 | 1n 5 | 5s15 | 1n33 | 1s13 | 2s11 | 5s33 | 0s44 | 18s38 | 0n 5 | 19n54 | 3s33 | 12s34 | 12s44 | 26s 6 | 0s20 | 3n55 |
| T 2 | 7 4 | 12 1 | 0s 7 | 17 8 | 1 21 | 9 3 | 0 26 | 18 41 | 1 5 | 5 13 | 1 34 | 1 10 | 2 11 | 5 32 | 0 44 | 18 37 | 0 5 | 19 54 | 3 32 | 12 34 | 12 45 | 26 4 | 0 19 | 3 55 |
| F 3 | 6 41 | 5 29 | 1 26 | 16 50 | 1 28 | 9 33 | 0 30 | 18 52 | 1 6 | 5 11 | 1 34 | 1 7 | 2 11 | 5 30 | 0 44 | 18 37 | 0 5 | 19 54 | 3 32 | 12 34 | 12 47 | 26 3 | 0 17 | 3 55 |
| S 4 | 6 18 | 1s12 | 2 38 | 16 31 | 1 34 | 10 3 | 0 34 | 19 2 | 1 6 | 5 9 | 1 34 | 1 4 | 2 11 | 5 29 | 0 44 | 18 36 | 0 5 | 19 55 | 3 32 | 12 34 | 12 48 | 26 1 | 0 16 | 3 55 |
| S 5 | 5 55 | 7 40 | 3 39 | 16 10 | 1 40 | 10 32 | 0 38 | 19 12 | 1 6 | 5 6 | 1 34 | 1 1 | 2 11 | 5 28 | 0 44 | 18 36 | 0 5 | 19 55 | 3 32 | 12 35 | 12 49 | 26 0 | 0 15 | 3 55 |
| M 6 | 5 31 | 13 36 | 4 26 | 15 48 | 1 45 | 11 1 | 0 42 | 19 22 | 1 7 | 5 4 | 1 34 | 0 58 | 2 11 | 5 26 | 0 44 | 18 35 | 0 5 | 19 55 | 3 32 | 12 36 | 12 50 | 25 58 | 0 13 | 3 55 |
| T 7 | 5 8 | 18 45 | 4 58 | 15 24 | 1 50 | 11 30 | 0 46 | 19 32 | 1 7 | 5 2 | 1 34 | 0 55 | 2 11 | 5 25 | 0 44 | 18 35 | 0 5 | 19 55 | 3 32 | 12 37 | 12 51 | 25 57 | 0 12 | 3 55 |
| W 8 | 4 45 | 22 53 | 5 13 | 14 59 | 1 54 | 11 58 | 0 50 | 19 42 | 1 7 | 4 59 | 1 35 | 0 52 | 2 11 | 5 24 | 0 44 | 18 34 | 0 5 | 19 55 | 3 32 | 12 38 | 12 52 | 25 56 | 0 10 | 3 55 |
| T 9 | 4 21 | 25 53 | 5 13 | 14 33 | 1 59 | 12 27 | 0 54 | 19 52 | 1 8 | 4 57 | 1 35 | 0 49 | 2 11 | 5 22 | 0 44 | 18 34 | 0 5 | 19 55 | 3 32 | 12 39 | 12 53 | 25 54 | 0 9 | 3 55 |
| F 10 | 3 58 | 27 35 | 4 59 | 14 6 | 2 2 | 12 55 | 0 58 | 20 2 | 1 8 | 4 54 | 1 35 | 0 46 | 2 11 | 5 21 | 0 44 | 18 33 | 0 5 | 19 55 | 3 31 | 12 39 | 12 54 | 25 53 | 0 8 | 3 55 |
| S 11 | 3 34 | 27 59 | 4 32 | 13 37 | 2 6 | 13 23 | 1 2 | 20 11 | 1 8 | 4 52 | 1 35 | 0 43 | 2 11 | 5 20 | 0 44 | 18 33 | 0 5 | 19 56 | 3 31 | 12 39 | 12 55 | 25 51 | 0 6 | 3 55 |
| S 12 | 3 11 | 27 5 | 3 54 | 13 7 | 2 9 | 13 50 | 1 6 | 20 20 | 1 9 | 4 49 | 1 35 | 0 40 | 2 11 | 5 18 | 0 44 | 18 33 | 0 5 | 19 56 | 3 31 | 12 39 | 12 56 | 25 50 | 0 5 | 3 55 |
| M13 | 2 47 | 24 57 | 3 6 | 12 35 | 2 11 | 14 17 | 1 10 | 20 30 | 1 9 | 4 47 | 1 35 | 0 37 | 2 11 | 5 17 | 0 44 | 18 32 | 0 5 | 19 56 | 3 31 | 12 38 | 12 57 | 25 48 | 0 3 | 3 54 |
| T 14 | 2 23 | 21 44 | 2 9 | 12 3 | 2 13 | 14 44 | 1 14 | 20 39 | 1 9 | 4 44 | 1 35 | 0 34 | 2 11 | 5 16 | 0 44 | 18 32 | 0 5 | 19 56 | 3 31 | 12 38 | 12 58 | 25 47 | 0 2 | 3 54 |
| W15 | 2 0 | 17 35 | 1 7 | 11 29 | 2 15 | 15 11 | 1 18 | 20 47 | 1 10 | 4 41 | 1 35 | 0 31 | 2 11 | 5 14 | 0 44 | 18 31 | 0 5 | 19 56 | 3 31 | 12 37 | 12 59 | 25 45 | 0 1 | 3 54 |
| T 16 | 1 36 | 12 41 | 0 1 | 10 54 | 2 16 | 15 37 | 1 22 | 20 56 | 1 10 | 4 38 | 1 36 | 0 28 | 2 11 | 5 13 | 0 44 | 18 31 | 0 5 | 19 56 | 3 31 | 12 37 | 13 1 | 25 44 | 0n 1 | 3 54 |
| F 17 | 1 12 | 7 11 | 1n 7 | 10 17 | 2 17 | 16 3 | 1 26 | 21 5 | 1 10 | 4 36 | 1 36 | 0 25 | 2 11 | 5 12 | 0 44 | 18 30 | 0 5 | 19 56 | 3 30 | 12 37 | 13 2 | 25 42 | 0 2 | 3 54 |
| S 18 | 0 49 | 1 18 | 2 12 | 9 40 | 2 17 | 16 28 | 1 30 | 21 13 | 1 10 | 4 33 | 1 36 | 0 22 | 2 11 | 5 10 | 0 44 | 18 30 | 0 5 | 19 57 | 3 30 | 12 38 | 13 3 | 25 41 | 0 4 | 3 54 |
| S 19 | 0 25 | 4n44 | 3 12 | 9 1 | 2 17 | 16 53 | 1 34 | 21 22 | 1 11 | 4 30 | 1 36 | 0 19 | 2 11 | 5 9 | 0 44 | 18 30 | 0 5 | 19 57 | 3 30 | 12 39 | 13 4 | 25 39 | 0 5 | 3 54 |
| M20 | 0 1 | 10 41 | 4 3 | 8 21 | 2 16 | 17 18 | 1 39 | 21 30 | 1 11 | 4 27 | 1 36 | 0 16 | 2 11 | 5 8 | 0 44 | 18 29 | 0 5 | 19 57 | 3 30 | 12 41 | 13 5 | 25 38 | 0 7 | 3 54 |
| T 21 | 0n22 | 16 16 | 4 41 | 7 39 | 2 15 | 17 42 | 1 43 | 21 38 | 1 11 | 4 24 | 1 36 | 0 13 | 2 11 | 5 6 | 0 44 | 18 29 | 0 5 | 19 57 | 3 30 | 12 43 | 13 6 | 25 36 | 0 8 | 3 54 |
| W22 | 0 46 | 21 7 | 5 5 | 6 57 | 2 14 | 18 6 | 1 47 | 21 46 | 1 11 | 4 21 | 1 36 | 0 10 | 2 11 | 5 5 | 0 44 | 18 29 | 0 5 | 19 57 | 3 30 | 12 45 | 13 7 | 25 35 | 0 9 | 3 54 |
| T 23 | 1 10 | 24 54 | 5 11 | 6 13 | 2 12 | 18 30 | 1 50 | 21 54 | 1 12 | 4 19 | 1 36 | 0 7 | 2 11 | 5 4 | 0 44 | 18 28 | 0 5 | 19 57 | 3 30 | 12 46 | 13 8 | 25 33 | 0 11 | 3 54 |
| F 24 | 1 33 | 27 16 | 4 59 | 5 28 | 2 9 | 18 53 | 1 54 | 22 1 | 1 12 | 4 16 | 1 36 | 0 4 | 2 11 | 5 2 | 0 44 | 18 28 | 0 5 | 19 57 | 3 29 | 12 48 | 13 9 | 25 31 | 0 12 | 3 54 |
| S 25 | 1 57 | 27 55 | 4 29 | 4 42 | 2 6 | 19 15 | 1 58 | 22 9 | 1 12 | 4 13 | 1 36 | 0 2 | 2 11 | 5 1 | 0 44 | 18 27 | 0 5 | 19 57 | 3 29 | 12 48 | 13 10 | 25 30 | 0 14 | 3 54 |
| S 26 | 2 20 | 26 45 | 3 43 | 3 55 | 2 2 | 19 38 | 2 2 | 22 16 | 1 12 | 4 10 | 1 36 | 0n 1 | 2 11 | 5 0 | 0 44 | 18 27 | 0 5 | 19 58 | 3 29 | 12 48 | 13 11 | 25 28 | 0 15 | 3 54 |
| M27 | 2 44 | 23 52 | 2 42 | 3 6 | 1 58 | 19 59 | 2 6 | 22 23 | 1 13 | 4 7 | 1 36 | 0 4 | 2 11 | 4 58 | 0 44 | 18 27 | 0 5 | 19 58 | 3 29 | 12 48 | 13 12 | 25 27 | 0 16 | 3 54 |
| T 28 | 3 7 | 19 31 | 1 32 | 2 17 | 1 54 | 20 21 | 2 10 | 22 30 | 1 13 | 4 4 | 1 36 | 0 7 | 2 11 | 4 57 | 0 44 | 18 26 | 0 5 | 19 58 | 3 29 | 12 47 | 13 13 | 25 25 | 0 18 | 3 54 |
| W29 | 3 31 | 14 4 | 0 16 | 1 27 | 1 49 | 20 41 | 2 14 | 22 37 | 1 13 | 4 1 | 1 36 | 0 10 | 2 11 | 4 56 | 0 44 | 18 26 | 0 5 | 19 58 | 3 29 | 12 47 | 13 14 | 25 24 | 0 19 | 3 54 |
| T 30 | 3 54 | 7 53 | 1s 0 | 0 35 | 1 43 | 21 2 | 2 18 | 22 43 | 1 13 | 3 58 | 1 36 | 0 13 | 2 11 | 4 55 | 0 44 | 18 26 | 0 5 | 19 58 | 3 29 | 12 47 | 13 16 | 25 22 | 0 21 | 3 54 |
| F 31 | 4n17 | 1n23 | 2s12 | 0n17 | 1s37 | 21n22 | 2n21 | 22n50 | 1n13 | 3s55 | 1n36 | 0n16 | 2s11 | 4s53 | 0s44 | 18s25 | 0n 5 | 19n58 | 3s28 | 12s48 | 13s17 | 25s20 | 0n22 | 3n54 |

Julian Day Number = 2332170.5, Delta T = 27.74 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'41, Lahiri = 19°17'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## APRIL 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 39 27 | 11♈47'21 | 5♎19 | 6♈25 | 26♉11 | 8♊14 | 13°R31 | 5♈50 | 19♓26 | 7♒14 | 3♋13 | 26°R 8 | 24♒45 | 18♑ 4 | 21♓58 | S 1 |
| S 2 | 12 43 23 | 12°46'19 | 18°59 | 8°25 | 27°16 | 8°52 | 13♎23 | 5°58 | 19°29 | 7°15 | 3°14 | 26♒ 2 | 24°42 | 18°11 | 22° 2 | S 2 |
| M 3 | 12 47 20 | 13°45'15 | 2♏21 | 10°26 | 28°20 | 9°29 | 13°16 | 6° 5 | 19°32 | 7°16 | 3°14 | 25°54 | 24°39 | 18°18 | 22° 5 | M 3 |
| T 4 | 12 51 16 | 14°44'10 | 15°26 | 12°28 | 29°25 | 10° 7 | 13° 8 | 6°13 | 19°35 | 7°17 | 3°15 | 25°45 | 24°36 | 18°24 | 22° 9 | T 4 |
| W 5 | 12 55 13 | 15°43'02 | 28°11 | 14°32 | 0♊29 | 10°45 | 13° 0 | 6°20 | 19°38 | 7°18 | 3°15 | 25°37 | 24°33 | 18°31 | 22°12 | W 5 |
| T 6 | 12 59 9 | 16°41'53 | 10♐38 | 16°36 | 1°33 | 11°22 | 12°53 | 6°28 | 19°41 | 7°19 | 3°15 | 25°30 | 24°30 | 18°38 | 22°16 | T 6 |
| F 7 | 13 3 6 | 17°40'42 | 22°49 | 18°42 | 2°36 | 12° 0 | 12°45 | 6°35 | 19°45 | 7°20 | 3°16 | 25°25 | 24°26 | 18°44 | 22°19 | F 7 |
| S 8 | 13 7 2 | 18°39'29 | 4♑49 | 20°47 | 3°40 | 12°37 | 12°37 | 6°42 | 19°48 | 7°22 | 3°16 | 25°21 | 24°23 | 18°51 | 22°23 | S 8 |
| S 9 | 13 10 59 | 19°38'14 | 16°41 | 22°54 | 4°43 | 13°15 | 12°30 | 6°50 | 19°51 | 7°23 | 3°17 | 25°D20 | 24°20 | 18°58 | 22°26 | S 9 |
| M10 | 13 14 56 | 20°36'58 | 28°31 | 25° 1 | 5°45 | 13°52 | 12°22 | 6°57 | 19°54 | 7°23 | 3°18 | 25°20 | 24°17 | 19° 4 | 22°29 | M10 |
| T 11 | 13 18 52 | 21°35'39 | 10♒23 | 27° 7 | 6°48 | 14°30 | 12°15 | 7° 5 | 19°57 | 7°24 | 3°18 | 25°21 | 24°14 | 19°11 | 22°33 | T 11 |
| W12 | 13 22 49 | 22°34'19 | 22°23 | 29°13 | 7°50 | 15° 7 | 12° 7 | 7°12 | 20° 0 | 7°25 | 3°19 | 25°R22 | 24°10 | 19°18 | 22°36 | W12 |
| T 13 | 13 26 45 | 23°32'58 | 4♓37 | 1♉19 | 8°51 | 15°45 | 12° 0 | 7°19 | 20° 3 | 7°26 | 3°19 | 25°22 | 24° 7 | 19°24 | 22°39 | T 13 |
| F 14 | 13 30 42 | 24°31'34 | 17° 7 | 3°24 | 9°53 | 16°23 | 11°52 | 7°27 | 20° 6 | 7°27 | 3°20 | 25°19 | 24° 4 | 19°31 | 22°43 | F 14 |
| S 15 | 13 34 38 | 25°30'09 | 29°57 | 5°28 | 10°54 | 17° 0 | 11°45 | 7°34 | 20° 9 | 7°28 | 3°21 | 25°15 | 24° 1 | 19°38 | 22°46 | S 15 |
| S 16 | 13 38 35 | 26°28'42 | 13♈ 8 | 7°30 | 11°54 | 17°38 | 11°38 | 7°41 | 20°12 | 7°29 | 3°21 | 25° 8 | 23°58 | 19°44 | 22°49 | S 16 |
| M17 | 13 42 31 | 27°27'13 | 26°40 | 9°30 | 12°55 | 18°15 | 11°30 | 7°48 | 20°15 | 7°29 | 3°22 | 24°59 | 23°55 | 19°51 | 22°52 | M17 |
| T 18 | 13 46 28 | 28°25'42 | 10♉30 | 11°29 | 13°55 | 18°53 | 11°23 | 7°56 | 20°18 | 7°30 | 3°23 | 24°48 | 23°51 | 19°58 | 22°56 | T 18 |
| W19 | 13 50 25 | 29°24'10 | 24°34 | 13°24 | 14°54 | 19°30 | 11°16 | 8° 3 | 20°21 | 7°31 | 3°23 | 24°38 | 23°48 | 20° 4 | 22°59 | W19 |
| T 20 | 13 54 21 | 0♉22'35 | 8♊48 | 15°17 | 15°53 | 20° 8 | 11° 9 | 8°10 | 20°23 | 7°31 | 3°24 | 24°29 | 23°45 | 20°11 | 23° 2 | T 20 |
| F 21 | 13 58 18 | 1°20'59 | 23° 6 | 17° 7 | 16°52 | 20°45 | 11° 2 | 8°17 | 20°26 | 7°32 | 3°25 | 24°21 | 23°42 | 20°18 | 23° 5 | F 21 |
| S 22 | 14 2 14 | 2°19'20 | 7♋24 | 18°54 | 17°50 | 21°23 | 10°55 | 8°24 | 20°29 | 7°33 | 3°26 | 24°17 | 23°39 | 20°24 | 23° 8 | S 22 |
| S 23 | 14 6 11 | 3°17'39 | 21°38 | 20°37 | 18°48 | 22° 1 | 10°49 | 8°31 | 20°32 | 7°33 | 3°27 | 24°15 | 23°36 | 20°31 | 23°11 | S 23 |
| M24 | 14 10 7 | 4°15'56 | 5♌46 | 22°17 | 19°45 | 22°38 | 10°42 | 8°39 | 20°34 | 7°34 | 3°27 | 24°D14 | 23°32 | 20°38 | 23°14 | M24 |
| T 25 | 14 14 4 | 5°14'11 | 19°48 | 23°53 | 20°42 | 23°16 | 10°36 | 8°46 | 20°37 | 7°34 | 3°28 | 24°R14 | 23°29 | 20°44 | 23°17 | T 25 |
| W26 | 14 18 0 | 6°12'24 | 3♍42 | 25°25 | 21°38 | 23°53 | 10°29 | 8°53 | 20°40 | 7°35 | 3°29 | 24°14 | 23°26 | 20°51 | 23°20 | W26 |
| T 27 | 14 21 57 | 7°10'34 | 17°28 | 26°53 | 22°34 | 24°31 | 10°23 | 9° 0 | 20°42 | 7°35 | 3°30 | 24°12 | 23°23 | 20°58 | 23°23 | T 27 |
| F 28 | 14 25 54 | 8° 8'43 | 1♎ 5 | 28°17 | 23°29 | 25° 8 | 10°17 | 9° 6 | 20°45 | 7°35 | 3°31 | 24° 8 | 23°20 | 21° 4 | 23°26 | F 28 |
| S 29 | 14 29 50 | 9° 6'50 | 14°33 | 29°36 | 24°24 | 25°46 | 10°11 | 9°13 | 20°47 | 7°36 | 3°32 | 24° 1 | 23°16 | 21°11 | 23°29 | S 29 |
| S 30 | 14 33 47 | 10♉ 4'55 | 27♎50 | 0♊52 | 25♊18 | 26♊23 | 10♎ 5 | 9♈20 | 20♓50 | 7♒36 | 3♋33 | 23♒51 | 23♒13 | 21♑18 | 23♓31 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n40 | 5s 6 | 3s15 | 1n10 | 1s30 | 21n41 | 2n25 | 22n56 | 1n14 | 3s52 | 1n37 | 0n19 | 2s11 | 4s52 | 0s44 | 18s25 | 0n 5 | 19n58 | 3s28 | 12s50 | 13s18 | 25s19 | 0n24 | 3n54 |
| S 2 | 5 3 | 11 14 | 4 6 | 2 4 | 1 23 | 22 0 | 2 29 | 23 2 | 1 14 | 3 49 | 1 37 | 0 22 | 2 11 | 4 51 | 0 44 | 18 25 | 0 5 | 19 59 | 3 28 | 12 52 | 13 19 | 25 17 | 0 25 | 3 54 |
| M 3 | 5 26 | 16 43 | 4 42 | 2 59 | 1 15 | 22 18 | 2 32 | 23 8 | 1 14 | 3 46 | 1 36 | 0 25 | 2 11 | 4 50 | 0 44 | 18 25 | 0 5 | 19 59 | 3 28 | 12 55 | 13 20 | 25 16 | 0 26 | 3 54 |
| T 4 | 5 49 | 21 18 | 5 2 | 3 54 | 1 7 | 22 36 | 2 36 | 23 14 | 1 14 | 3 43 | 1 36 | 0 28 | 2 11 | 4 48 | 0 44 | 18 24 | 0 5 | 19 59 | 3 28 | 12 58 | 13 21 | 25 14 | 0 28 | 3 54 |
| W 5 | 6 12 | 24 46 | 5 7 | 4 50 | 0 59 | 22 53 | 2 39 | 23 19 | 1 14 | 3 40 | 1 36 | 0 31 | 2 11 | 4 47 | 0 44 | 18 24 | 0 5 | 19 59 | 3 28 | 13 0 | 13 22 | 25 12 | 0 29 | 3 54 |
| T 6 | 6 34 | 26 58 | 4 57 | 5 47 | 0 50 | 23 10 | 2 43 | 23 25 | 1 14 | 3 37 | 1 36 | 0 34 | 2 11 | 4 46 | 0 44 | 18 24 | 0 5 | 19 59 | 3 28 | 13 3 | 13 23 | 25 11 | 0 31 | 3 54 |
| F 7 | 6 57 | 27 50 | 4 33 | 6 43 | 0 40 | 23 26 | 2 46 | 23 30 | 1 15 | 3 34 | 1 36 | 0 37 | 2 11 | 4 45 | 0 44 | 18 23 | 0 5 | 19 59 | 3 28 | 13 4 | 13 24 | 25 9 | 0 32 | 3 54 |
| S 8 | 7 19 | 27 21 | 3 58 | 7 40 | 0 30 | 23 41 | 2 49 | 23 35 | 1 15 | 3 31 | 1 36 | 0 40 | 2 11 | 4 43 | 0 44 | 18 23 | 0 5 | 19 59 | 3 27 | 13 6 | 13 25 | 25 7 | 0 33 | 3 54 |
| S 9 | 7 42 | 25 37 | 3 12 | 8 37 | 0 20 | 23 57 | 2 52 | 23 40 | 1 15 | 3 28 | 1 36 | 0 42 | 2 11 | 4 42 | 0 44 | 18 23 | 0 5 | 19 59 | 3 27 | 13 6 | 13 26 | 25 6 | 0 35 | 3 54 |
| M10 | 8 4 | 22 46 | 2 19 | 9 33 | 0 10 | 24 11 | 2 56 | 23 45 | 1 15 | 3 25 | 1 36 | 0 45 | 2 11 | 4 41 | 0 44 | 18 23 | 0 5 | 19 59 | 3 27 | 13 6 | 13 27 | 25 4 | 0 36 | 3 54 |
| T 11 | 8 26 | 18 57 | 1 20 | 10 29 | 0n 1 | 24 25 | 2 59 | 23 50 | 1 15 | 3 22 | 1 36 | 0 48 | 2 11 | 4 40 | 0 44 | 18 23 | 0 5 | 20 0 | 3 27 | 13 6 | 13 28 | 25 2 | 0 37 | 3 54 |
| W12 | 8 48 | 14 20 | 0 16 | 11 24 | 0 12 | 24 38 | 3 2 | 23 54 | 1 15 | 3 19 | 1 36 | 0 51 | 2 11 | 4 39 | 0 44 | 18 22 | 0 5 | 20 0 | 3 27 | 13 5 | 13 29 | 25 1 | 0 39 | 3 54 |
| T 13 | 9 10 | 9 4 | 0n49 | 12 19 | 0 23 | 24 51 | 3 4 | 23 58 | 1 15 | 3 17 | 1 36 | 0 54 | 2 12 | 4 38 | 0 44 | 18 22 | 0 5 | 20 0 | 3 27 | 13 5 | 13 30 | 24 59 | 0 40 | 3 54 |
| F 14 | 9 31 | 3 21 | 1 54 | 13 12 | 0 34 | 25 4 | 3 7 | 24 2 | 1 16 | 3 14 | 1 36 | 0 57 | 2 12 | 4 36 | 0 44 | 18 22 | 0 5 | 20 0 | 3 27 | 13 6 | 13 31 | 24 57 | 0 41 | 3 54 |
| S 15 | 9 53 | 2n38 | 2 54 | 14 4 | 0 45 | 25 15 | 3 10 | 24 6 | 1 16 | 3 11 | 1 36 | 0 59 | 2 12 | 4 35 | 0 44 | 18 22 | 0 5 | 20 0 | 3 26 | 13 8 | 13 32 | 24 56 | 0 43 | 3 55 |
| S 16 | 10 14 | 8 40 | 3 46 | 14 55 | 0 56 | 25 26 | 3 13 | 24 10 | 1 16 | 3 8 | 1 36 | 1 2 | 2 12 | 4 34 | 0 44 | 18 21 | 0 5 | 20 0 | 3 26 | 13 10 | 13 34 | 24 54 | 0 44 | 3 55 |
| M17 | 10 35 | 14 27 | 4 27 | 15 44 | 1 6 | 25 37 | 3 15 | 24 13 | 1 16 | 3 5 | 1 36 | 1 5 | 2 12 | 4 33 | 0 44 | 18 21 | 0 5 | 20 0 | 3 26 | 13 13 | 13 35 | 24 52 | 0 45 | 3 55 |
| T 18 | 10 56 | 19 39 | 4 54 | 16 31 | 1 17 | 25 47 | 3 18 | 24 17 | 1 16 | 3 3 | 1 36 | 1 8 | 2 12 | 4 32 | 0 44 | 18 21 | 0 5 | 20 0 | 3 26 | 13 17 | 13 36 | 24 50 | 0 47 | 3 55 |
| W19 | 11 17 | 23 51 | 5 3 | 17 16 | 1 27 | 25 56 | 3 20 | 24 20 | 1 16 | 3 0 | 1 35 | 1 11 | 2 12 | 4 31 | 0 44 | 18 21 | 0 5 | 20 1 | 3 26 | 13 20 | 13 37 | 24 49 | 0 48 | 3 55 |
| T 20 | 11 38 | 26 39 | 4 54 | 17 59 | 1 36 | 26 5 | 3 22 | 24 23 | 1 16 | 2 57 | 1 35 | 1 13 | 2 12 | 4 30 | 0 44 | 18 21 | 0 5 | 20 1 | 3 26 | 13 23 | 13 38 | 24 47 | 0 49 | 3 55 |
| F 21 | 11 58 | 27 44 | 4 26 | 18 40 | 1 45 | 26 13 | 3 24 | 24 26 | 1 16 | 2 55 | 1 35 | 1 16 | 2 12 | 4 29 | 0 44 | 18 21 | 0 5 | 20 1 | 3 26 | 13 26 | 13 39 | 24 45 | 0 51 | 3 55 |
| S 22 | 12 18 | 26 58 | 3 42 | 19 18 | 1 54 | 26 21 | 3 26 | 24 28 | 1 16 | 2 52 | 1 35 | 1 19 | 2 12 | 4 27 | 0 44 | 18 20 | 0 5 | 20 1 | 3 26 | 13 27 | 13 40 | 24 43 | 0 52 | 3 55 |
| S 23 | 12 38 | 24 26 | 2 44 | 19 53 | 2 1 | 26 28 | 3 28 | 24 31 | 1 16 | 2 50 | 1 35 | 1 21 | 2 12 | 4 26 | 0 44 | 18 20 | 0 5 | 20 1 | 3 25 | 13 28 | 13 41 | 24 42 | 0 53 | 3 55 |
| M24 | 12 58 | 20 25 | 1 37 | 20 27 | 2 9 | 26 34 | 3 30 | 24 33 | 1 16 | 2 47 | 1 35 | 1 24 | 2 13 | 4 25 | 0 44 | 18 20 | 0 5 | 20 1 | 3 25 | 13 28 | 13 42 | 24 40 | 0 54 | 3 55 |
| T 25 | 13 18 | 15 17 | 0 24 | 20 57 | 2 15 | 26 40 | 3 32 | 24 35 | 1 16 | 2 45 | 1 35 | 1 27 | 2 13 | 4 24 | 0 44 | 18 20 | 0 5 | 20 1 | 3 25 | 13 28 | 13 43 | 24 38 | 0 56 | 3 55 |
| W26 | 13 37 | 9 24 | 0s50 | 21 26 | 2 21 | 26 46 | 3 33 | 24 37 | 1 17 | 2 43 | 1 35 | 1 29 | 2 13 | 4 23 | 0 44 | 18 20 | 0 5 | 20 1 | 3 25 | 13 28 | 13 44 | 24 36 | 0 57 | 3 55 |
| T 27 | 13 56 | 3 7 | 2 0 | 21 51 | 2 25 | 26 51 | 3 34 | 24 39 | 1 17 | 2 40 | 1 34 | 1 32 | 2 13 | 4 22 | 0 45 | 18 20 | 0 5 | 20 1 | 3 25 | 13 29 | 13 45 | 24 35 | 0 58 | 3 55 |
| F 28 | 14 15 | 3s13 | 3 2 | 22 14 | 2 29 | 26 55 | 3 36 | 24 40 | 1 17 | 2 38 | 1 34 | 1 35 | 2 13 | 4 21 | 0 45 | 18 20 | 0 5 | 20 1 | 3 25 | 13 30 | 13 46 | 24 33 | 0 59 | 3 55 |
| S 29 | 14 34 | 9 20 | 3 53 | 22 35 | 2 32 | 26 58 | 3 37 | 24 42 | 1 17 | 2 36 | 1 34 | 1 37 | 2 13 | 4 20 | 0 45 | 18 20 | 0 5 | 20 2 | 3 25 | 13 33 | 13 47 | 24 31 | 1 1 | 3 56 |
| S 30 | 14n52 | 14s56 | 4s31 | 22n53 | 2n35 | 27n 1 | 3n38 | 24n43 | 1n17 | 2s34 | 1n34 | 1n40 | 2s13 | 4s19 | 0s45 | 18s20 | 0n 5 | 20n 2 | 3s25 | 13s36 | 13s48 | 24s29 | 1n 2 | 3n56 |

Julian Day Number = 2332201.5, Delta T = 27.69 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'46, Lahiri = 19°17'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## MAY 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 37 43 | 11♉ 2'58 | 10♏54 | 2♊ 3 | 26♊11 | 27♊ 1 | 9°R59 | 9♈27 | 20♓52 | 7♒36 | 3♋34 | 23°R39 | 23♒10 | 21♑24 | 23♓34 | M 1 |
| T 2 | 14 41 40 | 12° 1'00 | 23°44 | 3° 9 | 27° 4 | 27°38 | 9♎54 | 9°34 | 20°55 | 7°37 | 3°35 | 23♒26 | 23° 7 | 21°31 | 23°37 | T 2 |
| W 3 | 14 45 36 | 12°59'00 | 6♐19 | 4°11 | 27°56 | 28°16 | 9°48 | 9°41 | 20°57 | 7°37 | 3°36 | 23°14 | 23° 4 | 21°38 | 23°40 | W 3 |
| T 4 | 14 49 33 | 13°56'58 | 18°40 | 5° 9 | 28°48 | 28°53 | 9°43 | 9°47 | 21° 0 | 7°37 | 3°37 | 23° 3 | 23° 1 | 21°44 | 23°42 | T 4 |
| F 5 | 14 53 29 | 14°54'55 | 0♑47 | 6° 2 | 29°39 | 29°31 | 9°38 | 9°54 | 21° 2 | 7°37 | 3°38 | 22°54 | 22°57 | 21°51 | 23°45 | F 5 |
| S 6 | 14 57 26 | 15°52'51 | 12°45 | 6°50 | 0♋29 | 0♋ 8 | 9°32 | 10° 0 | 21° 4 | 7°37 | 3°39 | 22°47 | 22°54 | 21°58 | 23°48 | S 6 |
| S 7 | 15 1 23 | 16°50'46 | 24°36 | 7°33 | 1°18 | 0°46 | 9°28 | 10° 7 | 21° 7 | 7°38 | 3°40 | 22°44 | 22°51 | 22° 4 | 23°50 | S 7 |
| M 8 | 15 5 19 | 17°48'39 | 6♒25 | 8°12 | 2° 7 | 1°24 | 9°23 | 10°14 | 21° 9 | 7°38 | 3°41 | 22°42 | 22°48 | 22°11 | 23°53 | M 8 |
| T 9 | 15 9 16 | 18°46'30 | 18°16 | 8°46 | 2°55 | 2° 1 | 9°18 | 10°20 | 21°11 | 7°R38 | 3°42 | 22°42 | 22°45 | 22°18 | 23°55 | T 9 |
| W10 | 15 13 12 | 19°44'21 | 0♓17 | 9°15 | 3°42 | 2°39 | 9°14 | 10°26 | 21°13 | 7°38 | 3°43 | 22°42 | 22°42 | 22°24 | 23°58 | W10 |
| T 11 | 15 17 9 | 20°42'10 | 12°31 | 9°39 | 4°28 | 3°16 | 9° 9 | 10°33 | 21°15 | 7°38 | 3°44 | 22°41 | 22°38 | 22°31 | 24° 0 | T 11 |
| F 12 | 15 21 5 | 21°39'58 | 25° 3 | 9°58 | 5°13 | 3°54 | 9° 5 | 10°39 | 21°17 | 7°38 | 3°46 | 22°38 | 22°35 | 22°38 | 24° 2 | F 12 |
| S 13 | 15 25 2 | 22°37'45 | 7♈59 | 10°12 | 5°57 | 4°31 | 9° 1 | 10°45 | 21°20 | 7°37 | 3°47 | 22°33 | 22°32 | 22°44 | 24° 5 | S 13 |
| S 14 | 15 28 58 | 23°35'31 | 21°20 | 10°21 | 6°41 | 5° 9 | 8°57 | 10°52 | 21°22 | 7°37 | 3°48 | 22°25 | 22°29 | 22°51 | 24° 7 | S 14 |
| M15 | 15 32 55 | 24°33'15 | 5♉ 7 | 10°R26 | 7°23 | 5°46 | 8°54 | 10°58 | 21°24 | 7°37 | 3°49 | 22°15 | 22°26 | 22°58 | 24° 9 | M15 |
| T 16 | 15 36 52 | 25°30'58 | 19°16 | 10°25 | 8° 5 | 6°24 | 8°50 | 11° 4 | 21°25 | 7°37 | 3°50 | 22° 4 | 22°22 | 23° 4 | 24°11 | T 16 |
| W17 | 15 40 48 | 26°28'40 | 3♊44 | 10°20 | 8°45 | 7° 1 | 8°47 | 11°10 | 21°27 | 7°37 | 3°52 | 21°52 | 22°19 | 23°11 | 24°13 | W17 |
| T 18 | 15 44 45 | 27°26'21 | 18°23 | 10°11 | 9°24 | 7°39 | 8°44 | 11°16 | 21°29 | 7°36 | 3°53 | 21°42 | 22°16 | 23°18 | 24°16 | T 18 |
| F 19 | 15 48 41 | 28°24'01 | 3♋ 6 | 9°57 | 10° 2 | 8°16 | 8°41 | 11°22 | 21°31 | 7°36 | 3°54 | 21°33 | 22°13 | 23°24 | 24°18 | F 19 |
| S 20 | 15 52 38 | 29°21'39 | 17°46 | 9°40 | 10°39 | 8°54 | 8°38 | 11°28 | 21°33 | 7°36 | 3°55 | 21°28 | 22°10 | 23°31 | 24°20 | S 20 |
| S 21 | 15 56 34 | 0♊19'15 | 2♌16 | 9°19 | 11°15 | 9°31 | 8°35 | 11°34 | 21°34 | 7°35 | 3°57 | 21°25 | 22° 7 | 23°38 | 24°22 | S 21 |
| M22 | 16 0 31 | 1°16'50 | 16°33 | 8°54 | 11°49 | 10° 9 | 8°33 | 11°40 | 21°36 | 7°35 | 3°58 | 21°D24 | 22° 3 | 23°44 | 24°23 | M22 |
| T 23 | 16 4 27 | 2°14'23 | 0♍35 | 8°27 | 12°23 | 10°46 | 8°30 | 11°45 | 21°38 | 7°35 | 3°59 | 21°R24 | 22° 0 | 23°51 | 24°25 | T 23 |
| W24 | 16 8 24 | 3°11'55 | 14°23 | 7°57 | 12°54 | 11°24 | 8°28 | 11°51 | 21°39 | 7°34 | 4° 0 | 21°23 | 21°57 | 23°58 | 24°27 | W24 |
| T 25 | 16 12 21 | 4° 9'26 | 27°56 | 7°26 | 13°24 | 12° 1 | 8°26 | 11°56 | 21°41 | 7°34 | 4° 2 | 21°22 | 21°54 | 24° 4 | 24°29 | T 25 |
| F 26 | 16 16 17 | 5° 6'55 | 11♎15 | 6°53 | 13°53 | 12°39 | 8°25 | 12° 2 | 21°42 | 7°33 | 4° 3 | 21°17 | 21°51 | 24°11 | 24°31 | F 26 |
| S 27 | 16 20 14 | 6° 4'23 | 24°23 | 6°19 | 14°20 | 13°16 | 8°23 | 12° 7 | 21°44 | 7°33 | 4° 4 | 21°10 | 21°47 | 24°18 | 24°32 | S 27 |
| S 28 | 16 24 10 | 7° 1'49 | 7♏18 | 5°46 | 14°46 | 13°54 | 8°22 | 12°13 | 21°45 | 7°32 | 4° 6 | 21° 1 | 21°44 | 24°24 | 24°34 | S 28 |
| M29 | 16 28 7 | 7°59'15 | 20° 2 | 5°12 | 15° 9 | 14°31 | 8°20 | 12°18 | 21°47 | 7°32 | 4° 7 | 20°50 | 21°41 | 24°31 | 24°35 | M29 |
| T 30 | 16 32 3 | 8°56'40 | 2♐34 | 4°40 | 15°31 | 15° 9 | 8°19 | 12°23 | 21°48 | 7°31 | 4° 8 | 20°37 | 21°38 | 24°38 | 24°37 | T 30 |
| W31 | 16 36 0 | 9♊54'03 | 14♐55 | 4♊10 | 15♋52 | 15♋46 | 8♎19 | 12♈29 | 21♓49 | 7♒30 | 4♋10 | 20♒25 | 21♒35 | 24♑44 | 24♓38 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 15n10 | 19s46 | 4s53 | 23n 9 | 2n36 | 27n 4 | 3n38 | 24n44 | 1n17 | 2s32 | 1n34 | 1n42 | 2s13 | 4s18 | 0s45 | 18s20 | 0n 5 | 20n 2 | 3s24 | 13s40 | 13s49 | 24s27 | 1n 3 | 3n56 |
| T 2 | 15 28 | 23 35 | 5 1 | 23 23 | 2 36 | 27 6 | 3 39 | 24 45 | 1 17 | 2 30 | 1 34 | 1 45 | 2 14 | 4 17 | 0 45 | 18 20 | 0 5 | 20 2 | 3 24 | 13 44 | 13 50 | 24 26 | 1 4 | 3 56 |
| W 3 | 15 46 | 26 13 | 4 53 | 23 34 | 2 35 | 27 8 | 3 39 | 24 45 | 1 17 | 2 28 | 1 33 | 1 47 | 2 14 | 4 17 | 0 45 | 18 19 | 0 5 | 20 2 | 3 24 | 13 48 | 13 51 | 24 24 | 1 5 | 3 56 |
| T 4 | 16 3 | 27 31 | 4 32 | 23 43 | 2 34 | 27 8 | 3 40 | 24 46 | 1 17 | 2 26 | 1 33 | 1 50 | 2 14 | 4 16 | 0 45 | 18 19 | 0 5 | 20 2 | 3 24 | 13 52 | 13 52 | 24 22 | 1 6 | 3 56 |
| F 5 | 16 20 | 27 27 | 3 58 | 23 50 | 2 31 | 27 9 | 3 40 | 24 46 | 1 17 | 2 24 | 1 33 | 1 52 | 2 14 | 4 15 | 0 45 | 18 19 | 0 5 | 20 2 | 3 24 | 13 55 | 13 53 | 24 20 | 1 8 | 3 56 |
| S 6 | 16 37 | 26 6 | 3 15 | 23 54 | 2 27 | 27 9 | 3 40 | 24 46 | 1 17 | 2 22 | 1 33 | 1 55 | 2 14 | 4 14 | 0 45 | 18 19 | 0 5 | 20 2 | 3 24 | 13 57 | 13 54 | 24 18 | 1 9 | 3 56 |
| S 7 | 16 54 | 23 35 | 2 23 | 23 57 | 2 22 | 27 8 | 3 40 | 24 46 | 1 17 | 2 20 | 1 33 | 1 57 | 2 14 | 4 13 | 0 45 | 18 19 | 0 5 | 20 2 | 3 24 | 13 58 | 13 55 | 24 16 | 1 10 | 3 56 |
| M 8 | 17 10 | 20 5 | 1 25 | 23 58 | 2 16 | 27 7 | 3 39 | 24 46 | 1 17 | 2 19 | 1 32 | 2 0 | 2 14 | 4 12 | 0 45 | 18 19 | 0 5 | 20 2 | 3 24 | 13 58 | 13 57 | 24 15 | 1 11 | 3 56 |
| T 9 | 17 26 | 15 45 | 0 23 | 23 56 | 2 10 | 27 6 | 3 39 | 24 45 | 1 17 | 2 17 | 1 32 | 2 2 | 2 15 | 4 11 | 0 45 | 18 19 | 0 5 | 20 2 | 3 24 | 13 58 | 13 58 | 24 13 | 1 12 | 3 57 |
| W10 | 17 42 | 10 46 | 0n40 | 23 53 | 2 2 | 27 4 | 3 38 | 24 44 | 1 17 | 2 15 | 1 32 | 2 5 | 2 15 | 4 10 | 0 45 | 18 19 | 0 5 | 20 3 | 3 23 | 13 59 | 13 59 | 24 11 | 1 13 | 3 57 |
| T 11 | 17 58 | 5 18 | 1 43 | 23 48 | 1 53 | 27 1 | 3 37 | 24 44 | 1 17 | 2 14 | 1 32 | 2 7 | 2 15 | 4 10 | 0 45 | 18 19 | 0 5 | 20 3 | 3 23 | 13 59 | 14 0 | 24 9 | 1 14 | 3 57 |
| F 12 | 18 13 | 0n31 | 2 42 | 23 41 | 1 43 | 26 58 | 3 35 | 24 43 | 1 17 | 2 12 | 1 31 | 2 9 | 2 15 | 4 9 | 0 45 | 18 19 | 0 5 | 20 3 | 3 23 | 14 0 | 14 1 | 24 7 | 1 15 | 3 57 |
| S 13 | 18 28 | 6 28 | 3 35 | 23 32 | 1 32 | 26 55 | 3 34 | 24 41 | 1 17 | 2 11 | 1 31 | 2 12 | 2 15 | 4 8 | 0 45 | 18 19 | 0 5 | 20 3 | 3 23 | 14 1 | 14 2 | 24 5 | 1 16 | 3 57 |
| S 14 | 18 42 | 12 19 | 4 18 | 23 21 | 1 20 | 26 51 | 3 32 | 24 40 | 1 17 | 2 10 | 1 31 | 2 14 | 2 15 | 4 7 | 0 45 | 18 19 | 0 5 | 20 3 | 3 23 | 14 4 | 14 3 | 24 3 | 1 17 | 3 57 |
| M15 | 18 57 | 17 45 | 4 47 | 23 9 | 1 7 | 26 47 | 3 30 | 24 38 | 1 17 | 2 9 | 1 31 | 2 16 | 2 16 | 4 7 | 0 45 | 18 20 | 0 5 | 20 3 | 3 23 | 14 7 | 14 4 | 24 2 | 1 18 | 3 57 |
| T 16 | 19 11 | 22 23 | 5 0 | 22 55 | 0 53 | 26 42 | 3 28 | 24 37 | 1 17 | 2 7 | 1 31 | 2 18 | 2 16 | 4 6 | 0 45 | 18 20 | 0 5 | 20 3 | 3 23 | 14 11 | 14 5 | 24 0 | 1 19 | 3 57 |
| W17 | 19 24 | 25 45 | 4 54 | 22 40 | 0 38 | 26 37 | 3 26 | 24 35 | 1 17 | 2 6 | 1 30 | 2 21 | 2 16 | 4 5 | 0 45 | 18 20 | 0 5 | 20 3 | 3 23 | 14 15 | 14 6 | 23 58 | 1 20 | 3 58 |
| T 18 | 19 37 | 27 26 | 4 29 | 22 24 | 0 23 | 26 32 | 3 23 | 24 33 | 1 17 | 2 5 | 1 30 | 2 23 | 2 16 | 4 4 | 0 45 | 18 20 | 0 5 | 20 3 | 3 23 | 14 18 | 14 7 | 23 56 | 1 21 | 3 58 |
| F 19 | 19 50 | 27 13 | 3 46 | 22 6 | 0 7 | 26 26 | 3 20 | 24 30 | 1 17 | 2 4 | 1 30 | 2 25 | 2 16 | 4 4 | 0 45 | 18 20 | 0 5 | 20 3 | 3 23 | 14 21 | 14 8 | 23 54 | 1 22 | 3 58 |
| S 20 | 20 3 | 25 4 | 2 48 | 21 47 | 0s10 | 26 20 | 3 17 | 24 28 | 1 17 | 2 3 | 1 30 | 2 27 | 2 16 | 4 3 | 0 45 | 18 20 | 0 5 | 20 3 | 3 22 | 14 23 | 14 9 | 23 52 | 1 23 | 3 58 |
| S 21 | 20 15 | 21 18 | 1 39 | 21 27 | 0 27 | 26 13 | 3 14 | 24 25 | 1 17 | 2 3 | 1 29 | 2 29 | 2 17 | 4 2 | 0 45 | 18 20 | 0 5 | 20 3 | 3 22 | 14 24 | 14 10 | 23 50 | 1 24 | 3 58 |
| M22 | 20 27 | 16 19 | 0 26 | 21 6 | 0 44 | 26 7 | 3 10 | 24 22 | 1 17 | 2 2 | 1 29 | 2 31 | 2 17 | 4 2 | 0 45 | 18 20 | 0 5 | 20 3 | 3 22 | 14 24 | 14 11 | 23 48 | 1 25 | 3 58 |
| T 23 | 20 39 | 10 32 | 0s49 | 20 44 | 1 2 | 25 59 | 3 6 | 24 19 | 1 17 | 2 1 | 1 29 | 2 33 | 2 17 | 4 1 | 0 45 | 18 20 | 0 5 | 20 3 | 3 22 | 14 24 | 14 12 | 23 46 | 1 26 | 3 58 |
| W24 | 20 50 | 4 20 | 1 59 | 20 22 | 1 19 | 25 52 | 3 2 | 24 16 | 1 17 | 2 1 | 1 29 | 2 35 | 2 17 | 4 1 | 0 45 | 18 20 | 0 5 | 20 3 | 3 22 | 14 24 | 14 13 | 23 44 | 1 26 | 3 58 |
| T 25 | 21 1 | 1s56 | 3 1 | 20 0 | 1 37 | 25 44 | 2 57 | 24 13 | 1 17 | 2 0 | 1 28 | 2 37 | 2 17 | 4 0 | 0 45 | 18 20 | 0 4 | 20 4 | 3 22 | 14 24 | 14 14 | 23 42 | 1 27 | 3 59 |
| F 26 | 21 12 | 8 1 | 3 52 | 19 38 | 1 54 | 25 36 | 2 52 | 24 9 | 1 17 | 2 0 | 1 28 | 2 39 | 2 18 | 3 59 | 0 45 | 18 21 | 0 4 | 20 4 | 3 22 | 14 26 | 14 15 | 23 40 | 1 28 | 3 59 |
| S 27 | 21 22 | 13 38 | 4 30 | 19 16 | 2 10 | 25 28 | 2 47 | 24 6 | 1 17 | 1 59 | 1 28 | 2 41 | 2 18 | 3 59 | 0 45 | 18 21 | 0 4 | 20 4 | 3 22 | 14 28 | 14 16 | 23 38 | 1 29 | 3 59 |
| S 28 | 21 31 | 18 35 | 4 53 | 18 55 | 2 26 | 25 20 | 2 41 | 24 2 | 1 17 | 1 59 | 1 28 | 2 43 | 2 18 | 3 58 | 0 45 | 18 21 | 0 4 | 20 4 | 3 22 | 14 31 | 14 17 | 23 36 | 1 30 | 3 59 |
| M29 | 21 41 | 22 37 | 5 1 | 18 34 | 2 41 | 25 11 | 2 35 | 23 58 | 1 17 | 1 59 | 1 27 | 2 45 | 2 18 | 3 58 | 0 45 | 18 21 | 0 4 | 20 4 | 3 22 | 14 35 | 14 18 | 23 34 | 1 30 | 3 59 |
| T 30 | 21 50 | 25 32 | 4 55 | 18 14 | 2 55 | 25 2 | 2 29 | 23 53 | 1 17 | 1 58 | 1 27 | 2 47 | 2 18 | 3 57 | 0 46 | 18 21 | 0 4 | 20 4 | 3 21 | 14 39 | 14 19 | 23 32 | 1 31 | 3 59 |
| W31 | 21n59 | 27s11 | 4s35 | 17n56 | 3s 9 | 24n53 | 2n22 | 23n49 | 1n16 | 1s58 | 1n27 | 2n49 | 2s19 | 3s57 | 0s46 | 18s21 | 0n 4 | 20n 4 | 3s21 | 14s42 | 14s20 | 23s30 | 1n32 | 4n 0 |

Julian Day Number = 2332231.5, Delta T = 27.64 sec
Ecliptic obliquity = 23°29'02, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'50, Lahiri = 19°17'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## JUNE 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 39 57 | 10♊51'26 | 27♐ 6 | 3°R41 | 16♋10 | 16♋24 | 8°R18 | 12♈34 | 21♓51 | 7°R30 | 4♋11 | 20°R15 | 21♒32 | 24♉51 | 24♓40 | T 1 |
| F 2 | 16 43 53 | 11°48'48 | 9♑ 7 | 3♊15 | 16°27 | 17° 1 | 8♎17 | 12°39 | 21°52 | 7♒29 | 4°13 | 20♒ 6 | 21°28 | 24°58 | 24°41 | F 2 |
| S 3 | 16 47 50 | 12°46'09 | 21° 0 | 2°52 | 16°41 | 17°39 | 8°17 | 12°44 | 21°53 | 7°28 | 4°14 | 20° 0 | 21°25 | 25° 4 | 24°43 | S 3 |
| S 4 | 16 51 46 | 13°43'30 | 2♒49 | 2°32 | 16°54 | 18°16 | 8°D17 | 12°49 | 21°54 | 7°27 | 4°15 | 19°56 | 21°22 | 25°11 | 24°44 | S 4 |
| M 5 | 16 55 43 | 14°40'50 | 14°36 | 2°16 | 17° 4 | 18°54 | 8°17 | 12°54 | 21°55 | 7°27 | 4°17 | 19°D54 | 21°19 | 25°18 | 24°45 | M 5 |
| T 6 | 16 59 39 | 15°38'09 | 26°27 | 2° 4 | 17°12 | 19°31 | 8°17 | 12°58 | 21°56 | 7°26 | 4°18 | 19°54 | 21°16 | 25°24 | 24°46 | T 6 |
| W 7 | 17 3 36 | 16°35'28 | 8♓27 | 1°56 | 17°18 | 20° 9 | 8°18 | 13° 3 | 21°57 | 7°25 | 4°20 | 19°55 | 21°13 | 25°31 | 24°47 | W 7 |
| T 8 | 17 7 32 | 17°32'46 | 20°40 | 1°D53 | 17°22 | 20°46 | 8°18 | 13° 8 | 21°58 | 7°24 | 4°21 | 19°R55 | 21° 9 | 25°38 | 24°48 | T 8 |
| F 9 | 17 11 29 | 18°30'04 | 3♈12 | 1°53 | 17°R24 | 21°24 | 8°19 | 13°12 | 21°59 | 7°23 | 4°23 | 19°54 | 21° 6 | 25°44 | 24°49 | F 9 |
| S 10 | 17 15 26 | 19°27'22 | 16° 7 | 1°59 | 17°23 | 22° 1 | 8°20 | 13°17 | 22° 0 | 7°22 | 4°24 | 19°51 | 21° 3 | 25°51 | 24°50 | S 10 |
| S 11 | 17 19 22 | 20°24'39 | 29°29 | 2° 9 | 17°20 | 22°39 | 8°21 | 13°21 | 22° 0 | 7°21 | 4°26 | 19°46 | 21° 0 | 25°58 | 24°51 | S 11 |
| M12 | 17 23 19 | 21°21'56 | 13♉19 | 2°23 | 17°15 | 23°16 | 8°22 | 13°25 | 22° 1 | 7°20 | 4°27 | 19°39 | 20°57 | 26° 4 | 24°52 | M12 |
| T 13 | 17 27 15 | 22°19'13 | 27°37 | 2°42 | 17° 7 | 23°54 | 8°24 | 13°30 | 22° 2 | 7°19 | 4°28 | 19°30 | 20°53 | 26°11 | 24°53 | T 13 |
| W14 | 17 31 12 | 23°16'29 | 12♊17 | 3° 6 | 16°57 | 24°31 | 8°25 | 13°34 | 22° 2 | 7°18 | 4°30 | 19°22 | 20°50 | 26°18 | 24°54 | W14 |
| T 15 | 17 35 8 | 24°13'45 | 27°13 | 3°34 | 16°44 | 25° 9 | 8°27 | 13°38 | 22° 3 | 7°17 | 4°31 | 19°14 | 20°47 | 26°24 | 24°54 | T 15 |
| F 16 | 17 39 5 | 25°11'01 | 12♋16 | 4° 7 | 16°29 | 25°47 | 8°29 | 13°42 | 22° 3 | 7°16 | 4°33 | 19° 8 | 20°44 | 26°31 | 24°55 | F 16 |
| S 17 | 17 43 1 | 26° 8'16 | 27°16 | 4°44 | 16°12 | 26°24 | 8°31 | 13°46 | 22° 4 | 7°15 | 4°34 | 19° 4 | 20°41 | 26°37 | 24°56 | S 17 |
| S 18 | 17 46 58 | 27° 5'30 | 12♌ 5 | 5°26 | 15°52 | 27° 2 | 8°34 | 13°50 | 22° 4 | 7°14 | 4°36 | 19°D 2 | 20°38 | 26°44 | 24°56 | S 18 |
| M19 | 17 50 55 | 28° 2'44 | 26°38 | 6°12 | 15°30 | 27°39 | 8°36 | 13°53 | 22° 5 | 7°13 | 4°37 | 19° 2 | 20°34 | 26°51 | 24°57 | M19 |
| T 20 | 17 54 51 | 28°59'57 | 10♍51 | 7° 2 | 15° 6 | 28°17 | 8°39 | 13°57 | 22° 5 | 7°11 | 4°39 | 19° 3 | 20°31 | 26°57 | 24°57 | T 20 |
| W21 | 17 58 48 | 29°57'09 | 24°42 | 7°56 | 14°40 | 28°54 | 8°42 | 14° 0 | 22° 5 | 7°10 | 4°40 | 19°R 4 | 20°28 | 27° 4 | 24°57 | W21 |
| T 22 | 18 2 44 | 0♋54'21 | 8♎13 | 8°54 | 14°12 | 29°32 | 8°45 | 14° 4 | 22° 6 | 7° 9 | 4°42 | 19° 3 | 20°25 | 27°11 | 24°58 | T 22 |
| F 23 | 18 6 41 | 1°51'33 | 21°25 | 9°56 | 13°42 | 0♌ 9 | 8°48 | 14° 7 | 22° 6 | 7° 8 | 4°43 | 19° 2 | 20°22 | 27°17 | 24°58 | F 23 |
| S 24 | 18 10 37 | 2°48'44 | 4♏20 | 11° 3 | 13°11 | 0°47 | 8°51 | 14°11 | 22° 6 | 7° 7 | 4°45 | 18°58 | 20°19 | 27°24 | 24°58 | S 24 |
| S 25 | 18 14 34 | 3°45'54 | 17° 0 | 12°13 | 12°38 | 1°25 | 8°55 | 14°14 | 22° 6 | 7° 5 | 4°46 | 18°52 | 20°15 | 27°31 | 24°58 | S 25 |
| M26 | 18 18 30 | 4°43'05 | 29°28 | 13°27 | 12° 3 | 2° 2 | 8°59 | 14°17 | 22°R 6 | 7° 4 | 4°48 | 18°45 | 20°12 | 27°37 | 24°59 | M26 |
| T 27 | 18 22 27 | 5°40'15 | 11♐45 | 14°45 | 11°28 | 2°40 | 9° 3 | 14°20 | 22° 6 | 7° 3 | 4°49 | 18°38 | 20° 9 | 27°44 | 24°R59 | T 27 |
| W28 | 18 26 24 | 6°37'25 | 23°53 | 16° 7 | 10°52 | 3°17 | 9° 7 | 14°23 | 22° 6 | 7° 1 | 4°51 | 18°30 | 20° 6 | 27°51 | 24°59 | W28 |
| T 29 | 18 30 20 | 7°34'35 | 5♑53 | 17°33 | 10°15 | 3°55 | 9°11 | 14°26 | 22° 6 | 7° 0 | 4°52 | 18°23 | 20° 3 | 27°57 | 24°59 | T 29 |
| F 30 | 18 34 17 | 8♋31'45 | 17♑47 | 19♊ 2 | 9♋37 | 4♌33 | 9♎15 | 14♈28 | 22♓ 6 | 6♒59 | 4♋54 | 18♒18 | 20♒ 0 | 28♑ 4 | 24♓58 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 7 | 27s29 | 4s 2 | 17n38 | 3s21 | 24n44 | 2n15 | 23n44 | 1n16 | 1s58 | 1n26 | 2n51 | 2s19 | 3s56 | 0s46 | 18s22 | 0n 4 | 20n 4 | 3s21 | 14s46 | 14s21 | 23s28 | 1n33 | 4n 0 |
| F 2 | 22 15 | 26 29 | 3 19 | 17 23 | 3 32 | 24 35 | 2 8 | 23 40 | 1 16 | 1 58 | 1 26 | 2 52 | 2 19 | 3 56 | 0 46 | 18 22 | 0 4 | 20 4 | 3 21 | 14 49 | 14 22 | 23 27 | 1 33 | 4 0 |
| S 3 | 22 22 | 24 16 | 2 28 | 17 9 | 3 42 | 24 25 | 2 0 | 23 35 | 1 16 | 1 59 | 1 26 | 2 54 | 2 19 | 3 56 | 0 46 | 18 22 | 0 4 | 20 4 | 3 21 | 14 51 | 14 23 | 23 25 | 1 34 | 4 0 |
| S 4 | 22 29 | 21 1 | 1 30 | 16 57 | 3 50 | 24 15 | 1 52 | 23 30 | 1 16 | 1 59 | 1 26 | 2 56 | 2 19 | 3 55 | 0 46 | 18 22 | 0 4 | 20 4 | 3 21 | 14 52 | 14 24 | 23 22 | 1 35 | 4 0 |
| M 5 | 22 36 | 16 56 | 0 28 | 16 47 | 3 57 | 24 6 | 1 43 | 23 24 | 1 16 | 1 59 | 1 25 | 2 57 | 2 20 | 3 55 | 0 46 | 18 22 | 0 4 | 20 4 | 3 21 | 14 52 | 14 25 | 23 20 | 1 35 | 4 0 |
| T 6 | 22 42 | 12 10 | 0n35 | 16 38 | 4 3 | 23 56 | 1 34 | 23 19 | 1 16 | 1 59 | 1 25 | 2 59 | 2 20 | 3 54 | 0 46 | 18 23 | 0 4 | 20 4 | 3 21 | 14 52 | 14 26 | 23 18 | 1 36 | 4 0 |
| W 7 | 22 48 | 6 55 | 1 37 | 16 32 | 4 8 | 23 46 | 1 25 | 23 13 | 1 16 | 2 0 | 1 25 | 3 1 | 2 20 | 3 54 | 0 46 | 18 23 | 0 4 | 20 4 | 3 21 | 14 52 | 14 27 | 23 16 | 1 36 | 4 1 |
| T 8 | 22 54 | 1 18 | 2 37 | 16 28 | 4 11 | 23 35 | 1 15 | 23 7 | 1 16 | 2 0 | 1 25 | 3 2 | 2 20 | 3 54 | 0 46 | 18 23 | 0 4 | 20 4 | 3 21 | 14 52 | 14 28 | 23 14 | 1 37 | 4 1 |
| F 9 | 22 59 | 4n29 | 3 30 | 16 27 | 4 13 | 23 25 | 1 5 | 23 2 | 1 16 | 2 1 | 1 24 | 3 4 | 2 21 | 3 53 | 0 46 | 18 23 | 0 4 | 20 4 | 3 21 | 14 52 | 14 29 | 23 12 | 1 38 | 4 1 |
| S 10 | 23 4 | 10 16 | 4 14 | 16 27 | 4 14 | 23 15 | 0 54 | 22 55 | 1 16 | 2 1 | 1 24 | 3 5 | 2 21 | 3 53 | 0 46 | 18 24 | 0 4 | 20 4 | 3 21 | 14 53 | 14 30 | 23 10 | 1 38 | 4 1 |
| S 11 | 23 8 | 15 46 | 4 47 | 16 29 | 4 14 | 23 4 | 0 43 | 22 49 | 1 16 | 2 2 | 1 24 | 3 7 | 2 21 | 3 53 | 0 46 | 18 24 | 0 4 | 20 4 | 3 20 | 14 55 | 14 31 | 23 8 | 1 39 | 4 1 |
| M12 | 23 12 | 20 41 | 5 3 | 16 33 | 4 12 | 22 53 | 0 32 | 22 43 | 1 16 | 2 3 | 1 24 | 3 8 | 2 21 | 3 53 | 0 46 | 18 24 | 0 4 | 20 4 | 3 20 | 14 57 | 14 32 | 23 6 | 1 39 | 4 1 |
| T 13 | 23 16 | 24 34 | 5 2 | 16 39 | 4 10 | 22 43 | 0 20 | 22 36 | 1 15 | 2 4 | 1 23 | 3 10 | 2 21 | 3 52 | 0 46 | 18 24 | 0 4 | 20 4 | 3 20 | 15 0 | 14 33 | 23 4 | 1 40 | 4 2 |
| W14 | 23 19 | 26 57 | 4 42 | 16 47 | 4 6 | 22 32 | 0 8 | 22 29 | 1 15 | 2 5 | 1 23 | 3 11 | 2 22 | 3 52 | 0 46 | 18 25 | 0 4 | 20 4 | 3 20 | 15 3 | 14 34 | 23 2 | 1 40 | 4 2 |
| T 15 | 23 21 | 27 29 | 4 1 | 16 57 | 4 2 | 22 21 | 0s 5 | 22 23 | 1 15 | 2 6 | 1 23 | 3 12 | 2 22 | 3 52 | 0 46 | 18 25 | 0 4 | 20 4 | 3 20 | 15 5 | 14 36 | 23 0 | 1 40 | 4 2 |
| F 16 | 23 24 | 25 58 | 3 4 | 17 8 | 3 57 | 22 10 | 0 18 | 22 16 | 1 15 | 2 7 | 1 22 | 3 14 | 2 22 | 3 52 | 0 46 | 18 25 | 0 4 | 20 4 | 3 20 | 15 7 | 14 37 | 22 58 | 1 41 | 4 2 |
| S 17 | 23 26 | 22 37 | 1 54 | 17 21 | 3 51 | 21 59 | 0 31 | 22 8 | 1 15 | 2 8 | 1 22 | 3 15 | 2 22 | 3 52 | 0 46 | 18 25 | 0 4 | 20 4 | 3 20 | 15 8 | 14 38 | 22 56 | 1 41 | 4 2 |
| S 18 | 23 27 | 17 48 | 0 37 | 17 35 | 3 44 | 21 48 | 0 44 | 22 1 | 1 15 | 2 9 | 1 22 | 3 16 | 2 23 | 3 51 | 0 46 | 18 26 | 0 4 | 20 4 | 3 20 | 15 9 | 14 39 | 22 54 | 1 42 | 4 2 |
| M19 | 23 28 | 12 1 | 0s41 | 17 50 | 3 36 | 21 37 | 0 58 | 21 53 | 1 15 | 2 10 | 1 22 | 3 18 | 2 23 | 3 51 | 0 46 | 18 26 | 0 4 | 20 4 | 3 20 | 15 9 | 14 40 | 22 52 | 1 42 | 4 3 |
| T 20 | 23 29 | 5 44 | 1 55 | 18 7 | 3 28 | 21 26 | 1 12 | 21 46 | 1 15 | 2 11 | 1 21 | 3 19 | 2 23 | 3 51 | 0 46 | 18 26 | 0 4 | 20 4 | 3 20 | 15 8 | 14 41 | 22 50 | 1 42 | 4 3 |
| W21 | 23 29 | 0s39 | 3 0 | 18 24 | 3 19 | 21 15 | 1 26 | 21 38 | 1 15 | 2 13 | 1 21 | 3 20 | 2 23 | 3 51 | 0 46 | 18 27 | 0 4 | 20 4 | 3 20 | 15 8 | 14 42 | 22 48 | 1 42 | 4 3 |
| T 22 | 23 29 | 6 51 | 3 54 | 18 43 | 3 9 | 21 4 | 1 40 | 21 30 | 1 14 | 2 14 | 1 21 | 3 21 | 2 24 | 3 51 | 0 46 | 18 27 | 0 4 | 20 4 | 3 20 | 15 8 | 14 43 | 22 45 | 1 43 | 4 3 |
| F 23 | 23 28 | 12 35 | 4 34 | 19 2 | 2 59 | 20 53 | 1 54 | 21 22 | 1 14 | 2 16 | 1 21 | 3 22 | 2 24 | 3 51 | 0 46 | 18 27 | 0 4 | 20 4 | 3 20 | 15 9 | 14 44 | 22 43 | 1 43 | 4 3 |
| S 24 | 23 27 | 17 40 | 4 59 | 19 21 | 2 49 | 20 42 | 2 8 | 21 14 | 1 14 | 2 17 | 1 20 | 3 23 | 2 24 | 3 51 | 0 46 | 18 28 | 0 4 | 20 4 | 3 20 | 15 10 | 14 45 | 22 41 | 1 43 | 4 3 |
| S 25 | 23 26 | 21 52 | 5 8 | 19 42 | 2 38 | 20 31 | 2 22 | 21 5 | 1 14 | 2 19 | 1 20 | 3 24 | 2 25 | 3 51 | 0 46 | 18 28 | 0 4 | 20 4 | 3 20 | 15 12 | 14 46 | 22 39 | 1 43 | 4 4 |
| M26 | 23 24 | 25 0 | 5 3 | 20 2 | 2 26 | 20 20 | 2 36 | 20 57 | 1 14 | 2 21 | 1 20 | 3 25 | 2 25 | 3 51 | 0 47 | 18 28 | 0 4 | 20 4 | 3 20 | 15 14 | 14 47 | 22 37 | 1 44 | 4 4 |
| T 27 | 23 22 | 26 56 | 4 44 | 20 23 | 2 14 | 20 9 | 2 50 | 20 48 | 1 14 | 2 22 | 1 20 | 3 26 | 2 25 | 3 51 | 0 47 | 18 29 | 0 4 | 20 4 | 3 19 | 15 16 | 14 48 | 22 35 | 1 44 | 4 4 |
| W28 | 23 19 | 27 32 | 4 12 | 20 44 | 2 2 | 19 59 | 3 4 | 20 39 | 1 14 | 2 24 | 1 19 | 3 27 | 2 25 | 3 51 | 0 47 | 18 29 | 0 4 | 20 4 | 3 19 | 15 19 | 14 49 | 22 33 | 1 44 | 4 4 |
| T 29 | 23 16 | 26 50 | 3 29 | 21 4 | 1 50 | 19 48 | 3 18 | 20 30 | 1 13 | 2 26 | 1 19 | 3 28 | 2 26 | 3 51 | 0 47 | 18 29 | 0 4 | 20 4 | 3 19 | 15 21 | 14 50 | 22 31 | 1 44 | 4 4 |
| F 30 | 23n13 | 24s54 | 2s38 | 21n24 | 1s38 | 19n38 | 3s31 | 20n21 | 1n13 | 2s28 | 1n19 | 3n28 | 2s26 | 3s51 | 0s47 | 18s30 | 0n 4 | 20n 4 | 3s19 | 15s22 | 14s51 | 22s28 | 1n44 | 4n 4 |

Julian Day Number = 2332262.5, Delta T = 27.59 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'54, Lahiri = 19°17'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## JULY 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 38 13 | 9♋28'55 | 29♉37 | 20♊35 | 9°R 0 | 5♌10 | 9♎20 | 14♈31 | 22°R 6 | 6°R57 | 4♋55 | 18°R14 | 19♒56 | 28♉11 | 24°R58 | S 1 |
| S 2 | 18 42 10 | 10°26'05 | 11♒24 | 22°11 | 8♋22 | 5°48 | 9°24 | 14°34 | 22♓ 5 | 6♒56 | 4°57 | 18♒13 | 19°53 | 28°17 | 24♓58 | S 2 |
| M 3 | 18 46 6 | 11°23'15 | 23°12 | 23°51 | 7°45 | 6°25 | 9°29 | 14°36 | 22° 5 | 6°54 | 4°58 | 18°D12 | 19°50 | 28°24 | 24°58 | M 3 |
| T 4 | 18 50 3 | 12°20'26 | 5♓ 5 | 25°34 | 7° 8 | 7° 3 | 9°34 | 14°38 | 22° 5 | 6°53 | 5° 0 | 18°13 | 19°47 | 28°31 | 24°57 | T 4 |
| W 5 | 18 53 59 | 13°17'37 | 17° 6 | 27°21 | 6°32 | 7°41 | 9°39 | 14°41 | 22° 4 | 6°52 | 5° 1 | 18°15 | 19°44 | 28°37 | 24°57 | W 5 |
| T 6 | 18 57 56 | 14°14'48 | 29°20 | 29°10 | 5°57 | 8°18 | 9°44 | 14°43 | 22° 4 | 6°50 | 5° 3 | 18°17 | 19°40 | 28°44 | 24°57 | T 6 |
| F 7 | 19 1 53 | 15°12'00 | 11♈50 | 1♋ 3 | 5°24 | 8°56 | 9°50 | 14°45 | 22° 3 | 6°49 | 5° 4 | 18°R17 | 19°37 | 28°51 | 24°56 | F 7 |
| S 8 | 19 5 49 | 16° 9'12 | 24°43 | 2°58 | 4°52 | 9°34 | 9°55 | 14°47 | 22° 3 | 6°47 | 5° 6 | 18°17 | 19°34 | 28°57 | 24°56 | S 8 |
| S 9 | 19 9 46 | 17° 6'25 | 8♉ 1 | 4°56 | 4°21 | 10°11 | 10° 1 | 14°49 | 22° 2 | 6°46 | 5° 7 | 18°16 | 19°31 | 29° 4 | 24°55 | S 9 |
| M10 | 19 13 42 | 18° 3'39 | 21°46 | 6°56 | 3°52 | 10°49 | 10° 7 | 14°51 | 22° 2 | 6°44 | 5° 9 | 18°13 | 19°28 | 29°11 | 24°54 | M10 |
| T 11 | 19 17 39 | 19° 0'53 | 6♊ 0 | 8°59 | 3°25 | 11°27 | 10°13 | 14°52 | 22° 1 | 6°43 | 5°10 | 18° 9 | 19°25 | 29°17 | 24°54 | T 11 |
| W12 | 19 21 35 | 19°58'09 | 20°38 | 11° 3 | 3° 0 | 12° 4 | 10°19 | 14°54 | 22° 0 | 6°41 | 5°12 | 18° 5 | 19°21 | 29°24 | 24°53 | W12 |
| T 13 | 19 25 32 | 20°55'24 | 5♋36 | 13° 8 | 2°37 | 12°42 | 10°25 | 14°55 | 22° 0 | 6°40 | 5°13 | 18° 2 | 19°18 | 29°31 | 24°52 | T 13 |
| F 14 | 19 29 29 | 21°52'41 | 20°46 | 15°14 | 2°16 | 13°20 | 10°32 | 14°57 | 21°59 | 6°38 | 5°15 | 17°59 | 19°15 | 29°37 | 24°51 | F 14 |
| S 15 | 19 33 25 | 22°49'57 | 5♌58 | 17°21 | 1°58 | 13°57 | 10°38 | 14°58 | 21°58 | 6°36 | 5°16 | 17°57 | 19°12 | 29°44 | 24°50 | S 15 |
| S 16 | 19 37 22 | 23°47'14 | 21° 1 | 19°29 | 1°42 | 14°35 | 10°45 | 14°59 | 21°57 | 6°35 | 5°17 | 17°D57 | 19° 9 | 29°51 | 24°49 | S 16 |
| M17 | 19 41 18 | 24°44'32 | 5♍49 | 21°37 | 1°28 | 15°13 | 10°52 | 15° 0 | 21°56 | 6°33 | 5°19 | 17°58 | 19° 6 | 29°57 | 24°48 | M17 |
| T 18 | 19 45 15 | 25°41'49 | 20°16 | 23°45 | 1°16 | 15°51 | 10°59 | 15° 1 | 21°55 | 6°32 | 5°20 | 17°59 | 19° 2 | 0♒ 4 | 24°47 | T 18 |
| W19 | 19 49 11 | 26°39'08 | 4♎17 | 25°52 | 1° 7 | 16°28 | 11° 6 | 15° 2 | 21°54 | 6°30 | 5°22 | 18° 0 | 18°59 | 0°10 | 24°46 | W19 |
| T 20 | 19 53 8 | 27°36'26 | 17°54 | 27°59 | 1° 0 | 17° 6 | 11°13 | 15° 3 | 21°53 | 6°28 | 5°23 | 18° 1 | 18°56 | 0°17 | 24°45 | T 20 |
| F 21 | 19 57 4 | 28°33'45 | 1♏ 7 | 0♌ 5 | 0°56 | 17°44 | 11°20 | 15° 3 | 21°52 | 6°27 | 5°24 | 18°R 1 | 18°53 | 0°24 | 24°44 | F 21 |
| S 22 | 20 1 1 | 29°31'04 | 13°58 | 2°10 | 0°D54 | 18°22 | 11°28 | 15° 4 | 21°51 | 6°25 | 5°26 | 18° 1 | 18°50 | 0°30 | 24°42 | S 22 |
| S 23 | 20 4 58 | 0♌28'24 | 26°32 | 4°14 | 0°54 | 19° 0 | 11°35 | 15° 4 | 21°49 | 6°24 | 5°27 | 17°59 | 18°46 | 0°37 | 24°41 | S 23 |
| M24 | 20 8 54 | 1°25'44 | 8♐50 | 6°16 | 0°57 | 19°37 | 11°43 | 15° 5 | 21°48 | 6°22 | 5°29 | 17°57 | 18°43 | 0°44 | 24°40 | M24 |
| T 25 | 20 12 51 | 2°23'06 | 20°57 | 8°18 | 1° 2 | 20°15 | 11°51 | 15° 5 | 21°47 | 6°20 | 5°30 | 17°55 | 18°40 | 0°50 | 24°38 | T 25 |
| W26 | 20 16 47 | 3°20'27 | 2♑56 | 10°18 | 1° 9 | 20°53 | 11°59 | 15° 5 | 21°46 | 6°19 | 5°31 | 17°53 | 18°37 | 0°57 | 24°37 | W26 |
| T 27 | 20 20 44 | 4°17'50 | 14°48 | 12°16 | 1°18 | 21°31 | 12° 7 | 15°R 5 | 21°44 | 6°17 | 5°33 | 17°51 | 18°34 | 1° 4 | 24°35 | T 27 |
| F 28 | 20 24 40 | 5°15'13 | 26°37 | 14°13 | 1°29 | 22° 9 | 12°15 | 15° 5 | 21°43 | 6°15 | 5°34 | 17°49 | 18°31 | 1°10 | 24°34 | F 28 |
| S 29 | 20 28 37 | 6°12'37 | 8♒26 | 16° 8 | 1°43 | 22°47 | 12°24 | 15° 5 | 21°41 | 6°14 | 5°35 | 17°49 | 18°27 | 1°17 | 24°32 | S 29 |
| S 30 | 20 32 33 | 7°10'02 | 20°15 | 18° 2 | 1°58 | 23°24 | 12°32 | 15° 5 | 21°40 | 6°12 | 5°37 | 17°D48 | 18°24 | 1°24 | 24°31 | S 30 |
| M31 | 20 36 30 | 8♌ 7'28 | 2♓ 8 | 19♌55 | 2♋15 | 24♌ 2 | 12♎41 | 15♈ 4 | 21♓38 | 6♒11 | 5♋38 | 17♒49 | 18♒21 | 1♒30 | 24♓29 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 9 | 21s54 | 1s40 | 21n44 | 1s25 | 19n27 | 3s44 | 20n12 | 1n13 | 2s30 | 1n19 | 3n29 | 2s26 | 3s51 | 0s47 | 18s30 | 0n 4 | 20n 4 | 3s19 | 15s23 | 14s52 | 22s26 | 1n44 | 4n 4 |
| S 2 | 23 4 | 17 59 | 0 37 | 22 3 | 1 13 | 19 17 | 3 56 | 20 2 | 1 13 | 2 32 | 1 18 | 3 30 | 2 26 | 3 52 | 0 47 | 18 30 | 0 4 | 20 4 | 3 19 | 15 24 | 14 53 | 22 24 | 1 44 | 4 5 |
| M 3 | 23 0 | 13 23 | 0n27 | 22 21 | 1 0 | 19 8 | 4 8 | 19 53 | 1 13 | 2 34 | 1 18 | 3 31 | 2 27 | 3 52 | 0 47 | 18 31 | 0 4 | 20 4 | 3 19 | 15 24 | 14 54 | 22 22 | 1 44 | 4 5 |
| T 4 | 22 55 | 8 15 | 1 31 | 22 37 | 0 47 | 18 58 | 4 20 | 19 43 | 1 13 | 2 36 | 1 18 | 3 31 | 2 27 | 3 52 | 0 47 | 18 31 | 0 4 | 20 4 | 3 19 | 15 24 | 14 55 | 22 20 | 1 44 | 4 5 |
| W 5 | 22 49 | 2 47 | 2 31 | 22 53 | 0 35 | 18 49 | 4 30 | 19 33 | 1 13 | 2 39 | 1 18 | 3 32 | 2 27 | 3 52 | 0 47 | 18 32 | 0 4 | 20 4 | 3 19 | 15 23 | 14 56 | 22 18 | 1 44 | 4 5 |
| T 6 | 22 43 | 2n53 | 3 26 | 23 7 | 0 22 | 18 41 | 4 41 | 19 23 | 1 12 | 2 41 | 1 17 | 3 33 | 2 27 | 3 52 | 0 47 | 18 32 | 0 4 | 20 4 | 3 19 | 15 23 | 14 57 | 22 15 | 1 44 | 4 5 |
| F 7 | 22 37 | 8 33 | 4 12 | 23 19 | 0 10 | 18 32 | 4 50 | 19 13 | 1 12 | 2 43 | 1 17 | 3 33 | 2 28 | 3 53 | 0 47 | 18 32 | 0 4 | 20 4 | 3 19 | 15 22 | 14 58 | 22 13 | 1 44 | 4 5 |
| S 8 | 22 30 | 14 2 | 4 47 | 23 29 | 0n 2 | 18 24 | 5 0 | 19 3 | 1 12 | 2 46 | 1 17 | 3 34 | 2 28 | 3 53 | 0 47 | 18 33 | 0 4 | 20 4 | 3 19 | 15 23 | 14 59 | 22 11 | 1 44 | 4 6 |
| S 9 | 22 23 | 19 4 | 5 8 | 23 36 | 0 13 | 18 17 | 5 8 | 18 53 | 1 12 | 2 48 | 1 17 | 3 34 | 2 28 | 3 53 | 0 47 | 18 33 | 0 4 | 20 4 | 3 19 | 15 23 | 15 0 | 22 9 | 1 44 | 4 6 |
| M10 | 22 16 | 23 16 | 5 13 | 23 42 | 0 24 | 18 10 | 5 16 | 18 42 | 1 12 | 2 51 | 1 16 | 3 34 | 2 29 | 3 53 | 0 47 | 18 34 | 0 4 | 20 4 | 3 19 | 15 24 | 15 1 | 22 7 | 1 44 | 4 6 |
| T 11 | 22 8 | 26 14 | 4 58 | 23 45 | 0 34 | 18 4 | 5 23 | 18 32 | 1 12 | 2 53 | 1 16 | 3 35 | 2 29 | 3 54 | 0 47 | 18 34 | 0 4 | 20 4 | 3 19 | 15 25 | 15 2 | 22 4 | 1 44 | 4 6 |
| W12 | 22 0 | 27 33 | 4 24 | 23 46 | 0 44 | 17 58 | 5 29 | 18 21 | 1 11 | 2 56 | 1 16 | 3 35 | 2 29 | 3 54 | 0 47 | 18 34 | 0 4 | 20 4 | 3 19 | 15 26 | 15 3 | 22 2 | 1 44 | 4 6 |
| T 13 | 21 51 | 26 54 | 3 32 | 23 43 | 0 54 | 17 52 | 5 35 | 18 10 | 1 11 | 2 58 | 1 16 | 3 36 | 2 29 | 3 54 | 0 47 | 18 35 | 0 4 | 20 4 | 3 19 | 15 27 | 15 4 | 22 0 | 1 44 | 4 6 |
| F 14 | 21 42 | 24 15 | 2 24 | 23 38 | 1 2 | 17 47 | 5 40 | 17 59 | 1 11 | 3 1 | 1 15 | 3 36 | 2 30 | 3 55 | 0 47 | 18 35 | 0 4 | 20 4 | 3 19 | 15 28 | 15 5 | 21 58 | 1 43 | 4 6 |
| S 15 | 21 33 | 19 53 | 1 6 | 23 31 | 1 10 | 17 43 | 5 45 | 17 48 | 1 11 | 3 4 | 1 15 | 3 36 | 2 30 | 3 55 | 0 47 | 18 35 | 0 4 | 20 4 | 3 19 | 15 29 | 15 6 | 21 55 | 1 43 | 4 7 |
| S 16 | 21 23 | 14 15 | 0s17 | 23 20 | 1 17 | 17 39 | 5 49 | 17 37 | 1 11 | 3 7 | 1 15 | 3 36 | 2 30 | 3 55 | 0 47 | 18 36 | 0 4 | 20 4 | 3 19 | 15 29 | 15 7 | 21 53 | 1 43 | 4 7 |
| M17 | 21 13 | 7 53 | 1 37 | 23 7 | 1 24 | 17 36 | 5 52 | 17 26 | 1 11 | 3 10 | 1 15 | 3 36 | 2 31 | 3 56 | 0 47 | 18 36 | 0 4 | 20 4 | 3 19 | 15 29 | 15 8 | 21 51 | 1 43 | 4 7 |
| T 18 | 21 3 | 1 17 | 2 49 | 22 51 | 1 29 | 17 33 | 5 55 | 17 14 | 1 10 | 3 13 | 1 14 | 3 36 | 2 31 | 3 56 | 0 47 | 18 37 | 0 4 | 20 4 | 3 19 | 15 28 | 15 9 | 21 49 | 1 42 | 4 7 |
| W19 | 20 52 | 5s12 | 3 48 | 22 33 | 1 34 | 17 31 | 5 58 | 17 3 | 1 10 | 3 16 | 1 14 | 3 37 | 2 31 | 3 57 | 0 47 | 18 37 | 0 4 | 20 4 | 3 19 | 15 28 | 15 10 | 21 47 | 1 42 | 4 7 |
| T 20 | 20 41 | 11 15 | 4 33 | 22 12 | 1 38 | 17 29 | 5 59 | 16 51 | 1 10 | 3 19 | 1 14 | 3 37 | 2 31 | 3 57 | 0 47 | 18 38 | 0 4 | 20 4 | 3 19 | 15 28 | 15 11 | 21 44 | 1 42 | 4 7 |
| F 21 | 20 29 | 16 36 | 5 2 | 21 49 | 1 41 | 17 28 | 6 1 | 16 39 | 1 10 | 3 22 | 1 14 | 3 37 | 2 32 | 3 58 | 0 47 | 18 38 | 0 4 | 20 4 | 3 19 | 15 27 | 15 12 | 21 42 | 1 41 | 4 7 |
| S 22 | 20 17 | 21 4 | 5 15 | 21 24 | 1 44 | 17 27 | 6 1 | 16 27 | 1 10 | 3 25 | 1 14 | 3 37 | 2 32 | 3 58 | 0 47 | 18 38 | 0 4 | 20 4 | 3 19 | 15 28 | 15 13 | 21 40 | 1 41 | 4 8 |
| S 23 | 20 5 | 24 28 | 5 12 | 20 57 | 1 46 | 17 27 | 6 2 | 16 15 | 1 9 | 3 28 | 1 13 | 3 36 | 2 32 | 3 59 | 0 47 | 18 39 | 0 4 | 20 4 | 3 18 | 15 28 | 15 14 | 21 37 | 1 40 | 4 8 |
| M24 | 19 53 | 26 40 | 4 55 | 20 28 | 1 47 | 17 27 | 6 2 | 16 3 | 1 9 | 3 31 | 1 13 | 3 36 | 2 33 | 3 59 | 0 47 | 18 39 | 0 4 | 20 4 | 3 18 | 15 29 | 15 15 | 21 35 | 1 40 | 4 8 |
| T 25 | 19 40 | 27 35 | 4 25 | 19 57 | 1 47 | 17 28 | 6 1 | 15 51 | 1 9 | 3 34 | 1 13 | 3 36 | 2 33 | 4 0 | 0 48 | 18 40 | 0 4 | 20 4 | 3 18 | 15 29 | 15 15 | 21 33 | 1 40 | 4 8 |
| W26 | 19 27 | 27 11 | 3 44 | 19 25 | 1 47 | 17 29 | 6 0 | 15 39 | 1 9 | 3 38 | 1 13 | 3 36 | 2 33 | 4 0 | 0 48 | 18 40 | 0 4 | 20 4 | 3 18 | 15 30 | 15 16 | 21 31 | 1 39 | 4 8 |
| T 27 | 19 13 | 25 31 | 2 53 | 18 51 | 1 46 | 17 30 | 5 59 | 15 26 | 1 9 | 3 41 | 1 13 | 3 36 | 2 33 | 4 1 | 0 48 | 18 40 | 0 4 | 20 4 | 3 18 | 15 31 | 15 17 | 21 28 | 1 39 | 4 8 |
| F 28 | 18 59 | 22 45 | 1 55 | 18 16 | 1 44 | 17 31 | 5 57 | 15 14 | 1 8 | 3 45 | 1 12 | 3 35 | 2 34 | 4 1 | 0 48 | 18 41 | 0 4 | 20 4 | 3 18 | 15 31 | 15 18 | 21 26 | 1 38 | 4 8 |
| S 29 | 18 45 | 19 1 | 0 52 | 17 39 | 1 42 | 17 33 | 5 55 | 15 1 | 1 8 | 3 48 | 1 12 | 3 35 | 2 34 | 4 2 | 0 48 | 18 41 | 0 4 | 20 4 | 3 18 | 15 31 | 15 19 | 21 24 | 1 38 | 4 8 |
| S 30 | 18 31 | 14 33 | 0n14 | 17 2 | 1 40 | 17 35 | 5 53 | 14 49 | 1 8 | 3 51 | 1 12 | 3 35 | 2 34 | 4 2 | 0 48 | 18 42 | 0 4 | 20 4 | 3 18 | 15 31 | 15 20 | 21 21 | 1 37 | 4 9 |
| M31 | 18n16 | 9s31 | 1n19 | 16n24 | 1n37 | 17n38 | 5s50 | 14n36 | 1n 8 | 3s55 | 1n12 | 3n34 | 2s35 | 4s 3 | 0s48 | 18s42 | 0n 4 | 20n 4 | 3s18 | 15s31 | 15s21 | 21s19 | 1n36 | 4n 9 |

Julian Day Number = 2332292.5, Delta T = 27.54 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°10'58, Lahiri = 19°17'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## AUGUST 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 40 27 | 9♌ 4'55 | 14♓ 6 | 21♌45 | 2♋34 | 24♌40 | 12♎49 | 15°R 4 | 21°R37 | 6°R 9 | 5♋39 | 17♒49 | 18♒18 | 1♒37 | 24°R27 | T 1 |
| W 2 | 20 44 23 | 10° 2'23 | 26°14 | 23°34 | 2°55 | 25°18 | 12°58 | 15♈ 3 | 21♓35 | 6♒ 7 | 5°41 | 17°50 | 18°15 | 1°44 | 24♓25 | W 2 |
| T 3 | 20 48 20 | 10°59'53 | 8♈33 | 25°22 | 3°18 | 25°56 | 13° 7 | 15° 2 | 21°34 | 6° 6 | 5°42 | 17°51 | 18°11 | 1°50 | 24°24 | T 3 |
| F 4 | 20 52 16 | 11°57'24 | 21° 8 | 27° 8 | 3°43 | 26°34 | 13°16 | 15° 2 | 21°32 | 6° 4 | 5°43 | 17°52 | 18° 8 | 1°57 | 24°22 | F 4 |
| S 5 | 20 56 13 | 12°54'56 | 4♉ 0 | 28°52 | 4° 9 | 27°12 | 13°25 | 15° 1 | 21°30 | 6° 2 | 5°44 | 17°52 | 18° 5 | 2° 4 | 24°20 | S 5 |
| S 6 | 21 0 9 | 13°52'30 | 17°14 | 0♍35 | 4°36 | 27°50 | 13°34 | 15° 0 | 21°29 | 6° 1 | 5°46 | 17°R52 | 18° 2 | 2°10 | 24°18 | S 6 |
| M 7 | 21 4 6 | 14°50'05 | 0♊52 | 2°17 | 5° 6 | 28°28 | 13°43 | 14°59 | 21°27 | 5°59 | 5°47 | 17°52 | 17°59 | 2°17 | 24°16 | M 7 |
| T 8 | 21 8 2 | 15°47'42 | 14°55 | 3°57 | 5°36 | 29° 6 | 13°53 | 14°58 | 21°25 | 5°58 | 5°48 | 17°52 | 17°56 | 2°24 | 24°14 | T 8 |
| W 9 | 21 11 59 | 16°45'20 | 29°21 | 5°35 | 6° 8 | 29°44 | 14° 2 | 14°56 | 21°23 | 5°56 | 5°49 | 17°51 | 17°52 | 2°30 | 24°12 | W 9 |
| T 10 | 21 15 56 | 17°43'00 | 14♋ 7 | 7°12 | 6°42 | 0♍22 | 14°12 | 14°55 | 21°21 | 5°54 | 5°50 | 17°D51 | 17°49 | 2°37 | 24°10 | T 10 |
| F 11 | 21 19 52 | 18°40'42 | 29° 9 | 8°48 | 7°16 | 1° 0 | 14°21 | 14°53 | 21°19 | 5°53 | 5°52 | 17°51 | 17°46 | 2°43 | 24° 8 | F 11 |
| S 12 | 21 23 49 | 19°38'24 | 14♌16 | 10°21 | 7°52 | 1°38 | 14°31 | 14°52 | 21°18 | 5°51 | 5°53 | 17°R51 | 17°43 | 2°50 | 24° 5 | S 12 |
| S 13 | 21 27 45 | 20°36'08 | 29°22 | 11°54 | 8°30 | 2°16 | 14°41 | 14°50 | 21°16 | 5°50 | 5°54 | 17°51 | 17°40 | 2°57 | 24° 3 | S 13 |
| M14 | 21 31 42 | 21°33'54 | 14♍16 | 13°25 | 9° 8 | 2°54 | 14°51 | 14°48 | 21°14 | 5°48 | 5°55 | 17°51 | 17°37 | 3° 3 | 24° 1 | M14 |
| T 15 | 21 35 38 | 22°31'40 | 28°52 | 14°54 | 9°48 | 3°33 | 15° 1 | 14°46 | 21°12 | 5°47 | 5°56 | 17°51 | 17°33 | 3°10 | 23°59 | T 15 |
| W16 | 21 39 35 | 23°29'28 | 13♎ 3 | 16°22 | 10°28 | 4°11 | 15°11 | 14°44 | 21°10 | 5°45 | 5°57 | 17°50 | 17°30 | 3°17 | 23°56 | W16 |
| T 17 | 21 43 31 | 24°27'17 | 26°49 | 17°49 | 11°10 | 4°49 | 15°22 | 14°42 | 21° 8 | 5°44 | 5°58 | 17°50 | 17°27 | 3°23 | 23°54 | T 17 |
| F 18 | 21 47 28 | 25°25'07 | 10♏ 7 | 19°14 | 11°52 | 5°27 | 15°32 | 14°40 | 21° 5 | 5°42 | 5°59 | 17°49 | 17°24 | 3°30 | 23°52 | F 18 |
| S 19 | 21 51 25 | 26°22'59 | 23° 1 | 20°37 | 12°36 | 6° 5 | 15°42 | 14°38 | 21° 3 | 5°41 | 6° 0 | 17°D49 | 17°21 | 3°37 | 23°49 | S 19 |
| S 20 | 21 55 21 | 27°20'51 | 5♐34 | 21°59 | 13°20 | 6°43 | 15°53 | 14°36 | 21° 1 | 5°39 | 6° 1 | 17°49 | 17°17 | 3°43 | 23°47 | S 20 |
| M21 | 21 59 18 | 28°18'45 | 17°49 | 23°19 | 14° 6 | 7°22 | 16° 3 | 14°33 | 20°59 | 5°38 | 6° 2 | 17°49 | 17°14 | 3°50 | 23°44 | M21 |
| T 22 | 22 3 14 | 29°16'41 | 29°51 | 24°37 | 14°52 | 8° 0 | 16°14 | 14°31 | 20°57 | 5°36 | 6° 3 | 17°50 | 17°11 | 3°57 | 23°42 | T 22 |
| W23 | 22 7 11 | 0♑14'37 | 11♑45 | 25°54 | 15°39 | 8°38 | 16°25 | 14°28 | 20°55 | 5°35 | 6° 4 | 17°51 | 17° 8 | 4° 3 | 23°39 | W23 |
| T 24 | 22 11 7 | 1°12'35 | 23°34 | 27° 9 | 16°27 | 9°16 | 16°36 | 14°25 | 20°53 | 5°33 | 6° 5 | 17°53 | 17° 5 | 4°10 | 23°37 | T 24 |
| F 25 | 22 15 4 | 2°10'35 | 5♒22 | 28°22 | 17°16 | 9°55 | 16°46 | 14°22 | 20°50 | 5°32 | 6° 6 | 17°53 | 17° 2 | 4°17 | 23°34 | F 25 |
| S 26 | 22 19 0 | 3° 8'36 | 17°11 | 29°33 | 18° 5 | 10°33 | 16°57 | 14°20 | 20°48 | 5°30 | 6° 7 | 17°R54 | 16°58 | 4°23 | 23°32 | S 26 |
| S 27 | 22 22 57 | 4° 6'38 | 29° 6 | 0♎42 | 18°55 | 11°11 | 17° 8 | 14°17 | 20°46 | 5°29 | 6° 8 | 17°54 | 16°55 | 4°30 | 23°29 | S 27 |
| M28 | 22 26 54 | 5° 4'42 | 11♓ 7 | 1°50 | 19°46 | 11°50 | 17°20 | 14°14 | 20°44 | 5°28 | 6° 9 | 17°52 | 16°52 | 4°37 | 23°27 | M28 |
| T 29 | 22 30 50 | 6° 2'48 | 23°18 | 2°54 | 20°38 | 12°28 | 17°31 | 14°10 | 20°41 | 5°26 | 6°10 | 17°50 | 16°49 | 4°43 | 23°24 | T 29 |
| W30 | 22 34 47 | 7° 0'56 | 5♈38 | 3°57 | 21°30 | 13° 7 | 17°42 | 14° 7 | 20°39 | 5°25 | 6°10 | 17°48 | 16°46 | 4°50 | 23°21 | W30 |
| T 31 | 22 38 43 | 7♍59'05 | 18♈10 | 4♎57 | 22♋23 | 13♍45 | 17♎53 | 14♈ 4 | 20♓37 | 5♒24 | 6♋11 | 17♒45 | 16♒43 | 4♒56 | 23♓19 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n 1 | 4s 6 | 2n21 | 15n45 | 1n33 | 17n40 | 5s47 | 14n23 | 1n 8 | 3s58 | 1n12 | 3n34 | 2s35 | 4s 4 | 0s48 | 18s43 | 0n 4 | 20n 4 | 3s18 | 15s31 | 15s22 | 21s17 | 1n36 | 4n 9 |
| W 2 | 17 46 | 1n31 | 3 18 | 15 5 | 1 29 | 17 43 | 5 44 | 14 10 | 1 7 | 4 2 | 1 11 | 3 33 | 2 35 | 4 4 | 0 48 | 18 43 | 0 4 | 20 4 | 3 18 | 15 31 | 15 23 | 21 14 | 1 35 | 4 9 |
| T 3 | 17 30 | 7 10 | 4 6 | 14 25 | 1 24 | 17 46 | 5 41 | 13 57 | 1 7 | 4 6 | 1 11 | 3 33 | 2 35 | 4 5 | 0 48 | 18 43 | 0 4 | 20 4 | 3 18 | 15 31 | 15 24 | 21 12 | 1 35 | 4 9 |
| F 4 | 17 14 | 12 38 | 4 44 | 13 44 | 1 19 | 17 48 | 5 38 | 13 44 | 1 7 | 4 9 | 1 11 | 3 32 | 2 36 | 4 6 | 0 48 | 18 44 | 0 4 | 20 3 | 3 18 | 15 30 | 15 25 | 21 10 | 1 34 | 4 9 |
| S 5 | 16 58 | 17 42 | 5 8 | 13 2 | 1 14 | 17 51 | 5 34 | 13 31 | 1 7 | 4 13 | 1 11 | 3 32 | 2 36 | 4 6 | 0 48 | 18 44 | 0 4 | 20 3 | 3 18 | 15 30 | 15 26 | 21 8 | 1 33 | 4 9 |
| S 6 | 16 42 | 22 5 | 5 18 | 12 21 | 1 8 | 17 55 | 5 30 | 13 17 | 1 6 | 4 17 | 1 11 | 3 31 | 2 36 | 4 7 | 0 48 | 18 45 | 0 4 | 20 3 | 3 18 | 15 30 | 15 27 | 21 5 | 1 33 | 4 9 |
| M 7 | 16 25 | 25 25 | 5 10 | 11 39 | 1 2 | 17 58 | 5 26 | 13 4 | 1 6 | 4 21 | 1 10 | 3 30 | 2 36 | 4 8 | 0 48 | 18 45 | 0 4 | 20 3 | 3 18 | 15 30 | 15 28 | 21 3 | 1 32 | 4 9 |
| T 8 | 16 8 | 27 19 | 4 43 | 10 56 | 0 55 | 18 1 | 5 22 | 12 50 | 1 6 | 4 24 | 1 10 | 3 30 | 2 37 | 4 9 | 0 48 | 18 45 | 0 4 | 20 3 | 3 18 | 15 30 | 15 29 | 21 0 | 1 31 | 4 9 |
| W 9 | 15 51 | 27 27 | 3 58 | 10 14 | 0 49 | 18 4 | 5 17 | 12 37 | 1 6 | 4 28 | 1 10 | 3 29 | 2 37 | 4 9 | 0 48 | 18 46 | 0 4 | 20 3 | 3 18 | 15 30 | 15 30 | 20 58 | 1 31 | 4 10 |
| T 10 | 15 33 | 25 40 | 2 57 | 9 32 | 0 42 | 18 7 | 5 13 | 12 23 | 1 5 | 4 32 | 1 10 | 3 28 | 2 37 | 4 10 | 0 48 | 18 46 | 0 4 | 20 3 | 3 18 | 15 31 | 15 31 | 20 56 | 1 30 | 4 10 |
| F 11 | 15 15 | 22 2 | 1 42 | 8 49 | 0 34 | 18 10 | 5 8 | 12 9 | 1 5 | 4 36 | 1 10 | 3 27 | 2 37 | 4 11 | 0 48 | 18 47 | 0 4 | 20 3 | 3 18 | 15 31 | 15 32 | 20 53 | 1 29 | 4 10 |
| S 12 | 14 57 | 16 54 | 0 20 | 8 7 | 0 27 | 18 12 | 5 3 | 11 55 | 1 5 | 4 40 | 1 9 | 3 27 | 2 38 | 4 12 | 0 48 | 18 47 | 0 4 | 20 3 | 3 18 | 15 30 | 15 33 | 20 51 | 1 28 | 4 10 |
| S 13 | 14 39 | 10 43 | 1s 4 | 7 24 | 0 19 | 18 15 | 4 58 | 11 41 | 1 5 | 4 44 | 1 9 | 3 26 | 2 38 | 4 12 | 0 48 | 18 47 | 0 4 | 20 3 | 3 18 | 15 31 | 15 34 | 20 49 | 1 27 | 4 10 |
| M14 | 14 21 | 4 1 | 2 22 | 6 42 | 0 11 | 18 18 | 4 53 | 11 28 | 1 4 | 4 48 | 1 9 | 3 25 | 2 38 | 4 13 | 0 48 | 18 48 | 0 4 | 20 3 | 3 18 | 15 31 | 15 35 | 20 46 | 1 27 | 4 10 |
| T 15 | 14 2 | 2s44 | 3 29 | 6 0 | 0 3 | 18 20 | 4 48 | 11 13 | 1 4 | 4 52 | 1 9 | 3 24 | 2 39 | 4 14 | 0 48 | 18 48 | 0 4 | 20 3 | 3 18 | 15 31 | 15 36 | 20 44 | 1 26 | 4 10 |
| W16 | 13 43 | 9 10 | 4 21 | 5 18 | 0s 5 | 18 22 | 4 43 | 10 59 | 1 4 | 4 56 | 1 9 | 3 23 | 2 39 | 4 15 | 0 48 | 18 49 | 0 4 | 20 3 | 3 18 | 15 31 | 15 37 | 20 42 | 1 25 | 4 10 |
| T 17 | 13 24 | 14 57 | 4 56 | 4 37 | 0 14 | 18 24 | 4 37 | 10 45 | 1 4 | 5 0 | 1 9 | 3 22 | 2 39 | 4 16 | 0 48 | 18 49 | 0 4 | 20 3 | 3 18 | 15 31 | 15 38 | 20 39 | 1 24 | 4 10 |
| F 18 | 13 4 | 19 51 | 5 15 | 3 56 | 0 22 | 18 26 | 4 32 | 10 31 | 1 3 | 5 4 | 1 8 | 3 21 | 2 39 | 4 16 | 0 48 | 18 49 | 0 4 | 20 3 | 3 18 | 15 31 | 15 39 | 20 37 | 1 23 | 4 10 |
| S 19 | 12 45 | 23 39 | 5 16 | 3 15 | 0 31 | 18 28 | 4 26 | 10 16 | 1 3 | 5 9 | 1 8 | 3 20 | 2 39 | 4 17 | 0 48 | 18 50 | 0 4 | 20 3 | 3 18 | 15 31 | 15 40 | 20 34 | 1 22 | 4 10 |
| S 20 | 12 25 | 26 14 | 5 2 | 2 35 | 0 40 | 18 29 | 4 21 | 10 2 | 1 3 | 5 13 | 1 8 | 3 18 | 2 40 | 4 18 | 0 48 | 18 50 | 0 4 | 20 3 | 3 18 | 15 31 | 15 41 | 20 32 | 1 21 | 4 10 |
| M21 | 12 5 | 27 29 | 4 35 | 1 55 | 0 49 | 18 30 | 4 15 | 9 48 | 1 3 | 5 17 | 1 8 | 3 17 | 2 40 | 4 19 | 0 48 | 18 51 | 0 4 | 20 3 | 3 18 | 15 31 | 15 42 | 20 30 | 1 20 | 4 10 |
| T 22 | 11 45 | 27 25 | 3 56 | 1 15 | 0 58 | 18 31 | 4 10 | 9 33 | 1 2 | 5 21 | 1 8 | 3 16 | 2 40 | 4 20 | 0 48 | 18 51 | 0 4 | 20 3 | 3 18 | 15 31 | 15 43 | 20 27 | 1 19 | 4 10 |
| W23 | 11 24 | 26 4 | 3 7 | 0 36 | 1 7 | 18 31 | 4 4 | 9 18 | 1 2 | 5 25 | 1 8 | 3 15 | 2 40 | 4 21 | 0 48 | 18 51 | 0 4 | 20 3 | 3 18 | 15 30 | 15 44 | 20 25 | 1 18 | 4 10 |
| T 24 | 11 4 | 23 34 | 2 11 | 0s 2 | 1 16 | 18 32 | 3 58 | 9 4 | 1 2 | 5 30 | 1 8 | 3 14 | 2 41 | 4 22 | 0 48 | 18 52 | 0 4 | 20 3 | 3 18 | 15 30 | 15 45 | 20 22 | 1 17 | 4 10 |
| F 25 | 10 43 | 20 5 | 1 9 | 0 39 | 1 25 | 18 31 | 3 52 | 8 49 | 1 2 | 5 34 | 1 7 | 3 12 | 2 41 | 4 23 | 0 48 | 18 52 | 0 3 | 20 2 | 3 18 | 15 30 | 15 46 | 20 20 | 1 16 | 4 10 |
| S 26 | 10 22 | 15 46 | 0 4 | 1 16 | 1 35 | 18 31 | 3 47 | 8 34 | 1 1 | 5 38 | 1 7 | 3 11 | 2 41 | 4 23 | 0 48 | 18 52 | 0 3 | 20 2 | 3 18 | 15 30 | 15 47 | 20 17 | 1 15 | 4 10 |
| S 27 | 10 1 | 10 51 | 1n 2 | 1 52 | 1 44 | 18 30 | 3 41 | 8 19 | 1 1 | 5 43 | 1 7 | 3 10 | 2 41 | 4 24 | 0 48 | 18 53 | 0 3 | 20 2 | 3 18 | 15 30 | 15 48 | 20 15 | 1 14 | 4 10 |
| M28 | 9 40 | 5 29 | 2 5 | 2 27 | 1 53 | 18 29 | 3 35 | 8 4 | 1 1 | 5 47 | 1 7 | 3 8 | 2 42 | 4 25 | 0 48 | 18 53 | 0 3 | 20 2 | 3 18 | 15 30 | 15 49 | 20 13 | 1 13 | 4 10 |
| T 29 | 9 19 | 0n 8 | 3 3 | 3 1 | 2 2 | 18 27 | 3 29 | 7 50 | 1 0 | 5 51 | 1 7 | 3 7 | 2 42 | 4 26 | 0 48 | 18 53 | 0 3 | 20 2 | 3 18 | 15 31 | 15 50 | 20 10 | 1 12 | 4 10 |
| W30 | 8 57 | 5 49 | 3 54 | 3 35 | 2 11 | 18 25 | 3 23 | 7 35 | 1 0 | 5 56 | 1 7 | 3 5 | 2 42 | 4 27 | 0 48 | 18 54 | 0 3 | 20 2 | 3 18 | 15 32 | 15 50 | 20 8 | 1 11 | 4 10 |
| T 31 | 8n35 | 11n21 | 4n34 | 4s 7 | 2s20 | 18n23 | 3s17 | 7n19 | 1n 0 | 6s 0 | 1n 7 | 3n 4 | 2s42 | 4s28 | 0s48 | 18s54 | 0n 3 | 20n 2 | 3s18 | 15s33 | 15s51 | 20s 5 | 1n10 | 4n10 |

Julian Day Number = 2332323.5, Delta T = 27.48 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'02, Lahiri = 19°18'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## SEPTEMBER 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 42 40 | 8♍57'17 | 0♉56 | 5♎55 | 23♋17 | 14♍23 | 18♎ 5 | 14°R 1 | 20°R34 | 5°R22 | 6♋12 | 17°R42 | 16♒39 | 5♒ 3 | 23°R16 | F 1 |
| S 2 | 22 46 36 | 9°55'30 | 13°56 | 6°49 | 24°11 | 15° 2 | 18°16 | 13♈57 | 20♓32 | 5♒21 | 6°13 | 17♒39 | 16°36 | 5°10 | 23♓13 | S 2 |
| S 3 | 22 50 33 | 10°53'46 | 27°13 | 7°41 | 25° 6 | 15°40 | 18°28 | 13°54 | 20°30 | 5°20 | 6°14 | 17°37 | 16°33 | 5°16 | 23°10 | S 3 |
| M 4 | 22 54 29 | 11°52'04 | 10♊47 | 8°30 | 26° 1 | 16°19 | 18°39 | 13°50 | 20°27 | 5°19 | 6°14 | 17°D37 | 16°30 | 5°23 | 23° 8 | M 4 |
| T 5 | 22 58 26 | 12°50'23 | 24°40 | 9°15 | 26°57 | 16°57 | 18°51 | 13°46 | 20°25 | 5°17 | 6°15 | 17°37 | 16°27 | 5°30 | 23° 5 | T 5 |
| W 6 | 23 2 23 | 13°48'45 | 8♋51 | 9°57 | 27°53 | 17°36 | 19° 3 | 13°43 | 20°22 | 5°16 | 6°16 | 17°38 | 16°23 | 5°36 | 23° 2 | W 6 |
| T 7 | 23 6 19 | 14°47'10 | 23°18 | 10°35 | 28°50 | 18°14 | 19°14 | 13°39 | 20°20 | 5°15 | 6°16 | 17°40 | 16°20 | 5°43 | 22°59 | T 7 |
| F 8 | 23 10 16 | 15°45'36 | 8♌ 0 | 11° 8 | 29°47 | 18°53 | 19°26 | 13°35 | 20°18 | 5°14 | 6°17 | 17°41 | 16°17 | 5°50 | 22°57 | F 8 |
| S 9 | 23 14 12 | 16°44'04 | 22°50 | 11°38 | 0♌45 | 19°32 | 19°38 | 13°31 | 20°15 | 5°13 | 6°18 | 17°R41 | 16°14 | 5°56 | 22°54 | S 9 |
| S 10 | 23 18 9 | 17°42'34 | 7♍42 | 12° 2 | 1°43 | 20°10 | 19°50 | 13°27 | 20°13 | 5°12 | 6°18 | 17°40 | 16°11 | 6° 3 | 22°51 | S 10 |
| M11 | 23 22 5 | 18°41'07 | 22°28 | 12°21 | 2°42 | 20°49 | 20° 2 | 13°23 | 20°10 | 5°11 | 6°19 | 17°37 | 16° 8 | 6°10 | 22°48 | M11 |
| T 12 | 23 26 2 | 19°39'41 | 7♎ 1 | 12°35 | 3°41 | 21°28 | 20°14 | 13°19 | 20° 8 | 5° 9 | 6°20 | 17°33 | 16° 4 | 6°16 | 22°45 | T 12 |
| W13 | 23 29 58 | 20°38'17 | 21°14 | 12°43 | 4°41 | 22° 6 | 20°26 | 13°15 | 20° 6 | 5° 8 | 6°20 | 17°28 | 16° 1 | 6°23 | 22°43 | W13 |
| T 14 | 23 33 55 | 21°36'54 | 5♏ 3 | 12°R45 | 5°41 | 22°45 | 20°38 | 13°11 | 20° 3 | 5° 7 | 6°21 | 17°23 | 15°58 | 6°30 | 22°40 | T 14 |
| F 15 | 23 37 51 | 22°35'34 | 18°27 | 12°41 | 6°41 | 23°24 | 20°51 | 13° 6 | 20° 1 | 5° 6 | 6°21 | 17°18 | 15°55 | 6°36 | 22°37 | F 15 |
| S 16 | 23 41 48 | 23°34'15 | 1♐25 | 12°29 | 7°42 | 24° 3 | 21° 3 | 13° 2 | 19°58 | 5° 5 | 6°22 | 17°14 | 15°52 | 6°43 | 22°34 | S 16 |
| S 17 | 23 45 45 | 24°32'58 | 13°59 | 12°11 | 8°43 | 24°41 | 21°15 | 12°58 | 19°56 | 5° 5 | 6°22 | 17°12 | 15°49 | 6°49 | 22°31 | S 17 |
| M18 | 23 49 41 | 25°31'43 | 26°15 | 11°45 | 9°44 | 25°20 | 21°27 | 12°53 | 19°54 | 5° 4 | 6°23 | 17°D12 | 15°45 | 6°56 | 22°29 | M18 |
| T 19 | 23 53 38 | 26°30'30 | 8♑17 | 11°12 | 10°46 | 25°59 | 21°40 | 12°49 | 19°51 | 5° 3 | 6°23 | 17°12 | 15°42 | 7° 3 | 22°26 | T 19 |
| W20 | 23 57 34 | 27°29'18 | 20° 9 | 10°32 | 11°48 | 26°38 | 21°52 | 12°44 | 19°49 | 5° 2 | 6°23 | 17°14 | 15°39 | 7° 9 | 22°23 | W20 |
| T 21 | 0 1 31 | 28°28'08 | 1♒57 | 9°45 | 12°51 | 27°17 | 22° 5 | 12°40 | 19°46 | 5° 1 | 6°24 | 17°15 | 15°36 | 7°16 | 22°20 | T 21 |
| F 22 | 0 5 27 | 29°27'00 | 13°46 | 8°51 | 13°54 | 27°56 | 22°17 | 12°35 | 19°44 | 5° 0 | 6°24 | 17°R16 | 15°33 | 7°23 | 22°17 | F 22 |
| S 23 | 0 9 24 | 0♎25'53 | 25°39 | 7°52 | 14°57 | 28°35 | 22°30 | 12°31 | 19°42 | 5° 0 | 6°24 | 17°16 | 15°29 | 7°29 | 22°15 | S 23 |
| S 24 | 0 13 20 | 1°24'49 | 7♓40 | 6°49 | 16° 0 | 29°14 | 22°42 | 12°26 | 19°39 | 4°59 | 6°25 | 17°14 | 15°26 | 7°36 | 22°12 | S 24 |
| M25 | 0 17 17 | 2°23'46 | 19°53 | 5°42 | 17° 4 | 29°53 | 22°55 | 12°22 | 19°37 | 4°58 | 6°25 | 17°10 | 15°23 | 7°43 | 22° 9 | M25 |
| T 26 | 0 21 14 | 3°22'45 | 2♈18 | 4°34 | 18° 8 | 0♎32 | 23° 8 | 12°17 | 19°35 | 4°57 | 6°25 | 17° 3 | 15°20 | 7°49 | 22° 6 | T 26 |
| W27 | 0 25 10 | 4°21'47 | 14°56 | 3°26 | 19°13 | 1°11 | 23°20 | 12°12 | 19°32 | 4°57 | 6°25 | 16°56 | 15°17 | 7°56 | 22° 4 | W27 |
| T 28 | 0 29 7 | 5°20'50 | 27°48 | 2°19 | 20°17 | 1°50 | 23°33 | 12° 8 | 19°30 | 4°56 | 6°26 | 16°47 | 15°14 | 8° 3 | 22° 1 | T 28 |
| F 29 | 0 33 3 | 6°19'56 | 10♉54 | 1°16 | 21°22 | 2°29 | 23°46 | 12° 3 | 19°28 | 4°56 | 6°26 | 16°38 | 15°10 | 8° 9 | 21°58 | F 29 |
| S 30 | 0 37 0 | 7♎19'04 | 24♉11 | 0♎19 | 22♌27 | 3♎ 8 | 23♎58 | 11♈58 | 19♓26 | 4♒55 | 6♋26 | 16♒31 | 15♒ 7 | 8♒16 | 21♓55 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | |
| F 1 | 8n14 | 16n31 | 5n 2 | 4s38 | 2s29 | 18n20 | 3s11 | 7n 4 | 1n 0 | 6s 5 | 1n 6 | 3n 2 | 2s42 | 4s29 | 0s48 | 18s54 | 0n 3 | 20n 2 | 3s18 | 15s34 | | 15s52 | | 20s 3 | | 1n 9 | 4n10 |
| S 2 | 7 52 | 21 3 | 5 14 | 5 7 | 2 38 | 18 17 | 3 5 | 6 49 | 0 59 | 6 9 | 1 6 | 3 1 | 2 43 | 4 30 | 0 48 | 18 55 | 0 3 | 20 2 | 3 18 | 15 34 | | 15 53 | | 20 0 | | 1 8 | 4 10 |
| S 3 | 7 30 | 24 36 | 5 10 | 5 36 | 2 46 | 18 13 | 2 59 | 6 34 | 0 59 | 6 14 | 1 6 | 2 59 | 2 43 | 4 31 | 0 48 | 18 55 | 0 3 | 20 2 | 3 18 | 15 35 | | 15 54 | | 19 58 | | 1 7 | 4 10 |
| M 4 | 7 7 | 26 53 | 4 50 | 6 3 | 2 54 | 18 9 | 2 53 | 6 19 | 0 59 | 6 18 | 1 6 | 2 58 | 2 43 | 4 32 | 0 48 | 18 55 | 0 3 | 20 2 | 3 18 | 15 35 | | 15 55 | | 19 55 | | 1 6 | 4 10 |
| T 5 | 6 45 | 27 34 | 4 12 | 6 28 | 3 2 | 18 4 | 2 47 | 6 3 | 0 58 | 6 23 | 1 6 | 2 56 | 2 43 | 4 33 | 0 48 | 18 56 | 0 3 | 20 2 | 3 18 | 15 35 | | 15 56 | | 19 53 | | 1 5 | 4 10 |
| W 6 | 6 23 | 26 28 | 3 17 | 6 52 | 3 10 | 17 59 | 2 41 | 5 48 | 0 58 | 6 27 | 1 6 | 2 55 | 2 43 | 4 34 | 0 48 | 18 56 | 0 3 | 20 2 | 3 18 | 15 35 | | 15 57 | | 19 50 | | 1 4 | 4 10 |
| T 7 | 6 0 | 23 36 | 2 10 | 7 13 | 3 18 | 17 54 | 2 35 | 5 33 | 0 58 | 6 32 | 1 6 | 2 53 | 2 43 | 4 35 | 0 48 | 18 56 | 0 3 | 20 2 | 3 18 | 15 34 | | 15 58 | | 19 48 | | 1 3 | 4 10 |
| F 8 | 5 38 | 19 9 | 0 53 | 7 33 | 3 25 | 17 48 | 2 30 | 5 17 | 0 58 | 6 37 | 1 6 | 2 51 | 2 44 | 4 36 | 0 48 | 18 57 | 0 3 | 20 2 | 3 18 | 15 34 | | 15 59 | | 19 45 | | 1 1 | 4 10 |
| S 9 | 5 15 | 13 29 | 0s28 | 7 51 | 3 31 | 17 41 | 2 24 | 5 2 | 0 57 | 6 41 | 1 5 | 2 50 | 2 44 | 4 36 | 0 48 | 18 57 | 0 3 | 20 2 | 3 19 | 15 34 | | 16 0 | | 19 43 | | 1 0 | 4 10 |
| S 10 | 4 52 | 7 2 | 1 48 | 8 6 | 3 37 | 17 34 | 2 18 | 4 46 | 0 57 | 6 46 | 1 5 | 2 48 | 2 44 | 4 37 | 0 48 | 18 57 | 0 3 | 20 2 | 3 19 | 15 34 | | 16 1 | | 19 40 | | 0 59 | 4 10 |
| M11 | 4 29 | 0 15 | 2 59 | 8 18 | 3 43 | 17 27 | 2 12 | 4 31 | 0 57 | 6 50 | 1 5 | 2 46 | 2 44 | 4 38 | 0 48 | 18 57 | 0 3 | 20 2 | 3 19 | 15 35 | | 16 2 | | 19 38 | | 0 58 | 4 10 |
| T 12 | 4 6 | 6s26 | 3 58 | 8 28 | 3 47 | 17 19 | 2 6 | 4 15 | 0 56 | 6 55 | 1 5 | 2 45 | 2 44 | 4 39 | 0 48 | 18 58 | 0 3 | 20 2 | 3 19 | 15 36 | | 16 3 | | 19 35 | | 0 57 | 4 10 |
| W13 | 3 43 | 12 37 | 4 40 | 8 35 | 3 51 | 17 11 | 2 0 | 4 0 | 0 56 | 7 0 | 1 5 | 2 43 | 2 44 | 4 40 | 0 48 | 18 58 | 0 3 | 20 2 | 3 19 | 15 38 | | 16 4 | | 19 33 | | 0 56 | 4 10 |
| T 14 | 3 20 | 18 1 | 5 5 | 8 38 | 3 54 | 17 2 | 1 54 | 3 44 | 0 56 | 7 4 | 1 5 | 2 41 | 2 44 | 4 41 | 0 48 | 18 58 | 0 3 | 20 1 | 3 19 | 15 39 | | 16 5 | | 19 30 | | 0 55 | 4 10 |
| F 15 | 2 57 | 22 20 | 5 12 | 8 38 | 3 56 | 16 53 | 1 49 | 3 28 | 0 55 | 7 9 | 1 5 | 2 39 | 2 45 | 4 42 | 0 48 | 18 58 | 0 3 | 20 1 | 3 19 | 15 41 | | 16 6 | | 19 28 | | 0 53 | 4 10 |
| S 16 | 2 33 | 25 25 | 5 2 | 8 34 | 3 56 | 16 43 | 1 43 | 3 13 | 0 55 | 7 14 | 1 5 | 2 38 | 2 45 | 4 43 | 0 48 | 18 59 | 0 3 | 20 1 | 3 19 | 15 42 | | 16 7 | | 19 25 | | 0 52 | 4 10 |
| S 17 | 2 10 | 27 8 | 4 39 | 8 26 | 3 56 | 16 33 | 1 37 | 2 57 | 0 55 | 7 18 | 1 5 | 2 36 | 2 45 | 4 44 | 0 48 | 18 59 | 0 3 | 20 1 | 3 19 | 15 42 | | 16 8 | | 19 23 | | 0 51 | 4 10 |
| M18 | 1 47 | 27 28 | 4 3 | 8 14 | 3 54 | 16 22 | 1 32 | 2 41 | 0 54 | 7 23 | 1 4 | 2 34 | 2 45 | 4 45 | 0 48 | 18 59 | 0 3 | 20 1 | 3 19 | 15 43 | | 16 9 | | 19 20 | | 0 50 | 4 10 |
| T 19 | 1 23 | 26 29 | 3 16 | 7 58 | 3 50 | 16 11 | 1 26 | 2 25 | 0 54 | 7 28 | 1 4 | 2 32 | 2 45 | 4 46 | 0 48 | 18 59 | 0 3 | 20 1 | 3 19 | 15 42 | | 16 10 | | 19 18 | | 0 49 | 4 10 |
| W20 | 1 0 | 24 19 | 2 22 | 7 37 | 3 45 | 15 59 | 1 20 | 2 10 | 0 54 | 7 33 | 1 4 | 2 30 | 2 45 | 4 47 | 0 48 | 19 0 | 0 3 | 20 1 | 3 19 | 15 42 | | 16 10 | | 19 15 | | 0 47 | 4 9 |
| T 21 | 0 37 | 21 6 | 1 22 | 7 12 | 3 37 | 15 47 | 1 15 | 1 54 | 0 53 | 7 37 | 1 4 | 2 29 | 2 45 | 4 48 | 0 48 | 19 0 | 0 3 | 20 1 | 3 19 | 15 41 | | 16 11 | | 19 13 | | 0 46 | 4 9 |
| F 22 | 0 13 | 17 2 | 0 19 | 6 42 | 3 28 | 15 35 | 1 9 | 1 38 | 0 53 | 7 42 | 1 4 | 2 27 | 2 45 | 4 49 | 0 48 | 19 0 | 0 3 | 20 1 | 3 19 | 15 41 | | 16 12 | | 19 10 | | 0 45 | 4 9 |
| S 23 | 0s10 | 12 17 | 0n45 | 6 9 | 3 17 | 15 22 | 1 4 | 1 22 | 0 53 | 7 47 | 1 4 | 2 25 | 2 45 | 4 50 | 0 48 | 19 0 | 0 3 | 20 1 | 3 19 | 15 41 | | 16 13 | | 19 8 | | 0 44 | 4 9 |
| S 24 | 0 34 | 7 2 | 1 48 | 5 32 | 3 4 | 15 8 | 0 59 | 1 6 | 0 52 | 7 52 | 1 4 | 2 23 | 2 46 | 4 51 | 0 48 | 19 0 | 0 3 | 20 1 | 3 19 | 15 42 | | 16 14 | | 19 5 | | 0 43 | 4 9 |
| M25 | 0 57 | 1 27 | 2 47 | 4 52 | 2 50 | 14 54 | 0 53 | 0 51 | 0 52 | 7 56 | 1 4 | 2 21 | 2 46 | 4 51 | 0 48 | 19 1 | 0 3 | 20 1 | 3 19 | 15 43 | | 16 15 | | 19 3 | | 0 42 | 4 9 |
| T 26 | 1 21 | 4n16 | 3 39 | 4 10 | 2 33 | 14 40 | 0 48 | 0 35 | 0 52 | 8 1 | 1 4 | 2 19 | 2 46 | 4 52 | 0 48 | 19 1 | 0 3 | 20 1 | 3 19 | 15 45 | | 16 16 | | 19 0 | | 0 40 | 4 9 |
| W27 | 1 44 | 9 54 | 4 21 | 3 26 | 2 15 | 14 25 | 0 43 | 0 19 | 0 51 | 8 6 | 1 4 | 2 17 | 2 46 | 4 53 | 0 48 | 19 1 | 0 3 | 20 1 | 3 19 | 15 47 | | 16 17 | | 18 57 | | 0 39 | 4 9 |
| T 28 | 2 8 | 15 13 | 4 50 | 2 42 | 1 56 | 14 9 | 0 38 | 0 3 | 0 51 | 8 11 | 1 4 | 2 16 | 2 46 | 4 54 | 0 48 | 19 1 | 0 3 | 20 1 | 3 19 | 15 50 | | 16 18 | | 18 55 | | 0 38 | 4 9 |
| F 29 | 2 31 | 19 57 | 5 5 | 1 59 | 1 36 | 13 53 | 0 33 | 0s13 | 0 51 | 8 15 | 1 4 | 2 14 | 2 46 | 4 55 | 0 48 | 19 1 | 0 3 | 20 1 | 3 19 | 15 53 | | 16 19 | | 18 52 | | 0 37 | 4 8 |
| S 30 | 2s55 | 23n46 | 5n 4 | 1s17 | 1s16 | 13n37 | 0s28 | 0s29 | 0n50 | 8s20 | 1n 3 | 2n12 | 2s46 | 4s56 | 0s48 | 19s 1 | 0n 3 | 20n 1 | 3s19 | 15s55 | | 16s20 | | 18s50 | | 0n36 | 4n 8 |

Julian Day Number = 2332354.5, Delta T = 27.43 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'07, Lahiri = 19°18'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## OCTOBER 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 40 56 | 8♎18'14 | 7♊41 | 29°R29 | 23♌33 | 3♎47 | 24♎11 | 11°R53 | 19°R23 | 4°R55 | 6♋26 | 16°R25 | 15♒ 4 | 8♒22 | 21°R53 | S 1 |
| M 2 | 0 44 53 | 9°17'27 | 21°21 | 28♍47 | 24°38 | 4°26 | 24°24 | 11♈49 | 19♓21 | 4♒54 | 6°26 | 16♒21 | 15° 1 | 8°29 | 21♓50 | M 2 |
| T 3 | 0 48 49 | 10°16'42 | 5♋12 | 28°14 | 25°44 | 5° 6 | 24°37 | 11°44 | 19°19 | 4°54 | 6°26 | 16°D20 | 14°58 | 8°36 | 21°47 | T 3 |
| W 4 | 0 52 46 | 11°15'59 | 19°14 | 27°52 | 26°51 | 5°45 | 24°50 | 11°39 | 19°17 | 4°53 | 6°26 | 16°20 | 14°54 | 8°42 | 21°45 | W 4 |
| T 5 | 0 56 43 | 12°15'19 | 3♌25 | 27°41 | 27°57 | 6°24 | 25° 3 | 11°34 | 19°15 | 4°53 | 6°26 | 16°21 | 14°51 | 8°49 | 21°42 | T 5 |
| F 6 | 1 0 39 | 13°14'41 | 17°44 | 27°D40 | 29° 4 | 7° 3 | 25°16 | 11°30 | 19°12 | 4°52 | 6°R26 | 16°R21 | 14°48 | 8°56 | 21°40 | F 6 |
| S 7 | 1 4 36 | 14°14'05 | 2♍10 | 27°50 | 0♍11 | 7°43 | 25°29 | 11°25 | 19°10 | 4°52 | 6°26 | 16°20 | 14°45 | 9° 2 | 21°37 | S 7 |
| S 8 | 1 8 32 | 15°13'32 | 16°38 | 28°11 | 1°18 | 8°22 | 25°42 | 11°20 | 19° 8 | 4°52 | 6°26 | 16°17 | 14°42 | 9° 9 | 21°35 | S 8 |
| M 9 | 1 12 29 | 16°13'01 | 1♎ 3 | 28°41 | 2°25 | 9° 1 | 25°55 | 11°15 | 19° 6 | 4°52 | 6°26 | 16°11 | 14°39 | 9°16 | 21°32 | M 9 |
| T 10 | 1 16 25 | 17°12'31 | 15°19 | 29°21 | 3°33 | 9°41 | 26° 8 | 11°11 | 19° 4 | 4°51 | 6°26 | 16° 2 | 14°35 | 9°22 | 21°30 | T 10 |
| W11 | 1 20 22 | 18°12'04 | 29°21 | 0♎10 | 4°40 | 10°20 | 26°21 | 11° 6 | 19° 2 | 4°51 | 6°26 | 15°52 | 14°32 | 9°29 | 21°27 | W11 |
| T 12 | 1 24 18 | 19°11'39 | 13♏ 4 | 1° 6 | 5°48 | 11° 0 | 26°34 | 11° 1 | 19° 0 | 4°51 | 6°26 | 15°41 | 14°29 | 9°36 | 21°25 | T 12 |
| F 13 | 1 28 15 | 20°11'16 | 26°24 | 2° 9 | 6°56 | 11°39 | 26°47 | 10°57 | 18°58 | 4°51 | 6°26 | 15°31 | 14°26 | 9°42 | 21°22 | F 13 |
| S 14 | 1 32 12 | 21°10'55 | 9♐22 | 3°18 | 8° 5 | 12°19 | 27° 0 | 10°52 | 18°56 | 4°51 | 6°26 | 15°22 | 14°23 | 9°49 | 21°20 | S 14 |
| S 15 | 1 36 8 | 22°10'36 | 21°58 | 4°32 | 9°13 | 12°58 | 27°13 | 10°47 | 18°54 | 4°51 | 6°26 | 15°16 | 14°20 | 9°56 | 21°18 | S 15 |
| M16 | 1 40 5 | 23°10'18 | 4♑14 | 5°51 | 10°22 | 13°38 | 27°26 | 10°43 | 18°52 | 4°D51 | 6°25 | 15°12 | 14°16 | 10° 2 | 21°15 | M16 |
| T 17 | 1 44 1 | 24°10'03 | 16°16 | 7°14 | 11°31 | 14°17 | 27°39 | 10°38 | 18°51 | 4°51 | 6°25 | 15°10 | 14°13 | 10° 9 | 21°13 | T 17 |
| W18 | 1 47 58 | 25° 9'49 | 28° 8 | 8°41 | 12°40 | 14°57 | 27°52 | 10°34 | 18°49 | 4°51 | 6°25 | 15°D10 | 14°10 | 10°15 | 21°11 | W18 |
| T 19 | 1 51 54 | 26° 9'36 | 9♒56 | 10°10 | 13°49 | 15°37 | 28° 5 | 10°29 | 18°47 | 4°51 | 6°25 | 15°R10 | 14° 7 | 10°22 | 21° 9 | T 19 |
| F 20 | 1 55 51 | 27° 9'25 | 21°46 | 11°42 | 14°58 | 16°16 | 28°18 | 10°25 | 18°45 | 4°51 | 6°24 | 15°10 | 14° 4 | 10°29 | 21° 7 | F 20 |
| S 21 | 1 59 47 | 28° 9'16 | 3♓41 | 13°15 | 16° 8 | 16°56 | 28°32 | 10°20 | 18°44 | 4°51 | 6°24 | 15° 8 | 14° 0 | 10°35 | 21° 5 | S 21 |
| S 22 | 2 3 44 | 29° 9'09 | 15°48 | 14°50 | 17°18 | 17°36 | 28°45 | 10°16 | 18°42 | 4°51 | 6°24 | 15° 4 | 13°57 | 10°42 | 21° 2 | S 22 |
| M23 | 2 7 41 | 0♏ 9'04 | 28°10 | 16°26 | 18°27 | 18°16 | 28°58 | 10°12 | 18°40 | 4°51 | 6°23 | 14°58 | 13°54 | 10°49 | 21° 0 | M23 |
| T 24 | 2 11 37 | 1° 9'00 | 10♈48 | 18° 3 | 19°37 | 18°55 | 29°11 | 10° 7 | 18°39 | 4°52 | 6°23 | 14°49 | 13°51 | 10°55 | 20°58 | T 24 |
| W25 | 2 15 34 | 2° 8'58 | 23°45 | 19°41 | 20°47 | 19°35 | 29°24 | 10° 3 | 18°37 | 4°52 | 6°22 | 14°37 | 13°48 | 11° 2 | 20°57 | W25 |
| T 26 | 2 19 30 | 3° 8'58 | 6♉59 | 21°19 | 21°58 | 20°15 | 29°37 | 9°59 | 18°36 | 4°52 | 6°22 | 14°24 | 13°45 | 11° 9 | 20°55 | T 26 |
| F 27 | 2 23 27 | 4° 9'00 | 20°30 | 22°58 | 23° 8 | 20°55 | 29°50 | 9°55 | 18°34 | 4°53 | 6°21 | 14°12 | 13°41 | 11°15 | 20°53 | F 27 |
| S 28 | 2 27 23 | 5° 9'04 | 4♊12 | 24°37 | 24°19 | 21°35 | 0♏ 3 | 9°51 | 18°33 | 4°53 | 6°21 | 14° 0 | 13°38 | 11°22 | 20°51 | S 28 |
| S 29 | 2 31 20 | 6° 9'10 | 18° 5 | 26°16 | 25°29 | 22°15 | 0°16 | 9°47 | 18°31 | 4°53 | 6°20 | 13°51 | 13°35 | 11°29 | 20°49 | S 29 |
| M30 | 2 35 16 | 7° 9'18 | 2♋ 3 | 27°54 | 26°40 | 22°55 | 0°30 | 9°43 | 18°30 | 4°54 | 6°20 | 13°45 | 13°32 | 11°35 | 20°47 | M30 |
| T 31 | 2 39 13 | 8♏ 9'28 | 16♋ 6 | 29♎33 | 27♍51 | 23♎35 | 0♏43 | 9♈39 | 18♓29 | 4♒54 | 6♋19 | 13♒41 | 13♒29 | 11♒42 | 20♓46 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 3s18 | 26n20 | 4n46 | 0s39 | 0s56 | 13n20 | 0s23 | 0s45 | 0n50 | 8s25 | 1n 3 | 2n10 | 2s46 | 4s57 | 0s48 | 19s 1 | 0n 3 | 20n 1 | 3s19 | 15s57 | 16s21 | 18s47 | 0n34 | 4n 8 | |
| M 2 | 3 41 | 27 23 | 4 12 | 0 3 | 0 35 | 13 3 | 0 18 | 1 1 | 0 49 | 8 30 | 1 3 | 2 8 | 2 46 | 4 58 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 15 58 | 16 22 | 18 44 | 0 33 | 4 8 | |
| T 3 | 4 5 | 26 45 | 3 22 | 0n28 | 0 16 | 12 46 | 0 13 | 1 17 | 0 49 | 8 34 | 1 3 | 2 6 | 2 46 | 4 58 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 15 58 | 16 23 | 18 42 | 0 32 | 4 8 | |
| W 4 | 4 28 | 24 25 | 2 20 | 0 54 | 0n 3 | 12 28 | 0 8 | 1 33 | 0 49 | 8 39 | 1 3 | 2 4 | 2 46 | 4 59 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 15 58 | 16 24 | 18 39 | 0 31 | 4 8 | |
| T 5 | 4 51 | 20 33 | 1 9 | 1 15 | 0 21 | 12 9 | 0 4 | 1 48 | 0 48 | 8 44 | 1 3 | 2 2 | 2 46 | 5 0 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 15 58 | 16 25 | 18 37 | 0 30 | 4 8 | |
| F 6 | 5 14 | 15 26 | 0s 7 | 1 30 | 0 37 | 11 50 | 0n 1 | 2 4 | 0 48 | 8 49 | 1 3 | 2 1 | 2 46 | 5 1 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 15 58 | 16 25 | 18 34 | 0 29 | 4 7 | |
| S 7 | 5 37 | 9 25 | 1 24 | 1 40 | 0 52 | 11 31 | 0 6 | 2 20 | 0 48 | 8 54 | 1 3 | 1 59 | 2 46 | 5 2 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 15 58 | 16 26 | 18 31 | 0 27 | 4 7 | |
| S 8 | 6 0 | 2 55 | 2 35 | 1 44 | 1 6 | 11 11 | 0 10 | 2 36 | 0 47 | 8 58 | 1 3 | 1 57 | 2 46 | 5 3 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 15 59 | 16 27 | 18 29 | 0 26 | 4 7 | |
| M 9 | 6 23 | 3s42 | 3 35 | 1 43 | 1 18 | 10 51 | 0 14 | 2 52 | 0 47 | 9 3 | 1 3 | 1 55 | 2 46 | 5 3 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 16 1 | 16 28 | 18 26 | 0 25 | 4 7 | |
| T 10 | 6 46 | 10 4 | 4 22 | 1 36 | 1 28 | 10 31 | 0 19 | 3 8 | 0 46 | 9 8 | 1 3 | 1 53 | 2 46 | 5 4 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 16 4 | 16 29 | 18 24 | 0 24 | 4 7 | |
| W11 | 7 9 | 15 48 | 4 51 | 1 25 | 1 37 | 10 10 | 0 23 | 3 24 | 0 46 | 9 13 | 1 3 | 1 51 | 2 46 | 5 5 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 16 7 | 16 30 | 18 21 | 0 23 | 4 7 | |
| T 12 | 7 32 | 20 36 | 5 3 | 1 10 | 1 45 | 9 49 | 0 27 | 3 40 | 0 46 | 9 17 | 1 3 | 1 50 | 2 46 | 5 6 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 16 10 | 16 31 | 18 18 | 0 22 | 4 6 | |
| F 13 | 7 54 | 24 13 | 4 58 | 0 51 | 1 51 | 9 28 | 0 31 | 3 55 | 0 45 | 9 22 | 1 3 | 1 48 | 2 46 | 5 6 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 13 | 16 32 | 18 16 | 0 21 | 4 6 | |
| S 14 | 8 17 | 26 28 | 4 38 | 0 28 | 1 56 | 9 6 | 0 35 | 4 11 | 0 45 | 9 27 | 1 3 | 1 46 | 2 46 | 5 7 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 15 | 16 33 | 18 13 | 0 20 | 4 6 | |
| S 15 | 8 39 | 27 18 | 4 4 | 0 1 | 1 59 | 8 44 | 0 39 | 4 27 | 0 44 | 9 32 | 1 3 | 1 44 | 2 46 | 5 8 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 17 | 16 34 | 18 11 | 0 19 | 4 6 | |
| M16 | 9 1 | 26 45 | 3 20 | 0s28 | 2 2 | 8 21 | 0 43 | 4 43 | 0 44 | 9 36 | 1 3 | 1 42 | 2 46 | 5 9 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 19 | 16 35 | 18 8 | 0 17 | 4 6 | |
| T 17 | 9 23 | 24 56 | 2 28 | 0 59 | 2 3 | 7 58 | 0 46 | 4 59 | 0 44 | 9 41 | 1 2 | 1 41 | 2 46 | 5 9 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 19 | 16 36 | 18 5 | 0 16 | 4 5 | |
| W18 | 9 45 | 22 2 | 1 29 | 1 33 | 2 4 | 7 35 | 0 50 | 5 14 | 0 43 | 9 46 | 1 2 | 1 39 | 2 46 | 5 10 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 19 | 16 37 | 18 3 | 0 15 | 4 5 | |
| T 19 | 10 7 | 18 14 | 0 28 | 2 9 | 2 3 | 7 12 | 0 54 | 5 30 | 0 43 | 9 51 | 1 2 | 1 37 | 2 45 | 5 11 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 19 | 16 37 | 18 0 | 0 14 | 4 5 | |
| F 20 | 10 29 | 13 44 | 0n35 | 2 46 | 2 2 | 6 48 | 0 57 | 5 46 | 0 42 | 9 55 | 1 2 | 1 36 | 2 45 | 5 11 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 19 | 16 38 | 17 57 | 0 13 | 4 5 | |
| S 21 | 10 50 | 8 40 | 1 37 | 3 24 | 2 0 | 6 24 | 1 0 | 6 1 | 0 42 | 10 0 | 1 2 | 1 34 | 2 45 | 5 12 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 20 | 16 39 | 17 55 | 0 12 | 4 5 | |
| S 22 | 11 12 | 3 14 | 2 35 | 4 3 | 1 58 | 6 0 | 1 4 | 6 17 | 0 42 | 10 5 | 1 2 | 1 32 | 2 45 | 5 13 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 21 | 16 40 | 17 52 | 0 11 | 4 4 | |
| M23 | 11 33 | 2n26 | 3 27 | 4 43 | 1 54 | 5 36 | 1 7 | 6 32 | 0 41 | 10 9 | 1 2 | 1 31 | 2 45 | 5 13 | 0 48 | 19 3 | 0 3 | 20 1 | 3 19 | 16 23 | 16 41 | 17 49 | 0 10 | 4 4 | |
| T 24 | 11 54 | 8 7 | 4 10 | 5 23 | 1 51 | 5 11 | 1 10 | 6 48 | 0 41 | 10 14 | 1 2 | 1 29 | 2 45 | 5 14 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 16 25 | 16 42 | 17 47 | 0 9 | 4 4 | |
| W25 | 12 15 | 13 35 | 4 41 | 6 4 | 1 47 | 4 46 | 1 13 | 7 3 | 0 40 | 10 19 | 1 2 | 1 28 | 2 45 | 5 14 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 16 29 | 16 43 | 17 44 | 0 8 | 4 4 | |
| T 26 | 12 35 | 18 34 | 4 58 | 6 45 | 1 42 | 4 21 | 1 16 | 7 19 | 0 40 | 10 23 | 1 2 | 1 26 | 2 45 | 5 15 | 0 48 | 19 2 | 0 3 | 20 1 | 3 19 | 16 32 | 16 44 | 17 41 | 0 7 | 4 4 | |
| F 27 | 12 56 | 22 42 | 4 59 | 7 26 | 1 37 | 3 56 | 1 18 | 7 34 | 0 39 | 10 28 | 1 2 | 1 25 | 2 45 | 5 15 | 0 47 | 19 2 | 0 3 | 20 1 | 3 20 | 16 36 | 16 45 | 17 39 | 0 6 | 4 3 | |
| S 28 | 13 16 | 25 39 | 4 42 | 8 8 | 1 32 | 3 30 | 1 21 | 7 50 | 0 39 | 10 33 | 1 2 | 1 23 | 2 45 | 5 16 | 0 47 | 19 2 | 0 3 | 20 1 | 3 20 | 16 39 | 16 46 | 17 36 | 0 5 | 4 3 | |
| S 29 | 13 36 | 27 5 | 4 9 | 8 49 | 1 26 | 3 5 | 1 24 | 8 5 | 0 38 | 10 37 | 1 2 | 1 22 | 2 44 | 5 17 | 0 47 | 19 2 | 0 3 | 20 1 | 3 20 | 16 42 | 16 47 | 17 33 | 0 5 | 4 3 | |
| M30 | 13 56 | 26 49 | 3 21 | 9 30 | 1 21 | 2 39 | 1 26 | 8 20 | 0 38 | 10 42 | 1 2 | 1 20 | 2 44 | 5 17 | 0 47 | 19 2 | 0 3 | 20 1 | 3 20 | 16 44 | 16 48 | 17 31 | 0 4 | 4 3 | |
| T 31 | 14s15 | 24n50 | 2n20 | 10s10 | 1n15 | 2n13 | 1n29 | 8s35 | 0n38 | 10s46 | 1n 2 | 1n19 | 2s44 | 5s18 | 0s47 | 19s 2 | 0n 3 | 20n 1 | 3s20 | 16s45 | 16s48 | 17s28 | 0n 3 | 4n 2 | |

Julian Day Number = 2332384.5, Delta T = 27.38 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'11, Lahiri = 19°18'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## NOVEMBER 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 43 10 | 9♏ 9'40 | 0♌10 | 1♏12 | 29♍ 2 | 24♎15 | 0♏56 | 9°R35 | 18°R27 | 4♒55 | 6°R19 | 13°R40 | 13♒26 | 11♒48 | 20°R44 | W 1 |
| T 2 | 2 47 6 | 10° 9'55 | 14°15 | 2°50 | 0♎13 | 24°55 | 1° 9 | 9♈31 | 18♓26 | 4°55 | 6♋18 | 13♒40 | 13°22 | 11°55 | 20♓43 | T 2 |
| F 3 | 2 51 3 | 11°10'11 | 28°20 | 4°29 | 1°25 | 25°35 | 1°22 | 9°28 | 18°25 | 4°56 | 6°18 | 13°39 | 13°19 | 12° 2 | 20°41 | F 3 |
| S 4 | 2 54 59 | 12°10'29 | 12♍24 | 6° 7 | 2°36 | 26°15 | 1°35 | 9°24 | 18°24 | 4°57 | 6°17 | 13°37 | 13°16 | 12° 8 | 20°40 | S 4 |
| S 5 | 2 58 56 | 13°10'50 | 26°27 | 7°44 | 3°48 | 26°55 | 1°48 | 9°21 | 18°23 | 4°57 | 6°16 | 13°33 | 13°13 | 12°15 | 20°38 | S 5 |
| M 6 | 3 2 52 | 14°11'12 | 10♎25 | 9°22 | 4°59 | 27°36 | 2° 1 | 9°17 | 18°22 | 4°58 | 6°16 | 13°25 | 13°10 | 12°22 | 20°37 | M 6 |
| T 7 | 3 6 49 | 15°11'36 | 24°15 | 10°59 | 6°11 | 28°16 | 2°14 | 9°14 | 18°21 | 4°59 | 6°15 | 13°15 | 13° 6 | 12°28 | 20°35 | T 7 |
| W 8 | 3 10 45 | 16°12'02 | 7♏55 | 12°36 | 7°23 | 28°56 | 2°27 | 9°10 | 18°20 | 4°59 | 6°14 | 13° 2 | 13° 3 | 12°35 | 20°34 | W 8 |
| T 9 | 3 14 42 | 17°12'30 | 21°20 | 14°12 | 8°35 | 29°37 | 2°40 | 9° 7 | 18°19 | 5° 0 | 6°14 | 12°49 | 13° 0 | 12°42 | 20°33 | T 9 |
| F 10 | 3 18 39 | 18°12'59 | 4♐28 | 15°49 | 9°47 | 0♏17 | 2°53 | 9° 4 | 18°18 | 5° 1 | 6°13 | 12°36 | 12°57 | 12°48 | 20°32 | F 10 |
| S 11 | 3 22 35 | 19°13'30 | 17°18 | 17°25 | 10°59 | 0°57 | 3° 6 | 9° 1 | 18°17 | 5° 2 | 6°12 | 12°25 | 12°54 | 12°55 | 20°30 | S 11 |
| S 12 | 3 26 32 | 20°14'03 | 29°49 | 19° 1 | 12°12 | 1°38 | 3°18 | 8°58 | 18°16 | 5° 3 | 6°11 | 12°16 | 12°51 | 13° 2 | 20°29 | S 12 |
| M13 | 3 30 28 | 21°14'36 | 12♑ 3 | 20°36 | 13°24 | 2°18 | 3°31 | 8°55 | 18°16 | 5° 3 | 6°10 | 12°10 | 12°47 | 13° 8 | 20°28 | M13 |
| T 14 | 3 34 25 | 22°15'12 | 24° 4 | 22°11 | 14°36 | 2°59 | 3°44 | 8°52 | 18°15 | 5° 4 | 6°10 | 12° 6 | 12°44 | 13°15 | 20°27 | T 14 |
| W15 | 3 38 21 | 23°15'48 | 5♒56 | 23°46 | 15°49 | 3°39 | 3°57 | 8°50 | 18°14 | 5° 5 | 6° 9 | 12° 5 | 12°41 | 13°22 | 20°26 | W15 |
| T 16 | 3 42 18 | 24°16'25 | 17°43 | 25°21 | 17° 1 | 4°20 | 4°10 | 8°47 | 18°14 | 5° 6 | 6° 8 | 12°D 5 | 12°38 | 13°28 | 20°26 | T 16 |
| F 17 | 3 46 14 | 25°17'04 | 29°32 | 26°56 | 18°14 | 5° 0 | 4°22 | 8°44 | 18°13 | 5° 7 | 6° 7 | 12°R 5 | 12°35 | 13°35 | 20°25 | F 17 |
| S 18 | 3 50 11 | 26°17'44 | 11♓28 | 28°30 | 19°27 | 5°41 | 4°35 | 8°42 | 18°13 | 5° 9 | 6° 6 | 12° 4 | 12°32 | 13°41 | 20°24 | S 18 |
| S 19 | 3 54 8 | 27°18'25 | 23°36 | 0♐ 4 | 20°40 | 6°21 | 4°48 | 8°40 | 18°12 | 5°10 | 6° 5 | 12° 1 | 12°28 | 13°48 | 20°23 | S 19 |
| M20 | 3 58 4 | 28°19'07 | 6♈ 1 | 1°38 | 21°53 | 7° 2 | 5° 0 | 8°37 | 18°12 | 5°11 | 6° 4 | 11°55 | 12°25 | 13°55 | 20°23 | M20 |
| T 21 | 4 2 1 | 29°19'50 | 18°46 | 3°12 | 23° 6 | 7°43 | 5°13 | 8°35 | 18°12 | 5°12 | 6° 3 | 11°47 | 12°22 | 14° 1 | 20°22 | T 21 |
| W22 | 4 5 57 | 0♐20'34 | 1♉54 | 4°46 | 24°19 | 8°23 | 5°25 | 8°33 | 18°11 | 5°13 | 6° 2 | 11°37 | 12°19 | 14° 8 | 20°22 | W22 |
| T 23 | 4 9 54 | 1°21'20 | 15°25 | 6°20 | 25°32 | 9° 4 | 5°38 | 8°31 | 18°11 | 5°14 | 6° 1 | 11°25 | 12°16 | 14°15 | 20°21 | T 23 |
| F 24 | 4 13 50 | 2°22'07 | 29°17 | 7°54 | 26°45 | 9°45 | 5°50 | 8°30 | 18°11 | 5°16 | 6° 0 | 11°13 | 12°12 | 14°21 | 20°21 | F 24 |
| S 25 | 4 17 47 | 3°22'55 | 13♊26 | 9°27 | 27°58 | 10°26 | 6° 3 | 8°28 | 18°11 | 5°17 | 5°59 | 11° 3 | 12° 9 | 14°28 | 20°20 | S 25 |
| S 26 | 4 21 43 | 4°23'44 | 27°46 | 11° 1 | 29°12 | 11° 7 | 6°15 | 8°26 | 18°11 | 5°18 | 5°58 | 10°54 | 12° 6 | 14°35 | 20°20 | S 26 |
| M27 | 4 25 40 | 5°24'35 | 12♋11 | 12°34 | 0♏25 | 11°47 | 6°27 | 8°25 | 18°D11 | 5°19 | 5°57 | 10°48 | 12° 3 | 14°41 | 20°20 | M27 |
| T 28 | 4 29 37 | 6°25'27 | 26°37 | 14° 7 | 1°38 | 12°28 | 6°40 | 8°23 | 18°11 | 5°21 | 5°56 | 10°45 | 12° 0 | 14°48 | 20°20 | T 28 |
| W29 | 4 33 33 | 7°26'20 | 10♌57 | 15°41 | 2°52 | 13° 9 | 6°52 | 8°22 | 18°11 | 5°22 | 5°55 | 10°D44 | 11°57 | 14°55 | 20°19 | W29 |
| T 30 | 4 37 30 | 8♐27'14 | 25♌11 | 17♐14 | 4♏ 6 | 13♏50 | 7♏ 4 | 8♈21 | 18♓11 | 5♒24 | 5♋54 | 10♒45 | 11♒53 | 15♒ 1 | 20♓19 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14s34 | 21n18 | 1n11 | 10s50 | 1n 9 | 1n46 | 1n31 | 8s51 | 0n37 | 10s51 | 1n 2 | 1n18 | 2s44 | 5s18 | 0s47 | 19s 2 | 0n 3 | 20n 1 | 3s20 | 16s45 | 16s49 | 17s25 | 0n 2 | 4n 2 |
| T 2 | 14 54 | 16 32 | 0s 3 | 11 30 | 1 2 | 1 20 | 1 33 | 9 6 | 0 37 | 10 55 | 1 2 | 1 16 | 2 44 | 5 18 | 0 47 | 19 2 | 0 3 | 20 1 | 3 20 | 16 45 | 16 50 | 17 22 | 0 1 | 4 2 |
| F 3 | 15 12 | 10 53 | 1 17 | 12 10 | 0 56 | 0 54 | 1 35 | 9 21 | 0 36 | 11 0 | 1 2 | 1 15 | 2 44 | 5 19 | 0 47 | 19 2 | 0 3 | 20 1 | 3 20 | 16 45 | 16 51 | 17 20 | 0 0 | 4 2 |
| S 4 | 15 31 | 4 41 | 2 26 | 12 48 | 0 49 | 0 27 | 1 37 | 9 36 | 0 36 | 11 4 | 1 2 | 1 14 | 2 44 | 5 19 | 0 47 | 19 1 | 0 3 | 20 1 | 3 20 | 16 46 | 16 52 | 17 17 | 0s 1 | 4 1 |
| S 5 | 15 49 | 1s43 | 3 25 | 13 27 | 0 43 | 0 0 | 1 39 | 9 51 | 0 35 | 11 9 | 1 2 | 1 12 | 2 43 | 5 20 | 0 47 | 19 1 | 0 3 | 20 1 | 3 20 | 16 47 | 16 53 | 17 14 | 0 1 | 4 1 |
| M 6 | 16 8 | 8 0 | 4 12 | 14 4 | 0 36 | 0s27 | 1 41 | 10 6 | 0 35 | 11 13 | 1 2 | 1 11 | 2 43 | 5 20 | 0 47 | 19 1 | 0 3 | 20 1 | 3 20 | 16 49 | 16 54 | 17 12 | 0 2 | 4 1 |
| T 7 | 16 25 | 13 49 | 4 44 | 14 41 | 0 29 | 0 53 | 1 43 | 10 21 | 0 34 | 11 18 | 1 2 | 1 10 | 2 43 | 5 20 | 0 47 | 19 1 | 0 3 | 20 1 | 3 20 | 16 52 | 16 55 | 17 9 | 0 3 | 4 1 |
| W 8 | 16 43 | 18 53 | 4 59 | 15 17 | 0 23 | 1 20 | 1 44 | 10 35 | 0 34 | 11 22 | 1 2 | 1 9 | 2 43 | 5 21 | 0 47 | 19 1 | 0 3 | 20 1 | 3 20 | 16 56 | 16 56 | 17 6 | 0 4 | 4 0 |
| T 9 | 17 0 | 22 54 | 4 57 | 15 53 | 0 16 | 1 47 | 1 46 | 10 50 | 0 33 | 11 27 | 1 2 | 1 8 | 2 43 | 5 21 | 0 47 | 19 1 | 0 3 | 20 1 | 3 20 | 17 0 | 16 57 | 17 3 | 0 4 | 4 0 |
| F 10 | 17 17 | 25 38 | 4 39 | 16 27 | 0 9 | 2 14 | 1 47 | 11 5 | 0 33 | 11 31 | 1 2 | 1 7 | 2 42 | 5 21 | 0 47 | 19 0 | 0 3 | 20 1 | 3 20 | 17 3 | 16 57 | 17 1 | 0 5 | 4 0 |
| S 11 | 17 34 | 26 58 | 4 7 | 17 1 | 0 2 | 2 42 | 1 48 | 11 19 | 0 32 | 11 36 | 1 2 | 1 6 | 2 42 | 5 22 | 0 47 | 19 0 | 0 2 | 20 1 | 3 20 | 17 7 | 16 58 | 16 58 | 0 6 | 4 0 |
| S 12 | 17 50 | 26 53 | 3 24 | 17 34 | 0s 4 | 3 9 | 1 50 | 11 34 | 0 32 | 11 40 | 1 2 | 1 5 | 2 42 | 5 22 | 0 47 | 19 0 | 0 2 | 20 1 | 3 20 | 17 9 | 16 59 | 16 55 | 0 7 | 3 59 |
| M13 | 18 6 | 25 27 | 2 32 | 18 7 | 0 11 | 3 36 | 1 51 | 11 48 | 0 31 | 11 44 | 1 2 | 1 4 | 2 42 | 5 22 | 0 47 | 19 0 | 0 2 | 20 1 | 3 20 | 17 11 | 17 0 | 16 52 | 0 7 | 3 59 |
| T 14 | 18 22 | 22 53 | 1 34 | 18 38 | 0 18 | 4 3 | 1 52 | 12 2 | 0 31 | 11 49 | 1 2 | 1 3 | 2 42 | 5 22 | 0 47 | 19 0 | 0 2 | 20 1 | 3 20 | 17 12 | 17 1 | 16 50 | 0 8 | 3 59 |
| W15 | 18 37 | 19 21 | 0 33 | 19 8 | 0 24 | 4 30 | 1 53 | 12 17 | 0 30 | 11 53 | 1 2 | 1 2 | 2 41 | 5 23 | 0 47 | 18 59 | 0 2 | 20 1 | 3 20 | 17 12 | 17 2 | 16 47 | 0 8 | 3 58 |
| T 16 | 18 52 | 15 4 | 0n30 | 19 38 | 0 31 | 4 57 | 1 54 | 12 31 | 0 30 | 11 57 | 1 2 | 1 1 | 2 41 | 5 23 | 0 47 | 18 59 | 0 2 | 20 1 | 3 20 | 17 12 | 17 3 | 16 44 | 0 9 | 3 58 |
| F 17 | 19 7 | 10 14 | 1 31 | 20 7 | 0 37 | 5 24 | 1 54 | 12 45 | 0 29 | 12 1 | 1 2 | 1 0 | 2 41 | 5 23 | 0 47 | 18 59 | 0 2 | 20 1 | 3 20 | 17 12 | 17 4 | 16 42 | 0 10 | 3 58 |
| S 18 | 19 22 | 4 59 | 2 29 | 20 34 | 0 43 | 5 51 | 1 55 | 12 59 | 0 29 | 12 6 | 1 2 | 1 0 | 2 41 | 5 23 | 0 47 | 18 59 | 0 2 | 20 1 | 3 20 | 17 12 | 17 5 | 16 39 | 0 10 | 3 58 |
| S 19 | 19 36 | 0n32 | 3 22 | 21 1 | 0 50 | 6 18 | 1 55 | 13 13 | 0 28 | 12 10 | 1 2 | 0 59 | 2 41 | 5 23 | 0 47 | 18 58 | 0 2 | 20 1 | 3 20 | 17 13 | 17 6 | 16 36 | 0 11 | 3 57 |
| M20 | 19 49 | 6 9 | 4 5 | 21 26 | 0 56 | 6 45 | 1 56 | 13 27 | 0 28 | 12 14 | 1 2 | 0 58 | 2 40 | 5 23 | 0 47 | 18 58 | 0 2 | 20 1 | 3 20 | 17 15 | 17 6 | 16 33 | 0 11 | 3 57 |
| T 21 | 20 3 | 11 39 | 4 38 | 21 51 | 1 2 | 7 12 | 1 56 | 13 40 | 0 27 | 12 18 | 1 2 | 0 58 | 2 40 | 5 23 | 0 47 | 18 58 | 0 2 | 20 1 | 3 20 | 17 17 | 17 7 | 16 30 | 0 12 | 3 57 |
| W22 | 20 16 | 16 49 | 4 58 | 22 14 | 1 8 | 7 38 | 1 57 | 13 54 | 0 27 | 12 22 | 1 2 | 0 57 | 2 40 | 5 24 | 0 47 | 18 58 | 0 2 | 20 1 | 3 20 | 17 20 | 17 8 | 16 28 | 0 12 | 3 57 |
| T 23 | 20 28 | 21 17 | 5 1 | 22 36 | 1 13 | 8 5 | 1 57 | 14 8 | 0 26 | 12 27 | 1 2 | 0 56 | 2 40 | 5 24 | 0 46 | 18 57 | 0 2 | 20 1 | 3 20 | 17 23 | 17 9 | 16 25 | 0 13 | 3 56 |
| F 24 | 20 40 | 24 43 | 4 47 | 22 58 | 1 19 | 8 31 | 1 57 | 14 21 | 0 26 | 12 31 | 1 2 | 0 56 | 2 39 | 5 24 | 0 46 | 18 57 | 0 2 | 20 1 | 3 20 | 17 26 | 17 10 | 16 22 | 0 13 | 3 56 |
| S 25 | 20 52 | 26 41 | 4 16 | 23 18 | 1 24 | 8 57 | 1 57 | 14 34 | 0 25 | 12 35 | 1 2 | 0 55 | 2 39 | 5 24 | 0 46 | 18 57 | 0 2 | 20 1 | 3 20 | 17 29 | 17 11 | 16 19 | 0 13 | 3 56 |
| S 26 | 21 4 | 26 56 | 3 28 | 23 36 | 1 29 | 9 23 | 1 57 | 14 48 | 0 25 | 12 39 | 1 2 | 0 55 | 2 39 | 5 24 | 0 46 | 18 56 | 0 2 | 20 2 | 3 20 | 17 32 | 17 12 | 16 17 | 0 14 | 3 55 |
| M27 | 21 15 | 25 21 | 2 26 | 23 54 | 1 34 | 9 49 | 1 56 | 15 1 | 0 24 | 12 43 | 1 3 | 0 55 | 2 39 | 5 24 | 0 46 | 18 56 | 0 2 | 20 2 | 3 20 | 17 33 | 17 13 | 16 14 | 0 14 | 3 55 |
| T 28 | 21 25 | 22 6 | 1 15 | 24 10 | 1 39 | 10 15 | 1 56 | 15 14 | 0 24 | 12 47 | 1 3 | 0 54 | 2 38 | 5 24 | 0 46 | 18 56 | 0 2 | 20 2 | 3 20 | 17 34 | 17 14 | 16 11 | 0 14 | 3 55 |
| W29 | 21 35 | 17 30 | 0s 1 | 24 26 | 1 44 | 10 40 | 1 56 | 15 27 | 0 23 | 12 51 | 1 3 | 0 54 | 2 38 | 5 24 | 0 46 | 18 55 | 0 2 | 20 2 | 3 19 | 17 34 | 17 14 | 16 8 | 0 15 | 3 55 |
| T 30 | 21s45 | 11n57 | 1s16 | 24s39 | 1s48 | 11s 6 | 1n55 | 15s40 | 0n23 | 12s55 | 1n 3 | 0n54 | 2s38 | 5s23 | 0s46 | 18s55 | 0n 2 | 20n 2 | 3s19 | 17s34 | 17s15 | 16s 5 | 0s15 | 3n54 |

Julian Day Number = 2332415.5, Delta T = 27.33 sec
Ecliptic obliquity = 23°29'01, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'15, Lahiri = 19°18'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1673
# geocentric

## DECEMBER 1673 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 41 26 | 9♐28'10 | 9♍16 | 18♐47 | 5♏19 | 14♏31 | 7♏16 | 8°R20 | 18♓11 | 5♒25 | 5°R53 | 10°R45 | 11♒50 | 15♒ 8 | 20°D19 | F 1 |
| S 2 | 4 45 23 | 10°29'07 | 23°11 | 20°20 | 6°33 | 15°12 | 7°28 | 8♈19 | 18°11 | 5°27 | 5♋52 | 10♒45 | 11°47 | 15°14 | 20♓19 | S 2 |
| S 3 | 4 49 19 | 11°30'06 | 6♎57 | 21°54 | 7°47 | 15°53 | 7°40 | 8°18 | 18°12 | 5°28 | 5°51 | 10°42 | 11°44 | 15°21 | 20°19 | S 3 |
| M 4 | 4 53 16 | 12°31'05 | 20°33 | 23°27 | 9° 0 | 16°35 | 7°52 | 8°17 | 18°12 | 5°30 | 5°50 | 10°36 | 11°41 | 15°28 | 20°20 | M 4 |
| T 5 | 4 57 12 | 13°32'06 | 3♏58 | 25° 0 | 10°14 | 17°16 | 8° 4 | 8°16 | 18°12 | 5°31 | 5°49 | 10°28 | 11°38 | 15°34 | 20°20 | T 5 |
| W 6 | 5 1 9 | 14°33'08 | 17°12 | 26°33 | 11°28 | 17°57 | 8°16 | 8°16 | 18°13 | 5°33 | 5°48 | 10°19 | 11°34 | 15°41 | 20°20 | W 6 |
| T 7 | 5 5 6 | 15°34'11 | 0♑14 | 28° 5 | 12°42 | 18°38 | 8°28 | 8°15 | 18°13 | 5°34 | 5°46 | 10° 8 | 11°31 | 15°48 | 20°20 | T 7 |
| F 8 | 5 9 2 | 16°35'14 | 13° 2 | 29°38 | 13°56 | 19°19 | 8°39 | 8°15 | 18°14 | 5°36 | 5°45 | 9°58 | 11°28 | 15°54 | 20°21 | F 8 |
| S 9 | 5 12 59 | 17°36'19 | 25°36 | 1♑10 | 15°10 | 20° 1 | 8°51 | 8°15 | 18°14 | 5°38 | 5°44 | 9°49 | 11°25 | 16° 1 | 20°21 | S 9 |
| S 10 | 5 16 55 | 18°37'24 | 7♑57 | 2°43 | 16°24 | 20°42 | 9° 2 | 8°15 | 18°15 | 5°39 | 5°43 | 9°42 | 11°22 | 16° 8 | 20°22 | S 10 |
| M11 | 5 20 52 | 19°38'30 | 20° 4 | 4°14 | 17°38 | 21°23 | 9°14 | 8°D15 | 18°16 | 5°41 | 5°42 | 9°38 | 11°18 | 16°14 | 20°22 | M11 |
| T 12 | 5 24 48 | 20°39'36 | 2♒ 2 | 5°46 | 18°52 | 22° 5 | 9°25 | 8°15 | 18°16 | 5°43 | 5°41 | 9°35 | 11°15 | 16°21 | 20°23 | T 12 |
| W13 | 5 28 45 | 21°40'43 | 13°52 | 7°16 | 20° 7 | 22°46 | 9°37 | 8°15 | 18°17 | 5°44 | 5°39 | 9°D35 | 11°12 | 16°28 | 20°24 | W13 |
| T 14 | 5 32 42 | 22°41'50 | 25°38 | 8°47 | 21°21 | 23°28 | 9°48 | 8°15 | 18°18 | 5°46 | 5°38 | 9°36 | 11° 9 | 16°34 | 20°24 | T 14 |
| F 15 | 5 36 38 | 23°42'57 | 7♓26 | 10°16 | 22°35 | 24° 9 | 9°59 | 8°16 | 18°19 | 5°48 | 5°37 | 9°38 | 11° 6 | 16°41 | 20°25 | F 15 |
| S 16 | 5 40 35 | 24°44'05 | 19°20 | 11°44 | 23°49 | 24°51 | 10°10 | 8°16 | 18°20 | 5°50 | 5°36 | 9°R39 | 11° 3 | 16°48 | 20°26 | S 16 |
| S 17 | 5 44 31 | 25°45'13 | 1♈26 | 13°12 | 25° 4 | 25°32 | 10°21 | 8°17 | 18°21 | 5°52 | 5°35 | 9°39 | 10°59 | 16°54 | 20°27 | S 17 |
| M18 | 5 48 28 | 26°46'21 | 13°48 | 14°37 | 26°18 | 26°14 | 10°32 | 8°18 | 18°22 | 5°54 | 5°33 | 9°37 | 10°56 | 17° 1 | 20°28 | M18 |
| T 19 | 5 52 24 | 27°47'29 | 26°32 | 16° 1 | 27°32 | 26°55 | 10°43 | 8°18 | 18°23 | 5°55 | 5°32 | 9°33 | 10°53 | 17° 7 | 20°29 | T 19 |
| W20 | 5 56 21 | 28°48'37 | 9♉41 | 17°23 | 28°47 | 27°37 | 10°54 | 8°19 | 18°24 | 5°57 | 5°31 | 9°28 | 10°50 | 17°14 | 20°30 | W20 |
| T 21 | 6 0 17 | 29°49'45 | 23°16 | 18°43 | 0♑ 1 | 28°19 | 11° 5 | 8°20 | 18°26 | 5°59 | 5°30 | 9°22 | 10°47 | 17°21 | 20°31 | T 21 |
| F 22 | 6 4 14 | 0♑50'54 | 7♊18 | 20° 0 | 1°15 | 29° 0 | 11°15 | 8°22 | 18°27 | 6° 1 | 5°28 | 9°15 | 10°44 | 17°27 | 20°32 | F 22 |
| S 23 | 6 8 11 | 1°52'02 | 21°42 | 21°13 | 2°30 | 29°42 | 11°26 | 8°23 | 18°28 | 6° 3 | 5°27 | 9° 9 | 10°40 | 17°34 | 20°33 | S 23 |
| S 24 | 6 12 7 | 2°53'11 | 6♋23 | 22°23 | 3°44 | 0♑24 | 11°36 | 8°24 | 18°29 | 6° 5 | 5°26 | 9° 5 | 10°37 | 17°41 | 20°35 | S 24 |
| M25 | 6 16 4 | 3°54'20 | 21°14 | 23°28 | 4°59 | 1° 6 | 11°47 | 8°26 | 18°31 | 6° 7 | 5°25 | 9° 2 | 10°34 | 17°47 | 20°36 | M25 |
| T 26 | 6 20 0 | 4°55'29 | 6♌ 7 | 24°28 | 6°13 | 1°48 | 11°57 | 8°28 | 18°32 | 6° 9 | 5°24 | 9°D 0 | 10°31 | 17°54 | 20°37 | T 26 |
| W27 | 6 23 57 | 5°56'38 | 20°53 | 25°22 | 7°28 | 2°29 | 12° 7 | 8°29 | 18°34 | 6°11 | 5°22 | 9° 1 | 10°28 | 18° 1 | 20°39 | W27 |
| T 28 | 6 27 53 | 6°57'48 | 5♍28 | 26° 9 | 8°43 | 3°11 | 12°17 | 8°31 | 18°35 | 6°13 | 5°21 | 9° 2 | 10°24 | 18° 7 | 20°40 | T 28 |
| F 29 | 6 31 50 | 7°58'58 | 19°47 | 26°48 | 9°57 | 3°53 | 12°27 | 8°33 | 18°37 | 6°15 | 5°20 | 9° 4 | 10°21 | 18°14 | 20°42 | F 29 |
| S 30 | 6 35 46 | 9° 0'08 | 3♎48 | 27°18 | 11°12 | 4°35 | 12°37 | 8°35 | 18°38 | 6°17 | 5°19 | 9°R 5 | 10°18 | 18°21 | 20°44 | S 30 |
| S 31 | 6 39 43 | 10♑ 1'18 | 17♎31 | 27♑40 | 12♑26 | 5♑17 | 12♏47 | 8♈37 | 18♓40 | 6♒19 | 5♋17 | 9♒ 5 | 10♒15 | 18♒27 | 20♓45 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s55 | 5n51 | 2s26 | 24s52 | 1s52 | 11s31 | 1n55 | 15s52 | 0n22 | 12s59 | 1n 3 | 0n54 | 2s38 | 5s23 | 0s46 | 18s55 | 0n 2 | 20n 2 | 3s19 | 17s34 | 17s16 | 16s 3 | 0s15 | 3n54 |
| S 2 | 22 4 | 0s27 | 3 27 | 25 3 | 1 56 | 11 56 | 1 54 | 16 5 | 0 22 | 13 2 | 1 3 | 0 53 | 2 37 | 5 23 | 0 46 | 18 54 | 0 2 | 20 2 | 3 19 | 17 34 | 17 17 | 16 0 | 0 16 | 3 54 |
| S 3 | 22 12 | 6 39 | 4 14 | 25 13 | 1 59 | 12 20 | 1 53 | 16 17 | 0 21 | 13 6 | 1 3 | 0 53 | 2 37 | 5 23 | 0 46 | 18 54 | 0 2 | 20 2 | 3 19 | 17 35 | 17 18 | 15 57 | 0 16 | 3 53 |
| M 4 | 22 20 | 12 28 | 4 47 | 25 22 | 2 2 | 12 45 | 1 53 | 16 30 | 0 20 | 13 10 | 1 3 | 0 53 | 2 37 | 5 23 | 0 46 | 18 54 | 0 2 | 20 2 | 3 19 | 17 37 | 17 19 | 15 54 | 0 16 | 3 53 |
| T 5 | 22 28 | 17 37 | 5 3 | 25 29 | 2 5 | 13 9 | 1 52 | 16 42 | 0 20 | 13 14 | 1 3 | 0 53 | 2 37 | 5 23 | 0 46 | 18 53 | 0 2 | 20 2 | 3 19 | 17 39 | 17 20 | 15 51 | 0 16 | 3 53 |
| W 6 | 22 35 | 21 50 | 5 3 | 25 34 | 2 8 | 13 33 | 1 51 | 16 54 | 0 19 | 13 18 | 1 3 | 0 53 | 2 36 | 5 22 | 0 46 | 18 53 | 0 2 | 20 2 | 3 19 | 17 41 | 17 21 | 15 49 | 0 16 | 3 53 |
| T 7 | 22 42 | 24 54 | 4 47 | 25 38 | 2 10 | 13 56 | 1 50 | 17 6 | 0 19 | 13 21 | 1 3 | 0 53 | 2 36 | 5 22 | 0 46 | 18 53 | 0 2 | 20 2 | 3 19 | 17 44 | 17 22 | 15 46 | 0 17 | 3 52 |
| F 8 | 22 48 | 26 39 | 4 16 | 25 41 | 2 12 | 14 19 | 1 49 | 17 18 | 0 18 | 13 25 | 1 3 | 0 53 | 2 36 | 5 22 | 0 46 | 18 52 | 0 2 | 20 2 | 3 19 | 17 47 | 17 22 | 15 43 | 0 17 | 3 52 |
| S 9 | 22 54 | 26 58 | 3 34 | 25 42 | 2 14 | 14 42 | 1 48 | 17 30 | 0 18 | 13 29 | 1 3 | 0 54 | 2 36 | 5 22 | 0 46 | 18 52 | 0 2 | 20 2 | 3 19 | 17 49 | 17 23 | 15 40 | 0 17 | 3 52 |
| S 10 | 23 0 | 25 56 | 2 42 | 25 42 | 2 15 | 15 4 | 1 46 | 17 41 | 0 17 | 13 32 | 1 3 | 0 54 | 2 35 | 5 21 | 0 46 | 18 51 | 0 2 | 20 3 | 3 19 | 17 51 | 17 24 | 15 37 | 0 17 | 3 51 |
| M11 | 23 5 | 23 41 | 1 43 | 25 40 | 2 15 | 15 27 | 1 45 | 17 53 | 0 16 | 13 36 | 1 3 | 0 54 | 2 35 | 5 21 | 0 46 | 18 51 | 0 2 | 20 3 | 3 19 | 17 52 | 17 25 | 15 35 | 0 17 | 3 51 |
| T 12 | 23 9 | 20 24 | 0 41 | 25 37 | 2 16 | 15 48 | 1 44 | 18 4 | 0 16 | 13 39 | 1 3 | 0 54 | 2 35 | 5 21 | 0 46 | 18 51 | 0 2 | 20 3 | 3 19 | 17 53 | 17 26 | 15 32 | 0 17 | 3 51 |
| W13 | 23 13 | 16 20 | 0n23 | 25 32 | 2 15 | 16 10 | 1 42 | 18 15 | 0 15 | 13 43 | 1 3 | 0 55 | 2 35 | 5 20 | 0 46 | 18 50 | 0 2 | 20 3 | 3 19 | 17 53 | 17 27 | 15 29 | 0 17 | 3 51 |
| T 14 | 23 17 | 11 39 | 1 26 | 25 26 | 2 14 | 16 31 | 1 41 | 18 26 | 0 15 | 13 46 | 1 4 | 0 55 | 2 34 | 5 20 | 0 46 | 18 50 | 0 2 | 20 3 | 3 19 | 17 53 | 17 28 | 15 26 | 0 17 | 3 50 |
| F 15 | 23 20 | 6 33 | 2 25 | 25 18 | 2 13 | 16 51 | 1 39 | 18 37 | 0 14 | 13 50 | 1 4 | 0 55 | 2 34 | 5 20 | 0 46 | 18 49 | 0 2 | 20 3 | 3 19 | 17 52 | 17 29 | 15 23 | 0 17 | 3 50 |
| S 16 | 23 23 | 1 11 | 3 19 | 25 8 | 2 11 | 17 11 | 1 38 | 18 48 | 0 13 | 13 53 | 1 4 | 0 56 | 2 34 | 5 19 | 0 46 | 18 49 | 0 2 | 20 3 | 3 19 | 17 52 | 17 29 | 15 20 | 0 17 | 3 50 |
| S 17 | 23 25 | 4n18 | 4 4 | 24 57 | 2 8 | 17 31 | 1 36 | 18 58 | 0 13 | 13 57 | 1 4 | 0 56 | 2 34 | 5 19 | 0 46 | 18 48 | 0 2 | 20 3 | 3 19 | 17 52 | 17 30 | 15 18 | 0 17 | 3 49 |
| M18 | 23 27 | 9 45 | 4 40 | 24 45 | 2 5 | 17 50 | 1 34 | 19 9 | 0 12 | 14 0 | 1 4 | 0 57 | 2 33 | 5 18 | 0 45 | 18 48 | 0 2 | 20 3 | 3 19 | 17 53 | 17 31 | 15 15 | 0 16 | 3 49 |
| T 19 | 23 28 | 14 57 | 5 2 | 24 31 | 2 1 | 18 9 | 1 32 | 19 19 | 0 12 | 14 3 | 1 4 | 0 57 | 2 33 | 5 18 | 0 45 | 18 48 | 0 2 | 20 3 | 3 19 | 17 54 | 17 32 | 15 12 | 0 16 | 3 49 |
| W20 | 23 29 | 19 38 | 5 10 | 24 16 | 1 56 | 18 27 | 1 30 | 19 29 | 0 11 | 14 7 | 1 4 | 0 58 | 2 33 | 5 17 | 0 45 | 18 47 | 0 2 | 20 3 | 3 19 | 17 55 | 17 33 | 15 9 | 0 16 | 3 49 |
| T 21 | 23 29 | 23 29 | 5 1 | 23 59 | 1 50 | 18 45 | 1 28 | 19 39 | 0 10 | 14 10 | 1 4 | 0 59 | 2 32 | 5 17 | 0 45 | 18 47 | 0 2 | 20 4 | 3 19 | 17 57 | 17 34 | 15 6 | 0 16 | 3 48 |
| F 22 | 23 29 | 26 5 | 4 34 | 23 42 | 1 43 | 19 2 | 1 26 | 19 49 | 0 10 | 14 13 | 1 4 | 0 59 | 2 32 | 5 16 | 0 45 | 18 46 | 0 2 | 20 4 | 3 19 | 17 58 | 17 35 | 15 3 | 0 16 | 3 48 |
| S 23 | 23 28 | 27 2 | 3 49 | 23 23 | 1 36 | 19 19 | 1 24 | 19 59 | 0 9 | 14 16 | 1 4 | 1 0 | 2 32 | 5 16 | 0 45 | 18 46 | 0 2 | 20 4 | 3 19 | 18 0 | 17 35 | 15 0 | 0 16 | 3 48 |
| S 24 | 23 27 | 26 8 | 2 49 | 23 3 | 1 27 | 19 35 | 1 22 | 20 8 | 0 8 | 14 19 | 1 4 | 1 1 | 2 32 | 5 15 | 0 45 | 18 45 | 0 2 | 20 4 | 3 19 | 18 1 | 17 36 | 14 58 | 0 15 | 3 47 |
| M25 | 23 26 | 23 23 | 1 36 | 22 43 | 1 18 | 19 51 | 1 20 | 20 17 | 0 8 | 14 22 | 1 4 | 1 2 | 2 31 | 5 15 | 0 45 | 18 45 | 0 2 | 20 4 | 3 19 | 18 2 | 17 37 | 14 55 | 0 15 | 3 47 |
| T 26 | 23 23 | 19 2 | 0 16 | 22 22 | 1 7 | 20 6 | 1 18 | 20 26 | 0 7 | 14 25 | 1 5 | 1 3 | 2 31 | 5 14 | 0 45 | 18 44 | 0 2 | 20 4 | 3 18 | 18 2 | 17 38 | 14 52 | 0 15 | 3 47 |
| W27 | 23 21 | 13 32 | 1s 5 | 22 0 | 0 55 | 20 21 | 1 16 | 20 35 | 0 7 | 14 29 | 1 5 | 1 4 | 2 31 | 5 13 | 0 45 | 18 44 | 0 2 | 20 4 | 3 18 | 18 2 | 17 39 | 14 49 | 0 14 | 3 47 |
| T 28 | 23 18 | 7 21 | 2 20 | 21 39 | 0 42 | 20 35 | 1 14 | 20 44 | 0 6 | 14 31 | 1 5 | 1 5 | 2 31 | 5 13 | 0 45 | 18 43 | 0 2 | 20 4 | 3 18 | 18 2 | 17 40 | 14 46 | 0 14 | 3 46 |
| F 29 | 23 15 | 0 55 | 3 25 | 21 18 | 0 28 | 20 49 | 1 11 | 20 53 | 0 5 | 14 34 | 1 5 | 1 6 | 2 30 | 5 12 | 0 45 | 18 43 | 0 2 | 20 4 | 3 18 | 18 1 | 17 41 | 14 43 | 0 14 | 3 46 |
| S 30 | 23 11 | 5s26 | 4 16 | 20 57 | 0 13 | 21 1 | 1 9 | 21 1 | 0 5 | 14 37 | 1 5 | 1 7 | 2 30 | 5 11 | 0 45 | 18 42 | 0 2 | 20 4 | 3 18 | 18 1 | 17 42 | 14 40 | 0 13 | 3 46 |
| S 31 | 23s 6 | 11s23 | 4s52 | 20s37 | 0n 3 | 21s14 | 1n 7 | 21s 9 | 0n 4 | 14s40 | 1n 5 | 1n 8 | 2s30 | 5s11 | 0s45 | 18s42 | 0n 2 | 20n 5 | 3s18 | 18s 1 | 17s42 | 14s37 | 0s13 | 3n46 |

Julian Day Number = 2332445.5, Delta T = 27.28 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'19, Lahiri = 19°18'20Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## JANUARY 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 43 40 | 11♑ 2'29 | 0♏56 | 27°R50 | 13♐41 | 5♐59 | 12♏56 | 8♈40 | 18♓42 | 6♒21 | 5°R16 | 9°R 3 | 10♒12 | 18♒34 | 20♓47 | M 1 |
| T 2 | 6 47 36 | 12° 3'39 | 14° 5 | 27♑50 | 14°56 | 6°41 | 13° 6 | 8°42 | 18°44 | 6°24 | 5♋15 | 9♒ 0 | 10° 9 | 18°41 | 20°49 | T 2 |
| W 3 | 6 51 33 | 13° 4'50 | 26°59 | 27°38 | 16°10 | 7°23 | 13°16 | 8°44 | 18°45 | 6°26 | 5°14 | 8°56 | 10° 5 | 18°47 | 20°50 | W 3 |
| T 4 | 6 55 29 | 14° 6'01 | 9♐39 | 27°14 | 17°25 | 8° 6 | 13°25 | 8°47 | 18°47 | 6°28 | 5°12 | 8°52 | 10° 2 | 18°54 | 20°52 | T 4 |
| F 5 | 6 59 26 | 15° 7'12 | 22° 7 | 26°38 | 18°40 | 8°48 | 13°34 | 8°50 | 18°49 | 6°30 | 5°11 | 8°48 | 9°59 | 19° 0 | 20°54 | F 5 |
| S 6 | 7 3 22 | 16° 8'22 | 4♑24 | 25°52 | 19°55 | 9°30 | 13°43 | 8°52 | 18°51 | 6°32 | 5°10 | 8°44 | 9°56 | 19° 7 | 20°56 | S 6 |
| S 7 | 7 7 19 | 17° 9'33 | 16°31 | 24°55 | 21° 9 | 10°12 | 13°52 | 8°55 | 18°53 | 6°34 | 5° 9 | 8°42 | 9°53 | 19°14 | 20°58 | S 7 |
| M 8 | 7 11 15 | 18°10'43 | 28°30 | 23°49 | 22°24 | 10°55 | 14° 1 | 8°58 | 18°55 | 6°36 | 5° 8 | 8°40 | 9°50 | 19°20 | 21° 0 | M 8 |
| T 9 | 7 15 12 | 19°11'52 | 10♒22 | 22°37 | 23°39 | 11°37 | 14°10 | 9° 1 | 18°57 | 6°39 | 5° 6 | 8°D40 | 9°46 | 19°27 | 21° 2 | T 9 |
| W10 | 7 19 9 | 20°13'01 | 22°10 | 21°20 | 24°54 | 12°19 | 14°19 | 9° 5 | 18°59 | 6°41 | 5° 5 | 8°40 | 9°43 | 19°34 | 21° 4 | W10 |
| T 11 | 7 23 5 | 21°14'09 | 3♓56 | 20° 2 | 26° 8 | 13° 2 | 14°27 | 9° 8 | 19° 1 | 6°43 | 5° 4 | 8°42 | 9°40 | 19°40 | 21° 7 | T 11 |
| F 12 | 7 27 2 | 22°15'16 | 15°45 | 18°43 | 27°23 | 13°44 | 14°35 | 9°11 | 19° 4 | 6°45 | 5° 3 | 8°43 | 9°37 | 19°47 | 21° 9 | F 12 |
| S 13 | 7 30 58 | 23°16'23 | 27°39 | 17°28 | 28°38 | 14°26 | 14°44 | 9°15 | 19° 6 | 6°47 | 5° 2 | 8°45 | 9°34 | 19°54 | 21°11 | S 13 |
| S 14 | 7 34 55 | 24°17'29 | 9♈43 | 16°17 | 29°53 | 15° 9 | 14°52 | 9°18 | 19° 8 | 6°50 | 5° 1 | 8°46 | 9°30 | 20° 0 | 21°13 | S 14 |
| M15 | 7 38 51 | 25°18'33 | 22° 2 | 15°13 | 1♑ 8 | 15°51 | 15° 0 | 9°22 | 19°10 | 6°52 | 4°59 | 8°R46 | 9°27 | 20° 7 | 21°16 | M15 |
| T 16 | 7 42 48 | 26°19'37 | 4♉41 | 14°17 | 2°22 | 16°34 | 15° 8 | 9°26 | 19°13 | 6°54 | 4°58 | 8°46 | 9°24 | 20°14 | 21°18 | T 16 |
| W17 | 7 46 44 | 27°20'40 | 17°43 | 13°29 | 3°37 | 17°16 | 15°16 | 9°30 | 19°15 | 6°56 | 4°57 | 8°45 | 9°21 | 20°20 | 21°21 | W17 |
| T 18 | 7 50 41 | 28°21'42 | 1♊11 | 12°51 | 4°52 | 17°59 | 15°23 | 9°34 | 19°18 | 6°59 | 4°56 | 8°44 | 9°18 | 20°27 | 21°23 | T 18 |
| F 19 | 7 54 38 | 29°22'44 | 15° 7 | 12°21 | 6° 7 | 18°42 | 15°31 | 9°38 | 19°20 | 7° 1 | 4°55 | 8°43 | 9°15 | 20°34 | 21°26 | F 19 |
| S 20 | 7 58 34 | 0♒23'44 | 29°30 | 12° 1 | 7°22 | 19°24 | 15°38 | 9°42 | 19°23 | 7° 3 | 4°54 | 8°42 | 9°11 | 20°40 | 21°28 | S 20 |
| S 21 | 8 2 31 | 1°24'43 | 14♋16 | 11°49 | 8°37 | 20° 7 | 15°45 | 9°46 | 19°25 | 7° 5 | 4°53 | 8°41 | 9° 8 | 20°47 | 21°31 | S 21 |
| M22 | 8 6 27 | 2°25'41 | 29°18 | 11°D46 | 9°51 | 20°50 | 15°52 | 9°50 | 19°28 | 7° 8 | 4°52 | 8°41 | 9° 5 | 20°53 | 21°34 | M22 |
| T 23 | 8 10 24 | 3°26'38 | 14♌29 | 11°51 | 11° 6 | 21°32 | 15°59 | 9°55 | 19°30 | 7°10 | 4°50 | 8°D41 | 9° 2 | 21° 0 | 21°36 | T 23 |
| W24 | 8 14 20 | 4°27'34 | 29°38 | 12° 3 | 12°21 | 22°15 | 16° 6 | 9°59 | 19°33 | 7°12 | 4°49 | 8°41 | 8°59 | 21° 7 | 21°39 | W24 |
| T 25 | 8 18 17 | 5°28'29 | 14♍36 | 12°21 | 13°36 | 22°58 | 16°13 | 10° 4 | 19°36 | 7°15 | 4°48 | 8°41 | 8°56 | 21°13 | 21°42 | T 25 |
| F 26 | 8 22 14 | 6°29'23 | 29°16 | 12°46 | 14°51 | 23°41 | 16°19 | 10° 8 | 19°38 | 7°17 | 4°47 | 8°41 | 8°52 | 21°20 | 21°45 | F 26 |
| S 27 | 8 26 10 | 7°30'17 | 13♎34 | 13°17 | 16° 6 | 24°24 | 16°26 | 10°13 | 19°41 | 7°19 | 4°46 | 8°42 | 8°49 | 21°27 | 21°47 | S 27 |
| S 28 | 8 30 7 | 8°31'10 | 27°27 | 13°52 | 17°20 | 25° 7 | 16°32 | 10°18 | 19°44 | 7°21 | 4°45 | 8°R42 | 8°46 | 21°33 | 21°50 | S 28 |
| M29 | 8 34 3 | 9°32'02 | 10♏55 | 14°33 | 18°35 | 25°50 | 16°38 | 10°23 | 19°47 | 7°24 | 4°44 | 8°D42 | 8°43 | 21°40 | 21°53 | M29 |
| T 30 | 8 38 0 | 10°32'53 | 23°59 | 15°18 | 19°50 | 26°33 | 16°44 | 10°28 | 19°49 | 7°26 | 4°43 | 8°42 | 8°40 | 21°47 | 21°56 | T 30 |
| W31 | 8 41 56 | 11♒33'43 | 6♐44 | 16♑ 7 | 21♑ 5 | 27♐16 | 16♏49 | 10♈33 | 19♓52 | 7♒28 | 4♋42 | 8♒42 | 8♒36 | 21♒53 | 21♓59 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23s 1 | 16s40 | 5s11 | 20s18 | 0n20 | 21s25 | 1n 4 | 21s18 | 0n 3 | 14s43 | 1n 5 | 1n 9 | 2s30 | 5s10 | 0s45 | 18s41 | 0n 2 | 20n 5 | 3s18 | 18s 2 | 17s43 | 14s35 | 0s12 | 3n45 |
| T 2 | 22 56 | 21 4 | 5 13 | 20 0 | 0 39 | 21 37 | 1 2 | 21 25 | 0 3 | 14 46 | 1 5 | 1 10 | 2 29 | 5 9 | 0 45 | 18 41 | 0 2 | 20 5 | 3 18 | 18 2 | 17 44 | 14 32 | 0 12 | 3 45 |
| W 3 | 22 50 | 24 21 | 4 59 | 19 44 | 0 57 | 21 47 | 0 59 | 21 33 | 0 2 | 14 49 | 1 5 | 1 11 | 2 29 | 5 9 | 0 45 | 18 40 | 0 2 | 20 5 | 3 18 | 18 3 | 17 45 | 14 29 | 0 12 | 3 45 |
| T 4 | 22 44 | 26 23 | 4 30 | 19 30 | 1 16 | 21 57 | 0 57 | 21 41 | 0 1 | 14 51 | 1 5 | 1 13 | 2 29 | 5 8 | 0 45 | 18 40 | 0 2 | 20 5 | 3 18 | 18 4 | 17 46 | 14 26 | 0 11 | 3 45 |
| F 5 | 22 37 | 27 3 | 3 49 | 19 18 | 1 35 | 22 6 | 0 54 | 21 48 | 0 1 | 14 54 | 1 6 | 1 14 | 2 29 | 5 7 | 0 45 | 18 39 | 0 2 | 20 5 | 3 18 | 18 6 | 17 47 | 14 23 | 0 11 | 3 44 |
| S 6 | 22 30 | 26 22 | 2 58 | 19 8 | 1 54 | 22 14 | 0 52 | 21 55 | 0s 0 | 14 56 | 1 6 | 1 15 | 2 28 | 5 6 | 0 45 | 18 39 | 0 2 | 20 5 | 3 18 | 18 7 | 17 48 | 14 20 | 0 10 | 3 44 |
| S 7 | 22 23 | 24 26 | 1 59 | 19 1 | 2 12 | 22 22 | 0 49 | 22 2 | 0 1 | 14 59 | 1 6 | 1 17 | 2 28 | 5 5 | 0 45 | 18 38 | 0 2 | 20 5 | 3 18 | 18 7 | 17 48 | 14 17 | 0 9 | 3 44 |
| M 8 | 22 15 | 21 25 | 0 56 | 18 56 | 2 29 | 22 30 | 0 46 | 22 9 | 0 2 | 15 2 | 1 6 | 1 18 | 2 28 | 5 5 | 0 45 | 18 38 | 0 2 | 20 6 | 3 18 | 18 8 | 17 49 | 14 14 | 0 9 | 3 44 |
| T 9 | 22 6 | 17 31 | 0n 9 | 18 52 | 2 45 | 22 36 | 0 44 | 22 15 | 0 2 | 15 4 | 1 6 | 1 19 | 2 28 | 5 4 | 0 45 | 18 37 | 0 2 | 20 6 | 3 18 | 18 8 | 17 50 | 14 11 | 0 8 | 3 43 |
| W10 | 21 57 | 12 59 | 1 14 | 18 51 | 2 58 | 22 42 | 0 41 | 22 22 | 0 3 | 15 6 | 1 6 | 1 21 | 2 27 | 5 3 | 0 45 | 18 37 | 0 2 | 20 6 | 3 17 | 18 8 | 17 51 | 14 8 | 0 8 | 3 43 |
| T 11 | 21 48 | 7 59 | 2 15 | 18 52 | 3 9 | 22 47 | 0 39 | 22 28 | 0 4 | 15 9 | 1 6 | 1 22 | 2 27 | 5 2 | 0 45 | 18 36 | 0 2 | 20 6 | 3 17 | 18 7 | 17 52 | 14 6 | 0 7 | 3 43 |
| F 12 | 21 38 | 2 41 | 3 11 | 18 54 | 3 18 | 22 52 | 0 36 | 22 34 | 0 4 | 15 11 | 1 6 | 1 24 | 2 27 | 5 1 | 0 45 | 18 35 | 0 2 | 20 6 | 3 17 | 18 7 | 17 53 | 14 3 | 0 6 | 3 43 |
| S 13 | 21 28 | 2n43 | 3 59 | 18 58 | 3 24 | 22 55 | 0 33 | 22 39 | 0 5 | 15 14 | 1 7 | 1 26 | 2 27 | 5 0 | 0 45 | 18 35 | 0 2 | 20 6 | 3 17 | 18 6 | 17 53 | 14 0 | 0 6 | 3 42 |
| S 14 | 21 18 | 8 6 | 4 38 | 19 3 | 3 28 | 22 58 | 0 30 | 22 45 | 0 6 | 15 16 | 1 7 | 1 27 | 2 26 | 4 59 | 0 44 | 18 34 | 0 2 | 20 6 | 3 17 | 18 6 | 17 54 | 13 57 | 0 5 | 3 42 |
| M15 | 21 7 | 13 18 | 5 4 | 19 9 | 3 29 | 23 1 | 0 28 | 22 50 | 0 6 | 15 18 | 1 7 | 1 29 | 2 26 | 4 58 | 0 44 | 18 34 | 0 2 | 20 6 | 3 17 | 18 6 | 17 55 | 13 54 | 0 4 | 3 42 |
| T 16 | 20 56 | 18 4 | 5 17 | 19 16 | 3 28 | 23 3 | 0 25 | 22 55 | 0 7 | 15 20 | 1 7 | 1 31 | 2 26 | 4 57 | 0 44 | 18 33 | 0 2 | 20 7 | 3 17 | 18 6 | 17 56 | 13 51 | 0 4 | 3 42 |
| W17 | 20 44 | 22 9 | 5 14 | 19 24 | 3 25 | 23 4 | 0 22 | 23 0 | 0 8 | 15 22 | 1 7 | 1 32 | 2 26 | 4 56 | 0 44 | 18 33 | 0 2 | 20 7 | 3 17 | 18 6 | 17 57 | 13 48 | 0 3 | 3 41 |
| T 18 | 20 32 | 25 13 | 4 53 | 19 32 | 3 21 | 23 4 | 0 20 | 23 5 | 0 9 | 15 24 | 1 7 | 1 34 | 2 25 | 4 56 | 0 44 | 18 32 | 0 2 | 20 7 | 3 17 | 18 7 | 17 58 | 13 45 | 0 2 | 3 41 |
| F 19 | 20 19 | 26 53 | 4 16 | 19 41 | 3 15 | 23 4 | 0 17 | 23 9 | 0 9 | 15 26 | 1 7 | 1 36 | 2 25 | 4 55 | 0 44 | 18 32 | 0 2 | 20 7 | 3 17 | 18 7 | 17 59 | 13 42 | 0 1 | 3 41 |
| S 20 | 20 6 | 26 50 | 3 21 | 19 50 | 3 7 | 23 2 | 0 14 | 23 14 | 0 10 | 15 28 | 1 7 | 1 38 | 2 25 | 4 54 | 0 44 | 18 31 | 0 2 | 20 7 | 3 17 | 18 7 | 17 59 | 13 39 | 0 0 | 3 41 |
| S 21 | 19 53 | 24 54 | 2 12 | 19 59 | 2 59 | 23 1 | 0 12 | 23 18 | 0 11 | 15 30 | 1 8 | 1 40 | 2 25 | 4 52 | 0 44 | 18 30 | 0 2 | 20 7 | 3 17 | 18 7 | 18 0 | 13 36 | 0n 0 | 3 41 |
| M22 | 19 39 | 21 11 | 0 52 | 20 9 | 2 50 | 22 58 | 0 9 | 23 22 | 0 12 | 15 32 | 1 8 | 1 41 | 2 24 | 4 51 | 0 44 | 18 30 | 0 2 | 20 7 | 3 16 | 18 7 | 18 1 | 13 33 | 0 1 | 3 40 |
| T 23 | 19 25 | 16 0 | 0s32 | 20 18 | 2 40 | 22 55 | 0 6 | 23 25 | 0 12 | 15 34 | 1 8 | 1 43 | 2 24 | 4 50 | 0 44 | 18 29 | 0 2 | 20 7 | 3 16 | 18 7 | 18 2 | 13 31 | 0 2 | 3 40 |
| W24 | 19 11 | 9 51 | 1 54 | 20 27 | 2 30 | 22 51 | 0 4 | 23 29 | 0 13 | 15 36 | 1 8 | 1 45 | 2 24 | 4 49 | 0 44 | 18 29 | 0 2 | 20 8 | 3 16 | 18 7 | 18 3 | 13 28 | 0 3 | 3 40 |
| T 25 | 18 56 | 3 12 | 3 7 | 20 36 | 2 19 | 22 46 | 0 1 | 23 32 | 0 14 | 15 38 | 1 8 | 1 47 | 2 24 | 4 48 | 0 44 | 18 28 | 0 2 | 20 8 | 3 16 | 18 7 | 18 4 | 13 25 | 0 4 | 3 40 |
| F 26 | 18 41 | 3s28 | 4 6 | 20 45 | 2 8 | 22 41 | 0s 2 | 23 35 | 0 15 | 15 39 | 1 8 | 1 49 | 2 24 | 4 47 | 0 44 | 18 28 | 0 2 | 20 8 | 3 16 | 18 7 | 18 4 | 13 22 | 0 5 | 3 39 |
| S 27 | 18 26 | 9 47 | 4 48 | 20 53 | 1 57 | 22 35 | 0 4 | 23 37 | 0 15 | 15 41 | 1 8 | 1 51 | 2 23 | 4 46 | 0 44 | 18 27 | 0 2 | 20 8 | 3 16 | 18 7 | 18 5 | 13 19 | 0 6 | 3 39 |
| S 28 | 18 10 | 15 26 | 5 12 | 21 0 | 1 46 | 22 28 | 0 7 | 23 40 | 0 16 | 15 43 | 1 9 | 1 53 | 2 23 | 4 45 | 0 44 | 18 26 | 0 2 | 20 8 | 3 16 | 18 7 | 18 6 | 13 16 | 0 7 | 3 39 |
| M29 | 17 54 | 20 9 | 5 18 | 21 7 | 1 35 | 22 21 | 0 10 | 23 42 | 0 17 | 15 44 | 1 9 | 1 56 | 2 23 | 4 44 | 0 44 | 18 26 | 0 2 | 20 8 | 3 16 | 18 7 | 18 7 | 13 13 | 0 8 | 3 39 |
| T 30 | 17 38 | 23 45 | 5 7 | 21 12 | 1 24 | 22 13 | 0 12 | 23 44 | 0 18 | 15 46 | 1 9 | 1 58 | 2 23 | 4 43 | 0 44 | 18 25 | 0 2 | 20 8 | 3 16 | 18 7 | 18 8 | 13 10 | 0 9 | 3 39 |
| W31 | 17s21 | 26s 5 | 4s41 | 21s18 | 1n13 | 22s 4 | 0s15 | 23s46 | 0s19 | 15s47 | 1n 9 | 2n 0 | 2s22 | 4s42 | 0s44 | 18s25 | 0n 2 | 20n 9 | 3s16 | 18s 7 | 18s 9 | 13s 7 | 0n10 | 3n38 |

Julian Day Number = 2332476.5, Delta T = 27.23 sec
Ecliptic obliquity = 23°28'59, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'23, Lahiri = 19°18'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## FEBRUARY 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 45 53 | 12♒34'33 | 19♐11 | 16♑59 | 22♑20 | 27♐59 | 16♏55 | 10♈38 | 19♓55 | 7♒31 | 4°R41 | 8♒42 | 8♒33 | 22♒ 0 | 22♓ 2 | T 1 |
| F 2 | 8 49 49 | 13°35'21 | 1♑25 | 17°55 | 23°35 | 28°42 | 17° 0 | 10°43 | 19°58 | 7°33 | 4♋40 | 8°43 | 8°30 | 22° 7 | 22° 5 | F 2 |
| S 3 | 8 53 46 | 14°36'08 | 13°28 | 18°53 | 24°50 | 29°25 | 17° 6 | 10°48 | 20° 1 | 7°35 | 4°40 | 8°43 | 8°27 | 22°13 | 22° 8 | S 3 |
| S 4 | 8 57 43 | 15°36'55 | 25°24 | 19°55 | 26° 4 | 0♑ 8 | 17°11 | 10°54 | 20° 4 | 7°37 | 4°39 | 8°44 | 8°24 | 22°20 | 22°11 | S 4 |
| M 5 | 9 1 39 | 16°37'39 | 7♒15 | 20°58 | 27°19 | 0°51 | 17°16 | 10°59 | 20° 7 | 7°40 | 4°38 | 8°R44 | 8°21 | 22°27 | 22°15 | M 5 |
| T 6 | 9 5 36 | 17°38'23 | 19° 3 | 22° 5 | 28°34 | 1°34 | 17°21 | 11° 4 | 20°10 | 7°42 | 4°37 | 8°44 | 8°17 | 22°33 | 22°18 | T 6 |
| W 7 | 9 9 32 | 18°39'05 | 0♓50 | 23°13 | 29°49 | 2°18 | 17°25 | 11°10 | 20°13 | 7°44 | 4°36 | 8°43 | 8°14 | 22°40 | 22°21 | W 7 |
| T 8 | 9 13 29 | 19°39'45 | 12°39 | 24°24 | 1♒ 4 | 3° 1 | 17°30 | 11°16 | 20°16 | 7°46 | 4°35 | 8°42 | 8°11 | 22°47 | 22°24 | T 8 |
| F 9 | 9 17 25 | 20°40'24 | 24°32 | 25°36 | 2°19 | 3°44 | 17°34 | 11°21 | 20°19 | 7°49 | 4°34 | 8°40 | 8° 8 | 22°53 | 22°27 | F 9 |
| S 10 | 9 21 22 | 21°41'02 | 6♈31 | 26°50 | 3°34 | 4°27 | 17°38 | 11°27 | 20°22 | 7°51 | 4°34 | 8°38 | 8° 5 | 23° 0 | 22°31 | S 10 |
| S 11 | 9 25 18 | 22°41'38 | 18°39 | 28° 5 | 4°48 | 5°11 | 17°42 | 11°33 | 20°25 | 7°53 | 4°33 | 8°36 | 8° 1 | 23° 6 | 22°34 | S 11 |
| M12 | 9 29 15 | 23°42'12 | 0♉59 | 29°23 | 6° 3 | 5°54 | 17°46 | 11°39 | 20°28 | 7°55 | 4°32 | 8°35 | 7°58 | 23°13 | 22°37 | M12 |
| T 13 | 9 33 12 | 24°42'44 | 13°36 | 0♒41 | 7°18 | 6°37 | 17°49 | 11°45 | 20°31 | 7°57 | 4°31 | 8°33 | 7°55 | 23°20 | 22°41 | T 13 |
| W14 | 9 37 8 | 25°43'14 | 26°31 | 2° 1 | 8°33 | 7°21 | 17°53 | 11°51 | 20°35 | 8° 0 | 4°31 | 8°D33 | 7°52 | 23°26 | 22°44 | W14 |
| T 15 | 9 41 5 | 26°43'43 | 9♊50 | 3°23 | 9°48 | 8° 4 | 17°56 | 11°57 | 20°38 | 8° 2 | 4°30 | 8°34 | 7°49 | 23°33 | 22°47 | T 15 |
| F 16 | 9 45 1 | 27°44'09 | 23°33 | 4°46 | 11° 2 | 8°48 | 17°59 | 12° 3 | 20°41 | 8° 4 | 4°29 | 8°35 | 7°46 | 23°40 | 22°51 | F 16 |
| S 17 | 9 48 58 | 28°44'34 | 7♋43 | 6°10 | 12°17 | 9°31 | 18° 2 | 12° 9 | 20°44 | 8° 6 | 4°29 | 8°36 | 7°42 | 23°46 | 22°54 | S 17 |
| S 18 | 9 52 54 | 29°44'57 | 22°17 | 7°35 | 13°32 | 10°15 | 18° 4 | 12°15 | 20°48 | 8° 8 | 4°28 | 8°37 | 7°39 | 23°53 | 22°58 | S 18 |
| M19 | 9 56 51 | 0♓45'18 | 7♌12 | 9° 1 | 14°47 | 10°58 | 18° 7 | 12°22 | 20°51 | 8°11 | 4°27 | 8°R38 | 7°36 | 24° 0 | 23° 1 | M19 |
| T 20 | 10 0 47 | 1°45'37 | 22°22 | 10°28 | 16° 2 | 11°42 | 18° 9 | 12°28 | 20°54 | 8°13 | 4°27 | 8°37 | 7°33 | 24° 6 | 23° 5 | T 20 |
| W21 | 10 4 44 | 2°45'54 | 7♍37 | 11°57 | 17°16 | 12°25 | 18°11 | 12°34 | 20°57 | 8°15 | 4°26 | 8°36 | 7°30 | 24°13 | 23° 8 | W21 |
| T 22 | 10 8 41 | 3°46'10 | 22°47 | 13°27 | 18°31 | 13° 9 | 18°13 | 12°41 | 21° 1 | 8°17 | 4°26 | 8°33 | 7°27 | 24°20 | 23°12 | T 22 |
| F 23 | 10 12 37 | 4°46'24 | 7♎43 | 14°58 | 19°46 | 13°52 | 18°15 | 12°47 | 21° 4 | 8°19 | 4°25 | 8°29 | 7°23 | 24°26 | 23°15 | F 23 |
| S 24 | 10 16 34 | 5°46'36 | 22°17 | 16°29 | 21° 1 | 14°36 | 18°17 | 12°54 | 21° 7 | 8°21 | 4°25 | 8°25 | 7°20 | 24°33 | 23°19 | S 24 |
| S 25 | 10 20 30 | 6°46'46 | 6♏24 | 18° 2 | 22°15 | 15°20 | 18°18 | 13° 0 | 21°11 | 8°23 | 4°24 | 8°22 | 7°17 | 24°40 | 23°22 | S 25 |
| M26 | 10 24 27 | 7°46'56 | 20° 2 | 19°37 | 23°30 | 16° 4 | 18°19 | 13° 7 | 21°14 | 8°25 | 4°24 | 8°19 | 7°14 | 24°46 | 23°26 | M26 |
| T 27 | 10 28 23 | 8°47'03 | 3♐12 | 21°12 | 24°45 | 16°47 | 18°20 | 13°14 | 21°17 | 8°27 | 4°23 | 8°D18 | 7°11 | 24°53 | 23°30 | T 27 |
| W28 | 10 32 20 | 9♓47'09 | 15♐57 | 22♒48 | 25♒59 | 17♑31 | 18♏21 | 13♈21 | 21♓21 | 8♒29 | 4♋23 | 8♒18 | 7♒ 7 | 25♒ 0 | 23♓33 | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s 4 | 27s 4 | 4s 2 | 21s22 | 1n 3 | 21s55 | 0s17 | 23s47 | 0s19 | 15s49 | 1n 9 | 2n 2 | 2s22 | 4s40 | 0s44 | 18s24 | 0n 2 | 20n 9 | 3s15 | 18s 7 | 18s 9 | 13s 4 | 0n11 | 3n38 |
| F 2 | 16 47 | 26 42 | 3 13 | 21 25 | 0 52 | 21 45 | 0 20 | 23 49 | 0 20 | 15 50 | 1 9 | 2 4 | 2 22 | 4 39 | 0 44 | 18 24 | 0 2 | 20 9 | 3 15 | 18 7 | 18 10 | 13 1 | 0 12 | 3 38 |
| S 3 | 16 29 | 25 3 | 2 16 | 21 27 | 0 42 | 21 34 | 0 22 | 23 50 | 0 21 | 15 52 | 1 10 | 2 6 | 2 22 | 4 38 | 0 44 | 18 23 | 0 2 | 20 9 | 3 15 | 18 7 | 18 11 | 12 58 | 0 13 | 3 38 |
| S 4 | 16 11 | 22 18 | 1 13 | 21 29 | 0 32 | 21 23 | 0 25 | 23 51 | 0 22 | 15 53 | 1 10 | 2 9 | 2 22 | 4 37 | 0 44 | 18 22 | 0 2 | 20 9 | 3 15 | 18 7 | 18 12 | 12 55 | 0 14 | 3 38 |
| M 5 | 15 53 | 18 38 | 0 8 | 21 29 | 0 22 | 21 11 | 0 27 | 23 51 | 0 23 | 15 54 | 1 10 | 2 11 | 2 21 | 4 36 | 0 44 | 18 22 | 0 1 | 20 9 | 3 15 | 18 7 | 18 13 | 12 52 | 0 15 | 3 38 |
| T 6 | 15 34 | 14 14 | 0n57 | 21 28 | 0 12 | 20 58 | 0 30 | 23 52 | 0 23 | 15 55 | 1 10 | 2 13 | 2 21 | 4 35 | 0 44 | 18 21 | 0 1 | 20 9 | 3 15 | 18 7 | 18 14 | 12 49 | 0 16 | 3 37 |
| W 7 | 15 16 | 9 20 | 2 0 | 21 26 | 0 3 | 20 45 | 0 32 | 23 52 | 0 24 | 15 56 | 1 10 | 2 16 | 2 21 | 4 33 | 0 44 | 18 21 | 0 1 | 20 9 | 3 15 | 18 7 | 18 14 | 12 46 | 0 17 | 3 37 |
| T 8 | 14 57 | 4 5 | 2 57 | 21 23 | 0s 6 | 20 31 | 0 34 | 23 52 | 0 25 | 15 57 | 1 10 | 2 18 | 2 21 | 4 32 | 0 44 | 18 20 | 0 1 | 20 10 | 3 15 | 18 7 | 18 15 | 12 43 | 0 18 | 3 37 |
| F 9 | 14 38 | 1n18 | 3 48 | 21 19 | 0 15 | 20 17 | 0 37 | 23 52 | 0 26 | 15 59 | 1 11 | 2 20 | 2 21 | 4 31 | 0 44 | 18 20 | 0 1 | 20 10 | 3 15 | 18 8 | 18 16 | 12 40 | 0 19 | 3 37 |
| S 10 | 14 18 | 6 42 | 4 28 | 21 13 | 0 24 | 20 1 | 0 39 | 23 51 | 0 27 | 15 59 | 1 11 | 2 23 | 2 21 | 4 30 | 0 44 | 18 19 | 0 1 | 20 10 | 3 14 | 18 8 | 18 17 | 12 37 | 0 20 | 3 37 |
| S 11 | 13 59 | 11 54 | 4 58 | 21 6 | 0 32 | 19 46 | 0 41 | 23 50 | 0 27 | 16 0 | 1 11 | 2 25 | 2 20 | 4 28 | 0 44 | 18 18 | 0 1 | 20 10 | 3 14 | 18 9 | 18 18 | 12 34 | 0 22 | 3 37 |
| M12 | 13 39 | 16 44 | 5 14 | 20 58 | 0 40 | 19 30 | 0 43 | 23 49 | 0 28 | 16 1 | 1 11 | 2 28 | 2 20 | 4 27 | 0 44 | 18 18 | 0 1 | 20 10 | 3 14 | 18 9 | 18 18 | 12 31 | 0 23 | 3 36 |
| T 13 | 13 19 | 20 57 | 5 15 | 20 49 | 0 48 | 19 13 | 0 45 | 23 48 | 0 29 | 16 2 | 1 11 | 2 30 | 2 20 | 4 26 | 0 44 | 18 17 | 0 1 | 20 10 | 3 14 | 18 9 | 18 19 | 12 28 | 0 24 | 3 36 |
| W14 | 12 58 | 24 17 | 5 1 | 20 38 | 0 55 | 18 55 | 0 48 | 23 47 | 0 30 | 16 3 | 1 11 | 2 33 | 2 20 | 4 25 | 0 44 | 18 17 | 0 1 | 20 10 | 3 14 | 18 9 | 18 20 | 12 25 | 0 25 | 3 36 |
| T 15 | 12 38 | 26 26 | 4 31 | 20 27 | 1 2 | 18 38 | 0 50 | 23 45 | 0 31 | 16 4 | 1 11 | 2 35 | 2 20 | 4 23 | 0 44 | 18 16 | 0 1 | 20 11 | 3 14 | 18 9 | 18 21 | 12 22 | 0 26 | 3 36 |
| F 16 | 12 17 | 27 3 | 3 44 | 20 14 | 1 9 | 18 19 | 0 52 | 23 43 | 0 32 | 16 4 | 1 12 | 2 38 | 2 20 | 4 22 | 0 44 | 18 16 | 0 1 | 20 11 | 3 14 | 18 9 | 18 22 | 12 19 | 0 28 | 3 36 |
| S 17 | 11 56 | 25 58 | 2 43 | 19 59 | 1 16 | 18 0 | 0 54 | 23 41 | 0 32 | 16 5 | 1 12 | 2 40 | 2 19 | 4 21 | 0 44 | 18 15 | 0 1 | 20 11 | 3 14 | 18 9 | 18 23 | 12 16 | 0 29 | 3 36 |
| S 18 | 11 35 | 23 6 | 1 29 | 19 44 | 1 22 | 17 41 | 0 56 | 23 38 | 0 33 | 16 6 | 1 12 | 2 43 | 2 19 | 4 19 | 0 44 | 18 15 | 0 1 | 20 11 | 3 14 | 18 8 | 18 23 | 12 13 | 0 30 | 3 35 |
| M19 | 11 14 | 18 38 | 0 8 | 19 27 | 1 28 | 17 21 | 0 57 | 23 36 | 0 34 | 16 6 | 1 12 | 2 46 | 2 19 | 4 18 | 0 44 | 18 14 | 0 1 | 20 11 | 3 13 | 18 8 | 18 24 | 12 10 | 0 31 | 3 35 |
| T 20 | 10 52 | 12 54 | 1s15 | 19 8 | 1 33 | 17 0 | 0 59 | 23 33 | 0 35 | 16 7 | 1 12 | 2 48 | 2 19 | 4 17 | 0 44 | 18 13 | 0 1 | 20 11 | 3 13 | 18 8 | 18 25 | 12 7 | 0 32 | 3 35 |
| W21 | 10 30 | 6 22 | 2 33 | 18 49 | 1 38 | 16 39 | 1 1 | 23 30 | 0 36 | 16 7 | 1 12 | 2 51 | 2 19 | 4 16 | 0 44 | 18 13 | 0 1 | 20 11 | 3 13 | 18 9 | 18 26 | 12 4 | 0 34 | 3 35 |
| T 22 | 10 9 | 0s30 | 3 40 | 18 28 | 1 43 | 16 18 | 1 3 | 23 26 | 0 37 | 16 7 | 1 13 | 2 53 | 2 19 | 4 14 | 0 44 | 18 12 | 0 1 | 20 12 | 3 13 | 18 10 | 18 27 | 12 1 | 0 35 | 3 35 |
| F 23 | 9 47 | 7 12 | 4 30 | 18 5 | 1 48 | 15 56 | 1 4 | 23 23 | 0 38 | 16 8 | 1 13 | 2 56 | 2 19 | 4 13 | 0 44 | 18 12 | 0 1 | 20 12 | 3 13 | 18 10 | 18 27 | 11 58 | 0 36 | 3 35 |
| S 24 | 9 25 | 13 21 | 5 2 | 17 42 | 1 52 | 15 34 | 1 6 | 23 19 | 0 38 | 16 8 | 1 13 | 2 59 | 2 18 | 4 12 | 0 44 | 18 11 | 0 1 | 20 12 | 3 13 | 18 11 | 18 28 | 11 55 | 0 38 | 3 35 |
| S 25 | 9 2 | 18 36 | 5 14 | 17 17 | 1 55 | 15 11 | 1 8 | 23 15 | 0 39 | 16 8 | 1 13 | 3 1 | 2 18 | 4 10 | 0 44 | 18 11 | 0 1 | 20 12 | 3 13 | 18 12 | 18 29 | 11 52 | 0 39 | 3 35 |
| M26 | 8 40 | 22 43 | 5 8 | 16 51 | 1 59 | 14 48 | 1 9 | 23 11 | 0 40 | 16 8 | 1 13 | 3 4 | 2 18 | 4 9 | 0 44 | 18 10 | 0 1 | 20 12 | 3 13 | 18 13 | 18 30 | 11 49 | 0 40 | 3 34 |
| T 27 | 8 17 | 25 30 | 4 45 | 16 23 | 2 2 | 14 24 | 1 11 | 23 6 | 0 41 | 16 9 | 1 13 | 3 7 | 2 18 | 4 8 | 0 44 | 18 10 | 0 1 | 20 12 | 3 12 | 18 13 | 18 31 | 11 46 | 0 42 | 3 34 |
| W28 | 7s55 | 26s52 | 4s 9 | 15s54 | 2s 4 | 14s 0 | 1s12 | 23s 2 | 0s42 | 16s 9 | 1n14 | 3n10 | 2s18 | 4s 6 | 0s44 | 18s 9 | 0n 1 | 20n12 | 3s12 | 18s13 | 18s32 | 11s43 | 0n43 | 3n34 |

Julian Day Number = 2332507.5, Delta T = 27.17 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'28, Lahiri = 19°18'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## MARCH 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 36 16 | 10♓47'14 | 28♐21 | 24♒25 | 27♒14 | 18♑15 | 18♏22 | 13♈27 | 21♓24 | 8♒31 | 4°R22 | 8♒19 | 7♒ 4 | 25♒ 6 | 23♓37 | T 1 |
| F 2 | 10 40 13 | 11°47'17 | 10♑29 | 26° 4 | 28°29 | 18°59 | 18°22 | 13°34 | 21°28 | 8°33 | 4♋22 | 8°21 | 7° 1 | 25°13 | 23°40 | F 2 |
| S 3 | 10 44 10 | 12°47'18 | 22°26 | 27°43 | 29°44 | 19°43 | 18°23 | 13°41 | 21°31 | 8°35 | 4°22 | 8°22 | 6°58 | 25°19 | 23°44 | S 3 |
| S 4 | 10 48 6 | 13°47'17 | 4♒16 | 29°24 | 0♓58 | 20°26 | 18°R23 | 13°48 | 21°34 | 8°37 | 4°21 | 8°R24 | 6°55 | 25°26 | 23°48 | S 4 |
| M 5 | 10 52 3 | 14°47'15 | 16° 2 | 1♓ 6 | 2°13 | 21°10 | 18°23 | 13°55 | 21°38 | 8°39 | 4°21 | 8°23 | 6°52 | 25°33 | 23°51 | M 5 |
| T 6 | 10 55 59 | 15°47'11 | 27°49 | 2°49 | 3°28 | 21°54 | 18°22 | 14° 2 | 21°41 | 8°41 | 4°21 | 8°21 | 6°48 | 25°39 | 23°55 | T 6 |
| W 7 | 10 59 56 | 16°47'05 | 9♓38 | 4°33 | 4°42 | 22°38 | 18°22 | 14° 9 | 21°45 | 8°43 | 4°20 | 8°17 | 6°45 | 25°46 | 23°59 | W 7 |
| T 8 | 11 3 52 | 17°46'57 | 21°33 | 6°18 | 5°57 | 23°22 | 18°21 | 14°16 | 21°48 | 8°45 | 4°20 | 8°12 | 6°42 | 25°53 | 24° 2 | T 8 |
| F 9 | 11 7 49 | 18°46'47 | 3♈34 | 8° 4 | 7°12 | 24° 6 | 18°20 | 14°23 | 21°51 | 8°47 | 4°20 | 8° 5 | 6°39 | 25°59 | 24° 6 | F 9 |
| S 10 | 11 11 45 | 19°46'35 | 15°43 | 9°52 | 8°26 | 24°50 | 18°19 | 14°30 | 21°55 | 8°49 | 4°20 | 7°57 | 6°36 | 26° 6 | 24°10 | S 10 |
| S 11 | 11 15 42 | 20°46'21 | 28° 2 | 11°41 | 9°41 | 25°34 | 18°18 | 14°37 | 21°58 | 8°50 | 4°19 | 7°49 | 6°33 | 26°13 | 24°13 | S 11 |
| M12 | 11 19 38 | 21°46'04 | 10♉32 | 13°31 | 10°56 | 26°18 | 18°17 | 14°45 | 22° 2 | 8°52 | 4°19 | 7°41 | 6°29 | 26°19 | 24°17 | M12 |
| T 13 | 11 23 35 | 22°45'46 | 23°15 | 15°22 | 12°10 | 27° 2 | 18°15 | 14°52 | 22° 5 | 8°54 | 4°19 | 7°36 | 6°26 | 26°26 | 24°21 | T 13 |
| W14 | 11 27 32 | 23°45'25 | 6♊13 | 17°14 | 13°25 | 27°46 | 18°13 | 14°59 | 22° 9 | 8°56 | 4°19 | 7°32 | 6°23 | 26°33 | 24°25 | W14 |
| T 15 | 11 31 28 | 24°45'02 | 19°27 | 19° 8 | 14°39 | 28°30 | 18°11 | 15° 6 | 22°12 | 8°57 | 4°19 | 7°D31 | 6°20 | 26°39 | 24°28 | T 15 |
| F 16 | 11 35 25 | 25°44'37 | 3♋ 2 | 21° 3 | 15°54 | 29°14 | 18° 9 | 15°14 | 22°16 | 8°59 | 4°19 | 7°31 | 6°17 | 26°46 | 24°32 | F 16 |
| S 17 | 11 39 21 | 26°44'10 | 16°57 | 22°59 | 17° 8 | 29°58 | 18° 7 | 15°21 | 22°19 | 9° 1 | 4°19 | 7°32 | 6°13 | 26°53 | 24°36 | S 17 |
| S 18 | 11 43 18 | 27°43'40 | 1♌13 | 24°56 | 18°23 | 0♒43 | 18° 4 | 15°28 | 22°22 | 9° 2 | 4°D19 | 7°R33 | 6°10 | 26°59 | 24°39 | S 18 |
| M19 | 11 47 14 | 28°43'07 | 15°50 | 26°54 | 19°38 | 1°27 | 18° 1 | 15°36 | 22°26 | 9° 4 | 4°19 | 7°33 | 6° 7 | 27° 6 | 24°43 | M19 |
| T 20 | 11 51 11 | 29°42'33 | 0♍43 | 28°53 | 20°52 | 2°11 | 17°59 | 15°43 | 22°29 | 9° 6 | 4°19 | 7°31 | 6° 4 | 27°13 | 24°47 | T 20 |
| W21 | 11 55 7 | 0♈41'56 | 15°45 | 0♈53 | 22° 7 | 2°55 | 17°56 | 15°51 | 22°33 | 9° 7 | 4°19 | 7°26 | 6° 1 | 27°19 | 24°50 | W21 |
| T 22 | 11 59 4 | 1°41'17 | 0♎49 | 2°54 | 23°21 | 3°39 | 17°52 | 15°58 | 22°36 | 9° 9 | 4°19 | 7°20 | 5°58 | 27°26 | 24°54 | T 22 |
| F 23 | 12 3 1 | 2°40'35 | 15°44 | 4°56 | 24°36 | 4°23 | 17°49 | 16° 6 | 22°39 | 9°10 | 4°19 | 7°11 | 5°54 | 27°33 | 24°58 | F 23 |
| S 24 | 12 6 57 | 3°39'52 | 0♏22 | 6°59 | 25°50 | 5° 8 | 17°45 | 16°13 | 22°43 | 9°12 | 4°19 | 7° 2 | 5°51 | 27°39 | 25° 1 | S 24 |
| S 25 | 12 10 54 | 4°39'07 | 14°35 | 9° 2 | 27° 4 | 5°52 | 17°42 | 16°21 | 22°46 | 9°13 | 4°19 | 6°54 | 5°48 | 27°46 | 25° 5 | S 25 |
| M26 | 12 14 50 | 5°38'21 | 28°21 | 11° 5 | 28°19 | 6°36 | 17°38 | 16°28 | 22°50 | 9°15 | 4°20 | 6°46 | 5°45 | 27°52 | 25° 9 | M26 |
| T 27 | 12 18 47 | 6°37'32 | 11♐38 | 13° 8 | 29°33 | 7°20 | 17°34 | 16°36 | 22°53 | 9°16 | 4°20 | 6°41 | 5°42 | 27°59 | 25°12 | T 27 |
| W28 | 12 22 43 | 7°36'42 | 24°28 | 15°11 | 0♈48 | 8° 5 | 17°29 | 16°43 | 22°56 | 9°18 | 4°20 | 6°38 | 5°39 | 28° 6 | 25°16 | W28 |
| T 29 | 12 26 40 | 8°35'50 | 6♑55 | 17°13 | 2° 2 | 8°49 | 17°25 | 16°51 | 23° 0 | 9°19 | 4°20 | 6°D37 | 5°35 | 28°12 | 25°20 | T 29 |
| F 30 | 12 30 36 | 9°34'56 | 19° 4 | 19°15 | 3°16 | 9°33 | 17°20 | 16°58 | 23° 3 | 9°21 | 4°21 | 6°38 | 5°32 | 28°19 | 25°23 | F 30 |
| S 31 | 12 34 33 | 10♈34'00 | 1♒ 0 | 21♈15 | 4♈31 | 10♒18 | 17♏16 | 17♈ 6 | 23♓ 6 | 9♒22 | 4♋21 | 6°R38 | 5♒29 | 28♒26 | 25♓27 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s32 | 26s50 | 3s22 | 15s24 | 2s 7 | 13s36 | 1s13 | 22s57 | 0s43 | 16s 9 | 1n14 | 3n12 | 2s18 | 4s 5 | 0s44 | 18s 9 | 0n 1 | 20n13 | 3s12 | 18s13 | 18s32 | 11s40 | 0n44 | 3n34 |
| F 2 | 7 9 | 25 31 | 2 27 | 14 52 | 2 8 | 13 11 | 1 15 | 22 51 | 0 44 | 16 9 | 1 14 | 3 15 | 2 18 | 4 4 | 0 44 | 18 8 | 0 1 | 20 13 | 3 12 | 18 13 | 18 33 | 11 37 | 0 46 | 3 34 |
| S 3 | 6 46 | 23 2 | 1 26 | 14 19 | 2 10 | 12 46 | 1 16 | 22 46 | 0 45 | 16 9 | 1 14 | 3 18 | 2 18 | 4 2 | 0 44 | 18 8 | 0 1 | 20 13 | 3 12 | 18 12 | 18 34 | 11 34 | 0 47 | 3 34 |
| S 4 | 6 23 | 19 36 | 0 23 | 13 45 | 2 11 | 12 21 | 1 17 | 22 40 | 0 45 | 16 8 | 1 14 | 3 21 | 2 17 | 4 1 | 0 44 | 18 7 | 0 1 | 20 13 | 3 12 | 18 12 | 18 35 | 11 31 | 0 48 | 3 34 |
| M 5 | 6 0 | 15 24 | 0n42 | 13 9 | 2 11 | 11 55 | 1 18 | 22 35 | 0 46 | 16 8 | 1 14 | 3 23 | 2 17 | 3 59 | 0 44 | 18 7 | 0 1 | 20 13 | 3 12 | 18 12 | 18 36 | 11 28 | 0 50 | 3 34 |
| T 6 | 5 37 | 10 38 | 1 44 | 12 32 | 2 11 | 11 29 | 1 19 | 22 28 | 0 47 | 16 8 | 1 15 | 3 26 | 2 17 | 3 58 | 0 43 | 18 6 | 0 1 | 20 13 | 3 12 | 18 13 | 18 36 | 11 25 | 0 51 | 3 34 |
| W 7 | 5 14 | 5 28 | 2 42 | 11 54 | 2 11 | 11 3 | 1 20 | 22 22 | 0 48 | 16 8 | 1 15 | 3 29 | 2 17 | 3 57 | 0 43 | 18 6 | 0 1 | 20 13 | 3 11 | 18 14 | 18 37 | 11 22 | 0 52 | 3 34 |
| T 8 | 4 50 | 0 6 | 3 33 | 11 14 | 2 10 | 10 36 | 1 21 | 22 16 | 0 49 | 16 7 | 1 15 | 3 32 | 2 17 | 3 55 | 0 43 | 18 5 | 0 1 | 20 14 | 3 11 | 18 15 | 18 38 | 11 19 | 0 54 | 3 33 |
| F 9 | 4 27 | 5n19 | 4 15 | 10 33 | 2 9 | 10 9 | 1 22 | 22 9 | 0 50 | 16 7 | 1 15 | 3 35 | 2 17 | 3 54 | 0 43 | 18 5 | 0 1 | 20 14 | 3 11 | 18 17 | 18 39 | 11 16 | 0 55 | 3 33 |
| S 10 | 4 3 | 10 36 | 4 46 | 9 51 | 2 7 | 9 42 | 1 23 | 22 2 | 0 51 | 16 7 | 1 15 | 3 38 | 2 17 | 3 53 | 0 43 | 18 4 | 0 1 | 20 14 | 3 11 | 18 19 | 18 40 | 11 13 | 0 56 | 3 33 |
| S 11 | 3 40 | 15 32 | 5 4 | 9 7 | 2 5 | 9 14 | 1 23 | 21 55 | 0 52 | 16 6 | 1 15 | 3 40 | 2 17 | 3 51 | 0 43 | 18 4 | 0 1 | 20 14 | 3 11 | 18 21 | 18 40 | 11 10 | 0 58 | 3 33 |
| M12 | 3 16 | 19 53 | 5 8 | 8 22 | 2 2 | 8 47 | 1 24 | 21 47 | 0 53 | 16 6 | 1 15 | 3 43 | 2 17 | 3 50 | 0 43 | 18 3 | 0 1 | 20 14 | 3 11 | 18 23 | 18 41 | 11 7 | 0 59 | 3 33 |
| T 13 | 2 53 | 23 25 | 4 57 | 7 36 | 1 59 | 8 19 | 1 25 | 21 40 | 0 54 | 16 5 | 1 16 | 3 46 | 2 17 | 3 49 | 0 43 | 18 3 | 0 1 | 20 14 | 3 11 | 18 24 | 18 42 | 11 4 | 1 1 | 3 33 |
| W14 | 2 29 | 25 50 | 4 31 | 6 49 | 1 55 | 7 50 | 1 25 | 21 32 | 0 54 | 16 4 | 1 16 | 3 49 | 2 16 | 3 47 | 0 43 | 18 2 | 0 1 | 20 14 | 3 10 | 18 25 | 18 43 | 11 1 | 1 2 | 3 33 |
| T 15 | 2 5 | 26 53 | 3 50 | 6 1 | 1 51 | 7 22 | 1 26 | 21 24 | 0 55 | 16 4 | 1 16 | 3 52 | 2 16 | 3 46 | 0 43 | 18 2 | 0 1 | 20 15 | 3 10 | 18 26 | 18 43 | 10 58 | 1 3 | 3 33 |
| F 16 | 1 42 | 26 22 | 2 55 | 5 11 | 1 46 | 6 53 | 1 26 | 21 16 | 0 56 | 16 3 | 1 16 | 3 55 | 2 16 | 3 45 | 0 43 | 18 2 | 0 1 | 20 15 | 3 10 | 18 26 | 18 44 | 10 55 | 1 5 | 3 33 |
| S 17 | 1 18 | 24 12 | 1 49 | 4 20 | 1 41 | 6 25 | 1 26 | 21 7 | 0 57 | 16 2 | 1 16 | 3 58 | 2 16 | 3 43 | 0 43 | 18 1 | 0 1 | 20 15 | 3 10 | 18 25 | 18 45 | 10 52 | 1 6 | 3 33 |
| S 18 | 0 54 | 20 29 | 0 34 | 3 28 | 1 35 | 5 56 | 1 27 | 20 59 | 0 58 | 16 1 | 1 16 | 4 1 | 2 16 | 3 42 | 0 43 | 18 1 | 0 1 | 20 15 | 3 10 | 18 25 | 18 46 | 10 49 | 1 8 | 3 33 |
| M19 | 0 31 | 15 25 | 0s45 | 2 35 | 1 29 | 5 27 | 1 27 | 20 50 | 0 59 | 16 0 | 1 16 | 4 3 | 2 16 | 3 40 | 0 43 | 18 0 | 0 1 | 20 15 | 3 10 | 18 25 | 18 47 | 10 46 | 1 9 | 3 33 |
| T 20 | 0 7 | 9 21 | 2 1 | 1 42 | 1 22 | 4 57 | 1 27 | 20 41 | 1 0 | 16 0 | 1 17 | 4 6 | 2 16 | 3 39 | 0 43 | 18 0 | 0 1 | 20 15 | 3 10 | 18 26 | 18 47 | 10 43 | 1 11 | 3 33 |
| W21 | 0n17 | 2 42 | 3 10 | 0 47 | 1 14 | 4 28 | 1 27 | 20 32 | 1 1 | 15 59 | 1 17 | 4 9 | 2 16 | 3 38 | 0 43 | 17 59 | 0 1 | 20 15 | 3 10 | 18 27 | 18 48 | 10 40 | 1 12 | 3 33 |
| T 22 | 0 40 | 4s 5 | 4 6 | 0n 9 | 1 6 | 3 59 | 1 27 | 20 22 | 1 2 | 15 58 | 1 17 | 4 12 | 2 16 | 3 36 | 0 43 | 17 59 | 0 1 | 20 15 | 3 9 | 18 28 | 18 49 | 10 37 | 1 13 | 3 33 |
| F 23 | 1 4 | 10 35 | 4 45 | 1 5 | 0 58 | 3 29 | 1 27 | 20 13 | 1 3 | 15 56 | 1 17 | 4 15 | 2 16 | 3 35 | 0 43 | 17 59 | 0 1 | 20 16 | 3 9 | 18 31 | 18 50 | 10 34 | 1 15 | 3 33 |
| S 24 | 1 28 | 16 21 | 5 3 | 2 2 | 0 49 | 2 59 | 1 27 | 20 3 | 1 4 | 15 55 | 1 17 | 4 18 | 2 16 | 3 34 | 0 43 | 17 58 | 0 1 | 20 16 | 3 9 | 18 33 | 18 51 | 10 31 | 1 16 | 3 33 |
| S 25 | 1 51 | 21 4 | 5 3 | 2 59 | 0 39 | 2 29 | 1 27 | 19 53 | 1 5 | 15 54 | 1 17 | 4 21 | 2 16 | 3 32 | 0 43 | 17 58 | 0 1 | 20 16 | 3 9 | 18 35 | 18 51 | 10 28 | 1 18 | 3 32 |
| M26 | 2 15 | 24 27 | 4 44 | 3 56 | 0 29 | 2 0 | 1 26 | 19 43 | 1 5 | 15 53 | 1 17 | 4 24 | 2 16 | 3 31 | 0 43 | 17 58 | 0 1 | 20 16 | 3 9 | 18 37 | 18 52 | 10 25 | 1 19 | 3 32 |
| T 27 | 2 38 | 26 22 | 4 11 | 4 54 | 0 19 | 1 30 | 1 26 | 19 32 | 1 6 | 15 52 | 1 17 | 4 27 | 2 16 | 3 30 | 0 44 | 17 57 | 0 1 | 20 16 | 3 9 | 18 38 | 18 53 | 10 22 | 1 20 | 3 32 |
| W28 | 3 2 | 26 48 | 3 26 | 5 52 | 0 8 | 1 0 | 1 26 | 19 22 | 1 7 | 15 50 | 1 18 | 4 30 | 2 16 | 3 28 | 0 44 | 17 57 | 0 1 | 20 16 | 3 9 | 18 39 | 18 54 | 10 18 | 1 22 | 3 32 |
| T 29 | 3 25 | 25 50 | 2 32 | 6 49 | 0n 3 | 0 30 | 1 25 | 19 11 | 1 8 | 15 49 | 1 18 | 4 33 | 2 16 | 3 27 | 0 44 | 17 56 | 0 1 | 20 16 | 3 8 | 18 39 | 18 54 | 10 15 | 1 23 | 3 32 |
| F 30 | 3 48 | 23 39 | 1 33 | 7 46 | 0 14 | 0n 0 | 1 25 | 19 0 | 1 9 | 15 48 | 1 18 | 4 36 | 2 16 | 3 26 | 0 44 | 17 56 | 0 1 | 20 16 | 3 8 | 18 39 | 18 55 | 10 12 | 1 25 | 3 32 |
| S 31 | 4n11 | 20s28 | 0s30 | 8n42 | 0n25 | 0n31 | 1s24 | 18s49 | 1s10 | 15s46 | 1n18 | 4n38 | 2s16 | 3s25 | 0s44 | 17s56 | 0n 1 | 20n17 | 3s 8 | 18s39 | 18s56 | 10s 9 | 1n26 | 3n32 |

Julian Day Number = 2332535.5, Delta T = 27.13 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'31, Lahiri = 19°18'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## APRIL 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 38 30 | 11♈33'02 | 12♒48 | 23♈14 | 5♈45 | 11♒ 2 | 17°R11 | 17♈13 | 23♓10 | 9♒23 | 4♋21 | 6°R38 | 5♒26 | 28♒32 | 25♓30 | S 1 |
| M 2 | 12 42 26 | 12°32'03 | 24°35 | 25°11 | 7° 0 | 11°46 | 17♏ 6 | 17°21 | 23°13 | 9°24 | 4°22 | 6♒37 | 5°23 | 28°39 | 25°34 | M 2 |
| T 3 | 12 46 23 | 13°31'02 | 6♓23 | 27° 6 | 8°14 | 12°31 | 17° 1 | 17°29 | 23°16 | 9°26 | 4°22 | 6°32 | 5°19 | 28°46 | 25°38 | T 3 |
| W 4 | 12 50 19 | 14°29'58 | 18°17 | 28°58 | 9°28 | 13°15 | 16°55 | 17°36 | 23°19 | 9°27 | 4°22 | 6°26 | 5°16 | 28°52 | 25°41 | W 4 |
| T 5 | 12 54 16 | 15°28'53 | 0♈19 | 0♉46 | 10°43 | 13°59 | 16°50 | 17°44 | 23°23 | 9°28 | 4°23 | 6°16 | 5°13 | 28°59 | 25°45 | T 5 |
| F 6 | 12 58 12 | 16°27'46 | 12°31 | 2°32 | 11°57 | 14°44 | 16°44 | 17°51 | 23°26 | 9°29 | 4°23 | 6° 5 | 5°10 | 29° 6 | 25°48 | F 6 |
| S 7 | 13 2 9 | 17°26'37 | 24°54 | 4°14 | 13°11 | 15°28 | 16°39 | 17°59 | 23°29 | 9°30 | 4°24 | 5°52 | 5° 7 | 29°12 | 25°52 | S 7 |
| S 8 | 13 6 5 | 18°25'26 | 7♉29 | 5°52 | 14°26 | 16°12 | 16°33 | 18° 7 | 23°32 | 9°32 | 4°24 | 5°40 | 5° 4 | 29°19 | 25°55 | S 8 |
| M 9 | 13 10 2 | 19°24'13 | 20°16 | 7°26 | 15°40 | 16°57 | 16°27 | 18°14 | 23°35 | 9°33 | 4°25 | 5°28 | 5° 0 | 29°26 | 25°59 | M 9 |
| T 10 | 13 13 59 | 20°22'58 | 3♊15 | 8°55 | 16°54 | 17°41 | 16°21 | 18°22 | 23°39 | 9°34 | 4°25 | 5°18 | 4°57 | 29°32 | 26° 2 | T 10 |
| W11 | 13 17 55 | 21°21'41 | 16°25 | 10°20 | 18° 8 | 18°25 | 16°14 | 18°30 | 23°42 | 9°35 | 4°26 | 5°11 | 4°54 | 29°39 | 26° 5 | W11 |
| T 12 | 13 21 52 | 22°20'21 | 29°47 | 11°40 | 19°23 | 19°10 | 16° 8 | 18°37 | 23°45 | 9°36 | 4°26 | 5° 7 | 4°51 | 29°46 | 26° 9 | T 12 |
| F 13 | 13 25 48 | 23°18'59 | 13♋23 | 12°54 | 20°37 | 19°54 | 16° 2 | 18°45 | 23°48 | 9°37 | 4°27 | 5° 6 | 4°48 | 29°52 | 26°12 | F 13 |
| S 14 | 13 29 45 | 24°17'35 | 27°12 | 14° 4 | 21°51 | 20°38 | 15°55 | 18°52 | 23°51 | 9°38 | 4°27 | 5° 5 | 4°44 | 29°59 | 26°16 | S 14 |
| S 15 | 13 33 41 | 25°16'09 | 11♌17 | 15° 8 | 23° 5 | 21°23 | 15°48 | 19° 0 | 23°54 | 9°38 | 4°28 | 5° 5 | 4°41 | 0♓ 6 | 26°19 | S 15 |
| M16 | 13 37 38 | 26°14'41 | 25°35 | 16° 7 | 24°19 | 22° 7 | 15°42 | 19° 8 | 23°57 | 9°39 | 4°29 | 5° 4 | 4°38 | 0°12 | 26°22 | M16 |
| T 17 | 13 41 34 | 27°13'10 | 10♍ 7 | 17° 1 | 25°33 | 22°52 | 15°35 | 19°15 | 24° 0 | 9°40 | 4°29 | 5° 1 | 4°35 | 0°19 | 26°26 | T 17 |
| W18 | 13 45 31 | 28°11'37 | 24°46 | 17°49 | 26°48 | 23°36 | 15°28 | 19°23 | 24° 3 | 9°41 | 4°30 | 4°55 | 4°32 | 0°26 | 26°29 | W18 |
| T 19 | 13 49 28 | 29°10'02 | 9♎28 | 18°31 | 28° 2 | 24°20 | 15°21 | 19°30 | 24° 6 | 9°42 | 4°31 | 4°46 | 4°29 | 0°32 | 26°32 | T 19 |
| F 20 | 13 53 24 | 0♉ 8'25 | 24° 6 | 19° 8 | 29°16 | 25° 5 | 15°14 | 19°38 | 24° 9 | 9°42 | 4°31 | 4°36 | 4°25 | 0°39 | 26°35 | F 20 |
| S 21 | 13 57 21 | 1° 6'46 | 8♏31 | 19°39 | 0♉30 | 25°49 | 15° 7 | 19°45 | 24°12 | 9°43 | 4°32 | 4°24 | 4°22 | 0°46 | 26°38 | S 21 |
| S 22 | 14 1 17 | 2° 5'05 | 22°37 | 20° 4 | 1°44 | 26°33 | 14°59 | 19°53 | 24°15 | 9°44 | 4°33 | 4°12 | 4°19 | 0°52 | 26°42 | S 22 |
| M23 | 14 5 14 | 3° 3'23 | 6♐19 | 20°24 | 2°58 | 27°18 | 14°52 | 20° 0 | 24°18 | 9°44 | 4°34 | 4° 2 | 4°16 | 0°59 | 26°45 | M23 |
| T 24 | 14 9 10 | 4° 1'39 | 19°36 | 20°38 | 4°12 | 28° 2 | 14°45 | 20° 8 | 24°21 | 9°45 | 4°35 | 3°55 | 4°13 | 1° 6 | 26°48 | T 24 |
| W25 | 14 13 7 | 4°59'53 | 2♑28 | 20°46 | 5°26 | 28°46 | 14°37 | 20°15 | 24°23 | 9°46 | 4°35 | 3°50 | 4°10 | 1°12 | 26°51 | W25 |
| T 26 | 14 17 3 | 5°58'06 | 14°58 | 20°R49 | 6°40 | 29°31 | 14°30 | 20°23 | 24°26 | 9°46 | 4°36 | 3°47 | 4° 6 | 1°19 | 26°54 | T 26 |
| F 27 | 14 21 0 | 6°56'18 | 27° 9 | 20°46 | 7°54 | 0♓15 | 14°22 | 20°30 | 24°29 | 9°47 | 4°37 | 3°46 | 4° 3 | 1°26 | 26°57 | F 27 |
| S 28 | 14 24 57 | 7°54'28 | 9♒ 7 | 20°39 | 9° 8 | 0°59 | 14°15 | 20°37 | 24°32 | 9°47 | 4°38 | 3°46 | 4° 0 | 1°32 | 27° 0 | S 28 |
| S 29 | 14 28 53 | 8°52'36 | 20°57 | 20°26 | 10°22 | 1°43 | 14° 7 | 20°45 | 24°34 | 9°48 | 4°39 | 3°46 | 3°57 | 1°39 | 27° 3 | S 29 |
| M30 | 14 32 50 | 9♉50'43 | 2♓45 | 20♉ 9 | 11♉36 | 2♓28 | 14♏ 0 | 20♈52 | 24♓37 | 9♒48 | 4♋40 | 3♒44 | 3♒54 | 1♓46 | 27♓ 6 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n35 | 16s28 | 0n33 | 9n37 | 0n37 | 1n 1 | 1s24 | 18s38 | 1s11 | 15s45 | 1n18 | 4n41 | 2s16 | 3s23 | 0s44 | 17s55 | 0n 1 | 20n17 | 3s 8 | 18s39 | 18s57 | 10s 6 | 1n28 | 3n32 |
| M 2 | 4 58 | 11 52 | 1 34 | 10 31 | 0 48 | 1 31 | 1 23 | 18 26 | 1 12 | 15 43 | 1 18 | 4 44 | 2 16 | 3 22 | 0 44 | 17 55 | 0 1 | 20 17 | 3 8 | 18 39 | 18 58 | 10 3 | 1 29 | 3 32 |
| T 3 | 5 21 | 6 50 | 2 32 | 11 23 | 1 0 | 2 1 | 1 22 | 18 15 | 1 13 | 15 42 | 1 18 | 4 47 | 2 16 | 3 21 | 0 44 | 17 55 | 0 1 | 20 17 | 3 8 | 18 40 | 18 58 | 10 0 | 1 30 | 3 32 |
| W 4 | 5 44 | 1 32 | 3 23 | 12 14 | 1 11 | 2 31 | 1 21 | 18 3 | 1 14 | 15 40 | 1 18 | 4 50 | 2 15 | 3 19 | 0 44 | 17 54 | 0 1 | 20 17 | 3 8 | 18 42 | 18 59 | 9 57 | 1 32 | 3 32 |
| T 5 | 6 6 | 3n52 | 4 5 | 13 3 | 1 22 | 3 1 | 1 21 | 17 51 | 1 15 | 15 39 | 1 18 | 4 53 | 2 15 | 3 18 | 0 44 | 17 54 | 0 1 | 20 17 | 3 8 | 18 44 | 19 0 | 9 54 | 1 33 | 3 32 |
| F 6 | 6 29 | 9 12 | 4 37 | 13 50 | 1 33 | 3 31 | 1 20 | 17 39 | 1 16 | 15 37 | 1 18 | 4 56 | 2 15 | 3 17 | 0 44 | 17 54 | 0 1 | 20 17 | 3 7 | 18 47 | 19 1 | 9 51 | 1 35 | 3 32 |
| S 7 | 6 52 | 14 15 | 4 56 | 14 34 | 1 43 | 4 1 | 1 19 | 17 27 | 1 17 | 15 35 | 1 18 | 4 59 | 2 15 | 3 16 | 0 44 | 17 54 | 0 1 | 20 17 | 3 7 | 18 50 | 19 1 | 9 48 | 1 36 | 3 32 |
| S 8 | 7 14 | 18 47 | 5 1 | 15 17 | 1 53 | 4 30 | 1 18 | 17 14 | 1 17 | 15 34 | 1 19 | 5 2 | 2 15 | 3 14 | 0 44 | 17 53 | 0 1 | 20 18 | 3 7 | 18 53 | 19 2 | 9 45 | 1 37 | 3 32 |
| M 9 | 7 36 | 22 31 | 4 52 | 15 57 | 2 3 | 5 0 | 1 17 | 17 2 | 1 18 | 15 32 | 1 19 | 5 5 | 2 15 | 3 13 | 0 44 | 17 53 | 0 1 | 20 18 | 3 7 | 18 56 | 19 3 | 9 42 | 1 39 | 3 32 |
| T 10 | 7 59 | 25 12 | 4 27 | 16 34 | 2 11 | 5 30 | 1 15 | 16 49 | 1 19 | 15 30 | 1 19 | 5 7 | 2 15 | 3 12 | 0 44 | 17 53 | 0 1 | 20 18 | 3 7 | 18 59 | 19 4 | 9 39 | 1 40 | 3 32 |
| W11 | 8 21 | 26 34 | 3 48 | 17 9 | 2 19 | 5 59 | 1 14 | 16 36 | 1 20 | 15 28 | 1 19 | 5 10 | 2 15 | 3 11 | 0 44 | 17 52 | 0 1 | 20 18 | 3 7 | 19 0 | 19 5 | 9 36 | 1 41 | 3 32 |
| T 12 | 8 43 | 26 24 | 2 55 | 17 41 | 2 27 | 6 28 | 1 13 | 16 23 | 1 21 | 15 26 | 1 19 | 5 13 | 2 16 | 3 9 | 0 44 | 17 52 | 0 1 | 20 18 | 3 7 | 19 1 | 19 5 | 9 33 | 1 43 | 3 32 |
| F 13 | 9 4 | 24 40 | 1 52 | 18 10 | 2 33 | 6 58 | 1 12 | 16 10 | 1 22 | 15 24 | 1 19 | 5 16 | 2 16 | 3 8 | 0 44 | 17 52 | 0 1 | 20 18 | 3 7 | 19 2 | 19 6 | 9 29 | 1 44 | 3 32 |
| S 14 | 9 26 | 21 26 | 0 42 | 18 37 | 2 39 | 7 27 | 1 10 | 15 57 | 1 23 | 15 23 | 1 19 | 5 19 | 2 16 | 3 7 | 0 44 | 17 52 | 0 1 | 20 18 | 3 6 | 19 2 | 19 7 | 9 26 | 1 46 | 3 32 |
| S 15 | 9 48 | 16 54 | 0s33 | 19 1 | 2 44 | 7 55 | 1 9 | 15 44 | 1 24 | 15 21 | 1 19 | 5 22 | 2 16 | 3 6 | 0 44 | 17 51 | 0 1 | 20 18 | 3 6 | 19 2 | 19 8 | 9 23 | 1 47 | 3 32 |
| M16 | 10 9 | 11 21 | 1 46 | 19 22 | 2 47 | 8 24 | 1 7 | 15 30 | 1 25 | 15 19 | 1 19 | 5 25 | 2 16 | 3 5 | 0 44 | 17 51 | 0 1 | 20 18 | 3 6 | 19 2 | 19 8 | 9 20 | 1 48 | 3 32 |
| T 17 | 10 30 | 5 7 | 2 54 | 19 40 | 2 50 | 8 53 | 1 6 | 15 16 | 1 26 | 15 17 | 1 19 | 5 27 | 2 16 | 3 3 | 0 44 | 17 51 | 0 1 | 20 18 | 3 6 | 19 3 | 19 9 | 9 17 | 1 50 | 3 33 |
| W18 | 10 51 | 1s27 | 3 51 | 19 55 | 2 52 | 9 21 | 1 4 | 15 3 | 1 27 | 15 15 | 1 19 | 5 30 | 2 16 | 3 2 | 0 44 | 17 51 | 0 1 | 20 19 | 3 6 | 19 4 | 19 10 | 9 14 | 1 51 | 3 33 |
| T 19 | 11 12 | 7 56 | 4 32 | 20 8 | 2 52 | 9 49 | 1 3 | 14 49 | 1 28 | 15 13 | 1 19 | 5 33 | 2 16 | 3 1 | 0 44 | 17 51 | 0 1 | 20 19 | 3 6 | 19 6 | 19 11 | 9 11 | 1 52 | 3 33 |
| F 20 | 11 33 | 13 56 | 4 56 | 20 17 | 2 52 | 10 17 | 1 1 | 14 35 | 1 28 | 15 10 | 1 19 | 5 36 | 2 16 | 3 0 | 0 44 | 17 50 | 0 1 | 20 19 | 3 6 | 19 9 | 19 11 | 9 8 | 1 54 | 3 33 |
| S 21 | 11 53 | 19 5 | 5 0 | 20 24 | 2 50 | 10 44 | 0 59 | 14 20 | 1 29 | 15 8 | 1 19 | 5 39 | 2 16 | 2 59 | 0 44 | 17 50 | 0 1 | 20 19 | 3 6 | 19 12 | 19 12 | 9 5 | 1 55 | 3 33 |
| S 22 | 12 13 | 23 3 | 4 45 | 20 28 | 2 47 | 11 12 | 0 58 | 14 6 | 1 30 | 15 6 | 1 19 | 5 41 | 2 16 | 2 58 | 0 44 | 17 50 | 0 1 | 20 19 | 3 5 | 19 14 | 19 13 | 9 2 | 1 56 | 3 33 |
| M23 | 12 33 | 25 35 | 4 15 | 20 30 | 2 43 | 11 39 | 0 56 | 13 52 | 1 31 | 15 4 | 1 19 | 5 44 | 2 16 | 2 56 | 0 44 | 17 50 | 0 1 | 20 19 | 3 5 | 19 17 | 19 14 | 8 59 | 1 57 | 3 33 |
| T 24 | 12 53 | 26 35 | 3 31 | 20 28 | 2 37 | 12 6 | 0 54 | 13 37 | 1 32 | 15 2 | 1 19 | 5 47 | 2 16 | 2 55 | 0 44 | 17 50 | 0 1 | 20 19 | 3 5 | 19 19 | 19 14 | 8 56 | 1 59 | 3 33 |
| W25 | 13 13 | 26 5 | 2 38 | 20 24 | 2 31 | 12 32 | 0 52 | 13 23 | 1 33 | 15 0 | 1 19 | 5 50 | 2 16 | 2 54 | 0 44 | 17 50 | 0 1 | 20 19 | 3 5 | 19 20 | 19 15 | 8 52 | 2 0 | 3 33 |
| T 26 | 13 32 | 24 16 | 1 38 | 20 17 | 2 23 | 12 59 | 0 50 | 13 8 | 1 34 | 14 58 | 1 19 | 5 53 | 2 16 | 2 53 | 0 44 | 17 50 | 0 1 | 20 19 | 3 5 | 19 20 | 19 16 | 8 49 | 2 1 | 3 33 |
| F 27 | 13 51 | 21 20 | 0 35 | 20 7 | 2 14 | 13 25 | 0 48 | 12 53 | 1 35 | 14 56 | 1 19 | 5 55 | 2 16 | 2 52 | 0 44 | 17 49 | 0 1 | 20 19 | 3 5 | 19 21 | 19 17 | 8 46 | 2 3 | 3 33 |
| S 28 | 14 10 | 17 33 | 0n28 | 19 55 | 2 3 | 13 50 | 0 46 | 12 38 | 1 36 | 14 53 | 1 19 | 5 58 | 2 16 | 2 51 | 0 44 | 17 49 | 0 1 | 20 19 | 3 5 | 19 21 | 19 17 | 8 43 | 2 4 | 3 33 |
| S 29 | 14 29 | 13 7 | 1 30 | 19 41 | 1 52 | 14 15 | 0 44 | 12 23 | 1 37 | 14 51 | 1 19 | 6 1 | 2 16 | 2 50 | 0 44 | 17 49 | 0 1 | 20 20 | 3 5 | 19 21 | 19 18 | 8 40 | 2 5 | 3 33 |
| M30 | 14n48 | 8s13 | 2n27 | 19n24 | 1n39 | 14n40 | 0s42 | 12s 8 | 1s37 | 14s49 | 1n19 | 6n 3 | 2s16 | 2s49 | 0s44 | 17s49 | 0n 1 | 20n20 | 3s 4 | 19s21 | 19s19 | 8s37 | 2n 6 | 3n33 |

Julian Day Number = 2332566.5, Delta T = 27.07 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'36, Lahiri = 19°18'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## MAY 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 36 46 | 10♉48'48 | 14♓36 | 19°R48 | 12♉50 | 3♓12 | 13°R52 | 21♈ 0 | 24♓40 | 9♒48 | 4♋41 | 3°R40 | 3♒50 | 1♓52 | 27♓ 9 | T 1 |
| W 2 | 14 40 43 | 11°46'52 | 26°35 | 19♉23 | 14° 4 | 3°56 | 13♏44 | 21° 7 | 24°42 | 9°49 | 4°42 | 3♒34 | 3°47 | 1°59 | 27°12 | W 2 |
| T 3 | 14 44 39 | 12°44'55 | 8♈44 | 18°55 | 15°18 | 4°40 | 13°37 | 21°14 | 24°45 | 9°49 | 4°43 | 3°25 | 3°44 | 2° 6 | 27°14 | T 3 |
| F 4 | 14 48 36 | 13°42'56 | 21° 7 | 18°24 | 16°32 | 5°25 | 13°29 | 21°21 | 24°47 | 9°49 | 4°44 | 3°13 | 3°41 | 2°12 | 27°17 | F 4 |
| S 5 | 14 52 32 | 14°40'55 | 3♉45 | 17°51 | 17°46 | 6° 9 | 13°22 | 21°29 | 24°50 | 9°49 | 4°45 | 3° 1 | 3°38 | 2°19 | 27°20 | S 5 |
| S 6 | 14 56 29 | 15°38'54 | 16°38 | 17°16 | 19° 0 | 6°53 | 13°14 | 21°36 | 24°52 | 9°50 | 4°46 | 2°48 | 3°35 | 2°26 | 27°23 | S 6 |
| M 7 | 15 0 26 | 16°36'50 | 29°45 | 16°40 | 20°14 | 7°37 | 13° 6 | 21°43 | 24°55 | 9°50 | 4°47 | 2°36 | 3°31 | 2°32 | 27°25 | M 7 |
| T 8 | 15 4 22 | 17°34'45 | 13♊ 5 | 16° 4 | 21°27 | 8°21 | 12°59 | 21°50 | 24°57 | 9°50 | 4°48 | 2°27 | 3°28 | 2°39 | 27°28 | T 8 |
| W 9 | 15 8 19 | 18°32'39 | 26°36 | 15°28 | 22°41 | 9° 5 | 12°51 | 21°57 | 24°59 | 9°50 | 4°49 | 2°20 | 3°25 | 2°46 | 27°31 | W 9 |
| T 10 | 15 12 15 | 19°30'30 | 10♋17 | 14°54 | 23°55 | 9°49 | 12°43 | 22° 4 | 25° 2 | 9°50 | 4°50 | 2°16 | 3°22 | 2°52 | 27°33 | T 10 |
| F 11 | 15 16 12 | 20°28'20 | 24° 6 | 14°20 | 25° 9 | 10°33 | 12°36 | 22°11 | 25° 4 | 9°50 | 4°51 | 2°14 | 3°19 | 2°59 | 27°36 | F 11 |
| S 12 | 15 20 8 | 21°26'09 | 8♌ 2 | 13°49 | 26°23 | 11°17 | 12°28 | 22°18 | 25° 6 | 9°R50 | 4°52 | 2°D14 | 3°16 | 3° 6 | 27°38 | S 12 |
| S 13 | 15 24 5 | 22°23'55 | 22° 6 | 13°20 | 27°37 | 12° 1 | 12°21 | 22°25 | 25° 8 | 9°50 | 4°54 | 2°R14 | 3°12 | 3°12 | 27°41 | S 13 |
| M14 | 15 28 1 | 23°21'40 | 6♍15 | 12°55 | 28°51 | 12°45 | 12°13 | 22°32 | 25°11 | 9°50 | 4°55 | 2°13 | 3° 9 | 3°19 | 27°43 | M14 |
| T 15 | 15 31 58 | 24°19'23 | 20°30 | 12°32 | 0♊ 4 | 13°29 | 12° 6 | 22°39 | 25°13 | 9°50 | 4°56 | 2°11 | 3° 6 | 3°26 | 27°46 | T 15 |
| W16 | 15 35 55 | 25°17'04 | 4♎47 | 12°14 | 1°18 | 14°13 | 11°59 | 22°46 | 25°15 | 9°50 | 4°57 | 2° 6 | 3° 3 | 3°32 | 27°48 | W16 |
| T 17 | 15 39 51 | 26°14'44 | 19° 4 | 11°59 | 2°32 | 14°57 | 11°52 | 22°53 | 25°17 | 9°50 | 4°58 | 1°59 | 3° 0 | 3°39 | 27°50 | T 17 |
| F 18 | 15 43 48 | 27°12'22 | 3♏15 | 11°49 | 3°46 | 15°40 | 11°44 | 23° 0 | 25°19 | 9°50 | 5° 0 | 1°50 | 2°56 | 3°45 | 27°52 | F 18 |
| S 19 | 15 47 44 | 28° 9'59 | 17°16 | 11°42 | 4°59 | 16°24 | 11°37 | 23° 6 | 25°21 | 9°49 | 5° 1 | 1°40 | 2°53 | 3°52 | 27°55 | S 19 |
| S 20 | 15 51 41 | 29° 7'35 | 1♐ 2 | 11°D41 | 6°13 | 17° 8 | 11°30 | 23°13 | 25°23 | 9°49 | 5° 2 | 1°30 | 2°50 | 3°59 | 27°57 | S 20 |
| M21 | 15 55 37 | 0♊ 5'09 | 14°29 | 11°44 | 7°27 | 17°51 | 11°23 | 23°20 | 25°25 | 9°49 | 5° 3 | 1°21 | 2°47 | 4° 5 | 27°59 | M21 |
| T 22 | 15 59 34 | 1° 2'43 | 27°36 | 11°51 | 8°41 | 18°35 | 11°16 | 23°26 | 25°27 | 9°49 | 5° 5 | 1°14 | 2°44 | 4°12 | 28° 1 | T 22 |
| W23 | 16 3 30 | 2° 0'15 | 10♑23 | 12° 3 | 9°54 | 19°19 | 11°10 | 23°33 | 25°28 | 9°48 | 5° 6 | 1°10 | 2°41 | 4°19 | 28° 3 | W23 |
| T 24 | 16 7 27 | 2°57'46 | 22°50 | 12°19 | 11° 8 | 20° 2 | 11° 3 | 23°39 | 25°30 | 9°48 | 5° 7 | 1° 8 | 2°37 | 4°26 | 28° 5 | T 24 |
| F 25 | 16 11 24 | 3°55'17 | 5♒ 1 | 12°40 | 12°22 | 20°46 | 10°56 | 23°46 | 25°32 | 9°48 | 5° 8 | 1°D 8 | 2°34 | 4°32 | 28° 7 | F 25 |
| S 26 | 16 15 20 | 4°52'46 | 17° 0 | 13° 5 | 13°35 | 21°29 | 10°50 | 23°52 | 25°34 | 9°47 | 5°10 | 1° 8 | 2°31 | 4°39 | 28° 9 | S 26 |
| S 27 | 16 19 17 | 5°50'15 | 28°52 | 13°34 | 14°49 | 22°13 | 10°44 | 23°58 | 25°35 | 9°47 | 5°11 | 1° 9 | 2°28 | 4°46 | 28°11 | S 27 |
| M28 | 16 23 13 | 6°47'43 | 10♓42 | 14° 8 | 16° 3 | 22°56 | 10°37 | 24° 5 | 25°37 | 9°46 | 5°12 | 1°R 9 | 2°25 | 4°52 | 28°13 | M28 |
| T 29 | 16 27 10 | 7°45'10 | 22°35 | 14°45 | 17°16 | 23°39 | 10°31 | 24°11 | 25°38 | 9°46 | 5°14 | 1° 8 | 2°22 | 4°59 | 28°14 | T 29 |
| W30 | 16 31 6 | 8°42'36 | 4♈36 | 15°27 | 18°30 | 24°22 | 10°25 | 24°17 | 25°40 | 9°45 | 5°15 | 1° 5 | 2°18 | 5° 6 | 28°16 | W30 |
| T 31 | 16 35 3 | 9♊40'02 | 16♈50 | 16♉12 | 19♊44 | 25♓ 6 | 10♏19 | 24♈23 | 25♓41 | 9♒45 | 5♋16 | 0♒59 | 2♒15 | 5♓12 | 28♓18 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n 6 | 3s 1 | 3n18 | 19n 5 | 1n25 | 15n 5 | 0s40 | 11s53 | 1s38 | 14s47 | 1n19 | 6n 6 | 2s16 | 2s48 | 0s44 | 17s49 | 0n 1 | 20n20 | 3s 4 | 19s22 | 19s20 | 8s34 | 2n 7 | 3n33 |
| W 2 | 15 24 | 2n19 | 4 1 | 18 44 | 1 10 | 15 29 | 0 38 | 11 37 | 1 39 | 14 45 | 1 19 | 6 9 | 2 16 | 2 47 | 0 44 | 17 49 | 0 1 | 20 20 | 3 4 | 19 24 | 19 20 | 8 31 | 2 9 | 3 33 |
| T 3 | 15 42 | 7 40 | 4 34 | 18 22 | 0 55 | 15 53 | 0 36 | 11 22 | 1 40 | 14 42 | 1 18 | 6 11 | 2 16 | 2 46 | 0 44 | 17 49 | 0 1 | 20 20 | 3 4 | 19 26 | 19 21 | 8 28 | 2 10 | 3 33 |
| F 4 | 15 59 | 12 48 | 4 54 | 17 57 | 0 39 | 16 16 | 0 34 | 11 6 | 1 41 | 14 40 | 1 18 | 6 14 | 2 17 | 2 45 | 0 44 | 17 49 | 0 1 | 20 20 | 3 4 | 19 28 | 19 22 | 8 25 | 2 11 | 3 33 |
| S 5 | 16 16 | 17 30 | 5 1 | 17 32 | 0 22 | 16 39 | 0 31 | 10 51 | 1 42 | 14 38 | 1 18 | 6 17 | 2 17 | 2 44 | 0 44 | 17 49 | 0 1 | 20 20 | 3 4 | 19 31 | 19 23 | 8 22 | 2 12 | 3 34 |
| S 6 | 16 33 | 21 30 | 4 52 | 17 6 | 0 5 | 17 2 | 0 29 | 10 35 | 1 43 | 14 36 | 1 18 | 6 19 | 2 17 | 2 43 | 0 44 | 17 49 | 0 1 | 20 20 | 3 4 | 19 34 | 19 23 | 8 18 | 2 13 | 3 34 |
| M 7 | 16 50 | 24 30 | 4 28 | 16 39 | 0s13 | 17 24 | 0 27 | 10 20 | 1 43 | 14 33 | 1 18 | 6 22 | 2 17 | 2 42 | 0 44 | 17 49 | 0 1 | 20 20 | 3 4 | 19 37 | 19 24 | 8 15 | 2 14 | 3 34 |
| T 8 | 17 6 | 26 12 | 3 49 | 16 12 | 0 30 | 17 46 | 0 25 | 10 4 | 1 44 | 14 31 | 1 18 | 6 24 | 2 17 | 2 41 | 0 44 | 17 49 | 0 1 | 20 20 | 3 4 | 19 39 | 19 25 | 8 12 | 2 16 | 3 34 |
| W 9 | 17 23 | 26 23 | 2 57 | 15 45 | 0 47 | 18 7 | 0 22 | 9 48 | 1 45 | 14 29 | 1 18 | 6 27 | 2 17 | 2 40 | 0 44 | 17 49 | 0 0 | 20 20 | 3 3 | 19 41 | 19 26 | 8 9 | 2 17 | 3 34 |
| T 10 | 17 38 | 24 58 | 1 54 | 15 18 | 1 5 | 18 28 | 0 20 | 9 32 | 1 46 | 14 27 | 1 18 | 6 29 | 2 17 | 2 39 | 0 44 | 17 49 | 0 0 | 20 20 | 3 3 | 19 42 | 19 26 | 8 6 | 2 18 | 3 34 |
| F 11 | 17 54 | 22 2 | 0 43 | 14 53 | 1 21 | 18 48 | 0 18 | 9 16 | 1 47 | 14 25 | 1 18 | 6 32 | 2 17 | 2 38 | 0 44 | 17 49 | 0 0 | 20 20 | 3 3 | 19 42 | 19 27 | 8 3 | 2 19 | 3 34 |
| S 12 | 18 9 | 17 48 | 0s31 | 14 28 | 1 37 | 19 8 | 0 15 | 9 0 | 1 48 | 14 23 | 1 18 | 6 34 | 2 17 | 2 38 | 0 44 | 17 49 | 0 0 | 20 21 | 3 3 | 19 42 | 19 28 | 8 0 | 2 20 | 3 34 |
| S 13 | 18 24 | 12 32 | 1 44 | 14 4 | 1 53 | 19 27 | 0 13 | 8 44 | 1 48 | 14 20 | 1 18 | 6 37 | 2 17 | 2 37 | 0 44 | 17 49 | 0 0 | 20 21 | 3 3 | 19 42 | 19 29 | 7 57 | 2 21 | 3 34 |
| M14 | 18 39 | 6 36 | 2 50 | 13 43 | 2 8 | 19 46 | 0 11 | 8 28 | 1 49 | 14 18 | 1 17 | 6 39 | 2 18 | 2 36 | 0 44 | 17 49 | 0 0 | 20 21 | 3 3 | 19 42 | 19 29 | 7 54 | 2 22 | 3 34 |
| T 15 | 18 53 | 0 18 | 3 47 | 13 23 | 2 22 | 20 4 | 0 8 | 8 12 | 1 50 | 14 16 | 1 17 | 6 42 | 2 18 | 2 35 | 0 44 | 17 49 | 0 0 | 20 21 | 3 3 | 19 43 | 19 30 | 7 50 | 2 23 | 3 34 |
| W16 | 19 7 | 6s 2 | 4 30 | 13 5 | 2 35 | 20 22 | 0 6 | 7 56 | 1 51 | 14 14 | 1 17 | 6 44 | 2 18 | 2 34 | 0 44 | 17 49 | 0 0 | 20 21 | 3 3 | 19 44 | 19 31 | 7 47 | 2 24 | 3 35 |
| T 17 | 19 21 | 12 2 | 4 56 | 12 49 | 2 46 | 20 39 | 0 4 | 7 39 | 1 52 | 14 12 | 1 17 | 6 47 | 2 18 | 2 34 | 0 44 | 17 49 | 0 0 | 20 21 | 3 3 | 19 45 | 19 31 | 7 44 | 2 25 | 3 35 |
| F 18 | 19 34 | 17 22 | 5 3 | 12 36 | 2 57 | 20 55 | 0 1 | 7 23 | 1 52 | 14 10 | 1 17 | 6 49 | 2 18 | 2 33 | 0 45 | 17 49 | 0 0 | 20 21 | 3 3 | 19 47 | 19 32 | 7 41 | 2 26 | 3 35 |
| S 19 | 19 47 | 21 41 | 4 52 | 12 24 | 3 7 | 21 11 | 0n 1 | 7 7 | 1 53 | 14 8 | 1 17 | 6 51 | 2 18 | 2 32 | 0 45 | 17 49 | 0 0 | 20 21 | 3 2 | 19 50 | 19 33 | 7 38 | 2 27 | 3 35 |
| S 20 | 20 0 | 24 43 | 4 24 | 12 16 | 3 16 | 21 27 | 0 4 | 6 50 | 1 54 | 14 6 | 1 17 | 6 54 | 2 18 | 2 31 | 0 45 | 17 49 | 0 0 | 20 21 | 3 2 | 19 52 | 19 34 | 7 35 | 2 28 | 3 35 |
| M21 | 20 12 | 26 15 | 3 42 | 12 9 | 3 23 | 21 42 | 0 6 | 6 34 | 1 55 | 14 4 | 1 16 | 6 56 | 2 18 | 2 31 | 0 45 | 17 49 | 0 0 | 20 21 | 3 2 | 19 54 | 19 34 | 7 32 | 2 29 | 3 35 |
| T 22 | 20 24 | 26 17 | 2 49 | 12 5 | 3 30 | 21 56 | 0 9 | 6 18 | 1 56 | 14 2 | 1 16 | 6 58 | 2 19 | 2 30 | 0 45 | 17 49 | 0 0 | 20 21 | 3 2 | 19 55 | 19 35 | 7 29 | 2 30 | 3 35 |
| W23 | 20 36 | 24 53 | 1 49 | 12 4 | 3 35 | 22 9 | 0 11 | 6 1 | 1 56 | 14 0 | 1 16 | 7 1 | 2 19 | 2 29 | 0 45 | 17 49 | 0 0 | 20 21 | 3 2 | 19 56 | 19 36 | 7 26 | 2 31 | 3 35 |
| T 24 | 20 47 | 22 17 | 0 44 | 12 4 | 3 40 | 22 22 | 0 13 | 5 45 | 1 57 | 13 58 | 1 16 | 7 3 | 2 19 | 2 28 | 0 45 | 17 49 | 0 0 | 20 21 | 3 2 | 19 57 | 19 37 | 7 22 | 2 32 | 3 35 |
| F 25 | 20 58 | 18 43 | 0n21 | 12 7 | 3 43 | 22 35 | 0 16 | 5 28 | 1 58 | 13 56 | 1 16 | 7 5 | 2 19 | 2 28 | 0 45 | 17 49 | 0 0 | 20 21 | 3 2 | 19 57 | 19 37 | 7 19 | 2 33 | 3 35 |
| S 26 | 21 9 | 14 26 | 1 24 | 12 13 | 3 45 | 22 46 | 0 18 | 5 12 | 1 58 | 13 54 | 1 16 | 7 7 | 2 19 | 2 27 | 0 45 | 17 50 | 0 0 | 20 21 | 3 2 | 19 57 | 19 38 | 7 16 | 2 33 | 3 36 |
| S 27 | 21 19 | 9 39 | 2 23 | 12 20 | 3 47 | 22 57 | 0 20 | 4 55 | 1 59 | 13 53 | 1 15 | 7 10 | 2 19 | 2 26 | 0 45 | 17 50 | 0 0 | 20 21 | 3 2 | 19 56 | 19 39 | 7 13 | 2 34 | 3 36 |
| M28 | 21 29 | 4 33 | 3 16 | 12 30 | 3 47 | 23 8 | 0 23 | 4 39 | 2 0 | 13 51 | 1 15 | 7 12 | 2 19 | 2 26 | 0 45 | 17 50 | 0 0 | 20 21 | 3 2 | 19 56 | 19 39 | 7 10 | 2 35 | 3 36 |
| T 29 | 21 39 | 0n44 | 4 1 | 12 41 | 3 46 | 23 17 | 0 25 | 4 22 | 2 1 | 13 49 | 1 15 | 7 14 | 2 20 | 2 25 | 0 45 | 17 50 | 0 0 | 20 21 | 3 2 | 19 57 | 19 40 | 7 7 | 2 36 | 3 36 |
| W30 | 21 48 | 6 2 | 4 35 | 12 54 | 3 45 | 23 27 | 0 28 | 4 6 | 2 1 | 13 47 | 1 15 | 7 16 | 2 20 | 2 25 | 0 45 | 17 50 | 0 0 | 20 21 | 3 1 | 19 57 | 19 41 | 7 4 | 2 37 | 3 36 |
| T 31 | 21n56 | 11n12 | 4n58 | 13n 9 | 3s43 | 23n35 | 0n30 | 3s49 | 2s 2 | 13s46 | 1n15 | 7n18 | 2s20 | 2s24 | 0s45 | 17s50 | 0n 0 | 20n21 | 3s 1 | 19s58 | 19s42 | 7s 1 | 2n38 | 3n36 |

Julian Day Number = 2332596.5, Delta T = 27.02 sec
Ecliptic obliquity = 23°28'59, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'40, Lahiri = 19°18'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## JUNE 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 38 59 | 10♊37'27 | 29♈20 | 17♉ 1 | 20♊57 | 25♓49 | 10°R14 | 24♈29 | 25♓43 | 9°R44 | 5♋18 | 0°R53 | 2♒12 | 5♓19 | 28♓19 | F 1 |
| S 2 | 16 42 56 | 11°34'52 | 12♉ 8 | 17°54 | 22°11 | 26°32 | 10♏ 8 | 24°35 | 25°44 | 9♒43 | 5°19 | 0♒44 | 2° 9 | 5°26 | 28°21 | S 2 |
| S 3 | 16 46 53 | 12°32'15 | 25°15 | 18°50 | 23°24 | 27°15 | 10° 2 | 24°41 | 25°46 | 9°43 | 5°21 | 0°36 | 2° 6 | 5°32 | 28°22 | S 3 |
| M 4 | 16 50 49 | 13°29'38 | 8♊41 | 19°50 | 24°38 | 27°58 | 9°57 | 24°47 | 25°47 | 9°42 | 5°22 | 0°28 | 2° 2 | 5°39 | 28°24 | M 4 |
| T 5 | 16 54 46 | 14°27'01 | 22°24 | 20°54 | 25°52 | 28°41 | 9°52 | 24°53 | 25°48 | 9°41 | 5°23 | 0°22 | 1°59 | 5°46 | 28°25 | T 5 |
| W 6 | 16 58 42 | 15°24'22 | 6♋19 | 22° 0 | 27° 5 | 29°23 | 9°47 | 24°59 | 25°49 | 9°40 | 5°25 | 0°18 | 1°56 | 5°52 | 28°27 | W 6 |
| T 7 | 17 2 39 | 16°21'43 | 20°25 | 23°11 | 28°19 | 0♈ 6 | 9°42 | 25° 5 | 25°51 | 9°40 | 5°26 | 0°16 | 1°53 | 5°59 | 28°28 | T 7 |
| F 8 | 17 6 35 | 17°19'03 | 4♌36 | 24°24 | 29°32 | 0°49 | 9°37 | 25°10 | 25°52 | 9°39 | 5°28 | 0°D15 | 1°50 | 6° 6 | 28°29 | F 8 |
| S 9 | 17 10 32 | 18°16'21 | 18°51 | 25°40 | 0♋46 | 1°31 | 9°32 | 25°16 | 25°53 | 9°38 | 5°29 | 0°16 | 1°47 | 6°12 | 28°30 | S 9 |
| S 10 | 17 14 28 | 19°13'39 | 3♍ 5 | 27° 0 | 2° 0 | 2°14 | 9°28 | 25°22 | 25°54 | 9°37 | 5°31 | 0°18 | 1°43 | 6°19 | 28°32 | S 10 |
| M11 | 17 18 25 | 20°10'56 | 17°17 | 28°23 | 3°13 | 2°56 | 9°23 | 25°27 | 25°55 | 9°36 | 5°32 | 0°R18 | 1°40 | 6°26 | 28°33 | M11 |
| T 12 | 17 22 22 | 21° 8'12 | 1♎25 | 29°49 | 4°27 | 3°39 | 9°19 | 25°32 | 25°56 | 9°35 | 5°34 | 0°18 | 1°37 | 6°32 | 28°34 | T 12 |
| W13 | 17 26 18 | 22° 5'27 | 15°28 | 1♏18 | 5°40 | 4°21 | 9°15 | 25°38 | 25°57 | 9°34 | 5°35 | 0°16 | 1°34 | 6°39 | 28°35 | W13 |
| T 14 | 17 30 15 | 23° 2'41 | 29°23 | 2°50 | 6°54 | 5° 3 | 9°11 | 25°43 | 25°57 | 9°33 | 5°37 | 0°12 | 1°31 | 6°46 | 28°36 | T 14 |
| F 15 | 17 34 11 | 23°59'55 | 13♏ 9 | 4°26 | 8° 7 | 5°45 | 9° 8 | 25°48 | 25°58 | 9°32 | 5°38 | 0° 8 | 1°28 | 6°52 | 28°37 | F 15 |
| S 16 | 17 38 8 | 24°57'08 | 26°43 | 6° 4 | 9°21 | 6°27 | 9° 4 | 25°53 | 25°59 | 9°31 | 5°39 | 0° 2 | 1°24 | 6°59 | 28°38 | S 16 |
| S 17 | 17 42 4 | 25°54'21 | 10♐ 4 | 7°45 | 10°34 | 7° 9 | 9° 1 | 25°58 | 26° 0 | 9°30 | 5°41 | 29♑57 | 1°21 | 7° 6 | 28°38 | S 17 |
| M18 | 17 46 1 | 26°51'33 | 23° 9 | 9°29 | 11°47 | 7°51 | 8°58 | 26° 3 | 26° 0 | 9°29 | 5°42 | 29°52 | 1°18 | 7°12 | 28°39 | M18 |
| T 19 | 17 49 57 | 27°48'45 | 5♑59 | 11°16 | 13° 1 | 8°33 | 8°55 | 26° 8 | 26° 1 | 9°28 | 5°44 | 29°48 | 1°15 | 7°19 | 28°40 | T 19 |
| W20 | 17 53 54 | 28°45'56 | 18°33 | 13° 6 | 14°14 | 9°15 | 8°52 | 26°13 | 26° 1 | 9°27 | 5°45 | 29°46 | 1°12 | 7°26 | 28°40 | W20 |
| T 21 | 17 57 51 | 29°43'07 | 0♒53 | 14°59 | 15°28 | 9°56 | 8°49 | 26°18 | 26° 2 | 9°26 | 5°47 | 29°D46 | 1° 8 | 7°32 | 28°41 | T 21 |
| F 22 | 18 1 47 | 0♋40'18 | 12°59 | 16°54 | 16°41 | 10°38 | 8°46 | 26°23 | 26° 2 | 9°25 | 5°48 | 29°47 | 1° 5 | 7°39 | 28°42 | F 22 |
| S 23 | 18 5 44 | 1°37'29 | 24°57 | 18°51 | 17°55 | 11°19 | 8°44 | 26°27 | 26° 3 | 9°24 | 5°50 | 29°48 | 1° 2 | 7°46 | 28°42 | S 23 |
| S 24 | 18 9 40 | 2°34'40 | 6♓48 | 20°51 | 19° 8 | 12° 0 | 8°42 | 26°32 | 26° 3 | 9°22 | 5°51 | 29°50 | 0°59 | 7°52 | 28°42 | S 24 |
| M25 | 18 13 37 | 3°31'51 | 18°39 | 22°53 | 20°21 | 12°41 | 8°40 | 26°36 | 26° 3 | 9°21 | 5°53 | 29°51 | 0°56 | 7°59 | 28°43 | M25 |
| T 26 | 18 17 33 | 4°29'02 | 0♈32 | 24°57 | 21°35 | 13°23 | 8°38 | 26°41 | 26° 4 | 9°20 | 5°54 | 29°R52 | 0°53 | 8° 6 | 28°43 | T 26 |
| W27 | 18 21 30 | 5°26'13 | 12°34 | 27° 3 | 22°48 | 14° 4 | 8°37 | 26°45 | 26° 4 | 9°19 | 5°56 | 29°52 | 0°49 | 8°12 | 28°43 | W27 |
| T 28 | 18 25 26 | 6°23'25 | 24°48 | 29°10 | 24° 2 | 14°44 | 8°35 | 26°49 | 26° 4 | 9°17 | 5°57 | 29°51 | 0°46 | 8°19 | 28°44 | T 28 |
| F 29 | 18 29 23 | 7°20'37 | 7♉20 | 1♋18 | 25°15 | 15°25 | 8°34 | 26°53 | 26° 4 | 9°16 | 5°59 | 29°49 | 0°43 | 8°26 | 28°44 | F 29 |
| S 30 | 18 33 20 | 8♋17'49 | 20♉12 | 3♋28 | 26♋28 | 16♈ 6 | 8♏33 | 26♈57 | 26♓ 4 | 9♒15 | 6♋ 0 | 29♑46 | 0♒40 | 8♓32 | 28♓44 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 22n 5 | 16n 2 | 5n 7 | 13n26 | 3s40 | 23n43 | 0n32 | 3s33 | 2s 3 | 13s44 | 1n14 | 7n20 | 2s20 | 2s24 | 0s45 | 17s50 | 0n 0 | 20n21 | 3s 1 | 20s 0 | 19s42 | 6s58 | 2n38 | 3n36 |
| S 2 | 22 13 | 20 16 | 5 1 | 13 44 | 3 36 | 23 50 | 0 34 | 3 16 | 2 3 | 13 43 | 1 14 | 7 22 | 2 20 | 2 23 | 0 45 | 17 51 | 0 0 | 20 22 | 3 1 | 20 2 | 19 43 | 6 54 | 2 39 | 3 36 |
| S 3 | 22 20 | 23 38 | 4 39 | 14 4 | 3 32 | 23 56 | 0 37 | 3 0 | 2 4 | 13 41 | 1 14 | 7 24 | 2 20 | 2 23 | 0 45 | 17 51 | 0 0 | 20 22 | 3 1 | 20 4 | 19 44 | 6 51 | 2 40 | 3 37 |
| M 4 | 22 28 | 25 46 | 4 2 | 14 25 | 3 26 | 24 1 | 0 39 | 2 43 | 2 5 | 13 40 | 1 14 | 7 26 | 2 21 | 2 22 | 0 45 | 17 51 | 0 0 | 20 22 | 3 1 | 20 5 | 19 44 | 6 48 | 2 40 | 3 37 |
| T 5 | 22 34 | 26 26 | 3 10 | 14 47 | 3 20 | 24 6 | 0 41 | 2 27 | 2 5 | 13 38 | 1 13 | 7 28 | 2 21 | 2 22 | 0 45 | 17 51 | 0 0 | 20 22 | 3 1 | 20 6 | 19 45 | 6 45 | 2 41 | 3 37 |
| W 6 | 22 41 | 25 26 | 2 6 | 15 11 | 3 14 | 24 10 | 0 43 | 2 10 | 2 6 | 13 37 | 1 13 | 7 30 | 2 21 | 2 21 | 0 45 | 17 51 | 0 0 | 20 22 | 3 1 | 20 7 | 19 46 | 6 42 | 2 42 | 3 37 |
| T 7 | 22 47 | 22 48 | 0 53 | 15 35 | 3 7 | 24 14 | 0 46 | 1 54 | 2 7 | 13 35 | 1 13 | 7 32 | 2 21 | 2 21 | 0 45 | 17 52 | 0 0 | 20 22 | 3 1 | 20 8 | 19 47 | 6 39 | 2 42 | 3 37 |
| F 8 | 22 53 | 18 46 | 0s24 | 16 0 | 2 59 | 24 17 | 0 48 | 1 37 | 2 7 | 13 34 | 1 13 | 7 34 | 2 21 | 2 20 | 0 45 | 17 52 | 0 0 | 20 22 | 3 1 | 20 8 | 19 47 | 6 36 | 2 43 | 3 37 |
| S 9 | 22 58 | 13 38 | 1 39 | 16 27 | 2 51 | 24 19 | 0 50 | 1 21 | 2 8 | 13 33 | 1 13 | 7 36 | 2 21 | 2 20 | 0 45 | 17 52 | 0 0 | 20 22 | 3 1 | 20 8 | 19 48 | 6 33 | 2 44 | 3 37 |
| S 10 | 23 3 | 7 46 | 2 49 | 16 53 | 2 42 | 24 20 | 0 52 | 1 5 | 2 9 | 13 32 | 1 12 | 7 38 | 2 22 | 2 20 | 0 45 | 17 52 | 0 0 | 20 22 | 3 1 | 20 7 | 19 49 | 6 29 | 2 44 | 3 38 |
| M11 | 23 7 | 1 32 | 3 48 | 17 21 | 2 33 | 24 21 | 0 54 | 0 48 | 2 9 | 13 30 | 1 12 | 7 39 | 2 22 | 2 19 | 0 45 | 17 53 | 0 0 | 20 22 | 3 0 | 20 7 | 19 49 | 6 26 | 2 45 | 3 38 |
| T 12 | 23 11 | 4s44 | 4 32 | 17 49 | 2 23 | 24 20 | 0 56 | 0 32 | 2 10 | 13 29 | 1 12 | 7 41 | 2 22 | 2 19 | 0 45 | 17 53 | 0 0 | 20 22 | 3 0 | 20 7 | 19 50 | 6 23 | 2 45 | 3 38 |
| W13 | 23 15 | 10 43 | 5 0 | 18 17 | 2 13 | 24 20 | 0 58 | 0 16 | 2 10 | 13 28 | 1 12 | 7 43 | 2 22 | 2 19 | 0 45 | 17 53 | 0 0 | 20 22 | 3 0 | 20 8 | 19 51 | 6 20 | 2 46 | 3 38 |
| T 14 | 23 18 | 16 7 | 5 11 | 18 45 | 2 3 | 24 18 | 1 0 | 0n 1 | 2 11 | 13 27 | 1 11 | 7 45 | 2 22 | 2 18 | 0 45 | 17 53 | 0 0 | 20 22 | 3 0 | 20 9 | 19 52 | 6 17 | 2 46 | 3 38 |
| F 15 | 23 21 | 20 37 | 5 3 | 19 14 | 1 52 | 24 16 | 1 2 | 0 17 | 2 11 | 13 26 | 1 11 | 7 46 | 2 23 | 2 18 | 0 45 | 17 54 | 0 0 | 20 22 | 3 0 | 20 10 | 19 52 | 6 14 | 2 47 | 3 38 |
| S 16 | 23 23 | 23 58 | 4 38 | 19 42 | 1 41 | 24 13 | 1 4 | 0 33 | 2 12 | 13 25 | 1 11 | 7 48 | 2 23 | 2 18 | 0 45 | 17 54 | 0 0 | 20 22 | 3 0 | 20 11 | 19 53 | 6 11 | 2 47 | 3 38 |
| S 17 | 23 25 | 25 56 | 3 58 | 20 10 | 1 30 | 24 9 | 1 6 | 0 49 | 2 13 | 13 25 | 1 11 | 7 50 | 2 23 | 2 18 | 0 46 | 17 54 | 0 0 | 20 22 | 3 0 | 20 12 | 19 54 | 6 8 | 2 48 | 3 38 |
| M18 | 23 27 | 26 25 | 3 7 | 20 37 | 1 18 | 24 5 | 1 7 | 1 5 | 2 13 | 13 24 | 1 10 | 7 51 | 2 23 | 2 17 | 0 46 | 17 55 | 0 0 | 20 22 | 3 0 | 20 13 | 19 54 | 6 4 | 2 48 | 3 39 |
| T 19 | 23 28 | 25 27 | 2 6 | 21 4 | 1 7 | 23 59 | 1 9 | 1 21 | 2 14 | 13 23 | 1 10 | 7 53 | 2 23 | 2 17 | 0 46 | 17 55 | 0 0 | 20 22 | 3 0 | 20 14 | 19 55 | 6 1 | 2 49 | 3 39 |
| W20 | 23 29 | 23 12 | 1 1 | 21 30 | 0 55 | 23 54 | 1 11 | 1 37 | 2 14 | 13 22 | 1 10 | 7 54 | 2 24 | 2 17 | 0 46 | 17 55 | 0 0 | 20 22 | 3 0 | 20 14 | 19 56 | 5 58 | 2 49 | 3 39 |
| T 21 | 23 29 | 19 54 | 0n 6 | 21 55 | 0 43 | 23 47 | 1 12 | 1 53 | 2 15 | 13 22 | 1 10 | 7 56 | 2 24 | 2 17 | 0 46 | 17 55 | 0 0 | 20 22 | 3 0 | 20 14 | 19 56 | 5 55 | 2 49 | 3 39 |
| F 22 | 23 29 | 15 48 | 1 12 | 22 19 | 0 32 | 23 40 | 1 14 | 2 9 | 2 15 | 13 21 | 1 9 | 7 57 | 2 24 | 2 17 | 0 46 | 17 56 | 0s 0 | 20 22 | 3 0 | 20 14 | 19 57 | 5 52 | 2 50 | 3 39 |
| S 23 | 23 28 | 11 8 | 2 14 | 22 41 | 0 20 | 23 32 | 1 15 | 2 24 | 2 16 | 13 21 | 1 9 | 7 59 | 2 24 | 2 16 | 0 46 | 17 56 | 0 0 | 20 22 | 3 0 | 20 14 | 19 58 | 5 49 | 2 50 | 3 39 |
| S 24 | 23 27 | 6 6 | 3 10 | 23 2 | 0 8 | 23 23 | 1 17 | 2 40 | 2 16 | 13 20 | 1 9 | 8 0 | 2 25 | 2 16 | 0 46 | 17 56 | 0 0 | 20 22 | 3 0 | 20 13 | 19 59 | 5 46 | 2 50 | 3 39 |
| M25 | 23 26 | 0 52 | 3 57 | 23 20 | 0n 3 | 23 14 | 1 18 | 2 56 | 2 16 | 13 20 | 1 9 | 8 2 | 2 25 | 2 16 | 0 46 | 17 57 | 0 0 | 20 22 | 3 0 | 20 13 | 19 59 | 5 43 | 2 51 | 3 40 |
| T 26 | 23 24 | 4n25 | 4 35 | 23 37 | 0 14 | 23 4 | 1 20 | 3 11 | 2 17 | 13 20 | 1 8 | 8 3 | 2 25 | 2 16 | 0 46 | 17 57 | 0 0 | 20 22 | 2 59 | 20 13 | 20 0 | 5 39 | 2 51 | 3 40 |
| W27 | 23 22 | 9 35 | 5 1 | 23 51 | 0 25 | 22 53 | 1 21 | 3 27 | 2 17 | 13 19 | 1 8 | 8 4 | 2 25 | 2 16 | 0 46 | 17 57 | 0 0 | 20 22 | 2 59 | 20 13 | 20 1 | 5 36 | 2 51 | 3 40 |
| T 28 | 23 20 | 14 29 | 5 13 | 24 4 | 0 35 | 22 42 | 1 22 | 3 42 | 2 18 | 13 19 | 1 8 | 8 6 | 2 25 | 2 16 | 0 46 | 17 58 | 0 0 | 20 22 | 2 59 | 20 13 | 20 1 | 5 33 | 2 51 | 3 40 |
| F 29 | 23 17 | 18 54 | 5 12 | 24 13 | 0 44 | 22 30 | 1 24 | 3 57 | 2 18 | 13 19 | 1 8 | 8 7 | 2 26 | 2 16 | 0 46 | 17 58 | 0 0 | 20 22 | 2 59 | 20 14 | 20 2 | 5 30 | 2 52 | 3 40 |
| S 30 | 23n13 | 22n34 | 4n55 | 24n20 | 0n54 | 22n17 | 1n25 | 4n13 | 2s18 | 13s19 | 1n 7 | 8n 8 | 2s26 | 2s16 | 0s46 | 17s59 | 0s 0 | 20n22 | 2s59 | 20s14 | 20s 3 | 5s27 | 2n52 | 3n40 |

Julian Day Number = 2332627.5, Delta T = 26.97 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'44, Lahiri = 19°18'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## JULY 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 37 16 | 9♋15'01 | 3♊27 | 5♋37 | 27♋42 | 16♈46 | 8°R32 | 27♈ 1 | 26°R 4 | 9°R13 | 6♋ 2 | 29°R43 | 0♒37 | 8♓39 | 28°R44 | S 1 |
| M 2 | 18 41 13 | 10°12'14 | 17° 4 | 7°48 | 28°55 | 17°27 | 8♏31 | 27° 5 | 26♓ 4 | 9♒12 | 6° 3 | 29♅40 | 0°34 | 8°46 | 28♓44 | M 2 |
| T 3 | 18 45 9 | 11° 9'26 | 1♋ 3 | 9°58 | 0♌ 8 | 18° 7 | 8°31 | 27° 9 | 26° 4 | 9°11 | 6° 5 | 29°38 | 0°30 | 8°52 | 28°44 | T 3 |
| W 4 | 18 49 6 | 12° 6'39 | 15°20 | 12° 7 | 1°22 | 18°47 | 8°30 | 27°13 | 26° 4 | 9° 9 | 6° 6 | 29°37 | 0°27 | 8°59 | 28°44 | W 4 |
| T 5 | 18 53 2 | 13° 3'53 | 29°50 | 14°17 | 2°35 | 19°27 | 8°D30 | 27°16 | 26° 4 | 9° 8 | 6° 8 | 29°D36 | 0°24 | 9° 6 | 28°44 | T 5 |
| F 6 | 18 56 59 | 14° 1'06 | 14♌27 | 16°25 | 3°48 | 20° 7 | 8°30 | 27°20 | 26° 4 | 9° 6 | 6° 9 | 29°37 | 0°21 | 9°12 | 28°43 | F 6 |
| S 7 | 19 0 56 | 14°58'19 | 29° 5 | 18°33 | 5° 1 | 20°46 | 8°30 | 27°23 | 26° 3 | 9° 5 | 6°11 | 29°38 | 0°18 | 9°19 | 28°43 | S 7 |
| S 8 | 19 4 52 | 15°55'32 | 13♍40 | 20°39 | 6°15 | 21°26 | 8°31 | 27°26 | 26° 3 | 9° 4 | 6°12 | 29°39 | 0°14 | 9°26 | 28°43 | S 8 |
| M 9 | 19 8 49 | 16°52'45 | 28° 5 | 22°45 | 7°28 | 22° 5 | 8°31 | 27°30 | 26° 3 | 9° 2 | 6°14 | 29°39 | 0°11 | 9°32 | 28°42 | M 9 |
| T 10 | 19 12 45 | 17°49'59 | 12♎17 | 24°49 | 8°41 | 22°45 | 8°32 | 27°33 | 26° 2 | 9° 1 | 6°15 | 29°R40 | 0° 8 | 9°39 | 28°42 | T 10 |
| W11 | 19 16 42 | 18°47'12 | 26°16 | 26°51 | 9°54 | 23°24 | 8°33 | 27°36 | 26° 2 | 8°59 | 6°17 | 29°40 | 0° 5 | 9°46 | 28°42 | W11 |
| T 12 | 19 20 38 | 19°44'25 | 9♏59 | 28°52 | 11° 8 | 24° 3 | 8°34 | 27°39 | 26° 1 | 8°58 | 6°18 | 29°39 | 0° 2 | 9°52 | 28°41 | T 12 |
| F 13 | 19 24 35 | 20°41'39 | 23°26 | 0♌51 | 12°21 | 24°41 | 8°35 | 27°42 | 26° 1 | 8°56 | 6°20 | 29°39 | 29♅59 | 9°59 | 28°40 | F 13 |
| S 14 | 19 28 31 | 21°38'53 | 6♐38 | 2°48 | 13°34 | 25°20 | 8°37 | 27°45 | 26° 0 | 8°55 | 6°21 | 29°38 | 29°55 | 10° 6 | 28°40 | S 14 |
| S 15 | 19 32 28 | 22°36'07 | 19°36 | 4°44 | 14°47 | 25°58 | 8°38 | 27°47 | 25°59 | 8°53 | 6°23 | 29°37 | 29°52 | 10°12 | 28°39 | S 15 |
| M16 | 19 36 25 | 23°33'21 | 2♅19 | 6°38 | 16° 0 | 26°37 | 8°40 | 27°50 | 25°59 | 8°51 | 6°24 | 29°36 | 29°49 | 10°19 | 28°38 | M16 |
| T 17 | 19 40 21 | 24°30'36 | 14°50 | 8°30 | 17°13 | 27°15 | 8°42 | 27°52 | 25°58 | 8°50 | 6°26 | 29°35 | 29°46 | 10°26 | 28°37 | T 17 |
| W18 | 19 44 18 | 25°27'52 | 27° 9 | 10°20 | 18°26 | 27°53 | 8°44 | 27°55 | 25°57 | 8°48 | 6°27 | 29°D35 | 29°43 | 10°33 | 28°37 | W18 |
| T 19 | 19 48 14 | 26°25'08 | 9♒18 | 12° 9 | 19°40 | 28°31 | 8°47 | 27°57 | 25°56 | 8°47 | 6°29 | 29°35 | 29°40 | 10°39 | 28°36 | T 19 |
| F 20 | 19 52 11 | 27°22'25 | 21°18 | 13°56 | 20°53 | 29° 8 | 8°49 | 27°59 | 25°55 | 8°45 | 6°30 | 29°36 | 29°36 | 10°46 | 28°35 | F 20 |
| S 21 | 19 56 7 | 28°19'42 | 3♓12 | 15°41 | 22° 6 | 29°46 | 8°52 | 28° 1 | 25°54 | 8°44 | 6°31 | 29°36 | 29°33 | 10°53 | 28°34 | S 21 |
| S 22 | 20 0 4 | 29°17'00 | 15° 2 | 17°25 | 23°19 | 0♉23 | 8°55 | 28° 3 | 25°53 | 8°42 | 6°33 | 29°R36 | 29°30 | 10°59 | 28°33 | S 22 |
| M23 | 20 4 0 | 0♌14'19 | 26°52 | 19° 6 | 24°32 | 1° 0 | 8°58 | 28° 5 | 25°52 | 8°40 | 6°34 | 29°36 | 29°27 | 11° 6 | 28°32 | M23 |
| T 24 | 20 7 57 | 1°11'40 | 8♈46 | 20°46 | 25°45 | 1°37 | 9° 1 | 28° 7 | 25°51 | 8°39 | 6°36 | 29°36 | 29°24 | 11°13 | 28°30 | T 24 |
| W25 | 20 11 54 | 2° 9'01 | 20°47 | 22°24 | 26°58 | 2°13 | 9° 4 | 28° 9 | 25°50 | 8°37 | 6°37 | 29°36 | 29°20 | 11°19 | 28°29 | W25 |
| T 26 | 20 15 50 | 3° 6'23 | 3♉ 0 | 24° 1 | 28°11 | 2°50 | 9° 8 | 28°10 | 25°49 | 8°35 | 6°38 | 29°D35 | 29°17 | 11°26 | 28°28 | T 26 |
| F 27 | 20 19 47 | 4° 3'47 | 15°29 | 25°36 | 29°24 | 3°26 | 9°12 | 28°12 | 25°48 | 8°34 | 6°40 | 29°36 | 29°14 | 11°33 | 28°27 | F 27 |
| S 28 | 20 23 43 | 5° 1'11 | 28°19 | 27° 9 | 0♍37 | 4° 2 | 9°15 | 28°13 | 25°47 | 8°32 | 6°41 | 29°36 | 29°11 | 11°39 | 28°25 | S 28 |
| S 29 | 20 27 40 | 5°58'37 | 11♊32 | 28°40 | 1°49 | 4°38 | 9°19 | 28°15 | 25°45 | 8°31 | 6°42 | 29°36 | 29° 8 | 11°46 | 28°24 | S 29 |
| M30 | 20 31 36 | 6°56'04 | 25°11 | 0♍10 | 3° 2 | 5°13 | 9°24 | 28°16 | 25°44 | 8°29 | 6°44 | 29°37 | 29° 5 | 11°53 | 28°22 | M30 |
| T 31 | 20 35 33 | 7♌53'33 | 9♋15 | 1♍37 | 4♍15 | 5♉49 | 9♏28 | 28♈17 | 25♓43 | 8♒27 | 6♋45 | 29♅38 | 29♅ 1 | 11♓59 | 28♓21 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n10 | 25n10 | 4n22 | 24n24 | 1n 2 | 22n 4 | 1n26 | 4n28 | 2s19 | 13s19 | 1n 7 | 8n 9 | 2s26 | 2s16 | 0s46 | 17s59 | 0s 0 | 20n22 | 2s59 | 20s15 | 20s 3 | 5s24 | 2n52 | 3n40 |
| M 2 | 23 5 | 26 24 | 3 34 | 24 25 | 1 10 | 21 50 | 1 27 | 4 43 | 2 19 | 13 19 | 1 7 | 8 11 | 2 26 | 2 16 | 0 46 | 17 59 | 0 0 | 20 22 | 2 59 | 20 15 | 20 4 | 5 21 | 2 52 | 3 41 |
| T 3 | 23 1 | 26 0 | 2 31 | 24 24 | 1 17 | 21 35 | 1 28 | 4 58 | 2 20 | 13 19 | 1 6 | 8 12 | 2 27 | 2 16 | 0 46 | 18 0 | 0 0 | 20 22 | 2 59 | 20 16 | 20 5 | 5 17 | 2 52 | 3 41 |
| W 4 | 22 56 | 23 54 | 1 18 | 24 19 | 1 24 | 21 20 | 1 29 | 5 13 | 2 20 | 13 19 | 1 6 | 8 13 | 2 27 | 2 16 | 0 46 | 18 0 | 0 0 | 20 22 | 2 59 | 20 16 | 20 5 | 5 14 | 2 52 | 3 41 |
| T 5 | 22 50 | 20 12 | 0s 1 | 24 12 | 1 30 | 21 4 | 1 30 | 5 28 | 2 20 | 13 19 | 1 6 | 8 14 | 2 27 | 2 16 | 0 46 | 18 0 | 0 0 | 20 22 | 2 59 | 20 16 | 20 6 | 5 11 | 2 52 | 3 41 |
| F 6 | 22 45 | 15 14 | 1 21 | 24 2 | 1 35 | 20 48 | 1 30 | 5 42 | 2 21 | 13 20 | 1 6 | 8 15 | 2 27 | 2 17 | 0 46 | 18 1 | 0 0 | 20 22 | 2 59 | 20 16 | 20 7 | 5 8 | 2 52 | 3 41 |
| S 7 | 22 38 | 9 22 | 2 36 | 23 50 | 1 39 | 20 31 | 1 31 | 5 57 | 2 21 | 13 20 | 1 5 | 8 16 | 2 28 | 2 17 | 0 46 | 18 1 | 0 0 | 20 22 | 2 59 | 20 16 | 20 7 | 5 5 | 2 52 | 3 41 |
| S 8 | 22 32 | 3 3 | 3 40 | 23 35 | 1 43 | 20 14 | 1 32 | 6 11 | 2 21 | 13 20 | 1 5 | 8 17 | 2 28 | 2 17 | 0 46 | 18 2 | 0 0 | 20 22 | 2 59 | 20 16 | 20 8 | 5 2 | 2 52 | 3 41 |
| M 9 | 22 25 | 3s22 | 4 30 | 23 18 | 1 45 | 19 55 | 1 32 | 6 26 | 2 21 | 13 21 | 1 5 | 8 18 | 2 28 | 2 17 | 0 46 | 18 2 | 0 0 | 20 22 | 2 59 | 20 16 | 20 9 | 4 59 | 2 52 | 3 41 |
| T 10 | 22 18 | 9 30 | 5 2 | 22 58 | 1 48 | 19 37 | 1 33 | 6 40 | 2 22 | 13 21 | 1 5 | 8 19 | 2 28 | 2 17 | 0 46 | 18 2 | 0 0 | 20 21 | 2 59 | 20 15 | 20 10 | 4 56 | 2 52 | 3 42 |
| W11 | 22 10 | 15 3 | 5 16 | 22 36 | 1 49 | 19 18 | 1 33 | 6 54 | 2 22 | 13 22 | 1 4 | 8 20 | 2 29 | 2 17 | 0 46 | 18 3 | 0 0 | 20 21 | 2 59 | 20 15 | 20 10 | 4 52 | 2 52 | 3 42 |
| T 12 | 22 2 | 19 45 | 5 12 | 22 13 | 1 50 | 18 58 | 1 34 | 7 8 | 2 22 | 13 22 | 1 4 | 8 20 | 2 29 | 2 18 | 0 46 | 18 3 | 0 0 | 20 21 | 2 59 | 20 16 | 20 11 | 4 49 | 2 52 | 3 42 |
| F 13 | 21 53 | 23 20 | 4 50 | 21 47 | 1 50 | 18 38 | 1 34 | 7 22 | 2 22 | 13 23 | 1 4 | 8 21 | 2 29 | 2 18 | 0 46 | 18 4 | 0 0 | 20 21 | 2 59 | 20 16 | 20 12 | 4 46 | 2 52 | 3 42 |
| S 14 | 21 44 | 25 37 | 4 13 | 21 20 | 1 49 | 18 17 | 1 34 | 7 36 | 2 23 | 13 24 | 1 4 | 8 22 | 2 29 | 2 18 | 0 46 | 18 4 | 0 0 | 20 21 | 2 59 | 20 16 | 20 12 | 4 43 | 2 52 | 3 42 |
| S 15 | 21 35 | 26 28 | 3 24 | 20 51 | 1 47 | 17 56 | 1 34 | 7 50 | 2 23 | 13 25 | 1 3 | 8 23 | 2 30 | 2 19 | 0 47 | 18 4 | 0 0 | 20 21 | 2 59 | 20 16 | 20 13 | 4 40 | 2 52 | 3 42 |
| M16 | 21 25 | 25 53 | 2 26 | 20 21 | 1 46 | 17 34 | 1 34 | 8 4 | 2 23 | 13 25 | 1 3 | 8 23 | 2 30 | 2 19 | 0 47 | 18 5 | 0 0 | 20 21 | 2 59 | 20 16 | 20 14 | 4 37 | 2 51 | 3 42 |
| T 17 | 21 15 | 24 0 | 1 21 | 19 50 | 1 43 | 17 12 | 1 34 | 8 17 | 2 23 | 13 26 | 1 3 | 8 24 | 2 30 | 2 19 | 0 47 | 18 5 | 0 0 | 20 21 | 2 59 | 20 16 | 20 14 | 4 34 | 2 51 | 3 43 |
| W18 | 21 5 | 20 59 | 0 14 | 19 17 | 1 40 | 16 49 | 1 34 | 8 30 | 2 23 | 13 27 | 1 2 | 8 25 | 2 30 | 2 20 | 0 47 | 18 6 | 0 0 | 20 21 | 2 58 | 20 16 | 20 15 | 4 30 | 2 51 | 3 43 |
| T 19 | 20 54 | 17 6 | 0n54 | 18 43 | 1 36 | 16 26 | 1 34 | 8 44 | 2 23 | 13 28 | 1 2 | 8 25 | 2 31 | 2 20 | 0 47 | 18 6 | 0 0 | 20 21 | 2 58 | 20 16 | 20 16 | 4 27 | 2 51 | 3 43 |
| F 20 | 20 43 | 12 34 | 1 58 | 18 9 | 1 32 | 16 3 | 1 34 | 8 57 | 2 24 | 13 29 | 1 2 | 8 26 | 2 31 | 2 20 | 0 47 | 18 7 | 0 0 | 20 21 | 2 58 | 20 16 | 20 16 | 4 24 | 2 50 | 3 43 |
| S 21 | 20 32 | 7 37 | 2 56 | 17 33 | 1 28 | 15 39 | 1 34 | 9 10 | 2 24 | 13 30 | 1 2 | 8 26 | 2 31 | 2 21 | 0 47 | 18 7 | 0 0 | 20 21 | 2 58 | 20 16 | 20 17 | 4 21 | 2 50 | 3 43 |
| S 22 | 20 20 | 2 26 | 3 46 | 16 57 | 1 23 | 15 15 | 1 33 | 9 23 | 2 24 | 13 32 | 1 1 | 8 27 | 2 31 | 2 21 | 0 47 | 18 7 | 0 0 | 20 21 | 2 58 | 20 16 | 20 18 | 4 18 | 2 50 | 3 43 |
| M23 | 20 8 | 2n50 | 4 27 | 16 20 | 1 17 | 14 50 | 1 33 | 9 36 | 2 24 | 13 33 | 1 1 | 8 27 | 2 32 | 2 22 | 0 47 | 18 8 | 0 0 | 20 21 | 2 58 | 20 16 | 20 18 | 4 15 | 2 50 | 3 43 |
| T 24 | 19 56 | 8 1 | 4 57 | 15 43 | 1 11 | 14 25 | 1 33 | 9 48 | 2 24 | 13 34 | 1 1 | 8 27 | 2 32 | 2 22 | 0 47 | 18 8 | 0 0 | 20 21 | 2 58 | 20 16 | 20 19 | 4 12 | 2 49 | 3 43 |
| W25 | 19 43 | 12 58 | 5 14 | 15 5 | 1 5 | 13 59 | 1 32 | 10 1 | 2 24 | 13 35 | 1 1 | 8 28 | 2 32 | 2 22 | 0 47 | 18 9 | 0 0 | 20 21 | 2 58 | 20 16 | 20 20 | 4 9 | 2 49 | 3 43 |
| T 26 | 19 30 | 17 29 | 5 17 | 14 27 | 0 58 | 13 33 | 1 31 | 10 13 | 2 24 | 13 37 | 1 0 | 8 28 | 2 33 | 2 23 | 0 47 | 18 9 | 0 0 | 20 21 | 2 58 | 20 16 | 20 20 | 4 5 | 2 48 | 3 44 |
| F 27 | 19 17 | 21 22 | 5 5 | 13 49 | 0 51 | 13 7 | 1 31 | 10 26 | 2 24 | 13 38 | 1 0 | 8 28 | 2 33 | 2 23 | 0 47 | 18 10 | 0 0 | 20 21 | 2 58 | 20 16 | 20 21 | 4 2 | 2 48 | 3 44 |
| S 28 | 19 3 | 24 20 | 4 38 | 13 10 | 0 44 | 12 41 | 1 30 | 10 38 | 2 24 | 13 40 | 1 0 | 8 29 | 2 33 | 2 24 | 0 47 | 18 10 | 0 0 | 20 21 | 2 58 | 20 16 | 20 22 | 3 59 | 2 48 | 3 44 |
| S 29 | 18 49 | 26 6 | 3 56 | 12 31 | 0 36 | 12 14 | 1 29 | 10 50 | 2 24 | 13 41 | 1 0 | 8 29 | 2 33 | 2 24 | 0 47 | 18 10 | 0 0 | 20 21 | 2 58 | 20 16 | 20 22 | 3 56 | 2 47 | 3 44 |
| M30 | 18 34 | 26 23 | 3 0 | 11 52 | 0 28 | 11 47 | 1 28 | 11 2 | 2 24 | 13 43 | 0 59 | 8 29 | 2 34 | 2 25 | 0 47 | 18 11 | 0 0 | 20 21 | 2 58 | 20 16 | 20 23 | 3 53 | 2 47 | 3 44 |
| T 31 | 18n20 | 25n 0 | 1n51 | 11n13 | 0n20 | 11n19 | 1n27 | 11n13 | 2s24 | 13s44 | 0n59 | 8n29 | 2s34 | 2s26 | 0s47 | 18s11 | 0s 0 | 20n21 | 2s58 | 20s16 | 20s23 | 3s50 | 2n46 | 3n44 |

Julian Day Number = 2332657.5, Delta T = 26.92 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'48, Lahiri = 19°18'49Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## AUGUST 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 39 29 | 8♌51'02 | 23♋43 | 3♍ 4 | 5♍28 | 6♉24 | 9♏33 | 28♈18 | 25°R41 | 8°R26 | 6♋46 | 29°R38 | 28♑58 | 12♓ 6 | 28°R19 | W 1 |
| T 2 | 20 43 26 | 9°48'33 | 8♌29 | 4°28 | 6°41 | 6°59 | 9°37 | 28°19 | 25♓40 | 8♒24 | 6°48 | 29♑38 | 28°55 | 12°13 | 28♓18 | T 2 |
| F 3 | 20 47 23 | 10°46'04 | 23°27 | 5°50 | 7°54 | 7°33 | 9°42 | 28°20 | 25°39 | 8°22 | 6°49 | 29°37 | 28°52 | 12°19 | 28°16 | F 3 |
| S 4 | 20 51 19 | 11°43'37 | 8♍29 | 7°11 | 9° 7 | 8° 8 | 9°47 | 28°20 | 25°37 | 8°21 | 6°50 | 29°36 | 28°49 | 12°26 | 28°15 | S 4 |
| S 5 | 20 55 16 | 12°41'10 | 23°26 | 8°30 | 10°19 | 8°42 | 9°52 | 28°21 | 25°35 | 8°19 | 6°52 | 29°35 | 28°46 | 12°33 | 28°13 | S 5 |
| M 6 | 20 59 12 | 13°38'45 | 8♎10 | 9°46 | 11°32 | 9°15 | 9°58 | 28°21 | 25°34 | 8°18 | 6°53 | 29°33 | 28°42 | 12°39 | 28°11 | M 6 |
| T 7 | 21 3 9 | 14°36'20 | 22°35 | 11° 1 | 12°45 | 9°49 | 10° 3 | 28°22 | 25°32 | 8°16 | 6°54 | 29°32 | 28°39 | 12°46 | 28° 9 | T 7 |
| W 8 | 21 7 5 | 15°33'56 | 6♏39 | 12°14 | 13°58 | 10°22 | 10° 9 | 28°22 | 25°31 | 8°14 | 6°55 | 29°31 | 28°36 | 12°53 | 28° 7 | W 8 |
| T 9 | 21 11 2 | 16°31'34 | 20°20 | 13°24 | 15°10 | 10°55 | 10°14 | 28°22 | 25°29 | 8°13 | 6°57 | 29°D31 | 28°33 | 13° 0 | 28° 6 | T 9 |
| F 10 | 21 14 58 | 17°29'12 | 3♐39 | 14°32 | 16°23 | 11°28 | 10°20 | 28°R22 | 25°27 | 8°11 | 6°58 | 29°31 | 28°30 | 13° 6 | 28° 4 | F 10 |
| S 11 | 21 18 55 | 18°26'51 | 16°37 | 15°38 | 17°36 | 12° 0 | 10°26 | 28°22 | 25°25 | 8°10 | 6°59 | 29°33 | 28°26 | 13°13 | 28° 2 | S 11 |
| S 12 | 21 22 52 | 19°24'31 | 29°18 | 16°42 | 18°48 | 12°32 | 10°33 | 28°22 | 25°24 | 8° 8 | 7° 0 | 29°34 | 28°23 | 13°20 | 28° 0 | S 12 |
| M13 | 21 26 48 | 20°22'13 | 11♑45 | 17°43 | 20° 1 | 13° 4 | 10°39 | 28°22 | 25°22 | 8° 6 | 7° 1 | 29°35 | 28°20 | 13°26 | 27°58 | M13 |
| T 14 | 21 30 45 | 21°19'55 | 23°59 | 18°41 | 21°13 | 13°36 | 10°45 | 28°21 | 25°20 | 8° 5 | 7° 2 | 29°R36 | 28°17 | 13°33 | 27°55 | T 14 |
| W15 | 21 34 41 | 22°17'39 | 6♒ 5 | 19°37 | 22°26 | 14° 7 | 10°52 | 28°21 | 25°18 | 8° 3 | 7° 4 | 29°36 | 28°14 | 13°40 | 27°53 | W15 |
| T 16 | 21 38 38 | 23°15'24 | 18° 4 | 20°30 | 23°38 | 14°38 | 10°59 | 28°20 | 25°16 | 8° 2 | 7° 5 | 29°35 | 28°11 | 13°46 | 27°51 | T 16 |
| F 17 | 21 42 34 | 24°13'11 | 29°58 | 21°19 | 24°51 | 15° 8 | 11° 6 | 28°20 | 25°14 | 8° 0 | 7° 6 | 29°33 | 28° 7 | 13°53 | 27°49 | F 17 |
| S 18 | 21 46 31 | 25°10'59 | 11♓49 | 22° 6 | 26° 3 | 15°39 | 11°13 | 28°19 | 25°12 | 7°59 | 7° 7 | 29°29 | 28° 4 | 14° 0 | 27°47 | S 18 |
| S 19 | 21 50 27 | 26° 8'48 | 23°39 | 22°48 | 27°16 | 16° 9 | 11°20 | 28°18 | 25°10 | 7°57 | 7° 8 | 29°25 | 28° 1 | 14° 6 | 27°45 | S 19 |
| M20 | 21 54 24 | 27° 6'39 | 5♈30 | 23°27 | 28°28 | 16°38 | 11°27 | 28°17 | 25° 8 | 7°55 | 7° 9 | 29°20 | 27°58 | 14°13 | 27°42 | M20 |
| T 21 | 21 58 21 | 28° 4'32 | 17°25 | 24° 3 | 29°40 | 17° 7 | 11°35 | 28°16 | 25° 6 | 7°54 | 7°10 | 29°15 | 27°55 | 14°20 | 27°40 | T 21 |
| W22 | 22 2 17 | 29° 2'26 | 29°28 | 24°34 | 0♎53 | 17°36 | 11°42 | 28°15 | 25° 4 | 7°52 | 7°11 | 29°12 | 27°51 | 14°26 | 27°38 | W22 |
| T 23 | 22 6 14 | 0♍ 0'23 | 11♉40 | 25° 0 | 2° 5 | 18° 5 | 11°50 | 28°13 | 25° 2 | 7°51 | 7°12 | 29° 9 | 27°48 | 14°33 | 27°35 | T 23 |
| F 24 | 22 10 10 | 0°58'21 | 24° 7 | 25°22 | 3°17 | 18°33 | 11°58 | 28°12 | 25° 0 | 7°49 | 7°13 | 29° 7 | 27°45 | 14°40 | 27°33 | F 24 |
| S 25 | 22 14 7 | 1°56'21 | 6♊52 | 25°40 | 4°29 | 19° 0 | 12° 6 | 28°10 | 24°58 | 7°48 | 7°14 | 29°D 7 | 27°42 | 14°46 | 27°30 | S 25 |
| S 26 | 22 18 3 | 2°54'23 | 19°59 | 25°51 | 5°42 | 19°28 | 12°14 | 28° 9 | 24°56 | 7°47 | 7°15 | 29° 8 | 27°39 | 14°53 | 27°28 | S 26 |
| M27 | 22 22 0 | 3°52'27 | 3♋30 | 25°58 | 6°54 | 19°54 | 12°22 | 28° 7 | 24°53 | 7°45 | 7°16 | 29°10 | 27°36 | 15° 0 | 27°25 | M27 |
| T 28 | 22 25 56 | 4°50'34 | 17°29 | 25°R58 | 8° 6 | 20°21 | 12°30 | 28° 5 | 24°51 | 7°44 | 7°17 | 29°11 | 27°32 | 15° 7 | 27°23 | T 28 |
| W29 | 22 29 53 | 5°48'41 | 1♌54 | 25°53 | 9°18 | 20°47 | 12°39 | 28° 3 | 24°49 | 7°42 | 7°18 | 29°R11 | 27°29 | 15°13 | 27°20 | W29 |
| T 30 | 22 33 50 | 6°46'51 | 16°43 | 25°42 | 10°30 | 21°12 | 12°47 | 28° 1 | 24°47 | 7°41 | 7°18 | 29°10 | 27°26 | 15°20 | 27°18 | T 30 |
| F 31 | 22 37 46 | 7♍45'03 | 1♍50 | 25♍24 | 11♎42 | 21♉38 | 12♏56 | 27♈59 | 24♓45 | 7♒40 | 7♋19 | 29♑ 7 | 27♑23 | 15♓27 | 27♓15 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18n 5 | 21n56 | 0n33 | 10n34 | 0n11 | 10n51 | 1n26 | 11n25 | 2s24 | 13s46 | 0n59 | 8n29 | 2s34 | 2s26 | 0s47 | 18s12 | 0s 0 | 20n21 | 2s58 | 20s16 | 20s24 | 3s47 | 2n46 | 3n44 |
| T 2 | 17 49 | 17 23 | 0s49 | 9 56 | 0 2 | 10 23 | 1 25 | 11 36 | 2 24 | 13 48 | 0 59 | 8 29 | 2 34 | 2 27 | 0 47 | 18 12 | 0 0 | 20 21 | 2 58 | 20 16 | 20 25 | 3 44 | 2 45 | 3 44 |
| F 3 | 17 34 | 11 42 | 2 8 | 9 17 | 0s 7 | 9 55 | 1 24 | 11 48 | 2 24 | 13 49 | 0 58 | 8 29 | 2 35 | 2 27 | 0 47 | 18 13 | 0 0 | 20 21 | 2 58 | 20 16 | 20 25 | 3 40 | 2 44 | 3 44 |
| S 4 | 17 18 | 5 20 | 3 19 | 8 39 | 0 16 | 9 26 | 1 22 | 11 59 | 2 23 | 13 51 | 0 58 | 8 29 | 2 35 | 2 28 | 0 47 | 18 13 | 0 1 | 20 21 | 2 58 | 20 16 | 20 26 | 3 37 | 2 44 | 3 44 |
| S 5 | 17 2 | 1s18 | 4 16 | 8 0 | 0 25 | 8 58 | 1 21 | 12 10 | 2 23 | 13 53 | 0 58 | 8 29 | 2 35 | 2 29 | 0 47 | 18 14 | 0 1 | 20 20 | 2 58 | 20 17 | 20 27 | 3 34 | 2 43 | 3 45 |
| M 6 | 16 46 | 7 45 | 4 55 | 7 23 | 0 35 | 8 28 | 1 19 | 12 21 | 2 23 | 13 55 | 0 58 | 8 29 | 2 36 | 2 29 | 0 47 | 18 14 | 0 1 | 20 20 | 2 58 | 20 17 | 20 27 | 3 31 | 2 43 | 3 45 |
| T 7 | 16 29 | 13 39 | 5 14 | 6 45 | 0 45 | 7 59 | 1 18 | 12 31 | 2 23 | 13 57 | 0 57 | 8 29 | 2 36 | 2 30 | 0 47 | 18 14 | 0 1 | 20 20 | 2 58 | 20 17 | 20 28 | 3 28 | 2 42 | 3 45 |
| W 8 | 16 12 | 18 41 | 5 14 | 6 8 | 0 55 | 7 30 | 1 16 | 12 42 | 2 23 | 13 59 | 0 57 | 8 29 | 2 36 | 2 31 | 0 47 | 18 15 | 0 1 | 20 20 | 2 58 | 20 17 | 20 29 | 3 25 | 2 41 | 3 45 |
| T 9 | 15 55 | 22 36 | 4 56 | 5 32 | 1 5 | 7 0 | 1 15 | 12 52 | 2 23 | 14 1 | 0 57 | 8 29 | 2 36 | 2 31 | 0 47 | 18 15 | 0 1 | 20 20 | 2 58 | 20 17 | 20 29 | 3 22 | 2 41 | 3 45 |
| F 10 | 15 37 | 25 12 | 4 22 | 4 57 | 1 15 | 6 30 | 1 13 | 13 3 | 2 22 | 14 3 | 0 57 | 8 29 | 2 37 | 2 32 | 0 47 | 18 16 | 0 1 | 20 20 | 2 58 | 20 17 | 20 30 | 3 18 | 2 40 | 3 45 |
| S 11 | 15 20 | 26 23 | 3 36 | 4 22 | 1 25 | 6 0 | 1 11 | 13 13 | 2 22 | 14 5 | 0 56 | 8 28 | 2 37 | 2 33 | 0 47 | 18 16 | 0 1 | 20 20 | 2 58 | 20 17 | 20 31 | 3 15 | 2 39 | 3 45 |
| S 12 | 15 2 | 26 8 | 2 40 | 3 47 | 1 36 | 5 30 | 1 9 | 13 23 | 2 22 | 14 7 | 0 56 | 8 28 | 2 37 | 2 33 | 0 47 | 18 17 | 0 1 | 20 20 | 2 58 | 20 17 | 20 31 | 3 12 | 2 38 | 3 45 |
| M13 | 14 43 | 24 34 | 1 37 | 3 14 | 1 46 | 5 0 | 1 7 | 13 32 | 2 22 | 14 9 | 0 56 | 8 28 | 2 37 | 2 34 | 0 47 | 18 17 | 0 1 | 20 20 | 2 58 | 20 16 | 20 32 | 3 9 | 2 38 | 3 45 |
| T 14 | 14 25 | 21 51 | 0 31 | 2 42 | 1 56 | 4 29 | 1 5 | 13 42 | 2 21 | 14 12 | 0 56 | 8 27 | 2 38 | 2 35 | 0 47 | 18 17 | 0 1 | 20 20 | 2 58 | 20 16 | 20 33 | 3 6 | 2 37 | 3 45 |
| W15 | 14 6 | 18 13 | 0n36 | 2 10 | 2 7 | 3 59 | 1 3 | 13 52 | 2 21 | 14 14 | 0 56 | 8 27 | 2 38 | 2 36 | 0 47 | 18 18 | 0 1 | 20 20 | 2 58 | 20 16 | 20 33 | 3 3 | 2 36 | 3 45 |
| T 16 | 13 47 | 13 52 | 1 40 | 1 40 | 2 17 | 3 28 | 1 1 | 14 1 | 2 21 | 14 16 | 0 55 | 8 26 | 2 38 | 2 36 | 0 47 | 18 18 | 0 1 | 20 20 | 2 58 | 20 17 | 20 34 | 3 0 | 2 35 | 3 45 |
| F 17 | 13 28 | 9 1 | 2 39 | 1 11 | 2 28 | 2 57 | 0 59 | 14 10 | 2 20 | 14 19 | 0 55 | 8 26 | 2 38 | 2 37 | 0 47 | 18 19 | 0 1 | 20 20 | 2 58 | 20 17 | 20 34 | 2 57 | 2 35 | 3 45 |
| S 18 | 13 9 | 3 53 | 3 31 | 0 44 | 2 38 | 2 26 | 0 57 | 14 19 | 2 20 | 14 21 | 0 55 | 8 25 | 2 39 | 2 38 | 0 47 | 18 19 | 0 1 | 20 20 | 2 58 | 20 18 | 20 35 | 2 53 | 2 34 | 3 45 |
| S 19 | 12 50 | 1n22 | 4 14 | 0 17 | 2 48 | 1 55 | 0 54 | 14 28 | 2 19 | 14 23 | 0 55 | 8 25 | 2 39 | 2 39 | 0 47 | 18 19 | 0 1 | 20 20 | 2 58 | 20 19 | 20 36 | 2 50 | 2 33 | 3 45 |
| M20 | 12 30 | 6 34 | 4 46 | 0s 7 | 2 58 | 1 24 | 0 52 | 14 37 | 2 19 | 14 26 | 0 54 | 8 24 | 2 39 | 2 40 | 0 47 | 18 20 | 0 1 | 20 20 | 2 58 | 20 20 | 20 36 | 2 47 | 2 32 | 3 46 |
| T 21 | 12 10 | 11 34 | 5 6 | 0 30 | 3 8 | 0 53 | 0 50 | 14 46 | 2 18 | 14 28 | 0 54 | 8 24 | 2 39 | 2 41 | 0 48 | 18 20 | 0 1 | 20 20 | 2 58 | 20 21 | 20 37 | 2 44 | 2 31 | 3 46 |
| W22 | 11 50 | 16 10 | 5 13 | 0 51 | 3 17 | 0 22 | 0 47 | 14 54 | 2 18 | 14 31 | 0 54 | 8 23 | 2 40 | 2 41 | 0 48 | 18 21 | 0 1 | 20 20 | 2 58 | 20 21 | 20 38 | 2 41 | 2 30 | 3 46 |
| T 23 | 11 29 | 20 12 | 5 5 | 1 10 | 3 26 | 0s 9 | 0 45 | 15 3 | 2 17 | 14 34 | 0 54 | 8 22 | 2 40 | 2 42 | 0 48 | 18 21 | 0 1 | 20 20 | 2 58 | 20 22 | 20 38 | 2 38 | 2 29 | 3 46 |
| F 24 | 11 9 | 23 25 | 4 44 | 1 27 | 3 35 | 0 40 | 0 42 | 15 11 | 2 17 | 14 36 | 0 54 | 8 21 | 2 40 | 2 43 | 0 48 | 18 21 | 0 1 | 20 19 | 2 58 | 20 22 | 20 39 | 2 35 | 2 28 | 3 46 |
| S 25 | 10 48 | 25 34 | 4 8 | 1 41 | 3 43 | 1 11 | 0 39 | 15 19 | 2 16 | 14 39 | 0 53 | 8 21 | 2 40 | 2 44 | 0 48 | 18 22 | 0 1 | 20 19 | 2 58 | 20 22 | 20 40 | 2 32 | 2 27 | 3 46 |
| S 26 | 10 27 | 26 23 | 3 18 | 1 53 | 3 51 | 1 42 | 0 36 | 15 27 | 2 16 | 14 41 | 0 53 | 8 20 | 2 41 | 2 45 | 0 48 | 18 22 | 0 1 | 20 19 | 2 58 | 20 22 | 20 40 | 2 28 | 2 26 | 3 46 |
| M27 | 10 6 | 25 42 | 2 16 | 2 2 | 3 58 | 2 14 | 0 34 | 15 35 | 2 15 | 14 44 | 0 53 | 8 19 | 2 41 | 2 46 | 0 48 | 18 23 | 0 1 | 20 19 | 2 58 | 20 22 | 20 41 | 2 25 | 2 25 | 3 46 |
| T 28 | 9 45 | 23 23 | 1 3 | 2 8 | 4 4 | 2 45 | 0 31 | 15 42 | 2 15 | 14 47 | 0 53 | 8 18 | 2 41 | 2 47 | 0 48 | 18 23 | 0 1 | 20 19 | 2 58 | 20 22 | 20 41 | 2 22 | 2 24 | 3 46 |
| W29 | 9 24 | 19 32 | 0s15 | 2 10 | 4 9 | 3 16 | 0 28 | 15 50 | 2 14 | 14 50 | 0 52 | 8 17 | 2 41 | 2 47 | 0 48 | 18 23 | 0 1 | 20 19 | 2 58 | 20 21 | 20 42 | 2 19 | 2 23 | 3 46 |
| T 30 | 9 2 | 14 21 | 1 34 | 2 10 | 4 14 | 3 47 | 0 25 | 15 57 | 2 13 | 14 52 | 0 52 | 8 16 | 2 42 | 2 48 | 0 48 | 18 24 | 0 1 | 20 19 | 2 58 | 20 22 | 20 43 | 2 16 | 2 22 | 3 46 |
| F 31 | 8n41 | 8n14 | 2s48 | 2s 6 | 4s17 | 4s18 | 0n22 | 16n 4 | 2s13 | 14s55 | 0n52 | 8n15 | 2s42 | 2s49 | 0s48 | 18s24 | 0s 1 | 20n19 | 2s58 | 20s22 | 20s43 | 2s13 | 2n21 | 3n46 |

Julian Day Number = 2332688.5, Delta T = 26.87 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'53, Lahiri = 19°18'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## SEPTEMBER 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 41 43 | 8♍43'16 | 17♍ 5 | 24°R59 | 12♎54 | 22♉ 2 | 13♏ 5 | 27°R57 | 24°R42 | 7°R38 | 7♋20 | 29°R 3 | 27♑20 | 15♓33 | 27°R13 | S 1 |
| S 2 | 22 45 39 | 9°41'31 | 2♎18 | 24♍29 | 14° 6 | 22°26 | 13°14 | 27♈55 | 24♓40 | 7♒37 | 7°21 | 28♑57 | 27°17 | 15°40 | 27♓10 | S 2 |
| M 3 | 22 49 36 | 10°39'48 | 17°19 | 23°52 | 15°18 | 22°50 | 13°23 | 27°52 | 24°38 | 7°36 | 7°22 | 28°51 | 27°13 | 15°47 | 27° 7 | M 3 |
| T 4 | 22 53 32 | 11°38'06 | 2♏ 0 | 23° 9 | 16°30 | 23°13 | 13°32 | 27°50 | 24°35 | 7°34 | 7°23 | 28°45 | 27°10 | 15°53 | 27° 5 | T 4 |
| W 5 | 22 57 29 | 12°36'26 | 16°15 | 22°21 | 17°42 | 23°36 | 13°41 | 27°47 | 24°33 | 7°33 | 7°23 | 28°41 | 27° 7 | 16° 0 | 27° 2 | W 5 |
| T 6 | 23 1 25 | 13°34'47 | 0♐ 1 | 21°28 | 18°54 | 23°58 | 13°50 | 27°45 | 24°31 | 7°32 | 7°24 | 28°38 | 27° 4 | 16° 7 | 26°59 | T 6 |
| F 7 | 23 5 22 | 14°33'11 | 13°20 | 20°31 | 20° 5 | 24°20 | 14° 0 | 27°42 | 24°28 | 7°31 | 7°25 | 28°D37 | 27° 1 | 16°13 | 26°56 | F 7 |
| S 8 | 23 9 19 | 15°31'35 | 26°14 | 19°31 | 21°17 | 24°41 | 14° 9 | 27°39 | 24°26 | 7°29 | 7°25 | 28°38 | 26°57 | 16°20 | 26°54 | S 8 |
| S 9 | 23 13 15 | 16°30'02 | 8♑48 | 18°29 | 22°29 | 25° 1 | 14°19 | 27°36 | 24°24 | 7°28 | 7°26 | 28°39 | 26°54 | 16°27 | 26°51 | S 9 |
| M10 | 23 17 12 | 17°28'30 | 21° 5 | 17°27 | 23°40 | 25°21 | 14°29 | 27°33 | 24°21 | 7°27 | 7°27 | 28°40 | 26°51 | 16°34 | 26°48 | M10 |
| T 11 | 23 21 8 | 18°26'59 | 3♒10 | 16°26 | 24°52 | 25°41 | 14°39 | 27°30 | 24°19 | 7°26 | 7°27 | 28°R40 | 26°48 | 16°40 | 26°46 | T 11 |
| W12 | 23 25 5 | 19°25'30 | 15° 6 | 15°27 | 26° 4 | 25°59 | 14°49 | 27°27 | 24°16 | 7°25 | 7°28 | 28°39 | 26°45 | 16°47 | 26°43 | W12 |
| T 13 | 23 29 1 | 20°24'03 | 26°58 | 14°33 | 27°15 | 26°18 | 14°59 | 27°24 | 24°14 | 7°24 | 7°29 | 28°35 | 26°42 | 16°54 | 26°40 | T 13 |
| F 14 | 23 32 58 | 21°22'38 | 8♓48 | 13°44 | 28°27 | 26°35 | 15° 9 | 27°20 | 24°12 | 7°23 | 7°29 | 28°29 | 26°38 | 17° 0 | 26°37 | F 14 |
| S 15 | 23 36 54 | 22°21'15 | 20°39 | 13° 1 | 29°38 | 26°52 | 15°19 | 27°17 | 24° 9 | 7°22 | 7°30 | 28°20 | 26°35 | 17° 7 | 26°34 | S 15 |
| S 16 | 23 40 51 | 23°19'53 | 2♈31 | 12°26 | 0♏49 | 27° 9 | 15°29 | 27°13 | 24° 7 | 7°21 | 7°30 | 28°10 | 26°32 | 17°14 | 26°32 | S 16 |
| M17 | 23 44 48 | 24°18'34 | 14°27 | 12° 0 | 2° 1 | 27°25 | 15°40 | 27°10 | 24° 4 | 7°20 | 7°31 | 27°59 | 26°29 | 17°20 | 26°29 | M17 |
| T 18 | 23 48 44 | 25°17'17 | 26°29 | 11°44 | 3°12 | 27°40 | 15°50 | 27° 6 | 24° 2 | 7°19 | 7°31 | 27°49 | 26°26 | 17°27 | 26°26 | T 18 |
| W19 | 23 52 41 | 26°16'02 | 8♉37 | 11°D37 | 4°23 | 27°54 | 16° 1 | 27° 2 | 24° 0 | 7°18 | 7°32 | 27°39 | 26°23 | 17°34 | 26°23 | W19 |
| T 20 | 23 56 37 | 27°14'49 | 20°54 | 11°40 | 5°34 | 28° 8 | 16°12 | 26°59 | 23°57 | 7°17 | 7°32 | 27°31 | 26°19 | 17°40 | 26°20 | T 20 |
| F 21 | 0 0 34 | 28°13'38 | 3♊23 | 11°53 | 6°46 | 28°21 | 16°22 | 26°55 | 23°55 | 7°16 | 7°32 | 27°26 | 26°16 | 17°47 | 26°18 | F 21 |
| S 22 | 0 4 30 | 29°12'30 | 16° 6 | 12°16 | 7°57 | 28°34 | 16°33 | 26°51 | 23°52 | 7°15 | 7°33 | 27°23 | 26°13 | 17°54 | 26°15 | S 22 |
| S 23 | 0 8 27 | 0♎11'24 | 29° 8 | 12°48 | 9° 8 | 28°45 | 16°44 | 26°47 | 23°50 | 7°14 | 7°33 | 27°D22 | 26°10 | 18° 0 | 26°12 | S 23 |
| M24 | 0 12 23 | 1°10'20 | 12♋31 | 13°30 | 10°19 | 28°56 | 16°55 | 26°43 | 23°48 | 7°13 | 7°34 | 27°23 | 26° 7 | 18° 7 | 26° 9 | M24 |
| T 25 | 0 16 20 | 2° 9'19 | 26°19 | 14°19 | 11°30 | 29° 6 | 17° 6 | 26°39 | 23°45 | 7°13 | 7°34 | 27°R23 | 26° 3 | 18°14 | 26° 6 | T 25 |
| W26 | 0 20 17 | 3° 8'20 | 10♌32 | 15°17 | 12°40 | 29°16 | 17°18 | 26°35 | 23°43 | 7°12 | 7°34 | 27°22 | 26° 0 | 18°21 | 26° 4 | W26 |
| T 27 | 0 24 13 | 4° 7'23 | 25°10 | 16°22 | 13°51 | 29°24 | 17°29 | 26°30 | 23°40 | 7°11 | 7°34 | 27°20 | 25°57 | 18°27 | 26° 1 | T 27 |
| F 28 | 0 28 10 | 5° 6'29 | 10♍ 8 | 17°34 | 15° 2 | 29°32 | 17°40 | 26°26 | 23°38 | 7°10 | 7°35 | 27°14 | 25°54 | 18°34 | 25°58 | F 28 |
| S 29 | 0 32 6 | 6° 5'36 | 25°20 | 18°51 | 16°13 | 29°39 | 17°52 | 26°22 | 23°36 | 7°10 | 7°35 | 27° 7 | 25°51 | 18°41 | 25°55 | S 29 |
| S 30 | 0 36 3 | 7♎ 4'46 | 10♎35 | 20♍13 | 17♏23 | 29♉45 | 18♏ 3 | 26♈17 | 23♓33 | 7♒ 9 | 7♋35 | 26♑57 | 25♑48 | 18♓47 | 25♓53 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n19 | 1n34 | 3s51 | 1s58 | 4s19 | 4s49 | 0n19 | 16n11 | 2s12 | 14s58 | 0n52 | 8n14 | 2s42 | 2s50 | 0s48 | 18s24 | 0s 1 | 20n19 | 2s58 | 20s23 | 20s44 | 2s10 | 2n20 | 3n46 |
| S 2 | 7 57 | 5s 9 | 4 37 | 1 46 | 4 19 | 5 20 | 0 16 | 16 18 | 2 11 | 15 1 | 0 52 | 8 13 | 2 42 | 2 51 | 0 48 | 18 25 | 0 1 | 20 19 | 2 58 | 20 24 | 20 45 | 2 7 | 2 19 | 3 46 |
| M 3 | 7 35 | 11 29 | 5 3 | 1 31 | 4 18 | 5 50 | 0 13 | 16 25 | 2 10 | 15 4 | 0 51 | 8 12 | 2 43 | 2 52 | 0 48 | 18 25 | 0 1 | 20 19 | 2 58 | 20 26 | 20 45 | 2 3 | 2 18 | 3 46 |
| T 4 | 7 13 | 17 1 | 5 9 | 1 11 | 4 15 | 6 21 | 0 10 | 16 31 | 2 10 | 15 7 | 0 51 | 8 11 | 2 43 | 2 53 | 0 48 | 18 25 | 0 1 | 20 19 | 2 58 | 20 27 | 20 46 | 2 0 | 2 17 | 3 46 |
| W 5 | 6 50 | 21 26 | 4 55 | 0 48 | 4 11 | 6 51 | 0 7 | 16 38 | 2 9 | 15 10 | 0 51 | 8 10 | 2 43 | 2 54 | 0 48 | 18 26 | 0 1 | 20 19 | 2 58 | 20 28 | 20 46 | 1 57 | 2 16 | 3 46 |
| T 6 | 6 28 | 24 30 | 4 24 | 0 21 | 4 4 | 7 22 | 0 3 | 16 44 | 2 8 | 15 13 | 0 51 | 8 9 | 2 43 | 2 55 | 0 48 | 18 26 | 0 1 | 20 19 | 2 58 | 20 28 | 20 47 | 1 54 | 2 15 | 3 46 |
| F 7 | 6 6 | 26 5 | 3 40 | 0n 9 | 3 56 | 7 52 | 0 0 | 16 50 | 2 7 | 15 16 | 0 51 | 8 8 | 2 43 | 2 56 | 0 48 | 18 26 | 0 1 | 20 19 | 2 58 | 20 28 | 20 48 | 1 51 | 2 14 | 3 46 |
| S 8 | 5 43 | 26 12 | 2 46 | 0 42 | 3 46 | 8 22 | 0s 3 | 16 56 | 2 6 | 15 19 | 0 51 | 8 7 | 2 44 | 2 57 | 0 48 | 18 27 | 0 1 | 20 19 | 2 58 | 20 28 | 20 48 | 1 48 | 2 13 | 3 46 |
| S 9 | 5 20 | 24 57 | 1 45 | 1 17 | 3 33 | 8 52 | 0 7 | 17 2 | 2 5 | 15 22 | 0 50 | 8 5 | 2 44 | 2 58 | 0 48 | 18 27 | 0 1 | 20 19 | 2 58 | 20 28 | 20 49 | 1 45 | 2 12 | 3 46 |
| M10 | 4 57 | 22 30 | 0 41 | 1 55 | 3 19 | 9 22 | 0 10 | 17 8 | 2 4 | 15 25 | 0 50 | 8 4 | 2 44 | 2 59 | 0 48 | 18 27 | 0 1 | 20 19 | 2 58 | 20 28 | 20 49 | 1 42 | 2 11 | 3 46 |
| T 11 | 4 35 | 19 6 | 0n24 | 2 33 | 3 3 | 9 51 | 0 13 | 17 13 | 2 3 | 15 28 | 0 50 | 8 3 | 2 44 | 3 0 | 0 48 | 18 28 | 0 1 | 20 19 | 2 58 | 20 28 | 20 50 | 1 39 | 2 10 | 3 46 |
| W12 | 4 12 | 14 57 | 1 27 | 3 11 | 2 46 | 10 20 | 0 17 | 17 19 | 2 2 | 15 31 | 0 50 | 8 1 | 2 44 | 3 1 | 0 48 | 18 28 | 0 1 | 20 19 | 2 58 | 20 28 | 20 51 | 1 35 | 2 8 | 3 46 |
| T 13 | 3 49 | 10 15 | 2 26 | 3 49 | 2 28 | 10 50 | 0 20 | 17 24 | 2 1 | 15 34 | 0 50 | 8 0 | 2 45 | 3 1 | 0 48 | 18 28 | 0 1 | 20 19 | 2 58 | 20 29 | 20 51 | 1 32 | 2 7 | 3 46 |
| F 14 | 3 26 | 5 13 | 3 18 | 4 26 | 2 9 | 11 18 | 0 24 | 17 29 | 2 0 | 15 37 | 0 49 | 7 59 | 2 45 | 3 2 | 0 48 | 18 29 | 0 1 | 20 18 | 2 58 | 20 30 | 20 52 | 1 29 | 2 6 | 3 45 |
| S 15 | 3 2 | 0 0 | 4 2 | 5 0 | 1 49 | 11 47 | 0 27 | 17 34 | 1 59 | 15 40 | 0 49 | 7 57 | 2 45 | 3 3 | 0 48 | 18 29 | 0 1 | 20 18 | 2 58 | 20 32 | 20 53 | 1 26 | 2 5 | 3 45 |
| S 16 | 2 39 | 5n12 | 4 35 | 5 32 | 1 29 | 12 16 | 0 31 | 17 39 | 1 57 | 15 44 | 0 49 | 7 56 | 2 45 | 3 4 | 0 48 | 18 29 | 0 1 | 20 18 | 2 58 | 20 34 | 20 53 | 1 23 | 2 4 | 3 45 |
| M17 | 2 16 | 10 15 | 4 56 | 6 0 | 1 9 | 12 44 | 0 34 | 17 44 | 1 56 | 15 47 | 0 49 | 7 55 | 2 45 | 3 5 | 0 48 | 18 29 | 0 1 | 20 18 | 2 58 | 20 36 | 20 54 | 1 20 | 2 3 | 3 45 |
| T 18 | 1 53 | 14 57 | 5 4 | 6 25 | 0 50 | 13 12 | 0 38 | 17 48 | 1 55 | 15 50 | 0 49 | 7 53 | 2 45 | 3 6 | 0 48 | 18 30 | 0 1 | 20 18 | 2 58 | 20 38 | 20 54 | 1 17 | 2 1 | 3 45 |
| W19 | 1 29 | 19 7 | 4 59 | 6 45 | 0 31 | 13 39 | 0 41 | 17 53 | 1 54 | 15 53 | 0 49 | 7 52 | 2 46 | 3 7 | 0 48 | 18 30 | 0 1 | 20 18 | 2 58 | 20 40 | 20 55 | 1 14 | 2 0 | 3 45 |
| T 20 | 1 6 | 22 30 | 4 40 | 7 1 | 0 12 | 14 6 | 0 45 | 17 57 | 1 52 | 15 56 | 0 48 | 7 50 | 2 46 | 3 8 | 0 48 | 18 30 | 0 1 | 20 18 | 2 58 | 20 42 | 20 56 | 1 11 | 1 59 | 3 45 |
| F 21 | 0 42 | 24 54 | 4 7 | 7 12 | 0n 5 | 14 33 | 0 48 | 18 2 | 1 51 | 16 0 | 0 48 | 7 49 | 2 46 | 3 9 | 0 48 | 18 30 | 0 1 | 20 18 | 2 58 | 20 43 | 20 56 | 1 7 | 1 58 | 3 45 |
| S 22 | 0 19 | 26 6 | 3 22 | 7 18 | 0 21 | 15 0 | 0 52 | 18 6 | 1 50 | 16 3 | 0 48 | 7 47 | 2 46 | 3 10 | 0 48 | 18 31 | 0 1 | 20 18 | 2 58 | 20 43 | 20 57 | 1 4 | 1 57 | 3 45 |
| S 23 | 0s 5 | 25 53 | 2 25 | 7 19 | 0 36 | 15 26 | 0 55 | 18 10 | 1 48 | 16 6 | 0 48 | 7 46 | 2 46 | 3 11 | 0 48 | 18 31 | 0 1 | 20 18 | 2 58 | 20 43 | 20 57 | 1 1 | 1 55 | 3 45 |
| M24 | 0 28 | 24 12 | 1 18 | 7 16 | 0 50 | 15 52 | 0 59 | 18 13 | 1 47 | 16 9 | 0 48 | 7 44 | 2 46 | 3 12 | 0 48 | 18 31 | 0 1 | 20 18 | 2 58 | 20 43 | 20 58 | 0 58 | 1 54 | 3 45 |
| T 25 | 0 52 | 21 1 | 0 6 | 7 8 | 1 2 | 16 18 | 1 3 | 18 17 | 1 45 | 16 13 | 0 48 | 7 42 | 2 47 | 3 13 | 0 48 | 18 31 | 0 1 | 20 18 | 2 58 | 20 43 | 20 59 | 0 55 | 1 53 | 3 45 |
| W26 | 1 15 | 16 31 | 1s 9 | 6 56 | 1 13 | 16 43 | 1 6 | 18 21 | 1 43 | 16 16 | 0 47 | 7 41 | 2 47 | 3 14 | 0 48 | 18 31 | 0 1 | 20 18 | 2 58 | 20 43 | 20 59 | 0 52 | 1 52 | 3 45 |
| T 27 | 1 39 | 10 56 | 2 22 | 6 40 | 1 23 | 17 8 | 1 10 | 18 24 | 1 42 | 16 19 | 0 47 | 7 39 | 2 47 | 3 15 | 0 48 | 18 32 | 0 1 | 20 18 | 2 58 | 20 44 | 21 0 | 0 49 | 1 51 | 3 44 |
| F 28 | 2 2 | 4 36 | 3 27 | 6 19 | 1 31 | 17 32 | 1 13 | 18 27 | 1 40 | 16 23 | 0 47 | 7 37 | 2 47 | 3 16 | 0 48 | 18 32 | 0 1 | 20 18 | 2 58 | 20 45 | 21 0 | 0 46 | 1 50 | 3 44 |
| S 29 | 2 25 | 2s 5 | 4 17 | 5 56 | 1 38 | 17 57 | 1 17 | 18 31 | 1 38 | 16 26 | 0 47 | 7 36 | 2 47 | 3 17 | 0 48 | 18 32 | 0 1 | 20 18 | 2 58 | 20 46 | 21 1 | 0 43 | 1 48 | 3 44 |
| S 30 | 2s49 | 8s38 | 4s50 | 5n29 | 1n44 | 18s20 | 1s20 | 18n34 | 1s37 | 16s29 | 0n47 | 7n34 | 2s47 | 3s17 | 0s48 | 18s32 | 0s 1 | 20n18 | 2s58 | 20s48 | 21s 2 | 0s39 | 1n47 | 3n44 |

Julian Day Number = 2332719.5, Delta T = 26.82 sec
Ecliptic obliquity = 23°28'59, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°11'57, Lahiri = 19°18'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## OCTOBER 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 39 59 | 8♎ 3'58 | 25♎42 | 21♍40 | 18♏34 | 29♉51 | 18♏15 | 26°R13 | 23°R31 | 7°R 9 | 7♋35 | 26°R46 | 25♑44 | 18♓54 | 25°R50 | M 1 |
| T 2 | 0 43 56 | 9° 3'12 | 10♏31 | 23°10 | 19°45 | 29°55 | 18°26 | 26♈ 9 | 23♓29 | 7♒ 8 | 7°35 | 26♑36 | 25°41 | 19° 1 | 25♓47 | T 2 |
| W 3 | 0 47 52 | 10° 2'28 | 24°55 | 24°43 | 20°55 | 29°59 | 18°38 | 26° 4 | 23°26 | 7° 7 | 7°35 | 26°28 | 25°38 | 19° 7 | 25°44 | W 3 |
| T 4 | 0 51 49 | 11° 1'45 | 8♐50 | 26°19 | 22° 6 | 0♊ 2 | 18°50 | 26° 0 | 23°24 | 7° 7 | 7°36 | 26°21 | 25°35 | 19°14 | 25°42 | T 4 |
| F 5 | 0 55 45 | 12° 1'05 | 22°14 | 27°58 | 23°16 | 0° 4 | 19° 2 | 25°55 | 23°22 | 7° 7 | 7°36 | 26°18 | 25°32 | 19°21 | 25°39 | F 5 |
| S 6 | 0 59 42 | 13° 0'26 | 5♑11 | 29°37 | 24°26 | 0° 5 | 19°14 | 25°50 | 23°20 | 7° 6 | 7°36 | 26°16 | 25°28 | 19°28 | 25°36 | S 6 |
| S 7 | 1 3 39 | 13°59'49 | 17°45 | 1♎19 | 25°36 | 0°R 5 | 19°26 | 25°46 | 23°17 | 7° 6 | 7°36 | 26°D16 | 25°25 | 19°34 | 25°34 | S 7 |
| M 8 | 1 7 35 | 14°59'14 | 29°59 | 3° 1 | 26°46 | 0° 4 | 19°38 | 25°41 | 23°15 | 7° 5 | 7°R36 | 26°R16 | 25°22 | 19°41 | 25°31 | M 8 |
| T 9 | 1 11 32 | 15°58'40 | 12♒ 1 | 4°43 | 27°57 | 0° 3 | 19°50 | 25°36 | 23°13 | 7° 5 | 7°36 | 26°15 | 25°19 | 19°48 | 25°29 | T 9 |
| W10 | 1 15 28 | 16°58'09 | 23°54 | 6°27 | 29° 6 | 0° 0 | 20° 2 | 25°32 | 23°11 | 7° 5 | 7°36 | 26°12 | 25°16 | 19°54 | 25°26 | W10 |
| T 11 | 1 19 25 | 17°57'39 | 5♓44 | 8°10 | 0♐16 | 29♉57 | 20°14 | 25°27 | 23° 9 | 7° 4 | 7°36 | 26° 7 | 25°13 | 20° 1 | 25°23 | T 11 |
| F 12 | 1 23 21 | 18°57'11 | 17°33 | 9°54 | 1°26 | 29°53 | 20°26 | 25°22 | 23° 7 | 7° 4 | 7°36 | 25°58 | 25° 9 | 20° 8 | 25°21 | F 12 |
| S 13 | 1 27 18 | 19°56'45 | 29°26 | 11°38 | 2°36 | 29°48 | 20°39 | 25°17 | 23° 5 | 7° 4 | 7°35 | 25°47 | 25° 6 | 20°14 | 25°18 | S 13 |
| S 14 | 1 31 14 | 20°56'21 | 11♈23 | 13°21 | 3°45 | 29°42 | 20°51 | 25°13 | 23° 3 | 7° 4 | 7°35 | 25°34 | 25° 3 | 20°21 | 25°16 | S 14 |
| M15 | 1 35 11 | 21°55'58 | 23°28 | 15° 4 | 4°55 | 29°35 | 21° 3 | 25° 8 | 23° 1 | 7° 4 | 7°35 | 25°20 | 25° 0 | 20°28 | 25°14 | M15 |
| T 16 | 1 39 8 | 22°55'38 | 5♉39 | 16°47 | 6° 4 | 29°27 | 21°16 | 25° 3 | 22°59 | 7° 3 | 7°35 | 25° 5 | 24°57 | 20°34 | 25°11 | T 16 |
| W17 | 1 43 4 | 23°55'20 | 17°59 | 18°30 | 7°14 | 29°18 | 21°28 | 24°58 | 22°57 | 7° 3 | 7°35 | 24°52 | 24°54 | 20°41 | 25° 9 | W17 |
| T 18 | 1 47 1 | 24°55'04 | 0♊28 | 20°12 | 8°23 | 29° 9 | 21°41 | 24°53 | 22°55 | 7° 3 | 7°34 | 24°42 | 24°50 | 20°48 | 25° 6 | T 18 |
| F 19 | 1 50 57 | 25°54'51 | 13° 8 | 21°54 | 9°32 | 28°58 | 21°54 | 24°49 | 22°53 | 7°D 3 | 7°34 | 24°34 | 24°47 | 20°55 | 25° 4 | F 19 |
| S 20 | 1 54 54 | 26°54'39 | 25°59 | 23°35 | 10°41 | 28°47 | 22° 6 | 24°44 | 22°51 | 7° 3 | 7°34 | 24°29 | 24°44 | 21° 1 | 25° 2 | S 20 |
| S 21 | 1 58 50 | 27°54'30 | 9♋ 4 | 25°15 | 11°50 | 28°35 | 22°19 | 24°39 | 22°49 | 7° 3 | 7°34 | 24°27 | 24°41 | 21° 8 | 25° 0 | S 21 |
| M22 | 2 2 47 | 28°54'23 | 22°25 | 26°56 | 12°59 | 28°22 | 22°32 | 24°34 | 22°47 | 7° 3 | 7°33 | 24°27 | 24°38 | 21°15 | 24°57 | M22 |
| T 23 | 2 6 43 | 29°54'18 | 6♌ 5 | 28°35 | 14° 8 | 28° 9 | 22°44 | 24°29 | 22°45 | 7° 4 | 7°33 | 24°27 | 24°34 | 21°21 | 24°55 | T 23 |
| W24 | 2 10 40 | 0♏54'16 | 20° 5 | 0♏15 | 15°16 | 27°54 | 22°57 | 24°25 | 22°44 | 7° 4 | 7°33 | 24°26 | 24°31 | 21°28 | 24°53 | W24 |
| T 25 | 2 14 37 | 1°54'15 | 4♍25 | 1°53 | 16°25 | 27°39 | 23°10 | 24°20 | 22°42 | 7° 4 | 7°32 | 24°23 | 24°28 | 21°35 | 24°51 | T 25 |
| F 26 | 2 18 33 | 2°54'17 | 19° 5 | 3°31 | 17°33 | 27°23 | 23°23 | 24°15 | 22°40 | 7° 4 | 7°32 | 24°17 | 24°25 | 21°41 | 24°49 | F 26 |
| S 27 | 2 22 30 | 3°54'21 | 3♎57 | 5° 9 | 18°41 | 27° 6 | 23°36 | 24°10 | 22°39 | 7° 4 | 7°31 | 24° 9 | 24°22 | 21°48 | 24°47 | S 27 |
| S 28 | 2 26 26 | 4°54'27 | 18°56 | 6°46 | 19°50 | 26°49 | 23°49 | 24° 6 | 22°37 | 7° 5 | 7°31 | 23°58 | 24°19 | 21°55 | 24°45 | S 28 |
| M29 | 2 30 23 | 5°54'35 | 3♏52 | 8°23 | 20°58 | 26°31 | 24° 2 | 24° 1 | 22°35 | 7° 5 | 7°30 | 23°46 | 24°15 | 22° 2 | 24°43 | M29 |
| T 30 | 2 34 19 | 6°54'45 | 18°35 | 10° 0 | 22° 5 | 26°12 | 24°15 | 23°56 | 22°34 | 7° 5 | 7°30 | 23°35 | 24°12 | 22° 8 | 24°41 | T 30 |
| W31 | 2 38 16 | 7♏54'56 | 2♐58 | 11♏35 | 23♐13 | 25♉53 | 24♏28 | 23♈52 | 22♓32 | 7♒ 6 | 7♋29 | 23♑25 | 24♑ 9 | 22♓15 | 24♓39 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3s12 | 14s38 | 5s 2 | 4n59 | 1n49 | 18s43 | 1s24 | 18n36 | 1s35 | 16s33 | 0n47 | 7n32 | 2s47 | 3s18 | 0s48 | 18s32 | 0s 1 | 20n18 | 2s58 | 20s50 | 21s 2 | 0s36 | 1n46 | 3n44 |
| T 2 | 3 36 | 19 38 | 4 53 | 4 26 | 1 52 | 19 6 | 1 27 | 18 39 | 1 33 | 16 36 | 0 47 | 7 31 | 2 47 | 3 19 | 0 48 | 18 32 | 0 1 | 20 18 | 2 58 | 20 52 | 21 3 | 0 33 | 1 45 | 3 44 |
| W 3 | 3 59 | 23 20 | 4 26 | 3 51 | 1 55 | 19 28 | 1 31 | 18 42 | 1 31 | 16 39 | 0 46 | 7 29 | 2 47 | 3 20 | 0 48 | 18 33 | 0 1 | 20 18 | 2 58 | 20 54 | 21 3 | 0 30 | 1 44 | 3 44 |
| T 4 | 4 22 | 25 29 | 3 43 | 3 15 | 1 56 | 19 50 | 1 34 | 18 44 | 1 29 | 16 43 | 0 46 | 7 27 | 2 47 | 3 21 | 0 48 | 18 33 | 0 1 | 20 18 | 2 58 | 20 55 | 21 4 | 0 27 | 1 42 | 3 44 |
| F 5 | 4 46 | 26 5 | 2 50 | 2 36 | 1 57 | 20 12 | 1 38 | 18 47 | 1 27 | 16 46 | 0 46 | 7 26 | 2 47 | 3 22 | 0 48 | 18 33 | 0 1 | 20 18 | 2 58 | 20 56 | 21 4 | 0 24 | 1 41 | 3 44 |
| S 6 | 5 9 | 25 12 | 1 49 | 1 56 | 1 57 | 20 33 | 1 41 | 18 49 | 1 25 | 16 50 | 0 46 | 7 24 | 2 48 | 3 23 | 0 48 | 18 33 | 0 1 | 20 18 | 2 58 | 20 56 | 21 5 | 0 21 | 1 40 | 3 43 |
| S 7 | 5 32 | 23 3 | 0 45 | 1 15 | 1 56 | 20 53 | 1 44 | 18 51 | 1 23 | 16 53 | 0 46 | 7 22 | 2 48 | 3 24 | 0 48 | 18 33 | 0 1 | 20 18 | 2 58 | 20 56 | 21 6 | 0 18 | 1 39 | 3 43 |
| M 8 | 5 55 | 19 52 | 0n20 | 0 33 | 1 54 | 21 13 | 1 48 | 18 53 | 1 21 | 16 56 | 0 46 | 7 20 | 2 48 | 3 25 | 0 47 | 18 33 | 0 1 | 20 18 | 2 58 | 20 56 | 21 6 | 0 15 | 1 38 | 3 43 |
| T 9 | 6 18 | 15 54 | 1 22 | 0s10 | 1 52 | 21 32 | 1 51 | 18 55 | 1 19 | 17 0 | 0 46 | 7 19 | 2 48 | 3 25 | 0 47 | 18 33 | 0 1 | 20 18 | 2 58 | 20 56 | 21 7 | 0 12 | 1 37 | 3 43 |
| W10 | 6 41 | 11 22 | 2 21 | 0 53 | 1 49 | 21 51 | 1 54 | 18 57 | 1 16 | 17 3 | 0 45 | 7 17 | 2 48 | 3 26 | 0 47 | 18 33 | 0 1 | 20 18 | 2 58 | 20 57 | 21 7 | 0 9 | 1 35 | 3 43 |
| T 11 | 7 3 | 6 27 | 3 12 | 1 37 | 1 46 | 22 9 | 1 57 | 18 58 | 1 14 | 17 7 | 0 45 | 7 15 | 2 48 | 3 27 | 0 47 | 18 34 | 0 1 | 20 18 | 2 58 | 20 58 | 21 8 | 0 5 | 1 34 | 3 43 |
| F 12 | 7 26 | 1 18 | 3 56 | 2 22 | 1 42 | 22 27 | 2 0 | 19 0 | 1 12 | 17 10 | 0 45 | 7 13 | 2 48 | 3 28 | 0 47 | 18 34 | 0 1 | 20 18 | 2 58 | 20 59 | 21 9 | 0 2 | 1 33 | 3 42 |
| S 13 | 7 49 | 3n53 | 4 29 | 3 6 | 1 38 | 22 44 | 2 4 | 19 1 | 1 9 | 17 13 | 0 45 | 7 12 | 2 48 | 3 29 | 0 47 | 18 34 | 0 1 | 20 18 | 2 58 | 21 2 | 21 9 | 0n 1 | 1 32 | 3 42 |
| S 14 | 8 11 | 8 58 | 4 50 | 3 51 | 1 34 | 23 1 | 2 7 | 19 2 | 1 7 | 17 17 | 0 45 | 7 10 | 2 48 | 3 29 | 0 47 | 18 34 | 0 1 | 20 18 | 2 58 | 21 4 | 21 10 | 0 4 | 1 31 | 3 42 |
| M15 | 8 34 | 13 45 | 4 59 | 4 35 | 1 29 | 23 17 | 2 10 | 19 3 | 1 4 | 17 20 | 0 45 | 7 8 | 2 48 | 3 30 | 0 47 | 18 34 | 0 1 | 20 18 | 2 58 | 21 7 | 21 10 | 0 7 | 1 30 | 3 42 |
| T 16 | 8 56 | 18 3 | 4 54 | 5 19 | 1 24 | 23 32 | 2 13 | 19 4 | 1 2 | 17 23 | 0 45 | 7 6 | 2 48 | 3 31 | 0 47 | 18 34 | 0 1 | 20 18 | 2 58 | 21 9 | 21 11 | 0 10 | 1 29 | 3 42 |
| W17 | 9 18 | 21 38 | 4 36 | 6 4 | 1 18 | 23 47 | 2 16 | 19 5 | 0 59 | 17 27 | 0 45 | 7 5 | 2 48 | 3 32 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 12 | 21 11 | 0 13 | 1 28 | 3 42 |
| T 18 | 9 40 | 24 16 | 4 4 | 6 47 | 1 12 | 24 1 | 2 18 | 19 5 | 0 56 | 17 30 | 0 44 | 7 3 | 2 48 | 3 33 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 13 | 21 12 | 0 16 | 1 26 | 3 41 |
| F 19 | 10 2 | 25 43 | 3 19 | 7 31 | 1 6 | 24 15 | 2 21 | 19 5 | 0 54 | 17 34 | 0 44 | 7 1 | 2 48 | 3 33 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 15 | 21 13 | 0 19 | 1 25 | 3 41 |
| S 20 | 10 23 | 25 49 | 2 24 | 8 14 | 1 0 | 24 28 | 2 24 | 19 6 | 0 51 | 17 37 | 0 44 | 7 0 | 2 48 | 3 34 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 16 | 21 13 | 0 22 | 1 24 | 3 41 |
| S 21 | 10 45 | 24 31 | 1 20 | 8 57 | 0 54 | 24 40 | 2 27 | 19 6 | 0 48 | 17 40 | 0 44 | 6 58 | 2 48 | 3 35 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 16 | 21 14 | 0 25 | 1 23 | 3 41 |
| M22 | 11 6 | 21 48 | 0 11 | 9 39 | 0 48 | 24 52 | 2 29 | 19 6 | 0 45 | 17 44 | 0 44 | 6 56 | 2 48 | 3 35 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 16 | 21 14 | 0 28 | 1 22 | 3 41 |
| T 23 | 11 28 | 17 48 | 1s 1 | 10 21 | 0 41 | 25 3 | 2 32 | 19 6 | 0 42 | 17 47 | 0 44 | 6 54 | 2 48 | 3 36 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 16 | 21 15 | 0 32 | 1 21 | 3 41 |
| W24 | 11 49 | 12 45 | 2 11 | 11 2 | 0 35 | 25 13 | 2 34 | 19 5 | 0 40 | 17 50 | 0 44 | 6 53 | 2 48 | 3 37 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 16 | 21 15 | 0 35 | 1 20 | 3 40 |
| T 25 | 12 9 | 6 53 | 3 14 | 11 43 | 0 28 | 25 23 | 2 36 | 19 5 | 0 37 | 17 54 | 0 44 | 6 51 | 2 48 | 3 37 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 17 | 21 16 | 0 38 | 1 19 | 3 40 |
| F 26 | 12 30 | 0 33 | 4 6 | 12 22 | 0 22 | 25 32 | 2 39 | 19 4 | 0 34 | 17 57 | 0 43 | 6 49 | 2 48 | 3 38 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 18 | 21 16 | 0 41 | 1 18 | 3 40 |
| S 27 | 12 51 | 5s54 | 4 42 | 13 2 | 0 15 | 25 40 | 2 41 | 19 3 | 0 31 | 18 0 | 0 43 | 6 48 | 2 48 | 3 39 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 19 | 21 17 | 0 44 | 1 17 | 3 40 |
| S 28 | 13 11 | 12 3 | 4 59 | 13 40 | 0 8 | 25 48 | 2 43 | 19 2 | 0 28 | 18 4 | 0 43 | 6 46 | 2 47 | 3 39 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 21 | 21 18 | 0 47 | 1 16 | 3 40 |
| M29 | 13 31 | 17 28 | 4 56 | 14 18 | 0 2 | 25 55 | 2 45 | 19 1 | 0 24 | 18 7 | 0 43 | 6 44 | 2 47 | 3 40 | 0 47 | 18 34 | 0 1 | 20 18 | 2 59 | 21 23 | 21 18 | 0 50 | 1 15 | 3 39 |
| T 30 | 13 51 | 21 45 | 4 33 | 14 55 | 0s 5 | 26 1 | 2 47 | 19 0 | 0 21 | 18 10 | 0 43 | 6 43 | 2 47 | 3 40 | 0 47 | 18 33 | 0 1 | 20 18 | 2 59 | 21 25 | 21 19 | 0 53 | 1 14 | 3 39 |
| W31 | 14s10 | 24s36 | 3s53 | 15s32 | 0s12 | 26s 7 | 2s49 | 18n58 | 0s18 | 18s14 | 0n43 | 6n41 | 2s47 | 3s41 | 0s47 | 18s33 | 0s 1 | 20n18 | 2s59 | 21s27 | 21s19 | 0n56 | 1n13 | 3n39 |

Julian Day Number = 2332749.5, Delta T = 26.77 sec
Ecliptic obliquity = 23°28'58, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'01, Lahiri = 19°19'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## NOVEMBER 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 42 12 | 8♏55'10 | 16♐54 | 13♏11 | 24♐21 | 25°R33 | 24♏41 | 23°R47 | 22°R31 | 7♒ 6 | 7°R29 | 23°R18 | 24♑ 6 | 22♓22 | 24°R37 | T 1 |
| F 2 | 2 46 9 | 9°55'25 | 0♑23 | 14°46 | 25°28 | 25♑13 | 24°54 | 23♈43 | 22♓30 | 7° 7 | 7♋28 | 23♑14 | 24° 3 | 22°28 | 24♓36 | F 2 |
| S 3 | 2 50 6 | 10°55'41 | 13°25 | 16°21 | 26°36 | 24°53 | 25° 8 | 23°38 | 22°28 | 7° 7 | 7°28 | 23°12 | 24° 0 | 22°35 | 24°34 | S 3 |
| S 4 | 2 54 2 | 11°55'59 | 26° 2 | 17°55 | 27°43 | 24°32 | 25°21 | 23°34 | 22°27 | 7° 8 | 7°27 | 23°D11 | 23°56 | 22°42 | 24°32 | S 4 |
| M 5 | 2 57 59 | 12°56'19 | 8♒19 | 19°29 | 28°50 | 24°10 | 25°34 | 23°29 | 22°26 | 7° 8 | 7°27 | 23°R12 | 23°53 | 22°49 | 24°31 | M 5 |
| T 6 | 3 1 55 | 13°56'40 | 20°22 | 21° 3 | 29°56 | 23°49 | 25°47 | 23°25 | 22°24 | 7° 9 | 7°26 | 23°11 | 23°50 | 22°55 | 24°29 | T 6 |
| W 7 | 3 5 52 | 14°57'02 | 2♓16 | 22°36 | 1♑ 3 | 23°27 | 26° 0 | 23°21 | 22°23 | 7°10 | 7°25 | 23°10 | 23°47 | 23° 2 | 24°27 | W 7 |
| T 8 | 3 9 48 | 15°57'26 | 14° 6 | 24° 9 | 2° 9 | 23° 5 | 26°14 | 23°16 | 22°22 | 7°10 | 7°25 | 23° 6 | 23°44 | 23° 9 | 24°26 | T 8 |
| F 9 | 3 13 45 | 16°57'51 | 25°57 | 25°42 | 3°16 | 22°43 | 26°27 | 23°12 | 22°21 | 7°11 | 7°24 | 22°59 | 23°40 | 23°15 | 24°25 | F 9 |
| S 10 | 3 17 41 | 17°58'17 | 7♈52 | 27°15 | 4°22 | 22°21 | 26°40 | 23° 8 | 22°20 | 7°12 | 7°23 | 22°50 | 23°37 | 23°22 | 24°23 | S 10 |
| S 11 | 3 21 38 | 18°58'45 | 19°56 | 28°47 | 5°27 | 21°59 | 26°54 | 23° 4 | 22°19 | 7°12 | 7°22 | 22°40 | 23°34 | 23°29 | 24°22 | S 11 |
| M12 | 3 25 35 | 19°59'15 | 2♉ 9 | 0♐19 | 6°33 | 21°37 | 27° 7 | 23° 0 | 22°18 | 7°13 | 7°22 | 22°28 | 23°31 | 23°35 | 24°21 | M12 |
| T 13 | 3 29 31 | 20°59'46 | 14°33 | 1°51 | 7°38 | 21°15 | 27°20 | 22°56 | 22°17 | 7°14 | 7°21 | 22°16 | 23°28 | 23°42 | 24°19 | T 13 |
| W14 | 3 33 28 | 22° 0'19 | 27° 9 | 3°22 | 8°43 | 20°53 | 27°34 | 22°52 | 22°16 | 7°15 | 7°20 | 22° 5 | 23°25 | 23°49 | 24°18 | W14 |
| T 15 | 3 37 24 | 23° 0'53 | 9♊56 | 4°53 | 9°48 | 20°31 | 27°47 | 22°48 | 22°15 | 7°16 | 7°19 | 21°56 | 23°21 | 23°56 | 24°17 | T 15 |
| F 16 | 3 41 21 | 24° 1'28 | 22°54 | 6°24 | 10°53 | 20° 9 | 28° 0 | 22°45 | 22°14 | 7°17 | 7°18 | 21°49 | 23°18 | 24° 2 | 24°16 | F 16 |
| S 17 | 3 45 17 | 25° 2'06 | 6♋ 3 | 7°55 | 11°57 | 19°48 | 28°14 | 22°41 | 22°14 | 7°18 | 7°17 | 21°46 | 23°15 | 24° 9 | 24°15 | S 17 |
| S 18 | 3 49 14 | 26° 2'45 | 19°24 | 9°25 | 13° 1 | 19°27 | 28°27 | 22°37 | 22°13 | 7°19 | 7°17 | 21°D45 | 23°12 | 24°16 | 24°14 | S 18 |
| M19 | 3 53 10 | 27° 3'25 | 2♌55 | 10°56 | 14° 5 | 19° 6 | 28°41 | 22°34 | 22°12 | 7°20 | 7°16 | 21°45 | 23° 9 | 24°22 | 24°13 | M19 |
| T 20 | 3 57 7 | 28° 4'08 | 16°39 | 12°25 | 15° 9 | 18°46 | 28°54 | 22°30 | 22°12 | 7°21 | 7°15 | 21°46 | 23° 6 | 24°29 | 24°12 | T 20 |
| W21 | 4 1 4 | 29° 4'51 | 0♍35 | 13°55 | 16°12 | 18°26 | 29° 8 | 22°27 | 22°11 | 7°22 | 7°14 | 21°R46 | 23° 2 | 24°36 | 24°11 | W21 |
| T 22 | 4 5 0 | 0♐ 5'37 | 14°43 | 15°24 | 17°15 | 18° 7 | 29°21 | 22°24 | 22°11 | 7°23 | 7°13 | 21°45 | 22°59 | 24°43 | 24°10 | T 22 |
| F 23 | 4 8 57 | 1° 6'24 | 29° 3 | 16°53 | 18°18 | 17°48 | 29°34 | 22°20 | 22°10 | 7°24 | 7°12 | 21°42 | 22°56 | 24°49 | 24°10 | F 23 |
| S 24 | 4 12 53 | 2° 7'12 | 13♎31 | 18°21 | 19°20 | 17°30 | 29°48 | 22°17 | 22°10 | 7°25 | 7°11 | 21°37 | 22°53 | 24°56 | 24° 9 | S 24 |
| S 25 | 4 16 50 | 3° 8'02 | 28° 3 | 19°48 | 20°22 | 17°12 | 0♐ 1 | 22°14 | 22°10 | 7°26 | 7°10 | 21°30 | 22°50 | 25° 3 | 24° 9 | S 25 |
| M26 | 4 20 46 | 4° 8'54 | 12♏33 | 21°15 | 21°24 | 16°55 | 0°15 | 22°11 | 22° 9 | 7°28 | 7° 9 | 21°22 | 22°46 | 25° 9 | 24° 8 | M26 |
| T 27 | 4 24 43 | 5° 9'47 | 26°54 | 22°42 | 22°25 | 16°39 | 0°28 | 22° 8 | 22° 9 | 7°29 | 7° 8 | 21°14 | 22°43 | 25°16 | 24° 8 | T 27 |
| W28 | 4 28 39 | 6°10'41 | 11♐ 0 | 24° 7 | 23°26 | 16°23 | 0°42 | 22° 6 | 22° 9 | 7°30 | 7° 7 | 21° 7 | 22°40 | 25°23 | 24° 7 | W28 |
| T 29 | 4 32 36 | 7°11'36 | 24°46 | 25°32 | 24°26 | 16° 8 | 0°55 | 22° 3 | 22° 9 | 7°32 | 7° 6 | 21° 2 | 22°37 | 25°29 | 24° 7 | T 29 |
| F 30 | 4 36 33 | 8♐12'32 | 8♑10 | 26♐55 | 25♑27 | 15♑54 | 1♐ 8 | 22♈ 0 | 22♓ 9 | 7♒33 | 7♋ 5 | 20♑59 | 22♑34 | 25♓36 | 24♓ 6 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s30 | 25s49 | 3s 0 | 16s 7 | 0s19 | 26s12 | 2s50 | 18n57 | 0s15 | 18s17 | 0n43 | 6n40 | 2s47 | 3s42 | 0s47 | 18s33 | 0s 1 | 20n18 | 2s59 | 21s28 | 21s20 | 0n59 | 1n12 | 3n39 |
| F 2 | 14 49 | 25 27 | 1 58 | 16 42 | 0 25 | 26 16 | 2 52 | 18 55 | 0 12 | 18 20 | 0 43 | 6 38 | 2 47 | 3 42 | 0 47 | 18 33 | 0 2 | 20 18 | 2 59 | 21 29 | 21 20 | 1 2 | 1 11 | 3 38 |
| S 3 | 15 8 | 23 40 | 0 52 | 17 16 | 0 32 | 26 20 | 2 54 | 18 53 | 0 9 | 18 23 | 0 43 | 6 36 | 2 47 | 3 43 | 0 47 | 18 33 | 0 2 | 20 18 | 2 59 | 21 29 | 21 21 | 1 5 | 1 11 | 3 38 |
| S 4 | 15 27 | 20 44 | 0n15 | 17 49 | 0 38 | 26 23 | 2 55 | 18 51 | 0 5 | 18 27 | 0 43 | 6 35 | 2 47 | 3 43 | 0 47 | 18 33 | 0 2 | 20 18 | 2 59 | 21 29 | 21 21 | 1 8 | 1 10 | 3 38 |
| M 5 | 15 45 | 16 56 | 1 20 | 18 21 | 0 45 | 26 25 | 2 56 | 18 49 | 0 2 | 18 30 | 0 42 | 6 33 | 2 47 | 3 44 | 0 47 | 18 33 | 0 2 | 20 18 | 2 59 | 21 29 | 21 22 | 1 11 | 1 9 | 3 38 |
| T 6 | 16 3 | 12 31 | 2 19 | 18 52 | 0 51 | 26 26 | 2 58 | 18 47 | 0n 1 | 18 33 | 0 42 | 6 32 | 2 47 | 3 44 | 0 47 | 18 33 | 0 2 | 20 18 | 2 59 | 21 29 | 21 23 | 1 15 | 1 8 | 3 38 |
| W 7 | 16 21 | 7 42 | 3 12 | 19 23 | 0 57 | 26 27 | 2 59 | 18 44 | 0 4 | 18 36 | 0 42 | 6 30 | 2 46 | 3 44 | 0 47 | 18 32 | 0 2 | 20 18 | 2 59 | 21 29 | 21 23 | 1 18 | 1 7 | 3 37 |
| T 8 | 16 39 | 2 38 | 3 56 | 19 52 | 1 3 | 26 27 | 3 0 | 18 42 | 0 7 | 18 40 | 0 42 | 6 29 | 2 46 | 3 45 | 0 47 | 18 32 | 0 2 | 20 18 | 2 59 | 21 30 | 21 24 | 1 21 | 1 6 | 3 37 |
| F 9 | 16 56 | 2n31 | 4 30 | 20 21 | 1 9 | 26 27 | 3 0 | 18 39 | 0 11 | 18 43 | 0 42 | 6 28 | 2 46 | 3 45 | 0 47 | 18 32 | 0 2 | 20 18 | 2 59 | 21 31 | 21 24 | 1 24 | 1 6 | 3 37 |
| S 10 | 17 13 | 7 36 | 4 53 | 20 48 | 1 15 | 26 26 | 3 1 | 18 37 | 0 14 | 18 46 | 0 42 | 6 26 | 2 46 | 3 46 | 0 47 | 18 32 | 0 2 | 20 18 | 2 59 | 21 33 | 21 25 | 1 27 | 1 5 | 3 37 |
| S 11 | 17 30 | 12 28 | 5 2 | 21 14 | 1 21 | 26 24 | 3 2 | 18 34 | 0 17 | 18 49 | 0 42 | 6 25 | 2 46 | 3 46 | 0 47 | 18 32 | 0 2 | 20 18 | 2 59 | 21 34 | 21 25 | 1 30 | 1 4 | 3 36 |
| M12 | 17 46 | 16 54 | 4 59 | 21 40 | 1 27 | 26 21 | 3 2 | 18 31 | 0 20 | 18 52 | 0 42 | 6 24 | 2 46 | 3 46 | 0 46 | 18 32 | 0 2 | 20 18 | 2 59 | 21 36 | 21 26 | 1 33 | 1 3 | 3 36 |
| T 13 | 18 2 | 20 42 | 4 41 | 22 4 | 1 32 | 26 18 | 3 3 | 18 29 | 0 23 | 18 55 | 0 42 | 6 22 | 2 45 | 3 47 | 0 46 | 18 31 | 0 2 | 20 18 | 2 59 | 21 38 | 21 26 | 1 36 | 1 3 | 3 36 |
| W14 | 18 18 | 23 35 | 4 9 | 22 27 | 1 37 | 26 14 | 3 3 | 18 26 | 0 26 | 18 58 | 0 42 | 6 21 | 2 45 | 3 47 | 0 46 | 18 31 | 0 2 | 20 18 | 2 59 | 21 40 | 21 27 | 1 39 | 1 2 | 3 36 |
| T 15 | 18 34 | 25 20 | 3 24 | 22 50 | 1 42 | 26 9 | 3 3 | 18 23 | 0 29 | 19 2 | 0 42 | 6 20 | 2 45 | 3 47 | 0 46 | 18 31 | 0 2 | 20 18 | 2 59 | 21 42 | 21 27 | 1 42 | 1 1 | 3 35 |
| F 16 | 18 49 | 25 45 | 2 28 | 23 11 | 1 47 | 26 4 | 3 3 | 18 20 | 0 32 | 19 5 | 0 42 | 6 19 | 2 45 | 3 48 | 0 46 | 18 31 | 0 2 | 20 18 | 2 59 | 21 43 | 21 28 | 1 45 | 1 1 | 3 35 |
| S 17 | 19 4 | 24 44 | 1 23 | 23 30 | 1 52 | 25 58 | 3 3 | 18 17 | 0 35 | 19 8 | 0 41 | 6 17 | 2 45 | 3 48 | 0 46 | 18 30 | 0 2 | 20 19 | 2 59 | 21 43 | 21 29 | 1 48 | 1 0 | 3 35 |
| S 18 | 19 18 | 22 17 | 0 13 | 23 49 | 1 56 | 25 52 | 3 2 | 18 14 | 0 38 | 19 11 | 0 41 | 6 16 | 2 45 | 3 48 | 0 46 | 18 30 | 0 2 | 20 19 | 2 59 | 21 43 | 21 29 | 1 51 | 0 59 | 3 35 |
| M19 | 19 32 | 18 34 | 1s 0 | 24 6 | 2 0 | 25 45 | 3 2 | 18 11 | 0 41 | 19 14 | 0 41 | 6 15 | 2 44 | 3 48 | 0 46 | 18 30 | 0 2 | 20 19 | 2 59 | 21 43 | 21 30 | 1 54 | 0 59 | 3 34 |
| T 20 | 19 46 | 13 49 | 2 10 | 24 22 | 2 4 | 25 37 | 3 1 | 18 9 | 0 44 | 19 17 | 0 41 | 6 14 | 2 44 | 3 48 | 0 46 | 18 30 | 0 2 | 20 19 | 2 59 | 21 43 | 21 30 | 1 57 | 0 58 | 3 34 |
| W21 | 19 59 | 8 17 | 3 13 | 24 37 | 2 8 | 25 29 | 3 0 | 18 6 | 0 47 | 19 20 | 0 41 | 6 13 | 2 44 | 3 49 | 0 46 | 18 29 | 0 2 | 20 19 | 2 59 | 21 43 | 21 31 | 2 0 | 0 58 | 3 34 |
| T 22 | 20 12 | 2 15 | 4 6 | 24 51 | 2 11 | 25 20 | 2 59 | 18 3 | 0 49 | 19 23 | 0 41 | 6 12 | 2 44 | 3 49 | 0 46 | 18 29 | 0 2 | 20 19 | 2 59 | 21 43 | 21 31 | 2 3 | 0 57 | 3 34 |
| F 23 | 20 25 | 3s57 | 4 44 | 25 3 | 2 14 | 25 10 | 2 58 | 18 0 | 0 52 | 19 26 | 0 41 | 6 11 | 2 44 | 3 49 | 0 46 | 18 29 | 0 2 | 20 19 | 2 59 | 21 44 | 21 32 | 2 6 | 0 57 | 3 33 |
| S 24 | 20 37 | 10 0 | 5 4 | 25 14 | 2 16 | 25 0 | 2 57 | 17 58 | 0 55 | 19 29 | 0 41 | 6 10 | 2 43 | 3 49 | 0 46 | 18 29 | 0 2 | 20 19 | 2 59 | 21 45 | 21 32 | 2 9 | 0 56 | 3 33 |
| S 25 | 20 49 | 15 32 | 5 5 | 25 24 | 2 19 | 24 49 | 2 55 | 17 55 | 0 57 | 19 32 | 0 41 | 6 9 | 2 43 | 3 49 | 0 46 | 18 28 | 0 2 | 20 19 | 2 59 | 21 46 | 21 33 | 2 12 | 0 56 | 3 33 |
| M26 | 21 1 | 20 10 | 4 47 | 25 32 | 2 20 | 24 38 | 2 54 | 17 53 | 1 0 | 19 34 | 0 41 | 6 8 | 2 43 | 3 49 | 0 46 | 18 28 | 0 2 | 20 19 | 2 58 | 21 47 | 21 33 | 2 15 | 0 55 | 3 33 |
| T 27 | 21 12 | 23 33 | 4 10 | 25 38 | 2 22 | 24 26 | 2 52 | 17 50 | 1 2 | 19 37 | 0 41 | 6 7 | 2 43 | 3 49 | 0 46 | 18 28 | 0 2 | 20 19 | 2 58 | 21 48 | 21 34 | 2 19 | 0 55 | 3 32 |
| W28 | 21 23 | 25 25 | 3 19 | 25 44 | 2 23 | 24 14 | 2 50 | 17 48 | 1 5 | 19 40 | 0 41 | 6 6 | 2 42 | 3 49 | 0 46 | 18 27 | 0 2 | 20 19 | 2 58 | 21 49 | 21 34 | 2 22 | 0 54 | 3 32 |
| T 29 | 21 33 | 25 40 | 2 17 | 25 47 | 2 23 | 24 1 | 2 48 | 17 46 | 1 7 | 19 43 | 0 41 | 6 6 | 2 42 | 3 49 | 0 46 | 18 27 | 0 2 | 20 19 | 2 58 | 21 50 | 21 35 | 2 25 | 0 54 | 3 32 |
| F 30 | 21s43 | 24s23 | 1s 9 | 25s50 | 2s23 | 23s48 | 2s45 | 17n44 | 1n 9 | 19s46 | 0n41 | 6n 5 | 2s42 | 3s49 | 0s46 | 18s27 | 0s 2 | 20n19 | 2s58 | 21s50 | 21s35 | 2n28 | 0n54 | 3n32 |

Julian Day Number = 2332780.5, Delta T = 26.71 sec
Ecliptic obliquity = 23°28'57, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'05, Lahiri = 19°19'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1674
# geocentric

## DECEMBER 1674 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 40 29 | 9♐13'30 | 21♑11 | 28♐17 | 26♑26 | 15°R40 | 1♐22 | 21°R58 | 22°D 9 | 7♒34 | 7°R 4 | 20°D59 | 22♑31 | 25♓43 | 24°R 6 | S 1 |
| S 2 | 4 44 26 | 10°14'27 | 3♒50 | 29°38 | 27°26 | 15♉28 | 1°35 | 21♈55 | 22♓ 9 | 7°36 | 7♋ 3 | 20♑59 | 22°27 | 25°50 | 24♓ 6 | S 2 |
| M 3 | 4 48 22 | 11°15'26 | 16°10 | 0♑56 | 28°24 | 15°16 | 1°48 | 21°53 | 22° 9 | 7°37 | 7° 2 | 21° 1 | 22°24 | 25°56 | 24° 6 | M 3 |
| T 4 | 4 52 19 | 12°16'25 | 28°16 | 2°13 | 29°23 | 15° 5 | 2° 2 | 21°51 | 22° 9 | 7°39 | 7° 1 | 21° 3 | 22°21 | 26° 3 | 24° 6 | T 4 |
| W 5 | 4 56 15 | 13°17'25 | 10♓12 | 3°28 | 0♒21 | 14°54 | 2°15 | 21°49 | 22° 9 | 7°40 | 6°59 | 21°R 3 | 22°18 | 26°10 | 24°D 6 | W 5 |
| T 6 | 5 0 12 | 14°18'25 | 22° 3 | 4°39 | 1°18 | 14°45 | 2°28 | 21°47 | 22° 9 | 7°42 | 6°58 | 21° 3 | 22°15 | 26°16 | 24° 6 | T 6 |
| F 7 | 5 4 8 | 15°19'26 | 3♈55 | 5°48 | 2°15 | 14°36 | 2°42 | 21°45 | 22°10 | 7°43 | 6°57 | 21° 1 | 22°12 | 26°23 | 24° 6 | F 7 |
| S 8 | 5 8 5 | 16°20'28 | 15°52 | 6°52 | 3°11 | 14°28 | 2°55 | 21°43 | 22°10 | 7°45 | 6°56 | 20°58 | 22° 8 | 26°30 | 24° 6 | S 8 |
| S 9 | 5 12 2 | 17°21'30 | 27°59 | 7°53 | 4° 7 | 14°21 | 3° 8 | 21°42 | 22°10 | 7°46 | 6°55 | 20°53 | 22° 5 | 26°37 | 24° 6 | S 9 |
| M10 | 5 15 58 | 18°22'33 | 10♉18 | 8°48 | 5° 2 | 14°15 | 3°22 | 21°40 | 22°11 | 7°48 | 6°54 | 20°47 | 22° 2 | 26°43 | 24° 6 | M10 |
| T 11 | 5 19 55 | 19°23'36 | 22°52 | 9°38 | 5°56 | 14°10 | 3°35 | 21°39 | 22°11 | 7°50 | 6°53 | 20°41 | 21°59 | 26°50 | 24° 7 | T 11 |
| W12 | 5 23 51 | 20°24'40 | 5♊42 | 10°22 | 6°50 | 14° 5 | 3°48 | 21°37 | 22°12 | 7°51 | 6°51 | 20°36 | 21°56 | 26°57 | 24° 7 | W12 |
| T 13 | 5 27 48 | 21°25'44 | 18°48 | 10°58 | 7°43 | 14° 1 | 4° 1 | 21°36 | 22°12 | 7°53 | 6°50 | 20°32 | 21°52 | 27° 3 | 24° 8 | T 13 |
| F 14 | 5 31 44 | 22°26'49 | 2♋ 9 | 11°26 | 8°35 | 13°59 | 4°14 | 21°35 | 22°13 | 7°55 | 6°49 | 20°29 | 21°49 | 27°10 | 24° 8 | F 14 |
| S 15 | 5 35 41 | 23°27'55 | 15°44 | 11°45 | 9°27 | 13°57 | 4°27 | 21°34 | 22°14 | 7°56 | 6°48 | 20°D28 | 21°46 | 27°17 | 24° 9 | S 15 |
| S 16 | 5 39 38 | 24°29'01 | 29°29 | 11°R55 | 10°18 | 13°55 | 4°40 | 21°33 | 22°14 | 7°58 | 6°47 | 20°28 | 21°43 | 27°24 | 24° 9 | S 16 |
| M17 | 5 43 34 | 25°30'08 | 13♌24 | 11°53 | 11° 8 | 13°D55 | 4°53 | 21°32 | 22°15 | 8° 0 | 6°45 | 20°29 | 21°40 | 27°30 | 24°10 | M17 |
| T 18 | 5 47 31 | 26°31'15 | 27°26 | 11°41 | 11°57 | 13°55 | 5° 6 | 21°31 | 22°16 | 8° 2 | 6°44 | 20°31 | 21°37 | 27°37 | 24°11 | T 18 |
| W19 | 5 51 27 | 27°32'23 | 11♍32 | 11°16 | 12°46 | 13°56 | 5°19 | 21°31 | 22°17 | 8° 4 | 6°43 | 20°32 | 21°33 | 27°44 | 24°11 | W19 |
| T 20 | 5 55 24 | 28°33'32 | 25°42 | 10°40 | 13°33 | 13°58 | 5°32 | 21°30 | 22°18 | 8° 5 | 6°42 | 20°R33 | 21°30 | 27°50 | 24°12 | T 20 |
| F 21 | 5 59 20 | 29°34'41 | 9♎53 | 9°52 | 14°20 | 14° 0 | 5°45 | 21°30 | 22°19 | 8° 7 | 6°40 | 20°33 | 21°27 | 27°57 | 24°13 | F 21 |
| S 22 | 6 3 17 | 0♑35'51 | 24° 2 | 8°54 | 15° 6 | 14° 4 | 5°58 | 21°30 | 22°20 | 8° 9 | 6°39 | 20°31 | 21°24 | 28° 4 | 24°14 | S 22 |
| S 23 | 6 7 13 | 1°37'02 | 8♏ 8 | 7°47 | 15°50 | 14° 8 | 6°11 | 21°29 | 22°21 | 8°11 | 6°38 | 20°29 | 21°21 | 28°11 | 24°15 | S 23 |
| M24 | 6 11 10 | 2°38'13 | 22° 9 | 6°32 | 16°34 | 14°13 | 6°24 | 21°D29 | 22°22 | 8°13 | 6°37 | 20°27 | 21°18 | 28°17 | 24°16 | M24 |
| T 25 | 6 15 7 | 3°39'24 | 6♐ 0 | 5°13 | 17°17 | 14°18 | 6°36 | 21°29 | 22°23 | 8°15 | 6°36 | 20°24 | 21°14 | 28°24 | 24°17 | T 25 |
| W26 | 6 19 3 | 4°40'36 | 19°39 | 3°51 | 17°58 | 14°24 | 6°49 | 21°30 | 22°25 | 8°17 | 6°34 | 20°22 | 21°11 | 28°31 | 24°18 | W26 |
| T 27 | 6 23 0 | 5°41'48 | 3♑ 3 | 2°30 | 18°38 | 14°31 | 7° 2 | 21°30 | 22°26 | 8°19 | 6°33 | 20°21 | 21° 8 | 28°37 | 24°20 | T 27 |
| F 28 | 6 26 56 | 6°43'00 | 16°11 | 1°12 | 19°17 | 14°39 | 7°14 | 21°30 | 22°27 | 8°21 | 6°32 | 20°D20 | 21° 5 | 28°44 | 24°21 | F 28 |
| S 29 | 6 30 53 | 7°44'12 | 29° 1 | 29♐59 | 19°55 | 14°47 | 7°27 | 21°31 | 22°29 | 8°23 | 6°31 | 20°20 | 21° 2 | 28°51 | 24°22 | S 29 |
| S 30 | 6 34 49 | 8°45'24 | 11♒35 | 28°54 | 20°31 | 14°56 | 7°39 | 21°31 | 22°30 | 8°25 | 6°29 | 20°21 | 20°58 | 28°58 | 24°24 | S 30 |
| M31 | 6 38 46 | 9♑46'35 | 23♒54 | 27♐57 | 21♒ 7 | 15♉ 6 | 7♐52 | 21♈32 | 22♓31 | 8♒27 | 6♋28 | 20♑22 | 20♑55 | 29♓ 4 | 24♓25 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s52 | 21s48 | 0n 1 | 25s50 | 2s22 | 23s34 | 2s43 | 17n42 | 1n12 | 19s49 | 0n41 | 6n 4 | 2s42 | 3s49 | 0s46 | 18s26 | 0s 2 | 20n19 | 2s58 | 21s51 | 21s36 | 2n31 | 0n53 | 3n31 |
| S 2 | 22 1 | 18 13 | 1 9 | 25 50 | 2 21 | 23 20 | 2 40 | 17 40 | 1 14 | 19 51 | 0 40 | 6 4 | 2 41 | 3 49 | 0 46 | 18 26 | 0 2 | 20 20 | 2 58 | 21 50 | 21 36 | 2 34 | 0 53 | 3 31 |
| M 3 | 22 10 | 13 55 | 2 13 | 25 48 | 2 19 | 23 5 | 2 37 | 17 39 | 1 16 | 19 54 | 0 40 | 6 3 | 2 41 | 3 49 | 0 46 | 18 26 | 0 2 | 20 20 | 2 58 | 21 50 | 21 37 | 2 37 | 0 53 | 3 31 |
| T 4 | 22 18 | 9 9 | 3 9 | 25 44 | 2 16 | 22 49 | 2 34 | 17 38 | 1 18 | 19 57 | 0 40 | 6 2 | 2 41 | 3 49 | 0 46 | 18 25 | 0 2 | 20 20 | 2 58 | 21 50 | 21 38 | 2 40 | 0 52 | 3 30 |
| W 5 | 22 26 | 4 7 | 3 56 | 25 39 | 2 13 | 22 34 | 2 31 | 17 36 | 1 20 | 19 59 | 0 40 | 6 2 | 2 41 | 3 49 | 0 46 | 18 25 | 0 2 | 20 20 | 2 58 | 21 50 | 21 38 | 2 43 | 0 52 | 3 30 |
| T 6 | 22 33 | 1n 1 | 4 33 | 25 33 | 2 9 | 22 18 | 2 27 | 17 35 | 1 22 | 20 2 | 0 40 | 6 1 | 2 40 | 3 49 | 0 46 | 18 25 | 0 2 | 20 20 | 2 58 | 21 50 | 21 39 | 2 46 | 0 52 | 3 30 |
| F 7 | 22 40 | 6 7 | 4 58 | 25 25 | 2 4 | 22 1 | 2 23 | 17 34 | 1 23 | 20 5 | 0 40 | 6 1 | 2 40 | 3 49 | 0 45 | 18 24 | 0 2 | 20 20 | 2 58 | 21 50 | 21 39 | 2 49 | 0 52 | 3 30 |
| S 8 | 22 47 | 11 1 | 5 10 | 25 16 | 1 58 | 21 44 | 2 19 | 17 34 | 1 25 | 20 7 | 0 40 | 6 0 | 2 40 | 3 49 | 0 45 | 18 24 | 0 2 | 20 20 | 2 58 | 21 51 | 21 40 | 2 52 | 0 51 | 3 29 |
| S 9 | 22 53 | 15 35 | 5 9 | 25 5 | 1 51 | 21 27 | 2 15 | 17 33 | 1 27 | 20 10 | 0 40 | 6 0 | 2 40 | 3 48 | 0 45 | 18 23 | 0 2 | 20 20 | 2 58 | 21 51 | 21 40 | 2 55 | 0 51 | 3 29 |
| M10 | 22 58 | 19 34 | 4 54 | 24 54 | 1 42 | 21 10 | 2 11 | 17 33 | 1 28 | 20 13 | 0 40 | 6 0 | 2 39 | 3 48 | 0 45 | 18 23 | 0 2 | 20 20 | 2 58 | 21 52 | 21 41 | 2 58 | 0 51 | 3 29 |
| T 11 | 23 3 | 22 46 | 4 24 | 24 41 | 1 33 | 20 52 | 2 6 | 17 33 | 1 30 | 20 15 | 0 40 | 5 59 | 2 39 | 3 48 | 0 45 | 18 23 | 0 2 | 20 20 | 2 58 | 21 53 | 21 41 | 3 1 | 0 51 | 3 29 |
| W12 | 23 8 | 24 55 | 3 41 | 24 27 | 1 23 | 20 33 | 2 1 | 17 33 | 1 32 | 20 18 | 0 40 | 5 59 | 2 39 | 3 48 | 0 45 | 18 22 | 0 2 | 20 20 | 2 58 | 21 54 | 21 42 | 3 4 | 0 51 | 3 28 |
| T 13 | 23 12 | 25 45 | 2 45 | 24 13 | 1 11 | 20 15 | 1 56 | 17 33 | 1 33 | 20 20 | 0 40 | 5 59 | 2 39 | 3 47 | 0 45 | 18 22 | 0 2 | 20 21 | 2 58 | 21 55 | 21 42 | 3 7 | 0 51 | 3 28 |
| F 14 | 23 16 | 25 7 | 1 39 | 23 57 | 0 58 | 19 56 | 1 51 | 17 34 | 1 34 | 20 23 | 0 40 | 5 59 | 2 38 | 3 47 | 0 45 | 18 21 | 0 2 | 20 21 | 2 58 | 21 55 | 21 43 | 3 10 | 0 51 | 3 28 |
| S 15 | 23 19 | 22 59 | 0 26 | 23 42 | 0 44 | 19 37 | 1 46 | 17 34 | 1 36 | 20 25 | 0 40 | 5 59 | 2 38 | 3 47 | 0 45 | 18 21 | 0 2 | 20 21 | 2 58 | 21 55 | 21 43 | 3 13 | 0 51 | 3 28 |
| S 16 | 23 22 | 19 29 | 0s49 | 23 25 | 0 29 | 19 18 | 1 40 | 17 35 | 1 37 | 20 28 | 0 40 | 5 59 | 2 38 | 3 47 | 0 45 | 18 20 | 0 2 | 20 21 | 2 58 | 21 55 | 21 44 | 3 16 | 0 51 | 3 27 |
| M17 | 23 24 | 14 52 | 2 3 | 23 9 | 0 12 | 18 58 | 1 34 | 17 36 | 1 38 | 20 30 | 0 40 | 5 59 | 2 37 | 3 46 | 0 45 | 18 20 | 0 2 | 20 21 | 2 58 | 21 55 | 21 44 | 3 19 | 0 51 | 3 27 |
| T 18 | 23 26 | 9 25 | 3 9 | 22 52 | 0n 6 | 18 38 | 1 28 | 17 38 | 1 39 | 20 32 | 0 40 | 5 59 | 2 37 | 3 46 | 0 45 | 18 19 | 0 2 | 20 21 | 2 58 | 21 55 | 21 45 | 3 22 | 0 51 | 3 27 |
| W19 | 23 28 | 3 28 | 4 5 | 22 36 | 0 25 | 18 18 | 1 21 | 17 39 | 1 41 | 20 35 | 0 40 | 5 59 | 2 37 | 3 45 | 0 45 | 18 19 | 0 2 | 20 21 | 2 58 | 21 55 | 21 45 | 3 25 | 0 51 | 3 27 |
| T 20 | 23 28 | 2s40 | 4 46 | 22 19 | 0 44 | 17 58 | 1 14 | 17 41 | 1 42 | 20 37 | 0 40 | 5 59 | 2 37 | 3 45 | 0 45 | 18 19 | 0 2 | 20 21 | 2 58 | 21 54 | 21 46 | 3 28 | 0 51 | 3 26 |
| F 21 | 23 29 | 8 39 | 5 10 | 22 3 | 1 4 | 17 38 | 1 7 | 17 42 | 1 43 | 20 39 | 0 40 | 5 59 | 2 36 | 3 45 | 0 45 | 18 18 | 0 2 | 20 21 | 2 58 | 21 55 | 21 46 | 3 31 | 0 51 | 3 26 |
| S 22 | 23 29 | 14 12 | 5 14 | 21 48 | 1 24 | 17 18 | 1 0 | 17 44 | 1 44 | 20 42 | 0 40 | 5 59 | 2 36 | 3 44 | 0 45 | 18 18 | 0 2 | 20 21 | 2 58 | 21 55 | 21 47 | 3 34 | 0 51 | 3 26 |
| S 23 | 23 28 | 18 59 | 5 0 | 21 32 | 1 43 | 16 57 | 0 53 | 17 46 | 1 45 | 20 44 | 0 40 | 5 59 | 2 36 | 3 44 | 0 45 | 18 17 | 0 2 | 20 22 | 2 58 | 21 55 | 21 47 | 3 37 | 0 51 | 3 25 |
| M24 | 23 27 | 22 39 | 4 28 | 21 18 | 2 1 | 16 37 | 0 45 | 17 49 | 1 46 | 20 46 | 0 39 | 5 59 | 2 35 | 3 43 | 0 45 | 18 17 | 0 2 | 20 22 | 2 58 | 21 55 | 21 48 | 3 40 | 0 52 | 3 25 |
| T 25 | 23 26 | 24 58 | 3 41 | 21 5 | 2 18 | 16 16 | 0 37 | 17 51 | 1 46 | 20 48 | 0 39 | 6 0 | 2 35 | 3 43 | 0 45 | 18 16 | 0 2 | 20 22 | 2 57 | 21 56 | 21 48 | 3 43 | 0 52 | 3 25 |
| W26 | 23 24 | 25 46 | 2 42 | 20 52 | 2 33 | 15 55 | 0 28 | 17 54 | 1 47 | 20 50 | 0 39 | 6 0 | 2 35 | 3 42 | 0 45 | 18 16 | 0 2 | 20 22 | 2 57 | 21 56 | 21 49 | 3 46 | 0 52 | 3 25 |
| T 27 | 23 22 | 25 1 | 1 34 | 20 41 | 2 47 | 15 35 | 0 20 | 17 57 | 1 48 | 20 53 | 0 39 | 6 0 | 2 35 | 3 42 | 0 45 | 18 15 | 0 2 | 20 22 | 2 57 | 21 56 | 21 49 | 3 49 | 0 52 | 3 24 |
| F 28 | 23 19 | 22 53 | 0 23 | 20 31 | 2 57 | 15 14 | 0 11 | 18 0 | 1 49 | 20 55 | 0 39 | 6 1 | 2 34 | 3 41 | 0 45 | 18 15 | 0 2 | 20 22 | 2 57 | 21 56 | 21 50 | 3 52 | 0 53 | 3 24 |
| S 29 | 23 15 | 19 37 | 0n48 | 20 24 | 3 5 | 14 53 | 0 1 | 18 3 | 1 50 | 20 57 | 0 39 | 6 1 | 2 34 | 3 40 | 0 45 | 18 14 | 0 2 | 20 22 | 2 57 | 21 56 | 21 50 | 3 55 | 0 53 | 3 24 |
| S 30 | 23 12 | 15 30 | 1 55 | 20 18 | 3 11 | 14 33 | 0n 8 | 18 6 | 1 50 | 20 59 | 0 39 | 6 2 | 2 34 | 3 40 | 0 45 | 18 14 | 0 2 | 20 22 | 2 57 | 21 56 | 21 51 | 3 58 | 0 53 | 3 24 |
| M31 | 23s 7 | 10s49 | 2n55 | 20s14 | 3n14 | 14s12 | 0n18 | 18n 9 | 1n51 | 21s 1 | 0n39 | 6n 2 | 2s33 | 3s39 | 0s45 | 18s13 | 0s 2 | 20n23 | 2s57 | 21s56 | 21s51 | 4n 1 | 0n53 | 3n23 |

Julian Day Number = 2332810.5, Delta T = 26.66 sec
Ecliptic obliquity = 23°28'57, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'09, Lahiri = 19°19'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## JANUARY 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 42 42 | 10♉47'46 | 6♓ 0 | 27°R10 | 21♒40 | 15♉16 | 8♐ 4 | 21♈33 | 22♓33 | 8♒29 | 6°R27 | 20♉23 | 20♉52 | 29♓11 | 24♓27 | T 1 |
| W 2 | 6 46 39 | 11°48'57 | 17°58 | 26♐32 | 22°12 | 15°27 | 8°16 | 21°34 | 22°35 | 8°31 | 6♋26 | 20°24 | 20°49 | 29°18 | 24°28 | W 2 |
| T 3 | 6 50 36 | 12°50'08 | 29°50 | 26° 5 | 22°43 | 15°38 | 8°29 | 21°35 | 22°36 | 8°33 | 6°24 | 20°24 | 20°46 | 29°24 | 24°30 | T 3 |
| F 4 | 6 54 32 | 13°51'17 | 11♈42 | 25°48 | 23°12 | 15°50 | 8°41 | 21°36 | 22°38 | 8°35 | 6°23 | 20°R25 | 20°43 | 29°31 | 24°31 | F 4 |
| S 5 | 6 58 29 | 14°52'27 | 23°38 | 25°D40 | 23°39 | 16° 3 | 8°53 | 21°38 | 22°40 | 8°37 | 6°22 | 20°25 | 20°39 | 29°38 | 24°33 | S 5 |
| S 6 | 7 2 25 | 15°53'36 | 5♉44 | 25°41 | 24° 4 | 16°16 | 9° 5 | 21°39 | 22°41 | 8°40 | 6°21 | 20°24 | 20°36 | 29°45 | 24°35 | S 6 |
| M 7 | 7 6 22 | 16°54'44 | 18° 3 | 25°51 | 24°28 | 16°30 | 9°17 | 21°41 | 22°43 | 8°42 | 6°19 | 20°24 | 20°33 | 29°51 | 24°37 | M 7 |
| T 8 | 7 10 18 | 17°55'52 | 0♊40 | 26° 8 | 24°50 | 16°44 | 9°29 | 21°42 | 22°45 | 8°44 | 6°18 | 20°23 | 20°30 | 29°58 | 24°38 | T 8 |
| W 9 | 7 14 15 | 18°56'59 | 13°36 | 26°32 | 25°10 | 16°59 | 9°41 | 21°44 | 22°47 | 8°46 | 6°17 | 20°23 | 20°27 | 0♈ 5 | 24°40 | W 9 |
| T 10 | 7 18 11 | 19°58'06 | 26°54 | 27° 2 | 25°27 | 17°14 | 9°53 | 21°46 | 22°49 | 8°48 | 6°16 | 20°D23 | 20°24 | 0°11 | 24°42 | T 10 |
| F 11 | 7 22 8 | 20°59'12 | 10♋33 | 27°39 | 25°43 | 17°30 | 10° 5 | 21°48 | 22°51 | 8°50 | 6°15 | 20°23 | 20°20 | 0°18 | 24°44 | F 11 |
| S 12 | 7 26 5 | 22° 0'17 | 24°31 | 28°20 | 25°57 | 17°46 | 10°16 | 21°50 | 22°53 | 8°53 | 6°13 | 20°R23 | 20°17 | 0°25 | 24°46 | S 12 |
| S 13 | 7 30 1 | 23° 1'22 | 8♌46 | 29° 6 | 26° 8 | 18° 3 | 10°28 | 21°52 | 22°55 | 8°55 | 6°12 | 20°23 | 20°14 | 0°32 | 24°48 | S 13 |
| M14 | 7 33 58 | 24° 2'26 | 23°11 | 29°56 | 26°17 | 18°20 | 10°39 | 21°54 | 22°57 | 8°57 | 6°11 | 20°23 | 20°11 | 0°38 | 24°51 | M14 |
| T 15 | 7 37 54 | 25° 3'30 | 7♍41 | 0♉50 | 26°24 | 18°38 | 10°51 | 21°57 | 22°59 | 8°59 | 6°10 | 20°22 | 20° 8 | 0°45 | 24°53 | T 15 |
| W16 | 7 41 51 | 26° 4'34 | 22°11 | 1°48 | 26°28 | 18°56 | 11° 2 | 21°59 | 23° 1 | 9° 1 | 6° 9 | 20°22 | 20° 4 | 0°52 | 24°55 | W16 |
| T 17 | 7 45 47 | 27° 5'36 | 6♎37 | 2°48 | 26°R30 | 19°14 | 11°14 | 22° 2 | 23° 4 | 9° 4 | 6° 8 | 20°21 | 20° 1 | 0°58 | 24°57 | T 17 |
| F 18 | 7 49 44 | 28° 6'39 | 20°53 | 3°51 | 26°29 | 19°33 | 11°25 | 22° 4 | 23° 6 | 9° 6 | 6° 6 | 20°21 | 19°58 | 1° 5 | 24°59 | F 18 |
| S 19 | 7 53 40 | 29° 7'41 | 4♏58 | 4°57 | 26°27 | 19°53 | 11°36 | 22° 7 | 23° 8 | 9° 8 | 6° 5 | 20°D21 | 19°55 | 1°12 | 25° 2 | S 19 |
| S 20 | 7 57 37 | 0♒ 8'42 | 18°50 | 6° 5 | 26°21 | 20°13 | 11°47 | 22°10 | 23°10 | 9°10 | 6° 4 | 20°21 | 19°52 | 1°19 | 25° 4 | S 20 |
| M21 | 8 1 34 | 1° 9'44 | 2♐28 | 7°15 | 26°13 | 20°33 | 11°58 | 22°13 | 23°13 | 9°13 | 6° 3 | 20°22 | 19°49 | 1°25 | 25° 7 | M21 |
| T 22 | 8 5 30 | 2°10'44 | 15°53 | 8°27 | 26° 3 | 20°53 | 12° 9 | 22°16 | 23°15 | 9°15 | 6° 2 | 20°23 | 19°45 | 1°32 | 25° 9 | T 22 |
| W23 | 8 9 27 | 3°11'44 | 29° 4 | 9°41 | 25°50 | 21°14 | 12°20 | 22°19 | 23°18 | 9°17 | 6° 1 | 20°24 | 19°42 | 1°39 | 25°12 | W23 |
| T 24 | 8 13 23 | 4°12'43 | 12♑ 3 | 10°56 | 25°34 | 21°35 | 12°30 | 22°23 | 23°20 | 9°19 | 6° 0 | 20°25 | 19°39 | 1°45 | 25°14 | T 24 |
| F 25 | 8 17 20 | 5°13'41 | 24°49 | 12°13 | 25°16 | 21°57 | 12°41 | 22°26 | 23°23 | 9°22 | 5°59 | 20°R25 | 19°36 | 1°52 | 25°17 | F 25 |
| S 26 | 8 21 16 | 6°14'38 | 7♒23 | 13°32 | 24°56 | 22°19 | 12°51 | 22°30 | 23°25 | 9°24 | 5°58 | 20°24 | 19°33 | 1°59 | 25°19 | S 26 |
| S 27 | 8 25 13 | 7°15'34 | 19°46 | 14°51 | 24°33 | 22°41 | 13° 2 | 22°33 | 23°28 | 9°26 | 5°57 | 20°23 | 19°30 | 2° 6 | 25°22 | S 27 |
| M28 | 8 29 10 | 8°16'29 | 1♓57 | 16°12 | 24° 9 | 23° 4 | 13°12 | 22°37 | 23°30 | 9°29 | 5°56 | 20°20 | 19°26 | 2°12 | 25°25 | M28 |
| T 29 | 8 33 6 | 9°17'23 | 14° 0 | 17°34 | 23°42 | 23°27 | 13°22 | 22°41 | 23°33 | 9°31 | 5°55 | 20°17 | 19°23 | 2°19 | 25°28 | T 29 |
| W30 | 8 37 3 | 10°18'15 | 25°57 | 18°57 | 23°13 | 23°50 | 13°33 | 22°44 | 23°36 | 9°33 | 5°54 | 20°14 | 19°20 | 2°26 | 25°30 | W30 |
| T 31 | 8 40 59 | 11♒19'06 | 7♈49 | 20♉21 | 22♒42 | 24♉14 | 13♐43 | 22♈48 | 23♓38 | 9♒35 | 5♋53 | 20♉10 | 19♉17 | 2♈32 | 25♓33 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 3 | 5s48 | 3n47 | 20s12 | 3n15 | 13s52 | 0n28 | 18n13 | 1n51 | 21s 3 | 0n39 | 6n 3 | 2s33 | 3s39 | 0s44 | 18s13 | 0s 2 | 20n23 | 2s57 | 21s56 | 21s52 | 4n 4 | 0n54 | 3n23 |
| W 2 | 22 57 | 0 39 | 4 28 | 20 12 | 3 14 | 13 32 | 0 38 | 18 17 | 1 52 | 21 5 | 0 39 | 6 4 | 2 33 | 3 38 | 0 44 | 18 12 | 0 2 | 20 23 | 2 57 | 21 56 | 21 52 | 4 7 | 0 54 | 3 23 |
| T 3 | 22 52 | 4n28 | 4 57 | 20 14 | 3 12 | 13 12 | 0 49 | 18 21 | 1 53 | 21 7 | 0 39 | 6 4 | 2 33 | 3 37 | 0 44 | 18 11 | 0 2 | 20 23 | 2 57 | 21 56 | 21 53 | 4 10 | 0 55 | 3 23 |
| F 4 | 22 46 | 9 26 | 5 13 | 20 17 | 3 8 | 12 52 | 1 0 | 18 25 | 1 53 | 21 9 | 0 39 | 6 5 | 2 32 | 3 37 | 0 44 | 18 11 | 0 2 | 20 23 | 2 57 | 21 56 | 21 53 | 4 13 | 0 55 | 3 22 |
| S 5 | 22 39 | 14 5 | 5 17 | 20 23 | 3 2 | 12 32 | 1 11 | 18 29 | 1 54 | 21 11 | 0 39 | 6 6 | 2 32 | 3 36 | 0 44 | 18 10 | 0 2 | 20 23 | 2 57 | 21 56 | 21 53 | 4 15 | 0 56 | 3 22 |
| S 6 | 22 32 | 18 15 | 5 6 | 20 29 | 2 56 | 12 13 | 1 23 | 18 33 | 1 54 | 21 12 | 0 39 | 6 7 | 2 32 | 3 35 | 0 44 | 18 10 | 0 2 | 20 23 | 2 57 | 21 56 | 21 54 | 4 18 | 0 56 | 3 22 |
| M 7 | 22 25 | 21 44 | 4 41 | 20 37 | 2 48 | 11 54 | 1 35 | 18 38 | 1 54 | 21 14 | 0 39 | 6 7 | 2 31 | 3 34 | 0 44 | 18 9 | 0 2 | 20 23 | 2 57 | 21 56 | 21 54 | 4 21 | 0 56 | 3 22 |
| T 8 | 22 17 | 24 16 | 4 2 | 20 45 | 2 40 | 11 35 | 1 47 | 18 42 | 1 55 | 21 16 | 0 39 | 6 8 | 2 31 | 3 34 | 0 44 | 18 9 | 0 2 | 20 24 | 2 57 | 21 56 | 21 55 | 4 24 | 0 57 | 3 22 |
| W 9 | 22 8 | 25 37 | 3 10 | 20 55 | 2 32 | 11 17 | 1 59 | 18 47 | 1 55 | 21 18 | 0 39 | 6 9 | 2 31 | 3 33 | 0 44 | 18 8 | 0 2 | 20 24 | 2 56 | 21 56 | 21 55 | 4 27 | 0 58 | 3 21 |
| T 10 | 22 0 | 25 33 | 2 7 | 21 4 | 2 23 | 10 59 | 2 12 | 18 51 | 1 56 | 21 20 | 0 39 | 6 10 | 2 30 | 3 32 | 0 44 | 18 8 | 0 2 | 20 24 | 2 56 | 21 56 | 21 56 | 4 30 | 0 58 | 3 21 |
| F 11 | 21 50 | 23 58 | 0 54 | 21 14 | 2 13 | 10 42 | 2 25 | 18 56 | 1 56 | 21 21 | 0 39 | 6 11 | 2 30 | 3 31 | 0 44 | 18 7 | 0 2 | 20 24 | 2 56 | 21 56 | 21 56 | 4 33 | 0 59 | 3 21 |
| S 12 | 21 41 | 20 53 | 0s23 | 21 24 | 2 4 | 10 25 | 2 38 | 19 1 | 1 56 | 21 23 | 0 39 | 6 12 | 2 30 | 3 30 | 0 44 | 18 6 | 0 2 | 20 24 | 2 56 | 21 56 | 21 57 | 4 36 | 0 59 | 3 21 |
| S 13 | 21 31 | 16 29 | 1 40 | 21 35 | 1 54 | 10 8 | 2 52 | 19 6 | 1 56 | 21 25 | 0 39 | 6 13 | 2 30 | 3 29 | 0 44 | 18 6 | 0 2 | 20 24 | 2 56 | 21 56 | 21 57 | 4 39 | 1 0 | 3 20 |
| M14 | 21 20 | 11 6 | 2 52 | 21 45 | 1 44 | 9 52 | 3 5 | 19 11 | 1 57 | 21 26 | 0 39 | 6 14 | 2 29 | 3 29 | 0 44 | 18 5 | 0 2 | 20 24 | 2 56 | 21 56 | 21 58 | 4 42 | 1 1 | 3 20 |
| T 15 | 21 10 | 5 5 | 3 53 | 21 54 | 1 35 | 9 37 | 3 19 | 19 16 | 1 57 | 21 28 | 0 39 | 6 16 | 2 29 | 3 28 | 0 44 | 18 5 | 0 2 | 20 24 | 2 56 | 21 56 | 21 58 | 4 45 | 1 1 | 3 20 |
| W16 | 20 58 | 1s11 | 4 40 | 22 3 | 1 25 | 9 22 | 3 33 | 19 22 | 1 57 | 21 30 | 0 39 | 6 17 | 2 29 | 3 27 | 0 44 | 18 4 | 0 2 | 20 25 | 2 56 | 21 56 | 21 59 | 4 48 | 1 2 | 3 20 |
| T 17 | 20 47 | 7 20 | 5 8 | 22 12 | 1 15 | 9 8 | 3 48 | 19 27 | 1 57 | 21 31 | 0 39 | 6 18 | 2 28 | 3 26 | 0 44 | 18 4 | 0 2 | 20 25 | 2 56 | 21 56 | 21 59 | 4 51 | 1 3 | 3 19 |
| F 18 | 20 35 | 13 3 | 5 17 | 22 20 | 1 5 | 8 55 | 4 2 | 19 32 | 1 58 | 21 33 | 0 39 | 6 19 | 2 28 | 3 25 | 0 44 | 18 3 | 0 2 | 20 25 | 2 56 | 21 56 | 22 0 | 4 54 | 1 3 | 3 19 |
| S 19 | 20 22 | 18 0 | 5 7 | 22 28 | 0 56 | 8 42 | 4 16 | 19 38 | 1 58 | 21 34 | 0 39 | 6 20 | 2 28 | 3 24 | 0 44 | 18 2 | 0 2 | 20 25 | 2 56 | 21 56 | 22 0 | 4 57 | 1 4 | 3 19 |
| S 20 | 20 9 | 21 55 | 4 39 | 22 34 | 0 46 | 8 30 | 4 31 | 19 43 | 1 58 | 21 36 | 0 39 | 6 22 | 2 28 | 3 23 | 0 44 | 18 2 | 0 2 | 20 25 | 2 56 | 21 56 | 22 1 | 5 0 | 1 5 | 3 19 |
| M21 | 19 56 | 24 32 | 3 55 | 22 40 | 0 37 | 8 19 | 4 46 | 19 49 | 1 58 | 21 37 | 0 39 | 6 23 | 2 27 | 3 22 | 0 44 | 18 1 | 0 2 | 20 25 | 2 56 | 21 56 | 22 1 | 5 3 | 1 5 | 3 19 |
| T 22 | 19 43 | 25 43 | 3 0 | 22 45 | 0 28 | 8 9 | 5 0 | 19 54 | 1 58 | 21 39 | 0 39 | 6 25 | 2 27 | 3 21 | 0 44 | 18 1 | 0 2 | 20 25 | 2 55 | 21 56 | 22 2 | 5 6 | 1 6 | 3 18 |
| W23 | 19 29 | 25 24 | 1 55 | 22 49 | 0 19 | 8 0 | 5 15 | 20 0 | 1 58 | 21 40 | 0 39 | 6 26 | 2 27 | 3 20 | 0 44 | 18 0 | 0 2 | 20 26 | 2 55 | 21 56 | 22 2 | 5 9 | 1 7 | 3 18 |
| T 24 | 19 14 | 23 42 | 0 46 | 22 52 | 0 10 | 7 51 | 5 29 | 20 6 | 1 58 | 21 41 | 0 39 | 6 27 | 2 27 | 3 19 | 0 44 | 17 59 | 0 2 | 20 26 | 2 55 | 21 56 | 22 2 | 5 11 | 1 8 | 3 18 |
| F 25 | 19 0 | 20 48 | 0n24 | 22 54 | 0 2 | 7 44 | 5 43 | 20 12 | 1 58 | 21 43 | 0 39 | 6 29 | 2 26 | 3 18 | 0 44 | 17 59 | 0 2 | 20 26 | 2 55 | 21 56 | 22 3 | 5 14 | 1 9 | 3 18 |
| S 26 | 18 45 | 16 58 | 1 32 | 22 54 | 0s 7 | 7 37 | 5 57 | 20 17 | 1 58 | 21 44 | 0 39 | 6 31 | 2 26 | 3 17 | 0 44 | 17 58 | 0 2 | 20 26 | 2 55 | 21 56 | 22 3 | 5 17 | 1 10 | 3 18 |
| S 27 | 18 29 | 12 28 | 2 35 | 22 54 | 0 15 | 7 31 | 6 11 | 20 23 | 1 58 | 21 45 | 0 39 | 6 32 | 2 26 | 3 16 | 0 44 | 17 58 | 0 2 | 20 26 | 2 55 | 21 56 | 22 4 | 5 20 | 1 11 | 3 17 |
| M28 | 18 14 | 7 32 | 3 30 | 22 53 | 0 23 | 7 27 | 6 25 | 20 29 | 1 58 | 21 47 | 0 39 | 6 34 | 2 25 | 3 15 | 0 44 | 17 57 | 0 2 | 20 26 | 2 55 | 21 56 | 22 4 | 5 23 | 1 11 | 3 17 |
| T 29 | 17 58 | 2 24 | 4 14 | 22 50 | 0 31 | 7 23 | 6 38 | 20 35 | 1 58 | 21 48 | 0 39 | 6 35 | 2 25 | 3 14 | 0 44 | 17 57 | 0 2 | 20 26 | 2 55 | 21 57 | 22 5 | 5 26 | 1 12 | 3 17 |
| W30 | 17 41 | 2n46 | 4 47 | 22 46 | 0 38 | 7 20 | 6 50 | 20 41 | 1 58 | 21 49 | 0 39 | 6 37 | 2 25 | 3 13 | 0 44 | 17 56 | 0 2 | 20 27 | 2 55 | 21 57 | 22 5 | 5 29 | 1 13 | 3 17 |
| T 31 | 17s25 | 7n48 | 5n 7 | 22s41 | 0s45 | 7s19 | 7n 2 | 20n47 | 1n58 | 21s50 | 0n39 | 6n39 | 2s25 | 3s12 | 0s44 | 17s55 | 0s 2 | 20n27 | 2s55 | 21s58 | 22s 6 | 5n32 | 1n14 | 3n17 |

Julian Day Number = 2332841.5, Delta T = 26.61 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'14, Lahiri = 19°19'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## FEBRUARY 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 44 56 | 12♒19'55 | 19♈40 | 21♑47 | 22°R10 | 24♉38 | 13♐52 | 22♈52 | 23♓41 | 9♒38 | 5°R52 | 20°R 8 | 19♑14 | 2♈39 | 25♓36 | F 1 |
| S 2 | 8 48 52 | 13°20'44 | 1♉35 | 23°13 | 21♒36 | 25° 2 | 14° 2 | 22°57 | 23°44 | 9°40 | 5♋51 | 20♑ 6 | 19°10 | 2°46 | 25°39 | S 2 |
| S 3 | 8 52 49 | 14°21'30 | 13°37 | 24°40 | 21° 2 | 25°27 | 14°12 | 23° 1 | 23°47 | 9°42 | 5°50 | 20°D 5 | 19° 7 | 2°53 | 25°42 | S 3 |
| M 4 | 8 56 45 | 15°22'15 | 25°52 | 26° 8 | 20°26 | 25°52 | 14°22 | 23° 5 | 23°50 | 9°45 | 5°49 | 20° 6 | 19° 4 | 2°59 | 25°45 | M 4 |
| T 5 | 9 0 42 | 16°22'59 | 8♊25 | 27°37 | 19°49 | 26°17 | 14°31 | 23°10 | 23°53 | 9°47 | 5°48 | 20° 7 | 19° 1 | 3° 6 | 25°48 | T 5 |
| W 6 | 9 4 39 | 17°23'41 | 21°18 | 29° 7 | 19°12 | 26°42 | 14°40 | 23°14 | 23°55 | 9°49 | 5°47 | 20° 9 | 18°58 | 3°13 | 25°51 | W 6 |
| T 7 | 9 8 35 | 18°24'21 | 4♋37 | 0♒37 | 18°34 | 27° 7 | 14°50 | 23°19 | 23°58 | 9°51 | 5°46 | 20°10 | 18°55 | 3°19 | 25°54 | T 7 |
| F 8 | 9 12 32 | 19°25'00 | 18°22 | 2° 9 | 17°57 | 27°33 | 14°59 | 23°23 | 24° 1 | 9°54 | 5°45 | 20°R11 | 18°51 | 3°26 | 25°57 | F 8 |
| S 9 | 9 16 28 | 20°25'37 | 2♌32 | 3°41 | 17°20 | 27°59 | 15° 8 | 23°28 | 24° 4 | 9°56 | 5°44 | 20°11 | 18°48 | 3°33 | 26° 0 | S 9 |
| S 10 | 9 20 25 | 21°26'12 | 17° 6 | 5°15 | 16°43 | 28°26 | 15°17 | 23°33 | 24° 7 | 9°58 | 5°44 | 20° 8 | 18°45 | 3°40 | 26° 3 | S 10 |
| M11 | 9 24 21 | 22°26'46 | 1♍56 | 6°49 | 16° 7 | 28°52 | 15°25 | 23°38 | 24°10 | 10° 0 | 5°43 | 20° 5 | 18°42 | 3°46 | 26° 7 | M11 |
| T 12 | 9 28 18 | 23°27'18 | 16°55 | 8°24 | 15°33 | 29°19 | 15°34 | 23°43 | 24°13 | 10° 3 | 5°42 | 20° 0 | 18°39 | 3°53 | 26°10 | T 12 |
| W13 | 9 32 14 | 24°27'49 | 1♎54 | 10° 0 | 14°59 | 29°46 | 15°43 | 23°48 | 24°16 | 10° 5 | 5°41 | 19°55 | 18°35 | 4° 0 | 26°13 | W13 |
| T 14 | 9 36 11 | 25°28'19 | 16°43 | 11°37 | 14°27 | 0♊13 | 15°51 | 23°53 | 24°19 | 10° 7 | 5°40 | 19°50 | 18°32 | 4° 6 | 26°16 | T 14 |
| F 15 | 9 40 8 | 26°28'47 | 1♏17 | 13°15 | 13°57 | 0°40 | 15°59 | 23°58 | 24°23 | 10° 9 | 5°40 | 19°46 | 18°29 | 4°13 | 26°19 | F 15 |
| S 16 | 9 44 4 | 27°29'14 | 15°31 | 14°54 | 13°28 | 1° 8 | 16° 8 | 24° 3 | 24°26 | 10°11 | 5°39 | 19°44 | 18°26 | 4°20 | 26°23 | S 16 |
| S 17 | 9 48 1 | 28°29'40 | 29°23 | 16°33 | 13° 1 | 1°36 | 16°16 | 24° 9 | 24°29 | 10°14 | 5°38 | 19°D43 | 18°23 | 4°27 | 26°26 | S 17 |
| M18 | 9 51 57 | 29°30'04 | 12♐53 | 18°14 | 12°37 | 2° 4 | 16°23 | 24°14 | 24°32 | 10°16 | 5°38 | 19°44 | 18°20 | 4°33 | 26°29 | M18 |
| T 19 | 9 55 54 | 0♓30'28 | 26° 4 | 19°56 | 12°15 | 2°32 | 16°31 | 24°20 | 24°35 | 10°18 | 5°37 | 19°45 | 18°16 | 4°40 | 26°33 | T 19 |
| W20 | 9 59 50 | 1°30'49 | 8♑57 | 21°38 | 11°55 | 3° 0 | 16°39 | 24°25 | 24°38 | 10°20 | 5°36 | 19°47 | 18°13 | 4°47 | 26°36 | W20 |
| T 21 | 10 3 47 | 2°31'09 | 21°35 | 23°22 | 11°37 | 3°29 | 16°46 | 24°31 | 24°42 | 10°22 | 5°36 | 19°R47 | 18°10 | 4°54 | 26°40 | T 21 |
| F 22 | 10 7 43 | 3°31'28 | 4♒ 2 | 25° 6 | 11°22 | 3°57 | 16°54 | 24°37 | 24°45 | 10°24 | 5°35 | 19°46 | 18° 7 | 5° 0 | 26°43 | F 22 |
| S 23 | 10 11 40 | 4°31'45 | 16°19 | 26°52 | 11° 9 | 4°26 | 17° 1 | 24°43 | 24°48 | 10°27 | 5°35 | 19°43 | 18° 4 | 5° 7 | 26°47 | S 23 |
| S 24 | 10 15 37 | 5°32'00 | 28°29 | 28°39 | 10°59 | 4°55 | 17° 8 | 24°48 | 24°51 | 10°29 | 5°34 | 19°37 | 18° 1 | 5°14 | 26°50 | S 24 |
| M25 | 10 19 33 | 6°32'13 | 10♓31 | 0♓26 | 10°51 | 5°25 | 17°15 | 24°54 | 24°55 | 10°31 | 5°34 | 19°30 | 17°57 | 5°20 | 26°53 | M25 |
| T 26 | 10 23 30 | 7°32'25 | 22°29 | 2°15 | 10°46 | 5°54 | 17°22 | 25° 0 | 24°58 | 10°33 | 5°33 | 19°20 | 17°54 | 5°27 | 26°57 | T 26 |
| W27 | 10 27 26 | 8°32'34 | 4♈22 | 4° 5 | 10°43 | 6°23 | 17°28 | 25° 6 | 25° 1 | 10°35 | 5°33 | 19°10 | 17°51 | 5°34 | 27° 1 | W27 |
| T 28 | 10 31 23 | 9♓32'42 | 16♈14 | 5♓56 | 10°D43 | 6♊53 | 17♐35 | 25♈12 | 25♓ 5 | 10♒37 | 5♋32 | 19♑ 1 | 17♑48 | 5♈41 | 27♓ 4 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s 8 | 12n33 | 5n14 | 22s35 | 0s52 | 7s18 | 7n13 | 20n53 | 1n58 | 21s52 | 0n39 | 6n40 | 2s24 | 3s11 | 0s43 | 17s55 | 0s 2 | 20n27 | 2s54 | 21s58 | 22s 6 | 5n35 | 1n15 | 3n16 |
| S 2 | 16 51 | 16 51 | 5 8 | 22 27 | 0 59 | 7 19 | 7 24 | 20 58 | 1 58 | 21 53 | 0 39 | 6 42 | 2 24 | 3 9 | 0 43 | 17 54 | 0 2 | 20 27 | 2 54 | 21 58 | 22 7 | 5 38 | 1 16 | 3 16 |
| S 3 | 16 33 | 20 32 | 4 48 | 22 18 | 1 5 | 7 20 | 7 34 | 21 4 | 1 58 | 21 54 | 0 39 | 6 44 | 2 24 | 3 8 | 0 43 | 17 54 | 0 2 | 20 27 | 2 54 | 21 59 | 22 7 | 5 41 | 1 17 | 3 16 |
| M 4 | 16 15 | 23 23 | 4 15 | 22 8 | 1 12 | 7 22 | 7 43 | 21 10 | 1 58 | 21 55 | 0 39 | 6 46 | 2 24 | 3 7 | 0 43 | 17 53 | 0 2 | 20 27 | 2 54 | 21 59 | 22 7 | 5 44 | 1 18 | 3 16 |
| T 5 | 15 57 | 25 12 | 3 29 | 21 56 | 1 17 | 7 25 | 7 52 | 21 16 | 1 58 | 21 56 | 0 39 | 6 48 | 2 23 | 3 6 | 0 43 | 17 52 | 0 2 | 20 27 | 2 54 | 21 58 | 22 8 | 5 46 | 1 19 | 3 16 |
| W 6 | 15 39 | 25 43 | 2 32 | 21 44 | 1 23 | 7 29 | 7 59 | 21 22 | 1 58 | 21 57 | 0 39 | 6 50 | 2 23 | 3 5 | 0 43 | 17 52 | 0 3 | 20 28 | 2 54 | 21 58 | 22 8 | 5 49 | 1 20 | 3 15 |
| T 7 | 15 20 | 24 48 | 1 24 | 21 29 | 1 28 | 7 34 | 8 6 | 21 28 | 1 58 | 21 58 | 0 39 | 6 51 | 2 23 | 3 4 | 0 43 | 17 51 | 0 3 | 20 28 | 2 54 | 21 58 | 22 9 | 5 52 | 1 21 | 3 15 |
| F 8 | 15 1 | 22 23 | 0 10 | 21 14 | 1 33 | 7 40 | 8 12 | 21 34 | 1 58 | 21 59 | 0 39 | 6 53 | 2 23 | 3 2 | 0 43 | 17 51 | 0 3 | 20 28 | 2 54 | 21 58 | 22 9 | 5 55 | 1 22 | 3 15 |
| S 9 | 14 42 | 18 32 | 1s 7 | 20 57 | 1 38 | 7 46 | 8 17 | 21 40 | 1 58 | 22 0 | 0 39 | 6 55 | 2 22 | 3 1 | 0 43 | 17 50 | 0 3 | 20 28 | 2 54 | 21 58 | 22 10 | 5 58 | 1 23 | 3 15 |
| S 10 | 14 23 | 13 29 | 2 22 | 20 39 | 1 42 | 7 53 | 8 20 | 21 46 | 1 58 | 22 1 | 0 39 | 6 57 | 2 22 | 3 0 | 0 43 | 17 49 | 0 3 | 20 28 | 2 54 | 21 58 | 22 10 | 6 1 | 1 25 | 3 15 |
| M11 | 14 3 | 7 34 | 3 28 | 20 19 | 1 46 | 8 1 | 8 23 | 21 51 | 1 58 | 22 2 | 0 39 | 6 59 | 2 22 | 2 59 | 0 43 | 17 49 | 0 3 | 20 28 | 2 53 | 21 59 | 22 11 | 6 4 | 1 26 | 3 15 |
| T 12 | 13 44 | 1 10 | 4 21 | 19 58 | 1 50 | 8 9 | 8 25 | 21 57 | 1 58 | 22 3 | 0 39 | 7 1 | 2 22 | 2 58 | 0 43 | 17 48 | 0 3 | 20 28 | 2 53 | 21 59 | 22 11 | 6 7 | 1 27 | 3 14 |
| W13 | 13 23 | 5s17 | 4 56 | 19 36 | 1 54 | 8 18 | 8 26 | 22 3 | 1 57 | 22 4 | 0 39 | 7 4 | 2 22 | 2 56 | 0 43 | 17 48 | 0 3 | 20 29 | 2 53 | 22 0 | 22 11 | 6 10 | 1 28 | 3 14 |
| T 14 | 13 3 | 11 22 | 5 11 | 19 12 | 1 57 | 8 27 | 8 26 | 22 9 | 1 57 | 22 5 | 0 39 | 7 6 | 2 21 | 2 55 | 0 43 | 17 47 | 0 3 | 20 29 | 2 53 | 22 1 | 22 12 | 6 12 | 1 29 | 3 14 |
| F 15 | 12 43 | 16 42 | 5 5 | 18 47 | 1 59 | 8 36 | 8 25 | 22 14 | 1 57 | 22 6 | 0 39 | 7 8 | 2 21 | 2 54 | 0 43 | 17 46 | 0 3 | 20 29 | 2 53 | 22 1 | 22 12 | 6 15 | 1 30 | 3 14 |
| S 16 | 12 22 | 20 59 | 4 40 | 18 20 | 2 2 | 8 45 | 8 23 | 22 20 | 1 57 | 22 6 | 0 39 | 7 10 | 2 21 | 2 53 | 0 43 | 17 46 | 0 3 | 20 29 | 2 53 | 22 2 | 22 13 | 6 18 | 1 31 | 3 14 |
| S 17 | 12 1 | 23 57 | 4 0 | 17 52 | 2 4 | 8 55 | 8 21 | 22 25 | 1 57 | 22 7 | 0 39 | 7 12 | 2 21 | 2 51 | 0 43 | 17 45 | 0 3 | 20 29 | 2 53 | 22 2 | 22 13 | 6 21 | 1 33 | 3 14 |
| M18 | 11 40 | 25 28 | 3 7 | 17 22 | 2 5 | 9 5 | 8 18 | 22 31 | 1 57 | 22 8 | 0 39 | 7 14 | 2 20 | 2 50 | 0 43 | 17 45 | 0 3 | 20 29 | 2 53 | 22 2 | 22 14 | 6 24 | 1 34 | 3 14 |
| T 19 | 11 19 | 25 31 | 2 5 | 16 52 | 2 6 | 9 15 | 8 14 | 22 36 | 1 56 | 22 9 | 0 39 | 7 16 | 2 20 | 2 49 | 0 43 | 17 44 | 0 3 | 20 29 | 2 53 | 22 2 | 22 14 | 6 27 | 1 35 | 3 13 |
| W20 | 10 57 | 24 9 | 0 59 | 16 19 | 2 7 | 9 25 | 8 9 | 22 42 | 1 56 | 22 10 | 0 39 | 7 19 | 2 20 | 2 48 | 0 43 | 17 44 | 0 3 | 20 30 | 2 52 | 22 1 | 22 14 | 6 30 | 1 36 | 3 13 |
| T 21 | 10 36 | 21 35 | 0n10 | 15 46 | 2 7 | 9 34 | 8 4 | 22 47 | 1 56 | 22 10 | 0 39 | 7 21 | 2 20 | 2 46 | 0 43 | 17 43 | 0 3 | 20 30 | 2 52 | 22 1 | 22 15 | 6 32 | 1 37 | 3 13 |
| F 22 | 10 14 | 18 3 | 1 16 | 15 10 | 2 7 | 9 44 | 7 58 | 22 53 | 1 56 | 22 11 | 0 39 | 7 23 | 2 20 | 2 45 | 0 43 | 17 42 | 0 3 | 20 30 | 2 52 | 22 1 | 22 15 | 6 35 | 1 39 | 3 13 |
| S 23 | 9 52 | 13 46 | 2 18 | 14 34 | 2 7 | 9 54 | 7 51 | 22 58 | 1 56 | 22 12 | 0 39 | 7 26 | 2 19 | 2 44 | 0 43 | 17 42 | 0 3 | 20 30 | 2 52 | 22 2 | 22 16 | 6 38 | 1 40 | 3 13 |
| S 24 | 9 30 | 9 0 | 3 13 | 13 56 | 2 6 | 10 3 | 7 44 | 23 3 | 1 56 | 22 12 | 0 39 | 7 28 | 2 19 | 2 42 | 0 43 | 17 41 | 0 3 | 20 30 | 2 52 | 22 3 | 22 16 | 6 41 | 1 41 | 3 13 |
| M25 | 9 8 | 3 57 | 3 59 | 13 16 | 2 4 | 10 12 | 7 37 | 23 8 | 1 55 | 22 13 | 0 39 | 7 30 | 2 19 | 2 41 | 0 43 | 17 41 | 0 3 | 20 30 | 2 52 | 22 4 | 22 17 | 6 44 | 1 42 | 3 13 |
| T 26 | 8 45 | 1n12 | 4 34 | 12 36 | 2 2 | 10 21 | 7 29 | 23 13 | 1 55 | 22 14 | 0 39 | 7 33 | 2 19 | 2 40 | 0 43 | 17 40 | 0 3 | 20 30 | 2 52 | 22 5 | 22 17 | 6 47 | 1 44 | 3 13 |
| W27 | 8 23 | 6 16 | 4 56 | 11 53 | 2 0 | 10 30 | 7 21 | 23 18 | 1 55 | 22 14 | 0 39 | 7 35 | 2 19 | 2 38 | 0 43 | 17 40 | 0 3 | 20 31 | 2 52 | 22 7 | 22 17 | 6 50 | 1 45 | 3 12 |
| T 28 | 8s 0 | 11n 5 | 5n 6 | 11s10 | 1s57 | 10s38 | 7n13 | 23n23 | 1n55 | 22s15 | 0n39 | 7n37 | 2s18 | 2s37 | 0s43 | 17s39 | 0s 3 | 20n31 | 2s51 | 22s 8 | 22s18 | 6n52 | 1n46 | 3n12 |

Julian Day Number = 2332872.5, Delta T = 26.56 sec
Ecliptic obliquity = 23°28'57, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'18, Lahiri = 19°19'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## MARCH 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 35 19 | 10♓32'48 | 28♈ 5 | 7♓48 | 10♒45 | 7♊23 | 17♐41 | 25♈19 | 25♓ 8 | 10♒39 | 5°R32 | 18°R52 | 17♑45 | 5♈47 | 27♓ 8 | F 1 |
| S 2 | 10 39 16 | 11°32'51 | 10♉ 0 | 9°40 | 10°49 | 7°53 | 17°47 | 25°25 | 25°11 | 10°41 | 5♋31 | 18♑45 | 17°41 | 5°54 | 27°11 | S 2 |
| S 3 | 10 43 12 | 12°32'53 | 22° 1 | 11°34 | 10°56 | 8°23 | 17°53 | 25°31 | 25°15 | 10°43 | 5°31 | 18°40 | 17°38 | 6° 1 | 27°15 | S 3 |
| M 4 | 10 47 9 | 13°32'52 | 4♊13 | 13°29 | 11° 5 | 8°53 | 17°59 | 25°37 | 25°18 | 10°45 | 5°30 | 18°38 | 17°35 | 6° 7 | 27°18 | M 4 |
| T 5 | 10 51 5 | 14°32'49 | 16°40 | 15°25 | 11°16 | 9°24 | 18° 5 | 25°44 | 25°22 | 10°47 | 5°30 | 18°D38 | 17°32 | 6°14 | 27°22 | T 5 |
| W 6 | 10 55 2 | 15°32'44 | 29°27 | 17°21 | 11°29 | 9°54 | 18°10 | 25°50 | 25°25 | 10°49 | 5°30 | 18°38 | 17°29 | 6°21 | 27°26 | W 6 |
| T 7 | 10 58 59 | 16°32'37 | 12♋38 | 19°19 | 11°44 | 10°25 | 18°15 | 25°57 | 25°28 | 10°51 | 5°29 | 18°R39 | 17°26 | 6°28 | 27°29 | T 7 |
| F 8 | 11 2 55 | 17°32'28 | 26°17 | 21°16 | 12° 1 | 10°56 | 18°21 | 26° 3 | 25°32 | 10°53 | 5°29 | 18°39 | 17°22 | 6°34 | 27°33 | F 8 |
| S 9 | 11 6 52 | 18°32'16 | 10♌26 | 23°15 | 12°21 | 11°27 | 18°26 | 26°10 | 25°35 | 10°55 | 5°29 | 18°37 | 17°19 | 6°41 | 27°36 | S 9 |
| S 10 | 11 10 48 | 19°32'02 | 25° 2 | 25°14 | 12°42 | 11°58 | 18°31 | 26°17 | 25°39 | 10°57 | 5°29 | 18°33 | 17°16 | 6°48 | 27°40 | S 10 |
| M11 | 11 14 45 | 20°31'46 | 10♍ 2 | 27°13 | 13° 4 | 12°29 | 18°35 | 26°23 | 25°42 | 10°59 | 5°28 | 18°26 | 17°13 | 6°54 | 27°44 | M11 |
| T 12 | 11 18 41 | 21°31'28 | 25°16 | 29°12 | 13°29 | 13° 0 | 18°40 | 26°30 | 25°45 | 11° 0 | 5°28 | 18°17 | 17°10 | 7° 1 | 27°47 | T 12 |
| W13 | 11 22 38 | 22°31'08 | 10♎35 | 1♈11 | 13°55 | 13°32 | 18°44 | 26°37 | 25°49 | 11° 2 | 5°28 | 18° 7 | 17° 7 | 7° 8 | 27°51 | W13 |
| T 14 | 11 26 34 | 23°30'46 | 25°46 | 3° 9 | 14°23 | 14° 3 | 18°48 | 26°44 | 25°52 | 11° 4 | 5°28 | 17°58 | 17° 3 | 7°15 | 27°55 | T 14 |
| F 15 | 11 30 31 | 24°30'22 | 10♏40 | 5° 6 | 14°53 | 14°35 | 18°53 | 26°51 | 25°56 | 11° 6 | 5°28 | 17°50 | 17° 0 | 7°21 | 27°58 | F 15 |
| S 16 | 11 34 28 | 25°29'56 | 25° 9 | 7° 2 | 15°24 | 15° 6 | 18°56 | 26°57 | 25°59 | 11° 8 | 5°28 | 17°44 | 16°57 | 7°28 | 28° 2 | S 16 |
| S 17 | 11 38 24 | 26°29'29 | 9♐11 | 8°57 | 15°57 | 15°38 | 19° 0 | 27° 4 | 26° 3 | 11° 9 | 5°28 | 17°40 | 16°54 | 7°35 | 28° 6 | S 17 |
| M18 | 11 42 21 | 27°29'00 | 22°46 | 10°49 | 16°30 | 16°10 | 19° 4 | 27°11 | 26° 6 | 11°11 | 5°28 | 17°D39 | 16°51 | 7°42 | 28° 9 | M18 |
| T 19 | 11 46 17 | 28°28'29 | 5♑54 | 12°39 | 17° 6 | 16°42 | 19° 7 | 27°18 | 26° 9 | 11°13 | 5°D28 | 17°39 | 16°47 | 7°48 | 28°13 | T 19 |
| W20 | 11 50 14 | 29°27'57 | 18°41 | 14°27 | 17°42 | 17°14 | 19°10 | 27°26 | 26°13 | 11°14 | 5°28 | 17°R39 | 16°44 | 7°55 | 28°17 | W20 |
| T 21 | 11 54 10 | 0♈27'22 | 1♒10 | 16°11 | 18°20 | 17°46 | 19°13 | 27°33 | 26°16 | 11°16 | 5°28 | 17°39 | 16°41 | 8° 2 | 28°20 | T 21 |
| F 22 | 11 58 7 | 1°26'46 | 13°26 | 17°51 | 18°59 | 18°18 | 19°16 | 27°40 | 26°20 | 11°18 | 5°28 | 17°36 | 16°38 | 8° 8 | 28°24 | F 22 |
| S 23 | 12 2 3 | 2°26'08 | 25°31 | 19°27 | 19°39 | 18°51 | 19°19 | 27°47 | 26°23 | 11°19 | 5°28 | 17°30 | 16°35 | 8°15 | 28°28 | S 23 |
| S 24 | 12 6 0 | 3°25'28 | 7♓31 | 20°59 | 20°20 | 19°23 | 19°21 | 27°54 | 26°27 | 11°21 | 5°28 | 17°22 | 16°32 | 8°22 | 28°31 | S 24 |
| M25 | 12 9 57 | 4°24'46 | 19°26 | 22°25 | 21° 3 | 19°56 | 19°23 | 28° 1 | 26°30 | 11°23 | 5°28 | 17°11 | 16°28 | 8°29 | 28°35 | M25 |
| T 26 | 12 13 53 | 5°24'02 | 1♈18 | 23°47 | 21°46 | 20°28 | 19°25 | 28° 9 | 26°33 | 11°24 | 5°28 | 16°57 | 16°25 | 8°35 | 28°39 | T 26 |
| W27 | 12 17 50 | 6°23'16 | 13°10 | 25° 3 | 22°30 | 21° 1 | 19°27 | 28°16 | 26°37 | 11°26 | 5°28 | 16°43 | 16°22 | 8°42 | 28°42 | W27 |
| T 28 | 12 21 46 | 7°22'28 | 25° 3 | 26°13 | 23°15 | 21°34 | 19°29 | 28°23 | 26°40 | 11°27 | 5°29 | 16°29 | 16°19 | 8°49 | 28°46 | T 28 |
| F 29 | 12 25 43 | 8°21'38 | 6♉57 | 27°17 | 24° 1 | 22° 7 | 19°30 | 28°31 | 26°43 | 11°28 | 5°29 | 16°16 | 16°16 | 8°55 | 28°50 | F 29 |
| S 30 | 12 29 39 | 9°20'46 | 18°55 | 28°15 | 24°48 | 22°40 | 19°32 | 28°38 | 26°47 | 11°30 | 5°29 | 16° 5 | 16°12 | 9° 2 | 28°53 | S 30 |
| S 31 | 12 33 36 | 10♈19'51 | 0♊59 | 29♈ 6 | 25♒36 | 23♊13 | 19♐33 | 28♈46 | 26♓50 | 11♒31 | 5♋29 | 15♑57 | 16♑ 9 | 9♈ 9 | 28♓57 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 7s38 | 15n31 | 5n 2 | 10s25 | 1s53 | 10s46 | 7n 4 | 23n28 | 1n55 | 22s15 | 0n39 | 7n40 | 2s18 | 2s36 | 0s43 | 17s38 | 0s 3 | 20n31 | 2s51 | 22s 9 | 22s18 | 6n55 | 1n48 | 3n12 |
| S 2 | 7 15 | 19 21 | 4 45 | 9 39 | 1 49 | 10 53 | 6 55 | 23 33 | 1 54 | 22 16 | 0 40 | 7 42 | 2 18 | 2 34 | 0 43 | 17 38 | 0 3 | 20 31 | 2 51 | 22 10 | 22 19 | 6 58 | 1 49 | 3 12 |
| S 3 | 6 52 | 22 26 | 4 16 | 8 51 | 1 45 | 11 1 | 6 46 | 23 37 | 1 54 | 22 16 | 0 40 | 7 45 | 2 18 | 2 33 | 0 43 | 17 37 | 0 3 | 20 31 | 2 51 | 22 11 | 22 19 | 7 1 | 1 50 | 3 12 |
| M 4 | 6 29 | 24 33 | 3 35 | 8 2 | 1 40 | 11 7 | 6 36 | 23 42 | 1 54 | 22 17 | 0 40 | 7 47 | 2 18 | 2 32 | 0 43 | 17 37 | 0 3 | 20 31 | 2 51 | 22 11 | 22 19 | 7 4 | 1 52 | 3 12 |
| T 5 | 6 6 | 25 31 | 2 43 | 7 12 | 1 34 | 11 14 | 6 27 | 23 46 | 1 54 | 22 17 | 0 40 | 7 49 | 2 18 | 2 30 | 0 43 | 17 36 | 0 3 | 20 31 | 2 51 | 22 11 | 22 20 | 7 7 | 1 53 | 3 12 |
| W 6 | 5 42 | 25 10 | 1 41 | 6 21 | 1 28 | 11 19 | 6 17 | 23 51 | 1 53 | 22 18 | 0 40 | 7 52 | 2 17 | 2 29 | 0 43 | 17 36 | 0 3 | 20 31 | 2 51 | 22 11 | 22 20 | 7 9 | 1 54 | 3 12 |
| T 7 | 5 19 | 23 25 | 0 32 | 5 29 | 1 21 | 11 25 | 6 7 | 23 55 | 1 53 | 22 18 | 0 40 | 7 54 | 2 17 | 2 28 | 0 43 | 17 35 | 0 3 | 20 32 | 2 51 | 22 11 | 22 21 | 7 12 | 1 56 | 3 12 |
| F 8 | 4 56 | 20 16 | 0s41 | 4 36 | 1 14 | 11 29 | 5 57 | 23 59 | 1 53 | 22 19 | 0 40 | 7 57 | 2 17 | 2 26 | 0 43 | 17 35 | 0 3 | 20 32 | 2 51 | 22 11 | 22 21 | 7 15 | 1 57 | 3 11 |
| S 9 | 4 33 | 15 50 | 1 54 | 3 42 | 1 6 | 11 34 | 5 48 | 24 3 | 1 53 | 22 19 | 0 40 | 8 0 | 2 17 | 2 25 | 0 43 | 17 34 | 0 3 | 20 32 | 2 50 | 22 11 | 22 22 | 7 18 | 1 58 | 3 11 |
| S 10 | 4 9 | 10 21 | 3 1 | 2 47 | 0 58 | 11 38 | 5 38 | 24 7 | 1 52 | 22 20 | 0 40 | 8 2 | 2 17 | 2 23 | 0 43 | 17 34 | 0 3 | 20 32 | 2 50 | 22 12 | 22 22 | 7 21 | 2 0 | 3 11 |
| M11 | 3 46 | 4 9 | 3 58 | 1 51 | 0 49 | 11 41 | 5 28 | 24 11 | 1 52 | 22 20 | 0 40 | 8 5 | 2 17 | 2 22 | 0 43 | 17 33 | 0 3 | 20 32 | 2 50 | 22 13 | 22 22 | 7 24 | 2 1 | 3 11 |
| T 12 | 3 22 | 2s23 | 4 39 | 0 55 | 0 39 | 11 43 | 5 18 | 24 15 | 1 52 | 22 20 | 0 40 | 8 7 | 2 16 | 2 21 | 0 43 | 17 33 | 0 3 | 20 32 | 2 50 | 22 14 | 22 23 | 7 26 | 2 2 | 3 11 |
| W13 | 2 58 | 8 48 | 5 0 | 0n 2 | 0 29 | 11 46 | 5 8 | 24 19 | 1 52 | 22 21 | 0 40 | 8 10 | 2 16 | 2 19 | 0 43 | 17 32 | 0 3 | 20 32 | 2 50 | 22 15 | 22 23 | 7 29 | 2 4 | 3 11 |
| T 14 | 2 35 | 14 38 | 5 0 | 0 58 | 0 18 | 11 47 | 4 58 | 24 22 | 1 51 | 22 21 | 0 40 | 8 12 | 2 16 | 2 18 | 0 43 | 17 32 | 0 3 | 20 33 | 2 50 | 22 16 | 22 24 | 7 32 | 2 5 | 3 11 |
| F 15 | 2 11 | 19 28 | 4 40 | 1 55 | 0 7 | 11 48 | 4 48 | 24 26 | 1 51 | 22 21 | 0 40 | 8 15 | 2 16 | 2 17 | 0 43 | 17 31 | 0 3 | 20 33 | 2 50 | 22 18 | 22 24 | 7 35 | 2 7 | 3 11 |
| S 16 | 1 48 | 22 59 | 4 1 | 2 52 | 0n 4 | 11 49 | 4 38 | 24 29 | 1 51 | 22 22 | 0 40 | 8 18 | 2 16 | 2 15 | 0 43 | 17 31 | 0 3 | 20 33 | 2 50 | 22 18 | 22 24 | 7 38 | 2 8 | 3 11 |
| S 17 | 1 24 | 24 59 | 3 9 | 3 48 | 0 16 | 11 49 | 4 28 | 24 32 | 1 50 | 22 22 | 0 40 | 8 20 | 2 16 | 2 14 | 0 43 | 17 30 | 0 3 | 20 33 | 2 49 | 22 19 | 22 25 | 7 40 | 2 9 | 3 11 |
| M18 | 1 0 | 25 25 | 2 8 | 4 43 | 0 28 | 11 48 | 4 19 | 24 35 | 1 50 | 22 22 | 0 40 | 8 23 | 2 16 | 2 13 | 0 43 | 17 30 | 0 3 | 20 33 | 2 49 | 22 19 | 22 25 | 7 43 | 2 11 | 3 11 |
| T 19 | 0 36 | 24 23 | 1 2 | 5 37 | 0 40 | 11 47 | 4 9 | 24 38 | 1 50 | 22 22 | 0 40 | 8 25 | 2 16 | 2 11 | 0 43 | 17 29 | 0 3 | 20 33 | 2 49 | 22 19 | 22 26 | 7 46 | 2 12 | 3 11 |
| W20 | 0 13 | 22 5 | 0n 5 | 6 30 | 0 52 | 11 45 | 4 0 | 24 41 | 1 50 | 22 23 | 0 40 | 8 28 | 2 15 | 2 10 | 0 43 | 17 29 | 0 3 | 20 33 | 2 49 | 22 19 | 22 26 | 7 49 | 2 14 | 3 10 |
| T 21 | 0n11 | 18 47 | 1 11 | 7 22 | 1 4 | 11 43 | 3 50 | 24 44 | 1 49 | 22 23 | 0 40 | 8 31 | 2 15 | 2 8 | 0 43 | 17 29 | 0 3 | 20 33 | 2 49 | 22 19 | 22 26 | 7 52 | 2 15 | 3 10 |
| F 22 | 0 35 | 14 43 | 2 12 | 8 12 | 1 17 | 11 40 | 3 41 | 24 47 | 1 49 | 22 23 | 0 40 | 8 33 | 2 15 | 2 7 | 0 43 | 17 28 | 0 3 | 20 34 | 2 49 | 22 19 | 22 27 | 7 54 | 2 16 | 3 10 |
| S 23 | 0 58 | 10 7 | 3 6 | 9 0 | 1 29 | 11 36 | 3 31 | 24 49 | 1 49 | 22 23 | 0 40 | 8 36 | 2 15 | 2 6 | 0 43 | 17 28 | 0 3 | 20 34 | 2 49 | 22 20 | 22 27 | 7 57 | 2 18 | 3 10 |
| S 24 | 1 22 | 5 11 | 3 51 | 9 45 | 1 41 | 11 32 | 3 22 | 24 52 | 1 49 | 22 23 | 0 40 | 8 39 | 2 15 | 2 4 | 0 43 | 17 27 | 0 3 | 20 34 | 2 49 | 22 21 | 22 27 | 8 0 | 2 19 | 3 10 |
| M25 | 1 45 | 0 7 | 4 26 | 10 29 | 1 52 | 11 27 | 3 13 | 24 54 | 1 48 | 22 24 | 0 40 | 8 41 | 2 15 | 2 3 | 0 43 | 17 27 | 0 3 | 20 34 | 2 48 | 22 23 | 22 28 | 8 3 | 2 21 | 3 10 |
| T 26 | 2 9 | 4n56 | 4 49 | 11 9 | 2 3 | 11 22 | 3 4 | 24 56 | 1 48 | 22 24 | 0 40 | 8 44 | 2 15 | 2 2 | 0 43 | 17 26 | 0 3 | 20 34 | 2 48 | 22 24 | 22 28 | 8 6 | 2 22 | 3 10 |
| W27 | 2 32 | 9 48 | 4 59 | 11 47 | 2 14 | 11 17 | 2 55 | 24 58 | 1 48 | 22 24 | 0 40 | 8 47 | 2 15 | 2 0 | 0 43 | 17 26 | 0 3 | 20 34 | 2 48 | 22 26 | 22 29 | 8 8 | 2 23 | 3 10 |
| T 28 | 2 56 | 14 18 | 4 56 | 12 22 | 2 24 | 11 10 | 2 46 | 25 0 | 1 47 | 22 24 | 0 40 | 8 50 | 2 15 | 1 59 | 0 43 | 17 26 | 0 3 | 20 34 | 2 48 | 22 28 | 22 29 | 8 11 | 2 25 | 3 10 |
| F 29 | 3 19 | 18 16 | 4 41 | 12 54 | 2 33 | 11 3 | 2 38 | 25 2 | 1 47 | 22 24 | 0 40 | 8 52 | 2 14 | 1 58 | 0 43 | 17 25 | 0 3 | 20 34 | 2 48 | 22 29 | 22 29 | 8 14 | 2 26 | 3 10 |
| S 30 | 3 43 | 21 31 | 4 13 | 13 23 | 2 41 | 10 56 | 2 29 | 25 3 | 1 47 | 22 24 | 0 40 | 8 55 | 2 14 | 1 56 | 0 43 | 17 25 | 0 3 | 20 34 | 2 48 | 22 31 | 22 30 | 8 17 | 2 28 | 3 10 |
| S 31 | 4n 6 | 23n52 | 3n33 | 13n48 | 2n49 | 10s48 | 2n21 | 25n 5 | 1n46 | 22s24 | 0n40 | 8n58 | 2s14 | 1s55 | 0s43 | 17s24 | 0s 3 | 20n35 | 2s48 | 22s32 | 22s30 | 8n19 | 2n29 | 3n10 |

Julian Day Number = 2332900.5, Delta T = 26.51 sec
Ecliptic obliquity = 23°28'57, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'22, Lahiri = 19°19'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## APRIL 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 37 32 | 11♈18'54 | 13♊13 | 29♈51 | 26♒24 | 23♊46 | 19♐34 | 28♈53 | 26♓54 | 11♒33 | 5♋30 | 15°R52 | 16♑ 6 | 9♈16 | 29♓ 1 | M 1 |
| T 2 | 12 41 29 | 12°17'55 | 25°39 | 0♉29 | 27°14 | 24°19 | 19°35 | 29° 1 | 26°57 | 11°34 | 5°30 | 15♑50 | 16° 3 | 9°22 | 29° 4 | T 2 |
| W 3 | 12 45 26 | 13°16'54 | 8♋23 | 1° 0 | 28° 4 | 24°52 | 19°35 | 29° 8 | 27° 0 | 11°35 | 5°30 | 15°49 | 16° 0 | 9°29 | 29° 8 | W 3 |
| T 4 | 12 49 22 | 14°15'51 | 21°28 | 1°25 | 28°54 | 25°25 | 19°36 | 29°16 | 27° 4 | 11°37 | 5°31 | 15°49 | 15°57 | 9°36 | 29°11 | T 4 |
| F 5 | 12 53 19 | 15°14'45 | 4♌59 | 1°42 | 29°46 | 25°59 | 19°36 | 29°23 | 27° 7 | 11°38 | 5°31 | 15°49 | 15°53 | 9°43 | 29°15 | F 5 |
| S 6 | 12 57 15 | 16°13'36 | 18°57 | 1°53 | 0♓38 | 26°32 | 19°R36 | 29°31 | 27°10 | 11°39 | 5°31 | 15°46 | 15°50 | 9°49 | 29°18 | S 6 |
| S 7 | 13 1 12 | 17°12'26 | 3♍24 | 1°R58 | 1°30 | 27° 6 | 19°36 | 29°38 | 27°13 | 11°40 | 5°32 | 15°41 | 15°47 | 9°56 | 29°22 | S 7 |
| M 8 | 13 5 8 | 18°11'13 | 18°16 | 1°56 | 2°23 | 27°39 | 19°35 | 29°46 | 27°17 | 11°42 | 5°32 | 15°34 | 15°44 | 10° 3 | 29°26 | M 8 |
| T 9 | 13 9 5 | 19° 9'58 | 3♎27 | 1°48 | 3°17 | 28°13 | 19°35 | 29°53 | 27°20 | 11°43 | 5°33 | 15°24 | 15°41 | 10° 9 | 29°29 | T 9 |
| W10 | 13 13 1 | 20° 8'40 | 18°47 | 1°34 | 4°12 | 28°47 | 19°34 | 0♉ 1 | 27°23 | 11°44 | 5°33 | 15°13 | 15°38 | 10°16 | 29°33 | W10 |
| T 11 | 13 16 58 | 21° 7'21 | 4♏ 5 | 1°14 | 5° 6 | 29°20 | 19°33 | 0° 9 | 27°26 | 11°45 | 5°34 | 15° 2 | 15°34 | 10°23 | 29°36 | T 11 |
| F 12 | 13 20 54 | 22° 6'00 | 19° 9 | 0°50 | 6° 2 | 29°54 | 19°32 | 0°16 | 27°30 | 11°46 | 5°34 | 14°52 | 15°31 | 10°30 | 29°39 | F 12 |
| S 13 | 13 24 51 | 23° 4'38 | 3♐50 | 0°21 | 6°58 | 0♋28 | 19°31 | 0°24 | 27°33 | 11°47 | 5°35 | 14°45 | 15°28 | 10°36 | 29°43 | S 13 |
| S 14 | 13 28 48 | 24° 3'13 | 18° 3 | 29♈48 | 7°54 | 1° 2 | 19°29 | 0°31 | 27°36 | 11°48 | 5°35 | 14°41 | 15°25 | 10°43 | 29°46 | S 14 |
| M15 | 13 32 44 | 25° 1'47 | 1♑46 | 29°12 | 8°51 | 1°36 | 19°28 | 0°39 | 27°39 | 11°49 | 5°36 | 14°39 | 15°22 | 10°50 | 29°50 | M15 |
| T 16 | 13 36 41 | 26° 0'19 | 15° 1 | 28°33 | 9°48 | 2°10 | 19°26 | 0°47 | 27°42 | 11°50 | 5°37 | 14°D38 | 15°18 | 10°56 | 29°53 | T 16 |
| W17 | 13 40 37 | 26°58'50 | 27°50 | 27°53 | 10°46 | 2°44 | 19°24 | 0°54 | 27°45 | 11°51 | 5°37 | 14°R38 | 15°15 | 11° 3 | 29°57 | W17 |
| T 18 | 13 44 34 | 27°57'19 | 10♒19 | 27°12 | 11°44 | 3°18 | 19°21 | 1° 2 | 27°48 | 11°52 | 5°38 | 14°38 | 15°12 | 11°10 | 29°59 | T 18 |
| F 19 | 13 48 30 | 28°55'46 | 22°32 | 26°30 | 12°43 | 3°52 | 19°19 | 1°10 | 27°51 | 11°52 | 5°39 | 14°36 | 15° 9 | 11°17 | 0♈ 3 | F 19 |
| S 20 | 13 52 27 | 29°54'12 | 4♓34 | 25°49 | 13°42 | 4°26 | 19°17 | 1°18 | 27°55 | 11°53 | 5°39 | 14°31 | 15° 6 | 11°23 | 0° 6 | S 20 |
| S 21 | 13 56 23 | 0♉52'36 | 16°29 | 25°10 | 14°41 | 5° 1 | 19°14 | 1°25 | 27°58 | 11°54 | 5°40 | 14°23 | 15° 3 | 11°30 | 0°10 | S 21 |
| M22 | 14 0 20 | 1°50'58 | 28°20 | 24°32 | 15°41 | 5°35 | 19°11 | 1°33 | 28° 1 | 11°55 | 5°41 | 14°13 | 14°59 | 11°37 | 0°13 | M22 |
| T 23 | 14 4 17 | 2°49'19 | 10♈11 | 23°57 | 16°41 | 6° 9 | 19° 8 | 1°41 | 28° 4 | 11°56 | 5°42 | 14° 2 | 14°56 | 11°44 | 0°16 | T 23 |
| W24 | 14 8 13 | 3°47'38 | 22° 4 | 23°25 | 17°41 | 6°44 | 19° 4 | 1°48 | 28° 6 | 11°56 | 5°42 | 13°49 | 14°53 | 11°50 | 0°19 | W24 |
| T 25 | 14 12 10 | 4°45'55 | 4♉ 0 | 22°56 | 18°42 | 7°18 | 19° 1 | 1°56 | 28° 9 | 11°57 | 5°43 | 13°36 | 14°50 | 11°57 | 0°23 | T 25 |
| F 26 | 14 16 6 | 5°44'10 | 16° 0 | 22°31 | 19°43 | 7°53 | 18°57 | 2° 4 | 28°12 | 11°58 | 5°44 | 13°24 | 14°47 | 12° 4 | 0°26 | F 26 |
| S 27 | 14 20 3 | 6°42'24 | 28° 6 | 22°11 | 20°45 | 8°27 | 18°54 | 2°11 | 28°15 | 11°58 | 5°45 | 13°14 | 14°44 | 12°10 | 0°29 | S 27 |
| S 28 | 14 23 59 | 7°40'36 | 10♊19 | 21°55 | 21°46 | 9° 2 | 18°50 | 2°19 | 28°18 | 11°59 | 5°46 | 13° 7 | 14°40 | 12°17 | 0°32 | S 28 |
| M29 | 14 27 56 | 8°38'46 | 22°42 | 21°43 | 22°48 | 9°37 | 18°45 | 2°27 | 28°21 | 11°59 | 5°47 | 13° 2 | 14°37 | 12°24 | 0°35 | M29 |
| T 30 | 14 31 52 | 9♉36'54 | 5♋16 | 21♈36 | 23♓50 | 10♋11 | 18♐41 | 2♉34 | 28♓24 | 12♒ 0 | 5♋48 | 13♑ 0 | 14♑34 | 12♈31 | 0♈38 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 4n29 | 25n 7 | 2n43 | 14n10 | 2n55 | 10s40 | 2n12 | 25n 6 | 1n46 | 22s24 | 0n40 | 9n 0 | 2s14 | 1s54 | 0s43 | 17s24 | 0s 3 | 20n35 | 2s48 | 22s32 | 22s31 | 8n22 | 2n31 | 3n10 |
| T 2 | 4 52 | 25 9 | 1 44 | 14 29 | 3 0 | 10 31 | 2 4 | 25 7 | 1 46 | 22 24 | 0 40 | 9 3 | 2 14 | 1 52 | 0 43 | 17 24 | 0 3 | 20 35 | 2 47 | 22 32 | 22 31 | 8 25 | 2 32 | 3 10 |
| W 3 | 5 15 | 23 52 | 0 39 | 14 44 | 3 5 | 10 21 | 1 56 | 25 8 | 1 45 | 22 24 | 0 40 | 9 6 | 2 14 | 1 51 | 0 43 | 17 23 | 0 3 | 20 35 | 2 47 | 22 33 | 22 31 | 8 28 | 2 33 | 3 10 |
| T 4 | 5 38 | 21 17 | 0s30 | 14 55 | 3 8 | 10 11 | 1 48 | 25 9 | 1 45 | 22 24 | 0 40 | 9 9 | 2 14 | 1 50 | 0 43 | 17 23 | 0 3 | 20 35 | 2 47 | 22 33 | 22 32 | 8 30 | 2 35 | 3 10 |
| F 5 | 6 1 | 17 27 | 1 39 | 15 3 | 3 10 | 10 1 | 1 40 | 25 10 | 1 45 | 22 24 | 0 40 | 9 11 | 2 14 | 1 48 | 0 43 | 17 23 | 0 3 | 20 35 | 2 47 | 22 33 | 22 32 | 8 33 | 2 36 | 3 10 |
| S 6 | 6 24 | 12 33 | 2 45 | 15 7 | 3 10 | 9 50 | 1 33 | 25 11 | 1 45 | 22 24 | 0 40 | 9 14 | 2 14 | 1 47 | 0 43 | 17 22 | 0 3 | 20 35 | 2 47 | 22 33 | 22 32 | 8 36 | 2 38 | 3 10 |
| S 7 | 6 46 | 6 49 | 3 43 | 15 8 | 3 9 | 9 38 | 1 25 | 25 11 | 1 44 | 22 24 | 0 40 | 9 17 | 2 14 | 1 46 | 0 43 | 17 22 | 0 3 | 20 35 | 2 47 | 22 34 | 22 33 | 8 39 | 2 39 | 3 10 |
| M 8 | 7 9 | 0 33 | 4 27 | 15 5 | 3 7 | 9 26 | 1 18 | 25 12 | 1 44 | 22 24 | 0 40 | 9 19 | 2 14 | 1 44 | 0 43 | 17 22 | 0 3 | 20 35 | 2 47 | 22 34 | 22 33 | 8 41 | 2 40 | 3 10 |
| T 9 | 7 31 | 5s52 | 4 54 | 14 59 | 3 3 | 9 14 | 1 10 | 25 12 | 1 44 | 22 24 | 0 40 | 9 22 | 2 14 | 1 43 | 0 43 | 17 21 | 0 3 | 20 36 | 2 47 | 22 36 | 22 34 | 8 44 | 2 42 | 3 10 |
| W10 | 7 53 | 11 59 | 5 0 | 14 49 | 2 58 | 9 1 | 1 3 | 25 12 | 1 43 | 22 24 | 0 40 | 9 25 | 2 14 | 1 42 | 0 43 | 17 21 | 0 3 | 20 36 | 2 46 | 22 37 | 22 34 | 8 47 | 2 43 | 3 10 |
| T 11 | 8 15 | 17 21 | 4 44 | 14 35 | 2 51 | 8 47 | 0 56 | 25 12 | 1 43 | 22 24 | 0 40 | 9 28 | 2 13 | 1 41 | 0 43 | 17 21 | 0 3 | 20 36 | 2 46 | 22 38 | 22 34 | 8 50 | 2 45 | 3 10 |
| F 12 | 8 37 | 21 32 | 4 9 | 14 19 | 2 42 | 8 33 | 0 49 | 25 12 | 1 43 | 22 24 | 0 40 | 9 30 | 2 13 | 1 39 | 0 43 | 17 21 | 0 3 | 20 36 | 2 46 | 22 39 | 22 35 | 8 52 | 2 46 | 3 10 |
| S 13 | 8 59 | 24 11 | 3 18 | 14 0 | 2 33 | 8 19 | 0 42 | 25 11 | 1 42 | 22 24 | 0 40 | 9 33 | 2 13 | 1 38 | 0 43 | 17 20 | 0 3 | 20 36 | 2 46 | 22 40 | 22 35 | 8 55 | 2 47 | 3 10 |
| S 14 | 9 21 | 25 12 | 2 16 | 13 38 | 2 22 | 8 4 | 0 36 | 25 11 | 1 42 | 22 24 | 0 40 | 9 36 | 2 13 | 1 37 | 0 43 | 17 20 | 0 3 | 20 36 | 2 46 | 22 40 | 22 35 | 8 58 | 2 49 | 3 10 |
| M15 | 9 42 | 24 36 | 1 8 | 13 14 | 2 9 | 7 49 | 0 29 | 25 10 | 1 42 | 22 24 | 0 40 | 9 38 | 2 13 | 1 36 | 0 43 | 17 20 | 0 3 | 20 36 | 2 46 | 22 41 | 22 36 | 9 0 | 2 50 | 3 10 |
| T 16 | 10 4 | 22 36 | 0n 2 | 12 47 | 1 56 | 7 33 | 0 23 | 25 9 | 1 41 | 22 23 | 0 40 | 9 41 | 2 13 | 1 34 | 0 43 | 17 20 | 0 3 | 20 36 | 2 46 | 22 41 | 22 36 | 9 3 | 2 51 | 3 10 |
| W17 | 10 25 | 19 30 | 1 9 | 12 19 | 1 42 | 7 17 | 0 16 | 25 8 | 1 41 | 22 23 | 0 40 | 9 44 | 2 13 | 1 33 | 0 43 | 17 19 | 0 3 | 20 36 | 2 46 | 22 41 | 22 36 | 9 6 | 2 53 | 3 10 |
| T 18 | 10 46 | 15 35 | 2 11 | 11 50 | 1 26 | 7 1 | 0 10 | 25 7 | 1 41 | 22 23 | 0 40 | 9 46 | 2 13 | 1 32 | 0 43 | 17 19 | 0 3 | 20 36 | 2 45 | 22 41 | 22 37 | 9 9 | 2 54 | 3 10 |
| F 19 | 11 7 | 11 5 | 3 6 | 11 20 | 1 10 | 6 44 | 0 4 | 25 6 | 1 40 | 22 23 | 0 40 | 9 49 | 2 13 | 1 31 | 0 43 | 17 19 | 0 3 | 20 36 | 2 45 | 22 41 | 22 37 | 9 11 | 2 55 | 3 10 |
| S 20 | 11 27 | 6 15 | 3 52 | 10 50 | 0 54 | 6 27 | 0s 2 | 25 4 | 1 40 | 22 23 | 0 40 | 9 52 | 2 13 | 1 30 | 0 43 | 17 19 | 0 3 | 20 37 | 2 45 | 22 41 | 22 38 | 9 14 | 2 57 | 3 10 |
| S 21 | 11 48 | 1 15 | 4 27 | 10 19 | 0 37 | 6 9 | 0 7 | 25 3 | 1 40 | 22 23 | 0 40 | 9 54 | 2 13 | 1 28 | 0 43 | 17 18 | 0 3 | 20 37 | 2 45 | 22 42 | 22 38 | 9 17 | 2 58 | 3 10 |
| M22 | 12 8 | 3n46 | 4 50 | 9 50 | 0 20 | 5 51 | 0 13 | 25 1 | 1 39 | 22 22 | 0 40 | 9 57 | 2 13 | 1 27 | 0 43 | 17 18 | 0 3 | 20 37 | 2 45 | 22 43 | 22 38 | 9 19 | 2 59 | 3 10 |
| T 23 | 12 28 | 8 38 | 5 0 | 9 21 | 0 3 | 5 33 | 0 18 | 24 59 | 1 39 | 22 22 | 0 40 | 10 0 | 2 13 | 1 26 | 0 43 | 17 18 | 0 3 | 20 37 | 2 45 | 22 45 | 22 39 | 9 22 | 3 1 | 3 10 |
| W24 | 12 48 | 13 13 | 4 58 | 8 53 | 0s14 | 5 14 | 0 24 | 24 57 | 1 39 | 22 22 | 0 40 | 10 2 | 2 13 | 1 25 | 0 43 | 17 18 | 0 3 | 20 37 | 2 45 | 22 46 | 22 39 | 9 25 | 3 2 | 3 10 |
| T 25 | 13 8 | 17 18 | 4 43 | 8 27 | 0 31 | 4 55 | 0 29 | 24 55 | 1 38 | 22 22 | 0 40 | 10 5 | 2 13 | 1 24 | 0 43 | 17 18 | 0 3 | 20 37 | 2 45 | 22 47 | 22 39 | 9 27 | 3 3 | 3 10 |
| F 26 | 13 27 | 20 43 | 4 14 | 8 3 | 0 47 | 4 36 | 0 34 | 24 53 | 1 38 | 22 21 | 0 40 | 10 8 | 2 13 | 1 23 | 0 43 | 17 17 | 0 3 | 20 37 | 2 45 | 22 48 | 22 40 | 9 30 | 3 5 | 3 10 |
| S 27 | 13 47 | 23 15 | 3 35 | 7 41 | 1 3 | 4 16 | 0 39 | 24 50 | 1 38 | 22 21 | 0 40 | 10 10 | 2 13 | 1 21 | 0 43 | 17 17 | 0 3 | 20 37 | 2 44 | 22 49 | 22 40 | 9 33 | 3 6 | 3 10 |
| S 28 | 14 6 | 24 45 | 2 45 | 7 21 | 1 18 | 3 57 | 0 44 | 24 47 | 1 37 | 22 21 | 0 40 | 10 13 | 2 13 | 1 20 | 0 43 | 17 17 | 0 3 | 20 37 | 2 44 | 22 50 | 22 40 | 9 36 | 3 7 | 3 10 |
| M29 | 14 25 | 25 3 | 1 46 | 7 4 | 1 32 | 3 36 | 0 49 | 24 45 | 1 37 | 22 20 | 0 40 | 10 16 | 2 13 | 1 19 | 0 43 | 17 17 | 0 4 | 20 37 | 2 44 | 22 51 | 22 41 | 9 38 | 3 8 | 3 10 |
| T 30 | 14n43 | 24n 4 | 0n41 | 6n49 | 1s45 | 3s16 | 0s53 | 24n42 | 1n37 | 22s20 | 0n40 | 10n18 | 2s13 | 1s18 | 0s43 | 17s17 | 0s 4 | 20n37 | 2s44 | 22s51 | 22s41 | 9n41 | 3n10 | 3n10 |

Julian Day Number = 2332931.5, Delta T = 26.46 sec
Ecliptic obliquity = 23°28'57, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'26, Lahiri = 19°19'26Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## MAY 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 35 49 | 10♉35'00 | 18♋ 5 | 21°D34 | 24♓53 | 10♋46 | 18°R37 | 2♉42 | 28♓26 | 12♒ 0 | 5♋48 | 13°D 0 | 14♑31 | 12♈37 | 0♈41 | W 1 |
| T 2 | 14 39 46 | 11°33'04 | 1♌11 | 21♈37 | 25°55 | 11°21 | 18♐32 | 2°50 | 28°29 | 12° 1 | 5°49 | 13♑ 1 | 14°28 | 12°44 | 0°44 | T 2 |
| F 3 | 14 43 42 | 12°31'07 | 14°38 | 21°44 | 26°58 | 11°56 | 18°27 | 2°57 | 28°32 | 12° 1 | 5°50 | 13°R 1 | 14°24 | 12°51 | 0°47 | F 3 |
| S 4 | 14 47 39 | 13°29'07 | 28°28 | 21°56 | 28° 1 | 12°31 | 18°22 | 3° 5 | 28°34 | 12° 1 | 5°51 | 13° 0 | 14°21 | 12°58 | 0°50 | S 4 |
| S 5 | 14 51 35 | 14°27'05 | 12♍42 | 22°13 | 29° 5 | 13° 6 | 18°17 | 3°13 | 28°37 | 12° 2 | 5°52 | 12°57 | 14°18 | 13° 4 | 0°53 | S 5 |
| M 6 | 14 55 32 | 15°25'02 | 27°18 | 22°34 | 0♈ 8 | 13°41 | 18°12 | 3°20 | 28°40 | 12° 2 | 5°53 | 12°52 | 14°15 | 13°11 | 0°56 | M 6 |
| T 7 | 14 59 28 | 16°22'56 | 12♎12 | 22°59 | 1°12 | 14°16 | 18° 7 | 3°28 | 28°42 | 12° 2 | 5°54 | 12°45 | 14°12 | 13°18 | 0°58 | T 7 |
| W 8 | 15 3 25 | 17°20'49 | 27°17 | 23°29 | 2°16 | 14°51 | 18° 1 | 3°35 | 28°45 | 12° 2 | 5°55 | 12°37 | 14° 9 | 13°24 | 1° 1 | W 8 |
| T 9 | 15 7 21 | 18°18'40 | 12♏24 | 24° 3 | 3°20 | 15°26 | 17°56 | 3°43 | 28°47 | 12° 3 | 5°57 | 12°29 | 14° 5 | 13°31 | 1° 4 | T 9 |
| F 10 | 15 11 18 | 19°16'30 | 27°21 | 24°40 | 4°25 | 16° 1 | 17°50 | 3°50 | 28°50 | 12° 3 | 5°58 | 12°22 | 14° 2 | 13°38 | 1° 7 | F 10 |
| S 11 | 15 15 15 | 20°14'19 | 12♐ 0 | 25°22 | 5°30 | 16°36 | 17°44 | 3°58 | 28°52 | 12° 3 | 5°59 | 12°16 | 13°59 | 13°45 | 1° 9 | S 11 |
| S 12 | 15 19 11 | 21°12'06 | 26°16 | 26° 7 | 6°34 | 17°11 | 17°38 | 4° 5 | 28°55 | 12° 3 | 6° 0 | 12°13 | 13°56 | 13°51 | 1°12 | S 12 |
| M13 | 15 23 8 | 22° 9'52 | 10♑ 4 | 26°56 | 7°39 | 17°46 | 17°32 | 4°13 | 28°57 | 12° 3 | 6° 1 | 12°D12 | 13°53 | 13°58 | 1°15 | M13 |
| T 14 | 15 27 4 | 23° 7'37 | 23°24 | 27°48 | 8°45 | 18°22 | 17°26 | 4°20 | 28°59 | 12° 3 | 6° 2 | 12°12 | 13°50 | 14° 5 | 1°17 | T 14 |
| W15 | 15 31 1 | 24° 5'20 | 6♒19 | 28°43 | 9°50 | 18°57 | 17°19 | 4°28 | 29° 2 | 12°R 3 | 6° 3 | 12°13 | 13°46 | 14°11 | 1°20 | W15 |
| T 16 | 15 34 57 | 25° 3'03 | 18°52 | 29°42 | 10°56 | 19°32 | 17°13 | 4°35 | 29° 4 | 12° 3 | 6° 4 | 12°14 | 13°43 | 14°18 | 1°22 | T 16 |
| F 17 | 15 38 54 | 26° 0'44 | 1♓ 8 | 0♉44 | 12° 1 | 20° 7 | 17° 6 | 4°42 | 29° 6 | 12° 3 | 6° 6 | 12°R15 | 13°40 | 14°25 | 1°25 | F 17 |
| S 18 | 15 42 50 | 26°58'24 | 13°11 | 1°49 | 13° 7 | 20°43 | 17° 0 | 4°50 | 29° 8 | 12° 3 | 6° 7 | 12°13 | 13°37 | 14°32 | 1°27 | S 18 |
| S 19 | 15 46 47 | 27°56'03 | 25° 6 | 2°56 | 14°13 | 21°18 | 16°53 | 4°57 | 29°10 | 12° 3 | 6° 8 | 12°10 | 13°34 | 14°38 | 1°29 | S 19 |
| M20 | 15 50 44 | 28°53'42 | 6♈58 | 4° 7 | 15°20 | 21°54 | 16°46 | 5° 4 | 29°13 | 12° 3 | 6° 9 | 12° 4 | 13°30 | 14°45 | 1°32 | M20 |
| T 21 | 15 54 40 | 29°51'19 | 18°49 | 5°21 | 16°26 | 22°29 | 16°39 | 5°12 | 29°15 | 12° 2 | 6°11 | 11°58 | 13°27 | 14°52 | 1°34 | T 21 |
| W22 | 15 58 37 | 0♊48'55 | 0♉45 | 6°37 | 17°32 | 23° 5 | 16°32 | 5°19 | 29°17 | 12° 2 | 6°12 | 11°50 | 13°24 | 14°59 | 1°36 | W22 |
| T 23 | 16 2 33 | 1°46'30 | 12°46 | 7°56 | 18°39 | 23°40 | 16°25 | 5°26 | 29°19 | 12° 2 | 6°13 | 11°43 | 13°21 | 15° 5 | 1°38 | T 23 |
| F 24 | 16 6 30 | 2°44'04 | 24°54 | 9°18 | 19°46 | 24°16 | 16°18 | 5°33 | 29°21 | 12° 2 | 6°14 | 11°36 | 13°18 | 15°12 | 1°41 | F 24 |
| S 25 | 16 10 26 | 3°41'37 | 7♊12 | 10°42 | 20°53 | 24°52 | 16°10 | 5°40 | 29°23 | 12° 1 | 6°16 | 11°31 | 13°15 | 15°19 | 1°43 | S 25 |
| S 26 | 16 14 23 | 4°39'09 | 19°39 | 12° 9 | 22° 0 | 25°27 | 16° 3 | 5°47 | 29°24 | 12° 1 | 6°17 | 11°27 | 13°11 | 15°25 | 1°45 | S 26 |
| M27 | 16 18 19 | 5°36'40 | 2♋17 | 13°38 | 23° 7 | 26° 3 | 15°56 | 5°54 | 29°26 | 12° 1 | 6°18 | 11°25 | 13° 8 | 15°32 | 1°47 | M27 |
| T 28 | 16 22 16 | 6°34'10 | 15° 8 | 15°11 | 24°14 | 26°39 | 15°48 | 6° 1 | 29°28 | 12° 0 | 6°20 | 11°D25 | 13° 5 | 15°39 | 1°49 | T 28 |
| W29 | 16 26 13 | 7°31'38 | 28°11 | 16°45 | 25°22 | 27°14 | 15°41 | 6° 8 | 29°30 | 12° 0 | 6°21 | 11°25 | 13° 2 | 15°46 | 1°51 | W29 |
| T 30 | 16 30 9 | 8°29'06 | 11♌29 | 18°22 | 26°29 | 27°50 | 15°33 | 6°15 | 29°32 | 11°59 | 6°22 | 11°27 | 12°59 | 15°52 | 1°53 | T 30 |
| F 31 | 16 34 6 | 9♊26'32 | 25♌ 2 | 20♉ 2 | 27♈37 | 28♋26 | 15♐26 | 6♉22 | 29♓33 | 11♒59 | 6♋24 | 11♑28 | 12♑56 | 15♈59 | 1♈55 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 15n 1 | 21n49 | 0s27 | 6n36 | 1s58 | 2s55 | 0s58 | 24n39 | 1n36 | 22s20 | 0n40 | 10n21 | 2s13 | 1s17 | 0s43 | 17s17 | 0s 4 | 20n37 | 2s44 | 22s51 | 22s41 | 9n44 | 3n11 | 3n10 |
| T 2 | 15 20 | 18 23 | 1 35 | 6 26 | 2 10 | 2 34 | 1 2 | 24 35 | 1 36 | 22 19 | 0 40 | 10 23 | 2 13 | 1 16 | 0 43 | 17 17 | 0 4 | 20 37 | 2 44 | 22 51 | 22 42 | 9 46 | 3 12 | 3 10 |
| F 3 | 15 37 | 13 55 | 2 40 | 6 19 | 2 21 | 2 13 | 1 6 | 24 32 | 1 35 | 22 19 | 0 40 | 10 26 | 2 13 | 1 15 | 0 43 | 17 17 | 0 4 | 20 38 | 2 44 | 22 51 | 22 42 | 9 49 | 3 13 | 3 10 |
| S 4 | 15 55 | 8 37 | 3 38 | 6 14 | 2 30 | 1 52 | 1 10 | 24 28 | 1 35 | 22 19 | 0 40 | 10 29 | 2 13 | 1 14 | 0 43 | 17 17 | 0 4 | 20 38 | 2 44 | 22 51 | 22 42 | 9 52 | 3 14 | 3 10 |
| S 5 | 16 12 | 2 45 | 4 24 | 6 12 | 2 39 | 1 30 | 1 14 | 24 25 | 1 35 | 22 18 | 0 40 | 10 31 | 2 13 | 1 13 | 0 43 | 17 16 | 0 4 | 20 38 | 2 44 | 22 51 | 22 43 | 9 54 | 3 16 | 3 10 |
| M 6 | 16 29 | 3s25 | 4 54 | 6 12 | 2 48 | 1 8 | 1 18 | 24 21 | 1 34 | 22 18 | 0 40 | 10 34 | 2 13 | 1 12 | 0 43 | 17 16 | 0 4 | 20 38 | 2 43 | 22 52 | 22 43 | 9 57 | 3 17 | 3 10 |
| T 7 | 16 46 | 9 30 | 5 5 | 6 15 | 2 55 | 0 46 | 1 21 | 24 17 | 1 34 | 22 17 | 0 40 | 10 36 | 2 13 | 1 11 | 0 43 | 17 16 | 0 4 | 20 38 | 2 43 | 22 52 | 22 43 | 10 0 | 3 18 | 3 11 |
| W 8 | 17 2 | 15 7 | 4 55 | 6 20 | 3 1 | 0 24 | 1 25 | 24 12 | 1 34 | 22 17 | 0 40 | 10 39 | 2 13 | 1 10 | 0 43 | 17 16 | 0 4 | 20 38 | 2 43 | 22 53 | 22 44 | 10 2 | 3 19 | 3 11 |
| T 9 | 17 19 | 19 47 | 4 25 | 6 27 | 3 7 | 0 1 | 1 28 | 24 8 | 1 33 | 22 16 | 0 40 | 10 41 | 2 13 | 1 9 | 0 43 | 17 16 | 0 4 | 20 38 | 2 43 | 22 54 | 22 44 | 10 5 | 3 20 | 3 11 |
| F 10 | 17 35 | 23 7 | 3 37 | 6 37 | 3 11 | 0n22 | 1 31 | 24 4 | 1 33 | 22 16 | 0 40 | 10 44 | 2 13 | 1 8 | 0 44 | 17 16 | 0 4 | 20 38 | 2 43 | 22 54 | 22 44 | 10 7 | 3 21 | 3 11 |
| S 11 | 17 50 | 24 50 | 2 35 | 6 48 | 3 15 | 0 44 | 1 35 | 23 59 | 1 33 | 22 15 | 0 40 | 10 46 | 2 13 | 1 7 | 0 44 | 17 16 | 0 4 | 20 38 | 2 43 | 22 55 | 22 45 | 10 10 | 3 23 | 3 11 |
| S 12 | 18 6 | 24 50 | 1 25 | 7 2 | 3 18 | 1 7 | 1 38 | 23 54 | 1 32 | 22 15 | 0 40 | 10 49 | 2 13 | 1 6 | 0 44 | 17 16 | 0 4 | 20 38 | 2 43 | 22 55 | 22 45 | 10 13 | 3 24 | 3 11 |
| M13 | 18 21 | 23 17 | 0 11 | 7 17 | 3 20 | 1 30 | 1 40 | 23 49 | 1 32 | 22 14 | 0 40 | 10 51 | 2 13 | 1 5 | 0 44 | 17 16 | 0 4 | 20 38 | 2 43 | 22 55 | 22 45 | 10 15 | 3 25 | 3 11 |
| T 14 | 18 35 | 20 28 | 1n 0 | 7 35 | 3 21 | 1 54 | 1 43 | 23 44 | 1 32 | 22 14 | 0 39 | 10 54 | 2 13 | 1 4 | 0 44 | 17 16 | 0 4 | 20 38 | 2 43 | 22 55 | 22 46 | 10 18 | 3 26 | 3 11 |
| W15 | 18 50 | 16 41 | 2 6 | 7 54 | 3 22 | 2 17 | 1 46 | 23 39 | 1 31 | 22 13 | 0 39 | 10 56 | 2 13 | 1 3 | 0 44 | 17 16 | 0 4 | 20 38 | 2 43 | 22 55 | 22 46 | 10 21 | 3 27 | 3 11 |
| T 16 | 19 4 | 12 16 | 3 5 | 8 14 | 3 22 | 2 40 | 1 48 | 23 33 | 1 31 | 22 13 | 0 39 | 10 58 | 2 14 | 1 2 | 0 44 | 17 16 | 0 4 | 20 38 | 2 42 | 22 55 | 22 46 | 10 23 | 3 28 | 3 11 |
| F 17 | 19 18 | 7 28 | 3 53 | 8 37 | 3 21 | 3 4 | 1 51 | 23 28 | 1 30 | 22 12 | 0 39 | 11 1 | 2 14 | 1 2 | 0 44 | 17 16 | 0 4 | 20 38 | 2 42 | 22 55 | 22 47 | 10 26 | 3 29 | 3 11 |
| S 18 | 19 31 | 2 28 | 4 30 | 9 1 | 3 19 | 3 27 | 1 53 | 23 22 | 1 30 | 22 12 | 0 39 | 11 3 | 2 14 | 1 1 | 0 44 | 17 16 | 0 4 | 20 38 | 2 42 | 22 55 | 22 47 | 10 28 | 3 30 | 3 11 |
| S 19 | 19 44 | 2n34 | 4 55 | 9 26 | 3 17 | 3 51 | 1 55 | 23 16 | 1 30 | 22 11 | 0 39 | 11 6 | 2 14 | 1 0 | 0 44 | 17 16 | 0 4 | 20 38 | 2 42 | 22 55 | 22 47 | 10 31 | 3 31 | 3 11 |
| M20 | 19 57 | 7 28 | 5 7 | 9 52 | 3 14 | 4 15 | 1 57 | 23 10 | 1 29 | 22 10 | 0 39 | 11 8 | 2 14 | 0 59 | 0 44 | 17 16 | 0 4 | 20 38 | 2 42 | 22 56 | 22 48 | 10 34 | 3 32 | 3 11 |
| T 21 | 20 9 | 12 6 | 5 6 | 10 20 | 3 10 | 4 38 | 1 59 | 23 4 | 1 29 | 22 10 | 0 39 | 11 10 | 2 14 | 0 58 | 0 44 | 17 16 | 0 4 | 20 38 | 2 42 | 22 57 | 22 48 | 10 36 | 3 33 | 3 11 |
| W22 | 20 21 | 16 18 | 4 52 | 10 49 | 3 6 | 5 2 | 2 1 | 22 58 | 1 29 | 22 9 | 0 39 | 11 13 | 2 14 | 0 57 | 0 44 | 17 17 | 0 4 | 20 39 | 2 42 | 22 57 | 22 48 | 10 39 | 3 34 | 3 12 |
| T 23 | 20 33 | 19 54 | 4 25 | 11 19 | 3 1 | 5 26 | 2 2 | 22 51 | 1 28 | 22 9 | 0 39 | 11 15 | 2 14 | 0 57 | 0 44 | 17 17 | 0 4 | 20 39 | 2 42 | 22 58 | 22 49 | 10 41 | 3 35 | 3 12 |
| F 24 | 20 45 | 22 40 | 3 45 | 11 50 | 2 56 | 5 50 | 2 4 | 22 45 | 1 28 | 22 8 | 0 39 | 11 17 | 2 14 | 0 56 | 0 44 | 17 17 | 0 4 | 20 39 | 2 42 | 22 58 | 22 49 | 10 44 | 3 36 | 3 12 |
| S 25 | 20 56 | 24 26 | 2 55 | 12 22 | 2 50 | 6 14 | 2 5 | 22 38 | 1 28 | 22 7 | 0 39 | 11 20 | 2 14 | 0 55 | 0 44 | 17 17 | 0 4 | 20 39 | 2 42 | 22 59 | 22 49 | 10 47 | 3 37 | 3 12 |
| S 26 | 21 6 | 25 0 | 1 56 | 12 55 | 2 43 | 6 37 | 2 7 | 22 31 | 1 27 | 22 7 | 0 39 | 11 22 | 2 14 | 0 54 | 0 44 | 17 17 | 0 4 | 20 39 | 2 41 | 22 59 | 22 50 | 10 49 | 3 38 | 3 12 |
| M27 | 21 17 | 24 17 | 0 49 | 13 29 | 2 36 | 7 1 | 2 8 | 22 24 | 1 27 | 22 6 | 0 38 | 11 24 | 2 14 | 0 54 | 0 44 | 17 17 | 0 4 | 20 39 | 2 41 | 22 59 | 22 50 | 10 52 | 3 39 | 3 12 |
| T 28 | 21 27 | 22 17 | 0s20 | 14 3 | 2 28 | 7 25 | 2 9 | 22 17 | 1 26 | 22 5 | 0 38 | 11 26 | 2 14 | 0 53 | 0 44 | 17 17 | 0 4 | 20 39 | 2 41 | 22 59 | 22 50 | 10 54 | 3 40 | 3 12 |
| W29 | 21 36 | 19 5 | 1 30 | 14 38 | 2 20 | 7 48 | 2 10 | 22 9 | 1 26 | 22 5 | 0 38 | 11 28 | 2 15 | 0 52 | 0 44 | 17 17 | 0 4 | 20 39 | 2 41 | 22 59 | 22 51 | 10 57 | 3 40 | 3 12 |
| T 30 | 21 46 | 14 51 | 2 37 | 15 13 | 2 12 | 8 12 | 2 11 | 22 2 | 1 26 | 22 4 | 0 38 | 11 31 | 2 15 | 0 52 | 0 44 | 17 17 | 0 4 | 20 39 | 2 41 | 22 59 | 22 51 | 11 0 | 3 41 | 3 12 |
| F 31 | 21n54 | 9n48 | 3s36 | 15n48 | 2s 3 | 8n36 | 2s12 | 21n54 | 1n25 | 22s 3 | 0n38 | 11n33 | 2s15 | 0s51 | 0s44 | 17s18 | 0s 4 | 20n39 | 2s41 | 22s59 | 22s51 | 11n 2 | 3n42 | 3n12 |

Julian Day Number = 2332961.5, Delta T = 26.41 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'30, Lahiri = 19°19'30Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## JUNE 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 38 2 | 10♊23'56 | 8♍52 | 21♉44 | 28♈44 | 29♋ 2 | 15°R18 | 6♉29 | 29♓35 | 11°R58 | 6♋25 | 11°R29 | 12♐52 | 16♈ 6 | 1♈56 | S 1 |
| S 2 | 16 41 59 | 11°21'20 | 22°58 | 23°29 | 29°52 | 29°38 | 15♐10 | 6°36 | 29°36 | 11♒58 | 6°26 | 11♐28 | 12°49 | 16°13 | 1°58 | S 2 |
| M 3 | 16 45 55 | 12°18'42 | 7♎20 | 25°16 | 1♉ 0 | 0♌14 | 15° 3 | 6°43 | 29°38 | 11°57 | 6°28 | 11°27 | 12°46 | 16°19 | 2° 0 | M 3 |
| T 4 | 16 49 52 | 13°16'03 | 21°54 | 27° 6 | 2° 8 | 0°50 | 14°55 | 6°49 | 29°39 | 11°56 | 6°29 | 11°24 | 12°43 | 16°26 | 2° 1 | T 4 |
| W 5 | 16 53 48 | 14°13'24 | 6♏35 | 28°58 | 3°16 | 1°26 | 14°48 | 6°56 | 29°41 | 11°56 | 6°31 | 11°20 | 12°40 | 16°33 | 2° 3 | W 5 |
| T 6 | 16 57 45 | 15°10'43 | 21°17 | 0♊53 | 4°24 | 2° 2 | 14°40 | 7° 3 | 29°42 | 11°55 | 6°32 | 11°17 | 12°36 | 16°39 | 2° 5 | T 6 |
| F 7 | 17 1 42 | 16° 8'02 | 5♐53 | 2°49 | 5°33 | 2°38 | 14°32 | 7° 9 | 29°44 | 11°54 | 6°33 | 11°13 | 12°33 | 16°46 | 2° 6 | F 7 |
| S 8 | 17 5 38 | 17° 5'19 | 20°16 | 4°48 | 6°41 | 3°14 | 14°25 | 7°16 | 29°45 | 11°54 | 6°35 | 11°11 | 12°30 | 16°53 | 2° 8 | S 8 |
| S 9 | 17 9 35 | 18° 2'37 | 4♑21 | 6°50 | 7°50 | 3°50 | 14°17 | 7°22 | 29°46 | 11°53 | 6°36 | 11°D10 | 12°27 | 17° 0 | 2° 9 | S 9 |
| M10 | 17 13 31 | 18°59'53 | 18° 4 | 8°53 | 8°58 | 4°26 | 14° 9 | 7°29 | 29°47 | 11°52 | 6°38 | 11°10 | 12°24 | 17° 6 | 2°10 | M10 |
| T 11 | 17 17 28 | 19°57'09 | 1♒24 | 10°58 | 10° 7 | 5° 2 | 14° 2 | 7°35 | 29°49 | 11°51 | 6°39 | 11°11 | 12°21 | 17°13 | 2°12 | T 11 |
| W12 | 17 21 24 | 20°54'25 | 14°21 | 13° 4 | 11°16 | 5°38 | 13°54 | 7°41 | 29°50 | 11°50 | 6°41 | 11°12 | 12°17 | 17°20 | 2°13 | W12 |
| T 13 | 17 25 21 | 21°51'40 | 26°57 | 15°13 | 12°25 | 6°14 | 13°47 | 7°48 | 29°51 | 11°50 | 6°42 | 11°14 | 12°14 | 17°26 | 2°14 | T 13 |
| F 14 | 17 29 18 | 22°48'55 | 9♓15 | 17°22 | 13°34 | 6°50 | 13°39 | 7°54 | 29°52 | 11°49 | 6°44 | 11°15 | 12°11 | 17°33 | 2°15 | F 14 |
| S 15 | 17 33 14 | 23°46'09 | 21°21 | 19°32 | 14°43 | 7°27 | 13°32 | 8° 0 | 29°53 | 11°48 | 6°45 | 11°R15 | 12° 8 | 17°40 | 2°17 | S 15 |
| S 16 | 17 37 11 | 24°43'24 | 3♈18 | 21°43 | 15°52 | 8° 3 | 13°24 | 8° 6 | 29°54 | 11°47 | 6°47 | 11°15 | 12° 5 | 17°47 | 2°18 | S 16 |
| M17 | 17 41 7 | 25°40'38 | 15°11 | 23°54 | 17° 1 | 8°39 | 13°17 | 8°12 | 29°55 | 11°46 | 6°48 | 11°14 | 12° 1 | 17°53 | 2°19 | M17 |
| T 18 | 17 45 4 | 26°37'52 | 27° 5 | 26° 6 | 18°10 | 9°16 | 13°10 | 8°18 | 29°56 | 11°45 | 6°50 | 11°13 | 11°58 | 18° 0 | 2°20 | T 18 |
| W19 | 17 49 0 | 27°35'06 | 9♉ 3 | 28°17 | 19°20 | 9°52 | 13° 2 | 8°24 | 29°56 | 11°44 | 6°51 | 11°11 | 11°55 | 18° 7 | 2°20 | W19 |
| T 20 | 17 52 57 | 28°32'20 | 21° 9 | 0♋28 | 20°29 | 10°28 | 12°55 | 8°30 | 29°57 | 11°43 | 6°53 | 11° 9 | 11°52 | 18°14 | 2°21 | T 20 |
| F 21 | 17 56 53 | 29°29'34 | 3♊25 | 2°39 | 21°39 | 11° 5 | 12°48 | 8°36 | 29°58 | 11°42 | 6°54 | 11° 7 | 11°49 | 18°20 | 2°22 | F 21 |
| S 22 | 18 0 50 | 0♋26'48 | 15°55 | 4°48 | 22°48 | 11°41 | 12°41 | 8°42 | 29°58 | 11°40 | 6°56 | 11° 6 | 11°46 | 18°27 | 2°23 | S 22 |
| S 23 | 18 4 47 | 1°24'02 | 28°38 | 6°57 | 23°58 | 12°18 | 12°34 | 8°47 | 29°59 | 11°39 | 6°57 | 11° 5 | 11°42 | 18°34 | 2°24 | S 23 |
| M24 | 18 8 43 | 2°21'15 | 11♋36 | 9° 4 | 25° 8 | 12°54 | 12°27 | 8°53 | 29°59 | 11°38 | 6°59 | 11°D 5 | 11°39 | 18°40 | 2°24 | M24 |
| T 25 | 18 12 40 | 3°18'28 | 24°49 | 11° 9 | 26°17 | 13°31 | 12°21 | 8°59 | 0♈ 0 | 11°37 | 7° 0 | 11° 5 | 11°36 | 18°47 | 2°25 | T 25 |
| W26 | 18 16 36 | 4°15'41 | 8♌15 | 13°14 | 27°27 | 14° 8 | 12°14 | 9° 4 | 0° 1 | 11°36 | 7° 2 | 11° 6 | 11°33 | 18°54 | 2°25 | W26 |
| T 27 | 18 20 33 | 5°12'53 | 21°54 | 15°16 | 28°37 | 14°44 | 12° 7 | 9°10 | 0° 1 | 11°35 | 7° 3 | 11° 7 | 11°30 | 19° 1 | 2°26 | T 27 |
| F 28 | 18 24 29 | 6°10'06 | 5♍44 | 17°17 | 29°47 | 15°21 | 12° 1 | 9°15 | 0° 1 | 11°33 | 7° 5 | 11° 7 | 11°27 | 19° 7 | 2°26 | F 28 |
| S 29 | 18 28 26 | 7° 7'18 | 19°45 | 19°15 | 0♊57 | 15°58 | 11°55 | 9°20 | 0° 2 | 11°32 | 7° 6 | 11° 7 | 11°23 | 19°14 | 2°27 | S 29 |
| S 30 | 18 32 22 | 8♋ 4'29 | 3♎53 | 21♋12 | 2♊ 8 | 16♌34 | 11♐48 | 9♉25 | 0♈ 2 | 11♒31 | 7♋ 8 | 11°R 7 | 11♐20 | 19♈21 | 2♈27 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 3 | 4n11 | 4s24 | 16n24 | 1s54 | 8n59 | 2s12 | 21n46 | 1n25 | 22s 3 | 0n38 | 11n35 | 2s15 | 0s51 | 0s44 | 17s18 | 0s 4 | 20n39 | 2s41 | 22s59 | 22s51 | 11n 5 | 3n43 | 3n12 |
| S 2 | 22 11 | 1s45 | 4 57 | 17 0 | 1 44 | 9 22 | 2 13 | 21 39 | 1 25 | 22 2 | 0 38 | 11 37 | 2 15 | 0 50 | 0 44 | 17 18 | 0 4 | 20 39 | 2 41 | 22 59 | 22 52 | 11 7 | 3 44 | 3 13 |
| M 3 | 22 19 | 7 41 | 5 12 | 17 36 | 1 34 | 9 46 | 2 13 | 21 30 | 1 24 | 22 1 | 0 38 | 11 39 | 2 15 | 0 49 | 0 44 | 17 18 | 0 4 | 20 39 | 2 41 | 22 59 | 22 52 | 11 10 | 3 44 | 3 13 |
| T 4 | 22 26 | 13 18 | 5 8 | 18 11 | 1 24 | 10 9 | 2 14 | 21 22 | 1 24 | 22 0 | 0 38 | 11 41 | 2 15 | 0 49 | 0 44 | 17 18 | 0 4 | 20 39 | 2 41 | 23 0 | 22 52 | 11 12 | 3 45 | 3 13 |
| W 5 | 22 33 | 18 11 | 4 43 | 18 47 | 1 13 | 10 32 | 2 14 | 21 14 | 1 23 | 22 0 | 0 37 | 11 43 | 2 15 | 0 48 | 0 44 | 17 18 | 0 4 | 20 39 | 2 41 | 23 0 | 22 53 | 11 15 | 3 46 | 3 13 |
| T 6 | 22 39 | 21 58 | 4 0 | 19 21 | 1 2 | 10 55 | 2 14 | 21 5 | 1 23 | 21 59 | 0 37 | 11 45 | 2 15 | 0 48 | 0 44 | 17 19 | 0 4 | 20 39 | 2 41 | 23 0 | 22 53 | 11 18 | 3 47 | 3 13 |
| F 7 | 22 46 | 24 18 | 3 2 | 19 55 | 0 51 | 11 17 | 2 14 | 20 57 | 1 23 | 21 58 | 0 37 | 11 47 | 2 15 | 0 47 | 0 44 | 17 19 | 0 4 | 20 39 | 2 40 | 23 0 | 22 53 | 11 20 | 3 47 | 3 13 |
| S 8 | 22 51 | 24 59 | 1 52 | 20 29 | 0 40 | 11 40 | 2 14 | 20 48 | 1 22 | 21 57 | 0 37 | 11 49 | 2 16 | 0 47 | 0 44 | 17 19 | 0 4 | 20 39 | 2 40 | 23 1 | 22 54 | 11 23 | 3 48 | 3 13 |
| S 9 | 22 57 | 24 2 | 0 37 | 21 1 | 0 29 | 12 2 | 2 14 | 20 39 | 1 22 | 21 57 | 0 37 | 11 51 | 2 16 | 0 46 | 0 44 | 17 19 | 0 4 | 20 39 | 2 40 | 23 1 | 22 54 | 11 25 | 3 49 | 3 13 |
| M10 | 23 2 | 21 38 | 0n38 | 21 32 | 0 18 | 12 24 | 2 13 | 20 30 | 1 21 | 21 56 | 0 37 | 11 53 | 2 16 | 0 46 | 0 44 | 17 20 | 0 4 | 20 39 | 2 40 | 23 1 | 22 54 | 11 28 | 3 49 | 3 13 |
| T 11 | 23 6 | 18 7 | 1 49 | 22 1 | 0 7 | 12 46 | 2 13 | 20 21 | 1 21 | 21 55 | 0 37 | 11 55 | 2 16 | 0 45 | 0 44 | 17 20 | 0 4 | 20 39 | 2 40 | 23 1 | 22 54 | 11 30 | 3 50 | 3 13 |
| W12 | 23 10 | 13 48 | 2 53 | 22 29 | 0n 4 | 13 8 | 2 13 | 20 12 | 1 21 | 21 54 | 0 36 | 11 57 | 2 16 | 0 45 | 0 44 | 17 20 | 0 4 | 20 39 | 2 40 | 23 0 | 22 55 | 11 33 | 3 51 | 3 14 |
| T 13 | 23 14 | 9 1 | 3 46 | 22 54 | 0 15 | 13 30 | 2 12 | 20 3 | 1 20 | 21 54 | 0 36 | 11 59 | 2 16 | 0 45 | 0 45 | 17 20 | 0 4 | 20 39 | 2 40 | 23 0 | 22 55 | 11 35 | 3 51 | 3 14 |
| F 14 | 23 17 | 3 59 | 4 28 | 23 18 | 0 25 | 13 51 | 2 11 | 19 53 | 1 20 | 21 53 | 0 36 | 12 1 | 2 16 | 0 44 | 0 45 | 17 21 | 0 4 | 20 39 | 2 40 | 23 0 | 22 55 | 11 38 | 3 52 | 3 14 |
| S 15 | 23 20 | 1n 7 | 4 57 | 23 39 | 0 35 | 14 12 | 2 11 | 19 43 | 1 19 | 21 52 | 0 36 | 12 3 | 2 17 | 0 44 | 0 45 | 17 21 | 0 4 | 20 39 | 2 40 | 23 0 | 22 56 | 11 40 | 3 52 | 3 14 |
| S 16 | 23 23 | 6 5 | 5 12 | 23 58 | 0 45 | 14 33 | 2 10 | 19 34 | 1 19 | 21 51 | 0 36 | 12 5 | 2 17 | 0 43 | 0 45 | 17 21 | 0 4 | 20 39 | 2 40 | 23 0 | 22 56 | 11 43 | 3 53 | 3 14 |
| M17 | 23 25 | 10 49 | 5 15 | 24 15 | 0 54 | 14 53 | 2 9 | 19 24 | 1 19 | 21 51 | 0 36 | 12 6 | 2 17 | 0 43 | 0 45 | 17 21 | 0 4 | 20 39 | 2 40 | 23 0 | 22 56 | 11 45 | 3 53 | 3 14 |
| T 18 | 23 26 | 15 10 | 5 4 | 24 28 | 1 3 | 15 13 | 2 8 | 19 14 | 1 18 | 21 50 | 0 36 | 12 8 | 2 17 | 0 43 | 0 45 | 17 22 | 0 4 | 20 39 | 2 40 | 23 0 | 22 56 | 11 48 | 3 54 | 3 14 |
| W19 | 23 28 | 18 56 | 4 39 | 24 39 | 1 11 | 15 33 | 2 7 | 19 4 | 1 18 | 21 49 | 0 35 | 12 10 | 2 17 | 0 42 | 0 45 | 17 22 | 0 4 | 20 39 | 2 40 | 23 1 | 22 57 | 11 50 | 3 54 | 3 14 |
| T 20 | 23 28 | 21 58 | 4 2 | 24 47 | 1 18 | 15 53 | 2 6 | 18 53 | 1 18 | 21 48 | 0 35 | 12 12 | 2 17 | 0 42 | 0 45 | 17 22 | 0 4 | 20 39 | 2 40 | 23 1 | 22 57 | 11 53 | 3 55 | 3 14 |
| F 21 | 23 29 | 24 2 | 3 13 | 24 52 | 1 25 | 16 12 | 2 5 | 18 43 | 1 17 | 21 48 | 0 35 | 12 13 | 2 17 | 0 42 | 0 45 | 17 23 | 0 4 | 20 39 | 2 39 | 23 1 | 22 57 | 11 55 | 3 55 | 3 15 |
| S 22 | 23 29 | 24 58 | 2 15 | 24 55 | 1 31 | 16 31 | 2 3 | 18 32 | 1 17 | 21 47 | 0 35 | 12 15 | 2 18 | 0 42 | 0 45 | 17 23 | 0 4 | 20 39 | 2 39 | 23 1 | 22 58 | 11 58 | 3 55 | 3 15 |
| S 23 | 23 28 | 24 37 | 1 8 | 24 54 | 1 37 | 16 50 | 2 2 | 18 22 | 1 16 | 21 46 | 0 35 | 12 17 | 2 18 | 0 42 | 0 45 | 17 23 | 0 4 | 20 39 | 2 39 | 23 1 | 22 58 | 12 0 | 3 56 | 3 15 |
| M24 | 23 28 | 22 56 | 0s 3 | 24 51 | 1 41 | 17 8 | 2 0 | 18 11 | 1 16 | 21 45 | 0 35 | 12 18 | 2 18 | 0 41 | 0 45 | 17 24 | 0 4 | 20 39 | 2 39 | 23 1 | 22 58 | 12 3 | 3 56 | 3 15 |
| T 25 | 23 26 | 19 58 | 1 15 | 24 45 | 1 45 | 17 26 | 1 59 | 18 0 | 1 16 | 21 45 | 0 34 | 12 20 | 2 18 | 0 41 | 0 45 | 17 24 | 0 4 | 20 39 | 2 39 | 23 1 | 22 58 | 12 5 | 3 57 | 3 15 |
| W26 | 23 25 | 15 54 | 2 25 | 24 37 | 1 48 | 17 43 | 1 57 | 17 49 | 1 15 | 21 44 | 0 34 | 12 22 | 2 18 | 0 41 | 0 45 | 17 24 | 0 4 | 20 39 | 2 39 | 23 1 | 22 59 | 12 8 | 3 57 | 3 15 |
| T 27 | 23 23 | 10 58 | 3 27 | 24 26 | 1 51 | 18 1 | 1 56 | 17 38 | 1 15 | 21 43 | 0 34 | 12 23 | 2 18 | 0 41 | 0 45 | 17 25 | 0 4 | 20 39 | 2 39 | 23 1 | 22 59 | 12 10 | 3 57 | 3 15 |
| F 28 | 23 20 | 5 25 | 4 19 | 24 13 | 1 52 | 18 17 | 1 54 | 17 27 | 1 14 | 21 43 | 0 34 | 12 25 | 2 19 | 0 41 | 0 45 | 17 25 | 0 4 | 20 39 | 2 39 | 23 1 | 22 59 | 12 13 | 3 57 | 3 15 |
| S 29 | 23 17 | 0s27 | 4 55 | 23 58 | 1 53 | 18 34 | 1 52 | 17 15 | 1 14 | 21 42 | 0 34 | 12 26 | 2 19 | 0 41 | 0 45 | 17 25 | 0 4 | 20 39 | 2 39 | 23 1 | 23 0 | 12 15 | 3 58 | 3 16 |
| S 30 | 23n14 | 6s21 | 5s14 | 23n40 | 1n53 | 18n49 | 1s50 | 17n 4 | 1n13 | 21s41 | 0n34 | 12n28 | 2s19 | 0s41 | 0s45 | 17s26 | 0s 4 | 20n39 | 2s39 | 23s 1 | 23s 0 | 12n18 | 3n58 | 3n16 |

Julian Day Number = 2332992.5, Delta T = 26.36 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'34, Lahiri = 19°19'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## JULY 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 36 19 | 9♋ 1'40 | 18♎ 8 | 23♋ 7 | 3♊18 | 17♌11 | 11°R42 | 9♉31 | 0♈ 2 | 11°R30 | 7♋ 9 | 11°R 7 | 11♑17 | 19♈28 | 2♈27 | M 1 |
| T 2 | 18 40 16 | 9°58'51 | 2♏26 | 25° 1 | 4°28 | 17°48 | 11♐36 | 9°36 | 0° 2 | 11♒28 | 7°11 | 11♑ 7 | 11°14 | 19°34 | 2°27 | T 2 |
| W 3 | 18 44 12 | 10°56'02 | 16°44 | 26°52 | 5°38 | 18°25 | 11°30 | 9°41 | 0° 2 | 11°27 | 7°12 | 11°D 7 | 11°11 | 19°41 | 2°28 | W 3 |
| T 4 | 18 48 9 | 11°53'13 | 0♐59 | 28°41 | 6°49 | 19° 1 | 11°25 | 9°46 | 0° 3 | 11°26 | 7°14 | 11° 7 | 11° 7 | 19°48 | 2°28 | T 4 |
| F 5 | 18 52 5 | 12°50'24 | 15° 7 | 0♌28 | 7°59 | 19°38 | 11°19 | 9°50 | 0°R 3 | 11°24 | 7°15 | 11° 7 | 11° 4 | 19°54 | 2°28 | F 5 |
| S 6 | 18 56 2 | 13°47'35 | 29° 5 | 2°13 | 9°10 | 20°15 | 11°14 | 9°55 | 0° 3 | 11°23 | 7°17 | 11° 8 | 11° 1 | 20° 1 | 2°R28 | S 6 |
| S 7 | 18 59 58 | 14°44'46 | 12♑49 | 3°56 | 10°20 | 20°52 | 11° 8 | 10° 0 | 0° 3 | 11°21 | 7°18 | 11°R 8 | 10°58 | 20° 8 | 2°28 | S 7 |
| M 8 | 19 3 55 | 15°41'57 | 26°17 | 5°37 | 11°31 | 21°29 | 11° 3 | 10° 4 | 0° 2 | 11°20 | 7°20 | 11° 8 | 10°55 | 20°15 | 2°28 | M 8 |
| T 9 | 19 7 52 | 16°39'09 | 9♒26 | 7°17 | 12°42 | 22° 6 | 10°58 | 10° 9 | 0° 2 | 11°19 | 7°21 | 11° 7 | 10°52 | 20°21 | 2°27 | T 9 |
| W10 | 19 11 48 | 17°36'20 | 22°18 | 8°54 | 13°53 | 22°43 | 10°53 | 10°13 | 0° 2 | 11°17 | 7°23 | 11° 6 | 10°48 | 20°28 | 2°27 | W10 |
| T 11 | 19 15 45 | 18°33'33 | 4♓52 | 10°29 | 15° 3 | 23°20 | 10°49 | 10°18 | 0° 2 | 11°16 | 7°24 | 11° 6 | 10°45 | 20°35 | 2°27 | T 11 |
| F 12 | 19 19 41 | 19°30'46 | 17°11 | 12° 2 | 16°14 | 23°57 | 10°44 | 10°22 | 0° 1 | 11°14 | 7°26 | 11° 5 | 10°42 | 20°41 | 2°27 | F 12 |
| S 13 | 19 23 38 | 20°27'59 | 29°17 | 13°34 | 17°25 | 24°34 | 10°40 | 10°26 | 0° 1 | 11°13 | 7°27 | 11° 4 | 10°39 | 20°48 | 2°26 | S 13 |
| S 14 | 19 27 34 | 21°25'13 | 11♈15 | 15° 3 | 18°36 | 25°11 | 10°35 | 10°30 | 0° 1 | 11°11 | 7°29 | 11° 3 | 10°36 | 20°55 | 2°26 | S 14 |
| M15 | 19 31 31 | 22°22'28 | 23° 9 | 16°30 | 19°47 | 25°48 | 10°31 | 10°34 | 0° 0 | 11°10 | 7°30 | 11°D 3 | 10°33 | 21° 2 | 2°25 | M15 |
| T 16 | 19 35 27 | 23°19'44 | 5♉ 3 | 17°55 | 20°59 | 26°25 | 10°27 | 10°38 | 29♓59 | 11° 8 | 7°32 | 11° 3 | 10°29 | 21° 8 | 2°25 | T 16 |
| W17 | 19 39 24 | 24°17'00 | 17° 2 | 19°19 | 22°10 | 27° 3 | 10°24 | 10°42 | 29°59 | 11° 7 | 7°33 | 11° 4 | 10°26 | 21°15 | 2°24 | W17 |
| T 18 | 19 43 20 | 25°14'18 | 29°10 | 20°40 | 23°21 | 27°40 | 10°20 | 10°46 | 29°59 | 11° 5 | 7°35 | 11° 5 | 10°23 | 21°22 | 2°24 | T 18 |
| F 19 | 19 47 17 | 26°11'36 | 11♊32 | 21°58 | 24°33 | 28°17 | 10°16 | 10°50 | 29°58 | 11° 4 | 7°36 | 11° 6 | 10°20 | 21°29 | 2°23 | F 19 |
| S 20 | 19 51 14 | 27° 8'55 | 24°10 | 23°15 | 25°44 | 28°54 | 10°13 | 10°53 | 29°57 | 11° 2 | 7°37 | 11° 7 | 10°17 | 21°35 | 2°22 | S 20 |
| S 21 | 19 55 10 | 28° 6'15 | 7♋ 7 | 24°29 | 26°55 | 29°32 | 10°10 | 10°57 | 29°57 | 11° 0 | 7°39 | 11°R 8 | 10°13 | 21°42 | 2°21 | S 21 |
| M22 | 19 59 7 | 29° 3'36 | 20°23 | 25°41 | 28° 7 | 0♍ 9 | 10° 7 | 11° 0 | 29°56 | 10°59 | 7°40 | 11° 8 | 10°10 | 21°49 | 2°21 | M22 |
| T 23 | 20 3 3 | 0♌ 0'57 | 3♌58 | 26°51 | 29°19 | 0°46 | 10° 4 | 11° 4 | 29°55 | 10°57 | 7°42 | 11° 7 | 10° 7 | 21°55 | 2°20 | T 23 |
| W24 | 20 7 0 | 0°58'19 | 17°51 | 27°58 | 0♋30 | 1°24 | 10° 2 | 11° 7 | 29°54 | 10°56 | 7°43 | 11° 5 | 10° 4 | 22° 2 | 2°19 | W24 |
| T 25 | 20 10 56 | 1°55'42 | 1♍57 | 29° 3 | 1°42 | 2° 1 | 10° 0 | 11°10 | 29°53 | 10°54 | 7°45 | 11° 2 | 10° 1 | 22° 9 | 2°18 | T 25 |
| F 26 | 20 14 53 | 2°53'05 | 16°13 | 0♍ 5 | 2°54 | 2°39 | 9°57 | 11°13 | 29°52 | 10°52 | 7°46 | 10°59 | 9°58 | 22°16 | 2°17 | F 26 |
| S 27 | 20 18 50 | 3°50'29 | 0♎34 | 1° 4 | 4° 5 | 3°16 | 9°55 | 11°16 | 29°51 | 10°51 | 7°47 | 10°57 | 9°54 | 22°22 | 2°16 | S 27 |
| S 28 | 20 22 46 | 4°47'54 | 14°55 | 2° 1 | 5°17 | 3°54 | 9°53 | 11°19 | 29°50 | 10°49 | 7°49 | 10°55 | 9°51 | 22°29 | 2°14 | S 28 |
| M29 | 20 26 43 | 5°45'19 | 29°13 | 2°54 | 6°29 | 4°31 | 9°52 | 11°22 | 29°49 | 10°48 | 7°50 | 10°D53 | 9°48 | 22°36 | 2°13 | M29 |
| T 30 | 20 30 39 | 6°42'45 | 13♏24 | 3°44 | 7°41 | 5° 9 | 9°50 | 11°24 | 29°48 | 10°46 | 7°51 | 10°53 | 9°45 | 22°42 | 2°12 | T 30 |
| W31 | 20 34 36 | 7♌40'12 | 27♏27 | 4♍31 | 8♋53 | 5♍47 | 9♐49 | 11♉27 | 29♓47 | 10♒44 | 7♋53 | 10♑54 | 9♑42 | 22♈49 | 2♈11 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23n10 | 11s58 | 5s14 | 23n21 | 1n53 | 19n 5 | 1s48 | 16n52 | 1n13 | 21s41 | 0n33 | 12n29 | 2s19 | 0s41 | 0s45 | 17s26 | 0s 4 | 20n39 | 2s39 | 23s 1 | 23s 0 | 12n20 | 3n58 | 3n16 |
| T 2 | 23 6 | 16 57 | 4 55 | 23 0 | 1 52 | 19 20 | 1 46 | 16 41 | 1 13 | 21 40 | 0 33 | 12 31 | 2 19 | 0 41 | 0 45 | 17 26 | 0 4 | 20 39 | 2 39 | 23 1 | 23 0 | 12 23 | 3 58 | 3 16 |
| W 3 | 23 2 | 20 59 | 4 18 | 22 37 | 1 50 | 19 34 | 1 44 | 16 29 | 1 12 | 21 39 | 0 33 | 12 32 | 2 19 | 0 40 | 0 45 | 17 27 | 0 4 | 20 39 | 2 39 | 23 1 | 23 1 | 12 25 | 3 59 | 3 16 |
| T 4 | 22 57 | 23 44 | 3 25 | 22 13 | 1 48 | 19 49 | 1 42 | 16 17 | 1 12 | 21 39 | 0 33 | 12 33 | 2 20 | 0 40 | 0 45 | 17 27 | 0 4 | 20 39 | 2 39 | 23 1 | 23 1 | 12 28 | 3 59 | 3 16 |
| F 5 | 22 52 | 24 57 | 2 19 | 21 47 | 1 45 | 20 2 | 1 40 | 16 5 | 1 11 | 21 38 | 0 33 | 12 35 | 2 20 | 0 41 | 0 45 | 17 28 | 0 4 | 20 39 | 2 39 | 23 1 | 23 1 | 12 30 | 3 59 | 3 16 |
| S 6 | 22 46 | 24 35 | 1 6 | 21 21 | 1 41 | 20 15 | 1 38 | 15 53 | 1 11 | 21 38 | 0 32 | 12 36 | 2 20 | 0 41 | 0 45 | 17 28 | 0 4 | 20 38 | 2 39 | 23 1 | 23 1 | 12 32 | 3 59 | 3 16 |
| S 7 | 22 40 | 22 42 | 0n 9 | 20 53 | 1 37 | 20 28 | 1 35 | 15 41 | 1 11 | 21 37 | 0 32 | 12 37 | 2 20 | 0 41 | 0 45 | 17 28 | 0 4 | 20 38 | 2 39 | 23 1 | 23 2 | 12 35 | 3 59 | 3 16 |
| M 8 | 22 33 | 19 34 | 1 23 | 20 23 | 1 32 | 20 40 | 1 33 | 15 29 | 1 10 | 21 37 | 0 32 | 12 39 | 2 20 | 0 41 | 0 45 | 17 29 | 0 4 | 20 38 | 2 39 | 23 1 | 23 2 | 12 37 | 3 59 | 3 17 |
| T 9 | 22 27 | 15 30 | 2 30 | 19 53 | 1 27 | 20 52 | 1 31 | 15 16 | 1 10 | 21 36 | 0 32 | 12 40 | 2 21 | 0 41 | 0 45 | 17 29 | 0 4 | 20 38 | 2 38 | 23 1 | 23 2 | 12 40 | 3 59 | 3 17 |
| W10 | 22 19 | 10 49 | 3 29 | 19 23 | 1 22 | 21 3 | 1 28 | 15 4 | 1 9 | 21 36 | 0 32 | 12 41 | 2 21 | 0 41 | 0 45 | 17 30 | 0 4 | 20 38 | 2 38 | 23 1 | 23 2 | 12 42 | 3 59 | 3 17 |
| T 11 | 22 12 | 5 47 | 4 15 | 18 51 | 1 15 | 21 13 | 1 26 | 14 51 | 1 9 | 21 35 | 0 32 | 12 42 | 2 21 | 0 41 | 0 46 | 17 30 | 0 4 | 20 38 | 2 38 | 23 1 | 23 3 | 12 45 | 3 59 | 3 17 |
| F 12 | 22 4 | 0 38 | 4 49 | 18 19 | 1 9 | 21 23 | 1 23 | 14 38 | 1 9 | 21 35 | 0 31 | 12 43 | 2 21 | 0 41 | 0 46 | 17 30 | 0 4 | 20 38 | 2 38 | 23 1 | 23 3 | 12 47 | 3 59 | 3 17 |
| S 13 | 21 55 | 4n27 | 5 10 | 17 46 | 1 2 | 21 33 | 1 21 | 14 26 | 1 8 | 21 34 | 0 31 | 12 44 | 2 21 | 0 41 | 0 46 | 17 31 | 0 5 | 20 38 | 2 38 | 23 1 | 23 3 | 12 49 | 3 59 | 3 17 |
| S 14 | 21 46 | 9 18 | 5 16 | 17 13 | 0 54 | 21 41 | 1 18 | 14 13 | 1 8 | 21 34 | 0 31 | 12 45 | 2 22 | 0 42 | 0 46 | 17 31 | 0 5 | 20 38 | 2 38 | 23 1 | 23 3 | 12 52 | 3 59 | 3 17 |
| M15 | 21 37 | 13 48 | 5 9 | 16 39 | 0 46 | 21 50 | 1 16 | 14 0 | 1 7 | 21 33 | 0 31 | 12 47 | 2 22 | 0 42 | 0 46 | 17 32 | 0 5 | 20 38 | 2 38 | 23 1 | 23 4 | 12 54 | 3 59 | 3 17 |
| T 16 | 21 28 | 17 46 | 4 49 | 16 5 | 0 38 | 21 57 | 1 13 | 13 47 | 1 7 | 21 33 | 0 31 | 12 48 | 2 22 | 0 42 | 0 46 | 17 32 | 0 5 | 20 38 | 2 38 | 23 1 | 23 4 | 12 57 | 3 59 | 3 17 |
| W17 | 21 18 | 21 3 | 4 16 | 15 31 | 0 29 | 22 5 | 1 10 | 13 34 | 1 6 | 21 33 | 0 30 | 12 49 | 2 22 | 0 42 | 0 46 | 17 33 | 0 5 | 20 38 | 2 38 | 23 1 | 23 4 | 12 59 | 3 59 | 3 18 |
| T 18 | 21 8 | 23 27 | 3 32 | 14 57 | 0 20 | 22 11 | 1 8 | 13 20 | 1 6 | 21 32 | 0 30 | 12 49 | 2 22 | 0 43 | 0 46 | 17 33 | 0 5 | 20 38 | 2 38 | 23 1 | 23 4 | 13 1 | 3 58 | 3 18 |
| F 19 | 20 57 | 24 47 | 2 36 | 14 23 | 0 11 | 22 17 | 1 5 | 13 7 | 1 6 | 21 32 | 0 30 | 12 50 | 2 23 | 0 43 | 0 46 | 17 33 | 0 5 | 20 38 | 2 38 | 23 1 | 23 5 | 13 4 | 3 58 | 3 18 |
| S 20 | 20 46 | 24 53 | 1 32 | 13 49 | 0 1 | 22 22 | 1 2 | 12 54 | 1 5 | 21 32 | 0 30 | 12 51 | 2 23 | 0 43 | 0 46 | 17 34 | 0 5 | 20 38 | 2 38 | 23 1 | 23 5 | 13 6 | 3 58 | 3 18 |
| S 21 | 20 35 | 23 40 | 0 22 | 13 15 | 0s 9 | 22 27 | 1 0 | 12 40 | 1 5 | 21 32 | 0 30 | 12 52 | 2 23 | 0 43 | 0 46 | 17 34 | 0 5 | 20 38 | 2 38 | 23 1 | 23 5 | 13 9 | 3 58 | 3 18 |
| M22 | 20 23 | 21 6 | 0s51 | 12 41 | 0 19 | 22 31 | 0 57 | 12 26 | 1 4 | 21 31 | 0 29 | 12 53 | 2 23 | 0 44 | 0 46 | 17 35 | 0 5 | 20 38 | 2 38 | 23 1 | 23 5 | 13 11 | 3 58 | 3 18 |
| T 23 | 20 11 | 17 19 | 2 3 | 12 7 | 0 29 | 22 35 | 0 54 | 12 13 | 1 4 | 21 31 | 0 29 | 12 54 | 2 24 | 0 44 | 0 46 | 17 35 | 0 5 | 20 38 | 2 38 | 23 1 | 23 6 | 13 13 | 3 57 | 3 18 |
| W24 | 19 59 | 12 31 | 3 9 | 11 34 | 0 40 | 22 38 | 0 51 | 11 59 | 1 3 | 21 31 | 0 29 | 12 55 | 2 24 | 0 44 | 0 46 | 17 36 | 0 5 | 20 38 | 2 38 | 23 1 | 23 6 | 13 16 | 3 57 | 3 18 |
| T 25 | 19 46 | 7 0 | 4 4 | 11 1 | 0 51 | 22 40 | 0 48 | 11 45 | 1 3 | 21 31 | 0 29 | 12 55 | 2 24 | 0 45 | 0 46 | 17 36 | 0 5 | 20 38 | 2 38 | 23 1 | 23 6 | 13 18 | 3 57 | 3 18 |
| F 26 | 19 33 | 1 4 | 4 45 | 10 29 | 1 2 | 22 42 | 0 45 | 11 31 | 1 3 | 21 31 | 0 29 | 12 56 | 2 24 | 0 45 | 0 46 | 17 37 | 0 5 | 20 38 | 2 38 | 23 2 | 23 6 | 13 20 | 3 56 | 3 18 |
| S 27 | 19 20 | 4s57 | 5 9 | 9 58 | 1 14 | 22 42 | 0 43 | 11 17 | 1 2 | 21 31 | 0 28 | 12 57 | 2 24 | 0 46 | 0 46 | 17 37 | 0 5 | 20 38 | 2 38 | 23 2 | 23 7 | 13 23 | 3 56 | 3 19 |
| S 28 | 19 6 | 10 42 | 5 13 | 9 27 | 1 25 | 22 43 | 0 40 | 11 3 | 1 2 | 21 30 | 0 28 | 12 57 | 2 25 | 0 46 | 0 46 | 17 38 | 0 5 | 20 38 | 2 38 | 23 2 | 23 7 | 13 25 | 3 56 | 3 19 |
| M29 | 18 52 | 15 51 | 4 58 | 8 57 | 1 37 | 22 43 | 0 37 | 10 49 | 1 1 | 21 30 | 0 28 | 12 58 | 2 25 | 0 47 | 0 46 | 17 38 | 0 5 | 20 38 | 2 38 | 23 2 | 23 7 | 13 28 | 3 55 | 3 19 |
| T 30 | 18 38 | 20 6 | 4 25 | 8 28 | 1 49 | 22 42 | 0 34 | 10 35 | 1 1 | 21 30 | 0 28 | 12 59 | 2 25 | 0 47 | 0 46 | 17 38 | 0 5 | 20 37 | 2 38 | 23 2 | 23 7 | 13 30 | 3 55 | 3 19 |
| W31 | 18n23 | 23s 8 | 3s36 | 8n 0 | 2s 1 | 22n40 | 0s31 | 10n21 | 1n 0 | 21s30 | 0n28 | 12n59 | 2s25 | 0s48 | 0s46 | 17s39 | 0s 5 | 20n37 | 2s38 | 23s 2 | 23s 8 | 13n32 | 3n54 | 3n19 |

Julian Day Number = 2333022.5, Delta T = 26.31 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'38, Lahiri = 19°19'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## AUGUST 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 38 32 | 8♌37'39 | 11♐20 | 5♍15 | 10♋ 5 | 6♍24 | 9°R48 | 11♉29 | 29°R46 | 10°R43 | 7♋54 | 10♏56 | 9♏39 | 22♈56 | 2°R 9 | T 1 |
| F 2 | 20 42 29 | 9°35'07 | 25° 3 | 5°54 | 11°17 | 7° 2 | 9♐47 | 11°32 | 29♓44 | 10♒41 | 7°55 | 10°57 | 9°35 | 23° 3 | 2♈ 8 | F 2 |
| S 3 | 20 46 25 | 10°32'36 | 8♏34 | 6°30 | 12°29 | 7°40 | 9°46 | 11°34 | 29°43 | 10°39 | 7°57 | 10°R58 | 9°32 | 23° 9 | 2° 6 | S 3 |
| S 4 | 20 50 22 | 11°30'06 | 21°53 | 7° 2 | 13°42 | 8°18 | 9°46 | 11°36 | 29°42 | 10°38 | 7°58 | 10°58 | 9°29 | 23°16 | 2° 5 | S 4 |
| M 5 | 20 54 19 | 12°27'37 | 5♒ 0 | 7°30 | 14°54 | 8°55 | 9°45 | 11°38 | 29°40 | 10°36 | 7°59 | 10°56 | 9°26 | 23°23 | 2° 3 | M 5 |
| T 6 | 20 58 15 | 13°25'09 | 17°53 | 7°53 | 16° 6 | 9°33 | 9°D45 | 11°40 | 29°39 | 10°35 | 8° 1 | 10°52 | 9°23 | 23°29 | 2° 2 | T 6 |
| W 7 | 21 2 12 | 14°22'42 | 0♓33 | 8°12 | 17°19 | 10°11 | 9°45 | 11°42 | 29°37 | 10°33 | 8° 2 | 10°47 | 9°19 | 23°36 | 2° 0 | W 7 |
| T 8 | 21 6 8 | 15°20'16 | 12°59 | 8°26 | 18°31 | 10°49 | 9°45 | 11°44 | 29°36 | 10°31 | 8° 3 | 10°41 | 9°16 | 23°43 | 1°59 | T 8 |
| F 9 | 21 10 5 | 16°17'51 | 25°14 | 8°34 | 19°44 | 11°27 | 9°46 | 11°46 | 29°34 | 10°30 | 8° 4 | 10°35 | 9°13 | 23°50 | 1°57 | F 9 |
| S 10 | 21 14 1 | 17°15'28 | 7♈18 | 8°R38 | 20°56 | 12° 5 | 9°46 | 11°47 | 29°33 | 10°28 | 8° 6 | 10°30 | 9°10 | 23°56 | 1°55 | S 10 |
| S 11 | 21 17 58 | 18°13'07 | 19°15 | 8°36 | 22° 9 | 12°43 | 9°47 | 11°49 | 29°31 | 10°26 | 8° 7 | 10°25 | 9° 7 | 24° 3 | 1°53 | S 11 |
| M12 | 21 21 54 | 19°10'47 | 1♉ 7 | 8°29 | 23°21 | 13°21 | 9°48 | 11°50 | 29°30 | 10°25 | 8° 8 | 10°21 | 9° 4 | 24°10 | 1°51 | M12 |
| T 13 | 21 25 51 | 20° 8'28 | 13° 0 | 8°15 | 24°34 | 13°59 | 9°49 | 11°51 | 29°28 | 10°23 | 8° 9 | 10°20 | 9° 0 | 24°17 | 1°50 | T 13 |
| W14 | 21 29 47 | 21° 6'12 | 24°57 | 7°57 | 25°47 | 14°37 | 9°51 | 11°53 | 29°26 | 10°22 | 8°10 | 10°D19 | 8°57 | 24°23 | 1°48 | W14 |
| T 15 | 21 33 44 | 22° 3'57 | 7♊ 4 | 7°32 | 27° 0 | 15°15 | 9°52 | 11°54 | 29°24 | 10°20 | 8°12 | 10°20 | 8°54 | 24°30 | 1°46 | T 15 |
| F 16 | 21 37 41 | 23° 1'43 | 19°26 | 7° 2 | 28°13 | 15°53 | 9°54 | 11°54 | 29°23 | 10°18 | 8°13 | 10°22 | 8°51 | 24°37 | 1°44 | F 16 |
| S 17 | 21 41 37 | 23°59'31 | 2♋ 6 | 6°27 | 29°26 | 16°32 | 9°56 | 11°55 | 29°21 | 10°17 | 8°14 | 10°23 | 8°48 | 24°43 | 1°42 | S 17 |
| S 18 | 21 45 34 | 24°57'21 | 15° 9 | 5°47 | 0♌39 | 17°10 | 9°58 | 11°56 | 29°19 | 10°15 | 8°15 | 10°R23 | 8°45 | 24°50 | 1°40 | S 18 |
| M19 | 21 49 30 | 25°55'13 | 28°37 | 5° 2 | 1°52 | 17°48 | 10° 0 | 11°57 | 29°17 | 10°14 | 8°16 | 10°22 | 8°41 | 24°57 | 1°37 | M19 |
| T 20 | 21 53 27 | 26°53'06 | 12♌30 | 4°14 | 3° 5 | 18°26 | 10° 2 | 11°57 | 29°15 | 10°12 | 8°17 | 10°18 | 8°38 | 25° 4 | 1°35 | T 20 |
| W21 | 21 57 23 | 27°51'01 | 26°45 | 3°22 | 4°18 | 19° 5 | 10° 5 | 11°58 | 29°13 | 10°11 | 8°18 | 10°13 | 8°35 | 25°10 | 1°33 | W21 |
| T 22 | 22 1 20 | 28°48'57 | 11♍18 | 2°28 | 5°31 | 19°43 | 10° 8 | 11°58 | 29°11 | 10° 9 | 8°19 | 10° 6 | 8°32 | 25°17 | 1°31 | T 22 |
| F 23 | 22 5 17 | 29°46'54 | 26° 1 | 1°33 | 6°44 | 20°22 | 10°10 | 11°58 | 29° 9 | 10° 8 | 8°20 | 9°58 | 8°29 | 25°24 | 1°29 | F 23 |
| S 24 | 22 9 13 | 0♍44'53 | 10♎48 | 0°38 | 7°58 | 21° 0 | 10°14 | 11°R58 | 29° 7 | 10° 6 | 8°21 | 9°51 | 8°25 | 25°30 | 1°26 | S 24 |
| S 25 | 22 13 10 | 1°42'54 | 25°29 | 29♌44 | 9°11 | 21°39 | 10°17 | 11°58 | 29° 5 | 10° 5 | 8°22 | 9°45 | 8°22 | 25°37 | 1°24 | S 25 |
| M26 | 22 17 6 | 2°40'56 | 10♏ 0 | 28°52 | 10°24 | 22°17 | 10°20 | 11°58 | 29° 3 | 10° 3 | 8°23 | 9°40 | 8°19 | 25°44 | 1°22 | M26 |
| T 27 | 22 21 3 | 3°38'59 | 24°15 | 28° 3 | 11°38 | 22°56 | 10°24 | 11°58 | 29° 1 | 10° 2 | 8°24 | 9°38 | 8°16 | 25°51 | 1°19 | T 27 |
| W28 | 22 24 59 | 4°37'04 | 8♐14 | 27°19 | 12°51 | 23°34 | 10°28 | 11°57 | 28°59 | 10° 0 | 8°25 | 9°D38 | 8°13 | 25°57 | 1°17 | W28 |
| T 29 | 22 28 56 | 5°35'10 | 21°55 | 26°40 | 14° 5 | 24°13 | 10°32 | 11°57 | 28°57 | 9°59 | 8°26 | 9°39 | 8°10 | 26° 4 | 1°14 | T 29 |
| F 30 | 22 32 52 | 6°33'17 | 5♏21 | 26° 8 | 15°18 | 24°52 | 10°36 | 11°56 | 28°55 | 9°57 | 8°27 | 9°R39 | 8° 6 | 26°11 | 1°12 | F 30 |
| S 31 | 22 36 49 | 7♍31'26 | 18♏31 | 25♌43 | 16♌32 | 25♍30 | 10♐40 | 11♉56 | 28♓53 | 9♒56 | 8♋28 | 9♏39 | 8♏ 3 | 26♈17 | 1♈10 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n 8 | 24s45 | 2s35 | 7n33 | 2s13 | 22n38 | 0s28 | 10n 6 | 1n 0 | 21s30 | 0n27 | 13n 0 | 2s26 | 0s48 | 0s46 | 17s39 | 0s 5 | 20n37 | 2s38 | 23s 2 | 23s 8 | 13n35 | 3n54 | 3n19 |
| F 2 | 17 53 | 24 49 | 1 26 | 7 7 | 2 24 | 22 35 | 0 25 | 9 52 | 0 59 | 21 31 | 0 27 | 13 0 | 2 26 | 0 49 | 0 46 | 17 40 | 0 5 | 20 37 | 2 38 | 23 2 | 23 8 | 13 37 | 3 53 | 3 19 |
| S 3 | 17 38 | 23 25 | 0 13 | 6 43 | 2 36 | 22 31 | 0 22 | 9 37 | 0 59 | 21 31 | 0 27 | 13 1 | 2 26 | 0 49 | 0 46 | 17 40 | 0 5 | 20 37 | 2 38 | 23 2 | 23 8 | 13 39 | 3 53 | 3 19 |
| S 4 | 17 22 | 20 43 | 0n59 | 6 20 | 2 48 | 22 27 | 0 20 | 9 23 | 0 59 | 21 31 | 0 27 | 13 1 | 2 26 | 0 50 | 0 46 | 17 41 | 0 5 | 20 37 | 2 38 | 23 2 | 23 9 | 13 42 | 3 52 | 3 19 |
| M 5 | 17 6 | 16 59 | 2 8 | 5 59 | 3 0 | 22 22 | 0 17 | 9 8 | 0 58 | 21 31 | 0 27 | 13 2 | 2 27 | 0 50 | 0 46 | 17 41 | 0 5 | 20 37 | 2 38 | 23 2 | 23 9 | 13 44 | 3 52 | 3 19 |
| T 6 | 16 49 | 12 31 | 3 8 | 5 40 | 3 11 | 22 17 | 0 14 | 8 53 | 0 58 | 21 31 | 0 26 | 13 2 | 2 27 | 0 51 | 0 46 | 17 42 | 0 5 | 20 37 | 2 38 | 23 2 | 23 9 | 13 46 | 3 51 | 3 19 |
| W 7 | 16 33 | 7 35 | 3 58 | 5 23 | 3 22 | 22 11 | 0 11 | 8 39 | 0 57 | 21 31 | 0 26 | 13 2 | 2 27 | 0 51 | 0 46 | 17 42 | 0 5 | 20 37 | 2 38 | 23 3 | 23 9 | 13 49 | 3 51 | 3 19 |
| T 8 | 16 16 | 2 27 | 4 35 | 5 8 | 3 33 | 22 4 | 0 8 | 8 24 | 0 57 | 21 31 | 0 26 | 13 3 | 2 27 | 0 52 | 0 46 | 17 43 | 0 5 | 20 37 | 2 38 | 23 3 | 23 9 | 13 51 | 3 50 | 3 19 |
| F 9 | 15 59 | 2n41 | 4 59 | 4 55 | 3 44 | 21 57 | 0 5 | 8 9 | 0 56 | 21 32 | 0 26 | 13 3 | 2 28 | 0 53 | 0 46 | 17 43 | 0 5 | 20 37 | 2 38 | 23 4 | 23 10 | 13 53 | 3 50 | 3 20 |
| S 10 | 15 41 | 7 39 | 5 10 | 4 44 | 3 53 | 21 49 | 0 2 | 7 54 | 0 56 | 21 32 | 0 26 | 13 3 | 2 28 | 0 53 | 0 46 | 17 43 | 0 5 | 20 37 | 2 37 | 23 4 | 23 10 | 13 55 | 3 49 | 3 20 |
| S 11 | 15 24 | 12 16 | 5 7 | 4 36 | 4 3 | 21 40 | 0n 0 | 7 39 | 0 55 | 21 32 | 0 25 | 13 3 | 2 28 | 0 54 | 0 46 | 17 44 | 0 5 | 20 37 | 2 37 | 23 4 | 23 10 | 13 58 | 3 48 | 3 20 |
| M12 | 15 6 | 16 25 | 4 50 | 4 31 | 4 11 | 21 31 | 0 3 | 7 24 | 0 55 | 21 33 | 0 25 | 13 4 | 2 28 | 0 55 | 0 46 | 17 44 | 0 5 | 20 37 | 2 37 | 23 5 | 23 10 | 14 0 | 3 48 | 3 20 |
| T 13 | 14 48 | 19 55 | 4 22 | 4 29 | 4 19 | 21 21 | 0 6 | 7 9 | 0 55 | 21 33 | 0 25 | 13 4 | 2 29 | 0 55 | 0 46 | 17 45 | 0 5 | 20 37 | 2 37 | 23 5 | 23 11 | 14 2 | 3 47 | 3 20 |
| W14 | 14 29 | 22 37 | 3 41 | 4 30 | 4 25 | 21 10 | 0 9 | 6 54 | 0 54 | 21 33 | 0 25 | 13 4 | 2 29 | 0 56 | 0 47 | 17 45 | 0 5 | 20 37 | 2 37 | 23 5 | 23 11 | 14 5 | 3 46 | 3 20 |
| T 15 | 14 11 | 24 20 | 2 51 | 4 34 | 4 31 | 20 59 | 0 11 | 6 39 | 0 54 | 21 34 | 0 25 | 13 4 | 2 29 | 0 57 | 0 47 | 17 46 | 0 5 | 20 37 | 2 37 | 23 5 | 23 11 | 14 7 | 3 45 | 3 20 |
| F 16 | 13 52 | 24 54 | 1 51 | 4 41 | 4 35 | 20 47 | 0 14 | 6 23 | 0 53 | 21 34 | 0 24 | 13 4 | 2 29 | 0 58 | 0 47 | 17 46 | 0 5 | 20 37 | 2 37 | 23 5 | 23 11 | 14 9 | 3 45 | 3 20 |
| S 17 | 13 33 | 24 13 | 0 45 | 4 51 | 4 38 | 20 35 | 0 17 | 6 8 | 0 53 | 21 35 | 0 24 | 13 4 | 2 29 | 0 58 | 0 47 | 17 47 | 0 5 | 20 36 | 2 37 | 23 4 | 23 11 | 14 11 | 3 44 | 3 20 |
| S 18 | 13 14 | 22 11 | 0s26 | 5 5 | 4 39 | 20 22 | 0 19 | 5 53 | 0 52 | 21 35 | 0 24 | 13 4 | 2 30 | 0 59 | 0 47 | 17 47 | 0 5 | 20 36 | 2 37 | 23 4 | 23 12 | 14 14 | 3 43 | 3 20 |
| M19 | 12 54 | 18 54 | 1 37 | 5 21 | 4 39 | 20 8 | 0 22 | 5 37 | 0 52 | 21 36 | 0 24 | 13 4 | 2 30 | 1 0 | 0 47 | 17 47 | 0 5 | 20 36 | 2 37 | 23 5 | 23 12 | 14 16 | 3 42 | 3 20 |
| T 20 | 12 34 | 14 27 | 2 44 | 5 41 | 4 36 | 19 54 | 0 25 | 5 22 | 0 51 | 21 36 | 0 24 | 13 4 | 2 30 | 1 1 | 0 47 | 17 48 | 0 5 | 20 36 | 2 37 | 23 5 | 23 12 | 14 18 | 3 42 | 3 20 |
| W21 | 12 14 | 9 7 | 3 43 | 6 4 | 4 32 | 19 39 | 0 27 | 5 6 | 0 51 | 21 37 | 0 24 | 13 4 | 2 30 | 1 1 | 0 47 | 17 48 | 0 5 | 20 36 | 2 37 | 23 5 | 23 12 | 14 21 | 3 41 | 3 20 |
| T 22 | 11 54 | 3 12 | 4 29 | 6 28 | 4 26 | 19 24 | 0 30 | 4 51 | 0 50 | 21 37 | 0 23 | 13 4 | 2 31 | 1 2 | 0 47 | 17 49 | 0 5 | 20 36 | 2 37 | 23 6 | 23 12 | 14 23 | 3 40 | 3 20 |
| F 23 | 11 34 | 2s58 | 4 58 | 6 55 | 4 18 | 19 8 | 0 32 | 4 35 | 0 50 | 21 38 | 0 23 | 13 4 | 2 31 | 1 3 | 0 47 | 17 49 | 0 5 | 20 36 | 2 37 | 23 6 | 23 13 | 14 25 | 3 39 | 3 20 |
| S 24 | 11 14 | 8 58 | 5 6 | 7 24 | 4 8 | 18 52 | 0 35 | 4 20 | 0 49 | 21 39 | 0 23 | 13 3 | 2 31 | 1 4 | 0 47 | 17 50 | 0 5 | 20 36 | 2 37 | 23 7 | 23 13 | 14 27 | 3 38 | 3 20 |
| S 25 | 10 53 | 14 27 | 4 55 | 7 54 | 3 56 | 18 35 | 0 37 | 4 4 | 0 49 | 21 39 | 0 23 | 13 3 | 2 31 | 1 5 | 0 47 | 17 50 | 0 5 | 20 36 | 2 37 | 23 7 | 23 13 | 14 30 | 3 37 | 3 20 |
| M26 | 10 32 | 19 1 | 4 25 | 8 24 | 3 43 | 18 18 | 0 39 | 3 48 | 0 48 | 21 40 | 0 23 | 13 3 | 2 32 | 1 5 | 0 47 | 17 50 | 0 5 | 20 36 | 2 37 | 23 8 | 23 13 | 14 32 | 3 36 | 3 20 |
| T 27 | 10 11 | 22 24 | 3 39 | 8 55 | 3 28 | 18 0 | 0 42 | 3 33 | 0 48 | 21 41 | 0 22 | 13 2 | 2 32 | 1 6 | 0 47 | 17 51 | 0 5 | 20 36 | 2 37 | 23 8 | 23 13 | 14 34 | 3 35 | 3 20 |
| W28 | 9 50 | 24 21 | 2 40 | 9 25 | 3 12 | 17 41 | 0 44 | 3 17 | 0 47 | 21 41 | 0 22 | 13 2 | 2 32 | 1 7 | 0 47 | 17 51 | 0 5 | 20 36 | 2 37 | 23 8 | 23 14 | 14 36 | 3 34 | 3 20 |
| T 29 | 9 29 | 24 48 | 1 34 | 9 55 | 2 54 | 17 22 | 0 46 | 3 1 | 0 47 | 21 42 | 0 22 | 13 2 | 2 32 | 1 8 | 0 47 | 17 52 | 0 5 | 20 36 | 2 37 | 23 8 | 23 14 | 14 38 | 3 33 | 3 20 |
| F 30 | 9 7 | 23 46 | 0 23 | 10 23 | 2 36 | 17 3 | 0 48 | 2 45 | 0 47 | 21 43 | 0 22 | 13 1 | 2 33 | 1 9 | 0 47 | 17 52 | 0 5 | 20 36 | 2 37 | 23 8 | 23 14 | 14 41 | 3 32 | 3 20 |
| S 31 | 8n46 | 21s25 | 0n47 | 10n49 | 2s18 | 16n43 | 0n50 | 2n30 | 0n46 | 21s44 | 0n22 | 13n 1 | 2s33 | 1s10 | 0s47 | 17s52 | 0s 5 | 20n36 | 2s37 | 23s 8 | 23s14 | 14n43 | 3n31 | 3n20 |

Julian Day Number = 2333053.5, Delta T = 26.26 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'43, Lahiri = 19°19'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## SEPTEMBER 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 40 46 | 8♍29'37 | 1♒29 | 25°R26 | 17♌45 | 26♍ 9 | 10♐45 | 11°R55 | 28°R50 | 9°R54 | 8♋29 | 9°R37 | 8♎ 0 | 26♈24 | 1°R 7 | S 1 |
| M 2 | 22 44 42 | 9°27'49 | 14°14 | 25°D17 | 18°59 | 26°48 | 10°49 | 11♑54 | 28♓48 | 9♒53 | 8°30 | 9♎32 | 7°57 | 26°31 | 1♈ 4 | M 2 |
| T 3 | 22 48 39 | 10°26'02 | 26°50 | 25♌17 | 20°13 | 27°27 | 10°54 | 11°53 | 28°46 | 9°52 | 8°30 | 9°25 | 7°54 | 26°38 | 1° 2 | T 3 |
| W 4 | 22 52 35 | 11°24'17 | 9♓15 | 25°26 | 21°27 | 28° 6 | 10°59 | 11°52 | 28°44 | 9°50 | 8°31 | 9°15 | 7°51 | 26°44 | 0°59 | W 4 |
| T 5 | 22 56 32 | 12°22'34 | 21°30 | 25°44 | 22°40 | 28°45 | 11° 4 | 11°51 | 28°41 | 9°49 | 8°32 | 9° 4 | 7°47 | 26°51 | 0°57 | T 5 |
| F 6 | 23 0 28 | 13°20'53 | 3♈38 | 26°11 | 23°54 | 29°24 | 11°10 | 11°50 | 28°39 | 9°48 | 8°33 | 8°52 | 7°44 | 26°58 | 0°54 | F 6 |
| S 7 | 23 4 25 | 14°19'14 | 15°37 | 26°46 | 25° 8 | 0♎ 2 | 11°15 | 11°48 | 28°37 | 9°47 | 8°34 | 8°41 | 7°41 | 27° 4 | 0°51 | S 7 |
| S 8 | 23 8 21 | 15°17'37 | 27°31 | 27°30 | 26°22 | 0°41 | 11°21 | 11°47 | 28°34 | 9°45 | 8°34 | 8°30 | 7°38 | 27°11 | 0°49 | S 8 |
| M 9 | 23 12 18 | 16°16'02 | 9♉22 | 28°22 | 27°36 | 1°21 | 11°27 | 11°45 | 28°32 | 9°44 | 8°35 | 8°22 | 7°35 | 27°18 | 0°46 | M 9 |
| T 10 | 23 16 14 | 17°14'29 | 21°12 | 29°22 | 28°50 | 2° 0 | 11°32 | 11°43 | 28°30 | 9°43 | 8°36 | 8°17 | 7°31 | 27°25 | 0°43 | T 10 |
| W11 | 23 20 11 | 18°12'58 | 3♊ 7 | 0♍28 | 0♍ 4 | 2°39 | 11°39 | 11°42 | 28°27 | 9°42 | 8°36 | 8°14 | 7°28 | 27°31 | 0°41 | W11 |
| T 12 | 23 24 8 | 19°11'29 | 15°11 | 1°42 | 1°18 | 3°18 | 11°45 | 11°40 | 28°25 | 9°40 | 8°37 | 8°D12 | 7°25 | 27°38 | 0°38 | T 12 |
| F 13 | 23 28 4 | 20°10'03 | 27°30 | 3° 1 | 2°32 | 3°57 | 11°51 | 11°38 | 28°23 | 9°39 | 8°38 | 8°12 | 7°22 | 27°45 | 0°35 | F 13 |
| S 14 | 23 32 1 | 21° 8'39 | 10♋ 7 | 4°25 | 3°47 | 4°36 | 11°58 | 11°36 | 28°20 | 9°38 | 8°38 | 8°R13 | 7°19 | 27°51 | 0°33 | S 14 |
| S 15 | 23 35 57 | 22° 7'17 | 23° 9 | 5°55 | 5° 1 | 5°16 | 12° 4 | 11°33 | 28°18 | 9°37 | 8°39 | 8°12 | 7°16 | 27°58 | 0°30 | S 15 |
| M16 | 23 39 54 | 23° 5'57 | 6♌38 | 7°28 | 6°15 | 5°55 | 12°11 | 11°31 | 28°15 | 9°36 | 8°39 | 8° 9 | 7°12 | 28° 5 | 0°27 | M16 |
| T 17 | 23 43 50 | 24° 4'39 | 20°36 | 9° 5 | 7°29 | 6°34 | 12°18 | 11°29 | 28°13 | 9°35 | 8°40 | 8° 4 | 7° 9 | 28°12 | 0°24 | T 17 |
| W18 | 23 47 47 | 25° 3'24 | 5♍ 2 | 10°45 | 8°44 | 7°14 | 12°25 | 11°26 | 28°11 | 9°34 | 8°40 | 7°56 | 7° 6 | 28°18 | 0°21 | W18 |
| T 19 | 23 51 43 | 26° 2'10 | 19°51 | 12°27 | 9°58 | 7°53 | 12°33 | 11°24 | 28° 8 | 9°33 | 8°41 | 7°46 | 7° 3 | 28°25 | 0°19 | T 19 |
| F 20 | 23 55 40 | 27° 0'59 | 4♎55 | 14°11 | 11°13 | 8°33 | 12°40 | 11°21 | 28° 6 | 9°32 | 8°41 | 7°35 | 7° 0 | 28°32 | 0°16 | F 20 |
| S 21 | 23 59 37 | 27°59'50 | 20° 5 | 15°57 | 12°27 | 9°12 | 12°48 | 11°18 | 28° 3 | 9°31 | 8°42 | 7°24 | 6°56 | 28°38 | 0°13 | S 21 |
| S 22 | 0 3 33 | 28°58'42 | 5♏ 9 | 17°44 | 13°42 | 9°52 | 12°55 | 11°15 | 28° 1 | 9°30 | 8°42 | 7°14 | 6°53 | 28°45 | 0°10 | S 22 |
| M23 | 0 7 30 | 29°57'36 | 19°58 | 19°32 | 14°56 | 10°32 | 13° 3 | 11°12 | 27°59 | 9°29 | 8°42 | 7° 8 | 6°50 | 28°52 | 0° 7 | M23 |
| T 24 | 0 11 26 | 0♎56'33 | 4♐27 | 21°20 | 16°11 | 11°11 | 13°11 | 11° 9 | 27°56 | 9°28 | 8°43 | 7° 3 | 6°47 | 28°59 | 0° 5 | T 24 |
| W25 | 0 15 23 | 1°55'31 | 18°32 | 23° 9 | 17°25 | 11°51 | 13°19 | 11° 6 | 27°54 | 9°27 | 8°43 | 7° 2 | 6°44 | 29° 5 | 0° 2 | W25 |
| T 26 | 0 19 19 | 2°54'30 | 2♑13 | 24°57 | 18°40 | 12°31 | 13°27 | 11° 3 | 27°51 | 9°27 | 8°44 | 7° 1 | 6°41 | 29°12 | 29♓59 | T 26 |
| F 27 | 0 23 16 | 3°53'32 | 15°32 | 26°46 | 19°54 | 13°11 | 13°36 | 11° 0 | 27°49 | 9°26 | 8°44 | 7° 1 | 6°37 | 29°19 | 29°56 | F 27 |
| S 28 | 0 27 12 | 4°52'35 | 28°32 | 28°35 | 21° 9 | 13°50 | 13°44 | 10°56 | 27°47 | 9°25 | 8°44 | 7° 0 | 6°34 | 29°25 | 29°53 | S 28 |
| S 29 | 0 31 9 | 5°51'40 | 11♒15 | 0♎23 | 22°24 | 14°30 | 13°53 | 10°53 | 27°44 | 9°24 | 8°44 | 6°57 | 6°31 | 29°32 | 29°51 | S 29 |
| M30 | 0 35 6 | 6♎50'46 | 23♒46 | 2♎10 | 23♍38 | 15♎10 | 14♐ 2 | 10♑49 | 27♓42 | 9♒24 | 8♋45 | 6♎51 | 6♎28 | 29♈39 | 29♓48 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n24 | 18s 1 | 1n54 | 11n12 | 1s59 | 16n22 | 0n53 | 2n14 | 0n46 | 21s44 | 0n22 | 13n 1 | 2s33 | 1s11 | 0s47 | 17s53 | 0s 5 | 20n36 | 2s37 | 23s 8 | 23s14 | 14n45 | 3n30 | 3n20 |
| M 2 | 8 2 | 13 49 | 2 54 | 11 33 | 1 39 | 16 1 | 0 55 | 1 58 | 0 45 | 21 45 | 0 21 | 13 0 | 2 33 | 1 12 | 0 47 | 17 53 | 0 5 | 20 36 | 2 37 | 23 8 | 23 15 | 14 47 | 3 29 | 3 20 |
| T 3 | 7 40 | 9 5 | 3 44 | 11 51 | 1 20 | 15 40 | 0 57 | 1 42 | 0 45 | 21 46 | 0 21 | 13 0 | 2 34 | 1 12 | 0 47 | 17 53 | 0 5 | 20 36 | 2 37 | 23 9 | 23 15 | 14 49 | 3 28 | 3 20 |
| W 4 | 7 18 | 4 4 | 4 23 | 12 6 | 1 2 | 15 18 | 0 58 | 1 26 | 0 44 | 21 47 | 0 21 | 12 59 | 2 34 | 1 13 | 0 47 | 17 54 | 0 5 | 20 36 | 2 37 | 23 9 | 23 15 | 14 52 | 3 27 | 3 20 |
| T 5 | 6 56 | 1n 3 | 4 49 | 12 17 | 0 44 | 14 56 | 1 0 | 1 10 | 0 44 | 21 48 | 0 21 | 12 58 | 2 34 | 1 14 | 0 47 | 17 54 | 0 5 | 20 35 | 2 37 | 23 10 | 23 15 | 14 54 | 3 26 | 3 20 |
| F 6 | 6 33 | 6 3 | 5 1 | 12 24 | 0 26 | 14 33 | 1 2 | 0 54 | 0 43 | 21 49 | 0 21 | 12 58 | 2 34 | 1 15 | 0 47 | 17 55 | 0 5 | 20 35 | 2 37 | 23 11 | 23 15 | 14 56 | 3 25 | 3 20 |
| S 7 | 6 11 | 10 46 | 5 0 | 12 28 | 0 9 | 14 10 | 1 4 | 0 38 | 0 43 | 21 50 | 0 20 | 12 57 | 2 34 | 1 16 | 0 47 | 17 55 | 0 5 | 20 35 | 2 37 | 23 12 | 23 16 | 14 58 | 3 24 | 3 20 |
| S 8 | 5 48 | 15 3 | 4 46 | 12 28 | 0n 6 | 13 47 | 1 6 | 0 22 | 0 42 | 21 51 | 0 20 | 12 57 | 2 35 | 1 17 | 0 47 | 17 55 | 0 5 | 20 35 | 2 37 | 23 13 | 23 16 | 15 0 | 3 23 | 3 20 |
| M 9 | 5 26 | 18 44 | 4 20 | 12 24 | 0 21 | 13 23 | 1 7 | 0 6 | 0 42 | 21 52 | 0 20 | 12 56 | 2 35 | 1 18 | 0 47 | 17 56 | 0 5 | 20 35 | 2 37 | 23 13 | 23 16 | 15 3 | 3 22 | 3 20 |
| T 10 | 5 3 | 21 40 | 3 42 | 12 16 | 0 35 | 12 59 | 1 9 | 0s10 | 0 41 | 21 53 | 0 20 | 12 55 | 2 35 | 1 19 | 0 47 | 17 56 | 0 5 | 20 35 | 2 37 | 23 13 | 23 16 | 15 5 | 3 21 | 3 20 |
| W11 | 4 40 | 23 41 | 2 55 | 12 4 | 0 48 | 12 34 | 1 10 | 0 26 | 0 41 | 21 54 | 0 20 | 12 54 | 2 35 | 1 20 | 0 47 | 17 56 | 0 5 | 20 35 | 2 37 | 23 14 | 23 16 | 15 7 | 3 20 | 3 20 |
| T 12 | 4 17 | 24 38 | 1 59 | 11 48 | 0 59 | 12 9 | 1 12 | 0 42 | 0 40 | 21 55 | 0 20 | 12 54 | 2 35 | 1 21 | 0 47 | 17 57 | 0 5 | 20 35 | 2 37 | 23 14 | 23 16 | 15 9 | 3 19 | 3 20 |
| F 13 | 3 54 | 24 24 | 0 57 | 11 30 | 1 9 | 11 44 | 1 13 | 0 58 | 0 40 | 21 56 | 0 19 | 12 53 | 2 36 | 1 22 | 0 47 | 17 57 | 0 5 | 20 35 | 2 37 | 23 14 | 23 17 | 15 11 | 3 18 | 3 20 |
| S 14 | 3 31 | 22 56 | 0s10 | 11 7 | 1 18 | 11 18 | 1 15 | 1 14 | 0 39 | 21 57 | 0 19 | 12 52 | 2 36 | 1 23 | 0 47 | 17 57 | 0 5 | 20 35 | 2 37 | 23 14 | 23 17 | 15 13 | 3 17 | 3 20 |
| S 15 | 3 8 | 20 12 | 1 18 | 10 42 | 1 26 | 10 52 | 1 16 | 1 30 | 0 39 | 21 58 | 0 19 | 12 51 | 2 36 | 1 24 | 0 47 | 17 58 | 0 5 | 20 35 | 2 37 | 23 14 | 23 17 | 15 16 | 3 15 | 3 20 |
| M16 | 2 45 | 16 19 | 2 24 | 10 13 | 1 33 | 10 26 | 1 17 | 1 46 | 0 38 | 21 59 | 0 19 | 12 50 | 2 36 | 1 25 | 0 47 | 17 58 | 0 5 | 20 35 | 2 37 | 23 14 | 23 17 | 15 18 | 3 14 | 3 20 |
| T 17 | 2 21 | 11 25 | 3 24 | 9 42 | 1 39 | 9 59 | 1 18 | 2 2 | 0 38 | 22 0 | 0 19 | 12 49 | 2 36 | 1 26 | 0 47 | 17 58 | 0 5 | 20 35 | 2 37 | 23 14 | 23 17 | 15 20 | 3 13 | 3 20 |
| W18 | 1 58 | 5 45 | 4 13 | 9 9 | 1 43 | 9 32 | 1 19 | 2 18 | 0 37 | 22 1 | 0 19 | 12 48 | 2 37 | 1 27 | 0 47 | 17 58 | 0 5 | 20 35 | 2 37 | 23 15 | 23 17 | 15 22 | 3 12 | 3 20 |
| T 19 | 1 35 | 0s22 | 4 46 | 8 33 | 1 47 | 9 5 | 1 20 | 2 34 | 0 37 | 22 2 | 0 19 | 12 47 | 2 37 | 1 28 | 0 47 | 17 59 | 0 5 | 20 35 | 2 37 | 23 15 | 23 18 | 15 24 | 3 11 | 3 20 |
| F 20 | 1 11 | 6 33 | 5 0 | 7 55 | 1 49 | 8 38 | 1 21 | 2 51 | 0 36 | 22 3 | 0 18 | 12 46 | 2 37 | 1 29 | 0 47 | 17 59 | 0 5 | 20 35 | 2 37 | 23 16 | 23 18 | 15 26 | 3 10 | 3 20 |
| S 21 | 0 48 | 12 23 | 4 53 | 7 15 | 1 51 | 8 10 | 1 22 | 3 7 | 0 36 | 22 4 | 0 18 | 12 45 | 2 37 | 1 29 | 0 47 | 17 59 | 0 5 | 20 35 | 2 37 | 23 16 | 23 18 | 15 28 | 3 8 | 3 20 |
| S 22 | 0 24 | 17 26 | 4 26 | 6 35 | 1 52 | 7 42 | 1 23 | 3 23 | 0 35 | 22 5 | 0 18 | 12 44 | 2 37 | 1 30 | 0 47 | 17 59 | 0 5 | 20 35 | 2 37 | 23 17 | 23 18 | 15 31 | 3 7 | 3 20 |
| M23 | 0 1 | 21 19 | 3 41 | 5 52 | 1 52 | 7 14 | 1 24 | 3 39 | 0 35 | 22 7 | 0 18 | 12 43 | 2 38 | 1 31 | 0 47 | 18 0 | 0 5 | 20 35 | 2 37 | 23 17 | 23 18 | 15 33 | 3 6 | 3 20 |
| T 24 | 0s23 | 23 44 | 2 43 | 5 9 | 1 52 | 6 46 | 1 25 | 3 55 | 0 34 | 22 8 | 0 18 | 12 42 | 2 38 | 1 32 | 0 47 | 18 0 | 0 5 | 20 35 | 2 37 | 23 18 | 23 18 | 15 35 | 3 5 | 3 20 |
| W25 | 0 46 | 24 35 | 1 36 | 4 25 | 1 50 | 6 17 | 1 25 | 4 11 | 0 34 | 22 9 | 0 18 | 12 41 | 2 38 | 1 33 | 0 47 | 18 0 | 0 5 | 20 35 | 2 37 | 23 18 | 23 19 | 15 37 | 3 4 | 3 20 |
| T 26 | 1 10 | 23 53 | 0 25 | 3 40 | 1 48 | 5 48 | 1 26 | 4 27 | 0 33 | 22 10 | 0 17 | 12 40 | 2 38 | 1 34 | 0 47 | 18 0 | 0 5 | 20 35 | 2 37 | 23 18 | 23 19 | 15 39 | 3 3 | 3 19 |
| F 27 | 1 33 | 21 50 | 0n45 | 2 54 | 1 46 | 5 20 | 1 26 | 4 43 | 0 33 | 22 11 | 0 17 | 12 39 | 2 38 | 1 35 | 0 47 | 18 1 | 0 5 | 20 35 | 2 37 | 23 18 | 23 19 | 15 41 | 3 1 | 3 19 |
| S 28 | 1 56 | 18 41 | 1 51 | 2 8 | 1 43 | 4 51 | 1 27 | 4 59 | 0 32 | 22 12 | 0 17 | 12 37 | 2 38 | 1 36 | 0 47 | 18 1 | 0 5 | 20 35 | 2 37 | 23 18 | 23 19 | 15 43 | 3 0 | 3 19 |
| S 29 | 2 20 | 14 42 | 2 50 | 1 22 | 1 39 | 4 21 | 1 27 | 5 15 | 0 32 | 22 14 | 0 17 | 12 36 | 2 39 | 1 37 | 0 47 | 18 1 | 0 5 | 20 35 | 2 37 | 23 18 | 23 19 | 15 45 | 2 59 | 3 19 |
| M30 | 2s43 | 10s10 | 3n40 | 0n36 | 1n35 | 3n52 | 1n27 | 5s31 | 0n31 | 22s15 | 0n17 | 12n35 | 2s39 | 1s38 | 0s47 | 18s 1 | 0s 5 | 20n35 | 2s37 | 23s18 | 23s19 | 15n47 | 2n58 | 3n19 |

Julian Day Number = 2333084.5, Delta T = 26.21 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'47, Lahiri = 19°19'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## OCTOBER 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 39 2 | 7♎49'55 | 6♓ 6 | 3♎57 | 24♍53 | 15♎50 | 14♐10 | 10°R46 | 27°R39 | 9°R23 | 8♋45 | 6°R42 | 6♑25 | 29♈46 | 29°R45 | T 1 |
| W 2 | 0 42 59 | 8°49'05 | 18°18 | 5°44 | 26° 8 | 16°30 | 14°19 | 10♉42 | 27♓37 | 9♒22 | 8°45 | 6♑30 | 6°22 | 29°52 | 29♓42 | W 2 |
| T 3 | 0 46 55 | 9°48'18 | 0♈23 | 7°30 | 27°23 | 17°10 | 14°29 | 10°38 | 27°35 | 9°22 | 8°45 | 6°17 | 6°18 | 29°59 | 29°40 | T 3 |
| F 4 | 0 50 52 | 10°47'32 | 12°22 | 9°15 | 28°38 | 17°50 | 14°38 | 10°34 | 27°32 | 9°21 | 8°45 | 6° 2 | 6°15 | 0♉ 6 | 29°37 | F 4 |
| S 5 | 0 54 48 | 11°46'48 | 24°17 | 10°59 | 29°52 | 18°30 | 14°47 | 10°31 | 27°30 | 9°21 | 8°45 | 5°48 | 6°12 | 0°12 | 29°34 | S 5 |
| S 6 | 0 58 45 | 12°46'07 | 6♉ 9 | 12°43 | 1♏ 7 | 19°11 | 14°57 | 10°27 | 27°28 | 9°20 | 8°45 | 5°35 | 6° 9 | 0°19 | 29°31 | S 6 |
| M 7 | 1 2 41 | 13°45'28 | 17°59 | 14°26 | 2°22 | 19°51 | 15° 6 | 10°23 | 27°25 | 9°20 | 8°46 | 5°25 | 6° 6 | 0°26 | 29°29 | M 7 |
| T 8 | 1 6 38 | 14°44'51 | 29°50 | 16° 8 | 3°37 | 20°31 | 15°16 | 10°19 | 27°23 | 9°19 | 8°46 | 5°18 | 6° 2 | 0°33 | 29°26 | T 8 |
| W 9 | 1 10 34 | 15°44'16 | 11♊45 | 17°50 | 4°52 | 21°11 | 15°26 | 10°14 | 27°21 | 9°19 | 8°R46 | 5°13 | 5°59 | 0°39 | 29°23 | W 9 |
| T 10 | 1 14 31 | 16°43'44 | 23°49 | 19°31 | 6° 7 | 21°52 | 15°35 | 10°10 | 27°19 | 9°18 | 8°46 | 5°11 | 5°56 | 0°46 | 29°21 | T 10 |
| F 11 | 1 18 28 | 17°43'14 | 6♋ 5 | 21°11 | 7°22 | 22°32 | 15°45 | 10° 6 | 27°16 | 9°18 | 8°46 | 5°D11 | 5°53 | 0°53 | 29°18 | F 11 |
| S 12 | 1 22 24 | 18°42'46 | 18°38 | 22°51 | 8°37 | 23°13 | 15°55 | 10° 2 | 27°14 | 9°18 | 8°46 | 5°R11 | 5°50 | 0°59 | 29°16 | S 12 |
| S 13 | 1 26 21 | 19°42'21 | 1♌34 | 24°30 | 9°52 | 23°53 | 16° 6 | 9°57 | 27°12 | 9°17 | 8°45 | 5°10 | 5°47 | 1° 6 | 29°13 | S 13 |
| M14 | 1 30 17 | 20°41'57 | 14°57 | 26° 8 | 11° 7 | 24°34 | 16°16 | 9°53 | 27°10 | 9°17 | 8°45 | 5° 8 | 5°43 | 1°13 | 29°10 | M14 |
| T 15 | 1 34 14 | 21°41'36 | 28°49 | 27°45 | 12°22 | 25°14 | 16°26 | 9°48 | 27° 8 | 9°17 | 8°45 | 5° 3 | 5°40 | 1°19 | 29° 8 | T 15 |
| W16 | 1 38 10 | 22°41'18 | 13♍11 | 29°22 | 13°37 | 25°55 | 16°37 | 9°44 | 27° 6 | 9°17 | 8°45 | 4°56 | 5°37 | 1°26 | 29° 5 | W16 |
| T 17 | 1 42 7 | 23°41'01 | 28° 0 | 0♏59 | 14°52 | 26°35 | 16°47 | 9°39 | 27° 4 | 9°16 | 8°45 | 4°47 | 5°34 | 1°33 | 29° 3 | T 17 |
| F 18 | 1 46 3 | 24°40'47 | 13♎ 9 | 2°34 | 16° 8 | 27°16 | 16°58 | 9°35 | 27° 1 | 9°16 | 8°45 | 4°37 | 5°31 | 1°40 | 29° 0 | F 18 |
| S 19 | 1 50 0 | 25°40'35 | 28°29 | 4°10 | 17°23 | 27°57 | 17° 9 | 9°30 | 26°59 | 9°16 | 8°44 | 4°26 | 5°28 | 1°46 | 28°58 | S 19 |
| S 20 | 1 53 57 | 26°40'25 | 13♏46 | 5°44 | 18°38 | 28°38 | 17°20 | 9°25 | 26°57 | 9°16 | 8°44 | 4°17 | 5°24 | 1°53 | 28°56 | S 20 |
| M21 | 1 57 53 | 27°40'16 | 28°52 | 7°18 | 19°53 | 29°19 | 17°31 | 9°21 | 26°55 | 9°D16 | 8°44 | 4°10 | 5°21 | 2° 0 | 28°53 | M21 |
| T 22 | 2 1 50 | 28°40'10 | 13♐36 | 8°52 | 21° 8 | 29°59 | 17°42 | 9°16 | 26°54 | 9°16 | 8°44 | 4° 6 | 5°18 | 2° 6 | 28°51 | T 22 |
| W23 | 2 5 46 | 29°40'05 | 27°54 | 10°25 | 22°24 | 0♏40 | 17°53 | 9°11 | 26°52 | 9°16 | 8°43 | 4°D 5 | 5°15 | 2°13 | 28°49 | W23 |
| T 24 | 2 9 43 | 0♏40'02 | 11♑44 | 11°58 | 23°39 | 1°21 | 18° 4 | 9° 6 | 26°50 | 9°16 | 8°43 | 4° 5 | 5°12 | 2°20 | 28°46 | T 24 |
| F 25 | 2 13 39 | 1°40'01 | 25° 7 | 13°30 | 24°54 | 2° 2 | 18°16 | 9° 2 | 26°48 | 9°16 | 8°43 | 4° 5 | 5° 8 | 2°27 | 28°44 | F 25 |
| S 26 | 2 17 36 | 2°40'01 | 8♒ 7 | 15° 1 | 26° 9 | 2°43 | 18°27 | 8°57 | 26°46 | 9°16 | 8°42 | 4°R 5 | 5° 5 | 2°33 | 28°42 | S 26 |
| S 27 | 2 21 32 | 3°40'03 | 20°47 | 16°32 | 27°25 | 3°25 | 18°39 | 8°52 | 26°44 | 9°17 | 8°42 | 4° 4 | 5° 2 | 2°40 | 28°40 | S 27 |
| M28 | 2 25 29 | 4°40'06 | 3♓10 | 18° 3 | 28°40 | 4° 6 | 18°50 | 8°47 | 26°42 | 9°17 | 8°41 | 4° 0 | 4°59 | 2°47 | 28°37 | M28 |
| T 29 | 2 29 26 | 5°40'11 | 15°22 | 19°33 | 29°55 | 4°47 | 19° 2 | 8°42 | 26°41 | 9°17 | 8°41 | 3°54 | 4°56 | 2°53 | 28°35 | T 29 |
| W30 | 2 33 22 | 6°40'18 | 27°25 | 21° 3 | 1♏10 | 5°28 | 19°14 | 8°37 | 26°39 | 9°17 | 8°41 | 3°45 | 4°53 | 3° 0 | 28°33 | W30 |
| T 31 | 2 37 19 | 7♏40'26 | 9♈22 | 22♏32 | 2♏26 | 6♏ 9 | 19♐25 | 8♉33 | 26♓37 | 9♒18 | 8♋40 | 3♑35 | 4♑49 | 3♉ 7 | 28♓31 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s 7 | 5s17 | 4n19 | 0s11 | 1n31 | 3n23 | 1n28 | 5s46 | 0n30 | 22s16 | 0n17 | 12n34 | 2s39 | 1s39 | 0s47 | 18s 1 | 0s 5 | 20n35 | 2s37 | 23s19 | 23s20 | 15n49 | 2n57 | 3n19 |
| W 2 | 3 30 | 0 16 | 4 45 | 0 57 | 1 27 | 2 53 | 1 28 | 6 2 | 0 30 | 22 17 | 0 17 | 12 33 | 2 39 | 1 40 | 0 47 | 18 2 | 0 5 | 20 35 | 2 37 | 23 19 | 23 20 | 15 51 | 2 55 | 3 19 |
| T 3 | 3 53 | 4n42 | 4 58 | 1 44 | 1 22 | 2 23 | 1 28 | 6 18 | 0 29 | 22 18 | 0 16 | 12 31 | 2 39 | 1 41 | 0 47 | 18 2 | 0 5 | 20 35 | 2 37 | 23 20 | 23 20 | 15 54 | 2 54 | 3 19 |
| F 4 | 4 17 | 9 28 | 4 58 | 2 30 | 1 16 | 1 53 | 1 28 | 6 34 | 0 29 | 22 20 | 0 16 | 12 30 | 2 39 | 1 42 | 0 47 | 18 2 | 0 5 | 20 35 | 2 37 | 23 21 | 23 20 | 15 56 | 2 53 | 3 19 |
| S 5 | 4 40 | 13 50 | 4 44 | 3 16 | 1 11 | 1 24 | 1 28 | 6 50 | 0 28 | 22 21 | 0 16 | 12 29 | 2 39 | 1 43 | 0 47 | 18 2 | 0 5 | 20 34 | 2 37 | 23 21 | 23 20 | 15 58 | 2 52 | 3 19 |
| S 6 | 5 3 | 17 39 | 4 19 | 4 2 | 1 5 | 0 54 | 1 28 | 7 6 | 0 28 | 22 22 | 0 16 | 12 27 | 2 39 | 1 44 | 0 47 | 18 2 | 0 5 | 20 34 | 2 37 | 23 22 | 23 20 | 16 0 | 2 51 | 3 18 |
| M 7 | 5 26 | 20 46 | 3 42 | 4 47 | 0 59 | 0 24 | 1 28 | 7 21 | 0 27 | 22 23 | 0 16 | 12 26 | 2 40 | 1 44 | 0 47 | 18 2 | 0 5 | 20 34 | 2 37 | 23 22 | 23 20 | 16 2 | 2 49 | 3 18 |
| T 8 | 5 49 | 23 0 | 2 55 | 5 32 | 0 53 | 0s 6 | 1 27 | 7 37 | 0 27 | 22 24 | 0 16 | 12 25 | 2 40 | 1 45 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 21 | 16 4 | 2 48 | 3 18 |
| W 9 | 6 12 | 24 14 | 2 1 | 6 17 | 0 47 | 0 36 | 1 27 | 7 53 | 0 26 | 22 26 | 0 16 | 12 23 | 2 40 | 1 46 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 21 | 16 6 | 2 47 | 3 18 |
| T 10 | 6 35 | 24 20 | 1 0 | 7 1 | 0 41 | 1 6 | 1 27 | 8 8 | 0 26 | 22 27 | 0 15 | 12 22 | 2 40 | 1 47 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 21 | 16 8 | 2 46 | 3 18 |
| F 11 | 6 58 | 23 16 | 0s 5 | 7 45 | 0 34 | 1 37 | 1 26 | 8 24 | 0 25 | 22 28 | 0 15 | 12 20 | 2 40 | 1 48 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 21 | 16 10 | 2 45 | 3 18 |
| S 12 | 7 21 | 21 1 | 1 11 | 8 28 | 0 28 | 2 7 | 1 26 | 8 39 | 0 25 | 22 29 | 0 15 | 12 19 | 2 40 | 1 49 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 21 | 16 12 | 2 44 | 3 18 |
| S 13 | 7 43 | 17 39 | 2 15 | 9 11 | 0 21 | 2 37 | 1 25 | 8 55 | 0 24 | 22 30 | 0 15 | 12 18 | 2 40 | 1 50 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 21 | 16 14 | 2 42 | 3 18 |
| M14 | 8 6 | 13 17 | 3 14 | 9 53 | 0 14 | 3 7 | 1 24 | 9 10 | 0 24 | 22 32 | 0 15 | 12 16 | 2 40 | 1 51 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 21 | 16 16 | 2 41 | 3 17 |
| T 15 | 8 28 | 8 5 | 4 4 | 10 35 | 0 7 | 3 37 | 1 24 | 9 25 | 0 23 | 22 33 | 0 15 | 12 15 | 2 40 | 1 51 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 22 | 16 18 | 2 40 | 3 17 |
| W16 | 8 50 | 2 18 | 4 41 | 11 16 | 0 1 | 4 7 | 1 23 | 9 41 | 0 22 | 22 34 | 0 15 | 12 13 | 2 40 | 1 52 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 23 | 23 22 | 16 20 | 2 39 | 3 17 |
| T 17 | 9 13 | 3s47 | 5 0 | 11 56 | 0s 6 | 4 36 | 1 22 | 9 56 | 0 22 | 22 35 | 0 14 | 12 12 | 2 40 | 1 53 | 0 47 | 18 3 | 0 5 | 20 34 | 2 37 | 23 24 | 23 22 | 16 22 | 2 38 | 3 17 |
| F 18 | 9 35 | 9 47 | 4 59 | 12 35 | 0 13 | 5 6 | 1 21 | 10 11 | 0 21 | 22 36 | 0 14 | 12 10 | 2 40 | 1 54 | 0 47 | 18 3 | 0 6 | 20 34 | 2 37 | 23 24 | 23 22 | 16 24 | 2 37 | 3 17 |
| S 19 | 9 57 | 15 15 | 4 36 | 13 14 | 0 20 | 5 36 | 1 20 | 10 26 | 0 21 | 22 37 | 0 14 | 12 9 | 2 40 | 1 55 | 0 47 | 18 3 | 0 6 | 20 34 | 2 37 | 23 24 | 23 22 | 16 26 | 2 36 | 3 17 |
| S 20 | 10 18 | 19 43 | 3 54 | 13 52 | 0 26 | 6 5 | 1 19 | 10 41 | 0 20 | 22 39 | 0 14 | 12 7 | 2 41 | 1 55 | 0 47 | 18 3 | 0 6 | 20 34 | 2 37 | 23 25 | 23 22 | 16 28 | 2 34 | 3 16 |
| M21 | 10 40 | 22 48 | 2 56 | 14 30 | 0 33 | 6 35 | 1 18 | 10 56 | 0 20 | 22 40 | 0 14 | 12 6 | 2 41 | 1 56 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 22 | 16 30 | 2 33 | 3 16 |
| T 22 | 11 1 | 24 14 | 1 47 | 15 7 | 0 40 | 7 4 | 1 17 | 11 11 | 0 19 | 22 41 | 0 14 | 12 4 | 2 41 | 1 57 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 32 | 2 32 | 3 16 |
| W23 | 11 22 | 24 1 | 0 33 | 15 42 | 0 47 | 7 33 | 1 16 | 11 26 | 0 19 | 22 42 | 0 14 | 12 3 | 2 41 | 1 58 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 34 | 2 31 | 3 16 |
| T 24 | 11 44 | 22 17 | 0n41 | 16 18 | 0 53 | 8 2 | 1 15 | 11 41 | 0 18 | 22 43 | 0 14 | 12 1 | 2 41 | 1 58 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 36 | 2 30 | 3 16 |
| F 25 | 12 4 | 19 21 | 1 50 | 16 52 | 1 0 | 8 31 | 1 14 | 11 56 | 0 17 | 22 44 | 0 13 | 12 0 | 2 41 | 1 59 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 38 | 2 29 | 3 16 |
| S 26 | 12 25 | 15 31 | 2 51 | 17 25 | 1 6 | 9 0 | 1 12 | 12 11 | 0 17 | 22 45 | 0 13 | 11 58 | 2 41 | 2 0 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 40 | 2 28 | 3 15 |
| S 27 | 12 46 | 11 5 | 3 42 | 17 58 | 1 12 | 9 28 | 1 11 | 12 25 | 0 16 | 22 47 | 0 13 | 11 57 | 2 41 | 2 0 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 42 | 2 27 | 3 15 |
| M28 | 13 6 | 6 17 | 4 22 | 18 30 | 1 18 | 9 56 | 1 9 | 12 40 | 0 16 | 22 48 | 0 13 | 11 55 | 2 41 | 2 1 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 44 | 2 26 | 3 15 |
| T 29 | 13 26 | 1 20 | 4 49 | 19 0 | 1 24 | 10 24 | 1 8 | 12 54 | 0 15 | 22 49 | 0 13 | 11 53 | 2 41 | 2 2 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 25 | 23 23 | 16 46 | 2 25 | 3 15 |
| W30 | 13 46 | 3n36 | 5 3 | 19 30 | 1 30 | 10 52 | 1 6 | 13 8 | 0 15 | 22 50 | 0 13 | 11 52 | 2 41 | 2 2 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 26 | 23 24 | 16 48 | 2 24 | 3 15 |
| T 31 | 14s 6 | 8n22 | 5n 3 | 19s59 | 1s36 | 11s20 | 1n 5 | 13s23 | 0n14 | 22s51 | 0n13 | 11n50 | 2s41 | 2s 3 | 0s46 | 18s 3 | 0s 6 | 20n35 | 2s37 | 23s26 | 23s24 | 16n50 | 2n23 | 3n14 |

Julian Day Number = 2333114.5, Delta T = 26.16 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'51, Lahiri = 19°19'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## NOVEMBER 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 41 15 | 8♏40'36 | 21♈16 | 24♏ 1 | 3♏41 | 6♏51 | 19♐37 | 8°R28 | 26°R36 | 9♒18 | 8°R40 | 3°R23 | 4♑46 | 3♉14 | 28°R29 | F 1 |
| S 2 | 2 45 12 | 9°40'48 | 3♉ 8 | 25°29 | 4°56 | 7°32 | 19°49 | 8♉23 | 26♓34 | 9°18 | 8♋39 | 3♑13 | 4°43 | 3°20 | 28♓27 | S 2 |
| S 3 | 2 49 8 | 10°41'01 | 15° 0 | 26°57 | 6°12 | 8°14 | 20° 1 | 8°18 | 26°33 | 9°19 | 8°38 | 3° 3 | 4°40 | 3°27 | 28°25 | S 3 |
| M 4 | 2 53 5 | 11°41'16 | 26°53 | 28°24 | 7°27 | 8°55 | 20°13 | 8°13 | 26°31 | 9°19 | 8°38 | 2°55 | 4°37 | 3°34 | 28°24 | M 4 |
| T 5 | 2 57 1 | 12°41'34 | 8♊48 | 29°51 | 8°42 | 9°36 | 20°26 | 8° 8 | 26°30 | 9°20 | 8°37 | 2°50 | 4°33 | 3°40 | 28°22 | T 5 |
| W 6 | 3 0 58 | 13°41'53 | 20°49 | 1♐17 | 9°58 | 10°18 | 20°38 | 8° 3 | 26°28 | 9°20 | 8°37 | 2°47 | 4°30 | 3°47 | 28°20 | W 6 |
| T 7 | 3 4 55 | 14°42'14 | 2♋58 | 2°42 | 11°13 | 11° 0 | 20°50 | 7°59 | 26°27 | 9°21 | 8°36 | 2°D46 | 4°27 | 3°54 | 28°18 | T 7 |
| F 8 | 3 8 51 | 15°42'36 | 15°18 | 4° 7 | 12°29 | 11°41 | 21° 2 | 7°54 | 26°26 | 9°21 | 8°35 | 2°46 | 4°24 | 4° 0 | 28°17 | F 8 |
| S 9 | 3 12 48 | 16°43'01 | 27°53 | 5°31 | 13°44 | 12°23 | 21°15 | 7°49 | 26°24 | 9°22 | 8°35 | 2°48 | 4°21 | 4° 7 | 28°15 | S 9 |
| S 10 | 3 16 44 | 17°43'28 | 10♌47 | 6°54 | 14°59 | 13° 5 | 21°27 | 7°44 | 26°23 | 9°23 | 8°34 | 2°49 | 4°18 | 4°14 | 28°13 | S 10 |
| M11 | 3 20 41 | 18°43'56 | 24° 3 | 8°16 | 16°15 | 13°47 | 21°40 | 7°40 | 26°22 | 9°23 | 8°33 | 2°R49 | 4°14 | 4°21 | 28°12 | M11 |
| T 12 | 3 24 37 | 19°44'27 | 7♍45 | 9°37 | 17°30 | 14°28 | 21°53 | 7°35 | 26°21 | 9°24 | 8°32 | 2°47 | 4°11 | 4°27 | 28°10 | T 12 |
| W13 | 3 28 34 | 20°44'59 | 21°54 | 10°57 | 18°46 | 15°10 | 22° 5 | 7°30 | 26°20 | 9°25 | 8°32 | 2°44 | 4° 8 | 4°34 | 28° 9 | W13 |
| T 14 | 3 32 30 | 21°45'33 | 6♎29 | 12°16 | 20° 1 | 15°52 | 22°18 | 7°26 | 26°18 | 9°26 | 8°31 | 2°39 | 4° 5 | 4°41 | 28° 8 | T 14 |
| F 15 | 3 36 27 | 22°46'09 | 21°25 | 13°33 | 21°16 | 16°34 | 22°31 | 7°21 | 26°17 | 9°26 | 8°30 | 2°33 | 4° 2 | 4°47 | 28° 6 | F 15 |
| S 16 | 3 40 24 | 23°46'46 | 6♏34 | 14°48 | 22°32 | 17°16 | 22°44 | 7°16 | 26°16 | 9°27 | 8°29 | 2°27 | 3°59 | 4°54 | 28° 5 | S 16 |
| S 17 | 3 44 20 | 24°47'25 | 21°48 | 16° 2 | 23°47 | 17°58 | 22°57 | 7°12 | 26°15 | 9°28 | 8°28 | 2°21 | 3°55 | 5° 1 | 28° 4 | S 17 |
| M18 | 3 48 17 | 25°48'06 | 6♐55 | 17°14 | 25° 3 | 18°40 | 23° 9 | 7° 7 | 26°15 | 9°29 | 8°28 | 2°18 | 3°52 | 5° 7 | 28° 2 | M18 |
| T 19 | 3 52 13 | 26°48'48 | 21°47 | 18°23 | 26°18 | 19°23 | 23°22 | 7° 3 | 26°14 | 9°30 | 8°27 | 2°15 | 3°49 | 5°14 | 28° 1 | T 19 |
| W20 | 3 56 10 | 27°49'32 | 6♑15 | 19°29 | 27°34 | 20° 5 | 23°36 | 6°58 | 26°13 | 9°31 | 8°26 | 2°D15 | 3°46 | 5°21 | 28° 0 | W20 |
| T 21 | 4 0 6 | 28°50'16 | 20°16 | 20°32 | 28°49 | 20°47 | 23°49 | 6°54 | 26°12 | 9°32 | 8°25 | 2°16 | 3°43 | 5°28 | 27°59 | T 21 |
| F 22 | 4 4 3 | 29°51'02 | 3♒49 | 21°32 | 0♐ 5 | 21°29 | 24° 2 | 6°50 | 26°12 | 9°33 | 8°24 | 2°18 | 3°39 | 5°34 | 27°58 | F 22 |
| S 23 | 4 7 59 | 0♐51'48 | 16°56 | 22°27 | 1°20 | 22°12 | 24°15 | 6°46 | 26°11 | 9°34 | 8°23 | 2°19 | 3°36 | 5°41 | 27°57 | S 23 |
| S 24 | 4 11 56 | 1°52'36 | 29°40 | 23°18 | 2°36 | 22°54 | 24°28 | 6°41 | 26°10 | 9°35 | 8°22 | 2°R20 | 3°33 | 5°48 | 27°56 | S 24 |
| M25 | 4 15 53 | 2°53'24 | 12♓ 4 | 24° 3 | 3°51 | 23°37 | 24°41 | 6°37 | 26°10 | 9°36 | 8°21 | 2°20 | 3°30 | 5°54 | 27°56 | M25 |
| T 26 | 4 19 49 | 3°54'13 | 24°14 | 24°43 | 5° 7 | 24°19 | 24°55 | 6°33 | 26° 9 | 9°38 | 8°20 | 2°18 | 3°27 | 6° 1 | 27°55 | T 26 |
| W27 | 4 23 46 | 4°55'04 | 6♈14 | 25°15 | 6°22 | 25° 2 | 25° 8 | 6°29 | 26° 9 | 9°39 | 8°19 | 2°15 | 3°24 | 6° 8 | 27°54 | W27 |
| T 28 | 4 27 42 | 5°55'55 | 18° 8 | 25°40 | 7°37 | 25°44 | 25°21 | 6°25 | 26° 8 | 9°40 | 8°18 | 2°11 | 3°20 | 6°15 | 27°54 | T 28 |
| F 29 | 4 31 39 | 6°56'47 | 29°59 | 25°57 | 8°53 | 26°27 | 25°35 | 6°22 | 26° 8 | 9°41 | 8°17 | 2° 6 | 3°17 | 6°21 | 27°53 | F 29 |
| S 30 | 4 35 35 | 7♐57'40 | 11♉50 | 26°R 4 | 10♐ 8 | 27♏ 9 | 25♐48 | 6♉18 | 26♓ 8 | 9♒42 | 8♋16 | 2♑ 2 | 3♑14 | 6♉28 | 27♓52 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14s25 | 12n47 | 4n50 | 20s27 | 1s42 | 11s47 | 1n 3 | 13s37 | 0n13 | 22s52 | 0n13 | 11n49 | 2s41 | 2s 4 | 0s46 | 18s 3 | 0s 6 | 20n35 | 2s37 | 23s26 | 23s24 | 16n52 | 2n22 | 3n14 |
| S 2 | 14 44 | 16 43 | 4 25 | 20 54 | 1 47 | 12 14 | 1 1 | 13 51 | 0 13 | 22 53 | 0 12 | 11 47 | 2 40 | 2 4 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 27 | 23 24 | 16 54 | 2 21 | 3 14 |
| S 3 | 15 3 | 19 59 | 3 48 | 21 20 | 1 52 | 12 40 | 1 0 | 14 5 | 0 12 | 22 54 | 0 12 | 11 46 | 2 40 | 2 5 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 27 | 23 24 | 16 55 | 2 20 | 3 14 |
| M 4 | 15 22 | 22 25 | 3 1 | 21 45 | 1 57 | 13 7 | 0 58 | 14 19 | 0 12 | 22 55 | 0 12 | 11 44 | 2 40 | 2 5 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 27 | 23 24 | 16 57 | 2 19 | 3 14 |
| T 5 | 15 40 | 23 52 | 2 5 | 22 8 | 2 2 | 13 33 | 0 56 | 14 32 | 0 11 | 22 56 | 0 12 | 11 43 | 2 40 | 2 6 | 0 46 | 18 3 | 0 6 | 20 35 | 2 37 | 23 27 | 23 24 | 16 59 | 2 18 | 3 14 |
| W 6 | 15 59 | 24 14 | 1 4 | 22 31 | 2 6 | 13 58 | 0 54 | 14 46 | 0 11 | 22 57 | 0 12 | 11 41 | 2 40 | 2 7 | 0 46 | 18 2 | 0 6 | 20 35 | 2 37 | 23 27 | 23 24 | 17 1 | 2 17 | 3 13 |
| T 7 | 16 17 | 23 26 | 0s 1 | 22 52 | 2 11 | 14 24 | 0 52 | 15 0 | 0 10 | 22 58 | 0 12 | 11 40 | 2 40 | 2 7 | 0 46 | 18 2 | 0 6 | 20 35 | 2 37 | 23 27 | 23 24 | 17 3 | 2 17 | 3 13 |
| F 8 | 16 34 | 21 29 | 1 7 | 23 13 | 2 15 | 14 49 | 0 50 | 15 13 | 0 9 | 22 59 | 0 12 | 11 38 | 2 40 | 2 8 | 0 46 | 18 2 | 0 6 | 20 35 | 2 37 | 23 27 | 23 24 | 17 5 | 2 16 | 3 13 |
| S 9 | 16 52 | 18 28 | 2 12 | 23 32 | 2 18 | 15 13 | 0 48 | 15 26 | 0 9 | 23 0 | 0 12 | 11 37 | 2 40 | 2 8 | 0 46 | 18 2 | 0 6 | 20 35 | 2 37 | 23 27 | 23 25 | 17 7 | 2 15 | 3 13 |
| S 10 | 17 9 | 14 30 | 3 11 | 23 49 | 2 22 | 15 37 | 0 46 | 15 40 | 0 8 | 23 1 | 0 12 | 11 36 | 2 40 | 2 9 | 0 46 | 18 2 | 0 6 | 20 35 | 2 37 | 23 27 | 23 25 | 17 9 | 2 14 | 3 12 |
| M11 | 17 26 | 9 43 | 4 2 | 24 6 | 2 24 | 16 1 | 0 44 | 15 53 | 0 8 | 23 2 | 0 11 | 11 34 | 2 40 | 2 9 | 0 46 | 18 2 | 0 6 | 20 35 | 2 37 | 23 27 | 23 25 | 17 11 | 2 13 | 3 12 |
| T 12 | 17 42 | 4 20 | 4 41 | 24 21 | 2 27 | 16 25 | 0 42 | 16 6 | 0 7 | 23 3 | 0 11 | 11 33 | 2 40 | 2 9 | 0 46 | 18 1 | 0 6 | 20 35 | 2 37 | 23 27 | 23 25 | 17 13 | 2 12 | 3 12 |
| W13 | 17 58 | 1s27 | 5 4 | 24 35 | 2 29 | 16 48 | 0 40 | 16 19 | 0 6 | 23 4 | 0 11 | 11 31 | 2 40 | 2 10 | 0 46 | 18 1 | 0 6 | 20 35 | 2 37 | 23 27 | 23 25 | 17 14 | 2 12 | 3 12 |
| T 14 | 18 14 | 7 18 | 5 9 | 24 48 | 2 31 | 17 10 | 0 38 | 16 32 | 0 6 | 23 4 | 0 11 | 11 30 | 2 40 | 2 10 | 0 46 | 18 1 | 0 6 | 20 35 | 2 37 | 23 27 | 23 25 | 17 16 | 2 11 | 3 12 |
| F 15 | 18 30 | 12 54 | 4 53 | 24 59 | 2 32 | 17 32 | 0 36 | 16 44 | 0 5 | 23 5 | 0 11 | 11 29 | 2 39 | 2 11 | 0 46 | 18 1 | 0 6 | 20 35 | 2 37 | 23 27 | 23 25 | 17 18 | 2 10 | 3 11 |
| S 16 | 18 45 | 17 46 | 4 17 | 25 9 | 2 33 | 17 54 | 0 34 | 16 57 | 0 5 | 23 6 | 0 11 | 11 27 | 2 39 | 2 11 | 0 46 | 18 1 | 0 6 | 20 36 | 2 37 | 23 28 | 23 25 | 17 20 | 2 9 | 3 11 |
| S 17 | 19 0 | 21 30 | 3 22 | 25 17 | 2 33 | 18 15 | 0 31 | 17 9 | 0 4 | 23 7 | 0 11 | 11 26 | 2 39 | 2 11 | 0 46 | 18 0 | 0 6 | 20 36 | 2 37 | 23 28 | 23 25 | 17 22 | 2 9 | 3 11 |
| M18 | 19 15 | 23 42 | 2 14 | 25 24 | 2 32 | 18 35 | 0 29 | 17 21 | 0 3 | 23 8 | 0 11 | 11 25 | 2 39 | 2 12 | 0 46 | 18 0 | 0 6 | 20 36 | 2 37 | 23 28 | 23 25 | 17 24 | 2 8 | 3 11 |
| T 19 | 19 29 | 24 10 | 0 57 | 25 29 | 2 31 | 18 56 | 0 27 | 17 33 | 0 3 | 23 8 | 0 11 | 11 23 | 2 39 | 2 12 | 0 46 | 18 0 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 26 | 2 7 | 3 10 |
| W20 | 19 43 | 22 58 | 0n22 | 25 33 | 2 29 | 19 15 | 0 25 | 17 45 | 0 2 | 23 9 | 0 10 | 11 22 | 2 39 | 2 12 | 0 46 | 18 0 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 27 | 2 7 | 3 10 |
| T 21 | 19 56 | 20 21 | 1 37 | 25 35 | 2 27 | 19 34 | 0 22 | 17 57 | 0 2 | 23 10 | 0 10 | 11 21 | 2 39 | 2 12 | 0 45 | 17 59 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 29 | 2 6 | 3 10 |
| F 22 | 20 9 | 16 40 | 2 44 | 25 36 | 2 23 | 19 53 | 0 20 | 18 9 | 0 1 | 23 11 | 0 10 | 11 19 | 2 38 | 2 13 | 0 45 | 17 59 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 31 | 2 6 | 3 10 |
| S 23 | 20 22 | 12 17 | 3 40 | 25 35 | 2 19 | 20 11 | 0 18 | 18 21 | 0 0 | 23 11 | 0 10 | 11 18 | 2 38 | 2 13 | 0 45 | 17 59 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 33 | 2 5 | 3 10 |
| S 24 | 20 34 | 7 29 | 4 24 | 25 32 | 2 13 | 20 28 | 0 15 | 18 32 | 0s 0 | 23 12 | 0 10 | 11 17 | 2 38 | 2 13 | 0 45 | 17 59 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 35 | 2 4 | 3 9 |
| M25 | 20 46 | 2 31 | 4 54 | 25 28 | 2 7 | 20 45 | 0 13 | 18 43 | 0 1 | 23 13 | 0 10 | 11 16 | 2 38 | 2 13 | 0 45 | 17 58 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 37 | 2 4 | 3 9 |
| T 26 | 20 58 | 2n27 | 5 10 | 25 22 | 1 59 | 21 1 | 0 11 | 18 54 | 0 1 | 23 13 | 0 10 | 11 15 | 2 38 | 2 13 | 0 45 | 17 58 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 38 | 2 3 | 3 9 |
| W27 | 21 9 | 7 16 | 5 13 | 25 14 | 1 51 | 21 17 | 0 8 | 19 5 | 0 2 | 23 14 | 0 10 | 11 14 | 2 38 | 2 14 | 0 45 | 17 58 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 40 | 2 3 | 3 9 |
| T 28 | 21 20 | 11 46 | 5 1 | 25 5 | 1 40 | 21 31 | 0 6 | 19 16 | 0 3 | 23 14 | 0 10 | 11 12 | 2 37 | 2 14 | 0 45 | 17 57 | 0 6 | 20 36 | 2 37 | 23 28 | 23 26 | 17 42 | 2 2 | 3 8 |
| F 29 | 21 30 | 15 48 | 4 37 | 24 54 | 1 29 | 21 46 | 0 3 | 19 27 | 0 3 | 23 15 | 0 9 | 11 11 | 2 37 | 2 14 | 0 45 | 17 57 | 0 6 | 20 37 | 2 37 | 23 28 | 23 26 | 17 44 | 2 2 | 3 8 |
| S 30 | 21s40 | 19n14 | 4n 1 | 24s41 | 1s16 | 22s 0 | 0n 1 | 19s37 | 0s 4 | 23s16 | 0n 9 | 11n10 | 2s37 | 2s14 | 0s45 | 17s57 | 0s 6 | 20n37 | 2s37 | 23s28 | 23s27 | 17n46 | 2n 2 | 3n 8 |

Julian Day Number = 2333145.5, Delta T = 26.11 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'55, Lahiri = 19°19'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1675
# geocentric

## DECEMBER 1675 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 39 32 | 8♐58'34 | 23♉44 | 26°R 1 | 11♐24 | 27♏52 | 26♐ 2 | 6°R14 | 26°R 7 | 9♒44 | 8°R15 | 1°R58 | 3♑11 | 6♉35 | 27°R52 | S 1 |
| M 2 | 4 43 28 | 9°59'29 | 5♊43 | 25♐48 | 12°39 | 28°35 | 26°15 | 6♉10 | 26♓ 7 | 9°45 | 8♋14 | 1♑55 | 3° 8 | 6°41 | 27♓52 | M 2 |
| T 3 | 4 47 25 | 11° 0'25 | 17°48 | 25°24 | 13°55 | 29°18 | 26°29 | 6° 7 | 26° 7 | 9°46 | 8°13 | 1°53 | 3° 5 | 6°48 | 27°51 | T 3 |
| W 4 | 4 51 22 | 12° 1'22 | 0♋ 1 | 24°48 | 15°10 | 0♐ 1 | 26°42 | 6° 3 | 26° 7 | 9°48 | 8°12 | 1°D52 | 3° 1 | 6°55 | 27°51 | W 4 |
| T 5 | 4 55 18 | 13° 2'21 | 12°23 | 24° 0 | 16°26 | 0°44 | 26°56 | 6° 0 | 26°D 7 | 9°49 | 8°11 | 1°52 | 2°58 | 7° 1 | 27°51 | T 5 |
| F 6 | 4 59 15 | 14° 3'20 | 24°57 | 23° 3 | 17°41 | 1°26 | 27°10 | 5°57 | 26° 7 | 9°51 | 8°10 | 1°53 | 2°55 | 7° 8 | 27°50 | F 6 |
| S 7 | 5 3 11 | 15° 4'20 | 7♌43 | 21°56 | 18°57 | 2° 9 | 27°23 | 5°54 | 26° 7 | 9°52 | 8° 8 | 1°55 | 2°52 | 7°15 | 27°50 | S 7 |
| S 8 | 5 7 8 | 16° 5'21 | 20°45 | 20°41 | 20°12 | 2°52 | 27°37 | 5°50 | 26° 7 | 9°54 | 8° 7 | 1°56 | 2°49 | 7°22 | 27°50 | S 8 |
| M 9 | 5 11 4 | 17° 6'23 | 4♍ 4 | 19°21 | 21°28 | 3°36 | 27°50 | 5°47 | 26° 7 | 9°55 | 8° 6 | 1°57 | 2°45 | 7°28 | 27°D50 | M 9 |
| T 10 | 5 15 1 | 18° 7'26 | 17°42 | 17°58 | 22°43 | 4°19 | 28° 4 | 5°44 | 26° 8 | 9°57 | 8° 5 | 1°R58 | 2°42 | 7°35 | 27°50 | T 10 |
| W11 | 5 18 58 | 19° 8'30 | 1♎39 | 16°36 | 23°58 | 5° 2 | 28°18 | 5°42 | 26° 8 | 9°58 | 8° 4 | 1°57 | 2°39 | 7°42 | 27°50 | W11 |
| T 12 | 5 22 54 | 20° 9'35 | 15°55 | 15°16 | 25°14 | 5°45 | 28°32 | 5°39 | 26° 8 | 10° 0 | 8° 3 | 1°56 | 2°36 | 7°48 | 27°50 | T 12 |
| F 13 | 5 26 51 | 21°10'42 | 0♏29 | 14° 1 | 26°29 | 6°28 | 28°45 | 5°36 | 26° 9 | 10° 2 | 8° 2 | 1°55 | 2°33 | 7°55 | 27°51 | F 13 |
| S 14 | 5 30 47 | 22°11'49 | 15°14 | 12°55 | 27°45 | 7°12 | 28°59 | 5°34 | 26° 9 | 10° 3 | 8° 0 | 1°54 | 2°30 | 8° 2 | 27°51 | S 14 |
| S 15 | 5 34 44 | 23°12'57 | 0♐ 6 | 11°57 | 29° 0 | 7°55 | 29°13 | 5°31 | 26° 9 | 10° 5 | 7°59 | 1°53 | 2°26 | 8° 8 | 27°51 | S 15 |
| M16 | 5 38 40 | 24°14'05 | 14°56 | 11° 9 | 0♑16 | 8°38 | 29°27 | 5°29 | 26°10 | 10° 7 | 7°58 | 1°52 | 2°23 | 8°15 | 27°52 | M16 |
| T 17 | 5 42 37 | 25°15'14 | 29°37 | 10°33 | 1°31 | 9°22 | 29°41 | 5°26 | 26°11 | 10° 8 | 7°57 | 1°D52 | 2°20 | 8°22 | 27°52 | T 17 |
| W18 | 5 46 33 | 26°16'24 | 14♑ 2 | 10° 7 | 2°47 | 10° 5 | 29°54 | 5°24 | 26°11 | 10°10 | 7°56 | 1°52 | 2°17 | 8°29 | 27°52 | W18 |
| T 19 | 5 50 30 | 27°17'34 | 28° 6 | 9°51 | 4° 2 | 10°49 | 0♑ 8 | 5°22 | 26°12 | 10°12 | 7°54 | 1°52 | 2°14 | 8°35 | 27°53 | T 19 |
| F 20 | 5 54 27 | 28°18'44 | 11♒45 | 9°D47 | 5°18 | 11°33 | 0°22 | 5°20 | 26°13 | 10°14 | 7°53 | 1°53 | 2°11 | 8°42 | 27°54 | F 20 |
| S 21 | 5 58 23 | 29°19'54 | 24°59 | 9°51 | 6°33 | 12°16 | 0°36 | 5°18 | 26°13 | 10°16 | 7°52 | 1°53 | 2° 7 | 8°49 | 27°54 | S 21 |
| S 22 | 6 2 20 | 0♑21'04 | 7♓49 | 10° 4 | 7°49 | 13° 0 | 0°50 | 5°17 | 26°14 | 10°17 | 7°51 | 1°53 | 2° 4 | 8°55 | 27°55 | S 22 |
| M23 | 6 6 16 | 1°22'14 | 20°19 | 10°26 | 9° 4 | 13°44 | 1° 4 | 5°15 | 26°15 | 10°19 | 7°49 | 1°53 | 2° 1 | 9° 2 | 27°56 | M23 |
| T 24 | 6 10 13 | 2°23'24 | 2♈32 | 10°55 | 10°19 | 14°27 | 1°17 | 5°13 | 26°16 | 10°21 | 7°48 | 1°53 | 1°58 | 9° 9 | 27°57 | T 24 |
| W25 | 6 14 9 | 3°24'34 | 14°33 | 11°30 | 11°35 | 15°11 | 1°31 | 5°12 | 26°17 | 10°23 | 7°47 | 1°53 | 1°55 | 9°15 | 27°58 | W25 |
| T 26 | 6 18 6 | 4°25'44 | 26°26 | 12°11 | 12°50 | 15°55 | 1°45 | 5°11 | 26°18 | 10°25 | 7°46 | 1°54 | 1°51 | 9°22 | 27°58 | T 26 |
| F 27 | 6 22 2 | 5°26'54 | 8♉17 | 12°58 | 14° 6 | 16°39 | 1°59 | 5° 9 | 26°19 | 10°27 | 7°44 | 1°54 | 1°48 | 9°29 | 27°59 | F 27 |
| S 28 | 6 25 59 | 6°28'04 | 20° 8 | 13°49 | 15°21 | 17°23 | 2°13 | 5° 8 | 26°20 | 10°29 | 7°43 | 1°54 | 1°45 | 9°35 | 28° 1 | S 28 |
| S 29 | 6 29 56 | 7°29'13 | 2♊ 5 | 14°44 | 16°36 | 18° 7 | 2°27 | 5° 7 | 26°21 | 10°31 | 7°42 | 1°55 | 1°42 | 9°42 | 28° 2 | S 29 |
| M30 | 6 33 52 | 8°30'22 | 14°10 | 15°43 | 17°52 | 18°51 | 2°40 | 5° 6 | 26°23 | 10°33 | 7°41 | 1°56 | 1°39 | 9°49 | 28° 3 | M30 |
| T 31 | 6 37 49 | 9♑31'32 | 26♊25 | 16♐46 | 19♑ 7 | 19♐35 | 2♑54 | 5♉ 6 | 26♓24 | 10♒35 | 7♋39 | 1°R56 | 1♑36 | 9♉56 | 28♓ 4 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 21s50 | 21n53 | 3n15 | 24s27 | 1s 2 | 22s13 | 0s 1 | 19s48 | 0s 4 | 23s16 | 0n 9 | 11n 9 | 2s37 | 2s14 | 0s45 | 17s56 | 0s 6 | 20n37 | 2s37 | 23s28 | 23s27 | 17n47 | 2n 1 | 3n 8 |
| M 2 | 21 59 | 23 35 | 2 19 | 24 11 | 0 46 | 22 25 | 0 4 | 19 58 | 0 5 | 23 17 | 0 9 | 11 8 | 2 37 | 2 14 | 0 45 | 17 56 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 17 49 | 2 1 | 3 7 |
| T 3 | 22 8 | 24 12 | 1 17 | 23 53 | 0 29 | 22 37 | 0 6 | 20 8 | 0 6 | 23 17 | 0 9 | 11 7 | 2 36 | 2 14 | 0 45 | 17 56 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 17 51 | 2 0 | 3 7 |
| W 4 | 22 16 | 23 39 | 0 10 | 23 33 | 0 11 | 22 48 | 0 9 | 20 17 | 0 6 | 23 17 | 0 9 | 11 6 | 2 36 | 2 14 | 0 45 | 17 55 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 17 53 | 2 0 | 3 7 |
| T 5 | 22 24 | 21 57 | 0s58 | 23 12 | 0n 9 | 22 58 | 0 11 | 20 27 | 0 7 | 23 18 | 0 9 | 11 6 | 2 36 | 2 14 | 0 45 | 17 55 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 17 55 | 2 0 | 3 7 |
| F 6 | 22 32 | 19 9 | 2 4 | 22 49 | 0 29 | 23 8 | 0 13 | 20 36 | 0 8 | 23 18 | 0 9 | 11 5 | 2 36 | 2 14 | 0 45 | 17 54 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 17 56 | 1 59 | 3 6 |
| S 7 | 22 39 | 15 23 | 3 6 | 22 25 | 0 49 | 23 17 | 0 16 | 20 46 | 0 8 | 23 19 | 0 9 | 11 4 | 2 35 | 2 14 | 0 45 | 17 54 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 17 58 | 1 59 | 3 6 |
| S 8 | 22 45 | 10 50 | 3 59 | 22 0 | 1 9 | 23 25 | 0 18 | 20 55 | 0 9 | 23 19 | 0 9 | 11 3 | 2 35 | 2 14 | 0 45 | 17 54 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 18 0 | 1 59 | 3 6 |
| M 9 | 22 51 | 5 41 | 4 40 | 21 35 | 1 29 | 23 33 | 0 20 | 21 4 | 0 9 | 23 19 | 0 8 | 11 2 | 2 35 | 2 14 | 0 45 | 17 53 | 0 6 | 20 37 | 2 37 | 23 28 | 23 27 | 18 2 | 1 59 | 3 6 |
| T 10 | 22 57 | 0 10 | 5 7 | 21 10 | 1 47 | 23 40 | 0 23 | 21 12 | 0 10 | 23 20 | 0 8 | 11 2 | 2 35 | 2 14 | 0 45 | 17 53 | 0 6 | 20 38 | 2 37 | 23 28 | 23 27 | 18 3 | 1 58 | 3 5 |
| W11 | 23 2 | 5s30 | 5 17 | 20 45 | 2 4 | 23 46 | 0 25 | 21 21 | 0 11 | 23 20 | 0 8 | 11 1 | 2 34 | 2 13 | 0 45 | 17 52 | 0 6 | 20 38 | 2 37 | 23 28 | 23 27 | 18 5 | 1 58 | 3 5 |
| T 12 | 23 7 | 11 0 | 5 7 | 20 22 | 2 19 | 23 51 | 0 27 | 21 29 | 0 11 | 23 20 | 0 8 | 11 0 | 2 34 | 2 13 | 0 45 | 17 52 | 0 6 | 20 38 | 2 37 | 23 28 | 23 27 | 18 7 | 1 58 | 3 5 |
| F 13 | 23 11 | 16 0 | 4 38 | 20 1 | 2 31 | 23 56 | 0 30 | 21 37 | 0 12 | 23 20 | 0 8 | 11 0 | 2 34 | 2 13 | 0 45 | 17 52 | 0 6 | 20 38 | 2 37 | 23 28 | 23 27 | 18 8 | 1 58 | 3 5 |
| S 14 | 23 15 | 20 7 | 3 51 | 19 43 | 2 42 | 24 0 | 0 32 | 21 45 | 0 13 | 23 21 | 0 8 | 10 59 | 2 34 | 2 13 | 0 45 | 17 51 | 0 6 | 20 38 | 2 37 | 23 28 | 23 27 | 18 10 | 1 58 | 3 4 |
| S 15 | 23 18 | 22 56 | 2 47 | 19 28 | 2 49 | 24 3 | 0 34 | 21 53 | 0 13 | 23 21 | 0 8 | 10 58 | 2 33 | 2 13 | 0 45 | 17 51 | 0 6 | 20 38 | 2 37 | 23 28 | 23 28 | 18 12 | 1 58 | 3 4 |
| M16 | 23 21 | 24 10 | 1 33 | 19 16 | 2 55 | 24 5 | 0 36 | 22 1 | 0 14 | 23 21 | 0 8 | 10 58 | 2 33 | 2 12 | 0 44 | 17 50 | 0 6 | 20 38 | 2 37 | 23 28 | 23 28 | 18 14 | 1 58 | 3 4 |
| T 17 | 23 24 | 23 41 | 0 12 | 19 7 | 2 58 | 24 7 | 0 39 | 22 8 | 0 14 | 23 21 | 0 8 | 10 57 | 2 33 | 2 12 | 0 44 | 17 50 | 0 6 | 20 38 | 2 36 | 23 28 | 23 28 | 18 15 | 1 58 | 3 4 |
| W18 | 23 26 | 21 38 | 1n 7 | 19 2 | 3 0 | 24 8 | 0 41 | 22 15 | 0 15 | 23 21 | 0 8 | 10 57 | 2 33 | 2 12 | 0 44 | 17 49 | 0 6 | 20 38 | 2 36 | 23 28 | 23 28 | 18 17 | 1 58 | 3 4 |
| T 19 | 23 27 | 18 17 | 2 21 | 19 1 | 2 59 | 24 8 | 0 43 | 22 22 | 0 16 | 23 21 | 0 7 | 10 56 | 2 32 | 2 12 | 0 44 | 17 49 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 19 | 1 58 | 3 3 |
| F 20 | 23 28 | 14 2 | 3 24 | 19 2 | 2 58 | 24 8 | 0 45 | 22 29 | 0 16 | 23 21 | 0 7 | 10 56 | 2 32 | 2 11 | 0 44 | 17 48 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 20 | 1 58 | 3 3 |
| S 21 | 23 29 | 9 13 | 4 14 | 19 6 | 2 54 | 24 6 | 0 47 | 22 35 | 0 17 | 23 22 | 0 7 | 10 56 | 2 32 | 2 11 | 0 44 | 17 48 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 22 | 1 58 | 3 3 |
| S 22 | 23 29 | 4 10 | 4 50 | 19 12 | 2 50 | 24 4 | 0 49 | 22 41 | 0 18 | 23 22 | 0 7 | 10 55 | 2 32 | 2 11 | 0 44 | 17 47 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 24 | 1 58 | 3 3 |
| M23 | 23 28 | 0n56 | 5 11 | 19 20 | 2 45 | 24 1 | 0 51 | 22 47 | 0 18 | 23 22 | 0 7 | 10 55 | 2 31 | 2 10 | 0 44 | 17 47 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 25 | 1 58 | 3 2 |
| T 24 | 23 28 | 5 52 | 5 18 | 19 30 | 2 38 | 23 58 | 0 53 | 22 53 | 0 19 | 23 21 | 0 7 | 10 55 | 2 31 | 2 10 | 0 44 | 17 46 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 27 | 1 58 | 3 2 |
| W25 | 23 26 | 10 30 | 5 10 | 19 42 | 2 32 | 23 53 | 0 55 | 22 59 | 0 20 | 23 21 | 0 7 | 10 55 | 2 31 | 2 9 | 0 44 | 17 46 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 29 | 1 58 | 3 2 |
| T 26 | 23 24 | 14 42 | 4 49 | 19 55 | 2 24 | 23 48 | 0 57 | 23 4 | 0 20 | 23 21 | 0 7 | 10 54 | 2 30 | 2 9 | 0 44 | 17 45 | 0 6 | 20 39 | 2 36 | 23 28 | 23 28 | 18 30 | 1 58 | 3 2 |
| F 27 | 23 22 | 18 19 | 4 16 | 20 8 | 2 17 | 23 43 | 0 59 | 23 9 | 0 21 | 23 21 | 0 7 | 10 54 | 2 30 | 2 8 | 0 44 | 17 45 | 0 6 | 20 40 | 2 36 | 23 28 | 23 28 | 18 32 | 1 58 | 3 1 |
| S 28 | 23 19 | 21 12 | 3 32 | 20 22 | 2 8 | 23 36 | 1 1 | 23 14 | 0 21 | 23 21 | 0 7 | 10 54 | 2 30 | 2 8 | 0 44 | 17 44 | 0 6 | 20 40 | 2 36 | 23 28 | 23 28 | 18 34 | 1 59 | 3 1 |
| S 29 | 23 16 | 23 12 | 2 38 | 20 37 | 2 0 | 23 29 | 1 3 | 23 19 | 0 22 | 23 21 | 0 7 | 10 54 | 2 30 | 2 7 | 0 44 | 17 44 | 0 6 | 20 40 | 2 36 | 23 28 | 23 28 | 18 35 | 1 59 | 3 1 |
| M30 | 23 12 | 24 9 | 1 37 | 20 52 | 1 52 | 23 21 | 1 4 | 23 23 | 0 23 | 23 21 | 0 6 | 10 54 | 2 29 | 2 7 | 0 44 | 17 43 | 0 6 | 20 40 | 2 36 | 23 28 | 23 28 | 18 37 | 1 59 | 3 1 |
| T 31 | 23s 8 | 23n56 | 0n31 | 21s 7 | 1n43 | 23s12 | 1s 6 | 23s28 | 0s23 | 23s21 | 0n 6 | 10n54 | 2s29 | 2s 6 | 0s44 | 17s43 | 0s 6 | 20n40 | 2s36 | 23s28 | 23s28 | 18n39 | 1n59 | 3n 0 | |

Julian Day Number = 2333175.5, Delta T = 26.06 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°12'59, Lahiri = 19°20'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## JANUARY 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 41 45 | 10♑32'41 | 8♋53 | 17♐51 | 20♑23 | 20♐19 | 3♑ 8 | 5°R 5 | 26♓25 | 10♒37 | 7°R38 | 1°R56 | 1♑32 | 10♉ 2 | 28♓ 5 | W 1 |
| T 2 | 6 45 42 | 11°33'50 | 21°35 | 18°59 | 21°38 | 21° 3 | 3°22 | 5♉ 5 | 26°27 | 10°39 | 7♋37 | 1♑55 | 1°29 | 10° 9 | 28° 7 | T 2 |
| F 3 | 6 49 38 | 12°34'59 | 4♌30 | 20° 9 | 22°53 | 21°47 | 3°36 | 5° 4 | 26°28 | 10°41 | 7°36 | 1°54 | 1°26 | 10°16 | 28° 8 | F 3 |
| S 4 | 6 53 35 | 13°36'07 | 17°39 | 21°21 | 24° 9 | 22°31 | 3°49 | 5° 4 | 26°30 | 10°43 | 7°34 | 1°53 | 1°23 | 10°22 | 28° 9 | S 4 |
| S 5 | 6 57 31 | 14°37'16 | 1♍ 1 | 22°35 | 25°24 | 23°16 | 4° 3 | 5° 4 | 26°31 | 10°45 | 7°33 | 1°51 | 1°20 | 10°29 | 28°11 | S 5 |
| M 6 | 7 1 28 | 15°38'25 | 14°36 | 23°51 | 26°39 | 24° 0 | 4°17 | 5°D 3 | 26°33 | 10°47 | 7°32 | 1°49 | 1°17 | 10°36 | 28°12 | M 6 |
| T 7 | 7 5 25 | 16°39'33 | 28°22 | 25° 8 | 27°55 | 24°44 | 4°31 | 5° 3 | 26°34 | 10°49 | 7°31 | 1°48 | 1°13 | 10°42 | 28°14 | T 7 |
| W 8 | 7 9 21 | 17°40'41 | 12♎19 | 26°27 | 29°10 | 25°29 | 4°44 | 5° 4 | 26°36 | 10°51 | 7°30 | 1°D47 | 1°10 | 10°49 | 28°16 | W 8 |
| T 9 | 7 13 18 | 18°41'50 | 26°25 | 27°47 | 0♒25 | 26°13 | 4°58 | 5° 4 | 26°38 | 10°54 | 7°28 | 1°47 | 1° 7 | 10°56 | 28°17 | T 9 |
| F 10 | 7 17 14 | 19°42'58 | 10♏40 | 29° 8 | 1°40 | 26°57 | 5°12 | 5° 4 | 26°39 | 10°56 | 7°27 | 1°48 | 1° 4 | 11° 2 | 28°19 | F 10 |
| S 11 | 7 21 11 | 20°44'06 | 25° 0 | 0♑30 | 2°56 | 27°42 | 5°25 | 5° 5 | 26°41 | 10°58 | 7°26 | 1°49 | 1° 1 | 11° 9 | 28°21 | S 11 |
| S 12 | 7 25 7 | 21°45'14 | 9♐22 | 1°53 | 4°11 | 28°27 | 5°39 | 5° 5 | 26°43 | 11° 0 | 7°25 | 1°51 | 0°57 | 11°16 | 28°23 | S 12 |
| M13 | 7 29 4 | 22°46'22 | 23°44 | 3°17 | 5°26 | 29°11 | 5°53 | 5° 6 | 26°45 | 11° 2 | 7°23 | 1°52 | 0°54 | 11°23 | 28°25 | M13 |
| T 14 | 7 33 0 | 23°47'29 | 8♑ 0 | 4°42 | 6°42 | 29°56 | 6° 6 | 5° 7 | 26°47 | 11° 4 | 7°22 | 1°R52 | 0°51 | 11°29 | 28°27 | T 14 |
| W15 | 7 36 57 | 24°48'36 | 22° 6 | 6° 8 | 7°57 | 0♑40 | 6°20 | 5° 8 | 26°49 | 11° 7 | 7°21 | 1°51 | 0°48 | 11°36 | 28°29 | W15 |
| T 16 | 7 40 54 | 25°49'42 | 5♒57 | 7°34 | 9°12 | 1°25 | 6°33 | 5° 9 | 26°51 | 11° 9 | 7°20 | 1°48 | 0°45 | 11°43 | 28°31 | T 16 |
| F 17 | 7 44 50 | 26°50'48 | 19°30 | 9° 2 | 10°27 | 2°10 | 6°47 | 5°10 | 26°53 | 11°11 | 7°19 | 1°45 | 0°42 | 11°49 | 28°33 | F 17 |
| S 18 | 7 48 47 | 27°51'52 | 2♓43 | 10°30 | 11°42 | 2°55 | 7° 0 | 5°11 | 26°55 | 11°13 | 7°18 | 1°40 | 0°38 | 11°56 | 28°35 | S 18 |
| S 19 | 7 52 43 | 28°52'55 | 15°35 | 11°59 | 12°58 | 3°40 | 7°13 | 5°12 | 26°57 | 11°16 | 7°16 | 1°36 | 0°35 | 12° 3 | 28°37 | S 19 |
| M20 | 7 56 40 | 29°53'58 | 28° 7 | 13°28 | 14°13 | 4°24 | 7°27 | 5°14 | 26°59 | 11°18 | 7°15 | 1°32 | 0°32 | 12° 9 | 28°39 | M20 |
| T 21 | 8 0 36 | 0♒54'59 | 10♈23 | 14°58 | 15°28 | 5° 9 | 7°40 | 5°15 | 27° 1 | 11°20 | 7°14 | 1°29 | 0°29 | 12°16 | 28°41 | T 21 |
| W22 | 8 4 33 | 1°55'59 | 22°26 | 16°29 | 16°43 | 5°54 | 7°53 | 5°17 | 27° 4 | 11°22 | 7°13 | 1°27 | 0°26 | 12°23 | 28°44 | W22 |
| T 23 | 8 8 29 | 2°56'59 | 4♉20 | 18° 1 | 17°58 | 6°39 | 8° 7 | 5°19 | 27° 6 | 11°25 | 7°12 | 1°D26 | 0°23 | 12°29 | 28°46 | T 23 |
| F 24 | 8 12 26 | 3°57'57 | 16°10 | 19°33 | 19°13 | 7°24 | 8°20 | 5°21 | 27° 8 | 11°27 | 7°11 | 1°27 | 0°19 | 12°36 | 28°48 | F 24 |
| S 25 | 8 16 23 | 4°58'53 | 28° 2 | 21° 6 | 20°28 | 8° 9 | 8°33 | 5°23 | 27°11 | 11°29 | 7°10 | 1°29 | 0°16 | 12°43 | 28°51 | S 25 |
| S 26 | 8 20 19 | 5°59'49 | 10♊ 0 | 22°39 | 21°43 | 8°54 | 8°46 | 5°25 | 27°13 | 11°31 | 7° 9 | 1°31 | 0°13 | 12°50 | 28°53 | S 26 |
| M27 | 8 24 16 | 7° 0'43 | 22° 8 | 24°14 | 22°58 | 9°39 | 8°59 | 5°27 | 27°16 | 11°34 | 7° 8 | 1°32 | 0°10 | 12°56 | 28°56 | M27 |
| T 28 | 8 28 12 | 8° 1'36 | 4♋31 | 25°48 | 24°13 | 10°24 | 9°12 | 5°30 | 27°18 | 11°36 | 7° 7 | 1°R32 | 0° 7 | 13° 3 | 28°58 | T 28 |
| W29 | 8 32 9 | 9° 2'28 | 17°12 | 27°24 | 25°28 | 11°10 | 9°25 | 5°32 | 27°21 | 11°38 | 7° 5 | 1°31 | 0° 3 | 13°10 | 29° 1 | W29 |
| T 30 | 8 36 5 | 10° 3'19 | 0♌11 | 29° 0 | 26°43 | 11°55 | 9°38 | 5°35 | 27°23 | 11°40 | 7° 4 | 1°28 | 0° 0 | 13°16 | 29° 4 | T 30 |
| F 31 | 8 40 2 | 11♒ 4'08 | 13♌30 | 0♒38 | 27♒58 | 12♑40 | 9♑51 | 5♉37 | 27♓26 | 11♒43 | 7♋ 3 | 1♑23 | 29♐57 | 13♉23 | 29♓ 6 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s 4 | 22n33 | 0s39 | 21s22 | 1n34 | 23s 3 | 1s 8 | 23s32 | 0s24 | 23s20 | 0n 6 | 10n54 | 2s29 | 2s 6 | 0s44 | 17s42 | 0s 6 | 20n40 | 2s36 | 23s28 | 23s28 | 18n40 | 2n 0 | 3n 0 |
| T 2 | 22 59 | 19 59 | 1 47 | 21 36 | 1 25 | 22 53 | 1 9 | 23 35 | 0 25 | 23 20 | 0 6 | 10 54 | 2 28 | 2 5 | 0 44 | 17 42 | 0 6 | 20 40 | 2 36 | 23 28 | 23 28 | 18 42 | 2 0 | 3 0 |
| F 3 | 22 53 | 16 24 | 2 51 | 21 51 | 1 17 | 22 42 | 1 11 | 23 39 | 0 25 | 23 20 | 0 6 | 10 54 | 2 28 | 2 5 | 0 44 | 17 41 | 0 6 | 20 41 | 2 36 | 23 28 | 23 28 | 18 44 | 2 0 | 3 0 |
| S 4 | 22 47 | 11 58 | 3 47 | 22 4 | 1 8 | 22 31 | 1 12 | 23 42 | 0 26 | 23 20 | 0 6 | 10 55 | 2 28 | 2 4 | 0 44 | 17 41 | 0 6 | 20 41 | 2 35 | 23 28 | 23 28 | 18 45 | 2 1 | 2 59 |
| S 5 | 22 41 | 6 54 | 4 32 | 22 17 | 0 59 | 22 18 | 1 14 | 23 45 | 0 27 | 23 19 | 0 6 | 10 55 | 2 27 | 2 3 | 0 44 | 17 40 | 0 6 | 20 41 | 2 35 | 23 28 | 23 28 | 18 47 | 2 1 | 2 59 |
| M 6 | 22 34 | 1 26 | 5 2 | 22 30 | 0 50 | 22 6 | 1 15 | 23 48 | 0 27 | 23 19 | 0 6 | 10 55 | 2 27 | 2 3 | 0 44 | 17 39 | 0 6 | 20 41 | 2 35 | 23 28 | 23 29 | 18 48 | 2 1 | 2 59 |
| T 7 | 22 26 | 4s10 | 5 16 | 22 42 | 0 42 | 21 52 | 1 17 | 23 50 | 0 28 | 23 19 | 0 6 | 10 55 | 2 27 | 2 2 | 0 44 | 17 39 | 0 6 | 20 41 | 2 35 | 23 28 | 23 29 | 18 50 | 2 2 | 2 59 |
| W 8 | 22 19 | 9 38 | 5 11 | 22 53 | 0 33 | 21 38 | 1 18 | 23 53 | 0 28 | 23 18 | 0 6 | 10 56 | 2 27 | 2 1 | 0 44 | 17 38 | 0 6 | 20 41 | 2 35 | 23 28 | 23 29 | 18 52 | 2 2 | 2 59 |
| T 9 | 22 10 | 14 40 | 4 48 | 23 3 | 0 25 | 21 23 | 1 19 | 23 55 | 0 29 | 23 18 | 0 6 | 10 56 | 2 26 | 2 1 | 0 44 | 17 38 | 0 6 | 20 41 | 2 35 | 23 28 | 23 29 | 18 53 | 2 3 | 2 58 |
| F 10 | 22 2 | 18 57 | 4 6 | 23 12 | 0 17 | 21 8 | 1 20 | 23 57 | 0 30 | 23 17 | 0 5 | 10 56 | 2 26 | 2 0 | 0 44 | 17 37 | 0 6 | 20 41 | 2 35 | 23 28 | 23 29 | 18 55 | 2 3 | 2 58 |
| S 11 | 21 53 | 22 7 | 3 10 | 23 20 | 0 8 | 20 52 | 1 21 | 23 58 | 0 30 | 23 17 | 0 5 | 10 57 | 2 26 | 1 59 | 0 43 | 17 37 | 0 6 | 20 42 | 2 35 | 23 28 | 23 29 | 18 56 | 2 4 | 2 58 |
| S 12 | 21 43 | 23 53 | 2 1 | 23 28 | 0 1 | 20 35 | 1 23 | 23 59 | 0 31 | 23 16 | 0 5 | 10 57 | 2 25 | 1 58 | 0 43 | 17 36 | 0 6 | 20 42 | 2 35 | 23 28 | 23 29 | 18 58 | 2 4 | 2 58 |
| M13 | 21 33 | 24 5 | 0 45 | 23 34 | 0s 7 | 20 18 | 1 24 | 24 0 | 0 32 | 23 16 | 0 5 | 10 58 | 2 25 | 1 58 | 0 43 | 17 35 | 0 6 | 20 42 | 2 35 | 23 28 | 23 29 | 19 0 | 2 5 | 2 57 |
| T 14 | 21 23 | 22 41 | 0n34 | 23 39 | 0 15 | 20 0 | 1 24 | 24 1 | 0 32 | 23 15 | 0 5 | 10 58 | 2 25 | 1 57 | 0 43 | 17 35 | 0 6 | 20 42 | 2 35 | 23 28 | 23 29 | 19 1 | 2 5 | 2 57 |
| W15 | 21 12 | 19 52 | 1 49 | 23 43 | 0 22 | 19 41 | 1 25 | 24 2 | 0 33 | 23 15 | 0 5 | 10 59 | 2 24 | 1 56 | 0 43 | 17 34 | 0 6 | 20 42 | 2 35 | 23 28 | 23 29 | 19 3 | 2 6 | 2 57 |
| T 16 | 21 1 | 15 58 | 2 57 | 23 45 | 0 30 | 19 22 | 1 26 | 24 2 | 0 34 | 23 14 | 0 5 | 11 0 | 2 24 | 1 55 | 0 43 | 17 34 | 0 6 | 20 42 | 2 35 | 23 28 | 23 29 | 19 4 | 2 7 | 2 57 |
| F 17 | 20 49 | 11 19 | 3 53 | 23 47 | 0 37 | 19 3 | 1 27 | 24 2 | 0 34 | 23 14 | 0 5 | 11 0 | 2 24 | 1 54 | 0 43 | 17 33 | 0 6 | 20 42 | 2 35 | 23 28 | 23 29 | 19 6 | 2 7 | 2 57 |
| S 18 | 20 38 | 6 15 | 4 35 | 23 47 | 0 43 | 18 43 | 1 28 | 24 2 | 0 35 | 23 13 | 0 5 | 11 1 | 2 24 | 1 53 | 0 43 | 17 32 | 0 6 | 20 43 | 2 34 | 23 28 | 23 29 | 19 7 | 2 8 | 2 56 |
| S 19 | 20 25 | 1 4 | 5 1 | 23 46 | 0 50 | 18 22 | 1 28 | 24 1 | 0 36 | 23 12 | 0 5 | 11 2 | 2 23 | 1 52 | 0 43 | 17 32 | 0 6 | 20 43 | 2 34 | 23 28 | 23 29 | 19 9 | 2 9 | 2 56 |
| M20 | 20 12 | 4n 2 | 5 13 | 23 44 | 0 56 | 18 1 | 1 29 | 24 1 | 0 36 | 23 12 | 0 4 | 11 3 | 2 23 | 1 52 | 0 43 | 17 31 | 0 6 | 20 43 | 2 34 | 23 28 | 23 29 | 19 10 | 2 9 | 2 56 |
| T 21 | 19 59 | 8 52 | 5 10 | 23 41 | 1 3 | 17 39 | 1 29 | 24 0 | 0 37 | 23 11 | 0 4 | 11 3 | 2 23 | 1 51 | 0 43 | 17 31 | 0 6 | 20 43 | 2 34 | 23 28 | 23 29 | 19 12 | 2 10 | 2 56 |
| W22 | 19 46 | 13 16 | 4 53 | 23 36 | 1 9 | 17 17 | 1 30 | 23 58 | 0 37 | 23 10 | 0 4 | 11 4 | 2 22 | 1 50 | 0 43 | 17 30 | 0 6 | 20 43 | 2 34 | 23 28 | 23 29 | 19 13 | 2 11 | 2 56 |
| T 23 | 19 32 | 17 7 | 4 23 | 23 30 | 1 14 | 16 54 | 1 30 | 23 57 | 0 38 | 23 10 | 0 4 | 11 5 | 2 22 | 1 49 | 0 43 | 17 29 | 0 6 | 20 43 | 2 34 | 23 28 | 23 29 | 19 15 | 2 11 | 2 55 |
| F 24 | 19 18 | 20 16 | 3 43 | 23 22 | 1 20 | 16 31 | 1 31 | 23 55 | 0 39 | 23 9 | 0 4 | 11 6 | 2 22 | 1 48 | 0 43 | 17 29 | 0 6 | 20 43 | 2 34 | 23 28 | 23 29 | 19 16 | 2 12 | 2 55 |
| S 25 | 19 3 | 22 34 | 2 53 | 23 13 | 1 25 | 16 8 | 1 31 | 23 53 | 0 39 | 23 8 | 0 4 | 11 7 | 2 21 | 1 47 | 0 43 | 17 28 | 0 6 | 20 44 | 2 34 | 23 28 | 23 29 | 19 18 | 2 13 | 2 55 |
| S 26 | 18 48 | 23 53 | 1 55 | 23 3 | 1 30 | 15 44 | 1 31 | 23 51 | 0 40 | 23 8 | 0 4 | 11 8 | 2 21 | 1 46 | 0 43 | 17 28 | 0 6 | 20 44 | 2 34 | 23 28 | 23 29 | 19 19 | 2 14 | 2 55 |
| M27 | 18 33 | 24 6 | 0 51 | 22 51 | 1 34 | 15 19 | 1 31 | 23 48 | 0 41 | 23 7 | 0 4 | 11 9 | 2 21 | 1 45 | 0 43 | 17 27 | 0 6 | 20 44 | 2 34 | 23 28 | 23 29 | 19 21 | 2 15 | 2 55 |
| T 28 | 18 18 | 23 8 | 0s16 | 22 38 | 1 39 | 14 54 | 1 31 | 23 46 | 0 41 | 23 6 | 0 4 | 11 10 | 2 21 | 1 44 | 0 43 | 17 26 | 0 6 | 20 44 | 2 34 | 23 28 | 23 29 | 19 22 | 2 15 | 2 54 |
| W29 | 18 2 | 20 59 | 1 24 | 22 24 | 1 43 | 14 29 | 1 31 | 23 42 | 0 42 | 23 5 | 0 4 | 11 11 | 2 20 | 1 43 | 0 43 | 17 26 | 0 6 | 20 44 | 2 33 | 23 28 | 23 29 | 19 24 | 2 16 | 2 54 |
| T 30 | 17 45 | 17 43 | 2 29 | 22 8 | 1 47 | 14 3 | 1 31 | 23 39 | 0 43 | 23 4 | 0 4 | 11 12 | 2 20 | 1 42 | 0 43 | 17 25 | 0 6 | 20 44 | 2 33 | 23 28 | 23 29 | 19 25 | 2 17 | 2 54 |
| F 31 | 17s29 | 13n29 | 3s28 | 21s51 | 1s50 | 13s37 | 1s31 | 23s36 | 0s43 | 23s 3 | 0n 3 | 11n13 | 2s20 | 1s41 | 0s43 | 17s24 | 0s 6 | 20n44 | 2s33 | 23s28 | 23s29 | 19n27 | 2n18 | 2n54 |

Julian Day Number = 2333206.5, Delta T = 26.01 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'04, Lahiri = 19°20'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## FEBRUARY 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 43 59 | 12♒ 4'56 | 27♌ 5 | 2♒15 | 29♒13 | 13♑25 | 10♑ 4 | 5♉40 | 27♓28 | 11♒45 | 7°R 2 | 1°R17 | 29♐54 | 13♉30 | 29♓ 9 | S 1 |
| S 2 | 8 47 55 | 13° 5'43 | 10♍56 | 3°54 | 0♓28 | 14°11 | 10°17 | 5°43 | 27°31 | 11°47 | 7♋ 1 | 1♑ 9 | 29°51 | 13°36 | 29°12 | S 2 |
| M 3 | 8 51 52 | 14° 6'29 | 24°57 | 5°33 | 1°43 | 14°56 | 10°29 | 5°46 | 27°34 | 11°50 | 7° 1 | 1° 2 | 29°48 | 13°43 | 29°15 | M 3 |
| T 4 | 8 55 48 | 15° 7'14 | 9♎ 5 | 7°13 | 2°58 | 15°41 | 10°42 | 5°49 | 27°36 | 11°52 | 7° 0 | 0°57 | 29°44 | 13°50 | 29°17 | T 4 |
| W 5 | 8 59 45 | 16° 7'57 | 23°16 | 8°54 | 4°13 | 16°27 | 10°55 | 5°52 | 27°39 | 11°54 | 6°59 | 0°52 | 29°41 | 13°56 | 29°20 | W 5 |
| T 6 | 9 3 41 | 17° 8'40 | 7♏26 | 10°36 | 5°28 | 17°12 | 11° 7 | 5°55 | 27°42 | 11°56 | 6°58 | 0°50 | 29°38 | 14° 3 | 29°23 | T 6 |
| F 7 | 9 7 38 | 18° 9'22 | 21°35 | 12°19 | 6°42 | 17°58 | 11°20 | 5°59 | 27°45 | 11°59 | 6°57 | 0°D50 | 29°35 | 14°10 | 29°26 | F 7 |
| S 8 | 9 11 34 | 19°10'02 | 5♐40 | 14° 2 | 7°57 | 18°43 | 11°32 | 6° 2 | 27°48 | 12° 1 | 6°56 | 0°50 | 29°32 | 14°16 | 29°29 | S 8 |
| S 9 | 9 15 31 | 20°10'42 | 19°40 | 15°46 | 9°12 | 19°29 | 11°44 | 6° 6 | 27°50 | 12° 3 | 6°55 | 0°52 | 29°29 | 14°23 | 29°32 | S 9 |
| M10 | 9 19 28 | 21°11'20 | 3♑35 | 17°32 | 10°27 | 20°14 | 11°57 | 6° 9 | 27°53 | 12° 5 | 6°54 | 0°R52 | 29°25 | 14°30 | 29°35 | M10 |
| T 11 | 9 23 24 | 22°11'57 | 17°22 | 19°18 | 11°41 | 21° 0 | 12° 9 | 6°13 | 27°56 | 12° 8 | 6°53 | 0°51 | 29°22 | 14°37 | 29°38 | T 11 |
| W12 | 9 27 21 | 23°12'33 | 1♒ 1 | 21° 4 | 12°56 | 21°45 | 12°21 | 6°17 | 27°59 | 12°10 | 6°53 | 0°47 | 29°19 | 14°43 | 29°41 | W12 |
| T 13 | 9 31 17 | 24°13'07 | 14°29 | 22°52 | 14°11 | 22°31 | 12°33 | 6°21 | 28° 2 | 12°12 | 6°52 | 0°41 | 29°16 | 14°50 | 29°44 | T 13 |
| F 14 | 9 35 14 | 25°13'40 | 27°44 | 24°41 | 15°25 | 23°17 | 12°45 | 6°25 | 28° 5 | 12°14 | 6°51 | 0°32 | 29°13 | 14°57 | 29°47 | F 14 |
| S 15 | 9 39 10 | 26°14'11 | 10♓44 | 26°30 | 16°40 | 24° 2 | 12°57 | 6°29 | 28° 8 | 12°17 | 6°50 | 0°22 | 29° 9 | 15° 3 | 29°51 | S 15 |
| S 16 | 9 43 7 | 27°14'40 | 23°29 | 28°21 | 17°54 | 24°48 | 13° 9 | 6°33 | 28°11 | 12°19 | 6°49 | 0°11 | 29° 6 | 15°10 | 29°54 | S 16 |
| M17 | 9 47 3 | 28°15'08 | 5♈58 | 0♓12 | 19° 9 | 25°34 | 13°21 | 6°38 | 28°14 | 12°21 | 6°49 | 0° 1 | 29° 3 | 15°17 | 29°57 | M17 |
| T 18 | 9 51 0 | 29°15'34 | 18°12 | 2° 3 | 20°23 | 26°20 | 13°32 | 6°42 | 28°17 | 12°23 | 6°48 | 29♐52 | 29° 0 | 15°23 | 0♈ 0 | T 18 |
| W19 | 9 54 56 | 0♓15'58 | 0♉14 | 3°56 | 21°38 | 27° 5 | 13°44 | 6°46 | 28°20 | 12°26 | 6°47 | 29°45 | 28°57 | 15°30 | 0° 3 | W19 |
| T 20 | 9 58 53 | 1°16'20 | 12° 8 | 5°49 | 22°52 | 27°51 | 13°55 | 6°51 | 28°24 | 12°28 | 6°47 | 29°41 | 28°54 | 15°37 | 0° 7 | T 20 |
| F 21 | 10 2 50 | 2°16'40 | 23°57 | 7°43 | 24° 7 | 28°37 | 14° 7 | 6°56 | 28°27 | 12°30 | 6°46 | 29°38 | 28°50 | 15°43 | 0°10 | F 21 |
| S 22 | 10 6 46 | 3°16'58 | 5♊47 | 9°37 | 25°21 | 29°23 | 14°18 | 7° 0 | 28°30 | 12°32 | 6°45 | 29°D38 | 28°47 | 15°50 | 0°13 | S 22 |
| S 23 | 10 10 43 | 4°17'14 | 17°44 | 11°31 | 26°35 | 0♒ 9 | 14°30 | 7° 5 | 28°33 | 12°34 | 6°45 | 29°39 | 28°44 | 15°57 | 0°17 | S 23 |
| M24 | 10 14 39 | 5°17'29 | 29°52 | 13°25 | 27°50 | 0°55 | 14°41 | 7°10 | 28°36 | 12°36 | 6°44 | 29°R39 | 28°41 | 16° 3 | 0°20 | M24 |
| T 25 | 10 18 36 | 6°17'41 | 12♋18 | 15°20 | 29° 4 | 1°41 | 14°52 | 7°15 | 28°39 | 12°38 | 6°44 | 29°38 | 28°38 | 16°10 | 0°24 | T 25 |
| W26 | 10 22 32 | 7°17'51 | 25° 4 | 17°14 | 0♈18 | 2°27 | 15° 3 | 7°20 | 28°43 | 12°41 | 6°43 | 29°35 | 28°35 | 16°17 | 0°27 | W26 |
| T 27 | 10 26 29 | 8°17'59 | 8♌14 | 19° 7 | 1°32 | 3°13 | 15°14 | 7°25 | 28°46 | 12°43 | 6°43 | 29°30 | 28°31 | 16°23 | 0°30 | T 27 |
| F 28 | 10 30 25 | 9°18'05 | 21°48 | 20°59 | 2°46 | 3°59 | 15°25 | 7°30 | 28°49 | 12°45 | 6°42 | 29°22 | 28°28 | 16°30 | 0°34 | F 28 |
| S 29 | 10 34 22 | 10♓18'09 | 5♍46 | 22♓50 | 4♈ 1 | 4♒45 | 15♑35 | 7♉36 | 28♓53 | 12♒47 | 6♋42 | 29♐12 | 28♐25 | 16♉37 | 0♈37 | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s12 | 8n29 | 4s16 | 21s32 | 1s53 | 13s11 | 1s31 | 23s32 | 0s44 | 23s 3 | 0n 3 | 11n14 | 2s19 | 1s40 | 0s43 | 17s24 | 0s 6 | 20n45 | 2s33 | 23s29 | 23s29 | 19n28 | 2n19 | 2n54 |
| S 2 | 16 55 | 3 0 | 4 50 | 21 11 | 1 56 | 12 44 | 1 31 | 23 28 | 0 44 | 23 2 | 0 3 | 11 16 | 2 19 | 1 39 | 0 43 | 17 23 | 0 6 | 20 45 | 2 33 | 23 29 | 23 29 | 19 30 | 2 20 | 2 54 |
| M 3 | 16 37 | 2s41 | 5 7 | 20 50 | 1 58 | 12 17 | 1 30 | 23 23 | 0 45 | 23 1 | 0 3 | 11 17 | 2 19 | 1 38 | 0 43 | 17 23 | 0 6 | 20 45 | 2 33 | 23 29 | 23 29 | 19 31 | 2 21 | 2 53 |
| T 4 | 16 20 | 8 17 | 5 6 | 20 26 | 2 1 | 11 50 | 1 30 | 23 19 | 0 46 | 23 0 | 0 3 | 11 18 | 2 19 | 1 36 | 0 43 | 17 22 | 0 6 | 20 45 | 2 33 | 23 29 | 23 29 | 19 33 | 2 22 | 2 53 |
| W 5 | 16 2 | 13 28 | 4 46 | 20 2 | 2 2 | 11 22 | 1 29 | 23 14 | 0 46 | 22 59 | 0 3 | 11 20 | 2 18 | 1 35 | 0 43 | 17 21 | 0 6 | 20 45 | 2 33 | 23 29 | 23 29 | 19 34 | 2 23 | 2 53 |
| T 6 | 15 43 | 17 56 | 4 8 | 19 35 | 2 4 | 10 54 | 1 29 | 23 9 | 0 47 | 22 58 | 0 3 | 11 21 | 2 18 | 1 34 | 0 43 | 17 21 | 0 6 | 20 45 | 2 33 | 23 29 | 23 29 | 19 36 | 2 24 | 2 53 |
| F 7 | 15 25 | 21 20 | 3 16 | 19 8 | 2 4 | 10 26 | 1 28 | 23 4 | 0 48 | 22 57 | 0 3 | 11 22 | 2 18 | 1 33 | 0 43 | 17 20 | 0 7 | 20 46 | 2 33 | 23 29 | 23 29 | 19 37 | 2 25 | 2 53 |
| S 8 | 15 6 | 23 27 | 2 12 | 18 38 | 2 5 | 9 57 | 1 27 | 22 58 | 0 48 | 22 56 | 0 3 | 11 24 | 2 17 | 1 32 | 0 43 | 17 19 | 0 7 | 20 46 | 2 33 | 23 29 | 23 29 | 19 38 | 2 26 | 2 52 |
| S 9 | 14 47 | 24 5 | 1 0 | 18 8 | 2 5 | 9 28 | 1 27 | 22 52 | 0 49 | 22 55 | 0 3 | 11 25 | 2 17 | 1 31 | 0 43 | 17 19 | 0 7 | 20 46 | 2 32 | 23 29 | 23 29 | 19 40 | 2 27 | 2 52 |
| M10 | 14 28 | 23 11 | 0n15 | 17 35 | 2 5 | 8 59 | 1 26 | 22 46 | 0 49 | 22 54 | 0 3 | 11 27 | 2 17 | 1 30 | 0 43 | 17 18 | 0 7 | 20 46 | 2 32 | 23 29 | 23 29 | 19 41 | 2 28 | 2 52 |
| T 11 | 14 8 | 20 54 | 1 28 | 17 2 | 2 4 | 8 30 | 1 25 | 22 40 | 0 50 | 22 53 | 0 2 | 11 28 | 2 17 | 1 28 | 0 43 | 17 18 | 0 7 | 20 46 | 2 32 | 23 29 | 23 29 | 19 43 | 2 29 | 2 52 |
| W12 | 13 48 | 17 27 | 2 35 | 16 26 | 2 3 | 8 0 | 1 24 | 22 33 | 0 51 | 22 52 | 0 2 | 11 30 | 2 16 | 1 27 | 0 43 | 17 17 | 0 7 | 20 46 | 2 32 | 23 29 | 23 29 | 19 44 | 2 30 | 2 52 |
| T 13 | 13 28 | 13 8 | 3 32 | 15 49 | 2 1 | 7 31 | 1 23 | 22 26 | 0 51 | 22 51 | 0 2 | 11 31 | 2 16 | 1 26 | 0 42 | 17 16 | 0 7 | 20 46 | 2 32 | 23 29 | 23 29 | 19 46 | 2 31 | 2 52 |
| F 14 | 13 8 | 8 16 | 4 17 | 15 11 | 1 59 | 7 1 | 1 22 | 22 19 | 0 52 | 22 50 | 0 2 | 11 33 | 2 16 | 1 25 | 0 42 | 17 16 | 0 7 | 20 47 | 2 32 | 23 29 | 23 29 | 19 47 | 2 32 | 2 51 |
| S 15 | 12 48 | 3 7 | 4 47 | 14 31 | 1 56 | 6 31 | 1 21 | 22 12 | 0 52 | 22 49 | 0 2 | 11 34 | 2 16 | 1 24 | 0 42 | 17 15 | 0 7 | 20 47 | 2 32 | 23 29 | 23 29 | 19 48 | 2 33 | 2 51 |
| S 16 | 12 27 | 2n 2 | 5 3 | 13 50 | 1 53 | 6 0 | 1 19 | 22 4 | 0 53 | 22 48 | 0 2 | 11 36 | 2 15 | 1 22 | 0 42 | 17 14 | 0 7 | 20 47 | 2 32 | 23 29 | 23 29 | 19 50 | 2 35 | 2 51 |
| M17 | 12 6 | 7 0 | 5 3 | 13 8 | 1 49 | 5 30 | 1 18 | 21 57 | 0 54 | 22 47 | 0 2 | 11 38 | 2 15 | 1 21 | 0 42 | 17 14 | 0 7 | 20 47 | 2 32 | 23 29 | 23 29 | 19 51 | 2 36 | 2 51 |
| T 18 | 11 45 | 11 36 | 4 49 | 12 24 | 1 45 | 4 59 | 1 17 | 21 49 | 0 54 | 22 46 | 0 2 | 11 39 | 2 15 | 1 20 | 0 42 | 17 13 | 0 7 | 20 47 | 2 31 | 23 29 | 23 29 | 19 52 | 2 37 | 2 51 |
| W19 | 11 24 | 15 40 | 4 23 | 11 38 | 1 40 | 4 29 | 1 15 | 21 40 | 0 55 | 22 45 | 0 2 | 11 41 | 2 15 | 1 19 | 0 42 | 17 13 | 0 7 | 20 47 | 2 31 | 23 29 | 23 29 | 19 54 | 2 38 | 2 51 |
| T 20 | 11 2 | 19 5 | 3 46 | 10 51 | 1 35 | 3 58 | 1 14 | 21 32 | 0 55 | 22 44 | 0 2 | 11 43 | 2 14 | 1 17 | 0 42 | 17 12 | 0 7 | 20 47 | 2 31 | 23 29 | 23 29 | 19 55 | 2 39 | 2 51 |
| F 21 | 10 41 | 21 41 | 2 59 | 10 4 | 1 28 | 3 27 | 1 12 | 21 23 | 0 56 | 22 42 | 0 1 | 11 44 | 2 14 | 1 16 | 0 42 | 17 11 | 0 7 | 20 48 | 2 31 | 23 29 | 23 29 | 19 57 | 2 40 | 2 50 |
| S 22 | 10 19 | 23 20 | 2 4 | 9 14 | 1 22 | 2 56 | 1 11 | 21 14 | 0 57 | 22 41 | 0 1 | 11 46 | 2 14 | 1 15 | 0 42 | 17 11 | 0 7 | 20 48 | 2 31 | 23 29 | 23 29 | 19 58 | 2 42 | 2 50 |
| S 23 | 9 57 | 23 58 | 1 3 | 8 24 | 1 14 | 2 25 | 1 9 | 21 5 | 0 57 | 22 40 | 0 1 | 11 48 | 2 14 | 1 13 | 0 42 | 17 10 | 0 7 | 20 48 | 2 31 | 23 29 | 23 29 | 19 59 | 2 43 | 2 50 |
| M24 | 9 35 | 23 28 | 0s 1 | 7 33 | 1 6 | 1 54 | 1 7 | 20 56 | 0 58 | 22 39 | 0 1 | 11 50 | 2 13 | 1 12 | 0 42 | 17 10 | 0 7 | 20 48 | 2 31 | 23 29 | 23 28 | 20 1 | 2 44 | 2 50 |
| T 25 | 9 13 | 21 48 | 1 7 | 6 41 | 0 58 | 1 22 | 1 5 | 20 46 | 0 58 | 22 38 | 0 1 | 11 52 | 2 13 | 1 11 | 0 42 | 17 9 | 0 7 | 20 48 | 2 31 | 23 29 | 23 28 | 20 2 | 2 45 | 2 50 |
| W26 | 8 51 | 19 1 | 2 11 | 5 48 | 0 49 | 0 51 | 1 4 | 20 36 | 0 59 | 22 37 | 0 1 | 11 53 | 2 13 | 1 10 | 0 42 | 17 8 | 0 7 | 20 48 | 2 31 | 23 29 | 23 28 | 20 3 | 2 47 | 2 50 |
| T 27 | 8 28 | 15 11 | 3 10 | 4 55 | 0 39 | 0 20 | 1 2 | 20 26 | 0 59 | 22 36 | 0 1 | 11 55 | 2 13 | 1 8 | 0 42 | 17 8 | 0 7 | 20 48 | 2 30 | 23 29 | 23 28 | 20 5 | 2 48 | 2 50 |
| F 28 | 8 6 | 10 29 | 4 0 | 4 1 | 0 29 | 0n12 | 1 0 | 20 16 | 1 0 | 22 35 | 0 1 | 11 57 | 2 12 | 1 7 | 0 42 | 17 7 | 0 7 | 20 48 | 2 30 | 23 29 | 23 28 | 20 6 | 2 49 | 2 50 |
| S 29 | 7s43 | 5n 7 | 4s37 | 3s 7 | 0s18 | 0n43 | 0s58 | 20s 5 | 1s 1 | 22s34 | 0n 1 | 11n59 | 2s12 | 1s 6 | 0s42 | 17s 7 | 0s 7 | 20n49 | 2s30 | 23s29 | 23s28 | 20n 7 | 2n50 | 2n49 |

Julian Day Number = 2333237.5, Delta T = 25.96 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'19, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'08, Lahiri = 19°20'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## MARCH 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 38 19 | 11♓18'11 | 20♍ 2 | 24♓40 | 5♈15 | 5♒31 | 15♑46 | 7♉41 | 28♓56 | 12♒49 | 6°R41 | 29°R 1 | 28♐22 | 16♉43 | 0♈41 | S 1 |
| M 2 | 10 42 15 | 12°18'11 | 4♎32 | 26°27 | 6°29 | 6°17 | 15°56 | 7°47 | 28°59 | 12°51 | 6♋41 | 28♐49 | 28°19 | 16°50 | 0°44 | M 2 |
| T 3 | 10 46 12 | 13°18'09 | 19° 8 | 28°12 | 7°43 | 7° 3 | 16° 7 | 7°52 | 29° 2 | 12°53 | 6°40 | 28°39 | 28°15 | 16°57 | 0°48 | T 3 |
| W 4 | 10 50 8 | 14°18'06 | 3♏44 | 29°53 | 8°56 | 7°49 | 16°17 | 7°58 | 29° 6 | 12°55 | 6°40 | 28°32 | 28°12 | 17° 3 | 0°51 | W 4 |
| T 5 | 10 54 5 | 15°18'01 | 18°12 | 1♈31 | 10°10 | 8°35 | 16°27 | 8° 3 | 29° 9 | 12°57 | 6°40 | 28°27 | 28° 9 | 17°10 | 0°55 | T 5 |
| F 6 | 10 58 1 | 16°17'55 | 2♐29 | 3° 5 | 11°24 | 9°21 | 16°38 | 8° 9 | 29°13 | 12°59 | 6°39 | 28°24 | 28° 6 | 17°17 | 0°59 | F 6 |
| S 7 | 11 1 58 | 17°17'47 | 16°34 | 4°35 | 12°38 | 10° 7 | 16°48 | 8°15 | 29°16 | 13° 1 | 6°39 | 28°D24 | 28° 3 | 17°24 | 1° 2 | S 7 |
| S 8 | 11 5 54 | 18°17'37 | 0♑25 | 5°59 | 13°52 | 10°53 | 16°58 | 8°21 | 29°19 | 13° 3 | 6°39 | 28°R24 | 28° 0 | 17°30 | 1° 6 | S 8 |
| M 9 | 11 9 51 | 19°17'25 | 14° 3 | 7°18 | 15° 5 | 11°40 | 17° 7 | 8°26 | 29°23 | 13° 5 | 6°38 | 28°23 | 27°56 | 17°37 | 1° 9 | M 9 |
| T 10 | 11 13 48 | 20°17'12 | 27°30 | 8°30 | 16°19 | 12°26 | 17°17 | 8°32 | 29°26 | 13° 7 | 6°38 | 28°21 | 27°53 | 17°44 | 1°13 | T 10 |
| W11 | 11 17 44 | 21°16'57 | 10♒45 | 9°37 | 17°33 | 13°12 | 17°27 | 8°39 | 29°29 | 13° 9 | 6°38 | 28°15 | 27°50 | 17°50 | 1°17 | W11 |
| T 12 | 11 21 41 | 22°16'40 | 23°49 | 10°36 | 18°46 | 13°58 | 17°36 | 8°45 | 29°33 | 13°11 | 6°38 | 28° 7 | 27°47 | 17°57 | 1°20 | T 12 |
| F 13 | 11 25 37 | 23°16'22 | 6♓43 | 11°28 | 20° 0 | 14°44 | 17°45 | 8°51 | 29°36 | 13°12 | 6°38 | 27°56 | 27°44 | 18° 4 | 1°24 | F 13 |
| S 14 | 11 29 34 | 24°16'01 | 19°24 | 12°12 | 21°13 | 15°31 | 17°55 | 8°57 | 29°40 | 13°14 | 6°37 | 27°42 | 27°40 | 18°10 | 1°27 | S 14 |
| S 15 | 11 33 30 | 25°15'38 | 1♈55 | 12°49 | 22°27 | 16°17 | 18° 4 | 9° 3 | 29°43 | 13°16 | 6°37 | 27°28 | 27°37 | 18°17 | 1°31 | S 15 |
| M16 | 11 37 27 | 26°15'13 | 14°13 | 13°18 | 23°40 | 17° 3 | 18°13 | 9°10 | 29°47 | 13°18 | 6°37 | 27°15 | 27°34 | 18°24 | 1°35 | M16 |
| T 17 | 11 41 23 | 27°14'46 | 26°21 | 13°39 | 24°54 | 17°49 | 18°21 | 9°16 | 29°50 | 13°20 | 6°37 | 27° 2 | 27°31 | 18°30 | 1°38 | T 17 |
| W18 | 11 45 20 | 28°14'17 | 8♉19 | 13°51 | 26° 7 | 18°36 | 18°30 | 9°22 | 29°53 | 13°21 | 6°37 | 26°52 | 27°28 | 18°37 | 1°42 | W18 |
| T 19 | 11 49 17 | 29°13'46 | 20°10 | 13°R56 | 27°20 | 19°22 | 18°39 | 9°29 | 29°57 | 13°23 | 6°37 | 26°45 | 27°25 | 18°44 | 1°46 | T 19 |
| F 20 | 11 53 13 | 0♈13'12 | 1♊58 | 13°53 | 28°33 | 20° 8 | 18°47 | 9°36 | 0♈ 0 | 13°25 | 6°D37 | 26°41 | 27°21 | 18°50 | 1°49 | F 20 |
| S 21 | 11 57 10 | 1°12'37 | 13°47 | 13°43 | 29°46 | 20°55 | 18°56 | 9°42 | 0° 4 | 13°27 | 6°37 | 26°39 | 27°18 | 18°57 | 1°53 | S 21 |
| S 22 | 12 1 6 | 2°11'59 | 25°42 | 13°26 | 1♉ 0 | 21°41 | 19° 4 | 9°49 | 0° 7 | 13°28 | 6°37 | 26°39 | 27°15 | 19° 4 | 1°57 | S 22 |
| M23 | 12 5 3 | 3°11'18 | 7♋48 | 13° 2 | 2°13 | 22°27 | 19°12 | 9°56 | 0°11 | 13°30 | 6°37 | 26°39 | 27°12 | 19°10 | 2° 0 | M23 |
| T 24 | 12 8 59 | 4°10'36 | 20°11 | 12°32 | 3°26 | 23°13 | 19°20 | 10° 2 | 0°14 | 13°32 | 6°37 | 26°38 | 27° 9 | 19°17 | 2° 4 | T 24 |
| W25 | 12 12 56 | 5° 9'51 | 2♌56 | 11°57 | 4°38 | 24° 0 | 19°28 | 10° 9 | 0°17 | 13°33 | 6°37 | 26°35 | 27° 6 | 19°24 | 2° 8 | W25 |
| T 26 | 12 16 52 | 6° 9'03 | 16° 7 | 11°17 | 5°51 | 24°46 | 19°35 | 10°16 | 0°21 | 13°35 | 6°37 | 26°30 | 27° 2 | 19°30 | 2°11 | T 26 |
| F 27 | 12 20 49 | 7° 8'13 | 29°46 | 10°33 | 7° 4 | 25°32 | 19°43 | 10°23 | 0°24 | 13°36 | 6°38 | 26°23 | 26°59 | 19°37 | 2°15 | F 27 |
| S 28 | 12 24 46 | 8° 7'21 | 13♍53 | 9°47 | 8°17 | 26°19 | 19°50 | 10°30 | 0°28 | 13°38 | 6°38 | 26°13 | 26°56 | 19°44 | 2°19 | S 28 |
| S 29 | 12 28 42 | 9° 6'27 | 28°25 | 8°59 | 9°29 | 27° 5 | 19°57 | 10°37 | 0°31 | 13°39 | 6°38 | 26° 2 | 26°53 | 19°50 | 2°22 | S 29 |
| M30 | 12 32 39 | 10° 5'31 | 13♎16 | 8°10 | 10°42 | 27°51 | 20° 5 | 10°44 | 0°34 | 13°41 | 6°38 | 25°51 | 26°50 | 19°57 | 2°26 | M30 |
| T 31 | 12 36 35 | 11♈ 4'33 | 28♎15 | 7♈22 | 11♉55 | 28♒38 | 20♑11 | 10♉51 | 0♈38 | 13♒42 | 6♋39 | 25♐41 | 26♐46 | 20♉ 4 | 2♈30 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s20 | 0s37 | 4s58 | 2s13 | 0s 6 | 1n14 | 0s56 | 19s55 | 1s 1 | 22s32 | 0n 1 | 12n 1 | 2s12 | 1s 4 | 0s42 | 17s 6 | 0s 7 | 20n49 | 2s30 | 23s29 | 23s28 | 20n 9 | 2n52 | 2n49 |
| M 2 | 6 57 | 6 24 | 5 0 | 1 20 | 0n 6 | 1 46 | 0 53 | 19 44 | 1 2 | 22 31 | 0 0 | 12 3 | 2 12 | 1 3 | 0 42 | 17 6 | 0 7 | 20 49 | 2 30 | 23 29 | 23 28 | 20 10 | 2 53 | 2 49 |
| T 3 | 6 34 | 11 52 | 4 43 | 0 27 | 0 18 | 2 17 | 0 51 | 19 33 | 1 2 | 22 30 | 0 0 | 12 5 | 2 11 | 1 2 | 0 42 | 17 5 | 0 7 | 20 49 | 2 30 | 23 28 | 23 28 | 20 11 | 2 54 | 2 49 |
| W 4 | 6 11 | 16 39 | 4 7 | 0n26 | 0 31 | 2 48 | 0 49 | 19 21 | 1 3 | 22 29 | 0 0 | 12 7 | 2 11 | 1 0 | 0 42 | 17 4 | 0 7 | 20 49 | 2 30 | 23 28 | 23 28 | 20 12 | 2 55 | 2 49 |
| T 5 | 5 48 | 20 25 | 3 16 | 1 17 | 0 44 | 3 19 | 0 47 | 19 10 | 1 3 | 22 28 | 0 0 | 12 9 | 2 11 | 0 59 | 0 42 | 17 4 | 0 7 | 20 49 | 2 30 | 23 28 | 23 28 | 20 14 | 2 57 | 2 49 |
| F 6 | 5 25 | 22 52 | 2 13 | 2 6 | 0 57 | 3 50 | 0 44 | 18 58 | 1 4 | 22 27 | 0s 0 | 12 11 | 2 11 | 0 58 | 0 42 | 17 3 | 0 7 | 20 49 | 2 30 | 23 28 | 23 28 | 20 15 | 2 58 | 2 49 |
| S 7 | 5 2 | 23 50 | 1 2 | 2 54 | 1 10 | 4 21 | 0 42 | 18 46 | 1 4 | 22 26 | 0 0 | 12 13 | 2 11 | 0 56 | 0 42 | 17 3 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 16 | 2 59 | 2 49 |
| S 8 | 4 38 | 23 18 | 0n11 | 3 40 | 1 24 | 4 52 | 0 40 | 18 34 | 1 5 | 22 24 | 0 0 | 12 15 | 2 10 | 0 55 | 0 42 | 17 2 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 18 | 3 1 | 2 49 |
| M 9 | 4 15 | 21 23 | 1 22 | 4 23 | 1 37 | 5 23 | 0 37 | 18 22 | 1 5 | 22 23 | 0 0 | 12 17 | 2 10 | 0 53 | 0 42 | 17 2 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 19 | 3 2 | 2 48 |
| T 10 | 3 51 | 18 17 | 2 27 | 5 4 | 1 50 | 5 54 | 0 35 | 18 9 | 1 6 | 22 22 | 0 0 | 12 19 | 2 10 | 0 52 | 0 42 | 17 1 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 20 | 3 3 | 2 48 |
| W11 | 3 28 | 14 18 | 3 24 | 5 42 | 2 3 | 6 24 | 0 32 | 17 57 | 1 6 | 22 21 | 0 1 | 12 21 | 2 10 | 0 51 | 0 42 | 17 1 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 21 | 3 5 | 2 48 |
| T 12 | 3 4 | 9 41 | 4 9 | 6 16 | 2 15 | 6 55 | 0 29 | 17 44 | 1 7 | 22 20 | 0 1 | 12 24 | 2 10 | 0 49 | 0 42 | 17 0 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 23 | 3 6 | 2 48 |
| F 13 | 2 41 | 4 44 | 4 40 | 6 48 | 2 27 | 7 25 | 0 27 | 17 31 | 1 7 | 22 19 | 0 1 | 12 26 | 2 9 | 0 48 | 0 42 | 17 0 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 24 | 3 8 | 2 48 |
| S 14 | 2 17 | 0n21 | 4 57 | 7 15 | 2 38 | 7 55 | 0 24 | 17 18 | 1 8 | 22 18 | 0 1 | 12 28 | 2 9 | 0 47 | 0 42 | 16 59 | 0 7 | 20 50 | 2 29 | 23 28 | 23 28 | 20 25 | 3 9 | 2 48 |
| S 15 | 1 53 | 5 20 | 4 59 | 7 39 | 2 48 | 8 25 | 0 21 | 17 4 | 1 8 | 22 17 | 0 1 | 12 30 | 2 9 | 0 45 | 0 42 | 16 59 | 0 7 | 20 51 | 2 29 | 23 27 | 23 28 | 20 26 | 3 10 | 2 48 |
| M16 | 1 30 | 10 1 | 4 47 | 7 59 | 2 57 | 8 55 | 0 19 | 16 51 | 1 9 | 22 16 | 0 1 | 12 32 | 2 9 | 0 44 | 0 42 | 16 58 | 0 7 | 20 51 | 2 28 | 23 27 | 23 28 | 20 28 | 3 12 | 2 48 |
| T 17 | 1 6 | 14 15 | 4 22 | 8 14 | 3 6 | 9 24 | 0 16 | 16 37 | 1 9 | 22 14 | 0 1 | 12 34 | 2 9 | 0 43 | 0 42 | 16 58 | 0 7 | 20 51 | 2 28 | 23 27 | 23 27 | 20 29 | 3 13 | 2 48 |
| W18 | 0 42 | 17 52 | 3 46 | 8 26 | 3 13 | 9 54 | 0 13 | 16 23 | 1 10 | 22 13 | 0 1 | 12 37 | 2 8 | 0 41 | 0 42 | 16 57 | 0 7 | 20 51 | 2 28 | 23 27 | 23 27 | 20 30 | 3 14 | 2 48 |
| T 19 | 0 18 | 20 43 | 3 0 | 8 33 | 3 18 | 10 23 | 0 10 | 16 9 | 1 10 | 22 12 | 0 1 | 12 39 | 2 8 | 0 40 | 0 42 | 16 57 | 0 7 | 20 51 | 2 28 | 23 26 | 23 27 | 20 31 | 3 16 | 2 48 |
| F 20 | 0n 5 | 22 40 | 2 7 | 8 36 | 3 23 | 10 52 | 0 7 | 15 55 | 1 11 | 22 11 | 0 2 | 12 41 | 2 8 | 0 38 | 0 42 | 16 56 | 0 7 | 20 51 | 2 28 | 23 26 | 23 27 | 20 32 | 3 17 | 2 48 |
| S 21 | 0 29 | 23 37 | 1 8 | 8 34 | 3 25 | 11 20 | 0 5 | 15 41 | 1 11 | 22 10 | 0 2 | 12 43 | 2 8 | 0 37 | 0 42 | 16 56 | 0 7 | 20 51 | 2 28 | 23 26 | 23 27 | 20 34 | 3 19 | 2 47 |
| S 22 | 0 53 | 23 30 | 0 5 | 8 29 | 3 27 | 11 49 | 0 2 | 15 26 | 1 12 | 22 9 | 0 2 | 12 46 | 2 8 | 0 36 | 0 42 | 16 55 | 0 7 | 20 51 | 2 28 | 23 26 | 23 27 | 20 35 | 3 20 | 2 47 |
| M23 | 1 16 | 22 16 | 0s59 | 8 19 | 3 26 | 12 17 | 0n 1 | 15 11 | 1 12 | 22 8 | 0 2 | 12 48 | 2 8 | 0 34 | 0 42 | 16 55 | 0 7 | 20 52 | 2 28 | 23 26 | 23 27 | 20 36 | 3 21 | 2 47 |
| T 24 | 1 40 | 19 58 | 2 1 | 8 5 | 3 24 | 12 45 | 0 4 | 14 57 | 1 13 | 22 7 | 0 2 | 12 50 | 2 7 | 0 33 | 0 42 | 16 54 | 0 7 | 20 52 | 2 27 | 23 26 | 23 27 | 20 37 | 3 23 | 2 47 |
| W25 | 2 3 | 16 37 | 3 0 | 7 48 | 3 20 | 13 12 | 0 7 | 14 42 | 1 13 | 22 6 | 0 2 | 12 52 | 2 7 | 0 32 | 0 42 | 16 54 | 0 7 | 20 52 | 2 27 | 23 26 | 23 27 | 20 38 | 3 24 | 2 47 |
| T 26 | 2 27 | 12 22 | 3 50 | 7 27 | 3 14 | 13 39 | 0 10 | 14 27 | 1 13 | 22 5 | 0 2 | 12 55 | 2 7 | 0 30 | 0 42 | 16 53 | 0 7 | 20 52 | 2 27 | 23 26 | 23 27 | 20 40 | 3 26 | 2 47 |
| F 27 | 2 50 | 7 22 | 4 30 | 7 3 | 3 7 | 14 6 | 0 13 | 14 11 | 1 14 | 22 4 | 0 2 | 12 57 | 2 7 | 0 29 | 0 42 | 16 53 | 0 7 | 20 52 | 2 27 | 23 26 | 23 27 | 20 41 | 3 27 | 2 47 |
| S 28 | 3 14 | 1 49 | 4 54 | 6 36 | 2 58 | 14 33 | 0 16 | 13 56 | 1 14 | 22 3 | 0 2 | 12 59 | 2 7 | 0 28 | 0 42 | 16 53 | 0 7 | 20 52 | 2 27 | 23 26 | 23 27 | 20 42 | 3 28 | 2 47 |
| S 29 | 3 37 | 3s58 | 5 1 | 6 8 | 2 47 | 14 59 | 0 19 | 13 41 | 1 15 | 22 2 | 0 3 | 13 2 | 2 7 | 0 26 | 0 42 | 16 52 | 0 7 | 20 52 | 2 27 | 23 25 | 23 27 | 20 43 | 3 30 | 2 47 |
| M30 | 4 0 | 9 39 | 4 48 | 5 37 | 2 35 | 15 25 | 0 22 | 13 25 | 1 15 | 22 1 | 0 3 | 13 4 | 2 6 | 0 25 | 0 42 | 16 52 | 0 7 | 20 52 | 2 27 | 23 25 | 23 27 | 20 44 | 3 31 | 2 47 |
| T 31 | 4n23 | 14s50 | 4s15 | 5n 6 | 2n22 | 15n50 | 0n25 | 13s 9 | 1s16 | 22s 0 | 0s 3 | 13n 6 | 2s 6 | 0s23 | 0s42 | 16s51 | 0s 7 | 20n52 | 2s27 | 23s25 | 23s27 | 20n45 | 3n33 | 2n47 |

Julian Day Number = 2333266.5, Delta T = 25.91 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'12, Lahiri = 19°20'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## APRIL 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 40 32 | 12♈ 3'32 | 13♏15 | 6°R35 | 13♉ 7 | 29♒24 | 20♑18 | 10♉58 | 0♈41 | 13♒44 | 6♋39 | 25°R33 | 26♐43 | 20♉10 | 2♈33 | W 1 |
| T 2 | 12 44 28 | 13° 2'30 | 28° 6 | 5♈49 | 14°20 | 0♓10 | 20°25 | 11° 5 | 0°45 | 13°45 | 6°39 | 25♐28 | 26°40 | 20°17 | 2°37 | T 2 |
| F 3 | 12 48 25 | 14° 1'26 | 12♐41 | 5° 7 | 15°32 | 0°57 | 20°31 | 11°12 | 0°48 | 13°46 | 6°39 | 25°26 | 26°37 | 20°24 | 2°40 | F 3 |
| S 4 | 12 52 21 | 15° 0'21 | 26°58 | 4°27 | 16°44 | 1°43 | 20°38 | 11°20 | 0°51 | 13°48 | 6°40 | 25°D25 | 26°34 | 20°30 | 2°44 | S 4 |
| S 5 | 12 56 18 | 15°59'14 | 10♑54 | 3°52 | 17°56 | 2°29 | 20°44 | 11°27 | 0°55 | 13°49 | 6°40 | 25°R26 | 26°31 | 20°37 | 2°48 | S 5 |
| M 6 | 13 0 14 | 16°58'05 | 24°30 | 3°21 | 19° 9 | 3°15 | 20°50 | 11°34 | 0°58 | 13°50 | 6°41 | 25°25 | 26°27 | 20°44 | 2°51 | M 6 |
| T 7 | 13 4 11 | 17°56'54 | 7♒47 | 2°55 | 20°21 | 4° 2 | 20°56 | 11°41 | 1° 1 | 13°51 | 6°41 | 25°24 | 26°24 | 20°50 | 2°55 | T 7 |
| W 8 | 13 8 8 | 18°55'41 | 20°49 | 2°34 | 21°33 | 4°48 | 21° 2 | 11°49 | 1° 5 | 13°53 | 6°41 | 25°20 | 26°21 | 20°57 | 2°58 | W 8 |
| T 9 | 13 12 4 | 19°54'27 | 3♓36 | 2°17 | 22°45 | 5°34 | 21° 7 | 11°56 | 1° 8 | 13°54 | 6°42 | 25°13 | 26°18 | 21° 4 | 3° 2 | T 9 |
| F 10 | 13 16 1 | 20°53'11 | 16°11 | 2° 7 | 23°57 | 6°21 | 21°13 | 12° 3 | 1°11 | 13°55 | 6°42 | 25° 4 | 26°15 | 21°10 | 3° 5 | F 10 |
| S 11 | 13 19 57 | 21°51'53 | 28°36 | 2° 1 | 25° 8 | 7° 7 | 21°18 | 12°11 | 1°14 | 13°56 | 6°43 | 24°53 | 26°12 | 21°17 | 3° 9 | S 11 |
| S 12 | 13 23 54 | 22°50'33 | 10♈51 | 2°D 1 | 26°20 | 7°53 | 21°23 | 12°18 | 1°18 | 13°57 | 6°43 | 24°41 | 26° 8 | 21°24 | 3°12 | S 12 |
| M13 | 13 27 50 | 23°49'11 | 22°58 | 2° 5 | 27°32 | 8°39 | 21°28 | 12°26 | 1°21 | 13°58 | 6°44 | 24°30 | 26° 5 | 21°30 | 3°16 | M13 |
| T 14 | 13 31 47 | 24°47'48 | 4♉57 | 2°15 | 28°43 | 9°26 | 21°33 | 12°33 | 1°24 | 13°59 | 6°45 | 24°19 | 26° 2 | 21°37 | 3°19 | T 14 |
| W15 | 13 35 43 | 25°46'22 | 16°49 | 2°30 | 29°55 | 10°12 | 21°37 | 12°41 | 1°27 | 14° 0 | 6°45 | 24°11 | 25°59 | 21°44 | 3°23 | W15 |
| T 16 | 13 39 40 | 26°44'55 | 28°38 | 2°49 | 1♊ 6 | 10°58 | 21°41 | 12°48 | 1°31 | 14° 1 | 6°46 | 24° 5 | 25°56 | 21°50 | 3°26 | T 16 |
| F 17 | 13 43 37 | 27°43'25 | 10♊25 | 3°13 | 2°18 | 11°44 | 21°46 | 12°56 | 1°34 | 14° 2 | 6°46 | 24° 2 | 25°52 | 21°57 | 3°30 | F 17 |
| S 18 | 13 47 33 | 28°41'53 | 22°14 | 3°41 | 3°29 | 12°30 | 21°50 | 13° 4 | 1°37 | 14° 3 | 6°47 | 24°D 1 | 25°49 | 22° 4 | 3°33 | S 18 |
| S 19 | 13 51 30 | 29°40'20 | 4♋ 9 | 4°14 | 4°40 | 13°17 | 21°54 | 13°11 | 1°40 | 14° 4 | 6°48 | 24° 1 | 25°46 | 22°10 | 3°37 | S 19 |
| M20 | 13 55 26 | 0♉38'44 | 16°14 | 4°50 | 5°52 | 14° 3 | 21°57 | 13°19 | 1°43 | 14° 5 | 6°48 | 24° 2 | 25°43 | 22°17 | 3°40 | M20 |
| T 21 | 13 59 23 | 1°37'06 | 28°35 | 5°30 | 7° 3 | 14°49 | 22° 1 | 13°26 | 1°46 | 14° 6 | 6°49 | 24°R 3 | 25°40 | 22°24 | 3°43 | T 21 |
| W22 | 14 3 19 | 2°35'26 | 11♌17 | 6°14 | 8°14 | 15°35 | 22° 4 | 13°34 | 1°49 | 14° 7 | 6°50 | 24° 3 | 25°37 | 22°30 | 3°47 | W22 |
| T 23 | 14 7 16 | 3°33'44 | 24°24 | 7° 2 | 9°25 | 16°21 | 22° 7 | 13°42 | 1°52 | 14° 7 | 6°51 | 24° 1 | 25°33 | 22°37 | 3°50 | T 23 |
| F 24 | 14 11 12 | 4°31'59 | 7♍59 | 7°53 | 10°35 | 17° 7 | 22°10 | 13°49 | 1°55 | 14° 8 | 6°51 | 23°57 | 25°30 | 22°44 | 3°53 | F 24 |
| S 25 | 14 15 9 | 5°30'13 | 22° 3 | 8°47 | 11°46 | 17°53 | 22°13 | 13°57 | 1°58 | 14° 9 | 6°52 | 23°51 | 25°27 | 22°50 | 3°56 | S 25 |
| S 26 | 14 19 6 | 6°28'24 | 6♎36 | 9°44 | 12°57 | 18°39 | 22°16 | 14° 5 | 2° 1 | 14°10 | 6°53 | 23°44 | 25°24 | 22°57 | 4° 0 | S 26 |
| M27 | 14 23 2 | 7°26'34 | 21°30 | 10°44 | 14° 7 | 19°25 | 22°18 | 14°13 | 2° 4 | 14°10 | 6°54 | 23°37 | 25°21 | 23° 4 | 4° 3 | M27 |
| T 28 | 14 26 59 | 8°24'42 | 6♏40 | 11°47 | 15°18 | 20°11 | 22°20 | 14°20 | 2° 7 | 14°11 | 6°55 | 23°31 | 25°17 | 23°10 | 4° 6 | T 28 |
| W29 | 14 30 55 | 9°22'48 | 21°53 | 12°53 | 16°28 | 20°57 | 22°23 | 14°28 | 2°10 | 14°11 | 6°56 | 23°26 | 25°14 | 23°17 | 4° 9 | W29 |
| T 30 | 14 34 52 | 10♉20'53 | 7♐ 1 | 14♈ 2 | 17♊38 | 21♓43 | 22♑24 | 14♉36 | 2♈13 | 14♒12 | 6♋57 | 23♐23 | 25♐11 | 23♉24 | 4♈12 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 4n46 | 19s 5 | 3s24 | 4n34 | 2n 8 | 16n15 | 0n28 | 12s53 | 1s16 | 22s 0 | 0s 3 | 13n 9 | 2s 6 | 0s22 | 0s42 | 16s51 | 0s 7 | 20n52 | 2s27 | 23s24 | 23s26 | 20n46 | 3n34 | 2n47 |
| T 2 | 5 10 | 22 2 | 2 20 | 4 3 | 1 53 | 16 40 | 0 31 | 12 37 | 1 16 | 21 59 | 0 3 | 13 11 | 2 6 | 0 21 | 0 42 | 16 51 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 48 | 3 36 | 2 47 |
| F 3 | 5 32 | 23 28 | 1 7 | 3 31 | 1 38 | 17 4 | 0 34 | 12 21 | 1 17 | 21 58 | 0 3 | 13 13 | 2 6 | 0 19 | 0 42 | 16 50 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 49 | 3 37 | 2 47 |
| S 4 | 5 55 | 23 19 | 0n 8 | 3 1 | 1 22 | 17 28 | 0 38 | 12 5 | 1 17 | 21 57 | 0 3 | 13 16 | 2 6 | 0 18 | 0 42 | 16 50 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 50 | 3 38 | 2 47 |
| S 5 | 6 18 | 21 41 | 1 21 | 2 32 | 1 5 | 17 51 | 0 41 | 11 49 | 1 17 | 21 56 | 0 3 | 13 18 | 2 6 | 0 17 | 0 42 | 16 49 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 51 | 3 40 | 2 47 |
| M 6 | 6 41 | 18 50 | 2 28 | 2 5 | 0 49 | 18 14 | 0 44 | 11 32 | 1 18 | 21 55 | 0 4 | 13 20 | 2 6 | 0 15 | 0 42 | 16 49 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 52 | 3 41 | 2 47 |
| T 7 | 7 3 | 15 3 | 3 25 | 1 39 | 0 32 | 18 37 | 0 47 | 11 16 | 1 18 | 21 55 | 0 4 | 13 23 | 2 5 | 0 14 | 0 42 | 16 49 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 53 | 3 43 | 2 47 |
| W 8 | 7 26 | 10 37 | 4 10 | 1 16 | 0 16 | 18 59 | 0 50 | 10 59 | 1 19 | 21 54 | 0 4 | 13 25 | 2 5 | 0 13 | 0 42 | 16 48 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 54 | 3 44 | 2 47 |
| T 9 | 7 48 | 5 49 | 4 42 | 0 55 | 0 1 | 19 20 | 0 53 | 10 42 | 1 19 | 21 53 | 0 4 | 13 27 | 2 5 | 0 12 | 0 42 | 16 48 | 0 7 | 20 53 | 2 26 | 23 24 | 23 26 | 20 55 | 3 45 | 2 47 |
| F 10 | 8 10 | 0 51 | 5 0 | 0 37 | 0s15 | 19 41 | 0 56 | 10 26 | 1 19 | 21 52 | 0 4 | 13 30 | 2 5 | 0 10 | 0 42 | 16 48 | 0 7 | 20 53 | 2 26 | 23 23 | 23 26 | 20 56 | 3 47 | 2 47 |
| S 11 | 8 32 | 4n 4 | 5 2 | 0 21 | 0 30 | 20 2 | 0 59 | 10 9 | 1 20 | 21 52 | 0 4 | 13 32 | 2 5 | 0 9 | 0 42 | 16 47 | 0 7 | 20 53 | 2 25 | 23 23 | 23 26 | 20 57 | 3 48 | 2 47 |
| S 12 | 8 54 | 8 46 | 4 51 | 0 8 | 0 44 | 20 22 | 1 2 | 9 52 | 1 20 | 21 51 | 0 4 | 13 34 | 2 5 | 0 8 | 0 42 | 16 47 | 0 7 | 20 54 | 2 25 | 23 22 | 23 25 | 20 59 | 3 49 | 2 47 |
| M13 | 9 16 | 13 4 | 4 27 | 0s 3 | 0 58 | 20 42 | 1 5 | 9 35 | 1 20 | 21 50 | 0 5 | 13 37 | 2 5 | 0 6 | 0 42 | 16 47 | 0 7 | 20 54 | 2 25 | 23 22 | 23 25 | 21 0 | 3 51 | 2 47 |
| T 14 | 9 37 | 16 49 | 3 51 | 0 11 | 1 11 | 21 1 | 1 8 | 9 17 | 1 20 | 21 50 | 0 5 | 13 39 | 2 5 | 0 5 | 0 42 | 16 47 | 0 7 | 20 54 | 2 25 | 23 22 | 23 25 | 21 1 | 3 52 | 2 47 |
| W15 | 9 59 | 19 51 | 3 5 | 0 17 | 1 23 | 21 19 | 1 10 | 9 0 | 1 21 | 21 49 | 0 5 | 13 42 | 2 5 | 0 4 | 0 42 | 16 46 | 0 7 | 20 54 | 2 25 | 23 21 | 23 25 | 21 2 | 3 54 | 2 47 |
| T 16 | 10 20 | 22 2 | 2 12 | 0 19 | 1 35 | 21 37 | 1 13 | 8 43 | 1 21 | 21 49 | 0 5 | 13 44 | 2 4 | 0 3 | 0 42 | 16 46 | 0 7 | 20 54 | 2 25 | 23 21 | 23 25 | 21 3 | 3 55 | 2 47 |
| F 17 | 10 41 | 23 15 | 1 12 | 0 20 | 1 45 | 21 54 | 1 16 | 8 26 | 1 21 | 21 48 | 0 5 | 13 46 | 2 4 | 0 1 | 0 42 | 16 46 | 0 7 | 20 54 | 2 25 | 23 21 | 23 25 | 21 4 | 3 56 | 2 46 |
| S 18 | 11 2 | 23 25 | 0 10 | 0 18 | 1 56 | 22 11 | 1 19 | 8 8 | 1 22 | 21 48 | 0 5 | 13 49 | 2 4 | 0 0 | 0 42 | 16 46 | 0 7 | 20 54 | 2 25 | 23 21 | 23 25 | 21 5 | 3 58 | 2 46 |
| S 19 | 11 23 | 22 31 | 0s54 | 0 14 | 2 5 | 22 27 | 1 22 | 7 51 | 1 22 | 21 47 | 0 5 | 13 51 | 2 4 | 0n 1 | 0 42 | 16 45 | 0 7 | 20 54 | 2 24 | 23 21 | 23 25 | 21 6 | 3 59 | 2 46 |
| M20 | 11 43 | 20 34 | 1 57 | 0 7 | 2 13 | 22 43 | 1 25 | 7 33 | 1 22 | 21 47 | 0 5 | 13 53 | 2 4 | 0 2 | 0 42 | 16 45 | 0 7 | 20 54 | 2 24 | 23 21 | 23 25 | 21 7 | 4 0 | 2 46 |
| T 21 | 12 3 | 17 37 | 2 55 | 0n 2 | 2 21 | 22 58 | 1 27 | 7 15 | 1 22 | 21 46 | 0 6 | 13 56 | 2 4 | 0 4 | 0 42 | 16 45 | 0 8 | 20 54 | 2 24 | 23 21 | 23 25 | 21 8 | 4 2 | 2 46 |
| W22 | 12 24 | 13 47 | 3 47 | 0 13 | 2 28 | 23 12 | 1 30 | 6 58 | 1 23 | 21 46 | 0 6 | 13 58 | 2 4 | 0 5 | 0 42 | 16 45 | 0 8 | 20 54 | 2 24 | 23 21 | 23 24 | 21 9 | 4 3 | 2 46 |
| T 23 | 12 44 | 9 12 | 4 28 | 0 26 | 2 35 | 23 26 | 1 33 | 6 40 | 1 23 | 21 45 | 0 6 | 14 0 | 2 4 | 0 6 | 0 42 | 16 44 | 0 8 | 20 54 | 2 24 | 23 21 | 23 24 | 21 10 | 4 4 | 2 46 |
| F 24 | 13 3 | 4 0 | 4 56 | 0 40 | 2 40 | 23 39 | 1 35 | 6 22 | 1 23 | 21 45 | 0 6 | 14 3 | 2 4 | 0 7 | 0 42 | 16 44 | 0 8 | 20 54 | 2 24 | 23 21 | 23 24 | 21 11 | 4 6 | 2 47 |
| S 25 | 13 23 | 1s34 | 5 8 | 0 57 | 2 45 | 23 51 | 1 38 | 6 4 | 1 23 | 21 45 | 0 6 | 14 5 | 2 4 | 0 8 | 0 42 | 16 44 | 0 8 | 20 55 | 2 24 | 23 20 | 23 24 | 21 12 | 4 7 | 2 47 |
| S 26 | 13 42 | 7 13 | 5 0 | 1 16 | 2 50 | 24 3 | 1 40 | 5 47 | 1 23 | 21 45 | 0 6 | 14 7 | 2 4 | 0 10 | 0 42 | 16 44 | 0 8 | 20 55 | 2 24 | 23 20 | 23 24 | 21 13 | 4 8 | 2 47 |
| M27 | 14 1 | 12 37 | 4 33 | 1 36 | 2 53 | 24 14 | 1 43 | 5 29 | 1 24 | 21 44 | 0 6 | 14 10 | 2 4 | 0 11 | 0 42 | 16 44 | 0 8 | 20 55 | 2 24 | 23 20 | 23 24 | 21 14 | 4 9 | 2 47 |
| T 28 | 14 20 | 17 19 | 3 46 | 1 58 | 2 56 | 24 25 | 1 45 | 5 11 | 1 24 | 21 44 | 0 7 | 14 12 | 2 4 | 0 12 | 0 42 | 16 44 | 0 8 | 20 55 | 2 24 | 23 19 | 23 24 | 21 15 | 4 11 | 2 47 |
| W29 | 14 39 | 20 53 | 2 42 | 2 22 | 2 58 | 24 34 | 1 48 | 4 53 | 1 24 | 21 44 | 0 7 | 14 14 | 2 3 | 0 13 | 0 42 | 16 43 | 0 8 | 20 55 | 2 23 | 23 19 | 23 24 | 21 16 | 4 12 | 2 47 |
| T 30 | 14n57 | 22s57 | 1s27 | 2n47 | 3s 0 | 24n44 | 1n50 | 4s35 | 1s24 | 21s44 | 0s 7 | 14n17 | 2s 3 | 0n14 | 0s42 | 16s43 | 0s 8 | 20n55 | 2s23 | 23s19 | 23s24 | 21n17 | 4n13 | 2n47 |

Julian Day Number = 2333297.5, Delta T = 25.86 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'16, Lahiri = 19°20'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## MAY 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 38 48 | 11♉18'56 | 21♐55 | 15♈13 | 18♊48 | 22♓29 | 22♑26 | 14♉44 | 2♈16 | 14♒12 | 6♋58 | 23°D22 | 25♐ 8 | 23♉30 | 4♈15 | F 1 |
| S 2 | 14 42 45 | 12°16'58 | 6♑28 | 16°26 | 19°59 | 23°15 | 22°28 | 14°51 | 2°19 | 14°13 | 6°59 | 23♐22 | 25° 5 | 23°37 | 4°18 | S 2 |
| S 3 | 14 46 41 | 13°14'58 | 20°36 | 17°42 | 21° 8 | 24° 1 | 22°29 | 14°59 | 2°21 | 14°13 | 6°59 | 23°24 | 25° 2 | 23°44 | 4°21 | S 3 |
| M 4 | 14 50 38 | 14°12'57 | 4♒19 | 19° 1 | 22°18 | 24°47 | 22°30 | 15° 7 | 2°24 | 14°14 | 7° 0 | 23°25 | 24°58 | 23°50 | 4°24 | M 4 |
| T 5 | 14 54 35 | 15°10'55 | 17°39 | 20°22 | 23°28 | 25°32 | 22°31 | 15°15 | 2°27 | 14°14 | 7° 1 | 23°R25 | 24°55 | 23°57 | 4°27 | T 5 |
| W 6 | 14 58 31 | 16° 8'51 | 0♓37 | 21°45 | 24°38 | 26°18 | 22°32 | 15°22 | 2°30 | 14°14 | 7° 2 | 23°24 | 24°52 | 24° 4 | 4°30 | W 6 |
| T 7 | 15 2 28 | 17° 6'46 | 13°18 | 23°10 | 25°47 | 27° 4 | 22°32 | 15°30 | 2°32 | 14°15 | 7° 3 | 23°21 | 24°49 | 24°10 | 4°33 | T 7 |
| F 8 | 15 6 24 | 18° 4'40 | 25°43 | 24°38 | 26°57 | 27°50 | 22°33 | 15°38 | 2°35 | 14°15 | 7° 5 | 23°17 | 24°46 | 24°17 | 4°36 | F 8 |
| S 9 | 15 10 21 | 19° 2'32 | 7♈56 | 26° 8 | 28° 6 | 28°35 | 22°33 | 15°46 | 2°38 | 14°15 | 7° 6 | 23°12 | 24°43 | 24°24 | 4°39 | S 9 |
| S 10 | 15 14 17 | 20° 0'23 | 20° 0 | 27°40 | 29°15 | 29°21 | 22°R33 | 15°53 | 2°40 | 14°16 | 7° 7 | 23° 6 | 24°39 | 24°30 | 4°42 | S 10 |
| M11 | 15 18 14 | 20°58'13 | 1♉57 | 29°14 | 0♋24 | 0♈ 6 | 22°33 | 16° 1 | 2°43 | 14°16 | 7° 8 | 23° 0 | 24°36 | 24°37 | 4°45 | M11 |
| T 12 | 15 22 10 | 21°56'01 | 13°48 | 0♉50 | 1°33 | 0°52 | 22°32 | 16° 9 | 2°45 | 14°16 | 7° 9 | 22°55 | 24°33 | 24°44 | 4°47 | T 12 |
| W13 | 15 26 7 | 22°53'48 | 25°37 | 2°29 | 2°42 | 1°38 | 22°32 | 16°17 | 2°48 | 14°16 | 7°10 | 22°51 | 24°30 | 24°50 | 4°50 | W13 |
| T 14 | 15 30 4 | 23°51'34 | 7♊25 | 4° 9 | 3°51 | 2°23 | 22°31 | 16°24 | 2°50 | 14°16 | 7°11 | 22°49 | 24°27 | 24°57 | 4°53 | T 14 |
| F 15 | 15 34 0 | 24°49'18 | 19°14 | 5°52 | 5° 0 | 3° 9 | 22°30 | 16°32 | 2°53 | 14°16 | 7°12 | 22°D47 | 24°23 | 25° 4 | 4°55 | F 15 |
| S 16 | 15 37 57 | 25°47'01 | 1♋ 7 | 7°37 | 6° 8 | 3°54 | 22°29 | 16°40 | 2°55 | 14°R16 | 7°14 | 22°48 | 24°20 | 25°10 | 4°58 | S 16 |
| S 17 | 15 41 53 | 26°44'43 | 13° 6 | 9°24 | 7°17 | 4°39 | 22°28 | 16°47 | 2°57 | 14°16 | 7°15 | 22°49 | 24°17 | 25°17 | 5° 0 | S 17 |
| M18 | 15 45 50 | 27°42'23 | 25°16 | 11°13 | 8°25 | 5°25 | 22°26 | 16°55 | 3° 0 | 14°16 | 7°16 | 22°50 | 24°14 | 25°24 | 5° 3 | M18 |
| T 19 | 15 49 46 | 28°40'01 | 7♌40 | 13° 5 | 9°33 | 6°10 | 22°24 | 17° 3 | 3° 2 | 14°16 | 7°17 | 22°52 | 24°11 | 25°30 | 5° 5 | T 19 |
| W20 | 15 53 43 | 29°37'38 | 20°22 | 14°58 | 10°41 | 6°55 | 22°23 | 17°10 | 3° 4 | 14°16 | 7°18 | 22°53 | 24° 8 | 25°37 | 5° 8 | W20 |
| T 21 | 15 57 39 | 0♊35'13 | 3♍25 | 16°54 | 11°49 | 7°40 | 22°21 | 17°18 | 3° 6 | 14°16 | 7°20 | 22°R53 | 24° 4 | 25°44 | 5°10 | T 21 |
| F 22 | 16 1 36 | 1°32'47 | 16°54 | 18°51 | 12°57 | 8°26 | 22°18 | 17°26 | 3° 9 | 14°16 | 7°21 | 22°53 | 24° 1 | 25°50 | 5°13 | F 22 |
| S 23 | 16 5 33 | 2°30'20 | 0♎49 | 20°51 | 14° 4 | 9°11 | 22°16 | 17°33 | 3°11 | 14°15 | 7°22 | 22°51 | 23°58 | 25°57 | 5°15 | S 23 |
| S 24 | 16 9 29 | 3°27'51 | 15°11 | 22°53 | 15°12 | 9°56 | 22°13 | 17°41 | 3°13 | 14°15 | 7°23 | 22°49 | 23°55 | 26° 4 | 5°17 | S 24 |
| M25 | 16 13 26 | 4°25'20 | 29°56 | 24°56 | 16°19 | 10°41 | 22°10 | 17°48 | 3°15 | 14°15 | 7°25 | 22°47 | 23°52 | 26°10 | 5°20 | M25 |
| T 26 | 16 17 22 | 5°22'49 | 14♏59 | 27° 1 | 17°26 | 11°26 | 22° 7 | 17°56 | 3°17 | 14°14 | 7°26 | 22°44 | 23°49 | 26°17 | 5°22 | T 26 |
| W27 | 16 21 19 | 6°20'16 | 0♐10 | 29° 8 | 18°33 | 12°11 | 22° 4 | 18° 3 | 3°19 | 14°14 | 7°27 | 22°43 | 23°45 | 26°24 | 5°24 | W27 |
| T 28 | 16 25 15 | 7°17'43 | 15°21 | 1♊16 | 19°39 | 12°56 | 22° 1 | 18°11 | 3°21 | 14°14 | 7°29 | 22°D42 | 23°42 | 26°30 | 5°26 | T 28 |
| F 29 | 16 29 12 | 8°15'08 | 0♑23 | 3°25 | 20°46 | 13°40 | 21°57 | 18°18 | 3°23 | 14°13 | 7°30 | 22°42 | 23°39 | 26°37 | 5°28 | F 29 |
| S 30 | 16 33 8 | 9°12'33 | 15° 6 | 5°36 | 21°52 | 14°25 | 21°54 | 18°26 | 3°24 | 14°13 | 7°31 | 22°43 | 23°36 | 26°44 | 5°30 | S 30 |
| S 31 | 16 37 5 | 10♊ 9'57 | 29♑26 | 7♊47 | 22♋59 | 15♈10 | 21♑50 | 18♉33 | 3♈26 | 14♒13 | 7♋33 | 22♐44 | 23♐33 | 26♉50 | 5♈32 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 15n15 | 23s22 | 0s 8 | 3n14 | 3s 0 | 24n52 | 1n52 | 4s17 | 1s24 | 21s44 | 0s 7 | 14n19 | 2s 3 | 0n15 | 0s42 | 16s43 | 0s 8 | 20n55 | 2s23 | 23s19 | 23s23 | 21n18 | 4n15 | 2n47 |
| S 2 | 15 33 | 22 9 | 1n11 | 3 42 | 3 1 | 25 0 | 1 54 | 3 59 | 1 25 | 21 43 | 0 7 | 14 21 | 2 3 | 0 16 | 0 42 | 16 43 | 0 8 | 20 55 | 2 23 | 23 19 | 23 23 | 21 19 | 4 16 | 2 47 |
| S 3 | 15 51 | 19 33 | 2 23 | 4 11 | 3 0 | 25 7 | 1 56 | 3 41 | 1 25 | 21 43 | 0 7 | 14 24 | 2 3 | 0 17 | 0 42 | 16 43 | 0 8 | 20 55 | 2 23 | 23 19 | 23 23 | 21 20 | 4 17 | 2 47 |
| M 4 | 16 8 | 15 54 | 3 24 | 4 42 | 2 59 | 25 14 | 1 58 | 3 23 | 1 25 | 21 43 | 0 7 | 14 26 | 2 3 | 0 19 | 0 42 | 16 43 | 0 8 | 20 55 | 2 23 | 23 19 | 23 23 | 21 21 | 4 18 | 2 47 |
| T 5 | 16 25 | 11 33 | 4 13 | 5 14 | 2 58 | 25 19 | 2 0 | 3 5 | 1 25 | 21 43 | 0 8 | 14 28 | 2 3 | 0 20 | 0 42 | 16 43 | 0 8 | 20 55 | 2 23 | 23 19 | 23 23 | 21 22 | 4 19 | 2 47 |
| W 6 | 16 42 | 6 47 | 4 47 | 5 47 | 2 55 | 25 25 | 2 2 | 2 46 | 1 25 | 21 43 | 0 8 | 14 31 | 2 3 | 0 21 | 0 42 | 16 43 | 0 8 | 20 55 | 2 23 | 23 19 | 23 23 | 21 23 | 4 21 | 2 47 |
| T 7 | 16 58 | 1 51 | 5 7 | 6 21 | 2 53 | 25 29 | 2 4 | 2 28 | 1 25 | 21 43 | 0 8 | 14 33 | 2 3 | 0 22 | 0 42 | 16 42 | 0 8 | 20 55 | 2 23 | 23 19 | 23 23 | 21 24 | 4 22 | 2 47 |
| F 8 | 17 15 | 3n 3 | 5 11 | 6 56 | 2 49 | 25 33 | 2 6 | 2 10 | 1 25 | 21 43 | 0 8 | 14 35 | 2 3 | 0 23 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 19 | 23 23 | 21 25 | 4 23 | 2 47 |
| S 9 | 17 31 | 7 46 | 5 1 | 7 32 | 2 45 | 25 36 | 2 8 | 1 52 | 1 25 | 21 44 | 0 8 | 14 37 | 2 3 | 0 24 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 18 | 23 23 | 21 25 | 4 24 | 2 47 |
| S 10 | 17 46 | 12 7 | 4 38 | 8 9 | 2 41 | 25 38 | 2 9 | 1 34 | 1 25 | 21 44 | 0 8 | 14 40 | 2 3 | 0 25 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 18 | 23 22 | 21 26 | 4 25 | 2 47 |
| M11 | 18 2 | 15 58 | 4 3 | 8 48 | 2 36 | 25 40 | 2 11 | 1 16 | 1 26 | 21 44 | 0 9 | 14 42 | 2 3 | 0 26 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 18 | 23 22 | 21 27 | 4 26 | 2 47 |
| T 12 | 18 17 | 19 9 | 3 17 | 9 26 | 2 30 | 25 41 | 2 12 | 0 58 | 1 26 | 21 44 | 0 9 | 14 44 | 2 3 | 0 27 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 17 | 23 22 | 21 28 | 4 28 | 2 47 |
| W13 | 18 32 | 21 31 | 2 24 | 10 6 | 2 24 | 25 41 | 2 14 | 0 40 | 1 26 | 21 44 | 0 9 | 14 46 | 2 3 | 0 28 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 17 | 23 22 | 21 29 | 4 29 | 2 47 |
| T 14 | 18 46 | 22 57 | 1 23 | 10 46 | 2 17 | 25 40 | 2 15 | 0 22 | 1 26 | 21 45 | 0 9 | 14 48 | 2 3 | 0 29 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 17 | 23 22 | 21 30 | 4 30 | 2 47 |
| F 15 | 19 0 | 23 22 | 0 20 | 11 27 | 2 10 | 25 39 | 2 16 | 0 4 | 1 26 | 21 45 | 0 9 | 14 51 | 2 3 | 0 30 | 0 43 | 16 42 | 0 8 | 20 55 | 2 22 | 23 17 | 23 22 | 21 31 | 4 31 | 2 47 |
| S 16 | 19 14 | 22 43 | 0s46 | 12 9 | 2 3 | 25 37 | 2 17 | 0n15 | 1 26 | 21 45 | 0 9 | 14 53 | 2 3 | 0 31 | 0 43 | 16 42 | 0 8 | 20 56 | 2 22 | 23 17 | 23 22 | 21 32 | 4 32 | 2 47 |
| S 17 | 19 28 | 21 1 | 1 50 | 12 50 | 1 55 | 25 35 | 2 18 | 0 33 | 1 26 | 21 46 | 0 9 | 14 55 | 2 3 | 0 31 | 0 43 | 16 42 | 0 8 | 20 56 | 2 22 | 23 17 | 23 21 | 21 33 | 4 33 | 2 47 |
| M18 | 19 41 | 18 21 | 2 49 | 13 32 | 1 46 | 25 32 | 2 19 | 0 50 | 1 26 | 21 46 | 0 10 | 14 57 | 2 3 | 0 32 | 0 43 | 16 42 | 0 8 | 20 56 | 2 22 | 23 17 | 23 21 | 21 33 | 4 34 | 2 47 |
| T 19 | 19 54 | 14 48 | 3 43 | 14 15 | 1 37 | 25 28 | 2 20 | 1 8 | 1 26 | 21 47 | 0 10 | 14 59 | 2 3 | 0 33 | 0 43 | 16 42 | 0 8 | 20 56 | 2 21 | 23 17 | 23 21 | 21 34 | 4 35 | 2 47 |
| W20 | 20 6 | 10 31 | 4 26 | 14 57 | 1 28 | 25 23 | 2 21 | 1 26 | 1 26 | 21 47 | 0 10 | 15 2 | 2 3 | 0 34 | 0 43 | 16 42 | 0 8 | 20 56 | 2 21 | 23 17 | 23 21 | 21 35 | 4 36 | 2 47 |
| T 21 | 20 19 | 5 38 | 4 58 | 15 39 | 1 18 | 25 18 | 2 22 | 1 44 | 1 26 | 21 48 | 0 10 | 15 4 | 2 3 | 0 35 | 0 43 | 16 42 | 0 8 | 20 56 | 2 21 | 23 17 | 23 21 | 21 36 | 4 37 | 2 47 |
| F 22 | 20 30 | 0 22 | 5 14 | 16 22 | 1 9 | 25 12 | 2 22 | 2 2 | 1 26 | 21 48 | 0 10 | 15 6 | 2 3 | 0 36 | 0 43 | 16 42 | 0 8 | 20 56 | 2 21 | 23 17 | 23 21 | 21 37 | 4 38 | 2 47 |
| S 23 | 20 42 | 5s 6 | 5 13 | 17 4 | 0 58 | 25 6 | 2 23 | 2 20 | 1 26 | 21 49 | 0 10 | 15 8 | 2 3 | 0 37 | 0 43 | 16 43 | 0 8 | 20 56 | 2 21 | 23 17 | 23 21 | 21 38 | 4 39 | 2 48 |
| S 24 | 20 53 | 10 29 | 4 52 | 17 45 | 0 48 | 24 59 | 2 23 | 2 38 | 1 26 | 21 49 | 0 11 | 15 10 | 2 3 | 0 37 | 0 43 | 16 43 | 0 8 | 20 56 | 2 21 | 23 17 | 23 20 | 21 39 | 4 40 | 2 48 |
| M25 | 21 4 | 15 24 | 4 12 | 18 26 | 0 37 | 24 51 | 2 23 | 2 55 | 1 26 | 21 50 | 0 11 | 15 12 | 2 3 | 0 38 | 0 43 | 16 43 | 0 8 | 20 56 | 2 21 | 23 17 | 23 20 | 21 39 | 4 41 | 2 48 |
| T 26 | 21 14 | 19 27 | 3 14 | 19 5 | 0 27 | 24 43 | 2 23 | 3 13 | 1 25 | 21 50 | 0 11 | 15 14 | 2 3 | 0 39 | 0 43 | 16 43 | 0 8 | 20 56 | 2 21 | 23 17 | 23 20 | 21 40 | 4 42 | 2 48 |
| W27 | 21 24 | 22 12 | 2 2 | 19 44 | 0 16 | 24 34 | 2 23 | 3 31 | 1 25 | 21 51 | 0 11 | 15 16 | 2 3 | 0 40 | 0 43 | 16 43 | 0 8 | 20 56 | 2 21 | 23 17 | 23 20 | 21 41 | 4 43 | 2 48 |
| T 28 | 21 34 | 23 21 | 0 41 | 20 22 | 0 5 | 24 24 | 2 23 | 3 48 | 1 25 | 21 52 | 0 11 | 15 18 | 2 3 | 0 40 | 0 43 | 16 43 | 0 8 | 20 56 | 2 21 | 23 17 | 23 20 | 21 42 | 4 44 | 2 48 |
| F 29 | 21 43 | 22 46 | 0n42 | 20 58 | 0n 5 | 24 14 | 2 23 | 4 6 | 1 25 | 21 53 | 0 11 | 15 20 | 2 3 | 0 41 | 0 43 | 16 43 | 0 8 | 20 56 | 2 21 | 23 17 | 23 20 | 21 43 | 4 45 | 2 48 |
| S 30 | 21 52 | 20 37 | 2 1 | 21 32 | 0 16 | 24 3 | 2 23 | 4 23 | 1 25 | 21 53 | 0 12 | 15 22 | 2 3 | 0 42 | 0 43 | 16 43 | 0 8 | 20 56 | 2 20 | 23 17 | 23 20 | 21 43 | 4 46 | 2 48 |
| S 31 | 22n 1 | 17s12 | 3n10 | 22n 5 | 0n26 | 23n52 | 2n22 | 4n41 | 1s25 | 21s54 | 0s12 | 15n24 | 2s 3 | 0n43 | 0s43 | 16s43 | 0s 8 | 20n56 | 2s20 | 23s17 | 23s19 | 21n44 | 4n46 | 2n48 |

Julian Day Number = 2333327.5, Delta T = 25.81 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'20, Lahiri = 19°20'21Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## JUNE 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 41 2 | 11♊ 7'20 | 13♒20 | 9♊59 | 24♋ 5 | 15♈54 | 21°R46 | 18♉41 | 3♈28 | 14°R12 | 7♋34 | 22♐45 | 23♐29 | 26♉57 | 5♈34 | M 1 |
| T 2 | 16 44 58 | 12° 4'42 | 26°47 | 12°11 | 25°11 | 16°39 | 21♏42 | 18°48 | 3°30 | 14♒12 | 7°36 | 22°45 | 23°26 | 27° 4 | 5°36 | T 2 |
| W 3 | 16 48 55 | 13° 2'04 | 9♓50 | 14°23 | 26°16 | 17°24 | 21°37 | 18°55 | 3°31 | 14°11 | 7°37 | 22°R46 | 23°23 | 27°10 | 5°38 | W 3 |
| T 4 | 16 52 51 | 13°59'25 | 22°30 | 16°35 | 27°22 | 18° 8 | 21°33 | 19° 3 | 3°33 | 14°10 | 7°38 | 22°46 | 23°20 | 27°17 | 5°40 | T 4 |
| F 5 | 16 56 48 | 14°56'46 | 4♈53 | 18°46 | 28°27 | 18°53 | 21°28 | 19°10 | 3°35 | 14°10 | 7°40 | 22°45 | 23°17 | 27°24 | 5°41 | F 5 |
| S 6 | 17 0 44 | 15°54'07 | 17° 1 | 20°56 | 29°32 | 19°37 | 21°23 | 19°17 | 3°36 | 14° 9 | 7°41 | 22°44 | 23°14 | 27°30 | 5°43 | S 6 |
| S 7 | 17 4 41 | 16°51'26 | 28°59 | 23° 6 | 0♌37 | 20°21 | 21°18 | 19°24 | 3°38 | 14° 8 | 7°43 | 22°44 | 23°10 | 27°37 | 5°45 | S 7 |
| M 8 | 17 8 37 | 17°48'46 | 10♉50 | 25°14 | 1°41 | 21° 6 | 21°13 | 19°31 | 3°39 | 14° 8 | 7°44 | 22°43 | 23° 7 | 27°44 | 5°46 | M 8 |
| T 9 | 17 12 34 | 18°46'05 | 22°39 | 27°21 | 2°46 | 21°50 | 21° 8 | 19°39 | 3°41 | 14° 7 | 7°45 | 22°42 | 23° 4 | 27°50 | 5°48 | T 9 |
| W10 | 17 16 31 | 19°43'23 | 4♊26 | 29°26 | 3°50 | 22°34 | 21° 3 | 19°46 | 3°42 | 14° 6 | 7°47 | 22°42 | 23° 1 | 27°57 | 5°49 | W10 |
| T 11 | 17 20 27 | 20°40'41 | 16°17 | 1♋29 | 4°54 | 23°18 | 20°57 | 19°53 | 3°43 | 14° 6 | 7°48 | 22°42 | 22°58 | 28° 4 | 5°51 | T 11 |
| F 12 | 17 24 24 | 21°37'59 | 28°11 | 3°30 | 5°58 | 24° 2 | 20°51 | 20° 0 | 3°45 | 14° 5 | 7°50 | 22°D42 | 22°55 | 28°10 | 5°52 | F 12 |
| S 13 | 17 28 20 | 22°35'16 | 10♋12 | 5°30 | 7° 1 | 24°46 | 20°45 | 20° 7 | 3°46 | 14° 4 | 7°51 | 22°R42 | 22°51 | 28°17 | 5°54 | S 13 |
| S 14 | 17 32 17 | 23°32'32 | 22°22 | 7°27 | 8° 5 | 25°30 | 20°40 | 20°14 | 3°47 | 14° 3 | 7°53 | 22°42 | 22°48 | 28°24 | 5°55 | S 14 |
| M15 | 17 36 13 | 24°29'48 | 4♌43 | 9°22 | 9° 8 | 26°14 | 20°33 | 20°21 | 3°48 | 14° 2 | 7°54 | 22°42 | 22°45 | 28°30 | 5°56 | M15 |
| T 16 | 17 40 10 | 25°27'03 | 17°17 | 11°16 | 10°10 | 26°58 | 20°27 | 20°28 | 3°49 | 14° 1 | 7°56 | 22°42 | 22°42 | 28°37 | 5°58 | T 16 |
| W17 | 17 44 6 | 26°24'17 | 0♍ 6 | 13° 7 | 11°13 | 27°41 | 20°21 | 20°34 | 3°50 | 14° 0 | 7°57 | 22°41 | 22°39 | 28°44 | 5°59 | W17 |
| T 18 | 17 48 3 | 27°21'31 | 13°13 | 14°55 | 12°15 | 28°25 | 20°14 | 20°41 | 3°51 | 13°59 | 7°59 | 22°41 | 22°35 | 28°50 | 6° 0 | T 18 |
| F 19 | 17 52 0 | 28°18'44 | 26°40 | 16°42 | 13°17 | 29° 8 | 20° 8 | 20°48 | 3°52 | 13°58 | 8° 0 | 22°D41 | 22°32 | 28°57 | 6° 1 | F 19 |
| S 20 | 17 55 56 | 29°15'56 | 10♎28 | 18°26 | 14°18 | 29°52 | 20° 1 | 20°55 | 3°53 | 13°57 | 8° 2 | 22°41 | 22°29 | 29° 4 | 6° 2 | S 20 |
| S 21 | 17 59 53 | 0♋13'08 | 24°36 | 20° 8 | 15°20 | 0♉35 | 19°54 | 21° 1 | 3°54 | 13°56 | 8° 3 | 22°41 | 22°26 | 29°10 | 6° 3 | S 21 |
| M22 | 18 3 49 | 1°10'19 | 9♏ 5 | 21°48 | 16°21 | 1°19 | 19°48 | 21° 8 | 3°55 | 13°55 | 8° 5 | 22°42 | 22°23 | 29°17 | 6° 4 | M22 |
| T 23 | 18 7 46 | 2° 7'30 | 23°49 | 23°25 | 17°21 | 2° 2 | 19°41 | 21°14 | 3°56 | 13°54 | 8° 6 | 22°43 | 22°20 | 29°24 | 6° 5 | T 23 |
| W24 | 18 11 42 | 3° 4'41 | 8♐44 | 25° 0 | 18°21 | 2°45 | 19°34 | 21°21 | 3°56 | 13°53 | 8° 8 | 22°43 | 22°16 | 29°30 | 6° 5 | W24 |
| T 25 | 18 15 39 | 4° 1'51 | 23°43 | 26°33 | 19°21 | 3°28 | 19°26 | 21°27 | 3°57 | 13°52 | 8° 9 | 22°R43 | 22°13 | 29°37 | 6° 6 | T 25 |
| F 26 | 18 19 36 | 4°59'02 | 8♑38 | 28° 3 | 20°21 | 4°11 | 19°19 | 21°34 | 3°58 | 13°51 | 8°11 | 22°43 | 22°10 | 29°44 | 6° 7 | F 26 |
| S 27 | 18 23 32 | 5°56'12 | 23°19 | 29°32 | 21°20 | 4°54 | 19°12 | 21°40 | 3°58 | 13°49 | 8°12 | 22°42 | 22° 7 | 29°50 | 6° 8 | S 27 |
| S 28 | 18 27 29 | 6°53'22 | 7♒42 | 0♌58 | 22°19 | 5°37 | 19° 5 | 21°46 | 3°59 | 13°48 | 8°14 | 22°41 | 22° 4 | 29°57 | 6° 8 | S 28 |
| M29 | 18 31 25 | 7°50'32 | 21°42 | 2°21 | 23°17 | 6°20 | 18°57 | 21°52 | 3°59 | 13°47 | 8°15 | 22°39 | 22° 1 | 0♊ 3 | 6° 9 | M29 |
| T 30 | 18 35 22 | 8♋47'42 | 5♓15 | 3♌42 | 24♌15 | 7♉ 2 | 18♏50 | 21♉59 | 4♈ 0 | 13♒46 | 8♋17 | 22♐37 | 21♐57 | 0♊10 | 6♈ 9 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22n 9 | 12s55 | 4n 5 | 22n35 | 0n36 | 23n40 | 2n22 | 4n58 | 1s25 | 21s55 | 0s12 | 15n26 | 2s 3 | 0n43 | 0s43 | 16s44 | 0s 8 | 20n56 | 2s20 | 23s17 | 23s19 | 21n45 | 4n47 | 2n48 |
| T 2 | 22 17 | 8 8 | 4 45 | 23 3 | 0 46 | 23 27 | 2 21 | 5 15 | 1 25 | 21 56 | 0 12 | 15 28 | 2 3 | 0 44 | 0 43 | 16 44 | 0 8 | 20 56 | 2 20 | 23 17 | 23 19 | 21 46 | 4 48 | 2 48 |
| W 3 | 22 24 | 3 7 | 5 9 | 23 29 | 0 55 | 23 14 | 2 20 | 5 32 | 1 25 | 21 57 | 0 12 | 15 30 | 2 3 | 0 45 | 0 43 | 16 44 | 0 8 | 20 56 | 2 20 | 23 17 | 23 19 | 21 47 | 4 49 | 2 48 |
| T 4 | 22 31 | 1n53 | 5 17 | 23 52 | 1 4 | 23 0 | 2 20 | 5 49 | 1 24 | 21 57 | 0 12 | 15 32 | 2 3 | 0 45 | 0 43 | 16 44 | 0 8 | 20 56 | 2 20 | 23 17 | 23 19 | 21 47 | 4 50 | 2 48 |
| F 5 | 22 38 | 6 41 | 5 10 | 24 12 | 1 12 | 22 46 | 2 19 | 6 7 | 1 24 | 21 58 | 0 13 | 15 34 | 2 3 | 0 46 | 0 43 | 16 44 | 0 8 | 20 56 | 2 20 | 23 17 | 23 19 | 21 48 | 4 50 | 2 48 |
| S 6 | 22 44 | 11 9 | 4 49 | 24 30 | 1 20 | 22 31 | 2 17 | 6 24 | 1 24 | 21 59 | 0 13 | 15 36 | 2 3 | 0 46 | 0 43 | 16 45 | 0 8 | 20 56 | 2 20 | 23 17 | 23 18 | 21 49 | 4 51 | 2 49 |
| S 7 | 22 50 | 15 7 | 4 16 | 24 45 | 1 27 | 22 16 | 2 16 | 6 40 | 1 24 | 22 0 | 0 13 | 15 38 | 2 3 | 0 47 | 0 43 | 16 45 | 0 8 | 20 56 | 2 20 | 23 17 | 23 18 | 21 50 | 4 52 | 2 49 |
| M 8 | 22 55 | 18 28 | 3 32 | 24 57 | 1 34 | 22 0 | 2 15 | 6 57 | 1 24 | 22 1 | 0 13 | 15 40 | 2 3 | 0 48 | 0 43 | 16 45 | 0 8 | 20 56 | 2 20 | 23 17 | 23 18 | 21 50 | 4 53 | 2 49 |
| T 9 | 23 0 | 21 2 | 2 39 | 25 7 | 1 39 | 21 44 | 2 13 | 7 14 | 1 23 | 22 2 | 0 13 | 15 42 | 2 4 | 0 48 | 0 43 | 16 45 | 0 8 | 20 56 | 2 20 | 23 17 | 23 18 | 21 51 | 4 53 | 2 49 |
| W10 | 23 5 | 22 42 | 1 40 | 25 13 | 1 44 | 21 27 | 2 12 | 7 31 | 1 23 | 22 3 | 0 13 | 15 43 | 2 4 | 0 49 | 0 43 | 16 45 | 0 8 | 20 56 | 2 20 | 23 17 | 23 18 | 21 52 | 4 54 | 2 49 |
| T 11 | 23 9 | 23 22 | 0 36 | 25 17 | 1 49 | 21 10 | 2 10 | 7 47 | 1 23 | 22 4 | 0 14 | 15 45 | 2 4 | 0 49 | 0 43 | 16 46 | 0 8 | 20 56 | 2 20 | 23 17 | 23 18 | 21 53 | 4 55 | 2 49 |
| F 12 | 23 13 | 22 58 | 0s30 | 25 18 | 1 52 | 20 53 | 2 8 | 8 3 | 1 23 | 22 5 | 0 14 | 15 47 | 2 4 | 0 50 | 0 43 | 16 46 | 0 8 | 20 56 | 2 19 | 23 17 | 23 17 | 21 53 | 4 55 | 2 49 |
| S 13 | 23 16 | 21 30 | 1 36 | 25 17 | 1 55 | 20 35 | 2 6 | 8 20 | 1 22 | 22 6 | 0 14 | 15 49 | 2 4 | 0 50 | 0 44 | 16 46 | 0 8 | 20 56 | 2 19 | 23 17 | 23 17 | 21 54 | 4 56 | 2 49 |
| S 14 | 23 19 | 19 2 | 2 38 | 25 13 | 1 57 | 20 16 | 2 4 | 8 36 | 1 22 | 22 7 | 0 14 | 15 51 | 2 4 | 0 50 | 0 44 | 16 46 | 0 8 | 20 56 | 2 19 | 23 17 | 23 17 | 21 55 | 4 56 | 2 49 |
| M15 | 23 22 | 15 40 | 3 33 | 25 7 | 1 58 | 19 57 | 2 1 | 8 52 | 1 22 | 22 8 | 0 14 | 15 52 | 2 4 | 0 51 | 0 44 | 16 47 | 0 8 | 20 56 | 2 19 | 23 17 | 23 17 | 21 56 | 4 57 | 2 49 |
| T 16 | 23 24 | 11 34 | 4 19 | 24 59 | 1 59 | 19 38 | 1 59 | 9 8 | 1 22 | 22 9 | 0 14 | 15 54 | 2 4 | 0 51 | 0 44 | 16 47 | 0 8 | 20 56 | 2 19 | 23 17 | 23 17 | 21 56 | 4 58 | 2 49 |
| W17 | 23 26 | 6 52 | 4 53 | 24 48 | 1 59 | 19 18 | 1 56 | 9 24 | 1 21 | 22 11 | 0 15 | 15 56 | 2 4 | 0 52 | 0 44 | 16 47 | 0 8 | 20 56 | 2 19 | 23 17 | 23 17 | 21 57 | 4 58 | 2 49 |
| T 18 | 23 27 | 1 47 | 5 13 | 24 36 | 1 58 | 18 58 | 1 53 | 9 40 | 1 21 | 22 12 | 0 15 | 15 58 | 2 4 | 0 52 | 0 44 | 16 48 | 0 8 | 20 56 | 2 19 | 23 17 | 23 16 | 21 58 | 4 59 | 2 49 |
| F 19 | 23 28 | 3s31 | 5 17 | 24 21 | 1 56 | 18 38 | 1 50 | 9 56 | 1 21 | 22 13 | 0 15 | 15 59 | 2 4 | 0 52 | 0 44 | 16 48 | 0 8 | 20 56 | 2 19 | 23 17 | 23 16 | 21 58 | 4 59 | 2 50 |
| S 20 | 23 29 | 8 47 | 5 2 | 24 6 | 1 54 | 18 17 | 1 47 | 10 11 | 1 20 | 22 14 | 0 15 | 16 1 | 2 4 | 0 53 | 0 44 | 16 48 | 0 8 | 20 56 | 2 19 | 23 17 | 23 16 | 21 59 | 5 0 | 2 50 |
| S 21 | 23 29 | 13 44 | 4 30 | 23 48 | 1 51 | 17 56 | 1 44 | 10 27 | 1 20 | 22 15 | 0 15 | 16 2 | 2 4 | 0 53 | 0 44 | 16 49 | 0 8 | 20 56 | 2 19 | 23 17 | 23 16 | 22 0 | 5 0 | 2 50 |
| M22 | 23 29 | 18 0 | 3 39 | 23 29 | 1 48 | 17 34 | 1 41 | 10 42 | 1 20 | 22 16 | 0 15 | 16 4 | 2 5 | 0 53 | 0 44 | 16 49 | 0 8 | 20 56 | 2 19 | 23 17 | 23 16 | 22 0 | 5 1 | 2 50 |
| T 23 | 23 28 | 21 14 | 2 34 | 23 9 | 1 43 | 17 12 | 1 37 | 10 57 | 1 19 | 22 17 | 0 16 | 16 6 | 2 5 | 0 54 | 0 44 | 16 49 | 0 8 | 20 55 | 2 19 | 23 17 | 23 15 | 22 1 | 5 1 | 2 50 |
| W24 | 23 27 | 23 4 | 1 17 | 22 47 | 1 39 | 16 50 | 1 34 | 11 13 | 1 19 | 22 19 | 0 16 | 16 7 | 2 5 | 0 54 | 0 44 | 16 49 | 0 8 | 20 55 | 2 19 | 23 17 | 23 15 | 22 2 | 5 1 | 2 50 |
| T 25 | 23 25 | 23 14 | 0n 6 | 22 24 | 1 33 | 16 28 | 1 30 | 11 28 | 1 19 | 22 20 | 0 16 | 16 9 | 2 5 | 0 54 | 0 44 | 16 50 | 0 9 | 20 55 | 2 19 | 23 17 | 23 15 | 22 2 | 5 2 | 2 50 |
| F 26 | 23 23 | 21 45 | 1 27 | 22 1 | 1 27 | 16 5 | 1 26 | 11 43 | 1 18 | 22 21 | 0 16 | 16 10 | 2 5 | 0 54 | 0 44 | 16 50 | 0 9 | 20 55 | 2 19 | 23 17 | 23 15 | 22 3 | 5 2 | 2 50 |
| S 27 | 23 21 | 18 48 | 2 42 | 21 36 | 1 21 | 15 42 | 1 22 | 11 57 | 1 18 | 22 22 | 0 16 | 16 12 | 2 5 | 0 55 | 0 44 | 16 51 | 0 9 | 20 55 | 2 18 | 23 17 | 23 15 | 22 4 | 5 2 | 2 50 |
| S 28 | 23 18 | 14 46 | 3 44 | 21 11 | 1 14 | 15 19 | 1 18 | 12 12 | 1 17 | 22 23 | 0 16 | 16 13 | 2 5 | 0 55 | 0 44 | 16 51 | 0 9 | 20 55 | 2 18 | 23 17 | 23 15 | 22 4 | 5 3 | 2 50 |
| M29 | 23 15 | 10 1 | 4 31 | 20 45 | 1 6 | 14 56 | 1 13 | 12 26 | 1 17 | 22 25 | 0 16 | 16 15 | 2 5 | 0 55 | 0 44 | 16 51 | 0 9 | 20 55 | 2 18 | 23 17 | 23 14 | 22 5 | 5 3 | 2 50 |
| T 30 | 23n11 | 4s55 | 5n 2 | 20n18 | 0n58 | 14n32 | 1n 9 | 12n41 | 1s17 | 22s26 | 0s17 | 16n16 | 2s 5 | 0n55 | 0s44 | 16s52 | 0s 9 | 20n55 | 2s18 | 23s16 | 23s14 | 22n 6 | 5n 3 | 2n51 |

Julian Day Number = 2333358.5, Delta T = 25.76 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'25, Lahiri = 19°20'25Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## JULY 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 39 18 | 9♋44'53 | 18♓23 | 5♌ 1 | 25♌13 | 7♉45 | 18°R42 | 22♉ 5 | 4♈ 0 | 13°R45 | 8♋18 | 22°R35 | 21♐54 | 0♊17 | 6♈10 | W 1 |
| T 2 | 18 43 15 | 10°42'04 | 1♈ 7 | 6°17 | 26°10 | 8°27 | 18♏35 | 22°11 | 4° 1 | 13♒43 | 8°20 | 22♐34 | 21°51 | 0°23 | 6°10 | T 2 |
| F 3 | 18 47 11 | 11°39'15 | 13°30 | 7°30 | 27° 6 | 9°10 | 18°27 | 22°17 | 4° 1 | 13°42 | 8°21 | 22°D34 | 21°48 | 0°30 | 6°10 | F 3 |
| S 4 | 18 51 8 | 12°36'27 | 25°38 | 8°41 | 28° 3 | 9°52 | 18°19 | 22°23 | 4° 1 | 13°41 | 8°23 | 22°34 | 21°45 | 0°37 | 6°11 | S 4 |
| S 5 | 18 55 5 | 13°33'40 | 7♉35 | 9°50 | 28°58 | 10°35 | 18°12 | 22°28 | 4° 1 | 13°39 | 8°25 | 22°36 | 21°41 | 0°43 | 6°11 | S 5 |
| M 6 | 18 59 1 | 14°30'52 | 19°25 | 10°55 | 29°54 | 11°17 | 18° 4 | 22°34 | 4° 1 | 13°38 | 8°26 | 22°37 | 21°38 | 0°50 | 6°11 | M 6 |
| T 7 | 19 2 58 | 15°28'05 | 1♊12 | 11°58 | 0♍48 | 11°59 | 17°56 | 22°40 | 4° 1 | 13°37 | 8°28 | 22°39 | 21°35 | 0°57 | 6°11 | T 7 |
| W 8 | 19 6 54 | 16°25'19 | 13° 2 | 12°58 | 1°43 | 12°41 | 17°49 | 22°46 | 4°R 2 | 13°35 | 8°29 | 22°40 | 21°32 | 1° 3 | 6°11 | W 8 |
| T 9 | 19 10 51 | 17°22'33 | 24°57 | 13°54 | 2°36 | 13°23 | 17°41 | 22°51 | 4° 2 | 13°34 | 8°31 | 22°R40 | 21°29 | 1°10 | 6°R11 | T 9 |
| F 10 | 19 14 47 | 18°19'48 | 7♋ 0 | 14°48 | 3°29 | 14° 5 | 17°33 | 22°57 | 4° 1 | 13°32 | 8°32 | 22°39 | 21°26 | 1°17 | 6°11 | F 10 |
| S 11 | 19 18 44 | 19°17'03 | 19°13 | 15°38 | 4°22 | 14°46 | 17°25 | 23° 2 | 4° 1 | 13°31 | 8°34 | 22°37 | 21°22 | 1°23 | 6°11 | S 11 |
| S 12 | 19 22 40 | 20°14'18 | 1♌38 | 16°25 | 5°14 | 15°28 | 17°18 | 23° 8 | 4° 1 | 13°29 | 8°35 | 22°34 | 21°19 | 1°30 | 6°11 | S 12 |
| M13 | 19 26 37 | 21°11'34 | 14°16 | 17° 8 | 6° 5 | 16°10 | 17°10 | 23°13 | 4° 1 | 13°28 | 8°37 | 22°30 | 21°16 | 1°37 | 6°11 | M13 |
| T 14 | 19 30 34 | 22° 8'50 | 27° 8 | 17°48 | 6°56 | 16°51 | 17° 2 | 23°18 | 4° 1 | 13°26 | 8°38 | 22°25 | 21°13 | 1°43 | 6°10 | T 14 |
| W15 | 19 34 30 | 23° 6'07 | 10♍13 | 18°24 | 7°46 | 17°32 | 16°55 | 23°23 | 4° 1 | 13°25 | 8°40 | 22°21 | 21°10 | 1°50 | 6°10 | W15 |
| T 16 | 19 38 27 | 24° 3'23 | 23°33 | 18°55 | 8°35 | 18°13 | 16°47 | 23°28 | 4° 0 | 13°23 | 8°41 | 22°17 | 21° 7 | 1°57 | 6°10 | T 16 |
| F 17 | 19 42 23 | 25° 0'40 | 7♎ 6 | 19°23 | 9°23 | 18°55 | 16°39 | 23°33 | 4° 0 | 13°22 | 8°43 | 22°14 | 21° 3 | 2° 3 | 6° 9 | F 17 |
| S 18 | 19 46 20 | 25°57'57 | 20°53 | 19°46 | 10°11 | 19°36 | 16°32 | 23°38 | 3°59 | 13°20 | 8°44 | 22°D13 | 21° 0 | 2°10 | 6° 9 | S 18 |
| S 19 | 19 50 16 | 26°55'15 | 4♏54 | 20° 5 | 10°58 | 20°16 | 16°24 | 23°43 | 3°59 | 13°19 | 8°45 | 22°13 | 20°57 | 2°17 | 6° 8 | S 19 |
| M20 | 19 54 13 | 27°52'33 | 19° 7 | 20°19 | 11°44 | 20°57 | 16°17 | 23°48 | 3°58 | 13°17 | 8°47 | 22°14 | 20°54 | 2°23 | 6° 8 | M20 |
| T 21 | 19 58 9 | 28°49'52 | 3♐32 | 20°28 | 12°30 | 21°38 | 16° 9 | 23°53 | 3°58 | 13°16 | 8°48 | 22°15 | 20°51 | 2°30 | 6° 7 | T 21 |
| W22 | 20 2 6 | 29°47'11 | 18° 4 | 20°R33 | 13°14 | 22°19 | 16° 2 | 23°57 | 3°57 | 13°14 | 8°50 | 22°R16 | 20°47 | 2°37 | 6° 6 | W22 |
| T 23 | 20 6 3 | 0♌44'30 | 2♑40 | 20°32 | 13°58 | 22°59 | 15°55 | 24° 2 | 3°56 | 13°13 | 8°51 | 22°16 | 20°44 | 2°43 | 6° 6 | T 23 |
| F 24 | 20 9 59 | 1°41'50 | 17°15 | 20°26 | 14°40 | 23°39 | 15°48 | 24° 6 | 3°56 | 13°11 | 8°53 | 22°14 | 20°41 | 2°50 | 6° 5 | F 24 |
| S 25 | 20 13 56 | 2°39'11 | 1♒41 | 20°15 | 15°22 | 24°20 | 15°41 | 24°11 | 3°55 | 13° 9 | 8°54 | 22°10 | 20°38 | 2°56 | 6° 4 | S 25 |
| S 26 | 20 17 52 | 3°36'32 | 15°54 | 19°59 | 16° 2 | 25° 0 | 15°34 | 24°15 | 3°54 | 13° 8 | 8°55 | 22° 4 | 20°35 | 3° 3 | 6° 3 | S 26 |
| M27 | 20 21 49 | 4°33'55 | 29°49 | 19°38 | 16°41 | 25°40 | 15°27 | 24°19 | 3°53 | 13° 6 | 8°57 | 21°58 | 20°32 | 3°10 | 6° 2 | M27 |
| T 28 | 20 25 45 | 5°31'18 | 13♓21 | 19°12 | 17°20 | 26°20 | 15°20 | 24°24 | 3°52 | 13° 5 | 8°58 | 21°51 | 20°28 | 3°16 | 6° 1 | T 28 |
| W29 | 20 29 42 | 6°28'43 | 26°29 | 18°42 | 17°57 | 27° 0 | 15°13 | 24°28 | 3°52 | 13° 3 | 9° 0 | 21°45 | 20°25 | 3°23 | 6° 0 | W29 |
| T 30 | 20 33 38 | 7°26'08 | 9♈14 | 18° 7 | 18°33 | 27°39 | 15° 6 | 24°32 | 3°51 | 13° 1 | 9° 1 | 21°40 | 20°22 | 3°30 | 5°59 | T 30 |
| F 31 | 20 37 35 | 8♌23'35 | 21♈40 | 17♌28 | 19♍ 8 | 28♉19 | 15♑ 0 | 24♉35 | 3♈49 | 13♒ 0 | 9♋ 2 | 21♐36 | 20♐19 | 3♊36 | 5♈58 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23n 7 | 0n14 | 5n15 | 19n51 | 0n50 | 14n 9 | 1n 4 | 12n55 | 1s16 | 22s27 | 0s17 | 16n18 | 2s 5 | 0n55 | 0s44 | 16s52 | 0s 9 | 20n55 | 2s18 | 23s16 | 23s14 | 22n 6 | 5n 4 | 2n51 |
| T 2 | 23 3 | 5 13 | 5 13 | 19 24 | 0 41 | 13 45 | 0 59 | 13 9 | 1 16 | 22 28 | 0 17 | 16 19 | 2 6 | 0 55 | 0 44 | 16 52 | 0 9 | 20 55 | 2 18 | 23 16 | 23 14 | 22 7 | 5 4 | 2 51 |
| F 3 | 22 58 | 9 52 | 4 55 | 18 56 | 0 31 | 13 20 | 0 54 | 13 23 | 1 15 | 22 29 | 0 17 | 16 21 | 2 6 | 0 55 | 0 44 | 16 53 | 0 9 | 20 55 | 2 18 | 23 16 | 23 14 | 22 7 | 5 4 | 2 51 |
| S 4 | 22 53 | 14 2 | 4 25 | 18 28 | 0 21 | 12 56 | 0 49 | 13 37 | 1 15 | 22 31 | 0 17 | 16 22 | 2 6 | 0 55 | 0 44 | 16 53 | 0 9 | 20 55 | 2 18 | 23 16 | 23 13 | 22 8 | 5 4 | 2 51 |
| S 5 | 22 47 | 17 35 | 3 44 | 18 0 | 0 11 | 12 32 | 0 43 | 13 51 | 1 14 | 22 32 | 0 17 | 16 23 | 2 6 | 0 55 | 0 44 | 16 54 | 0 9 | 20 55 | 2 18 | 23 16 | 23 13 | 22 9 | 5 4 | 2 51 |
| M 6 | 22 41 | 20 23 | 2 53 | 17 31 | 0 0 | 12 7 | 0 38 | 14 4 | 1 14 | 22 33 | 0 18 | 16 25 | 2 6 | 0 55 | 0 44 | 16 54 | 0 9 | 20 55 | 2 18 | 23 16 | 23 13 | 22 9 | 5 5 | 2 51 |
| T 7 | 22 35 | 22 19 | 1 56 | 17 3 | 0s11 | 11 42 | 0 32 | 14 18 | 1 13 | 22 34 | 0 18 | 16 26 | 2 6 | 0 55 | 0 44 | 16 54 | 0 9 | 20 55 | 2 18 | 23 17 | 23 13 | 22 10 | 5 5 | 2 51 |
| W 8 | 22 28 | 23 17 | 0 53 | 16 35 | 0 23 | 11 17 | 0 26 | 14 31 | 1 13 | 22 35 | 0 18 | 16 27 | 2 6 | 0 55 | 0 44 | 16 55 | 0 9 | 20 55 | 2 18 | 23 17 | 23 13 | 22 10 | 5 5 | 2 51 |
| T 9 | 22 21 | 23 11 | 0s13 | 16 8 | 0 35 | 10 53 | 0 20 | 14 44 | 1 12 | 22 36 | 0 18 | 16 29 | 2 6 | 0 55 | 0 44 | 16 55 | 0 9 | 20 55 | 2 18 | 23 17 | 23 12 | 22 11 | 5 5 | 2 51 |
| F 10 | 22 13 | 22 0 | 1 18 | 15 41 | 0 47 | 10 28 | 0 14 | 14 57 | 1 12 | 22 38 | 0 18 | 16 30 | 2 7 | 0 55 | 0 44 | 16 56 | 0 9 | 20 55 | 2 18 | 23 17 | 23 12 | 22 11 | 5 5 | 2 51 |
| S 11 | 22 5 | 19 47 | 2 21 | 15 14 | 0 59 | 10 2 | 0 7 | 15 10 | 1 11 | 22 39 | 0 18 | 16 31 | 2 7 | 0 55 | 0 44 | 16 56 | 0 9 | 20 55 | 2 18 | 23 16 | 23 12 | 22 12 | 5 5 | 2 52 |
| S 12 | 21 57 | 16 37 | 3 18 | 14 48 | 1 12 | 9 37 | 0 1 | 15 22 | 1 11 | 22 40 | 0 18 | 16 32 | 2 7 | 0 55 | 0 44 | 16 57 | 0 9 | 20 55 | 2 18 | 23 16 | 23 12 | 22 13 | 5 5 | 2 52 |
| M13 | 21 48 | 12 39 | 4 6 | 14 23 | 1 25 | 9 12 | 0s 6 | 15 35 | 1 10 | 22 41 | 0 19 | 16 34 | 2 7 | 0 55 | 0 45 | 16 57 | 0 9 | 20 55 | 2 18 | 23 16 | 23 12 | 22 13 | 5 5 | 2 52 |
| T 14 | 21 39 | 8 3 | 4 43 | 13 58 | 1 38 | 8 47 | 0 13 | 15 47 | 1 10 | 22 42 | 0 19 | 16 35 | 2 7 | 0 55 | 0 45 | 16 57 | 0 9 | 20 55 | 2 18 | 23 16 | 23 11 | 22 14 | 5 5 | 2 52 |
| W15 | 21 30 | 3 2 | 5 6 | 13 34 | 1 52 | 8 22 | 0 20 | 15 59 | 1 9 | 22 43 | 0 19 | 16 36 | 2 7 | 0 55 | 0 45 | 16 58 | 0 9 | 20 55 | 2 18 | 23 16 | 23 11 | 22 14 | 5 5 | 2 52 |
| T 16 | 21 20 | 2s13 | 5 12 | 13 12 | 2 5 | 7 57 | 0 27 | 16 12 | 1 8 | 22 44 | 0 19 | 16 37 | 2 7 | 0 55 | 0 45 | 16 58 | 0 9 | 20 55 | 2 18 | 23 15 | 23 11 | 22 15 | 5 5 | 2 52 |
| F 17 | 21 10 | 7 27 | 5 2 | 12 50 | 2 19 | 7 32 | 0 35 | 16 23 | 1 8 | 22 45 | 0 19 | 16 38 | 2 8 | 0 55 | 0 45 | 16 59 | 0 9 | 20 54 | 2 17 | 23 15 | 23 11 | 22 15 | 5 5 | 2 52 |
| S 18 | 20 59 | 12 24 | 4 34 | 12 30 | 2 32 | 7 6 | 0 42 | 16 35 | 1 7 | 22 46 | 0 19 | 16 39 | 2 8 | 0 54 | 0 45 | 16 59 | 0 9 | 20 54 | 2 17 | 23 15 | 23 10 | 22 16 | 5 5 | 2 52 |
| S 19 | 20 49 | 16 47 | 3 50 | 12 12 | 2 46 | 6 41 | 0 50 | 16 47 | 1 6 | 22 47 | 0 19 | 16 40 | 2 8 | 0 54 | 0 45 | 17 0 | 0 9 | 20 54 | 2 17 | 23 15 | 23 10 | 22 16 | 5 5 | 2 52 |
| M20 | 20 37 | 20 16 | 2 51 | 11 55 | 2 59 | 6 16 | 0 58 | 16 58 | 1 6 | 22 49 | 0 19 | 16 41 | 2 8 | 0 54 | 0 45 | 17 0 | 0 9 | 20 54 | 2 17 | 23 15 | 23 10 | 22 17 | 5 4 | 2 52 |
| T 21 | 20 26 | 22 32 | 1 40 | 11 39 | 3 12 | 5 52 | 1 6 | 17 9 | 1 5 | 22 50 | 0 20 | 16 42 | 2 8 | 0 54 | 0 45 | 17 1 | 0 9 | 20 54 | 2 17 | 23 15 | 23 10 | 22 17 | 5 4 | 2 52 |
| W22 | 20 14 | 23 19 | 0 23 | 11 26 | 3 25 | 5 27 | 1 15 | 17 20 | 1 5 | 22 51 | 0 20 | 16 43 | 2 8 | 0 53 | 0 45 | 17 1 | 0 9 | 20 54 | 2 17 | 23 15 | 23 10 | 22 18 | 5 4 | 2 52 |
| T 23 | 20 2 | 22 31 | 0n56 | 11 14 | 3 37 | 5 2 | 1 23 | 17 31 | 1 4 | 22 52 | 0 20 | 16 44 | 2 9 | 0 53 | 0 45 | 17 1 | 0 9 | 20 54 | 2 17 | 23 15 | 23 9 | 22 18 | 5 4 | 2 53 |
| F 24 | 19 49 | 20 11 | 2 12 | 11 4 | 3 49 | 4 38 | 1 32 | 17 42 | 1 3 | 22 52 | 0 20 | 16 45 | 2 9 | 0 53 | 0 45 | 17 2 | 0 9 | 20 54 | 2 17 | 23 15 | 23 9 | 22 19 | 5 4 | 2 53 |
| S 25 | 19 36 | 16 36 | 3 18 | 10 57 | 4 1 | 4 14 | 1 41 | 17 53 | 1 3 | 22 53 | 0 20 | 16 46 | 2 9 | 0 52 | 0 45 | 17 2 | 0 9 | 20 54 | 2 17 | 23 15 | 23 9 | 22 19 | 5 3 | 2 53 |
| S 26 | 19 23 | 12 7 | 4 10 | 10 52 | 4 11 | 3 50 | 1 50 | 18 3 | 1 2 | 22 54 | 0 20 | 16 47 | 2 9 | 0 52 | 0 45 | 17 3 | 0 9 | 20 54 | 2 17 | 23 15 | 23 9 | 22 20 | 5 3 | 2 53 |
| M27 | 19 9 | 7 5 | 4 47 | 10 49 | 4 21 | 3 26 | 1 59 | 18 13 | 1 1 | 22 55 | 0 20 | 16 48 | 2 9 | 0 52 | 0 45 | 17 3 | 0 9 | 20 54 | 2 17 | 23 14 | 23 9 | 22 20 | 5 3 | 2 53 |
| T 28 | 18 55 | 1 51 | 5 6 | 10 49 | 4 30 | 3 2 | 2 9 | 18 23 | 1 0 | 22 56 | 0 20 | 16 49 | 2 9 | 0 51 | 0 45 | 17 4 | 0 9 | 20 54 | 2 17 | 23 14 | 23 8 | 22 21 | 5 2 | 2 53 |
| W29 | 18 41 | 3n19 | 5 8 | 10 51 | 4 37 | 2 39 | 2 18 | 18 33 | 1 0 | 22 57 | 0 21 | 16 49 | 2 10 | 0 51 | 0 45 | 17 4 | 0 9 | 20 54 | 2 17 | 23 13 | 23 8 | 22 21 | 5 2 | 2 53 |
| T 30 | 18 27 | 8 11 | 4 55 | 10 56 | 4 43 | 2 16 | 2 28 | 18 43 | 0 59 | 22 58 | 0 21 | 16 50 | 2 10 | 0 50 | 0 45 | 17 5 | 0 9 | 20 54 | 2 17 | 23 13 | 23 8 | 22 22 | 5 2 | 2 53 |
| F 31 | 18n12 | 12n36 | 4n28 | 11n 3 | 4s48 | 1n53 | 2s38 | 18n52 | 0s58 | 22s59 | 0s21 | 16n51 | 2s10 | 0n50 | 0s45 | 17s 5 | 0s 9 | 20n54 | 2s17 | 23s13 | 23s 8 | 22n22 | 5n 1 | 2n53 |

Julian Day Number = 2333388.5, Delta T = 25.71 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'29, Lahiri = 19°20'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## AUGUST 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 41 32 | 9♌21'03 | 3♉48 | 16°R46 | 19♍41 | 28♉58 | 14°R53 | 24♉39 | 3°R48 | 12°R58 | 9♋ 4 | 21°R35 | 20♐16 | 3♊43 | 5°R57 | S 1 |
| S 2 | 20 45 28 | 10°18'33 | 15°45 | 16♌ 1 | 20°13 | 29°37 | 14♋47 | 24°43 | 3♈47 | 12♒57 | 9° 5 | 21°D34 | 20°12 | 3°50 | 5♈55 | S 2 |
| M 3 | 20 49 25 | 11°16'04 | 27°35 | 15°15 | 20°44 | 0♊17 | 14°41 | 24°47 | 3°46 | 12°55 | 9° 6 | 21♐35 | 20° 9 | 3°56 | 5°54 | M 3 |
| T 4 | 20 53 21 | 12°13'36 | 9♊23 | 14°27 | 21°13 | 0°56 | 14°35 | 24°50 | 3°45 | 12°53 | 9° 8 | 21°37 | 20° 6 | 4° 3 | 5°53 | T 4 |
| W 5 | 20 57 18 | 13°11'10 | 21°15 | 13°38 | 21°41 | 1°35 | 14°29 | 24°54 | 3°44 | 12°52 | 9° 9 | 21°R37 | 20° 3 | 4°10 | 5°51 | W 5 |
| T 6 | 21 1 14 | 14° 8'45 | 3♋15 | 12°50 | 22° 7 | 2°13 | 14°23 | 24°57 | 3°42 | 12°50 | 9°10 | 21°37 | 20° 0 | 4°16 | 5°50 | T 6 |
| F 7 | 21 5 11 | 15° 6'21 | 15°27 | 12° 4 | 22°32 | 2°52 | 14°17 | 25° 0 | 3°41 | 12°48 | 9°12 | 21°34 | 19°57 | 4°23 | 5°48 | F 7 |
| S 8 | 21 9 7 | 16° 3'59 | 27°53 | 11°20 | 22°55 | 3°31 | 14°12 | 25° 3 | 3°40 | 12°47 | 9°13 | 21°29 | 19°53 | 4°30 | 5°47 | S 8 |
| S 9 | 21 13 4 | 17° 1'38 | 10♌35 | 10°39 | 23°16 | 4° 9 | 14° 6 | 25° 6 | 3°38 | 12°45 | 9°14 | 21°22 | 19°50 | 4°36 | 5°45 | S 9 |
| M10 | 21 17 1 | 17°59'18 | 23°33 | 10° 3 | 23°36 | 4°47 | 14° 1 | 25° 9 | 3°37 | 12°43 | 9°15 | 21°13 | 19°47 | 4°43 | 5°44 | M10 |
| T 11 | 21 20 57 | 18°56'59 | 6♍48 | 9°31 | 23°54 | 5°25 | 13°56 | 25°12 | 3°35 | 12°42 | 9°17 | 21° 3 | 19°44 | 4°50 | 5°42 | T 11 |
| W12 | 21 24 54 | 19°54'42 | 20°16 | 9° 5 | 24° 9 | 6° 3 | 13°51 | 25°15 | 3°34 | 12°40 | 9°18 | 20°53 | 19°41 | 4°56 | 5°40 | W12 |
| T 13 | 21 28 50 | 20°52'26 | 3♎57 | 8°46 | 24°23 | 6°41 | 13°46 | 25°18 | 3°32 | 12°39 | 9°19 | 20°45 | 19°38 | 5° 3 | 5°39 | T 13 |
| F 14 | 21 32 47 | 21°50'11 | 17°47 | 8°33 | 24°35 | 7°19 | 13°41 | 25°20 | 3°31 | 12°37 | 9°20 | 20°38 | 19°34 | 5°10 | 5°37 | F 14 |
| S 15 | 21 36 43 | 22°47'57 | 1♏44 | 8°D27 | 24°45 | 7°56 | 13°37 | 25°23 | 3°29 | 12°35 | 9°21 | 20°34 | 19°31 | 5°16 | 5°35 | S 15 |
| S 16 | 21 40 40 | 23°45'44 | 15°46 | 8°29 | 24°52 | 8°34 | 13°33 | 25°25 | 3°27 | 12°34 | 9°23 | 20°32 | 19°28 | 5°23 | 5°33 | S 16 |
| M17 | 21 44 36 | 24°43'33 | 29°53 | 8°38 | 24°58 | 9°11 | 13°29 | 25°27 | 3°26 | 12°32 | 9°24 | 20°D32 | 19°25 | 5°29 | 5°31 | M17 |
| T 18 | 21 48 33 | 25°41'22 | 14♐ 3 | 8°55 | 25° 1 | 9°48 | 13°25 | 25°29 | 3°24 | 12°31 | 9°25 | 20°R33 | 19°22 | 5°36 | 5°29 | T 18 |
| W19 | 21 52 30 | 26°39'13 | 28°15 | 9°20 | 25°R 1 | 10°25 | 13°21 | 25°31 | 3°22 | 12°29 | 9°26 | 20°33 | 19°18 | 5°43 | 5°27 | W19 |
| T 20 | 21 56 26 | 27°37'05 | 12♋26 | 9°53 | 25° 0 | 11° 1 | 13°17 | 25°33 | 3°20 | 12°27 | 9°27 | 20°31 | 19°15 | 5°49 | 5°25 | T 20 |
| F 21 | 22 0 23 | 28°34'59 | 26°35 | 10°33 | 24°56 | 11°38 | 13°14 | 25°35 | 3°19 | 12°26 | 9°28 | 20°27 | 19°12 | 5°56 | 5°23 | F 21 |
| S 22 | 22 4 19 | 29°32'53 | 10♒38 | 11°21 | 24°50 | 12°14 | 13°10 | 25°37 | 3°17 | 12°24 | 9°29 | 20°20 | 19° 9 | 6° 3 | 5°21 | S 22 |
| S 23 | 22 8 16 | 0♍30'49 | 24°31 | 12°16 | 24°41 | 12°50 | 13° 7 | 25°39 | 3°15 | 12°23 | 9°30 | 20°10 | 19° 6 | 6° 9 | 5°19 | S 23 |
| M24 | 22 12 12 | 1°28'47 | 8♓ 9 | 13°18 | 24°30 | 13°26 | 13° 4 | 25°40 | 3°13 | 12°21 | 9°31 | 19°59 | 19° 3 | 6°16 | 5°17 | M24 |
| T 25 | 22 16 9 | 2°26'46 | 21°30 | 14°27 | 24°17 | 14° 2 | 13° 2 | 25°42 | 3°11 | 12°20 | 9°32 | 19°48 | 18°59 | 6°23 | 5°14 | T 25 |
| W26 | 22 20 5 | 3°24'47 | 4♈31 | 15°42 | 24° 1 | 14°38 | 12°59 | 25°43 | 3° 9 | 12°18 | 9°33 | 19°37 | 18°56 | 6°29 | 5°12 | W26 |
| T 27 | 22 24 2 | 4°22'50 | 17°12 | 17° 3 | 23°43 | 15°14 | 12°57 | 25°44 | 3° 7 | 12°17 | 9°34 | 19°27 | 18°53 | 6°36 | 5°10 | T 27 |
| F 28 | 22 27 59 | 5°20'54 | 29°35 | 18°29 | 23°22 | 15°49 | 12°54 | 25°45 | 3° 5 | 12°15 | 9°35 | 19°20 | 18°50 | 6°43 | 5° 8 | F 28 |
| S 29 | 22 31 55 | 6°19'01 | 11♉43 | 20° 0 | 23° 0 | 16°24 | 12°52 | 25°46 | 3° 3 | 12°14 | 9°36 | 19°15 | 18°47 | 6°49 | 5° 5 | S 29 |
| S 30 | 22 35 52 | 7°17'10 | 23°39 | 21°36 | 22°35 | 16°59 | 12°51 | 25°47 | 3° 1 | 12°12 | 9°37 | 19°13 | 18°44 | 6°56 | 5° 3 | S 30 |
| M31 | 22 39 48 | 8♍15'20 | 5♊29 | 23♌15 | 22♍ 8 | 17♊34 | 12♋49 | 25♉48 | 2♈59 | 12♒11 | 9♋38 | 19°D12 | 18♐40 | 7♊ 3 | 5♈ 1 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17n57 | 16n24 | 3n49 | 11n13 | 4s51 | 1n31 | 2s48 | 19n 2 | 0s57 | 23s 0 | 0s21 | 16n52 | 2s10 | 0n50 | 0s45 | 17s 6 | 0s 9 | 20n54 | 2s17 | 23s13 | 23s 7 | 22n22 | 5n 1 | 2n53 |
| S 2 | 17 41 | 19 29 | 3 1 | 11 24 | 4 52 | 1 9 | 2 59 | 19 11 | 0 57 | 23 0 | 0 21 | 16 52 | 2 10 | 0 49 | 0 45 | 17 6 | 0 9 | 20 54 | 2 17 | 23 13 | 23 7 | 22 23 | 5 0 | 2 53 |
| M 3 | 17 26 | 21 42 | 2 6 | 11 38 | 4 52 | 0 47 | 3 9 | 19 20 | 0 56 | 23 1 | 0 21 | 16 53 | 2 10 | 0 49 | 0 45 | 17 7 | 0 9 | 20 53 | 2 17 | 23 13 | 23 7 | 22 23 | 5 0 | 2 53 |
| T 4 | 17 10 | 22 59 | 1 6 | 11 54 | 4 50 | 0 25 | 3 20 | 19 29 | 0 55 | 23 2 | 0 21 | 16 54 | 2 11 | 0 48 | 0 45 | 17 7 | 0 9 | 20 53 | 2 17 | 23 13 | 23 7 | 22 24 | 4 59 | 2 53 |
| W 5 | 16 53 | 23 13 | 0 2 | 12 12 | 4 46 | 0 5 | 3 31 | 19 38 | 0 54 | 23 3 | 0 21 | 16 55 | 2 11 | 0 48 | 0 45 | 17 8 | 0 9 | 20 53 | 2 17 | 23 13 | 23 6 | 22 24 | 4 59 | 2 53 |
| T 6 | 16 37 | 22 24 | 1s 2 | 12 31 | 4 40 | 0s16 | 3 42 | 19 46 | 0 53 | 23 3 | 0 21 | 16 55 | 2 11 | 0 47 | 0 45 | 17 8 | 0 9 | 20 53 | 2 17 | 23 13 | 23 6 | 22 25 | 4 58 | 2 53 |
| F 7 | 16 20 | 20 31 | 2 5 | 12 51 | 4 32 | 0 36 | 3 53 | 19 55 | 0 53 | 23 4 | 0 22 | 16 56 | 2 11 | 0 47 | 0 45 | 17 9 | 0 9 | 20 53 | 2 17 | 23 13 | 23 6 | 22 25 | 4 58 | 2 54 |
| S 8 | 16 3 | 17 39 | 3 2 | 13 12 | 4 23 | 0 55 | 4 4 | 20 3 | 0 52 | 23 5 | 0 22 | 16 56 | 2 11 | 0 46 | 0 45 | 17 9 | 0 9 | 20 53 | 2 17 | 23 12 | 23 6 | 22 25 | 4 57 | 2 54 |
| S 9 | 15 46 | 13 54 | 3 52 | 13 33 | 4 12 | 1 14 | 4 15 | 20 11 | 0 51 | 23 6 | 0 22 | 16 57 | 2 11 | 0 45 | 0 45 | 17 9 | 0 9 | 20 53 | 2 17 | 23 12 | 23 5 | 22 26 | 4 57 | 2 54 |
| M10 | 15 28 | 9 26 | 4 30 | 13 55 | 3 59 | 1 32 | 4 27 | 20 19 | 0 50 | 23 6 | 0 22 | 16 57 | 2 12 | 0 45 | 0 45 | 17 10 | 0 9 | 20 53 | 2 17 | 23 11 | 23 5 | 22 26 | 4 56 | 2 54 |
| T 11 | 15 10 | 4 27 | 4 55 | 14 17 | 3 45 | 1 50 | 4 38 | 20 26 | 0 49 | 23 7 | 0 22 | 16 58 | 2 12 | 0 44 | 0 45 | 17 10 | 0 9 | 20 53 | 2 17 | 23 11 | 23 5 | 22 26 | 4 56 | 2 54 |
| W12 | 14 52 | 0s49 | 5 5 | 14 38 | 3 30 | 2 7 | 4 50 | 20 34 | 0 48 | 23 7 | 0 22 | 16 58 | 2 12 | 0 44 | 0 45 | 17 11 | 0 9 | 20 53 | 2 17 | 23 10 | 23 5 | 22 27 | 4 55 | 2 54 |
| T 13 | 14 34 | 6 6 | 4 57 | 14 58 | 3 14 | 2 23 | 5 2 | 20 41 | 0 47 | 23 8 | 0 22 | 16 59 | 2 12 | 0 43 | 0 45 | 17 11 | 0 9 | 20 53 | 2 17 | 23 9 | 23 4 | 22 27 | 4 54 | 2 54 |
| F 14 | 14 15 | 11 10 | 4 31 | 15 18 | 2 58 | 2 38 | 5 13 | 20 48 | 0 46 | 23 9 | 0 22 | 16 59 | 2 12 | 0 42 | 0 45 | 17 12 | 0 9 | 20 53 | 2 17 | 23 9 | 23 4 | 22 28 | 4 54 | 2 54 |
| S 15 | 13 56 | 15 41 | 3 50 | 15 36 | 2 40 | 2 53 | 5 25 | 20 55 | 0 46 | 23 9 | 0 22 | 17 0 | 2 13 | 0 42 | 0 45 | 17 12 | 0 9 | 20 53 | 2 17 | 23 9 | 23 4 | 22 28 | 4 53 | 2 54 |
| S 16 | 13 37 | 19 22 | 2 54 | 15 53 | 2 23 | 3 7 | 5 37 | 21 2 | 0 45 | 23 10 | 0 22 | 17 0 | 2 13 | 0 41 | 0 45 | 17 13 | 0 9 | 20 53 | 2 17 | 23 9 | 23 4 | 22 28 | 4 52 | 2 54 |
| M17 | 13 18 | 21 55 | 1 48 | 16 7 | 2 5 | 3 20 | 5 49 | 21 9 | 0 44 | 23 10 | 0 22 | 17 0 | 2 13 | 0 40 | 0 46 | 17 13 | 0 9 | 20 53 | 2 17 | 23 9 | 23 3 | 22 29 | 4 51 | 2 54 |
| T 18 | 12 59 | 23 6 | 0 35 | 16 20 | 1 47 | 3 32 | 6 0 | 21 15 | 0 43 | 23 11 | 0 22 | 17 1 | 2 13 | 0 39 | 0 46 | 17 14 | 0 9 | 20 53 | 2 17 | 23 9 | 23 3 | 22 29 | 4 51 | 2 54 |
| W19 | 12 39 | 22 47 | 0n41 | 16 31 | 1 29 | 3 43 | 6 12 | 21 22 | 0 42 | 23 11 | 0 23 | 17 1 | 2 13 | 0 39 | 0 46 | 17 14 | 0 9 | 20 53 | 2 17 | 23 9 | 23 3 | 22 29 | 4 50 | 2 54 |
| T 20 | 12 19 | 21 1 | 1 54 | 16 39 | 1 12 | 3 53 | 6 24 | 21 28 | 0 41 | 23 12 | 0 23 | 17 1 | 2 14 | 0 38 | 0 46 | 17 15 | 0 9 | 20 52 | 2 16 | 23 8 | 23 3 | 22 30 | 4 49 | 2 54 |
| F 21 | 11 59 | 17 56 | 2 59 | 16 45 | 0 55 | 4 2 | 6 35 | 21 34 | 0 40 | 23 12 | 0 23 | 17 1 | 2 14 | 0 37 | 0 46 | 17 15 | 0 9 | 20 52 | 2 16 | 23 8 | 23 2 | 22 30 | 4 48 | 2 54 |
| S 22 | 11 39 | 13 51 | 3 53 | 16 48 | 0 38 | 4 9 | 6 46 | 21 40 | 0 39 | 23 12 | 0 23 | 17 2 | 2 14 | 0 37 | 0 46 | 17 15 | 0 9 | 20 52 | 2 16 | 23 8 | 23 2 | 22 30 | 4 48 | 2 54 |
| S 23 | 11 19 | 9 5 | 4 33 | 16 48 | 0 22 | 4 16 | 6 57 | 21 45 | 0 38 | 23 13 | 0 23 | 17 2 | 2 14 | 0 36 | 0 46 | 17 16 | 0 9 | 20 52 | 2 16 | 23 7 | 23 2 | 22 31 | 4 47 | 2 54 |
| M24 | 10 58 | 3 57 | 4 56 | 16 45 | 0 7 | 4 22 | 7 8 | 21 51 | 0 37 | 23 13 | 0 23 | 17 2 | 2 14 | 0 35 | 0 46 | 17 16 | 0 9 | 20 52 | 2 16 | 23 6 | 23 2 | 22 31 | 4 46 | 2 54 |
| T 25 | 10 37 | 1n15 | 5 2 | 16 39 | 0n 8 | 4 26 | 7 19 | 21 56 | 0 36 | 23 13 | 0 23 | 17 2 | 2 15 | 0 34 | 0 46 | 17 17 | 0 9 | 20 52 | 2 16 | 23 5 | 23 1 | 22 31 | 4 45 | 2 54 |
| W26 | 10 16 | 6 16 | 4 52 | 16 30 | 0 21 | 4 29 | 7 29 | 22 1 | 0 35 | 23 14 | 0 23 | 17 2 | 2 15 | 0 33 | 0 46 | 17 17 | 0 9 | 20 52 | 2 16 | 23 4 | 23 1 | 22 32 | 4 44 | 2 54 |
| T 27 | 9 55 | 10 53 | 4 28 | 16 18 | 0 34 | 4 31 | 7 38 | 22 6 | 0 34 | 23 14 | 0 23 | 17 2 | 2 15 | 0 33 | 0 46 | 17 18 | 0 9 | 20 52 | 2 16 | 23 4 | 23 1 | 22 32 | 4 43 | 2 54 |
| F 28 | 9 34 | 14 57 | 3 51 | 16 2 | 0 46 | 4 31 | 7 47 | 22 11 | 0 32 | 23 14 | 0 23 | 17 2 | 2 15 | 0 32 | 0 46 | 17 18 | 0 9 | 20 52 | 2 16 | 23 3 | 23 1 | 22 32 | 4 42 | 2 54 |
| S 29 | 9 13 | 18 18 | 3 5 | 15 44 | 0 56 | 4 30 | 7 56 | 22 16 | 0 31 | 23 15 | 0 23 | 17 3 | 2 15 | 0 31 | 0 46 | 17 18 | 0 9 | 20 52 | 2 16 | 23 3 | 23 0 | 22 32 | 4 41 | 2 54 |
| S 30 | 8 51 | 20 50 | 2 11 | 15 22 | 1 6 | 4 28 | 8 4 | 22 20 | 0 30 | 23 15 | 0 23 | 17 3 | 2 16 | 0 30 | 0 46 | 17 19 | 0 9 | 20 52 | 2 16 | 23 2 | 23 0 | 22 33 | 4 41 | 2 54 |
| M31 | 8n29 | 22n26 | 1n12 | 14n58 | 1n15 | 4s24 | 8s12 | 22n25 | 0s29 | 23s15 | 0s23 | 17n 3 | 2s16 | 0n29 | 0s46 | 17s19 | 0s 9 | 20n52 | 2s16 | 23s 2 | 23s 0 | 22n33 | 4n40 | 2n54 |

Julian Day Number = 2333419.5, Delta T = 25.66 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'33, Lahiri = 19°20'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## SEPTEMBER 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 43 45 | 9♍13'33 | 17♊18 | 24♌58 | 21°R40 | 18♊ 8 | 12°R48 | 25♉49 | 2°R57 | 12°R10 | 9♋39 | 19°R12 | 18♐37 | 7♊ 9 | 4°R58 | T 1 |
| W 2 | 22 47 41 | 10°11'47 | 29°10 | 26°44 | 21♍10 | 18°43 | 12♏46 | 25°49 | 2♈54 | 12♒ 8 | 9°40 | 19♐12 | 18°34 | 7°16 | 4♈56 | W 2 |
| T 3 | 22 51 38 | 11°10'04 | 11♋13 | 28°31 | 20°38 | 19°17 | 12°45 | 25°50 | 2°52 | 12° 7 | 9°40 | 19°10 | 18°31 | 7°22 | 4°53 | T 3 |
| F 4 | 22 55 34 | 12° 8'23 | 23°30 | 0♍21 | 20° 5 | 19°51 | 12°44 | 25°50 | 2°50 | 12° 5 | 9°41 | 19° 6 | 18°28 | 7°29 | 4°51 | F 4 |
| S 5 | 22 59 31 | 13° 6'44 | 6♌ 5 | 2°12 | 19°31 | 20°25 | 12°44 | 25°50 | 2°48 | 12° 4 | 9°42 | 19° 0 | 18°24 | 7°36 | 4°48 | S 5 |
| S 6 | 23 3 28 | 14° 5'06 | 19° 0 | 4° 5 | 18°55 | 20°58 | 12°43 | 25°51 | 2°46 | 12° 3 | 9°43 | 18°51 | 18°21 | 7°42 | 4°46 | S 6 |
| M 7 | 23 7 24 | 15° 3'31 | 2♍17 | 5°58 | 18°19 | 21°32 | 12°43 | 25°R51 | 2°43 | 12° 1 | 9°44 | 18°39 | 18°18 | 7°49 | 4°43 | M 7 |
| T 8 | 23 11 21 | 16° 1'57 | 15°54 | 7°51 | 17°43 | 22° 5 | 12°D43 | 25°51 | 2°41 | 12° 0 | 9°44 | 18°27 | 18°15 | 7°56 | 4°40 | T 8 |
| W 9 | 23 15 17 | 17° 0'26 | 29°48 | 9°45 | 17° 6 | 22°38 | 12°43 | 25°50 | 2°39 | 11°59 | 9°45 | 18°15 | 18°12 | 8° 2 | 4°38 | W 9 |
| T 10 | 23 19 14 | 17°58'56 | 13♎54 | 11°39 | 16°29 | 23°10 | 12°43 | 25°50 | 2°36 | 11°58 | 9°46 | 18° 4 | 18° 9 | 8° 9 | 4°35 | T 10 |
| F 11 | 23 23 10 | 18°57'28 | 28° 9 | 13°32 | 15°52 | 23°43 | 12°44 | 25°50 | 2°34 | 11°56 | 9°46 | 17°55 | 18° 5 | 8°16 | 4°32 | F 11 |
| S 12 | 23 27 7 | 19°56'02 | 12♏26 | 15°25 | 15°16 | 24°15 | 12°45 | 25°49 | 2°32 | 11°55 | 9°47 | 17°50 | 18° 2 | 8°22 | 4°30 | S 12 |
| S 13 | 23 31 3 | 20°54'37 | 26°41 | 17°18 | 14°40 | 24°47 | 12°45 | 25°49 | 2°29 | 11°54 | 9°48 | 17°47 | 17°59 | 8°29 | 4°27 | S 13 |
| M14 | 23 35 0 | 21°53'15 | 10♐53 | 19°10 | 14° 5 | 25°19 | 12°47 | 25°48 | 2°27 | 11°53 | 9°48 | 17°46 | 17°56 | 8°36 | 4°24 | M14 |
| T 15 | 23 38 56 | 22°51'53 | 25° 0 | 21° 1 | 13°31 | 25°50 | 12°48 | 25°47 | 2°25 | 11°52 | 9°49 | 17°46 | 17°53 | 8°42 | 4°22 | T 15 |
| W16 | 23 42 53 | 23°50'34 | 9♑ 0 | 22°52 | 12°59 | 26°21 | 12°49 | 25°46 | 2°22 | 11°51 | 9°49 | 17°45 | 17°50 | 8°49 | 4°19 | W16 |
| T 17 | 23 46 50 | 24°49'16 | 22°53 | 24°41 | 12°28 | 26°52 | 12°51 | 25°45 | 2°20 | 11°49 | 9°50 | 17°43 | 17°46 | 8°56 | 4°16 | T 17 |
| F 18 | 23 50 46 | 25°48'00 | 6♒40 | 26°30 | 11°58 | 27°23 | 12°53 | 25°44 | 2°17 | 11°48 | 9°51 | 17°38 | 17°43 | 9° 2 | 4°13 | F 18 |
| S 19 | 23 54 43 | 26°46'46 | 20°17 | 28°18 | 11°31 | 27°53 | 12°55 | 25°43 | 2°15 | 11°47 | 9°51 | 17°31 | 17°40 | 9° 9 | 4°11 | S 19 |
| S 20 | 23 58 39 | 27°45'33 | 3♓45 | 0♎ 5 | 11° 5 | 28°23 | 12°57 | 25°41 | 2°13 | 11°46 | 9°52 | 17°20 | 17°37 | 9°15 | 4° 8 | S 20 |
| M21 | 0 2 36 | 28°44'22 | 17° 1 | 1°51 | 10°42 | 28°53 | 12°59 | 25°40 | 2°10 | 11°45 | 9°52 | 17° 8 | 17°34 | 9°22 | 4° 5 | M21 |
| T 22 | 0 6 32 | 29°43'13 | 0♈ 3 | 3°36 | 10°20 | 29°23 | 13° 2 | 25°38 | 2° 8 | 11°44 | 9°52 | 16°56 | 17°30 | 9°29 | 4° 2 | T 22 |
| W23 | 0 10 29 | 0♎42'06 | 12°49 | 5°20 | 10° 1 | 29°52 | 13° 5 | 25°36 | 2° 5 | 11°43 | 9°53 | 16°43 | 17°27 | 9°35 | 3°59 | W23 |
| T 24 | 0 14 25 | 1°41'02 | 25°21 | 7° 3 | 9°44 | 0♋21 | 13° 8 | 25°35 | 2° 3 | 11°43 | 9°53 | 16°33 | 17°24 | 9°42 | 3°57 | T 24 |
| F 25 | 0 18 22 | 2°39'59 | 7♉37 | 8°45 | 9°30 | 0°50 | 13°11 | 25°33 | 2° 1 | 11°42 | 9°54 | 16°24 | 17°21 | 9°49 | 3°54 | F 25 |
| S 26 | 0 22 19 | 3°38'59 | 19°41 | 10°27 | 9°18 | 1°18 | 13°14 | 25°31 | 1°58 | 11°41 | 9°54 | 16°19 | 17°18 | 9°55 | 3°51 | S 26 |
| S 27 | 0 26 15 | 4°38'01 | 1♊35 | 12° 8 | 9° 9 | 1°46 | 13°18 | 25°29 | 1°56 | 11°40 | 9°54 | 16°16 | 17°15 | 10° 2 | 3°48 | S 27 |
| M28 | 0 30 12 | 5°37'05 | 13°23 | 13°47 | 9° 2 | 2°14 | 13°22 | 25°27 | 1°53 | 11°39 | 9°54 | 16°D14 | 17°11 | 10° 9 | 3°45 | M28 |
| T 29 | 0 34 8 | 6°36'12 | 25°10 | 15°26 | 8°57 | 2°42 | 13°25 | 25°24 | 1°51 | 11°38 | 9°55 | 16°15 | 17° 8 | 10°15 | 3°43 | T 29 |
| W30 | 0 38 5 | 7♎35'21 | 7♋ 2 | 17♎ 4 | 8°D55 | 3♋ 9 | 13♏29 | 25♉22 | 1♈49 | 11♒38 | 9♋55 | 16°R15 | 17♐ 5 | 10♊22 | 3♈40 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n 7 | 23n 2 | 0n10 | 14n31 | 1n22 | 4s19 | 8s19 | 22n29 | 0s28 | 23s15 | 0s23 | 17n 2 | 2s16 | 0n28 | 0s46 | 17s20 | 0s 9 | 20n52 | 2s16 | 23s 2 | 23s 0 | 22n33 | 4n39 | 2n54 |
| W 2 | 7 45 | 22 36 | 0s53 | 14 1 | 1 29 | 4 13 | 8 25 | 22 33 | 0 27 | 23 15 | 0 24 | 17 2 | 2 16 | 0 27 | 0 46 | 17 20 | 0 9 | 20 52 | 2 16 | 23 2 | 22 59 | 22 33 | 4 38 | 2 54 |
| T 3 | 7 23 | 21 7 | 1 54 | 13 29 | 1 34 | 4 6 | 8 30 | 22 37 | 0 26 | 23 16 | 0 24 | 17 2 | 2 16 | 0 27 | 0 46 | 17 21 | 0 9 | 20 52 | 2 16 | 23 2 | 22 59 | 22 34 | 4 37 | 2 54 |
| F 4 | 7 1 | 18 37 | 2 51 | 12 55 | 1 39 | 3 57 | 8 34 | 22 41 | 0 25 | 23 16 | 0 24 | 17 2 | 2 17 | 0 26 | 0 46 | 17 21 | 0 9 | 20 52 | 2 16 | 23 2 | 22 59 | 22 34 | 4 36 | 2 54 |
| S 5 | 6 39 | 15 13 | 3 41 | 12 18 | 1 43 | 3 47 | 8 38 | 22 45 | 0 23 | 23 16 | 0 24 | 17 2 | 2 17 | 0 25 | 0 46 | 17 21 | 0 9 | 20 52 | 2 16 | 23 1 | 22 58 | 22 34 | 4 35 | 2 54 |
| S 6 | 6 16 | 11 1 | 4 21 | 11 40 | 1 45 | 3 36 | 8 41 | 22 48 | 0 22 | 23 16 | 0 24 | 17 2 | 2 17 | 0 24 | 0 46 | 17 22 | 0 9 | 20 52 | 2 16 | 23 1 | 22 58 | 22 34 | 4 34 | 2 54 |
| M 7 | 5 54 | 6 11 | 4 48 | 11 0 | 1 47 | 3 24 | 8 43 | 22 52 | 0 21 | 23 16 | 0 24 | 17 2 | 2 17 | 0 23 | 0 46 | 17 22 | 0 9 | 20 52 | 2 16 | 23 0 | 22 58 | 22 35 | 4 33 | 2 54 |
| T 8 | 5 31 | 0 58 | 5 0 | 10 19 | 1 48 | 3 10 | 8 44 | 22 55 | 0 20 | 23 16 | 0 24 | 17 2 | 2 17 | 0 22 | 0 46 | 17 22 | 0 9 | 20 51 | 2 16 | 22 59 | 22 58 | 22 35 | 4 31 | 2 54 |
| W 9 | 5 8 | 4s25 | 4 54 | 9 36 | 1 49 | 2 56 | 8 44 | 22 58 | 0 19 | 23 16 | 0 24 | 17 1 | 2 18 | 0 21 | 0 46 | 17 23 | 0 9 | 20 51 | 2 16 | 22 58 | 22 57 | 22 35 | 4 30 | 2 54 |
| T 10 | 4 46 | 9 39 | 4 31 | 8 53 | 1 48 | 2 41 | 8 43 | 23 1 | 0 17 | 23 16 | 0 24 | 17 1 | 2 18 | 0 20 | 0 46 | 17 23 | 0 9 | 20 51 | 2 16 | 22 57 | 22 57 | 22 35 | 4 29 | 2 54 |
| F 11 | 4 23 | 14 25 | 3 50 | 8 8 | 1 47 | 2 25 | 8 41 | 23 4 | 0 16 | 23 16 | 0 24 | 17 1 | 2 18 | 0 19 | 0 46 | 17 23 | 0 9 | 20 51 | 2 16 | 22 56 | 22 57 | 22 35 | 4 28 | 2 54 |
| S 12 | 4 0 | 18 22 | 2 55 | 7 23 | 1 46 | 2 9 | 8 38 | 23 7 | 0 15 | 23 16 | 0 24 | 17 1 | 2 18 | 0 18 | 0 46 | 17 24 | 0 9 | 20 51 | 2 16 | 22 55 | 22 56 | 22 36 | 4 27 | 2 54 |
| S 13 | 3 37 | 21 13 | 1 49 | 6 37 | 1 44 | 1 52 | 8 34 | 23 9 | 0 13 | 23 16 | 0 24 | 17 0 | 2 18 | 0 17 | 0 46 | 17 24 | 0 9 | 20 51 | 2 16 | 22 55 | 22 56 | 22 36 | 4 26 | 2 54 |
| M14 | 3 13 | 22 43 | 0 36 | 5 50 | 1 41 | 1 34 | 8 30 | 23 12 | 0 12 | 23 16 | 0 24 | 17 0 | 2 18 | 0 16 | 0 46 | 17 24 | 0 9 | 20 51 | 2 16 | 22 55 | 22 56 | 22 36 | 4 25 | 2 54 |
| T 15 | 2 50 | 22 45 | 0n38 | 5 4 | 1 38 | 1 16 | 8 24 | 23 14 | 0 11 | 23 16 | 0 24 | 16 59 | 2 19 | 0 16 | 0 46 | 17 25 | 0 9 | 20 51 | 2 16 | 22 55 | 22 56 | 22 36 | 4 24 | 2 54 |
| W16 | 2 27 | 21 21 | 1 50 | 4 17 | 1 34 | 0 58 | 8 18 | 23 16 | 0 9 | 23 16 | 0 24 | 16 59 | 2 19 | 0 15 | 0 46 | 17 25 | 0 9 | 20 51 | 2 16 | 22 55 | 22 55 | 22 36 | 4 23 | 2 54 |
| T 17 | 2 4 | 18 40 | 2 54 | 3 29 | 1 30 | 0 40 | 8 11 | 23 19 | 0 8 | 23 16 | 0 24 | 16 59 | 2 19 | 0 14 | 0 46 | 17 25 | 0 9 | 20 51 | 2 16 | 22 55 | 22 55 | 22 37 | 4 22 | 2 54 |
| F 18 | 1 40 | 14 58 | 3 48 | 2 42 | 1 25 | 0 22 | 8 3 | 23 21 | 0 7 | 23 16 | 0 24 | 16 58 | 2 19 | 0 13 | 0 46 | 17 26 | 0 9 | 20 51 | 2 16 | 22 54 | 22 55 | 22 37 | 4 20 | 2 54 |
| S 19 | 1 17 | 10 30 | 4 28 | 1 55 | 1 21 | 0 4 | 7 54 | 23 23 | 0 5 | 23 15 | 0 24 | 16 58 | 2 19 | 0 12 | 0 46 | 17 26 | 0 9 | 20 51 | 2 16 | 22 54 | 22 54 | 22 37 | 4 19 | 2 54 |
| S 20 | 0 54 | 5 36 | 4 53 | 1 8 | 1 16 | 0n14 | 7 45 | 23 24 | 0 4 | 23 15 | 0 24 | 16 57 | 2 20 | 0 11 | 0 46 | 17 26 | 0 9 | 20 51 | 2 16 | 22 53 | 22 54 | 22 37 | 4 18 | 2 54 |
| M21 | 0 30 | 0 31 | 5 1 | 0 20 | 1 10 | 0 32 | 7 36 | 23 26 | 0 2 | 23 15 | 0 24 | 16 57 | 2 20 | 0 10 | 0 46 | 17 27 | 0 9 | 20 51 | 2 16 | 22 51 | 22 54 | 22 37 | 4 17 | 2 54 |
| T 22 | 0 7 | 4n30 | 4 53 | 0s27 | 1 5 | 0 50 | 7 26 | 23 28 | 0 1 | 23 15 | 0 25 | 16 56 | 2 20 | 0 9 | 0 46 | 17 27 | 0 10 | 20 51 | 2 16 | 22 50 | 22 54 | 22 37 | 4 16 | 2 54 |
| W23 | 0s17 | 9 14 | 4 31 | 1 13 | 0 59 | 1 6 | 7 15 | 23 29 | 0n 1 | 23 15 | 0 25 | 16 56 | 2 20 | 0 8 | 0 46 | 17 27 | 0 10 | 20 51 | 2 16 | 22 49 | 22 53 | 22 38 | 4 15 | 2 54 |
| T 24 | 0 40 | 13 28 | 3 56 | 2 0 | 0 53 | 1 23 | 7 4 | 23 31 | 0 2 | 23 14 | 0 25 | 16 55 | 2 20 | 0 7 | 0 46 | 17 27 | 0 10 | 20 51 | 2 16 | 22 48 | 22 53 | 22 38 | 4 13 | 2 54 |
| F 25 | 1 4 | 17 4 | 3 10 | 2 46 | 0 47 | 1 39 | 6 53 | 23 32 | 0 4 | 23 14 | 0 25 | 16 54 | 2 20 | 0 6 | 0 46 | 17 28 | 0 10 | 20 51 | 2 16 | 22 47 | 22 53 | 22 38 | 4 12 | 2 53 |
| S 26 | 1 27 | 19 52 | 2 16 | 3 32 | 0 40 | 1 54 | 6 41 | 23 34 | 0 5 | 23 14 | 0 25 | 16 54 | 2 21 | 0 5 | 0 46 | 17 28 | 0 10 | 20 51 | 2 16 | 22 47 | 22 52 | 22 38 | 4 11 | 2 53 |
| S 27 | 1 51 | 21 46 | 1 17 | 4 17 | 0 34 | 2 9 | 6 29 | 23 35 | 0 7 | 23 14 | 0 25 | 16 53 | 2 21 | 0 4 | 0 46 | 17 28 | 0 10 | 20 51 | 2 16 | 22 46 | 22 52 | 22 38 | 4 10 | 2 53 |
| M28 | 2 14 | 22 42 | 0 15 | 5 2 | 0 27 | 2 22 | 6 17 | 23 36 | 0 8 | 23 13 | 0 25 | 16 52 | 2 21 | 0 3 | 0 46 | 17 28 | 0 10 | 20 51 | 2 16 | 22 46 | 22 52 | 22 38 | 4 9 | 2 53 |
| T 29 | 2 38 | 22 36 | 0s47 | 5 46 | 0 20 | 2 35 | 6 5 | 23 37 | 0 10 | 23 13 | 0 25 | 16 52 | 2 21 | 0 2 | 0 46 | 17 29 | 0 10 | 20 51 | 2 16 | 22 46 | 22 51 | 22 38 | 4 8 | 2 53 |
| W30 | 3s 1 | 21n29 | 1s49 | 6s30 | 0n14 | 2n48 | 5s52 | 23n38 | 0n11 | 23s12 | 0s25 | 16n51 | 2s21 | 0n 1 | 0s46 | 17s29 | 0s10 | 20n51 | 2s16 | 22s46 | 22s51 | 22n38 | 4n 6 | 2n53 |

Julian Day Number = 2333450.5, Delta T = 25.61 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'37, Lahiri = 19°20'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## OCTOBER 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 42 1 | 8♎34'32 | 19♋ 4 | 18♎42 | 8♍56 | 3♋35 | 13♏34 | 25°R19 | 1°R46 | 11°R37 | 9♋55 | 16°R14 | 17♐ 2 | 10♊29 | 3°R37 | T 1 |
| F 2 | 0 45 58 | 9°33'46 | 1♌21 | 20°18 | 8°58 | 4° 2 | 13°38 | 25♉17 | 1♈44 | 11♒36 | 9°55 | 16♐12 | 16°59 | 10°35 | 3♈34 | F 2 |
| S 3 | 0 49 54 | 10°33'01 | 13°59 | 21°54 | 9° 3 | 4°28 | 13°43 | 25°14 | 1°41 | 11°36 | 9°56 | 16° 8 | 16°55 | 10°42 | 3°32 | S 3 |
| S 4 | 0 53 51 | 11°32'19 | 26°59 | 23°29 | 9°11 | 4°54 | 13°47 | 25°11 | 1°39 | 11°35 | 9°56 | 16° 1 | 16°52 | 10°48 | 3°29 | S 4 |
| M 5 | 0 57 48 | 12°31'40 | 10♍26 | 25° 3 | 9°20 | 5°19 | 13°52 | 25° 9 | 1°37 | 11°34 | 9°56 | 15°52 | 16°49 | 10°55 | 3°26 | M 5 |
| T 6 | 1 1 44 | 13°31'02 | 24°17 | 26°37 | 9°32 | 5°44 | 13°58 | 25° 6 | 1°34 | 11°34 | 9°56 | 15°41 | 16°46 | 11° 2 | 3°23 | T 6 |
| W 7 | 1 5 41 | 14°30'27 | 8♎30 | 28°10 | 9°46 | 6° 9 | 14° 3 | 25° 3 | 1°32 | 11°33 | 9°56 | 15°31 | 16°43 | 11° 8 | 3°20 | W 7 |
| T 8 | 1 9 37 | 15°29'54 | 23° 1 | 29°42 | 10° 2 | 6°33 | 14° 8 | 24°59 | 1°30 | 11°33 | 9°56 | 15°22 | 16°40 | 11°15 | 3°18 | T 8 |
| F 9 | 1 13 34 | 16°29'23 | 7♏41 | 1♏13 | 10°20 | 6°57 | 14°14 | 24°56 | 1°27 | 11°32 | 9°56 | 15°15 | 16°36 | 11°22 | 3°15 | F 9 |
| S 10 | 1 17 30 | 17°28'54 | 22°23 | 2°44 | 10°39 | 7°20 | 14°20 | 24°53 | 1°25 | 11°32 | 9°R56 | 15°10 | 16°33 | 11°28 | 3°12 | S 10 |
| S 11 | 1 21 27 | 18°28'26 | 7♐ 1 | 4°14 | 11° 1 | 7°43 | 14°26 | 24°50 | 1°23 | 11°31 | 9°56 | 15° 8 | 16°30 | 11°35 | 3°10 | S 11 |
| M12 | 1 25 23 | 19°28'01 | 21°30 | 5°43 | 11°24 | 8° 6 | 14°32 | 24°46 | 1°20 | 11°31 | 9°56 | 15°D 8 | 16°27 | 11°42 | 3° 7 | M12 |
| T 13 | 1 29 20 | 20°27'37 | 5♑46 | 7°12 | 11°50 | 8°28 | 14°38 | 24°43 | 1°18 | 11°31 | 9°56 | 15° 9 | 16°24 | 11°48 | 3° 4 | T 13 |
| W14 | 1 33 17 | 21°27'16 | 19°47 | 8°40 | 12°17 | 8°49 | 14°45 | 24°39 | 1°16 | 11°30 | 9°56 | 15°R10 | 16°21 | 11°55 | 3° 2 | W14 |
| T 15 | 1 37 13 | 22°26'55 | 3♒34 | 10° 7 | 12°45 | 9°10 | 14°51 | 24°35 | 1°14 | 11°30 | 9°56 | 15° 9 | 16°17 | 12° 2 | 2°59 | T 15 |
| F 16 | 1 41 10 | 23°26'37 | 17° 6 | 11°34 | 13°15 | 9°31 | 14°58 | 24°31 | 1°12 | 11°30 | 9°56 | 15° 7 | 16°14 | 12° 8 | 2°57 | F 16 |
| S 17 | 1 45 6 | 24°26'20 | 0♓25 | 13° 0 | 13°47 | 9°51 | 15° 5 | 24°28 | 1° 9 | 11°30 | 9°55 | 15° 2 | 16°11 | 12°15 | 2°54 | S 17 |
| S 18 | 1 49 3 | 25°26'05 | 13°31 | 14°25 | 14°20 | 10°11 | 15°12 | 24°24 | 1° 7 | 11°29 | 9°55 | 14°55 | 16° 8 | 12°22 | 2°51 | S 18 |
| M19 | 1 52 59 | 26°25'51 | 26°24 | 15°49 | 14°55 | 10°31 | 15°19 | 24°20 | 1° 5 | 11°29 | 9°55 | 14°47 | 16° 5 | 12°28 | 2°49 | M19 |
| T 20 | 1 56 56 | 27°25'40 | 9♈ 5 | 17°13 | 15°30 | 10°49 | 15°26 | 24°16 | 1° 3 | 11°29 | 9°55 | 14°38 | 16° 1 | 12°35 | 2°46 | T 20 |
| W21 | 2 0 52 | 28°25'30 | 21°34 | 18°35 | 16° 8 | 11° 8 | 15°34 | 24°12 | 1° 1 | 11°29 | 9°55 | 14°29 | 15°58 | 12°41 | 2°44 | W21 |
| T 22 | 2 4 49 | 29°25'22 | 3♉52 | 19°57 | 16°46 | 11°25 | 15°42 | 24° 7 | 0°59 | 11°29 | 9°54 | 14°22 | 15°55 | 12°48 | 2°42 | T 22 |
| F 23 | 2 8 45 | 0♏25'17 | 15°58 | 21°17 | 17°26 | 11°43 | 15°49 | 24° 3 | 0°57 | 11°D29 | 9°54 | 14°16 | 15°52 | 12°55 | 2°39 | F 23 |
| S 24 | 2 12 42 | 1°25'13 | 27°56 | 22°37 | 18° 7 | 11°59 | 15°57 | 23°59 | 0°55 | 11°29 | 9°54 | 14°12 | 15°49 | 13° 1 | 2°37 | S 24 |
| S 25 | 2 16 39 | 2°25'11 | 9♊46 | 23°55 | 18°49 | 12°16 | 16° 5 | 23°54 | 0°53 | 11°29 | 9°53 | 14°D11 | 15°46 | 13° 8 | 2°34 | S 25 |
| M26 | 2 20 35 | 3°25'12 | 21°33 | 25°12 | 19°32 | 12°31 | 16°14 | 23°50 | 0°51 | 11°29 | 9°53 | 14°11 | 15°42 | 13°15 | 2°32 | M26 |
| T 27 | 2 24 32 | 4°25'15 | 3♋20 | 26°28 | 20°16 | 12°46 | 16°22 | 23°46 | 0°49 | 11°29 | 9°53 | 14°12 | 15°39 | 13°21 | 2°30 | T 27 |
| W28 | 2 28 28 | 5°25'19 | 15°11 | 27°42 | 21° 2 | 13° 1 | 16°30 | 23°41 | 0°47 | 11°30 | 9°52 | 14°14 | 15°36 | 13°28 | 2°28 | W28 |
| T 29 | 2 32 25 | 6°25'26 | 27°11 | 28°55 | 21°48 | 13°14 | 16°39 | 23°37 | 0°45 | 11°30 | 9°52 | 14°15 | 15°33 | 13°35 | 2°25 | T 29 |
| F 30 | 2 36 21 | 7°25'35 | 9♌26 | 0♐ 6 | 22°35 | 13°28 | 16°48 | 23°32 | 0°44 | 11°30 | 9°51 | 14°R16 | 15°30 | 13°41 | 2°23 | F 30 |
| S 31 | 2 40 18 | 8♏25'46 | 22♌ 0 | 1♐14 | 23♍23 | 13♋40 | 16♑57 | 23♉27 | 0♈42 | 11♒30 | 9♋51 | 14♐15 | 15♐27 | 13♊48 | 2♈21 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s24 | 19n23 | 2s46 | 7s14 | 0n 7 | 2n59 | 5s40 | 23n39 | 0n13 | 23s12 | 0s25 | 16n50 | 2s21 | 0n 0 | 0s46 | 17s29 | 0s10 | 20n51 | 2s16 | 22s46 | 22s51 | 22n38 | 4n 5 | 2n53 |
| F 2 | 3 48 | 16 22 | 3 36 | 7 57 | 0s 0 | 3 10 | 5 27 | 23 40 | 0 15 | 23 12 | 0 25 | 16 50 | 2 22 | 0s 1 | 0 46 | 17 29 | 0 10 | 20 51 | 2 16 | 22 46 | 22 51 | 22 38 | 4 4 | 2 53 |
| S 3 | 4 11 | 12 32 | 4 18 | 8 39 | 0 7 | 3 20 | 5 15 | 23 41 | 0 16 | 23 11 | 0 25 | 16 49 | 2 22 | 0 2 | 0 46 | 17 29 | 0 10 | 20 51 | 2 16 | 22 45 | 22 50 | 22 39 | 4 3 | 2 53 |
| S 4 | 4 34 | 8 2 | 4 48 | 9 21 | 0 14 | 3 28 | 5 2 | 23 41 | 0 18 | 23 11 | 0 25 | 16 48 | 2 22 | 0 3 | 0 46 | 17 30 | 0 10 | 20 51 | 2 16 | 22 45 | 22 50 | 22 39 | 4 2 | 2 53 |
| M 5 | 4 57 | 3 0 | 5 3 | 10 2 | 0 21 | 3 37 | 4 50 | 23 42 | 0 20 | 23 10 | 0 25 | 16 47 | 2 22 | 0 4 | 0 46 | 17 30 | 0 10 | 20 51 | 2 16 | 22 44 | 22 50 | 22 39 | 4 0 | 2 53 |
| T 6 | 5 21 | 2s20 | 5 1 | 10 43 | 0 28 | 3 44 | 4 37 | 23 43 | 0 21 | 23 10 | 0 25 | 16 46 | 2 22 | 0 4 | 0 46 | 17 30 | 0 10 | 20 51 | 2 16 | 22 43 | 22 49 | 22 39 | 3 59 | 2 53 |
| W 7 | 5 44 | 7 40 | 4 40 | 11 23 | 0 35 | 3 50 | 4 25 | 23 43 | 0 23 | 23 9 | 0 25 | 16 46 | 2 22 | 0 5 | 0 46 | 17 30 | 0 10 | 20 51 | 2 16 | 22 42 | 22 49 | 22 39 | 3 58 | 2 52 |
| T 8 | 6 7 | 12 42 | 4 2 | 12 2 | 0 42 | 3 55 | 4 12 | 23 44 | 0 25 | 23 9 | 0 25 | 16 45 | 2 22 | 0 6 | 0 46 | 17 30 | 0 10 | 20 51 | 2 16 | 22 41 | 22 49 | 22 39 | 3 57 | 2 52 |
| F 9 | 6 30 | 17 2 | 3 7 | 12 41 | 0 49 | 4 0 | 4 0 | 23 45 | 0 27 | 23 8 | 0 25 | 16 44 | 2 22 | 0 7 | 0 46 | 17 30 | 0 10 | 20 51 | 2 16 | 22 40 | 22 48 | 22 39 | 3 56 | 2 52 |
| S 10 | 6 52 | 20 19 | 1 59 | 13 19 | 0 56 | 4 4 | 3 48 | 23 45 | 0 29 | 23 8 | 0 25 | 16 43 | 2 23 | 0 8 | 0 46 | 17 30 | 0 10 | 20 51 | 2 16 | 22 39 | 22 48 | 22 39 | 3 54 | 2 52 |
| S 11 | 7 15 | 22 14 | 0 43 | 13 56 | 1 3 | 4 7 | 3 36 | 23 46 | 0 30 | 23 7 | 0 25 | 16 42 | 2 23 | 0 9 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 39 | 22 48 | 22 39 | 3 53 | 2 52 |
| M12 | 7 38 | 22 38 | 0n34 | 14 33 | 1 9 | 4 9 | 3 25 | 23 46 | 0 32 | 23 6 | 0 25 | 16 41 | 2 23 | 0 10 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 39 | 22 47 | 22 39 | 3 52 | 2 52 |
| T 13 | 8 0 | 21 33 | 1 49 | 15 8 | 1 16 | 4 10 | 3 13 | 23 47 | 0 34 | 23 6 | 0 25 | 16 40 | 2 23 | 0 11 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 39 | 22 47 | 22 39 | 3 51 | 2 52 |
| W14 | 8 23 | 19 8 | 2 55 | 15 43 | 1 23 | 4 10 | 3 2 | 23 47 | 0 36 | 23 5 | 0 25 | 16 39 | 2 23 | 0 12 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 39 | 22 47 | 22 39 | 3 50 | 2 52 |
| T 15 | 8 45 | 15 39 | 3 50 | 16 17 | 1 29 | 4 10 | 2 50 | 23 48 | 0 38 | 23 4 | 0 25 | 16 38 | 2 23 | 0 13 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 39 | 22 46 | 22 39 | 3 49 | 2 51 |
| F 16 | 9 7 | 11 25 | 4 32 | 16 50 | 1 35 | 4 8 | 2 39 | 23 48 | 0 40 | 23 4 | 0 25 | 16 37 | 2 23 | 0 13 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 39 | 22 46 | 22 39 | 3 47 | 2 51 |
| S 17 | 9 29 | 6 42 | 4 58 | 17 23 | 1 42 | 4 6 | 2 28 | 23 49 | 0 42 | 23 3 | 0 25 | 16 36 | 2 23 | 0 14 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 38 | 22 46 | 22 39 | 3 46 | 2 51 |
| S 18 | 9 51 | 1 46 | 5 7 | 17 54 | 1 48 | 4 3 | 2 18 | 23 49 | 0 44 | 23 2 | 0 26 | 16 35 | 2 23 | 0 15 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 38 | 22 45 | 22 39 | 3 45 | 2 51 |
| M19 | 10 13 | 3n10 | 5 1 | 18 25 | 1 53 | 4 0 | 2 7 | 23 50 | 0 46 | 23 1 | 0 26 | 16 34 | 2 23 | 0 16 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 37 | 22 45 | 22 39 | 3 44 | 2 51 |
| T 20 | 10 35 | 7 54 | 4 40 | 18 54 | 1 59 | 3 55 | 1 57 | 23 50 | 0 48 | 23 1 | 0 26 | 16 33 | 2 24 | 0 17 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 36 | 22 45 | 22 39 | 3 43 | 2 51 |
| W21 | 10 56 | 12 13 | 4 6 | 19 23 | 2 4 | 3 50 | 1 47 | 23 51 | 0 50 | 23 0 | 0 26 | 16 32 | 2 24 | 0 18 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 35 | 22 44 | 22 39 | 3 42 | 2 51 |
| T 22 | 11 17 | 15 58 | 3 21 | 19 50 | 2 10 | 3 44 | 1 37 | 23 51 | 0 52 | 22 59 | 0 26 | 16 31 | 2 24 | 0 18 | 0 46 | 17 31 | 0 10 | 20 51 | 2 16 | 22 34 | 22 44 | 22 39 | 3 41 | 2 50 |
| F 23 | 11 38 | 18 59 | 2 27 | 20 17 | 2 15 | 3 38 | 1 27 | 23 52 | 0 54 | 22 58 | 0 26 | 16 30 | 2 24 | 0 19 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 33 | 22 44 | 22 39 | 3 40 | 2 50 |
| S 24 | 11 59 | 21 9 | 1 27 | 20 42 | 2 19 | 3 31 | 1 18 | 23 53 | 0 57 | 22 57 | 0 26 | 16 29 | 2 24 | 0 20 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 33 | 22 43 | 22 39 | 3 39 | 2 50 |
| S 25 | 12 20 | 22 21 | 0 24 | 21 6 | 2 24 | 3 23 | 1 9 | 23 53 | 0 59 | 22 56 | 0 26 | 16 28 | 2 24 | 0 21 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 32 | 22 43 | 22 39 | 3 37 | 2 50 |
| M26 | 12 41 | 22 33 | 0s40 | 21 29 | 2 28 | 3 14 | 1 0 | 23 54 | 1 1 | 22 55 | 0 26 | 16 26 | 2 24 | 0 21 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 32 | 22 43 | 22 39 | 3 36 | 2 50 |
| T 27 | 13 1 | 21 44 | 1 43 | 21 51 | 2 32 | 3 5 | 0 51 | 23 55 | 1 3 | 22 54 | 0 26 | 16 25 | 2 24 | 0 22 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 33 | 22 42 | 22 39 | 3 35 | 2 50 |
| W28 | 13 21 | 19 57 | 2 41 | 22 12 | 2 35 | 2 55 | 0 42 | 23 56 | 1 6 | 22 53 | 0 26 | 16 24 | 2 24 | 0 23 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 33 | 22 42 | 22 39 | 3 34 | 2 50 |
| T 29 | 13 41 | 17 16 | 3 33 | 22 31 | 2 38 | 2 45 | 0 34 | 23 57 | 1 8 | 22 52 | 0 26 | 16 23 | 2 24 | 0 24 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 33 | 22 42 | 22 39 | 3 33 | 2 49 |
| F 30 | 14 1 | 13 48 | 4 17 | 22 49 | 2 41 | 2 33 | 0 25 | 23 58 | 1 10 | 22 51 | 0 26 | 16 22 | 2 24 | 0 24 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 33 | 22 41 | 22 39 | 3 32 | 2 49 |
| S 31 | 14s20 | 9n38 | 4s50 | 23s 6 | 2s43 | 2n22 | 0s17 | 23n59 | 1n13 | 22s50 | 0s26 | 16n21 | 2s24 | 0s25 | 0s45 | 17s31 | 0s10 | 20n51 | 2s16 | 22s33 | 22s41 | 22n39 | 3n31 | 2n49 |

Julian Day Number = 2333480.5, Delta T = 25.56 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'41, Lahiri = 19°20'42Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## NOVEMBER 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 44 14 | 9♏25'59 | 4♍57 | 2♐21 | 24♍12 | 13♋52 | 17♑ 6 | 23°R23 | 0°R40 | 11♒31 | 9°R50 | 14°R12 | 15♐23 | 13♊55 | 2°R19 | S 1 |
| M 2 | 2 48 11 | 10°26'14 | 18°21 | 3°25 | 25° 2 | 14° 3 | 17°15 | 23♉18 | 0♈38 | 11°31 | 9♋50 | 14♐ 8 | 15°20 | 14° 1 | 2♈17 | M 2 |
| T 3 | 2 52 8 | 11°26'31 | 2♎14 | 4°26 | 25°53 | 14°14 | 17°24 | 23°13 | 0°37 | 11°31 | 9°49 | 14° 3 | 15°17 | 14° 8 | 2°15 | T 3 |
| W 4 | 2 56 4 | 12°26'50 | 16°33 | 5°23 | 26°44 | 14°24 | 17°34 | 23° 9 | 0°35 | 11°32 | 9°49 | 13°58 | 15°14 | 14°14 | 2°13 | W 4 |
| T 5 | 3 0 1 | 13°27'11 | 1♏14 | 6°18 | 27°36 | 14°33 | 17°43 | 23° 4 | 0°33 | 11°32 | 9°48 | 13°54 | 15°11 | 14°21 | 2°11 | T 5 |
| F 6 | 3 3 57 | 14°27'34 | 16°11 | 7° 8 | 28°29 | 14°42 | 17°53 | 22°59 | 0°32 | 11°32 | 9°47 | 13°50 | 15° 7 | 14°28 | 2° 9 | F 6 |
| S 7 | 3 7 54 | 15°27'59 | 1♐15 | 7°53 | 29°23 | 14°49 | 18° 3 | 22°54 | 0°30 | 11°33 | 9°47 | 13°48 | 15° 4 | 14°34 | 2° 7 | S 7 |
| S 8 | 3 11 50 | 16°28'25 | 16°17 | 8°34 | 0♎17 | 14°57 | 18°13 | 22°49 | 0°29 | 11°34 | 9°46 | 13°D48 | 15° 1 | 14°41 | 2° 5 | S 8 |
| M 9 | 3 15 47 | 17°28'53 | 1♑ 8 | 9° 8 | 1°12 | 15° 3 | 18°23 | 22°44 | 0°27 | 11°34 | 9°45 | 13°49 | 14°58 | 14°48 | 2° 4 | M 9 |
| T 10 | 3 19 43 | 18°29'22 | 15°43 | 9°36 | 2° 7 | 15° 8 | 18°33 | 22°39 | 0°26 | 11°35 | 9°45 | 13°50 | 14°55 | 14°54 | 2° 2 | T 10 |
| W11 | 3 23 40 | 19°29'52 | 29°57 | 9°58 | 3° 3 | 15°13 | 18°43 | 22°35 | 0°25 | 11°35 | 9°44 | 13°52 | 14°52 | 15° 1 | 2° 0 | W11 |
| T 12 | 3 27 37 | 20°30'24 | 13♒50 | 10°11 | 4° 0 | 15°17 | 18°53 | 22°30 | 0°23 | 11°36 | 9°43 | 13°52 | 14°48 | 15° 8 | 1°59 | T 12 |
| F 13 | 3 31 33 | 21°30'57 | 27°21 | 10°R15 | 4°57 | 15°20 | 19° 4 | 22°25 | 0°22 | 11°37 | 9°42 | 13°R53 | 14°45 | 15°14 | 1°57 | F 13 |
| S 14 | 3 35 30 | 22°31'31 | 10♓32 | 10°11 | 5°55 | 15°23 | 19°14 | 22°20 | 0°21 | 11°37 | 9°42 | 13°51 | 14°42 | 15°21 | 1°55 | S 14 |
| S 15 | 3 39 26 | 23°32'06 | 23°25 | 9°56 | 6°53 | 15°25 | 19°25 | 22°15 | 0°20 | 11°38 | 9°41 | 13°49 | 14°39 | 15°28 | 1°54 | S 15 |
| M16 | 3 43 23 | 24°32'43 | 6♈ 2 | 9°31 | 7°52 | 15°25 | 19°36 | 22°10 | 0°19 | 11°39 | 9°40 | 13°47 | 14°36 | 15°34 | 1°52 | M16 |
| T 17 | 3 47 19 | 25°33'21 | 18°26 | 8°55 | 8°51 | 15°R25 | 19°47 | 22° 5 | 0°18 | 11°40 | 9°39 | 13°44 | 14°32 | 15°41 | 1°51 | T 17 |
| W18 | 3 51 16 | 26°34'00 | 0♉39 | 8° 9 | 9°51 | 15°25 | 19°58 | 22° 0 | 0°16 | 11°41 | 9°38 | 13°41 | 14°29 | 15°47 | 1°50 | W18 |
| T 19 | 3 55 12 | 27°34'40 | 12°43 | 7°12 | 10°51 | 15°23 | 20° 9 | 21°55 | 0°16 | 11°42 | 9°38 | 13°38 | 14°26 | 15°54 | 1°48 | T 19 |
| F 20 | 3 59 9 | 28°35'22 | 24°40 | 6° 7 | 11°52 | 15°21 | 20°20 | 21°50 | 0°15 | 11°43 | 9°37 | 13°37 | 14°23 | 16° 1 | 1°47 | F 20 |
| S 21 | 4 3 6 | 29°36'05 | 6♊31 | 4°54 | 12°53 | 15°17 | 20°31 | 21°46 | 0°14 | 11°44 | 9°36 | 13°36 | 14°20 | 16° 7 | 1°46 | S 21 |
| S 22 | 4 7 2 | 0♐36'49 | 18°19 | 3°35 | 13°54 | 15°13 | 20°42 | 21°41 | 0°13 | 11°44 | 9°35 | 13°D36 | 14°17 | 16°14 | 1°45 | S 22 |
| M23 | 4 10 59 | 1°37'35 | 0♋ 6 | 2°13 | 14°56 | 15° 8 | 20°54 | 21°36 | 0°12 | 11°46 | 9°34 | 13°36 | 14°13 | 16°21 | 1°44 | M23 |
| T 24 | 4 14 55 | 2°38'22 | 11°55 | 0°51 | 15°59 | 15° 2 | 21° 5 | 21°31 | 0°11 | 11°47 | 9°33 | 13°37 | 14°10 | 16°27 | 1°43 | T 24 |
| W25 | 4 18 52 | 3°39'11 | 23°48 | 29♏31 | 17° 1 | 14°56 | 21°17 | 21°26 | 0°11 | 11°48 | 9°32 | 13°38 | 14° 7 | 16°34 | 1°42 | W25 |
| T 26 | 4 22 48 | 4°40'01 | 5♌50 | 28°16 | 18° 4 | 14°48 | 21°29 | 21°22 | 0°10 | 11°49 | 9°31 | 13°39 | 14° 4 | 16°41 | 1°41 | T 26 |
| F 27 | 4 26 45 | 5°40'52 | 18° 4 | 27° 8 | 19° 8 | 14°40 | 21°41 | 21°17 | 0° 9 | 11°50 | 9°30 | 13°40 | 14° 1 | 16°47 | 1°40 | F 27 |
| S 28 | 4 30 41 | 6°41'45 | 0♍35 | 26° 9 | 20°12 | 14°30 | 21°52 | 21°12 | 0° 9 | 11°51 | 9°29 | 13°41 | 13°58 | 16°54 | 1°39 | S 28 |
| S 29 | 4 34 38 | 7°42'39 | 13°27 | 25°21 | 21°16 | 14°20 | 22° 4 | 21° 8 | 0° 8 | 11°52 | 9°28 | 13°R41 | 13°54 | 17° 1 | 1°38 | S 29 |
| M30 | 4 38 35 | 8♐43'35 | 26♍42 | 24♏44 | 22♎20 | 14♋ 9 | 22♑17 | 21♉ 3 | 0♈ 8 | 11♒54 | 9♋27 | 13♐40 | 13♐51 | 17♊ 7 | 1♈38 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s40 | 4n55 | 5s 9 | 23s21 | 2s44 | 2n10 | 0s10 | 24n 0 | 1n15 | 22s49 | 0s26 | 16n19 | 2s24 | 0s26 | 0s45 | 17s31 | 0s10 | 20n51 | 2s16 | 22s33 | 22s41 | 22n38 | 3n30 | 2n49 |
| M 2 | 14 59 | 0s10 | 5 12 | 23 35 | 2 45 | 1 57 | 0 2 | 24 1 | 1 17 | 22 48 | 0 26 | 16 18 | 2 24 | 0 26 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 32 | 22 40 | 22 38 | 3 29 | 2 49 |
| T 3 | 15 17 | 5 26 | 4 57 | 23 47 | 2 46 | 1 44 | 0n 5 | 24 3 | 1 20 | 22 47 | 0 26 | 16 17 | 2 24 | 0 27 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 32 | 22 40 | 22 38 | 3 28 | 2 48 |
| W 4 | 15 36 | 10 34 | 4 24 | 23 57 | 2 45 | 1 30 | 0 13 | 24 4 | 1 22 | 22 45 | 0 26 | 16 16 | 2 24 | 0 27 | 0 45 | 17 31 | 0 10 | 20 51 | 2 16 | 22 31 | 22 40 | 22 38 | 3 27 | 2 48 |
| T 5 | 15 54 | 15 15 | 3 33 | 24 6 | 2 44 | 1 15 | 0 20 | 24 5 | 1 25 | 22 44 | 0 26 | 16 15 | 2 24 | 0 28 | 0 45 | 17 31 | 0 10 | 20 52 | 2 16 | 22 30 | 22 39 | 22 38 | 3 26 | 2 48 |
| F 6 | 16 12 | 19 2 | 2 26 | 24 13 | 2 43 | 1 1 | 0 27 | 24 7 | 1 27 | 22 43 | 0 26 | 16 14 | 2 24 | 0 29 | 0 45 | 17 30 | 0 10 | 20 52 | 2 16 | 22 30 | 22 39 | 22 38 | 3 25 | 2 48 |
| S 7 | 16 30 | 21 34 | 1 9 | 24 17 | 2 40 | 0 45 | 0 33 | 24 9 | 1 30 | 22 42 | 0 26 | 16 12 | 2 24 | 0 29 | 0 45 | 17 30 | 0 10 | 20 52 | 2 16 | 22 30 | 22 39 | 22 38 | 3 25 | 2 48 |
| S 8 | 16 47 | 22 33 | 0n14 | 24 20 | 2 36 | 0 30 | 0 40 | 24 11 | 1 33 | 22 40 | 0 26 | 16 11 | 2 24 | 0 30 | 0 45 | 17 30 | 0 10 | 20 52 | 2 16 | 22 30 | 22 38 | 22 38 | 3 24 | 2 48 |
| M 9 | 17 5 | 21 55 | 1 34 | 24 21 | 2 31 | 0 14 | 0 46 | 24 12 | 1 35 | 22 39 | 0 26 | 16 10 | 2 24 | 0 30 | 0 45 | 17 30 | 0 10 | 20 52 | 2 16 | 22 30 | 22 38 | 22 38 | 3 23 | 2 47 |
| T 10 | 17 22 | 19 47 | 2 47 | 24 20 | 2 25 | 0s 3 | 0 52 | 24 14 | 1 38 | 22 38 | 0 26 | 16 9 | 2 24 | 0 31 | 0 45 | 17 30 | 0 10 | 20 52 | 2 16 | 22 30 | 22 38 | 22 38 | 3 22 | 2 47 |
| W11 | 17 38 | 16 29 | 3 48 | 24 16 | 2 18 | 0 20 | 0 58 | 24 17 | 1 41 | 22 36 | 0 26 | 16 8 | 2 24 | 0 31 | 0 45 | 17 30 | 0 10 | 20 52 | 2 16 | 22 30 | 22 37 | 22 37 | 3 21 | 2 47 |
| T 12 | 17 54 | 12 20 | 4 33 | 24 9 | 2 10 | 0 37 | 1 4 | 24 19 | 1 43 | 22 35 | 0 26 | 16 6 | 2 24 | 0 32 | 0 45 | 17 30 | 0 10 | 20 52 | 2 16 | 22 30 | 22 37 | 22 37 | 3 20 | 2 47 |
| F 13 | 18 10 | 7 40 | 5 3 | 24 0 | 2 0 | 0 55 | 1 9 | 24 21 | 1 46 | 22 34 | 0 26 | 16 5 | 2 24 | 0 32 | 0 45 | 17 29 | 0 10 | 20 52 | 2 16 | 22 30 | 22 36 | 22 37 | 3 19 | 2 47 |
| S 14 | 18 26 | 2 46 | 5 15 | 23 48 | 1 48 | 1 13 | 1 15 | 24 24 | 1 49 | 22 32 | 0 26 | 16 4 | 2 24 | 0 33 | 0 45 | 17 29 | 0 10 | 20 52 | 2 16 | 22 30 | 22 36 | 22 37 | 3 19 | 2 46 |
| S 15 | 18 41 | 2n 9 | 5 11 | 23 33 | 1 35 | 1 31 | 1 20 | 24 26 | 1 52 | 22 31 | 0 27 | 16 3 | 2 24 | 0 33 | 0 45 | 17 29 | 0 10 | 20 52 | 2 16 | 22 30 | 22 36 | 22 37 | 3 18 | 2 46 |
| M16 | 18 56 | 6 52 | 4 52 | 23 15 | 1 21 | 1 50 | 1 25 | 24 29 | 1 54 | 22 29 | 0 27 | 16 2 | 2 24 | 0 34 | 0 45 | 17 29 | 0 10 | 20 52 | 2 16 | 22 30 | 22 35 | 22 37 | 3 17 | 2 46 |
| T 17 | 19 11 | 11 14 | 4 20 | 22 53 | 1 5 | 2 9 | 1 29 | 24 32 | 1 57 | 22 28 | 0 27 | 16 0 | 2 24 | 0 34 | 0 45 | 17 28 | 0 10 | 20 52 | 2 16 | 22 29 | 22 35 | 22 36 | 3 16 | 2 46 |
| W18 | 19 25 | 15 5 | 3 36 | 22 29 | 0 47 | 2 28 | 1 34 | 24 34 | 2 0 | 22 26 | 0 27 | 15 59 | 2 23 | 0 34 | 0 45 | 17 28 | 0 10 | 20 52 | 2 16 | 22 29 | 22 35 | 22 36 | 3 16 | 2 46 |
| T 19 | 19 39 | 18 16 | 2 43 | 22 1 | 0 28 | 2 48 | 1 38 | 24 38 | 2 3 | 22 24 | 0 27 | 15 58 | 2 23 | 0 35 | 0 45 | 17 28 | 0 10 | 20 53 | 2 16 | 22 29 | 22 34 | 22 36 | 3 15 | 2 45 |
| F 20 | 19 53 | 20 38 | 1 43 | 21 31 | 0 9 | 3 7 | 1 43 | 24 41 | 2 6 | 22 23 | 0 27 | 15 57 | 2 23 | 0 35 | 0 45 | 17 28 | 0 10 | 20 53 | 2 16 | 22 28 | 22 34 | 22 36 | 3 14 | 2 45 |
| S 21 | 20 6 | 22 5 | 0 39 | 20 58 | 0n12 | 3 27 | 1 47 | 24 44 | 2 9 | 22 21 | 0 27 | 15 56 | 2 23 | 0 35 | 0 45 | 17 27 | 0 10 | 20 53 | 2 16 | 22 28 | 22 34 | 22 36 | 3 14 | 2 45 |
| S 22 | 20 19 | 22 32 | 0s26 | 20 23 | 0 32 | 3 48 | 1 51 | 24 47 | 2 11 | 22 19 | 0 27 | 15 55 | 2 23 | 0 36 | 0 45 | 17 27 | 0 10 | 20 53 | 2 16 | 22 28 | 22 33 | 22 36 | 3 13 | 2 45 |
| M23 | 20 31 | 21 58 | 1 30 | 19 47 | 0 52 | 4 8 | 1 54 | 24 51 | 2 14 | 22 18 | 0 27 | 15 54 | 2 23 | 0 36 | 0 45 | 17 27 | 0 10 | 20 53 | 2 16 | 22 28 | 22 33 | 22 35 | 3 12 | 2 45 |
| T 24 | 20 43 | 20 26 | 2 31 | 19 11 | 1 12 | 4 29 | 1 58 | 24 54 | 2 17 | 22 16 | 0 27 | 15 52 | 2 23 | 0 36 | 0 44 | 17 27 | 0 10 | 20 53 | 2 16 | 22 28 | 22 32 | 22 35 | 3 12 | 2 44 |
| W25 | 20 55 | 18 0 | 3 25 | 18 37 | 1 30 | 4 50 | 2 1 | 24 58 | 2 20 | 22 14 | 0 27 | 15 51 | 2 23 | 0 37 | 0 44 | 17 26 | 0 10 | 20 53 | 2 16 | 22 29 | 22 32 | 22 35 | 3 11 | 2 44 |
| T 26 | 21 6 | 14 47 | 4 12 | 18 4 | 1 47 | 5 11 | 2 5 | 25 2 | 2 23 | 22 12 | 0 27 | 15 50 | 2 23 | 0 37 | 0 44 | 17 26 | 0 10 | 20 53 | 2 16 | 22 29 | 22 32 | 22 35 | 3 11 | 2 44 |
| F 27 | 21 17 | 10 53 | 4 47 | 17 35 | 2 1 | 5 32 | 2 8 | 25 6 | 2 26 | 22 11 | 0 27 | 15 49 | 2 22 | 0 37 | 0 44 | 17 26 | 0 10 | 20 53 | 2 15 | 22 29 | 22 31 | 22 34 | 3 10 | 2 44 |
| S 28 | 21 28 | 6 27 | 5 10 | 17 10 | 2 14 | 5 53 | 2 11 | 25 9 | 2 29 | 22 9 | 0 27 | 15 48 | 2 22 | 0 37 | 0 44 | 17 25 | 0 10 | 20 53 | 2 15 | 22 29 | 22 31 | 22 34 | 3 9 | 2 44 |
| S 29 | 21 38 | 1 37 | 5 18 | 16 48 | 2 24 | 6 15 | 2 13 | 25 13 | 2 32 | 22 7 | 0 27 | 15 47 | 2 22 | 0 37 | 0 44 | 17 25 | 0 10 | 20 53 | 2 15 | 22 29 | 22 31 | 22 34 | 3 9 | 2 43 |
| M30 | 21s48 | 3s26 | 5s10 | 16s32 | 2n32 | 6s36 | 2n16 | 25n18 | 2n35 | 22s 5 | 0s27 | 15n46 | 2s22 | 0s38 | 0s44 | 17s25 | 0s10 | 20n54 | 2s15 | 22s29 | 22s30 | 22n34 | 3n 8 | 2n43 |

Julian Day Number = 2333511.5, Delta T = 25.51 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'46, Lahiri = 19°20'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1676
# geocentric

## DECEMBER 1676 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 42 31 | 9♐44'31 | 10♎24 | 24°R19 | 23♎25 | 13°R57 | 22♑29 | 20°R59 | 0°R 7 | 11♒55 | 9°R26 | 13°R40 | 13♐48 | 17♊14 | 1°R37 | T 1 |
| W 2 | 4 46 28 | 10°45'29 | 24°34 | 24♏ 5 | 24°30 | 13♋45 | 22°41 | 20♉54 | 0♈ 7 | 11°56 | 9♋25 | 13♐40 | 13°45 | 17°21 | 1♈36 | W 2 |
| T 3 | 4 50 24 | 11°46'29 | 9♏ 9 | 24°D 2 | 25°35 | 13°31 | 22°53 | 20°50 | 0° 7 | 11°57 | 9°24 | 13°39 | 13°42 | 17°27 | 1°36 | T 3 |
| F 4 | 4 54 21 | 12°47'29 | 24° 5 | 24° 9 | 26°41 | 13°17 | 23° 6 | 20°45 | 0° 6 | 11°59 | 9°23 | 13°39 | 13°38 | 17°34 | 1°35 | F 4 |
| S 5 | 4 58 17 | 13°48'31 | 9♐15 | 24°25 | 27°47 | 13° 2 | 23°18 | 20°41 | 0° 6 | 12° 0 | 9°22 | 13°39 | 13°35 | 17°40 | 1°35 | S 5 |
| S 6 | 5 2 14 | 14°49'33 | 24°29 | 24°50 | 28°53 | 12°46 | 23°31 | 20°37 | 0° 6 | 12° 2 | 9°20 | 13°39 | 13°32 | 17°47 | 1°35 | S 6 |
| M 7 | 5 6 11 | 15°50'37 | 9♑38 | 25°23 | 29°59 | 12°29 | 23°43 | 20°33 | 0° 6 | 12° 3 | 9°19 | 13°39 | 13°29 | 17°54 | 1°34 | M 7 |
| T 8 | 5 10 7 | 16°51'41 | 24°32 | 26° 2 | 1♏ 6 | 12°12 | 23°56 | 20°28 | 0° 6 | 12° 5 | 9°18 | 13°39 | 13°26 | 18° 0 | 1°34 | T 8 |
| W 9 | 5 14 4 | 17°52'45 | 9♒ 5 | 26°48 | 2°13 | 11°54 | 24° 9 | 20°24 | 0°D 6 | 12° 6 | 9°17 | 13°38 | 13°23 | 18° 7 | 1°34 | W 9 |
| T 10 | 5 18 0 | 18°53'50 | 23°12 | 27°40 | 3°20 | 11°35 | 24°21 | 20°20 | 0° 6 | 12° 8 | 9°16 | 13°38 | 13°19 | 18°14 | 1°34 | T 10 |
| F 11 | 5 21 57 | 19°54'55 | 6♓52 | 28°36 | 4°27 | 11°16 | 24°34 | 20°16 | 0° 6 | 12° 9 | 9°15 | 13°37 | 13°16 | 18°20 | 1°34 | F 11 |
| S 12 | 5 25 53 | 20°56'01 | 20° 6 | 29°36 | 5°34 | 10°56 | 24°47 | 20°13 | 0° 6 | 12°11 | 9°14 | 13°D37 | 13°13 | 18°27 | 1°D34 | S 12 |
| S 13 | 5 29 50 | 21°57'06 | 2♈56 | 0♐40 | 6°42 | 10°36 | 25° 0 | 20° 9 | 0° 6 | 12°12 | 9°12 | 13°37 | 13°10 | 18°34 | 1°34 | S 13 |
| M14 | 5 33 46 | 22°58'13 | 15°27 | 1°47 | 7°50 | 10°15 | 25°13 | 20° 5 | 0° 7 | 12°14 | 9°11 | 13°38 | 13° 7 | 18°40 | 1°34 | M14 |
| T 15 | 5 37 43 | 23°59'19 | 27°41 | 2°57 | 8°58 | 9°53 | 25°26 | 20° 1 | 0° 7 | 12°16 | 9°10 | 13°39 | 13° 4 | 18°47 | 1°34 | T 15 |
| W16 | 5 41 40 | 25° 0'26 | 9♉44 | 4° 9 | 10° 6 | 9°31 | 25°39 | 19°58 | 0° 7 | 12°17 | 9° 9 | 13°40 | 13° 0 | 18°54 | 1°34 | W16 |
| T 17 | 5 45 36 | 26° 1'33 | 21°39 | 5°24 | 11°15 | 9° 9 | 25°53 | 19°54 | 0° 8 | 12°19 | 9° 8 | 13°41 | 12°57 | 19° 0 | 1°34 | T 17 |
| F 18 | 5 49 33 | 27° 2'40 | 3♊28 | 6°40 | 12°23 | 8°46 | 26° 6 | 19°51 | 0° 8 | 12°21 | 9° 6 | 13°42 | 12°54 | 19° 7 | 1°35 | F 18 |
| S 19 | 5 53 29 | 28° 3'48 | 15°16 | 7°59 | 13°32 | 8°23 | 26°19 | 19°48 | 0° 9 | 12°22 | 9° 5 | 13°R42 | 12°51 | 19°13 | 1°35 | S 19 |
| S 20 | 5 57 26 | 29° 4'56 | 27° 4 | 9°18 | 14°41 | 8° 0 | 26°33 | 19°44 | 0° 9 | 12°24 | 9° 4 | 13°42 | 12°48 | 19°20 | 1°36 | S 20 |
| M21 | 6 1 22 | 0♑ 6'04 | 8♋54 | 10°39 | 15°50 | 7°37 | 26°46 | 19°41 | 0°10 | 12°26 | 9° 3 | 13°40 | 12°44 | 19°27 | 1°36 | M21 |
| T 22 | 6 5 19 | 1° 7'13 | 20°49 | 12° 1 | 16°59 | 7°13 | 26°59 | 19°38 | 0°11 | 12°28 | 9° 1 | 13°38 | 12°41 | 19°33 | 1°37 | T 22 |
| W23 | 6 9 15 | 2° 8'22 | 2♌51 | 13°25 | 18° 9 | 6°49 | 27°13 | 19°35 | 0°11 | 12°30 | 9° 0 | 13°35 | 12°38 | 19°40 | 1°37 | W23 |
| T 24 | 6 13 12 | 3° 9'31 | 15° 1 | 14°49 | 19°19 | 6°25 | 27°26 | 19°32 | 0°12 | 12°31 | 8°59 | 13°32 | 12°35 | 19°47 | 1°38 | T 24 |
| F 25 | 6 17 9 | 4°10'41 | 27°22 | 16°14 | 20°28 | 6° 1 | 27°40 | 19°30 | 0°13 | 12°33 | 8°58 | 13°29 | 12°32 | 19°53 | 1°39 | F 25 |
| S 26 | 6 21 5 | 5°11'50 | 9♍56 | 17°40 | 21°38 | 5°38 | 27°54 | 19°27 | 0°14 | 12°35 | 8°56 | 13°26 | 12°29 | 20° 0 | 1°39 | S 26 |
| S 27 | 6 25 2 | 6°13'01 | 22°47 | 19° 6 | 22°48 | 5°14 | 28° 7 | 19°24 | 0°15 | 12°37 | 8°55 | 13°24 | 12°25 | 20° 7 | 1°40 | S 27 |
| M28 | 6 28 58 | 7°14'11 | 5♎56 | 20°33 | 23°58 | 4°50 | 28°21 | 19°22 | 0°16 | 12°39 | 8°54 | 13°D24 | 12°22 | 20°13 | 1°41 | M28 |
| T 29 | 6 32 55 | 8°15'22 | 19°27 | 22° 1 | 25° 9 | 4°26 | 28°35 | 19°19 | 0°17 | 12°41 | 8°53 | 13°24 | 12°19 | 20°20 | 1°42 | T 29 |
| W30 | 6 36 51 | 9°16'33 | 3♏21 | 23°29 | 26°19 | 4° 3 | 28°49 | 19°17 | 0°18 | 12°43 | 8°51 | 13°25 | 12°16 | 20°27 | 1°43 | W30 |
| T 31 | 6 40 48 | 10♑17'45 | 17♏39 | 24♐58 | 27♏30 | 3♋40 | 29♑ 2 | 19♉15 | 0♈19 | 12♒45 | 8♋50 | 13♐27 | 12♐13 | 20♊33 | 1♈44 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s57 | 8s29 | 4s44 | 16s20 | 2n38 | 6s58 | 2n18 | 25n22 | 2n38 | 22s 3 | 0s27 | 15n45 | 2s22 | 0s38 | 0s44 | 17s24 | 0s10 | 20n54 | 2s15 | 22s29 | 22s30 | 22n34 | 3n 8 | 2n43 |
| W 2 | 22 6 | 13 16 | 4 1 | 16 13 | 2 42 | 7 20 | 2 21 | 25 26 | 2 41 | 22 1 | 0 27 | 15 44 | 2 22 | 0 38 | 0 44 | 17 24 | 0 10 | 20 54 | 2 15 | 22 29 | 22 29 | 22 33 | 3 8 | 2 43 |
| T 3 | 22 14 | 17 25 | 3 1 | 16 10 | 2 44 | 7 41 | 2 23 | 25 30 | 2 43 | 21 59 | 0 27 | 15 43 | 2 22 | 0 38 | 0 44 | 17 24 | 0 10 | 20 54 | 2 15 | 22 29 | 22 29 | 22 33 | 3 7 | 2 42 |
| F 4 | 22 22 | 20 33 | 1 47 | 16 11 | 2 44 | 8 3 | 2 25 | 25 34 | 2 46 | 21 57 | 0 27 | 15 42 | 2 21 | 0 38 | 0 44 | 17 23 | 0 10 | 20 54 | 2 15 | 22 29 | 22 29 | 22 33 | 3 7 | 2 42 |
| S 5 | 22 30 | 22 17 | 0 25 | 16 16 | 2 44 | 8 25 | 2 27 | 25 39 | 2 49 | 21 55 | 0 27 | 15 41 | 2 21 | 0 38 | 0 44 | 17 23 | 0 10 | 20 54 | 2 15 | 22 29 | 22 28 | 22 33 | 3 6 | 2 42 |
| S 6 | 22 37 | 22 22 | 1n 0 | 16 24 | 2 41 | 8 47 | 2 28 | 25 43 | 2 52 | 21 53 | 0 27 | 15 40 | 2 21 | 0 38 | 0 44 | 17 23 | 0 10 | 20 54 | 2 15 | 22 29 | 22 28 | 22 32 | 3 6 | 2 42 |
| M 7 | 22 44 | 20 49 | 2 20 | 16 35 | 2 38 | 9 9 | 2 30 | 25 48 | 2 55 | 21 51 | 0 27 | 15 39 | 2 21 | 0 38 | 0 44 | 17 22 | 0 10 | 20 54 | 2 15 | 22 29 | 22 27 | 22 32 | 3 6 | 2 42 |
| T 8 | 22 50 | 17 50 | 3 29 | 16 48 | 2 34 | 9 31 | 2 31 | 25 52 | 2 57 | 21 49 | 0 28 | 15 38 | 2 21 | 0 38 | 0 44 | 17 22 | 0 10 | 20 54 | 2 15 | 22 29 | 22 27 | 22 32 | 3 5 | 2 41 |
| W 9 | 22 56 | 13 48 | 4 22 | 17 3 | 2 29 | 9 52 | 2 32 | 25 56 | 3 0 | 21 46 | 0 28 | 15 37 | 2 21 | 0 38 | 0 44 | 17 21 | 0 10 | 20 55 | 2 15 | 22 29 | 22 27 | 22 31 | 3 5 | 2 41 |
| T 10 | 23 1 | 9 7 | 4 58 | 17 20 | 2 24 | 10 14 | 2 34 | 26 1 | 3 3 | 21 44 | 0 28 | 15 36 | 2 20 | 0 38 | 0 44 | 17 21 | 0 10 | 20 55 | 2 15 | 22 29 | 22 26 | 22 31 | 3 5 | 2 41 |
| F 11 | 23 6 | 4 7 | 5 16 | 17 39 | 2 18 | 10 36 | 2 35 | 26 5 | 3 5 | 21 42 | 0 28 | 15 36 | 2 20 | 0 38 | 0 44 | 17 20 | 0 10 | 20 55 | 2 15 | 22 28 | 22 26 | 22 31 | 3 5 | 2 41 |
| S 12 | 23 10 | 0n55 | 5 16 | 17 58 | 2 11 | 10 58 | 2 35 | 26 9 | 3 8 | 21 40 | 0 28 | 15 35 | 2 20 | 0 38 | 0 44 | 17 20 | 0 10 | 20 55 | 2 15 | 22 28 | 22 25 | 22 31 | 3 4 | 2 40 |
| S 13 | 23 14 | 5 46 | 5 0 | 18 18 | 2 4 | 11 19 | 2 36 | 26 13 | 3 10 | 21 37 | 0 28 | 15 34 | 2 20 | 0 38 | 0 44 | 17 20 | 0 10 | 20 55 | 2 15 | 22 28 | 22 25 | 22 30 | 3 4 | 2 40 |
| M14 | 23 18 | 10 15 | 4 30 | 18 39 | 1 57 | 11 40 | 2 37 | 26 17 | 3 13 | 21 35 | 0 28 | 15 33 | 2 20 | 0 37 | 0 44 | 17 19 | 0 10 | 20 55 | 2 15 | 22 29 | 22 25 | 22 30 | 3 4 | 2 40 |
| T 15 | 23 21 | 14 14 | 3 49 | 19 0 | 1 49 | 12 2 | 2 37 | 26 21 | 3 15 | 21 33 | 0 28 | 15 32 | 2 19 | 0 37 | 0 44 | 17 19 | 0 10 | 20 55 | 2 15 | 22 29 | 22 24 | 22 30 | 3 4 | 2 40 |
| W16 | 23 23 | 17 34 | 2 58 | 19 21 | 1 42 | 12 23 | 2 37 | 26 25 | 3 17 | 21 30 | 0 28 | 15 32 | 2 19 | 0 37 | 0 44 | 17 18 | 0 10 | 20 55 | 2 15 | 22 29 | 22 24 | 22 29 | 3 4 | 2 40 |
| T 17 | 23 25 | 20 8 | 2 0 | 19 42 | 1 34 | 12 44 | 2 37 | 26 29 | 3 20 | 21 28 | 0 28 | 15 31 | 2 19 | 0 37 | 0 44 | 17 18 | 0 10 | 20 56 | 2 15 | 22 29 | 22 23 | 22 29 | 3 4 | 2 39 |
| F 18 | 23 27 | 21 49 | 0 57 | 20 3 | 1 26 | 13 5 | 2 38 | 26 33 | 3 22 | 21 26 | 0 28 | 15 30 | 2 19 | 0 37 | 0 44 | 17 17 | 0 10 | 20 56 | 2 15 | 22 29 | 22 23 | 22 29 | 3 4 | 2 39 |
| S 19 | 23 28 | 22 31 | 0s 9 | 20 23 | 1 18 | 13 25 | 2 37 | 26 36 | 3 24 | 21 23 | 0 28 | 15 30 | 2 18 | 0 36 | 0 43 | 17 17 | 0 10 | 20 56 | 2 15 | 22 29 | 22 23 | 22 28 | 3 4 | 2 39 |
| S 20 | 23 29 | 22 13 | 1 13 | 20 44 | 1 10 | 13 46 | 2 37 | 26 40 | 3 26 | 21 21 | 0 28 | 15 29 | 2 18 | 0 36 | 0 43 | 17 16 | 0 10 | 20 56 | 2 15 | 22 29 | 22 22 | 22 28 | 3 4 | 2 39 |
| M21 | 23 29 | 20 56 | 2 15 | 21 4 | 1 2 | 14 6 | 2 37 | 26 43 | 3 28 | 21 18 | 0 28 | 15 28 | 2 18 | 0 36 | 0 43 | 17 16 | 0 10 | 20 56 | 2 15 | 22 29 | 22 22 | 22 28 | 3 4 | 2 38 |
| T 22 | 23 29 | 18 43 | 3 11 | 21 23 | 0 54 | 14 26 | 2 37 | 26 46 | 3 30 | 21 16 | 0 28 | 15 28 | 2 18 | 0 36 | 0 43 | 17 15 | 0 10 | 20 56 | 2 14 | 22 29 | 22 21 | 22 27 | 3 4 | 2 38 |
| W23 | 23 28 | 15 40 | 3 59 | 21 41 | 0 46 | 14 46 | 2 36 | 26 49 | 3 31 | 21 13 | 0 28 | 15 27 | 2 17 | 0 35 | 0 43 | 17 15 | 0 10 | 20 56 | 2 14 | 22 28 | 22 21 | 22 27 | 3 4 | 2 38 |
| T 24 | 23 27 | 11 56 | 4 37 | 21 59 | 0 38 | 15 6 | 2 35 | 26 52 | 3 33 | 21 10 | 0 28 | 15 27 | 2 17 | 0 35 | 0 43 | 17 14 | 0 10 | 20 56 | 2 14 | 22 28 | 22 21 | 22 26 | 3 4 | 2 38 |
| F 25 | 23 25 | 7 40 | 5 3 | 22 16 | 0 30 | 15 25 | 2 35 | 26 55 | 3 34 | 21 8 | 0 28 | 15 26 | 2 17 | 0 35 | 0 43 | 17 14 | 0 10 | 20 57 | 2 14 | 22 27 | 22 20 | 22 26 | 3 4 | 2 38 |
| S 26 | 23 23 | 3 0 | 5 15 | 22 32 | 0 22 | 15 44 | 2 34 | 26 57 | 3 36 | 21 5 | 0 29 | 15 26 | 2 17 | 0 34 | 0 43 | 17 13 | 0 10 | 20 57 | 2 14 | 22 27 | 22 20 | 22 26 | 3 4 | 2 37 |
| S 27 | 23 20 | 1s54 | 5 11 | 22 47 | 0 15 | 16 3 | 2 33 | 27 0 | 3 37 | 21 2 | 0 29 | 15 25 | 2 16 | 0 34 | 0 43 | 17 13 | 0 10 | 20 57 | 2 14 | 22 27 | 22 19 | 22 25 | 3 4 | 2 37 |
| M28 | 23 17 | 6 49 | 4 51 | 23 2 | 0 7 | 16 21 | 2 32 | 27 2 | 3 38 | 21 0 | 0 29 | 15 25 | 2 16 | 0 33 | 0 43 | 17 12 | 0 10 | 20 57 | 2 14 | 22 27 | 22 19 | 22 25 | 3 4 | 2 37 |
| T 29 | 23 13 | 11 33 | 4 15 | 23 15 | 0s 0 | 16 39 | 2 30 | 27 4 | 3 40 | 20 57 | 0 29 | 15 24 | 2 16 | 0 33 | 0 43 | 17 12 | 0 10 | 20 57 | 2 14 | 22 27 | 22 19 | 22 25 | 3 4 | 2 37 |
| W30 | 23 9 | 15 50 | 3 23 | 23 27 | 0 8 | 16 57 | 2 29 | 27 6 | 3 41 | 20 54 | 0 29 | 15 24 | 2 16 | 0 32 | 0 43 | 17 11 | 0 10 | 20 57 | 2 14 | 22 27 | 22 18 | 22 24 | 3 5 | 2 36 |
| T 31 | 23s 5 | 19s19 | 2s17 | 23s38 | 0s15 | 17s14 | 2n28 | 27n 7 | 3n42 | 20s51 | 0s29 | 15n24 | 2s15 | 0s32 | 0s43 | 17s11 | 0s10 | 20n57 | 2s14 | 22s27 | 22s18 | 22n24 | 3n 5 | 2n36 |

Julian Day Number = 2333541.5, Delta T = 25.46 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'50, Lahiri = 19°20'50Greg. Calendar


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## JANUARY 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 44 44 | 11♑18'56 | 2♐18 | 26♐27 | 28♏40 | 3°R17 | 29♑16 | 19°R13 | 0♈20 | 12♒47 | 8°R49 | 13♐28 | 12♐10 | 20♊40 | 1♈45 | F 1 |
| S 2 | 6 48 41 | 12°20'08 | 17°14 | 27°57 | 29°51 | 2♋55 | 29°30 | 19♉11 | 0°21 | 12°49 | 8♋48 | 13°R28 | 12° 6 | 20°47 | 1°46 | S 2 |
| S 3 | 6 52 38 | 13°21'20 | 2♑21 | 29°28 | 1♐ 2 | 2°33 | 29°44 | 19° 9 | 0°23 | 12°51 | 8°46 | 13°27 | 12° 3 | 20°53 | 1°48 | S 3 |
| M 4 | 6 56 34 | 14°22'31 | 17°30 | 0♑59 | 2°13 | 2°11 | 29°58 | 19° 7 | 0°24 | 12°53 | 8°45 | 13°25 | 12° 0 | 21° 0 | 1°49 | M 4 |
| T 5 | 7 0 31 | 15°23'43 | 2♒30 | 2°30 | 3°24 | 1°50 | 0♒12 | 19° 6 | 0°25 | 12°55 | 8°44 | 13°20 | 11°57 | 21° 6 | 1°50 | T 5 |
| W 6 | 7 4 27 | 16°24'53 | 17°14 | 4° 2 | 4°35 | 1°29 | 0°26 | 19° 4 | 0°27 | 12°57 | 8°43 | 13°15 | 11°54 | 21°13 | 1°52 | W 6 |
| T 7 | 7 8 24 | 17°26'04 | 1♓33 | 5°34 | 5°46 | 1° 9 | 0°40 | 19° 3 | 0°28 | 12°59 | 8°41 | 13°10 | 11°50 | 21°20 | 1°53 | T 7 |
| F 8 | 7 12 20 | 18°27'13 | 15°25 | 7° 7 | 6°58 | 0°49 | 0°54 | 19° 1 | 0°30 | 13° 1 | 8°40 | 13° 5 | 11°47 | 21°26 | 1°54 | F 8 |
| S 9 | 7 16 17 | 19°28'22 | 28°47 | 8°40 | 8° 9 | 0°31 | 1° 8 | 19° 0 | 0°31 | 13° 3 | 8°39 | 13° 2 | 11°44 | 21°33 | 1°56 | S 9 |
| S 10 | 7 20 13 | 20°29'30 | 11♈43 | 10°14 | 9°20 | 0°12 | 1°22 | 18°59 | 0°33 | 13° 6 | 8°38 | 13° 0 | 11°41 | 21°40 | 1°58 | S 10 |
| M11 | 7 24 10 | 21°30'38 | 24°15 | 11°48 | 10°32 | 29♊55 | 1°37 | 18°58 | 0°34 | 13° 8 | 8°37 | 12°D59 | 11°38 | 21°46 | 1°59 | M11 |
| T 12 | 7 28 7 | 22°31'44 | 6♉29 | 13°22 | 11°44 | 29°38 | 1°51 | 18°57 | 0°36 | 13°10 | 8°35 | 13° 0 | 11°35 | 21°53 | 2° 1 | T 12 |
| W13 | 7 32 3 | 23°32'50 | 18°28 | 14°58 | 12°55 | 29°22 | 2° 5 | 18°56 | 0°38 | 13°12 | 8°34 | 13° 2 | 11°31 | 22° 0 | 2° 3 | W13 |
| T 14 | 7 36 0 | 24°33'55 | 0♊19 | 16°33 | 14° 7 | 29° 6 | 2°19 | 18°56 | 0°40 | 13°14 | 8°33 | 13° 3 | 11°28 | 22° 6 | 2° 4 | T 14 |
| F 15 | 7 39 56 | 25°34'59 | 12° 5 | 18°10 | 15°19 | 28°51 | 2°33 | 18°55 | 0°42 | 13°16 | 8°32 | 13°R 4 | 11°25 | 22°13 | 2° 6 | F 15 |
| S 16 | 7 43 53 | 26°36'03 | 23°52 | 19°46 | 16°31 | 28°37 | 2°47 | 18°55 | 0°43 | 13°19 | 8°31 | 13° 3 | 11°22 | 22°20 | 2° 8 | S 16 |
| S 17 | 7 47 49 | 27°37'05 | 5♋42 | 21°24 | 17°43 | 28°24 | 3° 2 | 18°55 | 0°45 | 13°21 | 8°29 | 13° 1 | 11°19 | 22°26 | 2°10 | S 17 |
| M18 | 7 51 46 | 28°38'07 | 17°39 | 23° 2 | 18°55 | 28°12 | 3°16 | 18°54 | 0°47 | 13°23 | 8°28 | 12°56 | 11°16 | 22°33 | 2°12 | M18 |
| T 19 | 7 55 42 | 29°39'08 | 29°44 | 24°40 | 20° 7 | 28° 0 | 3°30 | 18°D54 | 0°49 | 13°25 | 8°27 | 12°49 | 11°12 | 22°40 | 2°14 | T 19 |
| W20 | 7 59 39 | 0♒40'08 | 11♌58 | 26°20 | 21°19 | 27°49 | 3°44 | 18°54 | 0°51 | 13°27 | 8°26 | 12°40 | 11° 9 | 22°46 | 2°16 | W20 |
| T 21 | 8 3 36 | 1°41'07 | 24°23 | 27°59 | 22°31 | 27°39 | 3°59 | 18°54 | 0°53 | 13°30 | 8°25 | 12°30 | 11° 6 | 22°53 | 2°18 | T 21 |
| F 22 | 8 7 32 | 2°42'05 | 6♍59 | 29°40 | 23°44 | 27°30 | 4°13 | 18°55 | 0°56 | 13°32 | 8°24 | 12°21 | 11° 3 | 23° 0 | 2°21 | F 22 |
| S 23 | 8 11 29 | 3°43'03 | 19°47 | 1♒21 | 24°56 | 27°22 | 4°27 | 18°55 | 0°58 | 13°34 | 8°23 | 12°13 | 11° 0 | 23° 6 | 2°23 | S 23 |
| S 24 | 8 15 25 | 4°43'59 | 2♎47 | 3° 3 | 26° 8 | 27°14 | 4°41 | 18°56 | 1° 0 | 13°36 | 8°21 | 12° 6 | 10°56 | 23°13 | 2°25 | S 24 |
| M25 | 8 19 22 | 5°44'55 | 16° 1 | 4°45 | 27°21 | 27° 7 | 4°56 | 18°56 | 1° 2 | 13°39 | 8°20 | 12° 2 | 10°53 | 23°19 | 2°27 | M25 |
| T 26 | 8 23 18 | 6°45'51 | 29°30 | 6°29 | 28°33 | 27° 1 | 5°10 | 18°57 | 1° 4 | 13°41 | 8°19 | 12° 0 | 10°50 | 23°26 | 2°30 | T 26 |
| W27 | 8 27 15 | 7°46'45 | 13♏15 | 8°12 | 29°46 | 26°56 | 5°24 | 18°58 | 1° 7 | 13°43 | 8°18 | 12°D 0 | 10°47 | 23°33 | 2°32 | W27 |
| T 28 | 8 31 11 | 8°47'39 | 27°16 | 9°57 | 0♑59 | 26°52 | 5°38 | 18°59 | 1° 9 | 13°46 | 8°17 | 12° 0 | 10°44 | 23°39 | 2°34 | T 28 |
| F 29 | 8 35 8 | 9°48'32 | 11♐35 | 11°42 | 2°11 | 26°48 | 5°53 | 19° 0 | 1°12 | 13°48 | 8°16 | 12°R 1 | 10°41 | 23°46 | 2°37 | F 29 |
| S 30 | 8 39 5 | 10°49'25 | 26° 8 | 13°28 | 3°24 | 26°45 | 6° 7 | 19° 1 | 1°14 | 13°50 | 8°15 | 12° 0 | 10°37 | 23°53 | 2°39 | S 30 |
| S 31 | 8 43 1 | 11♒50'16 | 10♑53 | 15♒15 | 4♑37 | 26♊43 | 6♒21 | 19♉ 2 | 1♈16 | 13♒52 | 8♋14 | 11♐57 | 10♐34 | 23♊59 | 2♈42 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 23s 0 | 21s39 | 1s 1 | 23s48 | 0s22 | 17s31 | 2n26 | 27n 9 | 3n42 | 20s49 | 0s29 | 15n23 | 2s15 | 0s31 | 0s43 | 17s10 | 0s10 | 20n58 | 2s14 | 22s27 | 22s17 | 22n23 | 3n 5 | 2n36 | |
| S 2 | 22 54 | 22 31 | 0n21 | 23 57 | 0 29 | 17 48 | 2 25 | 27 10 | 3 43 | 20 46 | 0 29 | 15 23 | 2 15 | 0 31 | 0 43 | 17 9 | 0 10 | 20 58 | 2 14 | 22 27 | 22 17 | 22 23 | 3 5 | 2 36 | |
| S 3 | 22 49 | 21 46 | 1 42 | 24 4 | 0 36 | 18 4 | 2 23 | 27 11 | 3 44 | 20 43 | 0 29 | 15 23 | 2 15 | 0 30 | 0 43 | 17 9 | 0 10 | 20 58 | 2 14 | 22 27 | 22 16 | 22 23 | 3 6 | 2 36 | |
| M 4 | 22 42 | 19 26 | 2 56 | 24 11 | 0 42 | 18 20 | 2 21 | 27 12 | 3 44 | 20 40 | 0 29 | 15 23 | 2 14 | 0 30 | 0 43 | 17 8 | 0 10 | 20 58 | 2 14 | 22 27 | 22 16 | 22 22 | 3 6 | 2 35 | |
| T 5 | 22 35 | 15 47 | 3 57 | 24 16 | 0 49 | 18 35 | 2 20 | 27 13 | 3 45 | 20 37 | 0 29 | 15 23 | 2 14 | 0 29 | 0 43 | 17 8 | 0 10 | 20 58 | 2 14 | 22 26 | 22 16 | 22 22 | 3 6 | 2 35 | |
| W 6 | 22 28 | 11 14 | 4 41 | 24 20 | 0 55 | 18 50 | 2 18 | 27 13 | 3 45 | 20 34 | 0 29 | 15 22 | 2 14 | 0 29 | 0 43 | 17 7 | 0 10 | 20 58 | 2 14 | 22 26 | 22 15 | 22 21 | 3 7 | 2 35 | |
| T 7 | 22 21 | 6 10 | 5 6 | 24 23 | 1 1 | 19 5 | 2 16 | 27 14 | 3 45 | 20 31 | 0 29 | 15 22 | 2 13 | 0 28 | 0 43 | 17 6 | 0 10 | 20 58 | 2 14 | 22 25 | 22 15 | 22 21 | 3 7 | 2 35 | |
| F 8 | 22 12 | 0 58 | 5 12 | 24 24 | 1 7 | 19 19 | 2 14 | 27 14 | 3 46 | 20 28 | 0 29 | 15 22 | 2 13 | 0 27 | 0 43 | 17 6 | 0 10 | 20 59 | 2 13 | 22 24 | 22 14 | 22 20 | 3 7 | 2 35 | |
| S 9 | 22 4 | 4n 7 | 5 1 | 24 24 | 1 12 | 19 32 | 2 11 | 27 14 | 3 46 | 20 25 | 0 29 | 15 22 | 2 13 | 0 27 | 0 43 | 17 5 | 0 10 | 20 59 | 2 13 | 22 24 | 22 14 | 22 20 | 3 8 | 2 34 | |
| S 10 | 21 55 | 8 51 | 4 34 | 24 22 | 1 18 | 19 46 | 2 9 | 27 14 | 3 46 | 20 22 | 0 30 | 15 22 | 2 13 | 0 26 | 0 43 | 17 5 | 0 10 | 20 59 | 2 13 | 22 24 | 22 14 | 22 20 | 3 8 | 2 34 | |
| M11 | 21 45 | 13 4 | 3 55 | 24 20 | 1 23 | 19 58 | 2 7 | 27 14 | 3 46 | 20 19 | 0 30 | 15 22 | 2 12 | 0 25 | 0 43 | 17 4 | 0 10 | 20 59 | 2 13 | 22 24 | 22 13 | 22 19 | 3 9 | 2 34 | |
| T 12 | 21 36 | 16 38 | 3 6 | 24 16 | 1 28 | 20 10 | 2 5 | 27 14 | 3 45 | 20 16 | 0 30 | 15 22 | 2 12 | 0 25 | 0 43 | 17 4 | 0 10 | 20 59 | 2 13 | 22 24 | 22 13 | 22 19 | 3 9 | 2 34 | |
| W13 | 21 25 | 19 26 | 2 10 | 24 10 | 1 32 | 20 22 | 2 2 | 27 14 | 3 45 | 20 13 | 0 30 | 15 22 | 2 12 | 0 24 | 0 42 | 17 3 | 0 10 | 20 59 | 2 13 | 22 24 | 22 12 | 22 18 | 3 10 | 2 34 | |
| T 14 | 21 15 | 21 22 | 1 9 | 24 3 | 1 37 | 20 33 | 2 0 | 27 14 | 3 45 | 20 10 | 0 30 | 15 22 | 2 11 | 0 23 | 0 42 | 17 2 | 0 10 | 20 59 | 2 13 | 22 24 | 22 12 | 22 18 | 3 10 | 2 33 | |
| F 15 | 21 4 | 22 22 | 0 5 | 23 55 | 1 41 | 20 44 | 1 57 | 27 13 | 3 44 | 20 7 | 0 30 | 15 22 | 2 11 | 0 22 | 0 42 | 17 2 | 0 10 | 21 0 | 2 13 | 22 24 | 22 11 | 22 17 | 3 11 | 2 33 | |
| S 16 | 20 52 | 22 22 | 0s58 | 23 45 | 1 44 | 20 54 | 1 55 | 27 12 | 3 44 | 20 3 | 0 30 | 15 23 | 2 11 | 0 22 | 0 42 | 17 1 | 0 10 | 21 0 | 2 13 | 22 24 | 22 11 | 22 17 | 3 11 | 2 33 | |
| S 17 | 20 40 | 21 22 | 2 0 | 23 33 | 1 48 | 21 3 | 1 52 | 27 12 | 3 44 | 20 0 | 0 30 | 15 23 | 2 11 | 0 21 | 0 42 | 17 0 | 0 10 | 21 0 | 2 13 | 22 24 | 22 10 | 22 16 | 3 12 | 2 33 | |
| M18 | 20 28 | 19 24 | 2 56 | 23 20 | 1 51 | 21 12 | 1 49 | 27 11 | 3 43 | 19 57 | 0 30 | 15 23 | 2 10 | 0 20 | 0 42 | 17 0 | 0 10 | 21 0 | 2 13 | 22 23 | 22 10 | 22 16 | 3 13 | 2 33 | |
| T 19 | 20 16 | 16 34 | 3 45 | 23 6 | 1 54 | 21 21 | 1 46 | 27 10 | 3 42 | 19 54 | 0 30 | 15 23 | 2 10 | 0 19 | 0 42 | 16 59 | 0 10 | 21 0 | 2 13 | 22 22 | 22 10 | 22 15 | 3 13 | 2 32 | |
| W20 | 20 3 | 13 0 | 4 24 | 22 50 | 1 57 | 21 28 | 1 44 | 27 9 | 3 42 | 19 50 | 0 30 | 15 24 | 2 10 | 0 18 | 0 42 | 16 59 | 0 10 | 21 0 | 2 13 | 22 21 | 22 9 | 22 15 | 3 14 | 2 32 | |
| T 21 | 19 49 | 8 50 | 4 52 | 22 32 | 1 59 | 21 35 | 1 41 | 27 8 | 3 41 | 19 47 | 0 30 | 15 24 | 2 9 | 0 17 | 0 42 | 16 58 | 0 10 | 21 1 | 2 12 | 22 20 | 22 9 | 22 14 | 3 15 | 2 32 | |
| F 22 | 19 35 | 4 14 | 5 5 | 22 13 | 2 1 | 21 42 | 1 38 | 27 7 | 3 40 | 19 44 | 0 31 | 15 24 | 2 9 | 0 17 | 0 42 | 16 57 | 0 10 | 21 1 | 2 12 | 22 19 | 22 8 | 22 14 | 3 15 | 2 32 | |
| S 23 | 19 21 | 0s37 | 5 4 | 21 53 | 2 2 | 21 48 | 1 35 | 27 6 | 3 39 | 19 41 | 0 31 | 15 25 | 2 9 | 0 16 | 0 42 | 16 57 | 0 10 | 21 1 | 2 12 | 22 18 | 22 8 | 22 13 | 3 16 | 2 32 | |
| S 24 | 19 7 | 5 30 | 4 47 | 21 31 | 2 3 | 21 53 | 1 32 | 27 5 | 3 38 | 19 37 | 0 31 | 15 25 | 2 9 | 0 15 | 0 42 | 16 56 | 0 10 | 21 1 | 2 12 | 22 17 | 22 7 | 22 13 | 3 17 | 2 31 | |
| M25 | 18 52 | 10 14 | 4 15 | 21 7 | 2 4 | 21 58 | 1 29 | 27 4 | 3 37 | 19 34 | 0 31 | 15 26 | 2 8 | 0 14 | 0 42 | 16 55 | 0 10 | 21 1 | 2 12 | 22 16 | 22 7 | 22 12 | 3 17 | 2 31 | |
| T 26 | 18 37 | 14 33 | 3 28 | 20 42 | 2 5 | 22 2 | 1 26 | 27 3 | 3 37 | 19 31 | 0 31 | 15 26 | 2 8 | 0 13 | 0 42 | 16 55 | 0 10 | 21 1 | 2 12 | 22 16 | 22 6 | 22 12 | 3 18 | 2 31 | |
| W27 | 18 21 | 18 12 | 2 28 | 20 15 | 2 4 | 22 6 | 1 23 | 27 2 | 3 36 | 19 27 | 0 31 | 15 27 | 2 8 | 0 12 | 0 42 | 16 54 | 0 10 | 21 1 | 2 12 | 22 16 | 22 6 | 22 11 | 3 19 | 2 31 | |
| T 28 | 18 6 | 20 51 | 1 18 | 19 46 | 2 4 | 22 9 | 1 20 | 27 1 | 3 35 | 19 24 | 0 31 | 15 27 | 2 7 | 0 11 | 0 42 | 16 53 | 0 10 | 21 2 | 2 12 | 22 16 | 22 6 | 22 11 | 3 20 | 2 31 | |
| F 29 | 17 49 | 22 15 | 0 2 | 19 16 | 2 3 | 22 11 | 1 17 | 27 0 | 3 33 | 19 20 | 0 31 | 15 28 | 2 7 | 0 10 | 0 42 | 16 53 | 0 10 | 21 2 | 2 12 | 22 16 | 22 5 | 22 10 | 3 21 | 2 31 | |
| S 30 | 17 33 | 22 11 | 1n15 | 18 45 | 2 1 | 22 13 | 1 13 | 26 59 | 3 32 | 19 17 | 0 31 | 15 28 | 2 7 | 0 9 | 0 42 | 16 52 | 0 10 | 21 2 | 2 12 | 22 16 | 22 5 | 22 9 | 3 21 | 2 30 | |
| S 31 | 17s16 | 20s34 | 2n28 | 18s12 | 1s59 | 22s14 | 1n10 | 26n58 | 3n31 | 19s13 | 0s31 | 15n29 | 2s 6 | 0s 8 | 0s42 | 16s51 | 0s10 | 21n 2 | 2s12 | 22s16 | 22s 4 | 22n 9 | 3n22 | 2n30 | |

Julian Day Number = 2333572.5, Delta T = 25.41 sec
Ecliptic obliquity = 23°28'49, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'54, Lahiri = 19°20'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## FEBRUARY 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 46 58 | 12♒51'06 | 25♉43 | 17♒ 2 | 5♉50 | 26°R42 | 6♒35 | 19♉ 3 | 1♈19 | 13♒55 | 8°R13 | 11°R51 | 10♐31 | 24♊ 6 | 2♈45 | M 1 |
| T 2 | 8 50 54 | 13°51'55 | 10♒30 | 18°50 | 7° 2 | 26°D41 | 6°50 | 19° 5 | 1°22 | 13°57 | 8♋12 | 11♐43 | 10°28 | 24°13 | 2°47 | T 2 |
| W 3 | 8 54 51 | 14°52'43 | 25° 7 | 20°38 | 8°15 | 26♊42 | 7° 4 | 19° 7 | 1°24 | 13°59 | 8°11 | 11°33 | 10°25 | 24°19 | 2°50 | W 3 |
| T 4 | 8 58 47 | 15°53'29 | 9♓25 | 22°26 | 9°28 | 26°43 | 7°18 | 19° 8 | 1°27 | 14° 2 | 8°10 | 11°22 | 10°22 | 24°26 | 2°53 | T 4 |
| F 5 | 9 2 44 | 16°54'14 | 23°19 | 24°15 | 10°41 | 26°44 | 7°32 | 19°10 | 1°29 | 14° 4 | 8° 9 | 11°12 | 10°18 | 24°33 | 2°55 | F 5 |
| S 6 | 9 6 40 | 17°54'57 | 6♈47 | 26° 5 | 11°54 | 26°47 | 7°46 | 19°12 | 1°32 | 14° 6 | 8° 8 | 11° 3 | 10°15 | 24°39 | 2°58 | S 6 |
| S 7 | 9 10 37 | 18°55'39 | 19°48 | 27°54 | 13° 7 | 26°50 | 8° 1 | 19°14 | 1°35 | 14° 8 | 8° 7 | 10°57 | 10°12 | 24°46 | 3° 1 | S 7 |
| M 8 | 9 14 34 | 19°56'19 | 2♉24 | 29°43 | 14°20 | 26°54 | 8°15 | 19°16 | 1°37 | 14°11 | 8° 6 | 10°53 | 10° 9 | 24°53 | 3° 4 | M 8 |
| T 9 | 9 18 30 | 20°56'58 | 14°40 | 1♓32 | 15°33 | 26°59 | 8°29 | 19°19 | 1°40 | 14°13 | 8° 5 | 10°52 | 10° 6 | 24°59 | 3° 7 | T 9 |
| W10 | 9 22 27 | 21°57'34 | 26°41 | 3°21 | 16°46 | 27° 4 | 8°43 | 19°21 | 1°43 | 14°15 | 8° 5 | 10°D51 | 10° 2 | 25° 6 | 3°10 | W10 |
| T 11 | 9 26 23 | 22°58'09 | 8♊32 | 5° 9 | 17°59 | 27°10 | 8°57 | 19°23 | 1°46 | 14°17 | 8° 4 | 10°R52 | 9°59 | 25°12 | 3°13 | T 11 |
| F 12 | 9 30 20 | 23°58'42 | 20°19 | 6°55 | 19°12 | 27°17 | 9°11 | 19°26 | 1°49 | 14°20 | 8° 3 | 10°51 | 9°56 | 25°19 | 3°16 | F 12 |
| S 13 | 9 34 16 | 24°59'14 | 2♋ 7 | 8°41 | 20°25 | 27°24 | 9°25 | 19°29 | 1°52 | 14°22 | 8° 2 | 10°49 | 9°53 | 25°26 | 3°19 | S 13 |
| S 14 | 9 38 13 | 25°59'43 | 14° 1 | 10°24 | 21°39 | 27°32 | 9°39 | 19°31 | 1°55 | 14°24 | 8° 1 | 10°45 | 9°50 | 25°32 | 3°22 | S 14 |
| M15 | 9 42 9 | 27° 0'11 | 26° 3 | 12° 5 | 22°52 | 27°40 | 9°53 | 19°34 | 1°57 | 14°26 | 8° 1 | 10°37 | 9°47 | 25°39 | 3°25 | M15 |
| T 16 | 9 46 6 | 28° 0'37 | 8♌18 | 13°44 | 24° 5 | 27°49 | 10° 7 | 19°37 | 2° 0 | 14°29 | 8° 0 | 10°27 | 9°43 | 25°46 | 3°28 | T 16 |
| W17 | 9 50 3 | 29° 1'01 | 20°47 | 15°19 | 25°18 | 27°59 | 10°21 | 19°40 | 2° 3 | 14°31 | 7°59 | 10°15 | 9°40 | 25°52 | 3°31 | W17 |
| T 18 | 9 53 59 | 0♓ 1'24 | 3♍30 | 16°51 | 26°31 | 28°10 | 10°35 | 19°44 | 2° 6 | 14°33 | 7°58 | 10° 2 | 9°37 | 25°59 | 3°34 | T 18 |
| F 19 | 9 57 56 | 1° 1'44 | 16°26 | 18°18 | 27°45 | 28°20 | 10°49 | 19°47 | 2° 9 | 14°35 | 7°58 | 9°48 | 9°34 | 26° 6 | 3°37 | F 19 |
| S 20 | 10 1 52 | 2° 2'03 | 29°36 | 19°39 | 28°58 | 28°32 | 11° 2 | 19°50 | 2°12 | 14°38 | 7°57 | 9°36 | 9°31 | 26°12 | 3°41 | S 20 |
| S 21 | 10 5 49 | 3° 2'21 | 12♎56 | 20°56 | 0♒11 | 28°44 | 11°16 | 19°54 | 2°16 | 14°40 | 7°56 | 9°26 | 9°28 | 26°19 | 3°44 | S 21 |
| M22 | 10 9 45 | 4° 2'37 | 26°27 | 22° 5 | 1°25 | 28°56 | 11°30 | 19°57 | 2°19 | 14°42 | 7°56 | 9°19 | 9°24 | 26°26 | 3°47 | M22 |
| T 23 | 10 13 42 | 5° 2'51 | 10♏ 7 | 23° 8 | 2°38 | 29° 9 | 11°44 | 20° 1 | 2°22 | 14°44 | 7°55 | 9°15 | 9°21 | 26°32 | 3°50 | T 23 |
| W24 | 10 17 38 | 6° 3'04 | 23°55 | 24° 4 | 3°51 | 29°23 | 11°57 | 20° 5 | 2°25 | 14°46 | 7°54 | 9°13 | 9°18 | 26°39 | 3°54 | W24 |
| T 25 | 10 21 35 | 7° 3'16 | 7♐53 | 24°51 | 5° 5 | 29°37 | 12°11 | 20° 9 | 2°28 | 14°48 | 7°54 | 9°13 | 9°15 | 26°46 | 3°57 | T 25 |
| F 26 | 10 25 32 | 8° 3'26 | 21°59 | 25°30 | 6°18 | 29°51 | 12°24 | 20°13 | 2°31 | 14°51 | 7°53 | 9°13 | 9°12 | 26°52 | 4° 0 | F 26 |
| S 27 | 10 29 28 | 9° 3'34 | 6♑13 | 26° 0 | 7°32 | 0♋ 6 | 12°38 | 20°17 | 2°35 | 14°53 | 7°53 | 9°11 | 9° 8 | 26°59 | 4° 4 | S 27 |
| S 28 | 10 33 25 | 10♓ 3'41 | 20♑33 | 26♓22 | 8♒45 | 0♋22 | 12♒52 | 20♉21 | 2♈38 | 14♒55 | 7♋52 | 9♐ 7 | 9♐ 5 | 27♊ 6 | 4♈ 7 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 16s59 | 17s34 | 3n31 | 17s37 | 1s57 | 22s14 | 1n 7 | 26n56 | 3n30 | 19s10 | 0s31 | 15n30 | 2s 6 | 0s 7 | 0s42 | 16s51 | 0s10 | 21n 2 | 2s12 | 22s15 | 22s 4 | 22n 8 | 3n23 | 2n30 |
| T 2 | 16 42 | 13 27 | 4 20 | 17 1 | 1 54 | 22 14 | 1 4 | 26 55 | 3 29 | 19 6 | 0 32 | 15 30 | 2 6 | 0 6 | 0 42 | 16 50 | 0 10 | 21 2 | 2 11 | 22 14 | 22 3 | 22 8 | 3 24 | 2 30 |
| W 3 | 16 24 | 8 36 | 4 51 | 16 23 | 1 50 | 22 13 | 1 1 | 26 54 | 3 28 | 19 3 | 0 32 | 15 31 | 2 6 | 0 5 | 0 42 | 16 50 | 0 10 | 21 3 | 2 11 | 22 12 | 22 3 | 22 7 | 3 25 | 2 30 |
| T 4 | 16 6 | 3 22 | 5 3 | 15 44 | 1 46 | 22 11 | 0 57 | 26 53 | 3 27 | 18 59 | 0 32 | 15 32 | 2 5 | 0 4 | 0 42 | 16 49 | 0 10 | 21 3 | 2 11 | 22 11 | 22 2 | 22 7 | 3 26 | 2 29 |
| F 5 | 15 48 | 1n53 | 4 57 | 15 3 | 1 41 | 22 9 | 0 54 | 26 52 | 3 25 | 18 56 | 0 32 | 15 32 | 2 5 | 0 3 | 0 42 | 16 48 | 0 10 | 21 3 | 2 11 | 22 9 | 22 2 | 22 6 | 3 27 | 2 29 |
| S 6 | 15 29 | 6 53 | 4 34 | 14 21 | 1 36 | 22 6 | 0 51 | 26 51 | 3 24 | 18 52 | 0 32 | 15 33 | 2 5 | 0 2 | 0 42 | 16 48 | 0 10 | 21 3 | 2 11 | 22 8 | 22 1 | 22 5 | 3 28 | 2 29 |
| S 7 | 15 11 | 11 25 | 3 57 | 13 38 | 1 30 | 22 3 | 0 48 | 26 49 | 3 23 | 18 49 | 0 32 | 15 34 | 2 4 | 0 1 | 0 42 | 16 47 | 0 10 | 21 3 | 2 11 | 22 7 | 22 1 | 22 5 | 3 29 | 2 29 |
| M 8 | 14 52 | 15 18 | 3 10 | 12 53 | 1 23 | 21 58 | 0 44 | 26 48 | 3 22 | 18 45 | 0 32 | 15 35 | 2 4 | 0n 1 | 0 42 | 16 46 | 0 11 | 21 3 | 2 11 | 22 7 | 22 1 | 22 4 | 3 30 | 2 29 |
| T 9 | 14 32 | 18 25 | 2 15 | 12 8 | 1 16 | 21 54 | 0 41 | 26 47 | 3 20 | 18 42 | 0 32 | 15 36 | 2 4 | 0 2 | 0 42 | 16 46 | 0 11 | 21 3 | 2 11 | 22 7 | 22 0 | 22 4 | 3 31 | 2 29 |
| W10 | 14 13 | 20 40 | 1 15 | 11 21 | 1 8 | 21 48 | 0 38 | 26 46 | 3 19 | 18 38 | 0 32 | 15 37 | 2 4 | 0 3 | 0 42 | 16 45 | 0 11 | 21 4 | 2 11 | 22 7 | 22 0 | 22 3 | 3 32 | 2 29 |
| T 11 | 13 53 | 21 58 | 0 12 | 10 33 | 0 59 | 21 42 | 0 35 | 26 45 | 3 18 | 18 34 | 0 32 | 15 38 | 2 3 | 0 4 | 0 42 | 16 44 | 0 11 | 21 4 | 2 11 | 22 7 | 21 59 | 22 2 | 3 33 | 2 28 |
| F 12 | 13 33 | 22 18 | 0s50 | 9 45 | 0 50 | 21 35 | 0 31 | 26 44 | 3 17 | 18 31 | 0 33 | 15 39 | 2 3 | 0 5 | 0 42 | 16 44 | 0 11 | 21 4 | 2 11 | 22 7 | 21 59 | 22 2 | 3 34 | 2 28 |
| S 13 | 13 13 | 21 37 | 1 50 | 8 56 | 0 39 | 21 28 | 0 28 | 26 42 | 3 15 | 18 27 | 0 33 | 15 40 | 2 3 | 0 6 | 0 42 | 16 43 | 0 11 | 21 4 | 2 10 | 22 6 | 21 58 | 22 1 | 3 35 | 2 28 |
| S 14 | 12 53 | 19 59 | 2 46 | 8 7 | 0 29 | 21 20 | 0 25 | 26 41 | 3 14 | 18 24 | 0 33 | 15 41 | 2 2 | 0 8 | 0 42 | 16 42 | 0 11 | 21 4 | 2 10 | 22 6 | 21 58 | 22 1 | 3 36 | 2 28 |
| M15 | 12 32 | 17 27 | 3 35 | 7 18 | 0 17 | 21 11 | 0 22 | 26 40 | 3 13 | 18 20 | 0 33 | 15 42 | 2 2 | 0 9 | 0 41 | 16 42 | 0 11 | 21 4 | 2 10 | 22 5 | 21 57 | 22 0 | 3 37 | 2 28 |
| T 16 | 12 11 | 14 7 | 4 15 | 6 29 | 0 5 | 21 2 | 0 18 | 26 39 | 3 11 | 18 16 | 0 33 | 15 43 | 2 2 | 0 10 | 0 41 | 16 41 | 0 11 | 21 4 | 2 10 | 22 3 | 21 57 | 21 59 | 3 38 | 2 28 |
| W17 | 11 50 | 10 6 | 4 44 | 5 41 | 0n 8 | 20 52 | 0 15 | 26 38 | 3 10 | 18 13 | 0 33 | 15 44 | 2 2 | 0 11 | 0 41 | 16 41 | 0 11 | 21 5 | 2 10 | 22 1 | 21 56 | 21 59 | 3 39 | 2 27 |
| T 18 | 11 29 | 5 36 | 4 59 | 4 53 | 0 21 | 20 41 | 0 12 | 26 37 | 3 9 | 18 9 | 0 33 | 15 45 | 2 1 | 0 12 | 0 41 | 16 40 | 0 11 | 21 5 | 2 10 | 21 59 | 21 56 | 21 58 | 3 40 | 2 27 |
| F 19 | 11 8 | 0 47 | 4 58 | 4 6 | 0 35 | 20 30 | 0 9 | 26 36 | 3 7 | 18 5 | 0 33 | 15 46 | 2 1 | 0 14 | 0 41 | 16 39 | 0 11 | 21 5 | 2 10 | 21 58 | 21 55 | 21 57 | 3 42 | 2 27 |
| S 20 | 10 46 | 4s10 | 4 43 | 3 21 | 0 49 | 20 19 | 0 6 | 26 34 | 3 6 | 18 2 | 0 33 | 15 47 | 2 1 | 0 15 | 0 41 | 16 39 | 0 11 | 21 5 | 2 10 | 21 56 | 21 55 | 21 57 | 3 43 | 2 27 |
| S 21 | 10 24 | 8 58 | 4 11 | 2 38 | 1 3 | 20 6 | 0 3 | 26 33 | 3 5 | 17 58 | 0 34 | 15 48 | 2 1 | 0 16 | 0 41 | 16 38 | 0 11 | 21 5 | 2 10 | 21 54 | 21 54 | 21 56 | 3 44 | 2 27 |
| M22 | 10 3 | 13 25 | 3 25 | 1 57 | 1 18 | 19 53 | 0s 1 | 26 32 | 3 4 | 17 54 | 0 34 | 15 50 | 2 0 | 0 17 | 0 41 | 16 37 | 0 11 | 21 5 | 2 9 | 21 53 | 21 54 | 21 55 | 3 45 | 2 27 |
| T 23 | 9 41 | 17 12 | 2 27 | 1 19 | 1 32 | 19 40 | 0 4 | 26 31 | 3 2 | 17 50 | 0 34 | 15 51 | 2 0 | 0 19 | 0 41 | 16 37 | 0 11 | 21 5 | 2 9 | 21 53 | 21 53 | 21 55 | 3 46 | 2 27 |
| W24 | 9 18 | 20 5 | 1 20 | 0 44 | 1 47 | 19 26 | 0 7 | 26 30 | 3 1 | 17 47 | 0 34 | 15 52 | 2 0 | 0 20 | 0 41 | 16 36 | 0 11 | 21 6 | 2 9 | 21 52 | 21 53 | 21 54 | 3 47 | 2 26 |
| T 25 | 8 56 | 21 47 | 0 7 | 0 12 | 2 1 | 19 11 | 0 10 | 26 29 | 3 0 | 17 43 | 0 34 | 15 53 | 2 0 | 0 21 | 0 41 | 16 35 | 0 11 | 21 6 | 2 9 | 21 52 | 21 53 | 21 53 | 3 49 | 2 26 |
| F 26 | 8 34 | 22 7 | 1n 7 | 0n17 | 2 15 | 18 56 | 0 13 | 26 27 | 2 58 | 17 39 | 0 34 | 15 55 | 1 59 | 0 22 | 0 41 | 16 35 | 0 11 | 21 6 | 2 9 | 21 52 | 21 52 | 21 53 | 3 50 | 2 26 |
| S 27 | 8 11 | 21 3 | 2 18 | 0 41 | 2 29 | 18 40 | 0 16 | 26 26 | 2 57 | 17 36 | 0 34 | 15 56 | 1 59 | 0 24 | 0 41 | 16 34 | 0 11 | 21 6 | 2 9 | 21 52 | 21 52 | 21 52 | 3 51 | 2 26 |
| S 28 | 7s49 | 18s37 | 3n20 | 1n 2 | 2n42 | 18s24 | 0s19 | 26n25 | 2n56 | 17s32 | 0s34 | 15n57 | 1s59 | 0n25 | 0s41 | 16s34 | 0s11 | 21n 6 | 2s 9 | 21s51 | 21s51 | 21n51 | 3n52 | 2n26 |

Julian Day Number = 2333603.5, Delta T = 25.36 sec
Ecliptic obliquity = 23°28'49, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°13'58, Lahiri = 19°20'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## MARCH 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 37 21 | 11♓ 3'47 | 4♒57 | 26♓34 | 9♒58 | 0♋38 | 13♒ 5 | 20♉25 | 2♈41 | 14♒57 | 7°R52 | 9°R 1 | 9♐ 2 | 27♊12 | 4♈11 | M 1 |
| T 2 | 10 41 18 | 12° 3'50 | 19°18 | 26°R36 | 11°12 | 0°54 | 13°18 | 20°29 | 2°44 | 14°59 | 7♋51 | 8♐51 | 8°59 | 27°19 | 4°14 | T 2 |
| W 3 | 10 45 14 | 13° 3'52 | 3♓32 | 26°30 | 12°25 | 1°11 | 13°32 | 20°34 | 2°47 | 15° 1 | 7°51 | 8°39 | 8°56 | 27°26 | 4°17 | W 3 |
| T 4 | 10 49 11 | 14° 3'52 | 17°33 | 26°15 | 13°39 | 1°28 | 13°45 | 20°38 | 2°51 | 15° 3 | 7°51 | 8°26 | 8°53 | 27°32 | 4°21 | T 4 |
| F 5 | 10 53 7 | 15° 3'50 | 1♈16 | 25°52 | 14°52 | 1°46 | 13°58 | 20°43 | 2°54 | 15° 5 | 7°50 | 8°14 | 8°49 | 27°39 | 4°24 | F 5 |
| S 6 | 10 57 4 | 16° 3'45 | 14°37 | 25°20 | 16° 6 | 2° 4 | 14°12 | 20°48 | 2°57 | 15° 7 | 7°50 | 8° 4 | 8°46 | 27°45 | 4°28 | S 6 |
| S 7 | 11 1 1 | 17° 3'39 | 27°35 | 24°42 | 17°19 | 2°22 | 14°25 | 20°52 | 3° 1 | 15° 9 | 7°49 | 7°55 | 8°43 | 27°52 | 4°31 | S 7 |
| M 8 | 11 4 57 | 18° 3'31 | 10♉12 | 23°58 | 18°33 | 2°41 | 14°38 | 20°57 | 3° 4 | 15°11 | 7°49 | 7°50 | 8°40 | 27°59 | 4°35 | M 8 |
| T 9 | 11 8 54 | 19° 3'20 | 22°29 | 23°10 | 19°46 | 3° 0 | 14°51 | 21° 2 | 3° 7 | 15°13 | 7°49 | 7°47 | 8°37 | 28° 5 | 4°39 | T 9 |
| W10 | 11 12 50 | 20° 3'07 | 4♊32 | 22°17 | 21° 0 | 3°20 | 15° 4 | 21° 7 | 3°11 | 15°15 | 7°49 | 7°D46 | 8°33 | 28°12 | 4°42 | W10 |
| T 11 | 11 16 47 | 21° 2'52 | 16°25 | 21°22 | 22°14 | 3°40 | 15°17 | 21°12 | 3°14 | 15°17 | 7°48 | 7°R46 | 8°30 | 28°19 | 4°46 | T 11 |
| F 12 | 11 20 43 | 22° 2'35 | 28°13 | 20°26 | 23°27 | 4° 0 | 15°30 | 21°17 | 3°17 | 15°19 | 7°48 | 7°46 | 8°27 | 28°25 | 4°49 | F 12 |
| S 13 | 11 24 40 | 23° 2'16 | 10♋ 3 | 19°29 | 24°41 | 4°21 | 15°42 | 21°23 | 3°21 | 15°21 | 7°48 | 7°45 | 8°24 | 28°32 | 4°53 | S 13 |
| S 14 | 11 28 36 | 24° 1'54 | 21°58 | 18°34 | 25°54 | 4°42 | 15°55 | 21°28 | 3°24 | 15°23 | 7°48 | 7°42 | 8°21 | 28°39 | 4°57 | S 14 |
| M15 | 11 32 33 | 25° 1'30 | 4♌ 5 | 17°41 | 27° 8 | 5° 3 | 16° 8 | 21°33 | 3°28 | 15°25 | 7°47 | 7°36 | 8°18 | 28°45 | 5° 0 | M15 |
| T 16 | 11 36 30 | 26° 1'03 | 16°27 | 16°51 | 28°21 | 5°25 | 16°20 | 21°39 | 3°31 | 15°26 | 7°47 | 7°27 | 8°14 | 28°52 | 5° 4 | T 16 |
| W17 | 11 40 26 | 27° 0'35 | 29° 6 | 16° 6 | 29°35 | 5°46 | 16°33 | 21°44 | 3°34 | 15°28 | 7°47 | 7°17 | 8°11 | 28°59 | 5° 7 | W17 |
| T 18 | 11 44 23 | 28° 0'04 | 12♍ 4 | 15°24 | 0♓48 | 6° 9 | 16°45 | 21°50 | 3°38 | 15°30 | 7°47 | 7° 5 | 8° 8 | 29° 5 | 5°11 | T 18 |
| F 19 | 11 48 19 | 28°59'31 | 25°20 | 14°48 | 2° 2 | 6°31 | 16°58 | 21°56 | 3°41 | 15°32 | 7°47 | 6°53 | 8° 5 | 29°12 | 5°15 | F 19 |
| S 20 | 11 52 16 | 29°58'55 | 8♎53 | 14°18 | 3°16 | 6°54 | 17°10 | 22° 1 | 3°45 | 15°34 | 7°47 | 6°42 | 8° 2 | 29°19 | 5°18 | S 20 |
| S 21 | 11 56 12 | 0♈58'18 | 22°38 | 13°53 | 4°29 | 7°17 | 17°22 | 22° 7 | 3°48 | 15°35 | 7°D47 | 6°34 | 7°59 | 29°25 | 5°22 | S 21 |
| M22 | 12 0 9 | 1°57'39 | 6♏34 | 13°35 | 5°43 | 7°41 | 17°34 | 22°13 | 3°52 | 15°37 | 7°47 | 6°28 | 7°55 | 29°32 | 5°26 | M22 |
| T 23 | 12 4 5 | 2°56'58 | 20°36 | 13°22 | 6°56 | 8° 4 | 17°47 | 22°19 | 3°55 | 15°39 | 7°47 | 6°24 | 7°52 | 29°39 | 5°29 | T 23 |
| W24 | 12 8 2 | 3°56'16 | 4♐42 | 13°15 | 8°10 | 8°28 | 17°59 | 22°25 | 3°58 | 15°41 | 7°47 | 6°D23 | 7°49 | 29°45 | 5°33 | W24 |
| T 25 | 12 11 58 | 4°55'31 | 18°50 | 13°D14 | 9°23 | 8°52 | 18°11 | 22°31 | 4° 2 | 15°42 | 7°47 | 6°24 | 7°46 | 29°52 | 5°37 | T 25 |
| F 26 | 12 15 55 | 5°54'45 | 2♑58 | 13°18 | 10°37 | 9°17 | 18°22 | 22°37 | 4° 5 | 15°44 | 7°47 | 6°R24 | 7°43 | 29°59 | 5°40 | F 26 |
| S 27 | 12 19 52 | 6°53'57 | 17° 5 | 13°28 | 11°51 | 9°41 | 18°34 | 22°43 | 4° 9 | 15°45 | 7°47 | 6°24 | 7°39 | 0♋ 5 | 5°44 | S 27 |
| S 28 | 12 23 48 | 7°53'08 | 1♒ 9 | 13°43 | 13° 4 | 10° 6 | 18°46 | 22°50 | 4°12 | 15°47 | 7°48 | 6°22 | 7°36 | 0°12 | 5°48 | S 28 |
| M29 | 12 27 45 | 8°52'16 | 15°11 | 14° 3 | 14°18 | 10°32 | 18°57 | 22°56 | 4°16 | 15°49 | 7°48 | 6°17 | 7°33 | 0°19 | 5°51 | M29 |
| T 30 | 12 31 41 | 9°51'23 | 29° 6 | 14°27 | 15°32 | 10°57 | 19° 9 | 23° 2 | 4°19 | 15°50 | 7°48 | 6°10 | 7°30 | 0°25 | 5°55 | T 30 |
| W31 | 12 35 38 | 10♈50'28 | 12♓52 | 14♓57 | 16♓45 | 11♋23 | 19♒20 | 23♉ 9 | 4♈22 | 15♒52 | 7♋48 | 6♐ 1 | 7♐27 | 0♋32 | 5♈59 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 7s26 | 15s 1 | 4n10 | 1n17 | 2n54 | 18s 7 | 0s21 | 26n23 | 2n55 | 17s28 | 0s35 | 15n59 | 1s58 | 0n26 | 0s41 | 16s33 | 0s11 | 21n 6 | 2s 9 | 21s50 | 21s51 | 21n51 | 3n54 | 2n26 |
| T 2 | 7 3 | 10 34 | 4 43 | 1 28 | 3 5 | 17 50 | 0 24 | 26 22 | 2 53 | 17 25 | 0 35 | 16 0 | 1 58 | 0 28 | 0 41 | 16 32 | 0 11 | 21 6 | 2 9 | 21 49 | 21 50 | 21 50 | 3 55 | 2 26 |
| W 3 | 6 40 | 5 34 | 4 59 | 1 35 | 3 14 | 17 32 | 0 27 | 26 21 | 2 52 | 17 21 | 0 35 | 16 2 | 1 58 | 0 29 | 0 41 | 16 32 | 0 11 | 21 7 | 2 9 | 21 47 | 21 50 | 21 49 | 3 56 | 2 26 |
| T 4 | 6 17 | 0 22 | 4 57 | 1 36 | 3 23 | 17 14 | 0 30 | 26 19 | 2 51 | 17 17 | 0 35 | 16 3 | 1 58 | 0 30 | 0 41 | 16 31 | 0 11 | 21 7 | 2 8 | 21 45 | 21 49 | 21 48 | 3 57 | 2 26 |
| F 5 | 5 54 | 4n44 | 4 37 | 1 33 | 3 29 | 16 55 | 0 32 | 26 18 | 2 50 | 17 13 | 0 35 | 16 4 | 1 57 | 0 32 | 0 41 | 16 31 | 0 11 | 21 7 | 2 8 | 21 43 | 21 49 | 21 48 | 3 59 | 2 25 |
| S 6 | 5 30 | 9 29 | 4 2 | 1 25 | 3 34 | 16 36 | 0 35 | 26 16 | 2 48 | 17 10 | 0 35 | 16 6 | 1 57 | 0 33 | 0 41 | 16 30 | 0 11 | 21 7 | 2 8 | 21 41 | 21 48 | 21 47 | 4 0 | 2 25 |
| S 7 | 5 7 | 13 40 | 3 16 | 1 13 | 3 37 | 16 16 | 0 38 | 26 15 | 2 47 | 17 6 | 0 35 | 16 7 | 1 57 | 0 34 | 0 41 | 16 30 | 0 11 | 21 7 | 2 8 | 21 40 | 21 48 | 21 46 | 4 1 | 2 25 |
| M 8 | 4 44 | 17 8 | 2 21 | 0 57 | 3 39 | 15 56 | 0 40 | 26 13 | 2 46 | 17 2 | 0 36 | 16 9 | 1 57 | 0 36 | 0 41 | 16 29 | 0 11 | 21 7 | 2 8 | 21 39 | 21 47 | 21 46 | 4 3 | 2 25 |
| T 9 | 4 20 | 19 43 | 1 20 | 0 37 | 3 38 | 15 35 | 0 43 | 26 12 | 2 45 | 16 59 | 0 36 | 16 10 | 1 57 | 0 37 | 0 41 | 16 28 | 0 11 | 21 7 | 2 8 | 21 39 | 21 47 | 21 45 | 4 4 | 2 25 |
| W10 | 3 57 | 21 22 | 0 17 | 0 14 | 3 35 | 15 14 | 0 45 | 26 10 | 2 44 | 16 55 | 0 36 | 16 12 | 1 56 | 0 38 | 0 41 | 16 28 | 0 11 | 21 7 | 2 8 | 21 39 | 21 46 | 21 44 | 4 5 | 2 25 |
| T 11 | 3 33 | 22 2 | 0s46 | 0s12 | 3 30 | 14 53 | 0 48 | 26 8 | 2 42 | 16 51 | 0 36 | 16 13 | 1 56 | 0 40 | 0 41 | 16 27 | 0 11 | 21 8 | 2 8 | 21 39 | 21 46 | 21 43 | 4 7 | 2 25 |
| F 12 | 3 10 | 21 42 | 1 46 | 0 41 | 3 24 | 14 31 | 0 50 | 26 6 | 2 41 | 16 48 | 0 36 | 16 15 | 1 56 | 0 41 | 0 41 | 16 27 | 0 11 | 21 8 | 2 8 | 21 39 | 21 45 | 21 43 | 4 8 | 2 25 |
| S 13 | 2 46 | 20 24 | 2 43 | 1 10 | 3 15 | 14 9 | 0 52 | 26 4 | 2 40 | 16 44 | 0 36 | 16 17 | 1 56 | 0 42 | 0 41 | 16 26 | 0 11 | 21 8 | 2 7 | 21 38 | 21 45 | 21 42 | 4 9 | 2 25 |
| S 14 | 2 22 | 18 12 | 3 32 | 1 41 | 3 5 | 13 46 | 0 55 | 26 3 | 2 39 | 16 40 | 0 36 | 16 18 | 1 55 | 0 44 | 0 41 | 16 26 | 0 11 | 21 8 | 2 7 | 21 38 | 21 44 | 21 41 | 4 11 | 2 24 |
| M15 | 1 59 | 15 10 | 4 13 | 2 12 | 2 54 | 13 23 | 0 57 | 26 1 | 2 38 | 16 37 | 0 37 | 16 20 | 1 55 | 0 45 | 0 41 | 16 25 | 0 11 | 21 8 | 2 7 | 21 37 | 21 44 | 21 40 | 4 12 | 2 24 |
| T 16 | 1 35 | 11 26 | 4 42 | 2 43 | 2 41 | 12 59 | 0 59 | 25 59 | 2 37 | 16 33 | 0 37 | 16 21 | 1 55 | 0 46 | 0 41 | 16 25 | 0 11 | 21 8 | 2 7 | 21 35 | 21 43 | 21 40 | 4 13 | 2 24 |
| W17 | 1 11 | 7 8 | 4 59 | 3 13 | 2 28 | 12 36 | 1 1 | 25 56 | 2 35 | 16 29 | 0 37 | 16 23 | 1 55 | 0 48 | 0 41 | 16 24 | 0 11 | 21 8 | 2 7 | 21 34 | 21 43 | 21 39 | 4 15 | 2 24 |
| T 18 | 0 48 | 2 24 | 5 1 | 3 42 | 2 14 | 12 11 | 1 3 | 25 54 | 2 34 | 16 26 | 0 37 | 16 25 | 1 54 | 0 49 | 0 41 | 16 23 | 0 11 | 21 8 | 2 7 | 21 32 | 21 42 | 21 38 | 4 16 | 2 24 |
| F 19 | 0 24 | 2s32 | 4 47 | 4 10 | 1 59 | 11 47 | 1 5 | 25 52 | 2 33 | 16 22 | 0 37 | 16 26 | 1 54 | 0 50 | 0 41 | 16 23 | 0 11 | 21 8 | 2 7 | 21 30 | 21 42 | 21 37 | 4 17 | 2 24 |
| S 20 | 0 0 | 7 27 | 4 17 | 4 36 | 1 44 | 11 22 | 1 7 | 25 50 | 2 32 | 16 19 | 0 37 | 16 28 | 1 54 | 0 52 | 0 41 | 16 22 | 0 11 | 21 9 | 2 7 | 21 28 | 21 41 | 21 36 | 4 19 | 2 24 |
| S 21 | 0n23 | 12 5 | 3 31 | 4 59 | 1 28 | 10 57 | 1 9 | 25 47 | 2 31 | 16 15 | 0 37 | 16 30 | 1 54 | 0 53 | 0 41 | 16 22 | 0 11 | 21 9 | 2 7 | 21 27 | 21 41 | 21 36 | 4 20 | 2 24 |
| M22 | 0 47 | 16 7 | 2 32 | 5 21 | 1 13 | 10 32 | 1 11 | 25 45 | 2 30 | 16 11 | 0 38 | 16 31 | 1 54 | 0 55 | 0 41 | 16 21 | 0 11 | 21 9 | 2 6 | 21 25 | 21 40 | 21 35 | 4 22 | 2 24 |
| T 23 | 1 10 | 19 16 | 1 23 | 5 40 | 0 57 | 10 6 | 1 12 | 25 42 | 2 29 | 16 8 | 0 38 | 16 33 | 1 53 | 0 56 | 0 41 | 16 21 | 0 11 | 21 9 | 2 6 | 21 25 | 21 40 | 21 34 | 4 23 | 2 24 |
| W24 | 1 34 | 21 16 | 0 9 | 5 57 | 0 42 | 9 40 | 1 14 | 25 40 | 2 28 | 16 4 | 0 38 | 16 35 | 1 53 | 0 57 | 0 41 | 16 20 | 0 11 | 21 9 | 2 6 | 21 25 | 21 39 | 21 33 | 4 24 | 2 24 |
| T 25 | 1 58 | 21 55 | 1n 6 | 6 11 | 0 27 | 9 14 | 1 16 | 25 37 | 2 26 | 16 1 | 0 38 | 16 37 | 1 53 | 0 59 | 0 41 | 16 20 | 0 11 | 21 9 | 2 6 | 21 25 | 21 39 | 21 32 | 4 26 | 2 24 |
| F 26 | 2 21 | 21 10 | 2 17 | 6 23 | 0 13 | 8 47 | 1 17 | 25 34 | 2 25 | 15 57 | 0 38 | 16 38 | 1 53 | 1 0 | 0 41 | 16 20 | 0 11 | 21 9 | 2 6 | 21 25 | 21 38 | 21 32 | 4 27 | 2 24 |
| S 27 | 2 45 | 19 5 | 3 20 | 6 32 | 0s 1 | 8 20 | 1 19 | 25 31 | 2 24 | 15 54 | 0 38 | 16 40 | 1 53 | 1 1 | 0 41 | 16 19 | 0 11 | 21 9 | 2 6 | 21 25 | 21 37 | 21 31 | 4 29 | 2 23 |
| S 28 | 3 8 | 15 52 | 4 10 | 6 39 | 0 15 | 7 53 | 1 20 | 25 29 | 2 23 | 15 50 | 0 39 | 16 42 | 1 52 | 1 3 | 0 41 | 16 19 | 0 11 | 21 9 | 2 6 | 21 24 | 21 37 | 21 30 | 4 30 | 2 23 |
| M29 | 3 31 | 11 46 | 4 45 | 6 43 | 0 28 | 7 26 | 1 21 | 25 26 | 2 22 | 15 47 | 0 39 | 16 44 | 1 52 | 1 4 | 0 41 | 16 18 | 0 11 | 21 10 | 2 6 | 21 24 | 21 36 | 21 29 | 4 31 | 2 23 |
| T 30 | 3 55 | 7 4 | 5 3 | 6 45 | 0 40 | 6 59 | 1 22 | 25 22 | 2 21 | 15 43 | 0 39 | 16 45 | 1 52 | 1 6 | 0 41 | 16 18 | 0 11 | 21 10 | 2 6 | 21 22 | 21 36 | 21 28 | 4 33 | 2 23 |
| W31 | 4n18 | 2s 4 | 5n 3 | 6s45 | 0s52 | 6s31 | 1s24 | 25n19 | 2n20 | 15s40 | 0s39 | 16n47 | 1s52 | 1n 7 | 0s41 | 16s17 | 0s11 | 21n10 | 2s 6 | 21s21 | 21s35 | 21n27 | 4n34 | 2n23 |

Julian Day Number = 2333631.5, Delta T = 25.31 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'02, Lahiri = 19°21'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## APRIL 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 39 34 | 11♈49'30 | 26♓27 | 15♓30 | 17♓59 | 11♋48 | 19♒32 | 23♉15 | 4♈26 | 15♒53 | 7♋48 | 5°R52 | 7♐24 | 0♋38 | 6♈ 2 | T 1 |
| F 2 | 12 43 31 | 12°48'31 | 9♈47 | 16° 8 | 19°12 | 12°15 | 19°43 | 23°22 | 4°29 | 15°55 | 7°49 | 5♐43 | 7°20 | 0°45 | 6° 6 | F 2 |
| S 3 | 12 47 27 | 13°47'30 | 22°51 | 16°49 | 20°26 | 12°41 | 19°54 | 23°28 | 4°33 | 15°56 | 7°49 | 5°35 | 7°17 | 0°52 | 6°10 | S 3 |
| S 4 | 12 51 24 | 14°46'27 | 5♉37 | 17°34 | 21°40 | 13° 7 | 20° 5 | 23°35 | 4°36 | 15°57 | 7°49 | 5°29 | 7°14 | 0°58 | 6°13 | S 4 |
| M 5 | 12 55 21 | 15°45'21 | 18° 6 | 18°23 | 22°53 | 13°34 | 20°16 | 23°42 | 4°39 | 15°59 | 7°50 | 5°25 | 7°11 | 1° 5 | 6°17 | M 5 |
| T 6 | 12 59 17 | 16°44'14 | 0♊20 | 19°15 | 24° 7 | 14° 1 | 20°27 | 23°48 | 4°43 | 16° 0 | 7°50 | 5°D23 | 7° 8 | 1°12 | 6°20 | T 6 |
| W 7 | 13 3 14 | 17°43'04 | 12°21 | 20° 9 | 25°20 | 14°28 | 20°38 | 23°55 | 4°46 | 16° 1 | 7°50 | 5°23 | 7° 4 | 1°18 | 6°24 | W 7 |
| T 8 | 13 7 10 | 18°41'52 | 24°14 | 21° 7 | 26°34 | 14°55 | 20°49 | 24° 2 | 4°50 | 16° 3 | 7°51 | 5°24 | 7° 1 | 1°25 | 6°28 | T 8 |
| F 9 | 13 11 7 | 19°40'38 | 6♋ 3 | 22° 8 | 27°48 | 15°23 | 20°59 | 24° 9 | 4°53 | 16° 4 | 7°51 | 5°26 | 6°58 | 1°32 | 6°31 | F 9 |
| S 10 | 13 15 3 | 20°39'22 | 17°53 | 23°12 | 29° 1 | 15°51 | 21°10 | 24°16 | 4°56 | 16° 5 | 7°52 | 5°R27 | 6°55 | 1°38 | 6°35 | S 10 |
| S 11 | 13 19 0 | 21°38'03 | 29°50 | 24°18 | 0♈15 | 16°18 | 21°20 | 24°23 | 5° 0 | 16° 6 | 7°52 | 5°26 | 6°52 | 1°45 | 6°38 | S 11 |
| M12 | 13 22 56 | 22°36'42 | 11♌58 | 25°26 | 1°28 | 16°46 | 21°30 | 24°30 | 5° 3 | 16° 8 | 7°53 | 5°24 | 6°49 | 1°52 | 6°42 | M12 |
| T 13 | 13 26 53 | 23°35'19 | 24°22 | 26°37 | 2°42 | 17°15 | 21°40 | 24°37 | 5° 6 | 16° 9 | 7°53 | 5°20 | 6°45 | 1°58 | 6°46 | T 13 |
| W14 | 13 30 50 | 24°33'54 | 7♍ 5 | 27°50 | 3°56 | 17°43 | 21°50 | 24°44 | 5° 9 | 16°10 | 7°54 | 5°15 | 6°42 | 2° 5 | 6°49 | W14 |
| T 15 | 13 34 46 | 25°32'26 | 20°10 | 29° 6 | 5° 9 | 18°12 | 22° 0 | 24°51 | 5°13 | 16°11 | 7°54 | 5° 9 | 6°39 | 2°12 | 6°53 | T 15 |
| F 16 | 13 38 43 | 26°30'56 | 3♎38 | 0♈23 | 6°23 | 18°40 | 22°10 | 24°58 | 5°16 | 16°12 | 7°55 | 5° 3 | 6°36 | 2°18 | 6°56 | F 16 |
| S 17 | 13 42 39 | 27°29'25 | 17°28 | 1°43 | 7°36 | 19° 9 | 22°20 | 25° 5 | 5°19 | 16°13 | 7°56 | 4°57 | 6°33 | 2°25 | 7° 0 | S 17 |
| S 18 | 13 46 36 | 28°27'51 | 1♏35 | 3° 5 | 8°50 | 19°38 | 22°29 | 25°13 | 5°22 | 16°14 | 7°56 | 4°52 | 6°30 | 2°32 | 7° 3 | S 18 |
| M19 | 13 50 32 | 29°26'16 | 15°56 | 4°29 | 10° 3 | 20° 7 | 22°39 | 25°20 | 5°26 | 16°15 | 7°57 | 4°49 | 6°26 | 2°38 | 7° 6 | M19 |
| T 20 | 13 54 29 | 0♉24'39 | 0♐25 | 5°54 | 11°17 | 20°37 | 22°48 | 25°27 | 5°29 | 16°16 | 7°58 | 4°D48 | 6°23 | 2°45 | 7°10 | T 20 |
| W21 | 13 58 25 | 1°23'00 | 14°56 | 7°22 | 12°31 | 21° 6 | 22°57 | 25°35 | 5°32 | 16°17 | 7°58 | 4°48 | 6°20 | 2°52 | 7°13 | W21 |
| T 22 | 14 2 22 | 2°21'19 | 29°25 | 8°52 | 13°44 | 21°36 | 23° 6 | 25°42 | 5°35 | 16°18 | 7°59 | 4°49 | 6°17 | 2°58 | 7°17 | T 22 |
| F 23 | 14 6 19 | 3°19'37 | 13♑48 | 10°23 | 14°58 | 22° 5 | 23°15 | 25°49 | 5°38 | 16°19 | 8° 0 | 4°51 | 6°14 | 3° 5 | 7°20 | F 23 |
| S 24 | 14 10 15 | 4°17'54 | 28° 1 | 11°57 | 16°11 | 22°35 | 23°24 | 25°57 | 5°41 | 16°19 | 8° 0 | 4°R51 | 6°10 | 3°12 | 7°23 | S 24 |
| S 25 | 14 14 12 | 5°16'09 | 12♒ 2 | 13°32 | 17°25 | 23° 5 | 23°33 | 26° 4 | 5°45 | 16°20 | 8° 1 | 4°51 | 6° 7 | 3°18 | 7°27 | S 25 |
| M26 | 14 18 8 | 6°14'22 | 25°52 | 15° 9 | 18°38 | 23°35 | 23°41 | 26°12 | 5°48 | 16°21 | 8° 2 | 4°50 | 6° 4 | 3°25 | 7°30 | M26 |
| T 27 | 14 22 5 | 7°12'34 | 9♓29 | 16°48 | 19°52 | 24° 5 | 23°50 | 26°19 | 5°51 | 16°22 | 8° 3 | 4°48 | 6° 1 | 3°32 | 7°33 | T 27 |
| W28 | 14 26 1 | 8°10'44 | 22°52 | 18°29 | 21° 6 | 24°36 | 23°58 | 26°27 | 5°54 | 16°22 | 8° 4 | 4°44 | 5°58 | 3°38 | 7°37 | W28 |
| T 29 | 14 29 58 | 9° 8'53 | 6♈ 2 | 20°12 | 22°19 | 25° 6 | 24° 6 | 26°34 | 5°57 | 16°23 | 8° 5 | 4°40 | 5°55 | 3°45 | 7°40 | T 29 |
| F 30 | 14 33 54 | 10♉ 7'00 | 18♈58 | 21♈56 | 23♈33 | 25♋37 | 24♒14 | 26♉42 | 6♈ 0 | 16♒24 | 8♋ 5 | 4♐36 | 5♐51 | 3♋52 | 7♈43 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n41 | 2n58 | 4n46 | 6s42 | 1s 4 | 6s 4 | 1s25 | 25n16 | 2n19 | 15s37 | 0s39 | 16n49 | 1s52 | 1n 8 | 0s41 | 16s17 | 0s11 | 21n10 | 2s 5 | 21s19 | 21s35 | 21n27 | 4n36 | 2n23 |
| F 2 | 5 4 | 7 46 | 4 14 | 6 37 | 1 14 | 5 36 | 1 26 | 25 12 | 2 18 | 15 33 | 0 40 | 16 51 | 1 52 | 1 10 | 0 41 | 16 16 | 0 11 | 21 10 | 2 5 | 21 18 | 21 34 | 21 26 | 4 37 | 2 23 |
| S 3 | 5 27 | 12 7 | 3 28 | 6 30 | 1 24 | 5 8 | 1 27 | 25 9 | 2 17 | 15 30 | 0 40 | 16 53 | 1 51 | 1 11 | 0 41 | 16 16 | 0 11 | 21 10 | 2 5 | 21 16 | 21 34 | 21 25 | 4 38 | 2 23 |
| S 4 | 5 50 | 15 50 | 2 33 | 6 22 | 1 34 | 4 39 | 1 28 | 25 5 | 2 16 | 15 27 | 0 40 | 16 54 | 1 51 | 1 12 | 0 41 | 16 16 | 0 11 | 21 10 | 2 5 | 21 15 | 21 33 | 21 24 | 4 40 | 2 23 |
| M 5 | 6 13 | 18 43 | 1 32 | 6 11 | 1 43 | 4 11 | 1 28 | 25 2 | 2 15 | 15 23 | 0 40 | 16 56 | 1 51 | 1 14 | 0 41 | 16 15 | 0 11 | 21 10 | 2 5 | 21 15 | 21 33 | 21 23 | 4 41 | 2 23 |
| T 6 | 6 35 | 20 42 | 0 27 | 5 58 | 1 51 | 3 42 | 1 29 | 24 58 | 2 14 | 15 20 | 0 40 | 16 58 | 1 51 | 1 15 | 0 41 | 16 15 | 0 11 | 21 10 | 2 5 | 21 14 | 21 32 | 21 22 | 4 43 | 2 23 |
| W 7 | 6 58 | 21 42 | 0s38 | 5 43 | 1 59 | 3 14 | 1 30 | 24 54 | 2 13 | 15 17 | 0 40 | 17 0 | 1 51 | 1 16 | 0 41 | 16 14 | 0 11 | 21 10 | 2 5 | 21 14 | 21 32 | 21 21 | 4 44 | 2 23 |
| T 8 | 7 20 | 21 41 | 1 40 | 5 27 | 2 6 | 2 45 | 1 31 | 24 50 | 2 12 | 15 13 | 0 41 | 17 2 | 1 50 | 1 18 | 0 41 | 16 14 | 0 11 | 21 10 | 2 5 | 21 14 | 21 31 | 21 21 | 4 45 | 2 23 |
| F 9 | 7 43 | 20 42 | 2 38 | 5 9 | 2 12 | 2 16 | 1 31 | 24 46 | 2 11 | 15 10 | 0 41 | 17 4 | 1 50 | 1 19 | 0 41 | 16 14 | 0 11 | 21 11 | 2 5 | 21 15 | 21 31 | 21 20 | 4 47 | 2 23 |
| S 10 | 8 5 | 18 49 | 3 30 | 4 49 | 2 18 | 1 47 | 1 32 | 24 41 | 2 10 | 15 7 | 0 41 | 17 5 | 1 50 | 1 20 | 0 41 | 16 13 | 0 11 | 21 11 | 2 4 | 21 15 | 21 30 | 21 19 | 4 48 | 2 23 |
| S 11 | 8 27 | 16 6 | 4 13 | 4 28 | 2 23 | 1 18 | 1 32 | 24 37 | 2 9 | 15 4 | 0 41 | 17 7 | 1 50 | 1 22 | 0 41 | 16 13 | 0 11 | 21 11 | 2 4 | 21 15 | 21 30 | 21 18 | 4 49 | 2 23 |
| M12 | 8 49 | 12 40 | 4 45 | 4 5 | 2 28 | 0 49 | 1 32 | 24 33 | 2 8 | 15 1 | 0 41 | 17 9 | 1 50 | 1 23 | 0 41 | 16 13 | 0 11 | 21 11 | 2 4 | 21 14 | 21 29 | 21 17 | 4 51 | 2 23 |
| T 13 | 9 10 | 8 38 | 5 4 | 3 40 | 2 32 | 0 20 | 1 33 | 24 28 | 2 7 | 14 58 | 0 42 | 17 11 | 1 50 | 1 24 | 0 41 | 16 12 | 0 11 | 21 11 | 2 4 | 21 14 | 21 29 | 21 16 | 4 52 | 2 23 |
| W14 | 9 32 | 4 8 | 5 10 | 3 14 | 2 35 | 0n 9 | 1 33 | 24 23 | 2 6 | 14 55 | 0 42 | 17 13 | 1 50 | 1 26 | 0 41 | 16 12 | 0 11 | 21 11 | 2 4 | 21 13 | 21 28 | 21 15 | 4 54 | 2 23 |
| T 15 | 9 53 | 0s42 | 5 0 | 2 47 | 2 38 | 0 38 | 1 33 | 24 19 | 2 5 | 14 52 | 0 42 | 17 15 | 1 49 | 1 27 | 0 41 | 16 12 | 0 11 | 21 11 | 2 4 | 21 12 | 21 27 | 21 14 | 4 55 | 2 23 |
| F 16 | 10 15 | 5 37 | 4 33 | 2 18 | 2 41 | 1 7 | 1 33 | 24 14 | 2 4 | 14 49 | 0 42 | 17 16 | 1 49 | 1 28 | 0 41 | 16 11 | 0 11 | 21 11 | 2 4 | 21 11 | 21 27 | 21 13 | 4 56 | 2 23 |
| S 17 | 10 36 | 10 24 | 3 49 | 1 48 | 2 42 | 1 36 | 1 33 | 24 9 | 2 3 | 14 46 | 0 42 | 17 18 | 1 49 | 1 29 | 0 41 | 16 11 | 0 12 | 21 11 | 2 4 | 21 9 | 21 26 | 21 13 | 4 58 | 2 23 |
| S 18 | 10 57 | 14 43 | 2 51 | 1 16 | 2 43 | 2 5 | 1 33 | 24 4 | 2 3 | 14 43 | 0 43 | 17 20 | 1 49 | 1 31 | 0 41 | 16 11 | 0 12 | 21 11 | 2 4 | 21 9 | 21 26 | 21 12 | 4 59 | 2 23 |
| M19 | 11 18 | 18 15 | 1 41 | 0 44 | 2 44 | 2 34 | 1 33 | 23 58 | 2 2 | 14 40 | 0 43 | 17 22 | 1 49 | 1 32 | 0 41 | 16 11 | 0 12 | 21 11 | 2 3 | 21 8 | 21 25 | 21 11 | 5 0 | 2 22 |
| T 20 | 11 38 | 20 40 | 0 24 | 0 10 | 2 44 | 3 3 | 1 33 | 23 53 | 2 1 | 14 37 | 0 43 | 17 24 | 1 49 | 1 33 | 0 41 | 16 10 | 0 12 | 21 11 | 2 3 | 21 8 | 21 25 | 21 10 | 5 2 | 2 22 |
| W21 | 11 59 | 21 43 | 0n55 | 0n26 | 2 44 | 3 32 | 1 32 | 23 48 | 2 0 | 14 34 | 0 43 | 17 26 | 1 49 | 1 34 | 0 41 | 16 10 | 0 12 | 21 11 | 2 3 | 21 8 | 21 24 | 21 9 | 5 3 | 2 22 |
| T 22 | 12 19 | 21 18 | 2 11 | 1 2 | 2 42 | 4 1 | 1 32 | 23 42 | 1 59 | 14 31 | 0 43 | 17 28 | 1 48 | 1 36 | 0 41 | 16 10 | 0 12 | 21 11 | 2 3 | 21 8 | 21 24 | 21 8 | 5 4 | 2 22 |
| F 23 | 12 39 | 19 30 | 3 17 | 1 39 | 2 41 | 4 30 | 1 32 | 23 36 | 1 58 | 14 29 | 0 44 | 17 29 | 1 48 | 1 37 | 0 41 | 16 10 | 0 12 | 21 11 | 2 3 | 21 8 | 21 23 | 21 7 | 5 6 | 2 22 |
| S 24 | 12 58 | 16 30 | 4 11 | 2 18 | 2 39 | 4 59 | 1 31 | 23 31 | 1 57 | 14 26 | 0 44 | 17 31 | 1 48 | 1 38 | 0 41 | 16 9 | 0 12 | 21 12 | 2 3 | 21 9 | 21 23 | 21 6 | 5 7 | 2 22 |
| S 25 | 13 18 | 12 35 | 4 49 | 2 57 | 2 36 | 5 27 | 1 30 | 23 25 | 1 56 | 14 23 | 0 44 | 17 33 | 1 48 | 1 39 | 0 41 | 16 9 | 0 12 | 21 12 | 2 3 | 21 9 | 21 22 | 21 5 | 5 8 | 2 22 |
| M26 | 13 37 | 8 3 | 5 10 | 3 38 | 2 33 | 5 56 | 1 30 | 23 19 | 1 55 | 14 21 | 0 44 | 17 35 | 1 48 | 1 41 | 0 41 | 16 9 | 0 12 | 21 12 | 2 3 | 21 8 | 21 21 | 21 4 | 5 10 | 2 22 |
| T 27 | 13 57 | 3 12 | 5 12 | 4 19 | 2 29 | 6 24 | 1 29 | 23 12 | 1 54 | 14 18 | 0 44 | 17 37 | 1 48 | 1 42 | 0 41 | 16 9 | 0 12 | 21 12 | 2 3 | 21 8 | 21 21 | 21 3 | 5 11 | 2 22 |
| W28 | 14 15 | 1n44 | 4 58 | 5 2 | 2 25 | 6 53 | 1 28 | 23 6 | 1 54 | 14 15 | 0 45 | 17 39 | 1 48 | 1 43 | 0 41 | 16 9 | 0 12 | 21 12 | 2 3 | 21 7 | 21 20 | 21 2 | 5 12 | 2 22 |
| T 29 | 14 34 | 6 30 | 4 28 | 5 45 | 2 20 | 7 21 | 1 28 | 23 0 | 1 53 | 14 13 | 0 45 | 17 41 | 1 48 | 1 44 | 0 41 | 16 8 | 0 12 | 21 12 | 2 2 | 21 6 | 21 20 | 21 1 | 5 14 | 2 22 |
| F 30 | 14n53 | 10n54 | 3n45 | 6n29 | 2s14 | 7n49 | 1s27 | 22n53 | 1n52 | 14s10 | 0s45 | 17n42 | 1s48 | 1n45 | 0s41 | 16s 8 | 0s12 | 21n12 | 2s 2 | 21s 6 | 21s19 | 21n 0 | 5n15 | 2n22 |

Julian Day Number = 2333662.5, Delta T = 25.26 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'06, Lahiri = 19°21'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## MAY 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 37 51 | 11♉ 5'06 | 1♉40 | 23♈43 | 24♈46 | 26♋ 8 | 24♒22 | 26♉50 | 6♈ 3 | 16♒24 | 8♋ 6 | 4°R33 | 5♐48 | 3♋58 | 7♈46 | S 1 |
| S 2 | 14 41 47 | 12° 3'10 | 14° 9 | 25°31 | 26° 0 | 26°39 | 24°30 | 26°57 | 6° 6 | 16°25 | 8° 7 | 4♐30 | 5°45 | 4° 5 | 7°50 | S 2 |
| M 3 | 14 45 44 | 13° 1'13 | 26°26 | 27°21 | 27°13 | 27°10 | 24°38 | 27° 5 | 6° 9 | 16°25 | 8° 8 | 4°29 | 5°42 | 4°12 | 7°53 | M 3 |
| T 4 | 14 49 41 | 13°59'14 | 8♊32 | 29°13 | 28°27 | 27°41 | 24°45 | 27°13 | 6°11 | 16°26 | 8° 9 | 4°D29 | 5°39 | 4°18 | 7°56 | T 4 |
| W 5 | 14 53 37 | 14°57'13 | 20°28 | 1♉ 7 | 29°41 | 28°12 | 24°53 | 27°20 | 6°14 | 16°26 | 8°10 | 4°30 | 5°36 | 4°25 | 7°59 | W 5 |
| T 6 | 14 57 34 | 15°55'10 | 2♋19 | 3° 3 | 0♉54 | 28°43 | 25° 0 | 27°28 | 6°17 | 16°27 | 8°11 | 4°31 | 5°32 | 4°32 | 8° 2 | T 6 |
| F 7 | 15 1 30 | 16°53'06 | 14° 8 | 5° 1 | 2° 8 | 29°15 | 25° 7 | 27°36 | 6°20 | 16°27 | 8°12 | 4°33 | 5°29 | 4°38 | 8° 5 | F 7 |
| S 8 | 15 5 27 | 17°51'00 | 25°58 | 7° 0 | 3°21 | 29°46 | 25°14 | 27°43 | 6°23 | 16°27 | 8°13 | 4°34 | 5°26 | 4°45 | 8° 8 | S 8 |
| S 9 | 15 9 23 | 18°48'52 | 7♌54 | 9° 1 | 4°35 | 0♌18 | 25°20 | 27°51 | 6°25 | 16°28 | 8°14 | 4°35 | 5°23 | 4°52 | 8°11 | S 9 |
| M10 | 15 13 20 | 19°46'42 | 20° 1 | 11° 4 | 5°48 | 0°50 | 25°27 | 27°59 | 6°28 | 16°28 | 8°15 | 4°R35 | 5°20 | 4°58 | 8°14 | M10 |
| T 11 | 15 17 17 | 20°44'31 | 2♍24 | 13° 9 | 7° 2 | 1°22 | 25°33 | 28° 7 | 6°31 | 16°28 | 8°16 | 4°35 | 5°16 | 5° 5 | 8°17 | T 11 |
| W12 | 15 21 13 | 21°42'18 | 15° 6 | 15°15 | 8°15 | 1°54 | 25°40 | 28°14 | 6°34 | 16°29 | 8°18 | 4°34 | 5°13 | 5°12 | 8°20 | W12 |
| T 13 | 15 25 10 | 22°40'03 | 28°11 | 17°22 | 9°29 | 2°26 | 25°46 | 28°22 | 6°36 | 16°29 | 8°19 | 4°33 | 5°10 | 5°18 | 8°23 | T 13 |
| F 14 | 15 29 6 | 23°37'46 | 11♎41 | 19°31 | 10°42 | 2°58 | 25°52 | 28°30 | 6°39 | 16°29 | 8°20 | 4°31 | 5° 7 | 5°25 | 8°25 | F 14 |
| S 15 | 15 33 3 | 24°35'28 | 25°36 | 21°40 | 11°56 | 3°30 | 25°58 | 28°38 | 6°41 | 16°29 | 8°21 | 4°30 | 5° 4 | 5°32 | 8°28 | S 15 |
| S 16 | 15 36 59 | 25°33'08 | 9♏55 | 23°51 | 13° 9 | 4° 3 | 26° 3 | 28°45 | 6°44 | 16°29 | 8°22 | 4°29 | 5° 1 | 5°38 | 8°31 | S 16 |
| M17 | 15 40 56 | 26°30'48 | 24°33 | 26° 2 | 14°23 | 4°35 | 26° 9 | 28°53 | 6°46 | 16°29 | 8°23 | 4°29 | 4°57 | 5°45 | 8°34 | M17 |
| T 18 | 15 44 52 | 27°28'25 | 9♐23 | 28°14 | 15°37 | 5° 8 | 26°14 | 29° 1 | 6°49 | 16°29 | 8°24 | 4°D29 | 4°54 | 5°52 | 8°36 | T 18 |
| W19 | 15 48 49 | 28°26'02 | 24°19 | 0♊25 | 16°50 | 5°40 | 26°19 | 29° 9 | 6°51 | 16°R29 | 8°26 | 4°29 | 4°51 | 5°58 | 8°39 | W19 |
| T 20 | 15 52 46 | 29°23'38 | 9♑12 | 2°37 | 18° 4 | 6°13 | 26°24 | 29°17 | 6°54 | 16°29 | 8°27 | 4°29 | 4°48 | 6° 5 | 8°42 | T 20 |
| F 21 | 15 56 42 | 0♊21'12 | 23°56 | 4°48 | 19°17 | 6°46 | 26°29 | 29°24 | 6°56 | 16°29 | 8°28 | 4°30 | 4°45 | 6°12 | 8°44 | F 21 |
| S 22 | 16 0 39 | 1°18'46 | 8♒24 | 6°58 | 20°31 | 7°19 | 26°34 | 29°32 | 6°58 | 16°29 | 8°29 | 4°30 | 4°42 | 6°18 | 8°47 | S 22 |
| S 23 | 16 4 35 | 2°16'19 | 22°34 | 9° 8 | 21°44 | 7°52 | 26°38 | 29°40 | 7° 1 | 16°29 | 8°31 | 4°30 | 4°38 | 6°25 | 8°49 | S 23 |
| M24 | 16 8 32 | 3°13'50 | 6♓23 | 11°16 | 22°58 | 8°25 | 26°42 | 29°48 | 7° 3 | 16°29 | 8°32 | 4°R30 | 4°35 | 6°32 | 8°52 | M24 |
| T 25 | 16 12 28 | 4°11'21 | 19°52 | 13°23 | 24°11 | 8°58 | 26°46 | 29°56 | 7° 5 | 16°29 | 8°33 | 4°D30 | 4°32 | 6°38 | 8°54 | T 25 |
| W26 | 16 16 25 | 5° 8'51 | 3♈ 2 | 15°28 | 25°25 | 9°31 | 26°50 | 0♊ 3 | 7° 7 | 16°28 | 8°34 | 4°30 | 4°29 | 6°45 | 8°56 | W26 |
| T 27 | 16 20 21 | 6° 6'21 | 15°54 | 17°31 | 26°38 | 10° 4 | 26°54 | 0°11 | 7° 9 | 16°28 | 8°36 | 4°30 | 4°26 | 6°52 | 8°59 | T 27 |
| F 28 | 16 24 18 | 7° 3'49 | 28°31 | 19°33 | 27°52 | 10°38 | 26°58 | 0°19 | 7°12 | 16°28 | 8°37 | 4°30 | 4°22 | 6°58 | 9° 1 | F 28 |
| S 29 | 16 28 14 | 8° 1'17 | 10♉55 | 21°32 | 29° 5 | 11°11 | 27° 1 | 0°27 | 7°14 | 16°27 | 8°38 | 4°31 | 4°19 | 7° 5 | 9° 3 | S 29 |
| S 30 | 16 32 11 | 8°58'44 | 23° 8 | 23°29 | 0♊19 | 11°45 | 27° 4 | 0°35 | 7°16 | 16°27 | 8°40 | 4°31 | 4°16 | 7°12 | 9° 6 | S 30 |
| M31 | 16 36 8 | 9♊56'10 | 5♊11 | 25♊23 | 1♊33 | 12♌18 | 27♒ 7 | 0♊42 | 7♈18 | 16♒27 | 8♋41 | 4°R31 | 4♐13 | 7♋18 | 9♈ 8 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n11 | 14n45 | 2n51 | 7n14 | 2s 9 | 8n17 | 1s26 | 22n47 | 1n51 | 14s 8 | 0s45 | 17n44 | 1s47 | 1n46 | 0s41 | 16s 8 | 0s12 | 21n12 | 2s 2 | 21s 5 | 21s19 | 20n59 | 5n16 | 2n22 |
| S 2 | 15 29 | 17 52 | 1 50 | 7 59 | 2 2 | 8 44 | 1 25 | 22 40 | 1 50 | 14 6 | 0 46 | 17 46 | 1 47 | 1 48 | 0 41 | 16 8 | 0 12 | 21 12 | 2 2 | 21 5 | 21 18 | 20 58 | 5 17 | 2 22 |
| M 3 | 15 46 | 20 6 | 0 44 | 8 45 | 1 55 | 9 12 | 1 24 | 22 33 | 1 49 | 14 3 | 0 46 | 17 48 | 1 47 | 1 49 | 0 41 | 16 8 | 0 12 | 21 12 | 2 2 | 21 4 | 21 18 | 20 57 | 5 19 | 2 22 |
| T 4 | 16 4 | 21 24 | 0s22 | 9 32 | 1 48 | 9 39 | 1 23 | 22 26 | 1 48 | 14 1 | 0 46 | 17 50 | 1 47 | 1 50 | 0 41 | 16 8 | 0 12 | 21 12 | 2 2 | 21 4 | 21 17 | 20 56 | 5 20 | 2 22 |
| W 5 | 16 21 | 21 41 | 1 27 | 10 19 | 1 40 | 10 6 | 1 22 | 22 19 | 1 48 | 13 59 | 0 46 | 17 52 | 1 47 | 1 51 | 0 41 | 16 7 | 0 12 | 21 12 | 2 2 | 21 5 | 21 16 | 20 55 | 5 21 | 2 22 |
| T 6 | 16 38 | 21 0 | 2 28 | 11 6 | 1 32 | 10 33 | 1 20 | 22 12 | 1 47 | 13 57 | 0 47 | 17 53 | 1 47 | 1 52 | 0 41 | 16 7 | 0 12 | 21 12 | 2 2 | 21 5 | 21 16 | 20 54 | 5 22 | 2 22 |
| F 7 | 16 55 | 19 23 | 3 22 | 11 54 | 1 24 | 11 0 | 1 19 | 22 4 | 1 46 | 13 54 | 0 47 | 17 55 | 1 47 | 1 53 | 0 41 | 16 7 | 0 12 | 21 12 | 2 2 | 21 5 | 21 15 | 20 53 | 5 24 | 2 22 |
| S 8 | 17 11 | 16 56 | 4 8 | 12 42 | 1 15 | 11 26 | 1 18 | 21 57 | 1 45 | 13 52 | 0 47 | 17 57 | 1 47 | 1 54 | 0 41 | 16 7 | 0 12 | 21 12 | 2 2 | 21 5 | 21 15 | 20 52 | 5 25 | 2 22 |
| S 9 | 17 27 | 13 45 | 4 43 | 13 30 | 1 5 | 11 52 | 1 16 | 21 49 | 1 44 | 13 50 | 0 47 | 17 59 | 1 47 | 1 55 | 0 41 | 16 7 | 0 12 | 21 12 | 2 1 | 21 6 | 21 14 | 20 51 | 5 26 | 2 22 |
| M10 | 17 43 | 9 59 | 5 7 | 14 18 | 0 56 | 12 18 | 1 15 | 21 41 | 1 44 | 13 48 | 0 47 | 18 1 | 1 47 | 1 56 | 0 41 | 16 7 | 0 12 | 21 12 | 2 1 | 21 6 | 21 14 | 20 50 | 5 27 | 2 22 |
| T 11 | 17 58 | 5 43 | 5 17 | 15 5 | 0 46 | 12 44 | 1 13 | 21 34 | 1 43 | 13 46 | 0 48 | 18 3 | 1 46 | 1 57 | 0 41 | 16 7 | 0 12 | 21 12 | 2 1 | 21 6 | 21 13 | 20 49 | 5 28 | 2 22 |
| W12 | 18 13 | 1 6 | 5 11 | 15 52 | 0 35 | 13 9 | 1 12 | 21 26 | 1 42 | 13 44 | 0 48 | 18 4 | 1 46 | 1 58 | 0 41 | 16 7 | 0 12 | 21 12 | 2 1 | 21 5 | 21 12 | 20 48 | 5 29 | 2 22 |
| T 13 | 18 28 | 3s43 | 4 50 | 16 39 | 0 25 | 13 34 | 1 10 | 21 18 | 1 41 | 13 43 | 0 48 | 18 6 | 1 46 | 1 59 | 0 41 | 16 7 | 0 12 | 21 12 | 2 1 | 21 5 | 21 12 | 20 47 | 5 31 | 2 23 |
| F 14 | 18 43 | 8 30 | 4 13 | 17 24 | 0 15 | 13 58 | 1 9 | 21 9 | 1 40 | 13 41 | 0 48 | 18 8 | 1 46 | 2 0 | 0 41 | 16 7 | 0 12 | 21 12 | 2 1 | 21 5 | 21 11 | 20 46 | 5 32 | 2 23 |
| S 15 | 18 57 | 13 0 | 3 19 | 18 9 | 0 4 | 14 23 | 1 7 | 21 1 | 1 40 | 13 39 | 0 49 | 18 10 | 1 46 | 2 1 | 0 41 | 16 7 | 0 12 | 21 12 | 2 1 | 21 5 | 21 11 | 20 45 | 5 33 | 2 23 |
| S 16 | 19 11 | 16 54 | 2 12 | 18 52 | 0n 7 | 14 47 | 1 5 | 20 53 | 1 39 | 13 37 | 0 49 | 18 11 | 1 46 | 2 2 | 0 42 | 16 7 | 0 12 | 21 12 | 2 1 | 21 4 | 21 10 | 20 44 | 5 34 | 2 23 |
| M17 | 19 24 | 19 49 | 0 55 | 19 34 | 0 17 | 15 10 | 1 4 | 20 44 | 1 38 | 13 36 | 0 49 | 18 13 | 1 46 | 2 3 | 0 42 | 16 7 | 0 12 | 21 12 | 2 1 | 21 4 | 21 10 | 20 43 | 5 35 | 2 23 |
| T 18 | 19 38 | 21 27 | 0n27 | 20 15 | 0 27 | 15 33 | 1 2 | 20 35 | 1 37 | 13 34 | 0 49 | 18 15 | 1 46 | 2 4 | 0 42 | 16 7 | 0 12 | 21 12 | 2 1 | 21 4 | 21 9 | 20 42 | 5 36 | 2 23 |
| W19 | 19 51 | 21 34 | 1 48 | 20 53 | 0 38 | 15 56 | 1 0 | 20 27 | 1 36 | 13 33 | 0 50 | 18 17 | 1 46 | 2 5 | 0 42 | 16 7 | 0 12 | 21 12 | 2 1 | 21 4 | 21 8 | 20 41 | 5 37 | 2 23 |
| T 20 | 20 3 | 20 9 | 3 1 | 21 30 | 0 48 | 16 19 | 0 58 | 20 18 | 1 36 | 13 31 | 0 50 | 18 18 | 1 46 | 2 6 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 4 | 21 8 | 20 40 | 5 38 | 2 23 |
| F 21 | 20 16 | 17 23 | 4 2 | 22 4 | 0 57 | 16 41 | 0 56 | 20 9 | 1 35 | 13 30 | 0 50 | 18 20 | 1 46 | 2 7 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 7 | 20 39 | 5 39 | 2 23 |
| S 22 | 20 27 | 13 36 | 4 45 | 22 36 | 1 6 | 17 2 | 0 54 | 19 59 | 1 34 | 13 28 | 0 51 | 18 22 | 1 46 | 2 8 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 7 | 20 38 | 5 40 | 2 23 |
| S 23 | 20 39 | 9 7 | 5 11 | 23 5 | 1 15 | 17 23 | 0 52 | 19 50 | 1 33 | 13 27 | 0 51 | 18 24 | 1 46 | 2 9 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 6 | 20 37 | 5 41 | 2 23 |
| M24 | 20 50 | 4 16 | 5 17 | 23 32 | 1 23 | 17 44 | 0 50 | 19 41 | 1 33 | 13 26 | 0 51 | 18 25 | 1 46 | 2 10 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 6 | 20 36 | 5 42 | 2 23 |
| T 25 | 21 1 | 0n41 | 5 6 | 23 56 | 1 30 | 18 4 | 0 48 | 19 31 | 1 32 | 13 25 | 0 51 | 18 27 | 1 46 | 2 11 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 5 | 20 35 | 5 43 | 2 23 |
| W26 | 21 12 | 5 28 | 4 39 | 24 18 | 1 37 | 18 24 | 0 46 | 19 22 | 1 31 | 13 24 | 0 52 | 18 29 | 1 46 | 2 12 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 4 | 20 34 | 5 44 | 2 23 |
| T 27 | 21 22 | 9 56 | 3 59 | 24 36 | 1 43 | 18 44 | 0 44 | 19 12 | 1 30 | 13 23 | 0 52 | 18 30 | 1 46 | 2 12 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 4 | 20 32 | 5 45 | 2 23 |
| F 28 | 21 32 | 13 52 | 3 7 | 24 52 | 1 49 | 19 2 | 0 42 | 19 2 | 1 29 | 13 22 | 0 52 | 18 32 | 1 46 | 2 13 | 0 42 | 16 7 | 0 12 | 21 12 | 2 0 | 21 5 | 21 3 | 20 31 | 5 46 | 2 23 |
| S 29 | 21 41 | 17 9 | 2 7 | 25 6 | 1 54 | 19 21 | 0 39 | 18 52 | 1 29 | 13 21 | 0 52 | 18 34 | 1 45 | 2 14 | 0 42 | 16 8 | 0 12 | 21 12 | 2 0 | 21 5 | 21 3 | 20 30 | 5 47 | 2 23 |
| S 30 | 21 50 | 19 36 | 1 3 | 25 17 | 1 58 | 19 39 | 0 37 | 18 42 | 1 28 | 13 20 | 0 53 | 18 35 | 1 45 | 2 15 | 0 42 | 16 8 | 0 12 | 21 12 | 2 0 | 21 5 | 21 2 | 20 29 | 5 48 | 2 23 |
| M31 | 21n59 | 21n 8 | 0s 4 | 25n25 | 2n 1 | 19n56 | 0s35 | 18n32 | 1n27 | 13s19 | 0s53 | 18n37 | 1s45 | 2n15 | 0s42 | 16s 8 | 0s12 | 21n12 | 2s 0 | 21s 5 | 21s 1 | 20n28 | 5n49 | 2n23 |

Julian Day Number = 2333692.5, Delta T = 25.21 sec
Ecliptic obliquity = 23°28'49, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'11, Lahiri = 19°21'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## JUNE 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 40 4 | 10♊53'35 | 17♊ 8 | 27♊16 | 2♊46 | 12♌52 | 27♒10 | 0♊50 | 7♈20 | 16°R26 | 8♋43 | 4°R31 | 4♐10 | 7♋25 | 9♈10 | T 1 |
| W 2 | 16 44 1 | 11°51'00 | 29° 0 | 29° 5 | 4° 0 | 13°26 | 27°13 | 0°58 | 7°21 | 16♒26 | 8°44 | 4♐30 | 4° 7 | 7°32 | 9°12 | W 2 |
| T 3 | 16 47 57 | 12°48'23 | 10♋49 | 0♋53 | 5°13 | 14° 0 | 27°16 | 1° 5 | 7°23 | 16°25 | 8°45 | 4°30 | 4° 3 | 7°38 | 9°14 | T 3 |
| F 4 | 16 51 54 | 13°45'45 | 22°38 | 2°37 | 6°27 | 14°34 | 27°18 | 1°13 | 7°25 | 16°25 | 8°47 | 4°28 | 4° 0 | 7°45 | 9°16 | F 4 |
| S 5 | 16 55 50 | 14°43'07 | 4♌29 | 4°19 | 7°41 | 15° 8 | 27°20 | 1°21 | 7°27 | 16°24 | 8°48 | 4°27 | 3°57 | 7°52 | 9°18 | S 5 |
| S 6 | 16 59 47 | 15°40'27 | 16°26 | 5°59 | 8°54 | 15°42 | 27°22 | 1°29 | 7°29 | 16°24 | 8°50 | 4°26 | 3°54 | 7°58 | 9°20 | S 6 |
| M 7 | 17 3 44 | 16°37'47 | 28°33 | 7°35 | 10° 8 | 16°16 | 27°24 | 1°36 | 7°30 | 16°23 | 8°51 | 4°25 | 3°51 | 8° 5 | 9°22 | M 7 |
| T 8 | 17 7 40 | 17°35'05 | 10♍54 | 9°10 | 11°21 | 16°50 | 27°25 | 1°44 | 7°32 | 16°23 | 8°52 | 4°24 | 3°48 | 8°12 | 9°23 | T 8 |
| W 9 | 17 11 37 | 18°32'23 | 23°33 | 10°41 | 12°35 | 17°24 | 27°26 | 1°51 | 7°34 | 16°22 | 8°54 | 4°D24 | 3°44 | 8°18 | 9°25 | W 9 |
| T 10 | 17 15 33 | 19°29'40 | 6♎33 | 12°10 | 13°49 | 17°59 | 27°28 | 1°59 | 7°35 | 16°21 | 8°55 | 4°24 | 3°41 | 8°25 | 9°27 | T 10 |
| F 11 | 17 19 30 | 20°26'56 | 19°57 | 13°36 | 15° 2 | 18°33 | 27°29 | 2° 7 | 7°37 | 16°21 | 8°57 | 4°25 | 3°38 | 8°32 | 9°29 | F 11 |
| S 12 | 17 23 26 | 21°24'11 | 3♏48 | 14°59 | 16°16 | 19° 8 | 27°29 | 2°14 | 7°38 | 16°20 | 8°58 | 4°27 | 3°35 | 8°38 | 9°30 | S 12 |
| S 13 | 17 27 23 | 22°21'25 | 18° 6 | 16°20 | 17°29 | 19°42 | 27°30 | 2°22 | 7°40 | 16°19 | 9° 0 | 4°28 | 3°32 | 8°45 | 9°32 | S 13 |
| M14 | 17 31 19 | 23°18'38 | 2♐47 | 17°37 | 18°43 | 20°17 | 27°30 | 2°29 | 7°41 | 16°18 | 9° 1 | 4°R28 | 3°28 | 8°52 | 9°33 | M14 |
| T 15 | 17 35 16 | 24°15'52 | 17°47 | 18°52 | 19°57 | 20°52 | 27°31 | 2°37 | 7°42 | 16°17 | 9° 3 | 4°28 | 3°25 | 8°58 | 9°35 | T 15 |
| W16 | 17 39 13 | 25°13'04 | 2♑57 | 20° 4 | 21°10 | 21°26 | 27°R31 | 2°44 | 7°44 | 16°17 | 9° 4 | 4°26 | 3°22 | 9° 5 | 9°36 | W16 |
| T 17 | 17 43 9 | 26°10'16 | 18° 8 | 21°13 | 22°24 | 22° 1 | 27°30 | 2°51 | 7°45 | 16°16 | 9° 6 | 4°24 | 3°19 | 9°12 | 9°38 | T 17 |
| F 18 | 17 47 6 | 27° 7'28 | 3♒11 | 22°19 | 23°37 | 22°36 | 27°30 | 2°59 | 7°46 | 16°15 | 9° 7 | 4°21 | 3°16 | 9°18 | 9°39 | F 18 |
| S 19 | 17 51 2 | 28° 4'40 | 17°56 | 23°22 | 24°51 | 23°11 | 27°30 | 3° 6 | 7°47 | 16°14 | 9° 9 | 4°18 | 3°13 | 9°25 | 9°40 | S 19 |
| S 20 | 17 54 59 | 29° 1'52 | 2♓19 | 24°22 | 26° 5 | 23°46 | 27°29 | 3°13 | 7°48 | 16°13 | 9°10 | 4°16 | 3° 9 | 9°32 | 9°41 | S 20 |
| M21 | 17 58 55 | 29°59'03 | 16°16 | 25°18 | 27°18 | 24°21 | 27°28 | 3°21 | 7°50 | 16°12 | 9°12 | 4°14 | 3° 6 | 9°38 | 9°43 | M21 |
| T 22 | 18 2 52 | 0♋56'15 | 29°46 | 26°11 | 28°32 | 24°56 | 27°27 | 3°28 | 7°51 | 16°11 | 9°13 | 4°D13 | 3° 3 | 9°45 | 9°44 | T 22 |
| W23 | 18 6 48 | 1°53'27 | 12♈52 | 27° 0 | 29°46 | 25°32 | 27°25 | 3°35 | 7°52 | 16°10 | 9°15 | 4°14 | 3° 0 | 9°52 | 9°45 | W23 |
| T 24 | 18 10 45 | 2°50'38 | 25°36 | 27°46 | 1♋ 0 | 26° 7 | 27°24 | 3°42 | 7°52 | 16° 9 | 9°16 | 4°15 | 2°57 | 9°58 | 9°46 | T 24 |
| F 25 | 18 14 42 | 3°47'50 | 8♉ 2 | 28°28 | 2°13 | 26°42 | 27°22 | 3°49 | 7°53 | 16° 8 | 9°18 | 4°17 | 2°53 | 10° 5 | 9°47 | F 25 |
| S 26 | 18 18 38 | 4°45'02 | 20°14 | 29° 6 | 3°27 | 27°18 | 27°20 | 3°57 | 7°54 | 16° 7 | 9°19 | 4°18 | 2°50 | 10°12 | 9°48 | S 26 |
| S 27 | 18 22 35 | 5°42'15 | 2♊15 | 29°41 | 4°41 | 27°53 | 27°18 | 4° 4 | 7°55 | 16° 6 | 9°21 | 4°R19 | 2°47 | 10°18 | 9°49 | S 27 |
| M28 | 18 26 31 | 6°39'27 | 14°10 | 0♌11 | 5°54 | 28°29 | 27°16 | 4°11 | 7°56 | 16° 4 | 9°22 | 4°19 | 2°44 | 10°25 | 9°49 | M28 |
| T 29 | 18 30 28 | 7°36'39 | 26° 0 | 0°37 | 7° 8 | 29° 4 | 27°13 | 4°18 | 7°56 | 16° 3 | 9°24 | 4°17 | 2°41 | 10°32 | 9°50 | T 29 |
| W30 | 18 34 24 | 8♋33'52 | 7♋49 | 0♌58 | 8♋22 | 29♌40 | 27♒11 | 4♊25 | 7♈57 | 16♒ 2 | 9♋25 | 4♐13 | 2♐38 | 10♋38 | 9♈51 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 7 | 21n42 | 1s 9 | 25n30 | 2n 3 | 20n13 | 0s33 | 18n22 | 1n26 | 13s18 | 0s53 | 18n38 | 1s45 | 2n16 | 0s42 | 16s 8 | 0s12 | 21n12 | 1s59 | 21s 5 | 21s 1 | 20n27 | 5n50 | 2n23 |
| W 2 | 22 15 | 21 17 | 2 12 | 25 34 | 2 5 | 20 29 | 0 31 | 18 11 | 1 26 | 13 18 | 0 53 | 18 40 | 1 45 | 2 17 | 0 42 | 16 8 | 0 12 | 21 12 | 1 59 | 21 5 | 21 0 | 20 26 | 5 51 | 2 23 |
| T 3 | 22 22 | 19 55 | 3 8 | 25 35 | 2 6 | 20 45 | 0 28 | 18 1 | 1 25 | 13 17 | 0 54 | 18 42 | 1 45 | 2 18 | 0 42 | 16 8 | 0 12 | 21 12 | 1 59 | 21 5 | 21 0 | 20 25 | 5 52 | 2 23 |
| F 4 | 22 29 | 17 41 | 3 56 | 25 33 | 2 6 | 21 0 | 0 26 | 17 50 | 1 24 | 13 17 | 0 54 | 18 43 | 1 45 | 2 18 | 0 42 | 16 8 | 0 12 | 21 12 | 1 59 | 21 4 | 20 59 | 20 24 | 5 52 | 2 23 |
| S 5 | 22 36 | 14 44 | 4 35 | 25 30 | 2 6 | 21 14 | 0 24 | 17 39 | 1 24 | 13 16 | 0 54 | 18 45 | 1 45 | 2 19 | 0 42 | 16 9 | 0 12 | 21 12 | 1 59 | 21 4 | 20 58 | 20 23 | 5 53 | 2 23 |
| S 6 | 22 42 | 11 8 | 5 1 | 25 25 | 2 4 | 21 28 | 0 21 | 17 29 | 1 23 | 13 16 | 0 55 | 18 46 | 1 45 | 2 20 | 0 42 | 16 9 | 0 12 | 21 12 | 1 59 | 21 4 | 20 58 | 20 21 | 5 54 | 2 23 |
| M 7 | 22 48 | 7 4 | 5 15 | 25 18 | 2 2 | 21 42 | 0 19 | 17 18 | 1 22 | 13 15 | 0 55 | 18 48 | 1 45 | 2 20 | 0 42 | 16 9 | 0 12 | 21 12 | 1 59 | 21 4 | 20 57 | 20 20 | 5 55 | 2 23 |
| T 8 | 22 54 | 2 38 | 5 15 | 25 9 | 1 59 | 21 54 | 0 17 | 17 7 | 1 21 | 13 15 | 0 55 | 18 49 | 1 45 | 2 21 | 0 42 | 16 9 | 0 12 | 21 12 | 1 59 | 21 3 | 20 57 | 20 19 | 5 55 | 2 23 |
| W 9 | 22 59 | 2s 1 | 4 59 | 24 58 | 1 56 | 22 7 | 0 14 | 16 55 | 1 21 | 13 15 | 0 55 | 18 51 | 1 45 | 2 22 | 0 42 | 16 9 | 0 12 | 21 12 | 1 59 | 21 3 | 20 56 | 20 18 | 5 56 | 2 24 |
| T 10 | 23 4 | 6 42 | 4 28 | 24 47 | 1 52 | 22 18 | 0 12 | 16 44 | 1 20 | 13 15 | 0 56 | 18 52 | 1 45 | 2 22 | 0 42 | 16 10 | 0 12 | 21 12 | 1 59 | 21 4 | 20 55 | 20 17 | 5 57 | 2 24 |
| F 11 | 23 8 | 11 14 | 3 42 | 24 33 | 1 47 | 22 29 | 0 9 | 16 33 | 1 19 | 13 15 | 0 56 | 18 54 | 1 45 | 2 23 | 0 42 | 16 10 | 0 12 | 21 12 | 1 59 | 21 4 | 20 55 | 20 16 | 5 58 | 2 24 |
| S 12 | 23 12 | 15 20 | 2 42 | 24 19 | 1 41 | 22 39 | 0 7 | 16 21 | 1 18 | 13 15 | 0 56 | 18 55 | 1 45 | 2 23 | 0 42 | 16 10 | 0 12 | 21 12 | 1 59 | 21 4 | 20 54 | 20 15 | 5 58 | 2 24 |
| S 13 | 23 16 | 18 41 | 1 29 | 24 3 | 1 35 | 22 49 | 0 5 | 16 10 | 1 18 | 13 15 | 0 56 | 18 57 | 1 45 | 2 24 | 0 42 | 16 10 | 0 13 | 21 12 | 1 59 | 21 4 | 20 54 | 20 13 | 5 59 | 2 24 |
| M14 | 23 19 | 20 54 | 0 9 | 23 46 | 1 28 | 22 58 | 0 2 | 15 58 | 1 17 | 13 15 | 0 57 | 18 58 | 1 45 | 2 24 | 0 42 | 16 11 | 0 13 | 21 12 | 1 58 | 21 4 | 20 53 | 20 12 | 6 0 | 2 24 |
| T 15 | 23 21 | 21 42 | 1n13 | 23 29 | 1 20 | 23 6 | 0n 0 | 15 46 | 1 16 | 13 15 | 0 57 | 19 0 | 1 45 | 2 25 | 0 42 | 16 11 | 0 13 | 21 12 | 1 58 | 21 4 | 20 52 | 20 11 | 6 0 | 2 24 |
| W16 | 23 24 | 20 56 | 2 31 | 23 10 | 1 12 | 23 14 | 0 2 | 15 34 | 1 16 | 13 15 | 0 57 | 19 1 | 1 45 | 2 25 | 0 42 | 16 11 | 0 13 | 21 12 | 1 58 | 21 4 | 20 52 | 20 10 | 6 1 | 2 24 |
| T 17 | 23 25 | 18 39 | 3 38 | 22 51 | 1 3 | 23 21 | 0 5 | 15 22 | 1 15 | 13 16 | 0 58 | 19 3 | 1 45 | 2 26 | 0 42 | 16 11 | 0 13 | 21 12 | 1 58 | 21 4 | 20 51 | 20 9 | 6 2 | 2 24 |
| F 18 | 23 27 | 15 6 | 4 30 | 22 31 | 0 54 | 23 27 | 0 7 | 15 10 | 1 14 | 13 16 | 0 58 | 19 4 | 1 45 | 2 26 | 0 42 | 16 12 | 0 13 | 21 12 | 1 58 | 21 3 | 20 51 | 20 8 | 6 2 | 2 24 |
| S 19 | 23 28 | 10 41 | 5 2 | 22 11 | 0 44 | 23 32 | 0 10 | 14 58 | 1 14 | 13 16 | 0 58 | 19 5 | 1 45 | 2 27 | 0 42 | 16 12 | 0 13 | 21 12 | 1 58 | 21 2 | 20 50 | 20 6 | 6 3 | 2 24 |
| S 20 | 23 29 | 5 46 | 5 14 | 21 50 | 0 33 | 23 37 | 0 12 | 14 46 | 1 13 | 13 17 | 0 58 | 19 7 | 1 45 | 2 27 | 0 42 | 16 12 | 0 13 | 21 12 | 1 58 | 21 2 | 20 49 | 20 5 | 6 3 | 2 24 |
| M21 | 23 29 | 0 42 | 5 8 | 21 29 | 0 22 | 23 41 | 0 14 | 14 34 | 1 12 | 13 18 | 0 59 | 19 8 | 1 45 | 2 28 | 0 43 | 16 13 | 0 13 | 21 12 | 1 58 | 21 2 | 20 49 | 20 4 | 6 4 | 2 24 |
| T 22 | 23 29 | 4n15 | 4 44 | 21 8 | 0 11 | 23 45 | 0 17 | 14 21 | 1 11 | 13 18 | 0 59 | 19 10 | 1 45 | 2 28 | 0 43 | 16 13 | 0 13 | 21 12 | 1 58 | 21 2 | 20 48 | 20 3 | 6 4 | 2 24 |
| W23 | 23 28 | 8 52 | 4 6 | 20 46 | 0s 1 | 23 48 | 0 19 | 14 9 | 1 11 | 13 19 | 0 59 | 19 11 | 1 45 | 2 28 | 0 43 | 16 13 | 0 13 | 21 12 | 1 58 | 21 2 | 20 48 | 20 2 | 6 5 | 2 24 |
| T 24 | 23 27 | 12 58 | 3 17 | 20 25 | 0 14 | 23 50 | 0 21 | 13 56 | 1 10 | 13 20 | 1 0 | 19 12 | 1 45 | 2 29 | 0 43 | 16 14 | 0 13 | 21 12 | 1 58 | 21 2 | 20 47 | 20 1 | 6 5 | 2 24 |
| F 25 | 23 26 | 16 24 | 2 19 | 20 3 | 0 27 | 23 51 | 0 24 | 13 43 | 1 9 | 13 21 | 1 0 | 19 13 | 1 45 | 2 29 | 0 43 | 16 14 | 0 13 | 21 12 | 1 58 | 21 2 | 20 46 | 19 59 | 6 6 | 2 24 |
| S 26 | 23 24 | 19 4 | 1 17 | 19 42 | 0 41 | 23 52 | 0 26 | 13 30 | 1 9 | 13 21 | 1 0 | 19 15 | 1 45 | 2 29 | 0 43 | 16 14 | 0 13 | 21 12 | 1 58 | 21 2 | 20 46 | 19 58 | 6 6 | 2 25 |
| S 27 | 23 21 | 20 50 | 0 11 | 19 22 | 0 55 | 23 52 | 0 28 | 13 18 | 1 8 | 13 22 | 1 0 | 19 16 | 1 45 | 2 30 | 0 43 | 16 15 | 0 13 | 21 12 | 1 58 | 21 3 | 20 45 | 19 57 | 6 6 | 2 25 |
| M28 | 23 19 | 21 39 | 0s54 | 19 1 | 1 9 | 23 51 | 0 30 | 13 5 | 1 7 | 13 23 | 1 1 | 19 17 | 1 46 | 2 30 | 0 43 | 16 15 | 0 13 | 21 12 | 1 58 | 21 2 | 20 44 | 19 56 | 6 7 | 2 25 |
| T 29 | 23 16 | 21 29 | 1 56 | 18 42 | 1 24 | 23 50 | 0 33 | 12 51 | 1 7 | 13 25 | 1 1 | 19 19 | 1 46 | 2 30 | 0 43 | 16 15 | 0 13 | 21 12 | 1 58 | 21 2 | 20 44 | 19 55 | 6 7 | 2 25 |
| W30 | 23n12 | 20n23 | 2s53 | 18n22 | 1s38 | 23n48 | 0n35 | 12n38 | 1n 6 | 13s26 | 1s 1 | 19n20 | 1s46 | 2n30 | 0s43 | 16s16 | 0s13 | 21n12 | 1s57 | 21s 1 | 20s43 | 19n53 | 6n 8 | 2n25 |

Julian Day Number = 2333723.5, Delta T = 25.16 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'15, Lahiri = 19°21'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## JULY 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 38 21 | 9♋31'04 | 19♋38 | 1♌16 | 9♋36 | 0♍16 | 27°R 8 | 4♊32 | 7♈58 | 16°R 1 | 9♋27 | 4°R 8 | 2♐34 | 10♋45 | 9♈52 | T 1 |
| F 2 | 18 42 17 | 10°28'17 | 1♌29 | 1°28 | 10°49 | 0°51 | 27♒ 5 | 4°38 | 7°58 | 16♒ 0 | 9°28 | 4♐ 2 | 2°31 | 10°52 | 9°52 | F 2 |
| S 3 | 18 46 14 | 11°25'29 | 13°25 | 1°36 | 12° 3 | 1°27 | 27° 2 | 4°45 | 7°59 | 15°58 | 9°30 | 3°55 | 2°28 | 10°58 | 9°53 | S 3 |
| S 4 | 18 50 11 | 12°22'42 | 25°27 | 1°R39 | 13°17 | 2° 3 | 26°58 | 4°52 | 7°59 | 15°57 | 9°31 | 3°48 | 2°25 | 11° 5 | 9°53 | S 4 |
| M 5 | 18 54 7 | 13°19'54 | 7♍38 | 1°38 | 14°31 | 2°39 | 26°55 | 4°59 | 8° 0 | 15°56 | 9°33 | 3°43 | 2°22 | 11°12 | 9°54 | M 5 |
| T 6 | 18 58 4 | 14°17'06 | 20° 1 | 1°32 | 15°45 | 3°15 | 26°51 | 5° 5 | 8° 0 | 15°54 | 9°34 | 3°38 | 2°19 | 11°18 | 9°54 | T 6 |
| W 7 | 19 2 0 | 15°14'19 | 2♎39 | 1°21 | 16°58 | 3°51 | 26°47 | 5°12 | 8° 0 | 15°53 | 9°36 | 3°36 | 2°15 | 11°25 | 9°54 | W 7 |
| T 8 | 19 5 57 | 16°11'31 | 15°35 | 1° 5 | 18°12 | 4°27 | 26°43 | 5°19 | 8° 1 | 15°52 | 9°38 | 3°D35 | 2°12 | 11°32 | 9°55 | T 8 |
| F 9 | 19 9 53 | 17° 8'44 | 28°52 | 0°45 | 19°26 | 5° 3 | 26°39 | 5°25 | 8° 1 | 15°50 | 9°39 | 3°36 | 2° 9 | 11°38 | 9°55 | F 9 |
| S 10 | 19 13 50 | 18° 5'56 | 12♏34 | 0°21 | 20°40 | 5°40 | 26°34 | 5°32 | 8° 1 | 15°49 | 9°41 | 3°37 | 2° 6 | 11°45 | 9°55 | S 10 |
| S 11 | 19 17 46 | 19° 3'09 | 26°42 | 29♋53 | 21°54 | 6°16 | 26°30 | 5°38 | 8° 1 | 15°48 | 9°42 | 3°R38 | 2° 3 | 11°52 | 9°55 | S 11 |
| M12 | 19 21 43 | 20° 0'22 | 11♐15 | 29°21 | 23° 8 | 6°52 | 26°25 | 5°44 | 8° 1 | 15°46 | 9°44 | 3°38 | 1°59 | 11°58 | 9°55 | M12 |
| T 13 | 19 25 40 | 20°57'35 | 26° 9 | 28°46 | 24°22 | 7°29 | 26°20 | 5°51 | 8°R 1 | 15°45 | 9°45 | 3°36 | 1°56 | 12° 5 | 9°R55 | T 13 |
| W14 | 19 29 36 | 21°54'48 | 11♑18 | 28° 8 | 25°35 | 8° 5 | 26°15 | 5°57 | 8° 1 | 15°43 | 9°47 | 3°32 | 1°53 | 12°12 | 9°55 | W14 |
| T 15 | 19 33 33 | 22°52'02 | 26°34 | 27°29 | 26°49 | 8°42 | 26°10 | 6° 3 | 8° 1 | 15°42 | 9°48 | 3°26 | 1°50 | 12°19 | 9°55 | T 15 |
| F 16 | 19 37 29 | 23°49'16 | 11♒45 | 26°48 | 28° 3 | 9°18 | 26° 4 | 6° 9 | 8° 1 | 15°40 | 9°50 | 3°19 | 1°47 | 12°25 | 9°55 | F 16 |
| S 17 | 19 41 26 | 24°46'31 | 26°41 | 26° 6 | 29°17 | 9°55 | 25°59 | 6°15 | 8° 1 | 15°39 | 9°51 | 3°12 | 1°44 | 12°32 | 9°55 | S 17 |
| S 18 | 19 45 22 | 25°43'46 | 11♓15 | 25°24 | 0♌31 | 10°32 | 25°53 | 6°21 | 8° 0 | 15°37 | 9°53 | 3° 5 | 1°40 | 12°39 | 9°55 | S 18 |
| M19 | 19 49 19 | 26°41'03 | 25°20 | 24°43 | 1°45 | 11° 8 | 25°47 | 6°27 | 8° 0 | 15°36 | 9°54 | 2°59 | 1°37 | 12°45 | 9°54 | M19 |
| T 20 | 19 53 15 | 27°38'20 | 8♈56 | 24° 3 | 2°59 | 11°45 | 25°41 | 6°33 | 8° 0 | 15°34 | 9°56 | 2°55 | 1°34 | 12°52 | 9°54 | T 20 |
| W21 | 19 57 12 | 28°35'38 | 22° 4 | 23°26 | 4°13 | 12°22 | 25°35 | 6°39 | 7°59 | 15°33 | 9°57 | 2°54 | 1°31 | 12°59 | 9°53 | W21 |
| T 22 | 20 1 9 | 29°32'58 | 4♉47 | 22°51 | 5°27 | 12°59 | 25°29 | 6°45 | 7°59 | 15°31 | 9°58 | 2°D54 | 1°28 | 13° 5 | 9°53 | T 22 |
| F 23 | 20 5 5 | 0♌30'18 | 17°10 | 22°20 | 6°41 | 13°36 | 25°23 | 6°50 | 7°59 | 15°30 | 10° 0 | 2°54 | 1°25 | 13°12 | 9°52 | F 23 |
| S 24 | 20 9 2 | 1°27'40 | 29°17 | 21°54 | 7°54 | 14°13 | 25°16 | 6°56 | 7°58 | 15°28 | 10° 1 | 2°R55 | 1°21 | 13°19 | 9°52 | S 24 |
| S 25 | 20 12 58 | 2°25'02 | 11♊13 | 21°31 | 9° 8 | 14°50 | 25°10 | 7° 2 | 7°58 | 15°27 | 10° 3 | 2°55 | 1°18 | 13°25 | 9°51 | S 25 |
| M26 | 20 16 55 | 3°22'26 | 23° 3 | 21°15 | 10°22 | 15°27 | 25° 3 | 7° 7 | 7°57 | 15°25 | 10° 4 | 2°53 | 1°15 | 13°32 | 9°51 | M26 |
| T 27 | 20 20 51 | 4°19'50 | 4♋51 | 21° 3 | 11°36 | 16° 4 | 24°56 | 7°13 | 7°56 | 15°23 | 10° 6 | 2°48 | 1°12 | 13°39 | 9°50 | T 27 |
| W28 | 20 24 48 | 5°17'16 | 16°40 | 20°D58 | 12°50 | 16°42 | 24°49 | 7°18 | 7°56 | 15°22 | 10° 7 | 2°41 | 1° 9 | 13°45 | 9°49 | W28 |
| T 29 | 20 28 44 | 6°14'42 | 28°32 | 20°59 | 14° 4 | 17°19 | 24°42 | 7°23 | 7°55 | 15°20 | 10° 8 | 2°32 | 1° 5 | 13°52 | 9°48 | T 29 |
| F 30 | 20 32 41 | 7°12'10 | 10♌29 | 21° 6 | 15°18 | 17°56 | 24°35 | 7°28 | 7°54 | 15°19 | 10°10 | 2°21 | 1° 2 | 13°59 | 9°47 | F 30 |
| S 31 | 20 36 38 | 8♌ 9'38 | 22♌33 | 21♋20 | 16♌32 | 18♍34 | 24♒28 | 7♊34 | 7♈53 | 15♒17 | 10♋11 | 2♐ 9 | 0♐59 | 14♋ 5 | 9♈46 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 8 | 18n23 | 3s42 | 18n 4 | 1s53 | 23n45 | 0n37 | 12n25 | 1n 5 | 13s27 | 1s 1 | 19n21 | 1s46 | 2n30 | 0s43 | 16s16 | 0s13 | 21n11 | 1s57 | 21s 0 | 20s43 | 19n52 | 6n 8 | 2n25 |
| F 2 | 23 4 | 15 36 | 4 22 | 17 47 | 2 8 | 23 41 | 0 39 | 12 12 | 1 5 | 13 28 | 1 2 | 19 22 | 1 46 | 2 31 | 0 43 | 16 16 | 0 13 | 21 11 | 1 57 | 20 59 | 20 42 | 19 51 | 6 8 | 2 25 |
| S 3 | 22 59 | 12 11 | 4 51 | 17 30 | 2 24 | 23 37 | 0 41 | 11 58 | 1 4 | 13 30 | 1 2 | 19 23 | 1 46 | 2 31 | 0 43 | 16 17 | 0 13 | 21 11 | 1 57 | 20 58 | 20 41 | 19 50 | 6 8 | 2 25 |
| S 4 | 22 54 | 8 14 | 5 7 | 17 15 | 2 39 | 23 32 | 0 43 | 11 45 | 1 3 | 13 31 | 1 2 | 19 25 | 1 46 | 2 31 | 0 43 | 16 17 | 0 13 | 21 11 | 1 57 | 20 57 | 20 41 | 19 48 | 6 9 | 2 25 |
| M 5 | 22 49 | 3 56 | 5 9 | 17 0 | 2 54 | 23 26 | 0 45 | 11 31 | 1 3 | 13 33 | 1 3 | 19 26 | 1 46 | 2 31 | 0 43 | 16 18 | 0 13 | 21 11 | 1 57 | 20 56 | 20 40 | 19 47 | 6 9 | 2 25 |
| T 6 | 22 43 | 0s36 | 4 58 | 16 47 | 3 8 | 23 20 | 0 47 | 11 17 | 1 2 | 13 34 | 1 3 | 19 27 | 1 46 | 2 31 | 0 43 | 16 18 | 0 13 | 21 11 | 1 57 | 20 55 | 20 40 | 19 46 | 6 9 | 2 25 |
| W 7 | 22 36 | 5 12 | 4 31 | 16 36 | 3 23 | 23 13 | 0 49 | 11 4 | 1 1 | 13 36 | 1 3 | 19 28 | 1 46 | 2 31 | 0 43 | 16 18 | 0 13 | 21 11 | 1 57 | 20 55 | 20 39 | 19 45 | 6 9 | 2 25 |
| T 8 | 22 30 | 9 41 | 3 51 | 16 26 | 3 36 | 23 5 | 0 51 | 10 50 | 1 1 | 13 37 | 1 3 | 19 29 | 1 46 | 2 31 | 0 43 | 16 19 | 0 13 | 21 11 | 1 57 | 20 54 | 20 38 | 19 43 | 6 9 | 2 25 |
| F 9 | 22 23 | 13 51 | 2 57 | 16 17 | 3 50 | 22 57 | 0 53 | 10 36 | 1 0 | 13 39 | 1 4 | 19 30 | 1 46 | 2 31 | 0 43 | 16 19 | 0 13 | 21 11 | 1 57 | 20 54 | 20 38 | 19 42 | 6 10 | 2 25 |
| S 10 | 22 15 | 17 24 | 1 52 | 16 10 | 4 2 | 22 47 | 0 55 | 10 22 | 0 59 | 13 41 | 1 4 | 19 31 | 1 46 | 2 31 | 0 43 | 16 20 | 0 13 | 21 11 | 1 57 | 20 55 | 20 37 | 19 41 | 6 10 | 2 25 |
| S 11 | 22 7 | 20 4 | 0 37 | 16 5 | 4 13 | 22 38 | 0 57 | 10 8 | 0 59 | 13 43 | 1 4 | 19 32 | 1 46 | 2 31 | 0 43 | 16 20 | 0 13 | 21 11 | 1 57 | 20 55 | 20 36 | 19 40 | 6 10 | 2 25 |
| M12 | 21 59 | 21 29 | 0n41 | 16 1 | 4 24 | 22 27 | 0 58 | 9 54 | 0 58 | 13 44 | 1 4 | 19 33 | 1 46 | 2 31 | 0 43 | 16 21 | 0 13 | 21 11 | 1 57 | 20 55 | 20 36 | 19 38 | 6 10 | 2 26 |
| T 13 | 21 51 | 21 27 | 1 59 | 15 59 | 4 33 | 22 16 | 1 0 | 9 40 | 0 57 | 13 46 | 1 5 | 19 34 | 1 46 | 2 31 | 0 43 | 16 21 | 0 13 | 21 11 | 1 57 | 20 55 | 20 35 | 19 37 | 6 10 | 2 26 |
| W14 | 21 42 | 19 52 | 3 9 | 15 59 | 4 41 | 22 4 | 1 2 | 9 25 | 0 57 | 13 48 | 1 5 | 19 35 | 1 46 | 2 31 | 0 43 | 16 21 | 0 13 | 21 11 | 1 57 | 20 54 | 20 34 | 19 36 | 6 10 | 2 26 |
| T 15 | 21 32 | 16 51 | 4 6 | 16 1 | 4 47 | 21 52 | 1 4 | 9 11 | 0 56 | 13 50 | 1 5 | 19 36 | 1 46 | 2 31 | 0 43 | 16 22 | 0 13 | 21 11 | 1 57 | 20 53 | 20 34 | 19 35 | 6 10 | 2 26 |
| F 16 | 21 23 | 12 43 | 4 46 | 16 4 | 4 52 | 21 39 | 1 5 | 8 57 | 0 55 | 13 52 | 1 5 | 19 37 | 1 47 | 2 31 | 0 43 | 16 22 | 0 13 | 21 11 | 1 57 | 20 51 | 20 33 | 19 33 | 6 10 | 2 26 |
| S 17 | 21 12 | 7 51 | 5 5 | 16 8 | 4 55 | 21 25 | 1 7 | 8 42 | 0 55 | 13 54 | 1 6 | 19 38 | 1 47 | 2 31 | 0 43 | 16 23 | 0 13 | 21 11 | 1 57 | 20 50 | 20 33 | 19 32 | 6 10 | 2 26 |
| S 18 | 21 2 | 2 40 | 5 4 | 16 15 | 4 56 | 21 11 | 1 8 | 8 28 | 0 54 | 13 57 | 1 6 | 19 39 | 1 47 | 2 31 | 0 43 | 16 23 | 0 13 | 21 10 | 1 57 | 20 49 | 20 32 | 19 31 | 6 10 | 2 26 |
| M19 | 20 51 | 2n29 | 4 44 | 16 22 | 4 56 | 20 56 | 1 10 | 8 13 | 0 53 | 13 59 | 1 6 | 19 40 | 1 47 | 2 31 | 0 43 | 16 24 | 0 13 | 21 10 | 1 56 | 20 47 | 20 31 | 19 30 | 6 10 | 2 26 |
| T 20 | 20 40 | 7 21 | 4 9 | 16 31 | 4 53 | 20 41 | 1 11 | 7 59 | 0 53 | 14 1 | 1 6 | 19 41 | 1 47 | 2 31 | 0 43 | 16 24 | 0 13 | 21 10 | 1 56 | 20 47 | 20 31 | 19 28 | 6 10 | 2 26 |
| W21 | 20 29 | 11 43 | 3 21 | 16 41 | 4 50 | 20 25 | 1 12 | 7 44 | 0 52 | 14 3 | 1 6 | 19 42 | 1 47 | 2 31 | 0 43 | 16 25 | 0 13 | 21 10 | 1 56 | 20 46 | 20 30 | 19 27 | 6 10 | 2 26 |
| T 22 | 20 17 | 15 25 | 2 25 | 16 52 | 4 44 | 20 8 | 1 14 | 7 29 | 0 51 | 14 6 | 1 7 | 19 43 | 1 47 | 2 30 | 0 43 | 16 25 | 0 13 | 21 10 | 1 56 | 20 46 | 20 29 | 19 26 | 6 10 | 2 26 |
| F 23 | 20 5 | 18 19 | 1 24 | 17 4 | 4 37 | 19 51 | 1 15 | 7 14 | 0 51 | 14 8 | 1 7 | 19 44 | 1 47 | 2 30 | 0 44 | 16 26 | 0 13 | 21 10 | 1 56 | 20 47 | 20 29 | 19 24 | 6 9 | 2 26 |
| S 24 | 19 52 | 20 21 | 0 20 | 17 17 | 4 28 | 19 33 | 1 16 | 6 59 | 0 50 | 14 10 | 1 7 | 19 45 | 1 47 | 2 30 | 0 44 | 16 26 | 0 13 | 21 10 | 1 56 | 20 47 | 20 28 | 19 23 | 6 9 | 2 26 |
| S 25 | 19 39 | 21 26 | 0s44 | 17 30 | 4 18 | 19 14 | 1 17 | 6 44 | 0 49 | 14 13 | 1 7 | 19 45 | 1 47 | 2 30 | 0 44 | 16 27 | 0 13 | 21 10 | 1 56 | 20 47 | 20 27 | 19 22 | 6 9 | 2 26 |
| M26 | 19 26 | 21 32 | 1 46 | 17 44 | 4 7 | 18 55 | 1 18 | 6 29 | 0 49 | 14 15 | 1 8 | 19 46 | 1 47 | 2 29 | 0 44 | 16 27 | 0 13 | 21 10 | 1 56 | 20 46 | 20 27 | 19 20 | 6 9 | 2 26 |
| T 27 | 19 13 | 20 42 | 2 42 | 17 58 | 3 55 | 18 36 | 1 19 | 6 14 | 0 48 | 14 18 | 1 8 | 19 47 | 1 47 | 2 29 | 0 44 | 16 28 | 0 13 | 21 10 | 1 56 | 20 45 | 20 26 | 19 19 | 6 9 | 2 26 |
| W28 | 18 59 | 18 57 | 3 31 | 18 12 | 3 42 | 18 16 | 1 20 | 5 59 | 0 47 | 14 20 | 1 8 | 19 48 | 1 48 | 2 29 | 0 44 | 16 28 | 0 13 | 21 10 | 1 56 | 20 44 | 20 25 | 19 18 | 6 8 | 2 26 |
| T 29 | 18 45 | 16 23 | 4 12 | 18 25 | 3 27 | 17 56 | 1 21 | 5 44 | 0 47 | 14 23 | 1 8 | 19 49 | 1 48 | 2 29 | 0 44 | 16 28 | 0 13 | 21 10 | 1 56 | 20 42 | 20 25 | 19 17 | 6 8 | 2 27 |
| F 30 | 18 30 | 13 8 | 4 41 | 18 39 | 3 13 | 17 35 | 1 22 | 5 29 | 0 46 | 14 25 | 1 8 | 19 49 | 1 48 | 2 28 | 0 44 | 16 29 | 0 13 | 21 10 | 1 56 | 20 40 | 20 24 | 19 15 | 6 8 | 2 27 |
| S 31 | 18n15 | 9n19 | 4s58 | 18n52 | 2s57 | 17n13 | 1n23 | 5n14 | 0n45 | 14s28 | 1s 8 | 19n50 | 1s48 | 2n28 | 0s44 | 16s29 | 0s13 | 21n10 | 1s56 | 20s38 | 20s23 | 19n14 | 6n 7 | 2n27 |

Julian Day Number = 2333753.5, Delta T = 25.11 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'19, Lahiri = 19°21'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## AUGUST 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 40 34 | 9♌ 7'08 | 4♍45 | 21♋40 | 17♌47 | 19♍11 | 24°R21 | 7♊39 | 7°R52 | 15°R15 | 10♋13 | 1°R57 | 0♐56 | 14♋12 | 9°R45 | S 1 |
| M 2 | 20 44 31 | 10° 4'38 | 17° 6 | 22° 7 | 19° 1 | 19°49 | 24♒13 | 7°44 | 7♈51 | 15♒14 | 10°14 | 1♐46 | 0°53 | 14°19 | 9♈44 | M 2 |
| T 3 | 20 48 27 | 11° 2'09 | 29°38 | 22°41 | 20°15 | 20°26 | 24° 6 | 7°48 | 7°50 | 15°12 | 10°15 | 1°38 | 0°50 | 14°25 | 9°43 | T 3 |
| W 4 | 20 52 24 | 11°59'41 | 12♎22 | 23°21 | 21°29 | 21° 4 | 23°58 | 7°53 | 7°49 | 15°10 | 10°17 | 1°32 | 0°46 | 14°32 | 9°42 | W 4 |
| T 5 | 20 56 20 | 12°57'14 | 25°20 | 24° 8 | 22°43 | 21°42 | 23°51 | 7°58 | 7°48 | 15° 9 | 10°18 | 1°28 | 0°43 | 14°39 | 9°41 | T 5 |
| F 6 | 21 0 17 | 13°54'48 | 8♏35 | 25° 1 | 23°57 | 22°20 | 23°43 | 8° 3 | 7°47 | 15° 7 | 10°19 | 1°D27 | 0°40 | 14°45 | 9°40 | F 6 |
| S 7 | 21 4 13 | 14°52'23 | 22°10 | 26° 1 | 25°11 | 22°57 | 23°35 | 8° 7 | 7°46 | 15° 6 | 10°21 | 1°27 | 0°37 | 14°52 | 9°38 | S 7 |
| S 8 | 21 8 10 | 15°49'58 | 6♐ 7 | 27° 7 | 26°25 | 23°35 | 23°28 | 8°12 | 7°45 | 15° 4 | 10°22 | 1°R27 | 0°34 | 14°59 | 9°37 | S 8 |
| M 9 | 21 12 7 | 16°47'35 | 20°25 | 28°19 | 27°39 | 24°13 | 23°20 | 8°16 | 7°44 | 15° 2 | 10°23 | 1°26 | 0°31 | 15° 6 | 9°36 | M 9 |
| T 10 | 21 16 3 | 17°45'13 | 5♑ 4 | 29°36 | 28°53 | 24°51 | 23°12 | 8°21 | 7°42 | 15° 1 | 10°24 | 1°23 | 0°27 | 15°12 | 9°34 | T 10 |
| W11 | 21 20 0 | 18°42'51 | 19°59 | 0♌59 | 0♍ 7 | 25°29 | 23° 4 | 8°25 | 7°41 | 14°59 | 10°26 | 1°17 | 0°24 | 15°19 | 9°33 | W11 |
| T 12 | 21 23 56 | 19°40'31 | 5♒ 3 | 2°27 | 1°21 | 26° 7 | 22°57 | 8°29 | 7°40 | 14°57 | 10°27 | 1° 9 | 0°21 | 15°26 | 9°31 | T 12 |
| F 13 | 21 27 53 | 20°38'12 | 20° 7 | 3°59 | 2°35 | 26°45 | 22°49 | 8°33 | 7°38 | 14°56 | 10°28 | 0°58 | 0°18 | 15°32 | 9°30 | F 13 |
| S 14 | 21 31 49 | 21°35'55 | 5♓ 0 | 5°36 | 3°49 | 27°24 | 22°41 | 8°37 | 7°37 | 14°54 | 10°29 | 0°47 | 0°15 | 15°39 | 9°28 | S 14 |
| S 15 | 21 35 46 | 22°33'38 | 19°34 | 7°17 | 5° 3 | 28° 2 | 22°33 | 8°41 | 7°35 | 14°53 | 10°31 | 0°37 | 0°11 | 15°46 | 9°26 | S 15 |
| M16 | 21 39 42 | 23°31'24 | 3♈43 | 9° 2 | 6°17 | 28°40 | 22°25 | 8°45 | 7°34 | 14°51 | 10°32 | 0°28 | 0° 8 | 15°52 | 9°25 | M16 |
| T 17 | 21 43 39 | 24°29'11 | 17°23 | 10°50 | 7°31 | 29°18 | 22°17 | 8°48 | 7°32 | 14°49 | 10°33 | 0°22 | 0° 5 | 15°59 | 9°23 | T 17 |
| W18 | 21 47 36 | 25°26'59 | 0♉35 | 12°40 | 8°45 | 29°57 | 22° 9 | 8°52 | 7°31 | 14°48 | 10°34 | 0°18 | 0° 2 | 16° 6 | 9°21 | W18 |
| T 19 | 21 51 32 | 26°24'50 | 13°21 | 14°33 | 9°59 | 0♎35 | 22° 2 | 8°56 | 7°29 | 14°46 | 10°35 | 0°16 | 29♏59 | 16°12 | 9°19 | T 19 |
| F 20 | 21 55 29 | 27°22'42 | 25°45 | 16°28 | 11°14 | 1°14 | 21°54 | 8°59 | 7°28 | 14°45 | 10°36 | 0°16 | 29°56 | 16°19 | 9°17 | F 20 |
| S 21 | 21 59 25 | 28°20'36 | 7♊52 | 18°24 | 12°28 | 1°52 | 21°46 | 9° 2 | 7°26 | 14°43 | 10°38 | 0°16 | 29°52 | 16°26 | 9°16 | S 21 |
| S 22 | 22 3 22 | 29°18'32 | 19°48 | 20°21 | 13°42 | 2°31 | 21°38 | 9° 6 | 7°24 | 14°41 | 10°39 | 0°15 | 29°49 | 16°32 | 9°14 | S 22 |
| M23 | 22 7 18 | 0♍16'30 | 1♋37 | 22°19 | 14°56 | 3°10 | 21°30 | 9° 9 | 7°22 | 14°40 | 10°40 | 0°12 | 29°46 | 16°39 | 9°12 | M23 |
| T 24 | 22 11 15 | 1°14'29 | 13°26 | 24°17 | 16°10 | 3°48 | 21°23 | 9°12 | 7°21 | 14°38 | 10°41 | 0° 7 | 29°43 | 16°46 | 9°10 | T 24 |
| W25 | 22 15 11 | 2°12'30 | 25°17 | 26°15 | 17°24 | 4°27 | 21°15 | 9°15 | 7°19 | 14°37 | 10°42 | 29♏59 | 29°40 | 16°53 | 9° 7 | W25 |
| T 26 | 22 19 8 | 3°10'34 | 7♌14 | 28°14 | 18°38 | 5° 6 | 21° 8 | 9°18 | 7°17 | 14°35 | 10°43 | 29°48 | 29°37 | 16°59 | 9° 5 | T 26 |
| F 27 | 22 23 5 | 4° 8'38 | 19°20 | 0♍12 | 19°52 | 5°45 | 21° 0 | 9°20 | 7°15 | 14°34 | 10°44 | 29°36 | 29°33 | 17° 6 | 9° 3 | F 27 |
| S 28 | 22 27 1 | 5° 6'45 | 1♍35 | 2° 9 | 21° 6 | 6°24 | 20°53 | 9°23 | 7°13 | 14°32 | 10°45 | 29°22 | 29°30 | 17°13 | 9° 1 | S 28 |
| S 29 | 22 30 58 | 6° 4'53 | 14° 1 | 4° 6 | 22°20 | 7° 3 | 20°45 | 9°26 | 7°11 | 14°31 | 10°46 | 29° 8 | 29°27 | 17°19 | 8°59 | S 29 |
| M30 | 22 34 54 | 7° 3'03 | 26°37 | 6° 2 | 23°35 | 7°42 | 20°38 | 9°28 | 7° 9 | 14°29 | 10°47 | 28°56 | 29°24 | 17°26 | 8°57 | M30 |
| T 31 | 22 38 51 | 8♍ 1'14 | 9♎25 | 7♍58 | 24♍49 | 8♎21 | 20♒31 | 9♊31 | 7♈ 7 | 14♒28 | 10♋48 | 28♏46 | 29♏21 | 17♋33 | 8♈54 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 0 | 5n 6 | 5s 2 | 19n 5 | 2s41 | 16n51 | 1n23 | 4n58 | 0n45 | 14s31 | 1s 9 | 19n51 | 1s48 | 2n27 | 0s44 | 16s30 | 0s13 | 21n10 | 1s56 | 20s35 | 20s23 | 19n13 | 6n 7 | 2n27 |
| M 2 | 17 45 | 0 37 | 4 52 | 19 16 | 2 25 | 16 29 | 1 24 | 4 43 | 0 44 | 14 33 | 1 9 | 19 52 | 1 48 | 2 27 | 0 44 | 16 30 | 0 13 | 21 9 | 1 56 | 20 33 | 20 22 | 19 11 | 6 7 | 2 27 |
| T 3 | 17 29 | 3s56 | 4 28 | 19 27 | 2 9 | 16 6 | 1 25 | 4 28 | 0 43 | 14 36 | 1 9 | 19 52 | 1 48 | 2 27 | 0 44 | 16 31 | 0 13 | 21 9 | 1 56 | 20 31 | 20 21 | 19 10 | 6 6 | 2 27 |
| W 4 | 17 13 | 8 25 | 3 50 | 19 36 | 1 52 | 15 43 | 1 25 | 4 12 | 0 43 | 14 38 | 1 9 | 19 53 | 1 48 | 2 26 | 0 44 | 16 31 | 0 13 | 21 9 | 1 56 | 20 30 | 20 21 | 19 9 | 6 6 | 2 27 |
| T 5 | 16 57 | 12 36 | 2 59 | 19 45 | 1 36 | 15 19 | 1 26 | 3 57 | 0 42 | 14 41 | 1 9 | 19 54 | 1 48 | 2 26 | 0 44 | 16 32 | 0 13 | 21 9 | 1 56 | 20 29 | 20 20 | 19 7 | 6 6 | 2 27 |
| F 6 | 16 41 | 16 15 | 1 58 | 19 51 | 1 20 | 14 55 | 1 26 | 3 41 | 0 41 | 14 44 | 1 9 | 19 54 | 1 48 | 2 25 | 0 44 | 16 32 | 0 13 | 21 9 | 1 56 | 20 29 | 20 20 | 19 6 | 6 5 | 2 27 |
| S 7 | 16 24 | 19 8 | 0 49 | 19 56 | 1 4 | 14 30 | 1 26 | 3 26 | 0 41 | 14 46 | 1 10 | 19 55 | 1 49 | 2 25 | 0 44 | 16 33 | 0 13 | 21 9 | 1 56 | 20 29 | 20 19 | 19 5 | 6 5 | 2 27 |
| S 8 | 16 7 | 20 58 | 0n25 | 19 59 | 0 48 | 14 5 | 1 26 | 3 10 | 0 40 | 14 49 | 1 10 | 19 55 | 1 49 | 2 24 | 0 44 | 16 33 | 0 13 | 21 9 | 1 56 | 20 29 | 20 18 | 19 3 | 6 4 | 2 27 |
| M 9 | 15 50 | 21 29 | 1 39 | 19 59 | 0 33 | 13 40 | 1 27 | 2 54 | 0 40 | 14 52 | 1 10 | 19 56 | 1 49 | 2 24 | 0 44 | 16 34 | 0 13 | 21 9 | 1 56 | 20 29 | 20 18 | 19 2 | 6 4 | 2 27 |
| T 10 | 15 32 | 20 35 | 2 48 | 19 58 | 0 19 | 13 14 | 1 27 | 2 39 | 0 39 | 14 55 | 1 10 | 19 56 | 1 49 | 2 23 | 0 44 | 16 34 | 0 13 | 21 9 | 1 56 | 20 28 | 20 17 | 19 0 | 6 3 | 2 27 |
| W11 | 15 15 | 18 15 | 3 47 | 19 54 | 0 5 | 12 48 | 1 27 | 2 23 | 0 38 | 14 57 | 1 10 | 19 57 | 1 49 | 2 23 | 0 44 | 16 35 | 0 13 | 21 9 | 1 56 | 20 27 | 20 16 | 18 59 | 6 3 | 2 27 |
| T 12 | 14 56 | 14 39 | 4 31 | 19 47 | 0n 9 | 12 22 | 1 27 | 2 7 | 0 38 | 15 0 | 1 10 | 19 58 | 1 49 | 2 22 | 0 44 | 16 35 | 0 13 | 21 9 | 1 56 | 20 25 | 20 16 | 18 58 | 6 2 | 2 27 |
| F 13 | 14 38 | 10 7 | 4 56 | 19 38 | 0 21 | 11 55 | 1 27 | 1 51 | 0 37 | 15 3 | 1 10 | 19 58 | 1 49 | 2 22 | 0 44 | 16 36 | 0 13 | 21 9 | 1 56 | 20 23 | 20 15 | 18 56 | 6 1 | 2 27 |
| S 14 | 14 20 | 5 2 | 5 0 | 19 26 | 0 33 | 11 28 | 1 27 | 1 36 | 0 36 | 15 5 | 1 11 | 19 59 | 1 49 | 2 21 | 0 44 | 16 36 | 0 13 | 21 9 | 1 56 | 20 21 | 20 14 | 18 55 | 6 1 | 2 27 |
| S 15 | 14 1 | 0n14 | 4 45 | 19 12 | 0 44 | 11 1 | 1 26 | 1 20 | 0 36 | 15 8 | 1 11 | 19 59 | 1 50 | 2 20 | 0 44 | 16 37 | 0 13 | 21 9 | 1 56 | 20 19 | 20 14 | 18 54 | 6 0 | 2 27 |
| M16 | 13 42 | 5 20 | 4 12 | 18 54 | 0 54 | 10 33 | 1 26 | 1 4 | 0 35 | 15 11 | 1 11 | 20 0 | 1 50 | 2 20 | 0 44 | 16 37 | 0 13 | 21 9 | 1 55 | 20 17 | 20 13 | 18 52 | 5 59 | 2 27 |
| T 17 | 13 23 | 10 1 | 3 26 | 18 34 | 1 4 | 10 5 | 1 26 | 0 48 | 0 34 | 15 13 | 1 11 | 20 0 | 1 50 | 2 19 | 0 44 | 16 38 | 0 13 | 21 8 | 1 55 | 20 16 | 20 12 | 18 51 | 5 59 | 2 27 |
| W18 | 13 4 | 14 2 | 2 30 | 18 11 | 1 12 | 9 37 | 1 25 | 0 32 | 0 34 | 15 16 | 1 11 | 20 0 | 1 50 | 2 19 | 0 44 | 16 38 | 0 13 | 21 8 | 1 55 | 20 15 | 20 11 | 18 49 | 5 58 | 2 27 |
| T 19 | 12 44 | 17 16 | 1 28 | 17 46 | 1 19 | 9 9 | 1 25 | 0 16 | 0 33 | 15 19 | 1 11 | 20 1 | 1 50 | 2 18 | 0 44 | 16 39 | 0 13 | 21 8 | 1 55 | 20 15 | 20 11 | 18 48 | 5 57 | 2 27 |
| F 20 | 12 24 | 19 37 | 0 24 | 17 18 | 1 26 | 8 40 | 1 24 | 0 0 | 0 33 | 15 21 | 1 11 | 20 1 | 1 50 | 2 17 | 0 44 | 16 39 | 0 13 | 21 8 | 1 55 | 20 14 | 20 10 | 18 47 | 5 57 | 2 27 |
| S 21 | 12 4 | 21 0 | 0s40 | 16 47 | 1 31 | 8 11 | 1 24 | 0s16 | 0 32 | 15 24 | 1 11 | 20 2 | 1 50 | 2 17 | 0 44 | 16 40 | 0 13 | 21 8 | 1 55 | 20 14 | 20 9 | 18 45 | 5 56 | 2 27 |
| S 22 | 11 44 | 21 24 | 1 41 | 16 15 | 1 36 | 7 42 | 1 23 | 0 32 | 0 31 | 15 26 | 1 11 | 20 2 | 1 50 | 2 16 | 0 44 | 16 40 | 0 13 | 21 8 | 1 55 | 20 14 | 20 9 | 18 44 | 5 55 | 2 27 |
| M23 | 11 24 | 20 50 | 2 38 | 15 40 | 1 40 | 7 13 | 1 22 | 0 47 | 0 31 | 15 29 | 1 11 | 20 2 | 1 51 | 2 15 | 0 44 | 16 41 | 0 13 | 21 8 | 1 55 | 20 14 | 20 8 | 18 42 | 5 54 | 2 27 |
| T 24 | 11 3 | 19 22 | 3 27 | 15 4 | 1 43 | 6 43 | 1 22 | 1 3 | 0 30 | 15 32 | 1 11 | 20 3 | 1 51 | 2 14 | 0 44 | 16 41 | 0 14 | 21 8 | 1 55 | 20 13 | 20 7 | 18 41 | 5 54 | 2 27 |
| W25 | 10 42 | 17 3 | 4 8 | 14 26 | 1 45 | 6 13 | 1 21 | 1 19 | 0 29 | 15 34 | 1 11 | 20 3 | 1 51 | 2 14 | 0 44 | 16 42 | 0 14 | 21 8 | 1 55 | 20 11 | 20 7 | 18 40 | 5 53 | 2 27 |
| T 26 | 10 21 | 14 1 | 4 37 | 13 46 | 1 46 | 5 44 | 1 20 | 1 36 | 0 29 | 15 37 | 1 11 | 20 3 | 1 51 | 2 13 | 0 44 | 16 42 | 0 14 | 21 8 | 1 55 | 20 9 | 20 6 | 18 38 | 5 52 | 2 27 |
| F 27 | 10 0 | 10 22 | 4 55 | 13 5 | 1 47 | 5 14 | 1 19 | 1 52 | 0 28 | 15 39 | 1 12 | 20 4 | 1 51 | 2 12 | 0 44 | 16 42 | 0 14 | 21 8 | 1 55 | 20 6 | 20 5 | 18 37 | 5 51 | 2 27 |
| S 28 | 9 39 | 6 16 | 5 0 | 12 23 | 1 47 | 4 43 | 1 18 | 2 8 | 0 27 | 15 41 | 1 12 | 20 4 | 1 51 | 2 11 | 0 44 | 16 43 | 0 14 | 21 8 | 1 55 | 20 3 | 20 5 | 18 35 | 5 50 | 2 27 |
| S 29 | 9 18 | 1 50 | 4 50 | 11 40 | 1 46 | 4 13 | 1 17 | 2 24 | 0 27 | 15 44 | 1 12 | 20 4 | 1 51 | 2 11 | 0 44 | 16 43 | 0 14 | 21 8 | 1 55 | 20 0 | 20 4 | 18 34 | 5 49 | 2 27 |
| M30 | 8 56 | 2s44 | 4 26 | 10 56 | 1 44 | 3 43 | 1 15 | 2 40 | 0 26 | 15 46 | 1 12 | 20 4 | 1 51 | 2 10 | 0 44 | 16 44 | 0 14 | 21 8 | 1 55 | 19 57 | 20 3 | 18 33 | 5 49 | 2 27 |
| T 31 | 8n35 | 7s14 | 3s49 | 10n11 | 1n42 | 3n12 | 1n14 | 2s56 | 0n26 | 15s48 | 1s12 | 20n 5 | 1s52 | 2n 9 | 0s44 | 16s44 | 0s14 | 21n 8 | 1s55 | 19s55 | 20s 3 | 18n31 | 5n48 | 2n27 |

Julian Day Number = 2333784.5, Delta T = 25.06 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'23, Lahiri = 19°21'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## SEPTEMBER 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 42 47 | 8♍59'27 | 22♎23 | 9♍52 | 26♍ 3 | 9♎ 0 | 20°R24 | 9♊33 | 7°R 5 | 14°R26 | 10♋49 | 28°R39 | 29♏17 | 17♋39 | 8°R52 | W 1 |
| T 2 | 22 46 44 | 9°57'42 | 5♏33 | 11°45 | 27°17 | 9°40 | 20♒17 | 9°35 | 7♈ 3 | 14♒25 | 10°49 | 28♏35 | 29°14 | 17°46 | 8♈50 | T 2 |
| F 3 | 22 50 40 | 10°55'59 | 18°56 | 13°37 | 28°31 | 10°19 | 20°10 | 9°37 | 7° 1 | 14°23 | 10°50 | 28°34 | 29°11 | 17°53 | 8°47 | F 3 |
| S 4 | 22 54 37 | 11°54'16 | 2♐32 | 15°29 | 29°45 | 10°58 | 20° 3 | 9°39 | 6°59 | 14°22 | 10°51 | 28°D33 | 29° 8 | 17°59 | 8°45 | S 4 |
| S 5 | 22 58 34 | 12°52'36 | 16°24 | 17°19 | 0♎59 | 11°38 | 19°56 | 9°41 | 6°57 | 14°21 | 10°52 | 28°R33 | 29° 5 | 18° 6 | 8°42 | S 5 |
| M 6 | 23 2 30 | 13°50'57 | 0♑31 | 19° 8 | 2°13 | 12°17 | 19°50 | 9°43 | 6°55 | 14°19 | 10°53 | 28°33 | 29° 2 | 18°13 | 8°40 | M 6 |
| T 7 | 23 6 27 | 14°49'19 | 14°53 | 20°56 | 3°27 | 12°57 | 19°43 | 9°44 | 6°52 | 14°18 | 10°54 | 28°30 | 28°58 | 18°19 | 8°37 | T 7 |
| W 8 | 23 10 23 | 15°47'43 | 29°27 | 22°42 | 4°41 | 13°36 | 19°37 | 9°46 | 6°50 | 14°16 | 10°54 | 28°24 | 28°55 | 18°26 | 8°35 | W 8 |
| T 9 | 23 14 20 | 16°46'09 | 14♒ 8 | 24°28 | 5°55 | 14°16 | 19°31 | 9°47 | 6°48 | 14°15 | 10°55 | 28°16 | 28°52 | 18°33 | 8°32 | T 9 |
| F 10 | 23 18 16 | 17°44'36 | 28°51 | 26°12 | 7° 9 | 14°56 | 19°25 | 9°48 | 6°46 | 14°14 | 10°56 | 28° 6 | 28°49 | 18°40 | 8°30 | F 10 |
| S 11 | 23 22 13 | 18°43'05 | 13♓26 | 27°56 | 8°23 | 15°35 | 19°19 | 9°50 | 6°44 | 14°13 | 10°57 | 27°56 | 28°46 | 18°46 | 8°27 | S 11 |
| S 12 | 23 26 9 | 19°41'36 | 27°47 | 29°38 | 9°37 | 16°15 | 19°13 | 9°51 | 6°41 | 14°11 | 10°57 | 27°46 | 28°42 | 18°53 | 8°25 | S 12 |
| M13 | 23 30 6 | 20°40'09 | 11♈48 | 1♎20 | 10°51 | 16°55 | 19° 7 | 9°52 | 6°39 | 14°10 | 10°58 | 27°37 | 28°39 | 19° 0 | 8°22 | M13 |
| T 14 | 23 34 2 | 21°38'44 | 25°24 | 3° 0 | 12° 6 | 17°35 | 19° 2 | 9°53 | 6°37 | 14° 9 | 10°59 | 27°31 | 28°36 | 19° 6 | 8°19 | T 14 |
| W15 | 23 37 59 | 22°37'21 | 8♉35 | 4°39 | 13°20 | 18°15 | 18°57 | 9°53 | 6°34 | 14° 8 | 10°59 | 27°27 | 28°33 | 19°13 | 8°17 | W15 |
| T 16 | 23 41 56 | 23°36'01 | 21°22 | 6°18 | 14°34 | 18°55 | 18°51 | 9°54 | 6°32 | 14° 6 | 11° 0 | 27°25 | 28°30 | 19°20 | 8°14 | T 16 |
| F 17 | 23 45 52 | 24°34'42 | 3♊48 | 7°55 | 15°48 | 19°35 | 18°46 | 9°55 | 6°30 | 14° 5 | 11° 0 | 27°D25 | 28°27 | 19°26 | 8°11 | F 17 |
| S 18 | 23 49 49 | 25°33'26 | 15°57 | 9°31 | 17° 2 | 20°15 | 18°41 | 9°55 | 6°27 | 14° 4 | 11° 1 | 27°26 | 28°23 | 19°33 | 8° 9 | S 18 |
| S 19 | 23 53 45 | 26°32'12 | 27°55 | 11° 7 | 18°16 | 20°55 | 18°37 | 9°55 | 6°25 | 14° 3 | 11° 1 | 27°R26 | 28°20 | 19°40 | 8° 6 | S 19 |
| M20 | 23 57 42 | 27°31'01 | 9♋46 | 12°41 | 19°30 | 21°36 | 18°32 | 9°56 | 6°23 | 14° 2 | 11° 2 | 27°25 | 28°17 | 19°46 | 8° 3 | M20 |
| T 21 | 0 1 38 | 28°29'51 | 21°36 | 14°15 | 20°44 | 22°16 | 18°28 | 9°R56 | 6°20 | 14° 1 | 11° 2 | 27°22 | 28°14 | 19°53 | 8° 0 | T 21 |
| W22 | 0 5 35 | 29°28'44 | 3♌30 | 15°47 | 21°58 | 22°56 | 18°24 | 9°56 | 6°18 | 14° 0 | 11° 3 | 27°17 | 28°11 | 20° 0 | 7°58 | W22 |
| T 23 | 0 9 31 | 0♎27'39 | 15°32 | 17°19 | 23°11 | 23°37 | 18°20 | 9°56 | 6°15 | 13°59 | 11° 3 | 27°10 | 28° 8 | 20° 7 | 7°55 | T 23 |
| F 24 | 0 13 28 | 1°26'36 | 27°45 | 18°50 | 24°25 | 24°17 | 18°16 | 9°55 | 6°13 | 13°58 | 11° 4 | 27° 1 | 28° 4 | 20°13 | 7°52 | F 24 |
| S 25 | 0 17 25 | 2°25'36 | 10♍11 | 20°20 | 25°39 | 24°58 | 18°12 | 9°55 | 6°10 | 13°57 | 11° 4 | 26°51 | 28° 1 | 20°20 | 7°49 | S 25 |
| S 26 | 0 21 21 | 3°24'37 | 22°51 | 21°49 | 26°53 | 25°38 | 18° 9 | 9°55 | 6° 8 | 13°56 | 11° 5 | 26°40 | 27°58 | 20°27 | 7°46 | S 26 |
| M27 | 0 25 18 | 4°23'41 | 5♎45 | 23°17 | 28° 7 | 26°19 | 18° 5 | 9°54 | 6° 6 | 13°55 | 11° 5 | 26°31 | 27°55 | 20°33 | 7°44 | M27 |
| T 28 | 0 29 14 | 5°22'47 | 18°54 | 24°44 | 29°21 | 27° 0 | 18° 2 | 9°53 | 6° 3 | 13°54 | 11° 5 | 26°24 | 27°52 | 20°40 | 7°41 | T 28 |
| W29 | 0 33 11 | 6°21'54 | 2♏14 | 26°10 | 0♏35 | 27°41 | 17°59 | 9°53 | 6° 1 | 13°53 | 11° 6 | 26°19 | 27°48 | 20°47 | 7°38 | W29 |
| T 30 | 0 37 7 | 7♎21'04 | 15♏46 | 27♎36 | 1♏49 | 28♎21 | 17♒57 | 9♊52 | 5♈58 | 13♒53 | 11♋ 6 | 26♏17 | 27♏45 | 20♋53 | 7♈35 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 8n13 | 11s30 | 2s59 | 9n25 | 1n40 | 2n41 | 1n13 | 3s12 | 0n25 | 15s51 | 1s12 | 20n 5 | 1s52 | 2n 8 | 0s44 | 16s45 | 0s14 | 21n 8 | 1s55 | 19s54 | 20s 2 | 18n30 | 5n47 | 2n27 |
| T 2 | 7 51 | 15 16 | 1 59 | 8 40 | 1 37 | 2 11 | 1 11 | 3 28 | 0 24 | 15 53 | 1 12 | 20 5 | 1 52 | 2 7 | 0 45 | 16 45 | 0 14 | 21 8 | 1 55 | 19 53 | 20 1 | 18 28 | 5 46 | 2 27 |
| F 3 | 7 29 | 18 18 | 0 51 | 7 53 | 1 33 | 1 40 | 1 10 | 3 44 | 0 24 | 15 55 | 1 12 | 20 5 | 1 52 | 2 7 | 0 45 | 16 46 | 0 14 | 21 7 | 1 55 | 19 52 | 20 1 | 18 27 | 5 45 | 2 27 |
| S 4 | 7 7 | 20 22 | 0n21 | 7 7 | 1 30 | 1 9 | 1 9 | 4 0 | 0 23 | 15 57 | 1 12 | 20 5 | 1 52 | 2 6 | 0 45 | 16 46 | 0 14 | 21 7 | 1 55 | 19 52 | 20 0 | 18 25 | 5 44 | 2 27 |
| S 5 | 6 44 | 21 14 | 1 33 | 6 20 | 1 25 | 0 38 | 1 7 | 4 16 | 0 22 | 15 59 | 1 12 | 20 5 | 1 52 | 2 5 | 0 45 | 16 46 | 0 14 | 21 7 | 1 55 | 19 52 | 19 59 | 18 24 | 5 43 | 2 27 |
| M 6 | 6 22 | 20 48 | 2 41 | 5 33 | 1 21 | 0 7 | 1 5 | 4 32 | 0 22 | 16 2 | 1 12 | 20 5 | 1 52 | 2 4 | 0 45 | 16 47 | 0 14 | 21 7 | 1 55 | 19 52 | 19 59 | 18 22 | 5 42 | 2 27 |
| T 7 | 5 59 | 19 1 | 3 39 | 4 46 | 1 16 | 0s24 | 1 4 | 4 48 | 0 21 | 16 4 | 1 12 | 20 6 | 1 53 | 2 3 | 0 45 | 16 47 | 0 14 | 21 7 | 1 55 | 19 51 | 19 58 | 18 21 | 5 41 | 2 27 |
| W 8 | 5 37 | 15 59 | 4 25 | 3 59 | 1 10 | 0 55 | 1 2 | 5 4 | 0 20 | 16 6 | 1 12 | 20 6 | 1 53 | 2 2 | 0 45 | 16 48 | 0 14 | 21 7 | 1 55 | 19 50 | 19 57 | 18 20 | 5 40 | 2 27 |
| T 9 | 5 14 | 11 56 | 4 53 | 3 12 | 1 5 | 1 26 | 1 0 | 5 20 | 0 20 | 16 7 | 1 12 | 20 6 | 1 53 | 2 1 | 0 45 | 16 48 | 0 14 | 21 7 | 1 55 | 19 49 | 19 56 | 18 18 | 5 39 | 2 27 |
| F 10 | 4 51 | 7 10 | 5 2 | 2 25 | 0 59 | 1 57 | 0 58 | 5 36 | 0 19 | 16 9 | 1 12 | 20 6 | 1 53 | 2 0 | 0 45 | 16 48 | 0 14 | 21 7 | 1 55 | 19 46 | 19 56 | 18 17 | 5 38 | 2 27 |
| S 11 | 4 28 | 2 2 | 4 51 | 1 38 | 0 53 | 2 28 | 0 57 | 5 52 | 0 19 | 16 11 | 1 12 | 20 6 | 1 53 | 2 0 | 0 45 | 16 49 | 0 14 | 21 7 | 1 55 | 19 44 | 19 55 | 18 15 | 5 37 | 2 27 |
| S 12 | 4 5 | 3n 8 | 4 22 | 0 52 | 0 47 | 2 59 | 0 55 | 6 8 | 0 18 | 16 13 | 1 11 | 20 6 | 1 53 | 1 59 | 0 45 | 16 49 | 0 14 | 21 7 | 1 55 | 19 42 | 19 54 | 18 14 | 5 36 | 2 27 |
| M13 | 3 42 | 8 1 | 3 38 | 0 5 | 0 40 | 3 30 | 0 53 | 6 24 | 0 17 | 16 15 | 1 11 | 20 6 | 1 53 | 1 58 | 0 45 | 16 49 | 0 14 | 21 7 | 1 55 | 19 40 | 19 54 | 18 12 | 5 35 | 2 27 |
| T 14 | 3 19 | 12 21 | 2 42 | 0s41 | 0 34 | 4 1 | 0 51 | 6 39 | 0 17 | 16 16 | 1 11 | 20 6 | 1 54 | 1 57 | 0 45 | 16 50 | 0 14 | 21 7 | 1 55 | 19 38 | 19 53 | 18 11 | 5 34 | 2 27 |
| W15 | 2 56 | 15 57 | 1 39 | 1 26 | 0 27 | 4 31 | 0 48 | 6 55 | 0 16 | 16 18 | 1 11 | 20 6 | 1 54 | 1 56 | 0 45 | 16 50 | 0 14 | 21 7 | 1 55 | 19 37 | 19 52 | 18 9 | 5 33 | 2 27 |
| T 16 | 2 33 | 18 39 | 0 32 | 2 12 | 0 20 | 5 2 | 0 46 | 7 11 | 0 15 | 16 20 | 1 11 | 20 6 | 1 54 | 1 55 | 0 45 | 16 51 | 0 14 | 21 7 | 1 55 | 19 37 | 19 52 | 18 8 | 5 31 | 2 27 |
| F 17 | 2 9 | 20 23 | 0s34 | 2 57 | 0 13 | 5 33 | 0 44 | 7 27 | 0 15 | 16 21 | 1 11 | 20 6 | 1 54 | 1 54 | 0 45 | 16 51 | 0 14 | 21 7 | 1 55 | 19 37 | 19 51 | 18 6 | 5 30 | 2 27 |
| S 18 | 1 46 | 21 7 | 1 37 | 3 41 | 0 6 | 6 3 | 0 42 | 7 43 | 0 14 | 16 23 | 1 11 | 20 6 | 1 54 | 1 53 | 0 45 | 16 51 | 0 14 | 21 7 | 1 55 | 19 37 | 19 50 | 18 5 | 5 29 | 2 27 |
| S 19 | 1 23 | 20 52 | 2 36 | 4 25 | 0s 1 | 6 34 | 0 40 | 7 58 | 0 14 | 16 24 | 1 11 | 20 6 | 1 54 | 1 52 | 0 45 | 16 52 | 0 14 | 21 7 | 1 55 | 19 37 | 19 49 | 18 3 | 5 28 | 2 27 |
| M20 | 0 59 | 19 41 | 3 26 | 5 9 | 0 8 | 7 4 | 0 37 | 8 14 | 0 13 | 16 25 | 1 11 | 20 5 | 1 54 | 1 51 | 0 45 | 16 52 | 0 14 | 21 7 | 1 55 | 19 37 | 19 49 | 18 2 | 5 27 | 2 27 |
| T 21 | 0 36 | 17 39 | 4 8 | 5 52 | 0 16 | 7 34 | 0 35 | 8 30 | 0 12 | 16 27 | 1 11 | 20 5 | 1 55 | 1 50 | 0 45 | 16 52 | 0 14 | 21 7 | 1 55 | 19 36 | 19 48 | 18 0 | 5 26 | 2 27 |
| W22 | 0 12 | 14 52 | 4 40 | 6 35 | 0 23 | 8 4 | 0 33 | 8 45 | 0 12 | 16 28 | 1 11 | 20 5 | 1 55 | 1 49 | 0 45 | 16 52 | 0 14 | 21 7 | 1 55 | 19 35 | 19 47 | 17 59 | 5 25 | 2 27 |
| T 23 | 0s11 | 11 26 | 4 59 | 7 17 | 0 30 | 8 34 | 0 30 | 9 1 | 0 11 | 16 29 | 1 11 | 20 5 | 1 55 | 1 48 | 0 45 | 16 53 | 0 14 | 21 7 | 1 55 | 19 33 | 19 47 | 17 57 | 5 24 | 2 27 |
| F 24 | 0 35 | 7 30 | 5 5 | 7 58 | 0 38 | 9 3 | 0 28 | 9 16 | 0 10 | 16 30 | 1 11 | 20 5 | 1 55 | 1 47 | 0 45 | 16 53 | 0 14 | 21 7 | 1 55 | 19 31 | 19 46 | 17 56 | 5 22 | 2 27 |
| S 25 | 0 58 | 3 11 | 4 57 | 8 39 | 0 45 | 9 33 | 0 25 | 9 32 | 0 10 | 16 31 | 1 11 | 20 5 | 1 55 | 1 46 | 0 45 | 16 53 | 0 14 | 21 7 | 1 55 | 19 29 | 19 45 | 17 54 | 5 21 | 2 27 |
| S 26 | 1 21 | 1s21 | 4 34 | 9 19 | 0 52 | 10 2 | 0 23 | 9 47 | 0 9 | 16 32 | 1 11 | 20 4 | 1 55 | 1 45 | 0 45 | 16 54 | 0 14 | 21 7 | 1 55 | 19 27 | 19 44 | 17 53 | 5 20 | 2 27 |
| M27 | 1 45 | 5 55 | 3 57 | 9 59 | 1 0 | 10 31 | 0 20 | 10 3 | 0 9 | 16 33 | 1 10 | 20 4 | 1 55 | 1 44 | 0 45 | 16 54 | 0 14 | 21 7 | 1 55 | 19 25 | 19 44 | 17 51 | 5 19 | 2 27 |
| T 28 | 2 8 | 10 18 | 3 7 | 10 38 | 1 7 | 10 59 | 0 18 | 10 18 | 0 8 | 16 34 | 1 10 | 20 4 | 1 55 | 1 44 | 0 45 | 16 54 | 0 14 | 21 7 | 1 55 | 19 23 | 19 43 | 17 50 | 5 18 | 2 27 |
| W29 | 2 32 | 14 14 | 2 6 | 11 16 | 1 14 | 11 28 | 0 15 | 10 33 | 0 7 | 16 35 | 1 10 | 20 4 | 1 56 | 1 43 | 0 45 | 16 54 | 0 14 | 21 7 | 1 55 | 19 22 | 19 42 | 17 48 | 5 16 | 2 26 |
| T 30 | 2s55 | 17s29 | 0s56 | 11s54 | 1s21 | 11s56 | 0n12 | 10s48 | 0n 7 | 16s36 | 1s10 | 20n 4 | 1s56 | 1n42 | 0s45 | 16s55 | 0s14 | 21n 7 | 1s55 | 19s21 | 19s42 | 17n47 | 5n15 | 2n26 |

Julian Day Number = 2333815.5, Delta T = 25.01 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'27, Lahiri = 19°21'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## OCTOBER 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 41 4 | 8♎20'16 | 29♏27 | 29♎ 0 | 3♏ 3 | 29♎ 2 | 17°R54 | 9°R51 | 5°R56 | 13°R52 | 11♋ 6 | 26°D16 | 27♏42 | 21♋ 0 | 7°R32 | F 1 |
| S 2 | 0 45 0 | 9°19'29 | 13♐17 | 0♏23 | 4°17 | 29°43 | 17♒52 | 9♊50 | 5♈54 | 13♒51 | 11° 6 | 26♏17 | 27°39 | 21° 7 | 7♈30 | S 2 |
| S 3 | 0 48 57 | 10°18'44 | 27°15 | 1°46 | 5°31 | 0♏24 | 17°50 | 9°48 | 5°51 | 13°50 | 11° 7 | 26°18 | 27°36 | 21°13 | 7°27 | S 3 |
| M 4 | 0 52 54 | 11°18'01 | 11♑20 | 3° 7 | 6°45 | 1° 5 | 17°48 | 9°47 | 5°49 | 13°50 | 11° 7 | 26°R19 | 27°33 | 21°20 | 7°24 | M 4 |
| T 5 | 0 56 50 | 12°17'20 | 25°32 | 4°27 | 7°59 | 1°46 | 17°46 | 9°46 | 5°46 | 13°49 | 11° 7 | 26°18 | 27°29 | 21°27 | 7°21 | T 5 |
| W 6 | 1 0 47 | 13°16'41 | 9♒48 | 5°46 | 9°13 | 2°28 | 17°44 | 9°44 | 5°44 | 13°48 | 11° 7 | 26°16 | 27°26 | 21°34 | 7°18 | W 6 |
| T 7 | 1 4 43 | 14°16'03 | 24° 5 | 7° 4 | 10°26 | 3° 9 | 17°43 | 9°42 | 5°41 | 13°48 | 11° 7 | 26°11 | 27°23 | 21°40 | 7°16 | T 7 |
| F 8 | 1 8 40 | 15°15'27 | 8♓20 | 8°20 | 11°40 | 3°50 | 17°42 | 9°41 | 5°39 | 13°47 | 11° 7 | 26° 5 | 27°20 | 21°47 | 7°13 | F 8 |
| S 9 | 1 12 36 | 16°14'52 | 22°28 | 9°35 | 12°54 | 4°31 | 17°41 | 9°39 | 5°37 | 13°47 | 11° 7 | 25°59 | 27°17 | 21°54 | 7°10 | S 9 |
| S 10 | 1 16 33 | 17°14'20 | 6♈24 | 10°49 | 14° 8 | 5°13 | 17°40 | 9°37 | 5°34 | 13°46 | 11° 7 | 25°52 | 27°14 | 22° 0 | 7° 7 | S 10 |
| M11 | 1 20 29 | 18°13'50 | 20° 5 | 12° 1 | 15°22 | 5°54 | 17°40 | 9°35 | 5°32 | 13°46 | 11°R 7 | 25°47 | 27°10 | 22° 7 | 7° 4 | M11 |
| T 12 | 1 24 26 | 19°13'22 | 3♉27 | 13°11 | 16°35 | 6°36 | 17°39 | 9°33 | 5°30 | 13°45 | 11° 7 | 25°43 | 27° 7 | 22°14 | 7° 2 | T 12 |
| W13 | 1 28 23 | 20°12'55 | 16°29 | 14°19 | 17°49 | 7°17 | 17°D39 | 9°30 | 5°27 | 13°45 | 11° 7 | 25°41 | 27° 4 | 22°20 | 6°59 | W13 |
| T 14 | 1 32 19 | 21°12'32 | 29°12 | 15°25 | 19° 3 | 7°59 | 17°39 | 9°28 | 5°25 | 13°44 | 11° 7 | 25°D41 | 27° 1 | 22°27 | 6°56 | T 14 |
| F 15 | 1 36 16 | 22°12'10 | 11♊37 | 16°29 | 20°17 | 8°41 | 17°40 | 9°26 | 5°23 | 13°44 | 11° 7 | 25°42 | 26°58 | 22°34 | 6°54 | F 15 |
| S 16 | 1 40 12 | 23°11'50 | 23°46 | 17°30 | 21°31 | 9°22 | 17°40 | 9°23 | 5°20 | 13°44 | 11° 7 | 25°44 | 26°54 | 22°41 | 6°51 | S 16 |
| S 17 | 1 44 9 | 24°11'33 | 5♋45 | 18°29 | 22°44 | 10° 4 | 17°41 | 9°20 | 5°18 | 13°43 | 11° 7 | 25°45 | 26°51 | 22°47 | 6°48 | S 17 |
| M18 | 1 48 5 | 25°11'18 | 17°38 | 19°25 | 23°58 | 10°46 | 17°42 | 9°18 | 5°16 | 13°43 | 11° 7 | 25°47 | 26°48 | 22°54 | 6°46 | M18 |
| T 19 | 1 52 2 | 26°11'06 | 29°29 | 20°17 | 25°12 | 11°28 | 17°43 | 9°15 | 5°14 | 13°43 | 11° 7 | 25°R47 | 26°45 | 23° 1 | 6°43 | T 19 |
| W20 | 1 55 58 | 27°10'55 | 11♌24 | 21° 6 | 26°25 | 12°10 | 17°44 | 9°12 | 5°12 | 13°43 | 11° 6 | 25°46 | 26°42 | 23° 7 | 6°40 | W20 |
| T 21 | 1 59 55 | 28°10'47 | 23°27 | 21°50 | 27°39 | 12°52 | 17°45 | 9° 9 | 5° 9 | 13°42 | 11° 6 | 25°44 | 26°39 | 23°14 | 6°38 | T 21 |
| F 22 | 2 3 51 | 29°10'41 | 5♍42 | 22°30 | 28°53 | 13°34 | 17°47 | 9° 6 | 5° 7 | 13°42 | 11° 6 | 25°40 | 26°35 | 23°21 | 6°35 | F 22 |
| S 23 | 2 7 48 | 0♏10'37 | 18°14 | 23° 5 | 0♐ 6 | 14°16 | 17°49 | 9° 3 | 5° 5 | 13°42 | 11° 6 | 25°36 | 26°32 | 23°27 | 6°33 | S 23 |
| S 24 | 2 11 45 | 1°10'35 | 1♎ 4 | 23°34 | 1°20 | 14°58 | 17°51 | 8°59 | 5° 3 | 13°42 | 11° 5 | 25°32 | 26°29 | 23°34 | 6°30 | S 24 |
| M25 | 2 15 41 | 2°10'35 | 14°13 | 23°57 | 2°34 | 15°41 | 17°53 | 8°56 | 5° 1 | 13°D42 | 11° 5 | 25°28 | 26°26 | 23°41 | 6°28 | M25 |
| T 26 | 2 19 38 | 3°10'37 | 27°40 | 24°14 | 3°47 | 16°23 | 17°56 | 8°52 | 4°59 | 13°42 | 11° 5 | 25°25 | 26°23 | 23°48 | 6°25 | T 26 |
| W27 | 2 23 34 | 4°10'42 | 11♏25 | 24°23 | 5° 1 | 17° 5 | 17°58 | 8°49 | 4°57 | 13°42 | 11° 4 | 25°24 | 26°19 | 23°54 | 6°23 | W27 |
| T 28 | 2 27 31 | 5°10'48 | 25°23 | 24°R24 | 6°15 | 17°48 | 18° 1 | 8°45 | 4°55 | 13°42 | 11° 4 | 25°D23 | 26°16 | 24° 1 | 6°21 | T 28 |
| F 29 | 2 31 27 | 6°10'56 | 9♐32 | 24°16 | 7°28 | 18°30 | 18° 4 | 8°42 | 4°53 | 13°42 | 11° 4 | 25°24 | 26°13 | 24° 8 | 6°18 | F 29 |
| S 30 | 2 35 24 | 7°11'05 | 23°47 | 23°59 | 8°42 | 19°13 | 18° 7 | 8°38 | 4°51 | 13°42 | 11° 3 | 25°25 | 26°10 | 24°14 | 6°16 | S 30 |
| S 31 | 2 39 20 | 8♏11'16 | 8♑ 4 | 23♏33 | 9♐55 | 19♏56 | 18♒11 | 8♊34 | 4♈49 | 13♒43 | 11♋ 3 | 25♏26 | 26♏ 7 | 24♋21 | 6♈14 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3s19 | 19s47 | 0n17 | 12s31 | 1s28 | 12s24 | 0n10 | 11s 3 | 0n 6 | 16s36 | 1s10 | 20n 3 | 1s56 | 1n41 | 0s45 | 16s55 | 0s14 | 21n 7 | 1s55 | 19s21 | 19s41 | 17n45 | 5n14 | 2n26 |
| S 2 | 3 42 | 20 56 | 1 31 | 13 7 | 1 35 | 12 52 | 0 7 | 11 19 | 0 5 | 16 37 | 1 10 | 20 3 | 1 56 | 1 40 | 0 45 | 16 55 | 0 14 | 21 7 | 1 55 | 19 21 | 19 40 | 17 44 | 5 13 | 2 26 |
| S 3 | 4 5 | 20 48 | 2 39 | 13 42 | 1 42 | 13 19 | 0 4 | 11 34 | 0 5 | 16 37 | 1 10 | 20 3 | 1 56 | 1 39 | 0 45 | 16 55 | 0 14 | 21 7 | 1 55 | 19 22 | 19 39 | 17 42 | 5 12 | 2 26 |
| M 4 | 4 29 | 19 21 | 3 39 | 14 16 | 1 49 | 13 46 | 0 1 | 11 48 | 0 4 | 16 38 | 1 10 | 20 2 | 1 56 | 1 38 | 0 45 | 16 55 | 0 14 | 21 7 | 1 55 | 19 22 | 19 39 | 17 41 | 5 11 | 2 26 |
| T 5 | 4 52 | 16 43 | 4 26 | 14 50 | 1 55 | 14 13 | 0s 1 | 12 3 | 0 4 | 16 38 | 1 10 | 20 2 | 1 56 | 1 37 | 0 45 | 16 56 | 0 14 | 21 7 | 1 55 | 19 22 | 19 38 | 17 39 | 5 9 | 2 26 |
| W 6 | 5 15 | 13 3 | 4 57 | 15 23 | 2 2 | 14 39 | 0 4 | 12 18 | 0 3 | 16 39 | 1 10 | 20 2 | 1 56 | 1 36 | 0 45 | 16 56 | 0 14 | 21 7 | 1 55 | 19 21 | 19 37 | 17 38 | 5 8 | 2 26 |
| T 7 | 5 38 | 8 39 | 5 9 | 15 55 | 2 8 | 15 5 | 0 7 | 12 33 | 0 2 | 16 39 | 1 9 | 20 1 | 1 57 | 1 35 | 0 45 | 16 56 | 0 14 | 21 7 | 1 55 | 19 20 | 19 37 | 17 36 | 5 7 | 2 26 |
| F 8 | 6 1 | 3 47 | 5 2 | 16 25 | 2 14 | 15 31 | 0 10 | 12 47 | 0 2 | 16 39 | 1 9 | 20 1 | 1 57 | 1 34 | 0 45 | 16 56 | 0 14 | 21 7 | 1 55 | 19 19 | 19 36 | 17 35 | 5 6 | 2 26 |
| S 9 | 6 24 | 1n15 | 4 37 | 16 55 | 2 20 | 15 56 | 0 13 | 13 2 | 0 1 | 16 39 | 1 9 | 20 1 | 1 57 | 1 33 | 0 45 | 16 56 | 0 14 | 21 7 | 1 55 | 19 17 | 19 35 | 17 33 | 5 5 | 2 26 |
| S 10 | 6 47 | 6 9 | 3 56 | 17 24 | 2 25 | 16 21 | 0 15 | 13 17 | 0 0 | 16 39 | 1 9 | 20 0 | 1 57 | 1 32 | 0 45 | 16 57 | 0 14 | 21 7 | 1 55 | 19 15 | 19 34 | 17 31 | 5 3 | 2 25 |
| M11 | 7 10 | 10 40 | 3 2 | 17 51 | 2 31 | 16 46 | 0 18 | 13 31 | 0s 0 | 16 40 | 1 9 | 20 0 | 1 57 | 1 31 | 0 45 | 16 57 | 0 14 | 21 7 | 1 55 | 19 14 | 19 34 | 17 30 | 5 2 | 2 25 |
| T 12 | 7 32 | 14 32 | 1 58 | 18 18 | 2 36 | 17 10 | 0 21 | 13 45 | 0 1 | 16 40 | 1 9 | 19 59 | 1 57 | 1 30 | 0 45 | 16 57 | 0 14 | 21 7 | 1 55 | 19 13 | 19 33 | 17 28 | 5 1 | 2 25 |
| W13 | 7 55 | 17 36 | 0 50 | 18 43 | 2 41 | 17 33 | 0 24 | 13 59 | 0 1 | 16 39 | 1 9 | 19 59 | 1 57 | 1 29 | 0 45 | 16 57 | 0 14 | 21 7 | 1 55 | 19 13 | 19 32 | 17 27 | 5 0 | 2 25 |
| T 14 | 8 17 | 19 42 | 0s19 | 19 7 | 2 45 | 17 56 | 0 27 | 14 14 | 0 2 | 16 39 | 1 9 | 19 58 | 1 57 | 1 29 | 0 44 | 16 57 | 0 14 | 21 7 | 1 55 | 19 13 | 19 31 | 17 25 | 4 59 | 2 25 |
| F 15 | 8 40 | 20 48 | 1 26 | 19 29 | 2 49 | 18 19 | 0 30 | 14 28 | 0 3 | 16 39 | 1 8 | 19 58 | 1 57 | 1 28 | 0 44 | 16 57 | 0 14 | 21 7 | 1 54 | 19 13 | 19 31 | 17 24 | 4 58 | 2 25 |
| S 16 | 9 2 | 20 53 | 2 28 | 19 50 | 2 52 | 18 41 | 0 32 | 14 42 | 0 3 | 16 39 | 1 8 | 19 58 | 1 57 | 1 27 | 0 44 | 16 57 | 0 14 | 21 7 | 1 54 | 19 13 | 19 30 | 17 22 | 4 56 | 2 25 |
| S 17 | 9 24 | 20 0 | 3 22 | 20 10 | 2 55 | 19 3 | 0 35 | 14 55 | 0 4 | 16 38 | 1 8 | 19 57 | 1 58 | 1 26 | 0 44 | 16 57 | 0 14 | 21 7 | 1 54 | 19 14 | 19 29 | 17 21 | 4 55 | 2 25 |
| M18 | 9 46 | 18 14 | 4 7 | 20 28 | 2 58 | 19 25 | 0 38 | 15 9 | 0 4 | 16 38 | 1 8 | 19 57 | 1 58 | 1 25 | 0 44 | 16 57 | 0 14 | 21 7 | 1 54 | 19 14 | 19 28 | 17 19 | 4 54 | 2 25 |
| T 19 | 10 8 | 15 42 | 4 41 | 20 44 | 3 0 | 19 45 | 0 41 | 15 23 | 0 5 | 16 38 | 1 8 | 19 56 | 1 58 | 1 24 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 14 | 19 28 | 17 17 | 4 53 | 2 24 |
| W20 | 10 29 | 12 31 | 5 4 | 20 58 | 3 1 | 20 6 | 0 44 | 15 36 | 0 6 | 16 37 | 1 8 | 19 56 | 1 58 | 1 23 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 14 | 19 27 | 17 16 | 4 52 | 2 24 |
| T 21 | 10 51 | 8 47 | 5 13 | 21 11 | 3 2 | 20 25 | 0 46 | 15 50 | 0 6 | 16 37 | 1 8 | 19 55 | 1 58 | 1 22 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 13 | 19 26 | 17 14 | 4 51 | 2 24 |
| F 22 | 11 12 | 4 39 | 5 9 | 21 21 | 3 2 | 20 45 | 0 49 | 16 3 | 0 7 | 16 36 | 1 7 | 19 54 | 1 58 | 1 22 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 13 | 19 26 | 17 13 | 4 49 | 2 24 |
| S 23 | 11 33 | 0 13 | 4 50 | 21 29 | 3 1 | 21 3 | 0 52 | 16 16 | 0 8 | 16 35 | 1 7 | 19 54 | 1 58 | 1 21 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 12 | 19 25 | 17 11 | 4 48 | 2 24 |
| S 24 | 11 54 | 4s20 | 4 16 | 21 35 | 2 59 | 21 21 | 0 55 | 16 29 | 0 8 | 16 34 | 1 7 | 19 53 | 1 58 | 1 20 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 11 | 19 24 | 17 10 | 4 47 | 2 24 |
| M25 | 12 15 | 8 48 | 3 28 | 21 37 | 2 55 | 21 39 | 0 57 | 16 42 | 0 9 | 16 34 | 1 7 | 19 53 | 1 58 | 1 19 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 10 | 19 23 | 17 8 | 4 46 | 2 24 |
| T 26 | 12 36 | 12 57 | 2 27 | 21 38 | 2 51 | 21 56 | 1 0 | 16 55 | 0 9 | 16 33 | 1 7 | 19 52 | 1 58 | 1 18 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 9 | 19 23 | 17 6 | 4 45 | 2 24 |
| W27 | 12 56 | 16 29 | 1 16 | 21 34 | 2 46 | 22 12 | 1 3 | 17 8 | 0 10 | 16 32 | 1 7 | 19 52 | 1 58 | 1 18 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 9 | 19 22 | 17 5 | 4 44 | 2 23 |
| T 28 | 13 16 | 19 8 | 0 0 | 21 28 | 2 39 | 22 28 | 1 6 | 17 20 | 0 11 | 16 31 | 1 7 | 19 51 | 1 58 | 1 17 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 9 | 19 21 | 17 3 | 4 43 | 2 23 |
| F 29 | 13 36 | 20 39 | 1n17 | 21 18 | 2 31 | 22 43 | 1 8 | 17 33 | 0 11 | 16 30 | 1 7 | 19 50 | 1 58 | 1 16 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 9 | 19 20 | 17 2 | 4 42 | 2 23 |
| S 30 | 13 56 | 20 50 | 2 30 | 21 4 | 2 21 | 22 57 | 1 11 | 17 45 | 0 12 | 16 29 | 1 6 | 19 50 | 1 59 | 1 15 | 0 44 | 16 58 | 0 14 | 21 7 | 1 54 | 19 9 | 19 20 | 17 0 | 4 41 | 2 23 |
| S 31 | 14s16 | 19s40 | 3n35 | 20s46 | 2s 9 | 23s11 | 1s13 | 17s57 | 0s12 | 16s27 | 1s 6 | 19n49 | 1s59 | 1n15 | 0s44 | 16s58 | 0s14 | 21n 7 | 1s54 | 19s 9 | 19s19 | 16n58 | 4n40 | 2n23 |

Julian Day Number = 2333845.5, Delta T = 24.97 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'32, Lahiri = 19°21'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## NOVEMBER 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 43 17 | 9♏11'29 | 22♑21 | 22°R57 | 11♐ 9 | 20♏38 | 18♒15 | 8°R30 | 4°R47 | 13♒43 | 11°R 2 | 25♏27 | 26♏ 4 | 24♋28 | 6°R11 | M 1 |
| T 2 | 2 47 14 | 10°11'43 | 6♒34 | 22♏11 | 12°22 | 21°21 | 18°18 | 8♊26 | 4♈45 | 13°43 | 11♋ 2 | 25°R28 | 26° 0 | 24°34 | 6♈ 9 | T 2 |
| W 3 | 2 51 10 | 11°11'59 | 20°42 | 21°16 | 13°36 | 22° 4 | 18°22 | 8°22 | 4°43 | 13°43 | 11° 1 | 25°28 | 25°57 | 24°41 | 6° 7 | W 3 |
| T 4 | 2 55 7 | 12°12'16 | 4♓42 | 20°12 | 14°49 | 22°46 | 18°27 | 8°18 | 4°42 | 13°44 | 11° 1 | 25°27 | 25°54 | 24°48 | 6° 5 | T 4 |
| F 5 | 2 59 3 | 13°12'34 | 18°33 | 19° 1 | 16° 3 | 23°29 | 18°31 | 8°14 | 4°40 | 13°44 | 11° 0 | 25°25 | 25°51 | 24°55 | 6° 3 | F 5 |
| S 6 | 3 3 0 | 14°12'54 | 2♈13 | 17°45 | 17°16 | 24°12 | 18°36 | 8° 9 | 4°38 | 13°44 | 10°59 | 25°24 | 25°48 | 25° 1 | 6° 1 | S 6 |
| S 7 | 3 6 56 | 15°13'16 | 15°42 | 16°25 | 18°30 | 24°55 | 18°40 | 8° 5 | 4°36 | 13°45 | 10°59 | 25°22 | 25°45 | 25° 8 | 5°59 | S 7 |
| M 8 | 3 10 53 | 16°13'39 | 28°56 | 15° 5 | 19°43 | 25°38 | 18°45 | 8° 1 | 4°35 | 13°45 | 10°58 | 25°21 | 25°41 | 25°15 | 5°57 | M 8 |
| T 9 | 3 14 49 | 17°14'03 | 11♉57 | 13°47 | 20°56 | 26°21 | 18°50 | 7°56 | 4°33 | 13°46 | 10°58 | 25°21 | 25°38 | 25°21 | 5°55 | T 9 |
| W10 | 3 18 46 | 18°14'30 | 24°43 | 12°33 | 22°10 | 27° 5 | 18°56 | 7°52 | 4°32 | 13°46 | 10°57 | 25°D20 | 25°35 | 25°28 | 5°53 | W10 |
| T 11 | 3 22 43 | 19°14'57 | 7♊14 | 11°25 | 23°23 | 27°48 | 19° 1 | 7°47 | 4°30 | 13°47 | 10°56 | 25°21 | 25°32 | 25°35 | 5°51 | T 11 |
| F 12 | 3 26 39 | 20°15'27 | 19°33 | 10°27 | 24°36 | 28°31 | 19° 7 | 7°43 | 4°29 | 13°47 | 10°55 | 25°21 | 25°29 | 25°41 | 5°49 | F 12 |
| S 13 | 3 30 36 | 21°15'58 | 1♋39 | 9°39 | 25°49 | 29°14 | 19°12 | 7°38 | 4°27 | 13°48 | 10°55 | 25°21 | 25°25 | 25°48 | 5°47 | S 13 |
| S 14 | 3 34 32 | 22°16'31 | 13°37 | 9° 2 | 27° 3 | 29°58 | 19°18 | 7°34 | 4°26 | 13°49 | 10°54 | 25°22 | 25°22 | 25°55 | 5°46 | S 14 |
| M15 | 3 38 29 | 23°17'06 | 25°30 | 8°36 | 28°16 | 0♐41 | 19°25 | 7°29 | 4°24 | 13°49 | 10°53 | 25°22 | 25°19 | 26° 2 | 5°44 | M15 |
| T 16 | 3 42 25 | 24°17'42 | 7♌21 | 8°23 | 29°29 | 1°25 | 19°31 | 7°24 | 4°23 | 13°50 | 10°52 | 25°22 | 25°16 | 26° 8 | 5°42 | T 16 |
| W17 | 3 46 22 | 25°18'21 | 19°15 | 8°D20 | 0♑42 | 2° 8 | 19°37 | 7°19 | 4°22 | 13°51 | 10°52 | 25°22 | 25°13 | 26°15 | 5°41 | W17 |
| T 18 | 3 50 18 | 26°19'00 | 1♍16 | 8°29 | 1°55 | 2°52 | 19°44 | 7°15 | 4°21 | 13°52 | 10°51 | 25°22 | 25°10 | 26°22 | 5°39 | T 18 |
| F 19 | 3 54 15 | 27°19'42 | 13°30 | 8°47 | 3° 8 | 3°35 | 19°51 | 7°10 | 4°19 | 13°52 | 10°50 | 25°22 | 25° 6 | 26°28 | 5°38 | F 19 |
| S 20 | 3 58 12 | 28°20'25 | 26° 0 | 9°15 | 4°21 | 4°19 | 19°58 | 7° 5 | 4°18 | 13°53 | 10°49 | 25°23 | 25° 3 | 26°35 | 5°36 | S 20 |
| S 21 | 4 2 8 | 29°21'09 | 8♎50 | 9°51 | 5°34 | 5° 3 | 20° 5 | 7° 0 | 4°17 | 13°54 | 10°48 | 25°23 | 25° 0 | 26°42 | 5°35 | S 21 |
| M22 | 4 6 5 | 0♐21'56 | 22° 4 | 10°34 | 6°47 | 5°47 | 20°12 | 6°55 | 4°16 | 13°55 | 10°47 | 25°24 | 24°57 | 26°49 | 5°33 | M22 |
| T 23 | 4 10 1 | 1°22'43 | 5♏41 | 11°24 | 8° 0 | 6°31 | 20°20 | 6°50 | 4°15 | 13°56 | 10°46 | 25°24 | 24°54 | 26°55 | 5°32 | T 23 |
| W24 | 4 13 58 | 2°23'32 | 19°42 | 12°19 | 9°13 | 7°15 | 20°27 | 6°45 | 4°14 | 13°57 | 10°45 | 25°R24 | 24°51 | 27° 2 | 5°31 | W24 |
| T 25 | 4 17 54 | 3°24'23 | 4♐ 3 | 13°20 | 10°26 | 7°59 | 20°35 | 6°40 | 4°13 | 13°58 | 10°45 | 25°24 | 24°47 | 27° 9 | 5°30 | T 25 |
| F 26 | 4 21 51 | 4°25'15 | 18°39 | 14°25 | 11°39 | 8°43 | 20°43 | 6°35 | 4°12 | 13°59 | 10°44 | 25°24 | 24°44 | 27°15 | 5°29 | F 26 |
| S 27 | 4 25 47 | 5°26'08 | 3♑23 | 15°34 | 12°52 | 9°27 | 20°51 | 6°31 | 4°12 | 14° 0 | 10°43 | 25°23 | 24°41 | 27°22 | 5°28 | S 27 |
| S 28 | 4 29 44 | 6°27'02 | 18° 9 | 16°46 | 14° 4 | 10°11 | 20°59 | 6°26 | 4°11 | 14° 1 | 10°42 | 25°22 | 24°38 | 27°29 | 5°27 | S 28 |
| M29 | 4 33 41 | 7°27'56 | 2♒49 | 18° 1 | 15°17 | 10°55 | 21° 8 | 6°21 | 4°10 | 14° 2 | 10°41 | 25°20 | 24°35 | 27°35 | 5°26 | M29 |
| T 30 | 4 37 37 | 8♐28'52 | 17♒18 | 19♏18 | 16♑30 | 11♐39 | 21♒16 | 6♊16 | 4♈ 9 | 14♒ 4 | 10♋40 | 25♏19 | 24♏31 | 27♋42 | 5♈25 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 14s35 | 17s16 | 4n25 | 20s24 | 1s56 | 23s24 | 1s16 | 18s 9 | 0s13 | 16s26 | 1s 6 | 19n48 | 1s59 | 1n14 | 0s44 | 16s58 | 0s14 | 21n 7 | 1s54 | 19s 9 | 19s18 | 16n57 | 4n39 | 2n23 |
| T 2 | 14 54 | 13 50 | 4 59 | 19 58 | 1 41 | 23 37 | 1 18 | 18 21 | 0 14 | 16 25 | 1 6 | 19 48 | 1 59 | 1 13 | 0 44 | 16 57 | 0 14 | 21 7 | 1 54 | 19 10 | 19 17 | 16 55 | 4 38 | 2 23 |
| W 3 | 15 13 | 9 38 | 5 15 | 19 28 | 1 24 | 23 48 | 1 21 | 18 33 | 0 14 | 16 23 | 1 6 | 19 47 | 1 59 | 1 12 | 0 44 | 16 57 | 0 14 | 21 7 | 1 54 | 19 10 | 19 17 | 16 53 | 4 37 | 2 22 |
| T 4 | 15 31 | 4 57 | 5 12 | 18 53 | 1 6 | 24 0 | 1 23 | 18 44 | 0 15 | 16 22 | 1 6 | 19 46 | 1 59 | 1 12 | 0 44 | 16 57 | 0 14 | 21 8 | 1 54 | 19 9 | 19 16 | 16 52 | 4 36 | 2 22 |
| F 5 | 15 50 | 0 4 | 4 51 | 18 16 | 0 47 | 24 10 | 1 26 | 18 56 | 0 15 | 16 20 | 1 6 | 19 46 | 1 59 | 1 11 | 0 44 | 16 57 | 0 14 | 21 8 | 1 54 | 19 9 | 19 15 | 16 50 | 4 35 | 2 22 |
| S 6 | 16 8 | 4n46 | 4 14 | 17 35 | 0 27 | 24 20 | 1 28 | 19 7 | 0 16 | 16 19 | 1 5 | 19 45 | 1 59 | 1 10 | 0 44 | 16 57 | 0 14 | 21 8 | 1 54 | 19 9 | 19 14 | 16 49 | 4 34 | 2 22 |
| S 7 | 16 26 | 9 18 | 3 22 | 16 53 | 0 6 | 24 29 | 1 30 | 19 18 | 0 17 | 16 17 | 1 5 | 19 44 | 1 59 | 1 10 | 0 44 | 16 57 | 0 14 | 21 8 | 1 54 | 19 8 | 19 14 | 16 47 | 4 33 | 2 22 |
| M 8 | 16 43 | 13 19 | 2 21 | 16 10 | 0n14 | 24 37 | 1 32 | 19 29 | 0 17 | 16 16 | 1 5 | 19 44 | 1 59 | 1 9 | 0 44 | 16 57 | 0 14 | 21 8 | 1 54 | 19 8 | 19 13 | 16 45 | 4 32 | 2 22 |
| T 9 | 17 0 | 16 37 | 1 14 | 15 27 | 0 34 | 24 45 | 1 35 | 19 40 | 0 18 | 16 14 | 1 5 | 19 43 | 1 59 | 1 8 | 0 44 | 16 57 | 0 14 | 21 8 | 1 54 | 19 8 | 19 12 | 16 44 | 4 31 | 2 21 |
| W10 | 17 17 | 19 2 | 0 3 | 14 46 | 0 54 | 24 51 | 1 37 | 19 50 | 0 18 | 16 12 | 1 5 | 19 42 | 1 59 | 1 8 | 0 44 | 16 57 | 0 14 | 21 8 | 1 54 | 19 8 | 19 11 | 16 42 | 4 30 | 2 21 |
| T 11 | 17 34 | 20 29 | 1s 6 | 14 9 | 1 12 | 24 58 | 1 39 | 20 1 | 0 19 | 16 10 | 1 5 | 19 41 | 1 59 | 1 7 | 0 44 | 16 56 | 0 14 | 21 8 | 1 54 | 19 8 | 19 11 | 16 40 | 4 29 | 2 21 |
| F 12 | 17 50 | 20 54 | 2 10 | 13 35 | 1 28 | 25 3 | 1 41 | 20 11 | 0 20 | 16 8 | 1 5 | 19 41 | 1 59 | 1 7 | 0 44 | 16 56 | 0 14 | 21 8 | 1 54 | 19 8 | 19 10 | 16 39 | 4 28 | 2 21 |
| S 13 | 18 6 | 20 20 | 3 8 | 13 6 | 1 43 | 25 8 | 1 43 | 20 21 | 0 20 | 16 6 | 1 4 | 19 40 | 1 59 | 1 6 | 0 44 | 16 56 | 0 14 | 21 8 | 1 54 | 19 8 | 19 9 | 16 37 | 4 27 | 2 21 |
| S 14 | 18 22 | 18 51 | 3 57 | 12 43 | 1 55 | 25 12 | 1 45 | 20 31 | 0 21 | 16 4 | 1 4 | 19 39 | 1 59 | 1 6 | 0 44 | 16 56 | 0 14 | 21 8 | 1 54 | 19 8 | 19 8 | 16 36 | 4 26 | 2 21 |
| M15 | 18 38 | 16 34 | 4 35 | 12 25 | 2 6 | 25 15 | 1 47 | 20 41 | 0 21 | 16 2 | 1 4 | 19 39 | 1 59 | 1 5 | 0 44 | 16 56 | 0 14 | 21 8 | 1 54 | 19 8 | 19 8 | 16 34 | 4 26 | 2 20 |
| T 16 | 18 53 | 13 36 | 5 2 | 12 12 | 2 14 | 25 17 | 1 48 | 20 50 | 0 22 | 16 0 | 1 4 | 19 38 | 1 59 | 1 5 | 0 44 | 16 55 | 0 14 | 21 8 | 1 54 | 19 8 | 19 7 | 16 32 | 4 25 | 2 20 |
| W17 | 19 7 | 10 4 | 5 16 | 12 5 | 2 21 | 25 19 | 1 50 | 21 0 | 0 23 | 15 58 | 1 4 | 19 37 | 1 59 | 1 4 | 0 44 | 16 55 | 0 14 | 21 9 | 1 54 | 19 8 | 19 6 | 16 31 | 4 24 | 2 20 |
| T 18 | 19 22 | 6 7 | 5 16 | 12 4 | 2 25 | 25 20 | 1 52 | 21 9 | 0 23 | 15 56 | 1 4 | 19 36 | 1 59 | 1 4 | 0 44 | 16 55 | 0 14 | 21 9 | 1 54 | 19 8 | 19 5 | 16 29 | 4 23 | 2 20 |
| F 19 | 19 36 | 1 51 | 5 2 | 12 7 | 2 28 | 25 20 | 1 53 | 21 18 | 0 24 | 15 54 | 1 4 | 19 36 | 1 59 | 1 3 | 0 44 | 16 55 | 0 14 | 21 9 | 1 54 | 19 8 | 19 4 | 16 27 | 4 23 | 2 20 |
| S 20 | 19 49 | 2s35 | 4 33 | 12 14 | 2 30 | 25 19 | 1 55 | 21 26 | 0 24 | 15 51 | 1 4 | 19 35 | 1 59 | 1 3 | 0 44 | 16 55 | 0 14 | 21 9 | 1 54 | 19 8 | 19 4 | 16 26 | 4 22 | 2 19 |
| S 21 | 20 3 | 7 3 | 3 51 | 12 25 | 2 30 | 25 18 | 1 56 | 21 35 | 0 25 | 15 49 | 1 3 | 19 34 | 1 59 | 1 2 | 0 43 | 16 54 | 0 14 | 21 9 | 1 54 | 19 8 | 19 3 | 16 24 | 4 21 | 2 19 |
| M22 | 20 16 | 11 18 | 2 55 | 12 39 | 2 29 | 25 16 | 1 58 | 21 43 | 0 25 | 15 47 | 1 3 | 19 33 | 1 58 | 1 2 | 0 43 | 16 54 | 0 14 | 21 9 | 1 54 | 19 9 | 19 2 | 16 22 | 4 20 | 2 19 |
| T 23 | 20 28 | 15 8 | 1 47 | 12 56 | 2 27 | 25 13 | 1 59 | 21 52 | 0 26 | 15 44 | 1 3 | 19 33 | 1 58 | 1 2 | 0 43 | 16 54 | 0 14 | 21 9 | 1 54 | 19 9 | 19 1 | 16 21 | 4 20 | 2 19 |
| W24 | 20 40 | 18 12 | 0 32 | 13 16 | 2 25 | 25 9 | 2 0 | 22 0 | 0 27 | 15 41 | 1 3 | 19 32 | 1 58 | 1 1 | 0 43 | 16 53 | 0 14 | 21 9 | 1 54 | 19 9 | 19 1 | 16 19 | 4 19 | 2 19 |
| T 25 | 20 52 | 20 13 | 0n48 | 13 38 | 2 21 | 25 5 | 2 1 | 22 7 | 0 27 | 15 39 | 1 3 | 19 31 | 1 58 | 1 1 | 0 43 | 16 53 | 0 14 | 21 9 | 1 54 | 19 9 | 19 0 | 16 17 | 4 18 | 2 19 |
| F 26 | 21 4 | 20 55 | 2 5 | 14 1 | 2 17 | 25 0 | 2 2 | 22 15 | 0 28 | 15 36 | 1 3 | 19 30 | 1 58 | 1 1 | 0 43 | 16 53 | 0 14 | 21 9 | 1 54 | 19 9 | 18 59 | 16 16 | 4 18 | 2 18 |
| S 27 | 21 15 | 20 11 | 3 15 | 14 26 | 2 12 | 24 54 | 2 3 | 22 22 | 0 28 | 15 34 | 1 3 | 19 29 | 1 58 | 1 0 | 0 43 | 16 53 | 0 14 | 21 10 | 1 54 | 19 8 | 18 58 | 16 14 | 4 17 | 2 18 |
| S 28 | 21 25 | 18 5 | 4 12 | 14 51 | 2 6 | 24 48 | 2 4 | 22 29 | 0 29 | 15 31 | 1 3 | 19 29 | 1 58 | 1 0 | 0 43 | 16 52 | 0 14 | 21 10 | 1 54 | 19 8 | 18 58 | 16 12 | 4 17 | 2 18 |
| M29 | 21 36 | 14 49 | 4 53 | 15 18 | 2 0 | 24 40 | 2 5 | 22 36 | 0 29 | 15 28 | 1 2 | 19 28 | 1 58 | 1 0 | 0 43 | 16 52 | 0 14 | 21 10 | 1 54 | 19 8 | 18 57 | 16 11 | 4 16 | 2 18 |
| T 30 | 21s45 | 10s42 | 5n13 | 15s45 | 1n54 | 24s32 | 2s 6 | 22s43 | 0s30 | 15s25 | 1s 2 | 19n27 | 1s58 | 1n 0 | 0s43 | 16s52 | 0s14 | 21n10 | 1s53 | 19s 7 | 18s56 | 16n 9 | 4n15 | 2n18 |

Julian Day Number = 2333876.5, Delta T = 24.92 sec
Ecliptic obliquity = 23°28'47, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'36, Lahiri = 19°21'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1677
# geocentric

## DECEMBER 1677 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 41 34 | 9♐29'48 | 1♓31 | 20♏37 | 17♑42 | 12♐24 | 21♒25 | 6°R11 | 4°R 9 | 14♒ 5 | 10°R39 | 25°R18 | 24♏28 | 27♋49 | 5°R24 | W 1 |
| T 2 | 4 45 30 | 10°30'45 | 15°27 | 21°58 | 18°55 | 13° 8 | 21°34 | 6♊ 6 | 4♈ 8 | 14° 6 | 10♋37 | 25°D18 | 24°25 | 27°56 | 5♈23 | T 2 |
| F 3 | 4 49 27 | 11°31'42 | 29° 6 | 23°21 | 20° 7 | 13°52 | 21°42 | 6° 1 | 4° 8 | 14° 7 | 10°36 | 25♏19 | 24°22 | 28° 2 | 5°22 | F 3 |
| S 4 | 4 53 23 | 12°32'40 | 12♈27 | 24°45 | 21°20 | 14°37 | 21°51 | 5°56 | 4° 7 | 14° 9 | 10°35 | 25°20 | 24°19 | 28° 9 | 5°21 | S 4 |
| S 5 | 4 57 20 | 13°33'39 | 25°32 | 26°10 | 22°32 | 15°21 | 22° 1 | 5°51 | 4° 7 | 14°10 | 10°34 | 25°21 | 24°16 | 28°16 | 5°21 | S 5 |
| M 6 | 5 1 16 | 14°34'39 | 8♉23 | 27°36 | 23°45 | 16° 6 | 22°10 | 5°46 | 4° 6 | 14°11 | 10°33 | 25°23 | 24°12 | 28°22 | 5°20 | M 6 |
| T 7 | 5 5 13 | 15°35'39 | 21° 1 | 29° 3 | 24°57 | 16°50 | 22°19 | 5°41 | 4° 6 | 14°13 | 10°32 | 25°R23 | 24° 9 | 28°29 | 5°20 | T 7 |
| W 8 | 5 9 10 | 16°36'40 | 3♊28 | 0♐30 | 26° 9 | 17°35 | 22°29 | 5°37 | 4° 6 | 14°14 | 10°31 | 25°23 | 24° 6 | 28°36 | 5°19 | W 8 |
| T 9 | 5 13 6 | 17°37'42 | 15°45 | 1°59 | 27°21 | 18°20 | 22°39 | 5°32 | 4° 6 | 14°15 | 10°30 | 25°22 | 24° 3 | 28°43 | 5°19 | T 9 |
| F 10 | 5 17 3 | 18°38'44 | 27°54 | 3°27 | 28°33 | 19° 4 | 22°49 | 5°27 | 4° 5 | 14°17 | 10°29 | 25°19 | 24° 0 | 28°49 | 5°18 | F 10 |
| S 11 | 5 20 59 | 19°39'47 | 9♋55 | 4°57 | 29°45 | 19°49 | 22°59 | 5°22 | 4° 5 | 14°18 | 10°27 | 25°16 | 23°57 | 28°56 | 5°18 | S 11 |
| S 12 | 5 24 56 | 20°40'51 | 21°50 | 6°26 | 0♒57 | 20°34 | 23° 9 | 5°18 | 4° 5 | 14°20 | 10°26 | 25°11 | 23°53 | 29° 3 | 5°18 | S 12 |
| M13 | 5 28 52 | 21°41'56 | 3♌42 | 7°57 | 2° 9 | 21°19 | 23°19 | 5°13 | 4°D 5 | 14°21 | 10°25 | 25° 6 | 23°50 | 29° 9 | 5°18 | M13 |
| T 14 | 5 32 49 | 22°43'01 | 15°33 | 9°27 | 3°21 | 22° 4 | 23°29 | 5° 8 | 4° 5 | 14°23 | 10°24 | 25° 2 | 23°47 | 29°16 | 5°18 | T 14 |
| W15 | 5 36 46 | 23°44'07 | 27°26 | 10°58 | 4°32 | 22°49 | 23°39 | 5° 4 | 4° 5 | 14°25 | 10°23 | 24°58 | 23°44 | 29°23 | 5°17 | W15 |
| T 16 | 5 40 42 | 24°45'14 | 9♍25 | 12°29 | 5°44 | 23°34 | 23°50 | 4°59 | 4° 6 | 14°26 | 10°22 | 24°55 | 23°41 | 29°30 | 5°D17 | T 16 |
| F 17 | 5 44 39 | 25°46'21 | 21°35 | 14° 0 | 6°56 | 24°19 | 24° 1 | 4°55 | 4° 6 | 14°28 | 10°20 | 24°D54 | 23°37 | 29°36 | 5°17 | F 17 |
| S 18 | 5 48 35 | 26°47'30 | 4♎ 0 | 15°32 | 8° 7 | 25° 4 | 24°11 | 4°50 | 4° 6 | 14°29 | 10°19 | 24°54 | 23°34 | 29°43 | 5°18 | S 18 |
| S 19 | 5 52 32 | 27°48'38 | 16°44 | 17° 4 | 9°19 | 25°49 | 24°22 | 4°46 | 4° 6 | 14°31 | 10°18 | 24°55 | 23°31 | 29°50 | 5°18 | S 19 |
| M20 | 5 56 28 | 28°49'48 | 29°52 | 18°36 | 10°30 | 26°34 | 24°33 | 4°42 | 4° 7 | 14°33 | 10°17 | 24°57 | 23°28 | 29°56 | 5°18 | M20 |
| T 21 | 6 0 25 | 29°50'58 | 13♏26 | 20° 8 | 11°41 | 27°20 | 24°44 | 4°38 | 4° 7 | 14°35 | 10°15 | 24°59 | 23°25 | 0♌ 3 | 5°18 | T 21 |
| W22 | 6 4 21 | 0♑52'09 | 27°29 | 21°41 | 12°52 | 28° 5 | 24°56 | 4°33 | 4° 7 | 14°36 | 10°14 | 24°R59 | 23°22 | 0°10 | 5°19 | W22 |
| T 23 | 6 8 18 | 1°53'20 | 11♐58 | 23°14 | 14° 3 | 28°50 | 25° 7 | 4°29 | 4° 8 | 14°38 | 10°13 | 24°58 | 23°18 | 0°17 | 5°19 | T 23 |
| F 24 | 6 12 15 | 2°54'32 | 26°49 | 24°47 | 15°14 | 29°36 | 25°18 | 4°25 | 4° 9 | 14°40 | 10°12 | 24°55 | 23°15 | 0°23 | 5°19 | F 24 |
| S 25 | 6 16 11 | 3°55'44 | 11♑55 | 26°21 | 16°25 | 0♑21 | 25°30 | 4°21 | 4° 9 | 14°42 | 10°10 | 24°50 | 23°12 | 0°30 | 5°20 | S 25 |
| S 26 | 6 20 8 | 4°56'56 | 27° 6 | 27°55 | 17°36 | 1° 7 | 25°41 | 4°17 | 4°10 | 14°44 | 10° 9 | 24°44 | 23° 9 | 0°37 | 5°20 | S 26 |
| M27 | 6 24 4 | 5°58'08 | 12♒12 | 29°29 | 18°46 | 1°52 | 25°53 | 4°14 | 4°11 | 14°45 | 10° 8 | 24°37 | 23° 6 | 0°43 | 5°21 | M27 |
| T 28 | 6 28 1 | 6°59'19 | 27° 3 | 1♑ 3 | 19°57 | 2°38 | 26° 5 | 4°10 | 4°11 | 14°47 | 10° 7 | 24°31 | 23° 3 | 0°50 | 5°22 | T 28 |
| W29 | 6 31 57 | 8° 0'31 | 11♓33 | 2°38 | 21° 7 | 3°23 | 26°17 | 4° 6 | 4°12 | 14°49 | 10° 5 | 24°27 | 22°59 | 0°57 | 5°22 | W29 |
| T 30 | 6 35 54 | 9° 1'42 | 25°38 | 4°13 | 22°17 | 4° 9 | 26°29 | 4° 3 | 4°13 | 14°51 | 10° 4 | 24°24 | 22°56 | 1° 4 | 5°23 | T 30 |
| F 31 | 6 39 50 | 10♑ 2'52 | 9♈18 | 5♑49 | 23♒28 | 4♑55 | 26♒41 | 3♊59 | 4♈14 | 14♒53 | 10♋ 3 | 24°D23 | 22♏53 | 1♌10 | 5♈24 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21s55 | 6s 3 | 5n15 | 16s12 | 1n48 | 24s24 | 2s 6 | 22s49 | 0s31 | 15s22 | 1s 2 | 19n26 | 1s58 | 0n59 | 0s43 | 16s51 | 0s14 | 21n10 | 1s53 | 19s 7 | 18s55 | 16n 7 | 4n15 | 2n17 |
| T 2 | 22 4 | 1 10 | 4 57 | 16 40 | 1 41 | 24 14 | 2 7 | 22 56 | 0 31 | 15 19 | 1 2 | 19 26 | 1 58 | 0 59 | 0 43 | 16 51 | 0 14 | 21 10 | 1 53 | 19 7 | 18 54 | 16 6 | 4 14 | 2 17 |
| F 3 | 22 12 | 3n40 | 4 23 | 17 7 | 1 34 | 24 4 | 2 7 | 23 2 | 0 32 | 15 16 | 1 2 | 19 25 | 1 58 | 0 59 | 0 43 | 16 51 | 0 14 | 21 10 | 1 53 | 19 7 | 18 54 | 16 4 | 4 14 | 2 17 |
| S 4 | 22 20 | 8 14 | 3 36 | 17 35 | 1 27 | 23 53 | 2 8 | 23 7 | 0 32 | 15 13 | 1 2 | 19 24 | 1 58 | 0 59 | 0 43 | 16 50 | 0 14 | 21 10 | 1 53 | 19 8 | 18 53 | 16 2 | 4 13 | 2 17 |
| S 5 | 22 28 | 12 20 | 2 38 | 18 2 | 1 20 | 23 42 | 2 8 | 23 13 | 0 33 | 15 10 | 1 2 | 19 23 | 1 57 | 0 59 | 0 43 | 16 50 | 0 14 | 21 11 | 1 53 | 19 8 | 18 52 | 16 1 | 4 13 | 2 17 |
| M 6 | 22 35 | 15 47 | 1 33 | 18 29 | 1 12 | 23 30 | 2 8 | 23 18 | 0 33 | 15 7 | 1 2 | 19 23 | 1 57 | 0 59 | 0 43 | 16 49 | 0 14 | 21 11 | 1 53 | 19 8 | 18 51 | 15 59 | 4 13 | 2 16 |
| T 7 | 22 42 | 18 26 | 0 24 | 18 55 | 1 5 | 23 17 | 2 8 | 23 23 | 0 34 | 15 4 | 1 2 | 19 22 | 1 57 | 0 59 | 0 43 | 16 49 | 0 14 | 21 11 | 1 53 | 19 9 | 18 51 | 15 57 | 4 12 | 2 16 |
| W 8 | 22 48 | 20 9 | 0s44 | 19 21 | 0 58 | 23 3 | 2 8 | 23 28 | 0 34 | 15 1 | 1 2 | 19 21 | 1 57 | 0 59 | 0 43 | 16 49 | 0 14 | 21 11 | 1 53 | 19 9 | 18 50 | 15 55 | 4 12 | 2 16 |
| T 9 | 22 54 | 20 54 | 1 50 | 19 46 | 0 50 | 22 49 | 2 8 | 23 33 | 0 35 | 14 57 | 1 1 | 19 21 | 1 57 | 0 59 | 0 43 | 16 48 | 0 14 | 21 11 | 1 53 | 19 8 | 18 49 | 15 54 | 4 11 | 2 16 |
| F 10 | 23 0 | 20 38 | 2 49 | 20 11 | 0 43 | 22 35 | 2 8 | 23 37 | 0 36 | 14 54 | 1 1 | 19 20 | 1 57 | 0 58 | 0 43 | 16 48 | 0 14 | 21 11 | 1 53 | 19 8 | 18 48 | 15 52 | 4 11 | 2 16 |
| S 11 | 23 5 | 19 26 | 3 41 | 20 35 | 0 35 | 22 19 | 2 8 | 23 41 | 0 36 | 14 51 | 1 1 | 19 19 | 1 57 | 0 58 | 0 43 | 16 47 | 0 14 | 21 11 | 1 53 | 19 7 | 18 47 | 15 50 | 4 11 | 2 15 |
| S 12 | 23 9 | 17 24 | 4 22 | 20 58 | 0 28 | 22 3 | 2 7 | 23 45 | 0 37 | 14 47 | 1 1 | 19 19 | 1 57 | 0 58 | 0 43 | 16 47 | 0 14 | 21 11 | 1 53 | 19 6 | 18 47 | 15 49 | 4 11 | 2 15 |
| M13 | 23 13 | 14 38 | 4 52 | 21 20 | 0 20 | 21 46 | 2 7 | 23 49 | 0 37 | 14 44 | 1 1 | 19 18 | 1 56 | 0 59 | 0 43 | 16 47 | 0 14 | 21 12 | 1 53 | 19 4 | 18 46 | 15 47 | 4 10 | 2 15 |
| T 14 | 23 17 | 11 17 | 5 9 | 21 41 | 0 13 | 21 29 | 2 6 | 23 52 | 0 38 | 14 40 | 1 1 | 19 17 | 1 56 | 0 59 | 0 43 | 16 46 | 0 14 | 21 12 | 1 53 | 19 3 | 18 45 | 15 45 | 4 10 | 2 15 |
| W15 | 23 20 | 7 29 | 5 13 | 22 2 | 0 6 | 21 11 | 2 6 | 23 55 | 0 38 | 14 37 | 1 1 | 19 17 | 1 56 | 0 59 | 0 43 | 16 46 | 0 14 | 21 12 | 1 53 | 19 2 | 18 44 | 15 44 | 4 10 | 2 15 |
| T 16 | 23 23 | 3 22 | 5 3 | 22 21 | 0s 1 | 20 53 | 2 5 | 23 58 | 0 39 | 14 33 | 1 1 | 19 16 | 1 56 | 0 59 | 0 43 | 16 45 | 0 14 | 21 12 | 1 53 | 19 2 | 18 43 | 15 42 | 4 10 | 2 14 |
| F 17 | 23 25 | 0s57 | 4 40 | 22 39 | 0 8 | 20 34 | 2 4 | 24 1 | 0 39 | 14 30 | 1 1 | 19 15 | 1 56 | 0 59 | 0 42 | 16 45 | 0 14 | 21 12 | 1 53 | 19 1 | 18 43 | 15 40 | 4 9 | 2 14 |
| S 18 | 23 26 | 5 19 | 4 3 | 22 57 | 0 15 | 20 15 | 2 3 | 24 3 | 0 40 | 14 26 | 1 1 | 19 15 | 1 56 | 0 59 | 0 42 | 16 44 | 0 14 | 21 12 | 1 53 | 19 2 | 18 42 | 15 38 | 4 9 | 2 14 |
| S 19 | 23 28 | 9 34 | 3 14 | 23 13 | 0 22 | 19 55 | 2 2 | 24 5 | 0 40 | 14 22 | 1 0 | 19 14 | 1 55 | 0 59 | 0 42 | 16 44 | 0 14 | 21 12 | 1 53 | 19 2 | 18 41 | 15 37 | 4 9 | 2 14 |
| M20 | 23 28 | 13 31 | 2 13 | 23 28 | 0 29 | 19 34 | 2 1 | 24 7 | 0 41 | 14 18 | 1 0 | 19 13 | 1 55 | 0 59 | 0 42 | 16 43 | 0 14 | 21 13 | 1 53 | 19 2 | 18 40 | 15 35 | 4 9 | 2 14 |
| T 21 | 23 29 | 16 54 | 1 3 | 23 42 | 0 35 | 19 13 | 1 59 | 24 8 | 0 41 | 14 15 | 1 0 | 19 13 | 1 55 | 1 0 | 0 42 | 16 43 | 0 14 | 21 13 | 1 53 | 19 3 | 18 39 | 15 33 | 4 9 | 2 13 |
| W22 | 23 29 | 19 25 | 0n14 | 23 55 | 0 42 | 18 52 | 1 58 | 24 10 | 0 42 | 14 11 | 1 0 | 19 12 | 1 55 | 1 0 | 0 42 | 16 42 | 0 14 | 21 13 | 1 53 | 19 3 | 18 39 | 15 31 | 4 9 | 2 13 |
| T 23 | 23 28 | 20 45 | 1 31 | 24 6 | 0 48 | 18 30 | 1 56 | 24 11 | 0 42 | 14 7 | 1 0 | 19 12 | 1 55 | 1 0 | 0 42 | 16 42 | 0 14 | 21 13 | 1 52 | 19 2 | 18 38 | 15 30 | 4 9 | 2 13 |
| F 24 | 23 27 | 20 42 | 2 44 | 24 17 | 0 54 | 18 7 | 1 55 | 24 12 | 0 43 | 14 3 | 1 0 | 19 11 | 1 55 | 1 0 | 0 42 | 16 41 | 0 14 | 21 13 | 1 52 | 19 2 | 18 37 | 15 28 | 4 9 | 2 13 |
| S 25 | 23 25 | 19 10 | 3 47 | 24 26 | 1 0 | 17 44 | 1 53 | 24 12 | 0 43 | 13 59 | 1 0 | 19 11 | 1 54 | 1 1 | 0 42 | 16 41 | 0 14 | 21 13 | 1 52 | 19 0 | 18 36 | 15 26 | 4 9 | 2 13 |
| S 26 | 23 23 | 16 17 | 4 35 | 24 33 | 1 6 | 17 21 | 1 51 | 24 12 | 0 44 | 13 55 | 1 0 | 19 10 | 1 54 | 1 1 | 0 42 | 16 40 | 0 14 | 21 13 | 1 52 | 18 59 | 18 35 | 15 25 | 4 9 | 2 12 |
| M27 | 23 21 | 12 20 | 5 2 | 24 40 | 1 11 | 16 57 | 1 49 | 24 12 | 0 44 | 13 51 | 1 0 | 19 10 | 1 54 | 1 1 | 0 42 | 16 40 | 0 14 | 21 14 | 1 52 | 18 57 | 18 35 | 15 23 | 4 9 | 2 12 |
| T 28 | 23 18 | 7 40 | 5 9 | 24 45 | 1 16 | 16 33 | 1 47 | 24 12 | 0 45 | 13 47 | 1 0 | 19 9 | 1 54 | 1 1 | 0 42 | 16 39 | 0 14 | 21 14 | 1 52 | 18 56 | 18 34 | 15 21 | 4 9 | 2 12 |
| W29 | 23 14 | 2 41 | 4 56 | 24 49 | 1 22 | 16 8 | 1 45 | 24 11 | 0 45 | 13 43 | 1 0 | 19 9 | 1 53 | 1 2 | 0 42 | 16 38 | 0 14 | 21 14 | 1 52 | 18 55 | 18 33 | 15 19 | 4 9 | 2 12 |
| T 30 | 23 10 | 2n19 | 4 25 | 24 51 | 1 26 | 15 43 | 1 42 | 24 11 | 0 46 | 13 39 | 1 0 | 19 8 | 1 53 | 1 2 | 0 42 | 16 38 | 0 14 | 21 14 | 1 52 | 18 54 | 18 32 | 15 18 | 4 9 | 2 12 |
| F 31 | 23s 6 | 7n 3 | 3n40 | 24s52 | 1s31 | 15s18 | 1s40 | 24s10 | 0s46 | 13s35 | 1s 0 | 19n 8 | 1s53 | 1n 3 | 0s42 | 16s37 | 0s14 | 21n14 | 1s52 | 18s54 | 18s31 | 15n16 | 4n10 | 2n11 |

Julian Day Number = 2333906.5, Delta T = 24.87 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'40, Lahiri = 19°21'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## JANUARY 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 43 47 | 11♑ 4'02 | 22♈33 | 7♑25 | 24♒38 | 5♑40 | 26♒53 | 3°R56 | 4♈15 | 14♒55 | 10°R 2 | 24♏24 | 22♏50 | 1♌17 | 5♈25 | S 1 |
| S 2 | 6 47 44 | 12° 5'12 | 5♉26 | 9° 1 | 25°47 | 6°26 | 27° 5 | 3♊52 | 4°16 | 14°57 | 10♋ 0 | 24°25 | 22°47 | 1°24 | 5°26 | S 2 |
| M 3 | 6 51 40 | 13° 6'22 | 18° 3 | 10°37 | 26°57 | 7°12 | 27°17 | 3°49 | 4°17 | 14°59 | 9°59 | 24°R26 | 22°43 | 1°30 | 5°27 | M 3 |
| T 4 | 6 55 37 | 14° 7'31 | 0♊25 | 12°14 | 28° 7 | 7°58 | 27°30 | 3°46 | 4°18 | 15° 1 | 9°58 | 24°26 | 22°40 | 1°37 | 5°28 | T 4 |
| W 5 | 6 59 33 | 15° 8'40 | 12°37 | 13°52 | 29°16 | 8°44 | 27°42 | 3°43 | 4°19 | 15° 3 | 9°57 | 24°24 | 22°37 | 1°44 | 5°29 | W 5 |
| T 6 | 7 3 30 | 16° 9'48 | 24°41 | 15°30 | 0♓25 | 9°30 | 27°55 | 3°40 | 4°20 | 15° 5 | 9°55 | 24°20 | 22°34 | 1°51 | 5°30 | T 6 |
| F 7 | 7 7 26 | 17°10'56 | 6♋40 | 17° 8 | 1°34 | 10°16 | 28° 7 | 3°37 | 4°22 | 15° 7 | 9°54 | 24°13 | 22°31 | 1°57 | 5°31 | F 7 |
| S 8 | 7 11 23 | 18°12'03 | 18°35 | 18°47 | 2°43 | 11° 2 | 28°20 | 3°34 | 4°23 | 15° 9 | 9°53 | 24° 4 | 22°28 | 2° 4 | 5°33 | S 8 |
| S 9 | 7 15 19 | 19°13'10 | 0♌28 | 20°27 | 3°52 | 11°48 | 28°33 | 3°31 | 4°24 | 15°11 | 9°52 | 23°53 | 22°24 | 2°11 | 5°34 | S 9 |
| M10 | 7 19 16 | 20°14'16 | 12°20 | 22° 6 | 5° 1 | 12°34 | 28°46 | 3°29 | 4°26 | 15°13 | 9°50 | 23°41 | 22°21 | 2°17 | 5°35 | M10 |
| T 11 | 7 23 13 | 21°15'22 | 24°12 | 23°47 | 6° 9 | 13°20 | 28°58 | 3°26 | 4°27 | 15°16 | 9°49 | 23°30 | 22°18 | 2°24 | 5°37 | T 11 |
| W12 | 7 27 9 | 22°16'28 | 6♍ 8 | 25°27 | 7°17 | 14° 6 | 29°11 | 3°24 | 4°29 | 15°18 | 9°48 | 23°20 | 22°15 | 2°31 | 5°38 | W12 |
| T 13 | 7 31 6 | 23°17'33 | 18° 9 | 27° 9 | 8°25 | 14°52 | 29°24 | 3°22 | 4°30 | 15°20 | 9°47 | 23°12 | 22°12 | 2°38 | 5°40 | T 13 |
| F 14 | 7 35 2 | 24°18'38 | 0♎18 | 28°51 | 9°33 | 15°38 | 29°38 | 3°19 | 4°32 | 15°22 | 9°46 | 23° 6 | 22° 9 | 2°44 | 5°41 | F 14 |
| S 15 | 7 38 59 | 25°19'43 | 12°39 | 0♒33 | 10°41 | 16°25 | 29°51 | 3°17 | 4°34 | 15°24 | 9°44 | 23° 3 | 22° 5 | 2°51 | 5°43 | S 15 |
| S 16 | 7 42 55 | 26°20'47 | 25°17 | 2°15 | 11°48 | 17°11 | 0♓ 4 | 3°15 | 4°35 | 15°26 | 9°43 | 23°D 2 | 22° 2 | 2°58 | 5°45 | S 16 |
| M17 | 7 46 52 | 27°21'51 | 8♏17 | 3°58 | 12°55 | 17°57 | 0°17 | 3°13 | 4°37 | 15°28 | 9°42 | 23° 2 | 21°59 | 3° 4 | 5°47 | M17 |
| T 18 | 7 50 48 | 28°22'54 | 21°41 | 5°42 | 14° 2 | 18°43 | 0°31 | 3°12 | 4°39 | 15°31 | 9°41 | 23°R 3 | 21°56 | 3°11 | 5°48 | T 18 |
| W19 | 7 54 45 | 29°23'57 | 5♐33 | 7°26 | 15° 9 | 19°30 | 0°44 | 3°10 | 4°41 | 15°33 | 9°40 | 23° 2 | 21°53 | 3°18 | 5°50 | W19 |
| T 20 | 7 58 42 | 0♒25'00 | 19°55 | 9°10 | 16°16 | 20°16 | 0°57 | 3° 8 | 4°42 | 15°35 | 9°38 | 23° 0 | 21°49 | 3°25 | 5°52 | T 20 |
| F 21 | 8 2 38 | 1°26'02 | 4♑43 | 10°54 | 17°22 | 21° 3 | 1°11 | 3° 7 | 4°44 | 15°37 | 9°37 | 22°54 | 21°46 | 3°31 | 5°54 | F 21 |
| S 22 | 8 6 35 | 2°27'03 | 19°52 | 12°38 | 18°28 | 21°49 | 1°24 | 3° 6 | 4°46 | 15°40 | 9°36 | 22°46 | 21°43 | 3°38 | 5°56 | S 22 |
| S 23 | 8 10 31 | 3°28'03 | 5♒12 | 14°22 | 19°34 | 22°36 | 1°38 | 3° 4 | 4°48 | 15°42 | 9°35 | 22°36 | 21°40 | 3°45 | 5°58 | S 23 |
| M24 | 8 14 28 | 4°29'03 | 20°32 | 16° 6 | 20°39 | 23°22 | 1°52 | 3° 3 | 4°50 | 15°44 | 9°34 | 22°25 | 21°37 | 3°51 | 6° 0 | M24 |
| T 25 | 8 18 24 | 5°30'01 | 5♓41 | 17°49 | 21°45 | 24° 9 | 2° 5 | 3° 2 | 4°52 | 15°46 | 9°33 | 22°14 | 21°34 | 3°58 | 6° 2 | T 25 |
| W26 | 8 22 21 | 6°30'58 | 20°28 | 19°32 | 22°50 | 24°55 | 2°19 | 3° 1 | 4°55 | 15°49 | 9°32 | 22° 6 | 21°30 | 4° 5 | 6° 5 | W26 |
| T 27 | 8 26 17 | 7°31'53 | 4♈47 | 21°14 | 23°54 | 25°42 | 2°33 | 3° 1 | 4°57 | 15°51 | 9°31 | 21°59 | 21°27 | 4°12 | 6° 7 | T 27 |
| F 28 | 8 30 14 | 8°32'48 | 18°37 | 22°54 | 24°59 | 26°29 | 2°47 | 3° 0 | 4°59 | 15°53 | 9°29 | 21°56 | 21°24 | 4°18 | 6° 9 | F 28 |
| S 29 | 8 34 11 | 9°33'41 | 1♉57 | 24°33 | 26° 3 | 27°15 | 3° 1 | 2°59 | 5° 1 | 15°55 | 9°28 | 21°54 | 21°21 | 4°25 | 6°11 | S 29 |
| S 30 | 8 38 7 | 10°34'32 | 14°52 | 26°10 | 27° 7 | 28° 2 | 3°15 | 2°59 | 5° 3 | 15°58 | 9°27 | 21°54 | 21°18 | 4°32 | 6°14 | S 30 |
| M31 | 8 42 4 | 11♒35'22 | 27♉24 | 27♒45 | 28♓10 | 28♑49 | 3♓29 | 2♊59 | 5♈ 6 | 16♒ 0 | 9♋26 | 21♏54 | 21♏14 | 4♌38 | 6♈16 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 1 | 11n19 | 2n44 | 24s52 | 1s36 | 14s52 | 1s37 | 24s 8 | 0s47 | 13s30 | 1s 0 | 19n 7 | 1s53 | 1n 3 | 0s42 | 16s37 | 0s14 | 21n14 | 1s52 | 18s54 | 18s31 | 15n14 | 4n10 | 2n11 |
| S 2 | 22 56 | 14 56 | 1 41 | 24 50 | 1 40 | 14 26 | 1 35 | 24 7 | 0 47 | 13 26 | 0 59 | 19 7 | 1 53 | 1 3 | 0 42 | 16 36 | 0 14 | 21 15 | 1 52 | 18 54 | 18 30 | 15 12 | 4 10 | 2 11 |
| M 3 | 22 50 | 17 47 | 0 34 | 24 46 | 1 44 | 13 59 | 1 32 | 24 5 | 0 48 | 13 22 | 0 59 | 19 7 | 1 52 | 1 4 | 0 42 | 16 36 | 0 14 | 21 15 | 1 52 | 18 55 | 18 29 | 15 11 | 4 10 | 2 11 |
| T 4 | 22 44 | 19 45 | 0s32 | 24 42 | 1 47 | 13 32 | 1 29 | 24 2 | 0 48 | 13 17 | 0 59 | 19 6 | 1 52 | 1 4 | 0 42 | 16 35 | 0 14 | 21 15 | 1 52 | 18 55 | 18 28 | 15 9 | 4 10 | 2 11 |
| W 5 | 22 37 | 20 45 | 1 36 | 24 35 | 1 51 | 13 5 | 1 26 | 24 0 | 0 49 | 13 13 | 0 59 | 19 6 | 1 52 | 1 5 | 0 42 | 16 34 | 0 14 | 21 15 | 1 52 | 18 54 | 18 27 | 15 7 | 4 11 | 2 10 |
| T 6 | 22 30 | 20 47 | 2 35 | 24 27 | 1 54 | 12 38 | 1 23 | 23 57 | 0 49 | 13 9 | 0 59 | 19 5 | 1 52 | 1 5 | 0 42 | 16 34 | 0 14 | 21 15 | 1 52 | 18 53 | 18 27 | 15 5 | 4 11 | 2 10 |
| F 7 | 22 22 | 19 52 | 3 27 | 24 18 | 1 56 | 12 10 | 1 20 | 23 54 | 0 50 | 13 4 | 0 59 | 19 5 | 1 52 | 1 6 | 0 42 | 16 33 | 0 14 | 21 15 | 1 52 | 18 51 | 18 26 | 15 3 | 4 11 | 2 10 |
| S 8 | 22 14 | 18 5 | 4 9 | 24 7 | 1 59 | 11 43 | 1 16 | 23 51 | 0 50 | 13 0 | 0 59 | 19 5 | 1 51 | 1 7 | 0 42 | 16 33 | 0 14 | 21 15 | 1 52 | 18 49 | 18 25 | 15 2 | 4 12 | 2 10 |
| S 9 | 22 6 | 15 32 | 4 40 | 23 55 | 2 1 | 11 14 | 1 13 | 23 48 | 0 50 | 12 55 | 0 59 | 19 5 | 1 51 | 1 7 | 0 42 | 16 32 | 0 14 | 21 16 | 1 51 | 18 46 | 18 24 | 15 0 | 4 12 | 2 10 |
| M10 | 21 57 | 12 21 | 4 58 | 23 41 | 2 3 | 10 46 | 1 9 | 23 44 | 0 51 | 12 51 | 0 59 | 19 4 | 1 51 | 1 8 | 0 42 | 16 31 | 0 14 | 21 16 | 1 51 | 18 44 | 18 23 | 14 58 | 4 12 | 2 10 |
| T 11 | 21 48 | 8 41 | 5 4 | 23 25 | 2 4 | 10 17 | 1 6 | 23 40 | 0 51 | 12 46 | 0 59 | 19 4 | 1 51 | 1 8 | 0 41 | 16 31 | 0 14 | 21 16 | 1 51 | 18 41 | 18 23 | 14 56 | 4 13 | 2 9 |
| W12 | 21 38 | 4 41 | 4 57 | 23 8 | 2 5 | 9 48 | 1 2 | 23 35 | 0 52 | 12 42 | 0 59 | 19 4 | 1 50 | 1 9 | 0 41 | 16 30 | 0 14 | 21 16 | 1 51 | 18 38 | 18 22 | 14 55 | 4 13 | 2 9 |
| T 13 | 21 28 | 0 27 | 4 36 | 22 49 | 2 5 | 9 19 | 0 58 | 23 31 | 0 52 | 12 37 | 0 59 | 19 4 | 1 50 | 1 10 | 0 41 | 16 30 | 0 14 | 21 16 | 1 51 | 18 36 | 18 21 | 14 53 | 4 14 | 2 9 |
| F 14 | 21 17 | 3s50 | 4 3 | 22 28 | 2 5 | 8 50 | 0 54 | 23 26 | 0 53 | 12 32 | 0 59 | 19 4 | 1 50 | 1 10 | 0 41 | 16 29 | 0 14 | 21 16 | 1 51 | 18 35 | 18 20 | 14 51 | 4 14 | 2 9 |
| S 15 | 21 6 | 8 3 | 3 18 | 22 6 | 2 5 | 8 21 | 0 50 | 23 21 | 0 53 | 12 28 | 0 59 | 19 3 | 1 50 | 1 11 | 0 41 | 16 28 | 0 14 | 21 17 | 1 51 | 18 34 | 18 19 | 14 49 | 4 15 | 2 9 |
| S 16 | 20 55 | 12 0 | 2 22 | 21 42 | 2 4 | 7 51 | 0 46 | 23 15 | 0 53 | 12 23 | 0 59 | 19 3 | 1 49 | 1 12 | 0 41 | 16 28 | 0 14 | 21 17 | 1 51 | 18 34 | 18 18 | 14 48 | 4 15 | 2 8 |
| M17 | 20 43 | 15 31 | 1 18 | 21 17 | 2 3 | 7 22 | 0 42 | 23 10 | 0 54 | 12 18 | 0 59 | 19 3 | 1 49 | 1 12 | 0 41 | 16 27 | 0 14 | 21 17 | 1 51 | 18 34 | 18 18 | 14 46 | 4 16 | 2 8 |
| T 18 | 20 31 | 18 20 | 0 7 | 20 50 | 2 1 | 6 52 | 0 37 | 23 4 | 0 54 | 12 14 | 0 59 | 19 3 | 1 49 | 1 13 | 0 41 | 16 26 | 0 14 | 21 17 | 1 51 | 18 34 | 18 17 | 14 44 | 4 16 | 2 8 |
| W19 | 20 19 | 20 11 | 1n 6 | 20 22 | 1 59 | 6 22 | 0 33 | 22 58 | 0 55 | 12 9 | 0 59 | 19 3 | 1 49 | 1 14 | 0 41 | 16 26 | 0 14 | 21 17 | 1 51 | 18 34 | 18 16 | 14 42 | 4 17 | 2 8 |
| T 20 | 20 6 | 20 48 | 2 18 | 19 52 | 1 56 | 5 52 | 0 28 | 22 51 | 0 55 | 12 4 | 0 59 | 19 3 | 1 48 | 1 15 | 0 41 | 16 25 | 0 14 | 21 17 | 1 51 | 18 33 | 18 15 | 14 40 | 4 17 | 2 8 |
| F 21 | 19 52 | 20 2 | 3 22 | 19 20 | 1 53 | 5 21 | 0 23 | 22 45 | 0 56 | 11 59 | 0 59 | 19 3 | 1 48 | 1 15 | 0 41 | 16 24 | 0 14 | 21 18 | 1 51 | 18 32 | 18 14 | 14 39 | 4 18 | 2 8 |
| S 22 | 19 39 | 17 49 | 4 14 | 18 47 | 1 48 | 4 51 | 0 18 | 22 38 | 0 56 | 11 54 | 0 59 | 19 3 | 1 48 | 1 16 | 0 41 | 16 24 | 0 14 | 21 18 | 1 50 | 18 30 | 18 14 | 14 37 | 4 19 | 2 7 |
| S 23 | 19 25 | 14 20 | 4 48 | 18 12 | 1 44 | 4 21 | 0 14 | 22 30 | 0 56 | 11 49 | 0 59 | 19 3 | 1 48 | 1 17 | 0 41 | 16 23 | 0 14 | 21 18 | 1 50 | 18 27 | 18 13 | 14 35 | 4 19 | 2 7 |
| M24 | 19 10 | 9 54 | 5 1 | 17 36 | 1 38 | 3 50 | 0 9 | 22 23 | 0 57 | 11 44 | 0 59 | 19 3 | 1 47 | 1 18 | 0 41 | 16 22 | 0 14 | 21 18 | 1 50 | 18 24 | 18 12 | 14 33 | 4 20 | 2 7 |
| T 25 | 18 56 | 4 54 | 4 53 | 16 59 | 1 32 | 3 20 | 0 3 | 22 15 | 0 57 | 11 39 | 0 59 | 19 3 | 1 47 | 1 19 | 0 41 | 16 22 | 0 14 | 21 18 | 1 50 | 18 22 | 18 11 | 14 31 | 4 21 | 2 7 |
| W26 | 18 41 | 0n17 | 4 26 | 16 20 | 1 26 | 2 49 | 0n 2 | 22 7 | 0 57 | 11 35 | 0 59 | 19 3 | 1 47 | 1 20 | 0 41 | 16 21 | 0 14 | 21 18 | 1 50 | 18 19 | 18 10 | 14 30 | 4 21 | 2 7 |
| T 27 | 18 25 | 5 18 | 3 42 | 15 41 | 1 18 | 2 19 | 0 7 | 21 59 | 0 58 | 11 30 | 0 58 | 19 3 | 1 46 | 1 21 | 0 41 | 16 20 | 0 14 | 21 18 | 1 50 | 18 18 | 18 9 | 14 28 | 4 22 | 2 6 |
| F 28 | 18 9 | 9 52 | 2 47 | 15 0 | 1 10 | 1 48 | 0 13 | 21 51 | 0 58 | 11 25 | 0 58 | 19 3 | 1 46 | 1 21 | 0 41 | 16 20 | 0 14 | 21 19 | 1 50 | 18 17 | 18 9 | 14 26 | 4 23 | 2 6 |
| S 29 | 17 53 | 13 48 | 1 44 | 14 19 | 1 1 | 1 18 | 0 18 | 21 42 | 0 59 | 11 19 | 0 58 | 19 4 | 1 46 | 1 22 | 0 41 | 16 19 | 0 14 | 21 19 | 1 50 | 18 16 | 18 8 | 14 24 | 4 23 | 2 6 |
| S 30 | 17 37 | 16 55 | 0 37 | 13 37 | 0 51 | 0 47 | 0 24 | 21 33 | 0 59 | 11 14 | 0 58 | 19 4 | 1 46 | 1 23 | 0 41 | 16 18 | 0 14 | 21 19 | 1 50 | 18 16 | 18 7 | 14 22 | 4 24 | 2 6 |
| M31 | 17s20 | 19n 8 | 0s29 | 12s54 | 0s40 | 0s17 | 0n29 | 21s24 | 0s59 | 11s 9 | 0s58 | 19n 4 | 1s45 | 1n24 | 0s41 | 16s18 | 0s14 | 21n19 | 1s50 | 18s16 | 18s 6 | 14n21 | 4n25 | 2n 6 |

Julian Day Number = 2333937.5, Delta T = 24.82 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'44, Lahiri = 19°21'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## FEBRUARY 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 46 0 | 12♒36'11 | 9♊41 | 29♒16 | 29♓13 | 29♉35 | 3♓43 | 2°R58 | 5♈ 8 | 16♒ 2 | 9°R25 | 21°R53 | 21♏11 | 4♌45 | 6♈19 | T 1 |
| W 2 | 8 49 57 | 13°36'58 | 21°45 | 0♓45 | 0♈16 | 0♒22 | 3°57 | 2°D58 | 5°11 | 16° 4 | 9♋24 | 21♏50 | 21° 8 | 4°52 | 6°21 | W 2 |
| T 3 | 8 53 53 | 14°37'44 | 3♋42 | 2° 8 | 1°18 | 1° 9 | 4°11 | 2♊58 | 5°13 | 16° 7 | 9°23 | 21°43 | 21° 5 | 4°59 | 6°24 | T 3 |
| F 4 | 8 57 50 | 15°38'28 | 15°34 | 3°28 | 2°20 | 1°56 | 4°25 | 2°58 | 5°15 | 16° 9 | 9°22 | 21°34 | 21° 2 | 5° 5 | 6°26 | F 4 |
| S 5 | 9 1 46 | 16°39'11 | 27°26 | 4°41 | 3°22 | 2°43 | 4°39 | 2°59 | 5°18 | 16°11 | 9°21 | 21°22 | 20°59 | 5°12 | 6°29 | S 5 |
| S 6 | 9 5 43 | 17°39'52 | 9♌18 | 5°49 | 4°23 | 3°29 | 4°53 | 2°59 | 5°20 | 16°14 | 9°20 | 21° 8 | 20°55 | 5°19 | 6°31 | S 6 |
| M 7 | 9 9 40 | 18°40'32 | 21°12 | 6°49 | 5°24 | 4°16 | 5° 7 | 3° 0 | 5°23 | 16°16 | 9°19 | 20°53 | 20°52 | 5°25 | 6°34 | M 7 |
| T 8 | 9 13 36 | 19°41'10 | 3♍ 9 | 7°41 | 6°24 | 5° 3 | 5°22 | 3° 0 | 5°26 | 16°18 | 9°18 | 20°39 | 20°49 | 5°32 | 6°37 | T 8 |
| W 9 | 9 17 33 | 20°41'47 | 15°11 | 8°26 | 7°24 | 5°50 | 5°36 | 3° 1 | 5°28 | 16°20 | 9°17 | 20°25 | 20°46 | 5°39 | 6°39 | W 9 |
| T 10 | 9 21 29 | 21°42'23 | 27°19 | 9° 1 | 8°24 | 6°37 | 5°50 | 3° 2 | 5°31 | 16°23 | 9°17 | 20°14 | 20°43 | 5°46 | 6°42 | T 10 |
| F 11 | 9 25 26 | 22°42'57 | 9♎35 | 9°26 | 9°23 | 7°24 | 6° 4 | 3° 3 | 5°34 | 16°25 | 9°16 | 20° 6 | 20°40 | 5°52 | 6°45 | F 11 |
| S 12 | 9 29 22 | 23°43'30 | 22° 2 | 9°42 | 10°21 | 8°11 | 6°19 | 3° 4 | 5°36 | 16°27 | 9°15 | 20° 1 | 20°36 | 5°59 | 6°48 | S 12 |
| S 13 | 9 33 19 | 24°44'02 | 4♏41 | 9°R47 | 11°19 | 8°58 | 6°33 | 3° 5 | 5°39 | 16°29 | 9°14 | 19°59 | 20°33 | 6° 6 | 6°51 | S 13 |
| M14 | 9 37 15 | 25°44'32 | 17°38 | 9°42 | 12°17 | 9°45 | 6°48 | 3° 6 | 5°42 | 16°32 | 9°13 | 19°58 | 20°30 | 6°12 | 6°54 | M14 |
| T 15 | 9 41 12 | 26°45'02 | 0♐55 | 9°27 | 13°13 | 10°32 | 7° 2 | 3° 7 | 5°45 | 16°34 | 9°12 | 19°58 | 20°27 | 6°19 | 6°57 | T 15 |
| W16 | 9 45 9 | 27°45'30 | 14°37 | 9° 2 | 14°10 | 11°19 | 7°16 | 3° 9 | 5°48 | 16°36 | 9°12 | 19°57 | 20°24 | 6°26 | 7° 0 | W16 |
| T 17 | 9 49 5 | 28°45'56 | 28°44 | 8°28 | 15° 6 | 12° 6 | 7°31 | 3°10 | 5°50 | 16°38 | 9°11 | 19°55 | 20°20 | 6°33 | 7° 3 | T 17 |
| F 18 | 9 53 2 | 29°46'21 | 13♑16 | 7°46 | 16° 1 | 12°53 | 7°45 | 3°12 | 5°53 | 16°41 | 9°10 | 19°49 | 20°17 | 6°39 | 7° 6 | F 18 |
| S 19 | 9 56 58 | 0♓46'45 | 28°10 | 6°56 | 16°55 | 13°40 | 8° 0 | 3°14 | 5°56 | 16°43 | 9° 9 | 19°41 | 20°14 | 6°46 | 7° 9 | S 19 |
| S 20 | 10 0 55 | 1°47'07 | 13♒19 | 6° 1 | 17°49 | 14°27 | 8°14 | 3°16 | 5°59 | 16°45 | 9° 9 | 19°31 | 20°11 | 6°53 | 7°12 | S 20 |
| M21 | 10 4 51 | 2°47'28 | 28°34 | 5° 1 | 18°43 | 15°14 | 8°29 | 3°18 | 6° 2 | 16°47 | 9° 8 | 19°20 | 20° 8 | 7° 0 | 7°15 | M21 |
| T 22 | 10 8 48 | 3°47'47 | 13♓42 | 3°58 | 19°35 | 16° 1 | 8°43 | 3°20 | 6° 5 | 16°50 | 9° 7 | 19° 9 | 20° 5 | 7° 6 | 7°18 | T 22 |
| W23 | 10 12 44 | 4°48'04 | 28°33 | 2°54 | 20°27 | 16°48 | 8°58 | 3°22 | 6° 8 | 16°52 | 9° 7 | 18°59 | 20° 1 | 7°13 | 7°22 | W23 |
| T 24 | 10 16 41 | 5°48'19 | 13♈ 1 | 1°51 | 21°18 | 17°35 | 9°12 | 3°25 | 6°11 | 16°54 | 9° 6 | 18°52 | 19°58 | 7°20 | 7°25 | T 24 |
| F 25 | 10 20 38 | 6°48'32 | 26°59 | 0°49 | 22° 8 | 18°22 | 9°27 | 3°27 | 6°14 | 16°56 | 9° 5 | 18°48 | 19°55 | 7°26 | 7°28 | F 25 |
| S 26 | 10 24 34 | 7°48'43 | 10♉28 | 29♒50 | 22°58 | 19° 9 | 9°41 | 3°30 | 6°18 | 16°58 | 9° 5 | 18°46 | 19°52 | 7°33 | 7°31 | S 26 |
| S 27 | 10 28 31 | 8°48'52 | 23°29 | 28°55 | 23°47 | 19°56 | 9°56 | 3°32 | 6°21 | 17° 0 | 9° 4 | 18°D46 | 19°49 | 7°40 | 7°35 | S 27 |
| M28 | 10 32 27 | 9♓48'59 | 6♊ 7 | 28♒ 5 | 24♈35 | 20♒43 | 10♓10 | 3♊35 | 6♈24 | 17♒ 3 | 9♋ 4 | 18°R46 | 19♏46 | 7♌47 | 7♈38 | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s 3 | 20n25 | 1s33 | 12s12 | 0s29 | 0n14 | 0n35 | 21s14 | 1s 0 | 11s 4 | 0s58 | 19n 4 | 1s45 | 1n25 | 0s41 | 16s17 | 0s14 | 21n19 | 1s50 | 18s16 | 18s 5 | 14n19 | 4n26 | 2n 6 |
| W 2 | 16 46 | 20 43 | 2 31 | 11 29 | 0 17 | 0 44 | 0 41 | 21 5 | 1 0 | 10 59 | 0 58 | 19 4 | 1 45 | 1 26 | 0 41 | 16 16 | 0 14 | 21 19 | 1 50 | 18 15 | 18 4 | 14 17 | 4 27 | 2 5 |
| T 3 | 16 28 | 20 4 | 3 22 | 10 47 | 0 4 | 1 14 | 0 47 | 20 55 | 1 0 | 10 54 | 0 58 | 19 5 | 1 45 | 1 27 | 0 41 | 16 16 | 0 14 | 21 20 | 1 49 | 18 14 | 18 4 | 14 15 | 4 28 | 2 5 |
| F 4 | 16 10 | 18 33 | 4 3 | 10 6 | 0n10 | 1 45 | 0 53 | 20 45 | 1 1 | 10 49 | 0 58 | 19 5 | 1 44 | 1 28 | 0 41 | 16 15 | 0 14 | 21 20 | 1 49 | 18 11 | 18 3 | 14 13 | 4 28 | 2 5 |
| S 5 | 15 52 | 16 14 | 4 34 | 9 26 | 0 24 | 2 15 | 0 59 | 20 34 | 1 1 | 10 44 | 0 58 | 19 5 | 1 44 | 1 29 | 0 41 | 16 14 | 0 14 | 21 20 | 1 49 | 18 8 | 18 2 | 14 12 | 4 29 | 2 5 |
| S 6 | 15 34 | 13 15 | 4 53 | 8 47 | 0 39 | 2 45 | 1 5 | 20 24 | 1 1 | 10 38 | 0 58 | 19 6 | 1 44 | 1 30 | 0 41 | 16 14 | 0 14 | 21 20 | 1 49 | 18 4 | 18 1 | 14 10 | 4 30 | 2 5 |
| M 7 | 15 15 | 9 44 | 4 59 | 8 11 | 0 54 | 3 15 | 1 12 | 20 13 | 1 1 | 10 33 | 0 58 | 19 6 | 1 44 | 1 31 | 0 41 | 16 13 | 0 14 | 21 20 | 1 49 | 18 0 | 18 0 | 14 8 | 4 31 | 2 5 |
| T 8 | 14 56 | 5 49 | 4 52 | 7 37 | 1 10 | 3 44 | 1 18 | 20 2 | 1 2 | 10 28 | 0 58 | 19 6 | 1 43 | 1 32 | 0 41 | 16 12 | 0 14 | 21 20 | 1 49 | 17 57 | 17 59 | 14 6 | 4 32 | 2 5 |
| W 9 | 14 37 | 1 40 | 4 32 | 7 5 | 1 26 | 4 14 | 1 24 | 19 51 | 1 2 | 10 23 | 0 58 | 19 7 | 1 43 | 1 33 | 0 41 | 16 12 | 0 14 | 21 21 | 1 49 | 17 53 | 17 58 | 14 4 | 4 33 | 2 4 |
| T 10 | 14 18 | 2s36 | 4 0 | 6 37 | 1 42 | 4 44 | 1 31 | 19 39 | 1 2 | 10 18 | 0 58 | 19 7 | 1 43 | 1 34 | 0 41 | 16 11 | 0 14 | 21 21 | 1 49 | 17 50 | 17 58 | 14 2 | 4 34 | 2 4 |
| F 11 | 13 58 | 6 48 | 3 16 | 6 13 | 1 58 | 5 13 | 1 38 | 19 28 | 1 3 | 10 12 | 0 58 | 19 8 | 1 42 | 1 36 | 0 40 | 16 10 | 0 15 | 21 21 | 1 49 | 17 48 | 17 57 | 14 1 | 4 35 | 2 4 |
| S 12 | 13 38 | 10 47 | 2 22 | 5 53 | 2 14 | 5 42 | 1 44 | 19 16 | 1 3 | 10 7 | 0 58 | 19 8 | 1 42 | 1 37 | 0 40 | 16 10 | 0 15 | 21 21 | 1 49 | 17 47 | 17 56 | 13 59 | 4 36 | 2 4 |
| S 13 | 13 18 | 14 21 | 1 20 | 5 36 | 2 29 | 6 11 | 1 51 | 19 4 | 1 3 | 10 2 | 0 58 | 19 8 | 1 42 | 1 38 | 0 40 | 16 9 | 0 15 | 21 21 | 1 49 | 17 46 | 17 55 | 13 57 | 4 37 | 2 4 |
| M14 | 12 58 | 17 19 | 0 12 | 5 25 | 2 44 | 6 40 | 1 58 | 18 52 | 1 3 | 9 56 | 0 58 | 19 9 | 1 42 | 1 39 | 0 40 | 16 8 | 0 15 | 21 21 | 1 49 | 17 46 | 17 54 | 13 55 | 4 38 | 2 4 |
| T 15 | 12 37 | 19 26 | 0n58 | 5 18 | 2 57 | 7 9 | 2 5 | 18 39 | 1 4 | 9 51 | 0 59 | 19 9 | 1 41 | 1 40 | 0 40 | 16 8 | 0 15 | 21 21 | 1 48 | 17 46 | 17 53 | 13 53 | 4 39 | 2 3 |
| W16 | 12 16 | 20 30 | 2 6 | 5 16 | 3 9 | 7 37 | 2 12 | 18 26 | 1 4 | 9 46 | 0 59 | 19 10 | 1 41 | 1 41 | 0 40 | 16 7 | 0 15 | 21 22 | 1 48 | 17 46 | 17 53 | 13 51 | 4 40 | 2 3 |
| T 17 | 11 55 | 20 19 | 3 9 | 5 19 | 3 20 | 8 5 | 2 19 | 18 13 | 1 4 | 9 40 | 0 59 | 19 11 | 1 41 | 1 42 | 0 40 | 16 6 | 0 15 | 21 22 | 1 48 | 17 45 | 17 52 | 13 50 | 4 41 | 2 3 |
| F 18 | 11 34 | 18 48 | 4 2 | 5 26 | 3 29 | 8 33 | 2 26 | 18 0 | 1 4 | 9 35 | 0 59 | 19 11 | 1 41 | 1 44 | 0 40 | 16 6 | 0 15 | 21 22 | 1 48 | 17 43 | 17 51 | 13 48 | 4 42 | 2 3 |
| S 19 | 11 13 | 15 59 | 4 40 | 5 38 | 3 36 | 9 1 | 2 33 | 17 47 | 1 5 | 9 29 | 0 59 | 19 12 | 1 40 | 1 45 | 0 40 | 16 5 | 0 15 | 21 22 | 1 48 | 17 41 | 17 50 | 13 46 | 4 43 | 2 3 |
| S 20 | 10 51 | 12 4 | 4 59 | 5 54 | 3 41 | 9 28 | 2 40 | 17 34 | 1 5 | 9 24 | 0 59 | 19 12 | 1 40 | 1 46 | 0 40 | 16 4 | 0 15 | 21 22 | 1 48 | 17 38 | 17 49 | 13 44 | 4 44 | 2 3 |
| M21 | 10 30 | 7 21 | 4 57 | 6 13 | 3 44 | 9 55 | 2 47 | 17 20 | 1 5 | 9 19 | 0 59 | 19 13 | 1 40 | 1 47 | 0 40 | 16 4 | 0 15 | 21 22 | 1 48 | 17 35 | 17 48 | 13 42 | 4 46 | 2 3 |
| T 22 | 10 8 | 2 12 | 4 34 | 6 35 | 3 44 | 10 22 | 2 54 | 17 6 | 1 5 | 9 13 | 0 59 | 19 14 | 1 40 | 1 48 | 0 40 | 16 3 | 0 15 | 21 22 | 1 48 | 17 32 | 17 47 | 13 40 | 4 47 | 2 3 |
| W23 | 9 46 | 2n59 | 3 53 | 7 0 | 3 43 | 10 48 | 3 2 | 16 52 | 1 6 | 9 8 | 0 59 | 19 14 | 1 39 | 1 50 | 0 40 | 16 2 | 0 15 | 21 23 | 1 48 | 17 30 | 17 47 | 13 38 | 4 48 | 2 2 |
| T 24 | 9 24 | 7 52 | 2 57 | 7 26 | 3 39 | 11 14 | 3 9 | 16 38 | 1 6 | 9 2 | 0 59 | 19 15 | 1 39 | 1 51 | 0 40 | 16 2 | 0 15 | 21 23 | 1 48 | 17 28 | 17 46 | 13 37 | 4 49 | 2 2 |
| F 25 | 9 2 | 12 10 | 1 53 | 7 53 | 3 33 | 11 40 | 3 16 | 16 24 | 1 6 | 8 57 | 0 59 | 19 16 | 1 39 | 1 52 | 0 40 | 16 1 | 0 15 | 21 23 | 1 47 | 17 27 | 17 45 | 13 35 | 4 50 | 2 2 |
| S 26 | 8 39 | 15 41 | 0 44 | 8 21 | 3 25 | 12 6 | 3 24 | 16 9 | 1 6 | 8 52 | 0 59 | 19 17 | 1 39 | 1 53 | 0 40 | 16 1 | 0 15 | 21 23 | 1 47 | 17 26 | 17 44 | 13 33 | 4 51 | 2 2 |
| S 27 | 8 17 | 18 16 | 0s25 | 8 48 | 3 16 | 12 31 | 3 31 | 15 54 | 1 6 | 8 46 | 0 59 | 19 17 | 1 38 | 1 55 | 0 40 | 16 0 | 0 15 | 21 23 | 1 47 | 17 26 | 17 43 | 13 31 | 4 53 | 2 2 |
| M28 | 7s54 | 19n52 | 1s31 | 9s15 | 3n 6 | 12n56 | 3n39 | 15s40 | 1s 7 | 8s41 | 0s59 | 19n18 | 1s38 | 1n56 | 0s40 | 15s59 | 0s15 | 21n23 | 1s47 | 17s26 | 17s42 | 13n29 | 4n54 | 2n 2 |

Julian Day Number = 2333968.5, Delta T = 24.77 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'48, Lahiri = 19°21'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## MARCH 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 36 24 | 10♓49'03 | 18♊25 | 27°R21 | 25♈21 | 21♒30 | 10♓25 | 3♊38 | 6♈27 | 17♒ 5 | 9°R 3 | 18°R46 | 19♏42 | 7♌53 | 7♈41 | T 1 |
| W 2 | 10 40 20 | 11°49'06 | 0♋29 | 26♒44 | 26° 7 | 22°18 | 10°39 | 3°41 | 6°30 | 17° 7 | 9♋ 3 | 18♏44 | 19°39 | 8° 0 | 7°45 | W 2 |
| T 3 | 10 44 17 | 12°49'06 | 12°25 | 26°13 | 26°52 | 23° 5 | 10°54 | 3°44 | 6°33 | 17° 9 | 9° 2 | 18°40 | 19°36 | 8° 7 | 7°48 | T 3 |
| F 4 | 10 48 13 | 13°49'05 | 24°16 | 25°48 | 27°36 | 23°52 | 11° 8 | 3°47 | 6°37 | 17°11 | 9° 2 | 18°33 | 19°33 | 8°13 | 7°51 | F 4 |
| S 5 | 10 52 10 | 14°49'01 | 6♌ 7 | 25°30 | 28°19 | 24°39 | 11°23 | 3°51 | 6°40 | 17°13 | 9° 1 | 18°24 | 19°30 | 8°20 | 7°55 | S 5 |
| S 6 | 10 56 7 | 15°48'55 | 18° 0 | 25°19 | 29° 1 | 25°26 | 11°37 | 3°54 | 6°43 | 17°15 | 9° 1 | 18°13 | 19°26 | 8°27 | 7°58 | S 6 |
| M 7 | 11 0 3 | 16°48'47 | 29°58 | 25°D14 | 29°42 | 26°13 | 11°52 | 3°57 | 6°46 | 17°17 | 9° 1 | 18° 1 | 19°23 | 8°34 | 8° 2 | M 7 |
| T 8 | 11 4 0 | 17°48'36 | 12♍ 2 | 25°16 | 0♉21 | 27° 0 | 12° 6 | 4° 1 | 6°50 | 17°19 | 9° 0 | 17°49 | 19°20 | 8°40 | 8° 5 | T 8 |
| W 9 | 11 7 56 | 18°48'24 | 24°15 | 25°24 | 1° 0 | 27°47 | 12°21 | 4° 5 | 6°53 | 17°21 | 9° 0 | 17°39 | 19°17 | 8°47 | 8° 9 | W 9 |
| T 10 | 11 11 53 | 19°48'10 | 6♎35 | 25°37 | 1°37 | 28°34 | 12°35 | 4° 8 | 6°56 | 17°23 | 9° 0 | 17°30 | 19°14 | 8°54 | 8°12 | T 10 |
| F 11 | 11 15 49 | 20°47'54 | 19° 5 | 25°55 | 2°12 | 29°21 | 12°49 | 4°12 | 6°59 | 17°25 | 8°59 | 17°24 | 19°11 | 9° 0 | 8°16 | F 11 |
| S 12 | 11 19 46 | 21°47'36 | 1♏45 | 26°19 | 2°47 | 0♓ 9 | 13° 4 | 4°16 | 7° 3 | 17°27 | 8°59 | 17°20 | 19° 7 | 9° 7 | 8°19 | S 12 |
| S 13 | 11 23 42 | 22°47'16 | 14°37 | 26°48 | 3°19 | 0°56 | 13°18 | 4°20 | 7° 6 | 17°29 | 8°59 | 17°D19 | 19° 4 | 9°14 | 8°23 | S 13 |
| M14 | 11 27 39 | 23°46'55 | 27°43 | 27°21 | 3°51 | 1°43 | 13°33 | 4°24 | 7°10 | 17°31 | 8°59 | 17°19 | 19° 1 | 9°21 | 8°26 | M14 |
| T 15 | 11 31 35 | 24°46'32 | 11♐ 4 | 27°58 | 4°21 | 2°30 | 13°47 | 4°29 | 7°13 | 17°33 | 8°58 | 17°20 | 18°58 | 9°27 | 8°30 | T 15 |
| W16 | 11 35 32 | 25°46'07 | 24°43 | 28°39 | 4°49 | 3°17 | 14° 1 | 4°33 | 7°16 | 17°35 | 8°58 | 17°R21 | 18°55 | 9°34 | 8°34 | W16 |
| T 17 | 11 39 29 | 26°45'40 | 8♑41 | 29°24 | 5°16 | 4° 4 | 14°16 | 4°37 | 7°20 | 17°37 | 8°58 | 17°20 | 18°51 | 9°41 | 8°37 | T 17 |
| F 18 | 11 43 25 | 27°45'12 | 22°58 | 0♓13 | 5°41 | 4°51 | 14°30 | 4°42 | 7°23 | 17°39 | 8°58 | 17°18 | 18°48 | 9°48 | 8°41 | F 18 |
| S 19 | 11 47 22 | 28°44'42 | 7♒32 | 1° 4 | 6° 4 | 5°38 | 14°44 | 4°46 | 7°26 | 17°41 | 8°58 | 17°13 | 18°45 | 9°54 | 8°45 | S 19 |
| S 20 | 11 51 18 | 29°44'10 | 22°18 | 1°59 | 6°25 | 6°25 | 14°59 | 4°51 | 7°30 | 17°42 | 8°58 | 17° 7 | 18°42 | 10° 1 | 8°48 | S 20 |
| M21 | 11 55 15 | 0♈43'36 | 7♓ 9 | 2°57 | 6°45 | 7°12 | 15°13 | 4°56 | 7°33 | 17°44 | 8°58 | 16°59 | 18°39 | 10° 8 | 8°52 | M21 |
| T 22 | 11 59 11 | 1°43'00 | 21°58 | 3°58 | 7° 2 | 7°59 | 15°27 | 5° 1 | 7°37 | 17°46 | 8°58 | 16°52 | 18°36 | 10°14 | 8°55 | T 22 |
| W23 | 12 3 8 | 2°42'22 | 6♈36 | 5° 1 | 7°18 | 8°46 | 15°41 | 5° 6 | 7°40 | 17°48 | 8°D58 | 16°46 | 18°32 | 10°21 | 8°59 | W23 |
| T 24 | 12 7 4 | 3°41'42 | 20°56 | 6° 6 | 7°31 | 9°33 | 15°55 | 5°10 | 7°44 | 17°49 | 8°58 | 16°41 | 18°29 | 10°28 | 9° 3 | T 24 |
| F 25 | 12 11 1 | 4°41'00 | 4♉53 | 7°15 | 7°42 | 10°20 | 16°10 | 5°16 | 7°47 | 17°51 | 8°58 | 16°39 | 18°26 | 10°35 | 9° 6 | F 25 |
| S 26 | 12 14 58 | 5°40'15 | 18°24 | 8°25 | 7°51 | 11° 7 | 16°24 | 5°21 | 7°50 | 17°53 | 8°58 | 16°D38 | 18°23 | 10°41 | 9°10 | S 26 |
| S 27 | 12 18 54 | 6°39'29 | 1♊29 | 9°37 | 7°58 | 11°54 | 16°38 | 5°26 | 7°54 | 17°54 | 8°58 | 16°39 | 18°20 | 10°48 | 9°14 | S 27 |
| M28 | 12 22 51 | 7°38'40 | 14°11 | 10°52 | 8° 3 | 12°41 | 16°52 | 5°31 | 7°57 | 17°56 | 8°58 | 16°41 | 18°17 | 10°55 | 9°17 | M28 |
| T 29 | 12 26 47 | 8°37'49 | 26°34 | 12° 8 | 8°R 5 | 13°28 | 17° 6 | 5°37 | 8° 1 | 17°58 | 8°58 | 16°42 | 18°13 | 11° 1 | 9°21 | T 29 |
| W30 | 12 30 44 | 9°36'56 | 8♋42 | 13°27 | 8° 5 | 14°15 | 17°20 | 5°42 | 8° 4 | 17°59 | 8°58 | 16°R43 | 18°10 | 11° 8 | 9°25 | W30 |
| T 31 | 12 34 40 | 10♈36'00 | 20♋40 | 14♓47 | 8♉ 2 | 15♓ 2 | 17♓34 | 5♊48 | 8♈ 8 | 18♒ 1 | 8♋59 | 16♏42 | 18♏ 7 | 11♌15 | 9♈28 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s31 | 20n28 | 2s31 | 9s41 | 2n54 | 13n20 | 3n46 | 15s25 | 1s 7 | 8s35 | 0s59 | 19n19 | 1s38 | 1n57 | 0s40 | 15s59 | 0s15 | 21n23 | 1s47 | 17s26 | 17s41 | 13n27 | 4n55 | 2n 2 |
| W 2 | 7 9 | 20 6 | 3 23 | 10 6 | 2 41 | 13 44 | 3 54 | 15 9 | 1 7 | 8 30 | 0 59 | 19 20 | 1 38 | 1 58 | 0 40 | 15 58 | 0 15 | 21 23 | 1 47 | 17 26 | 17 41 | 13 25 | 4 56 | 2 2 |
| T 3 | 6 46 | 18 50 | 4 5 | 10 29 | 2 28 | 14 7 | 4 1 | 14 54 | 1 7 | 8 24 | 0 59 | 19 20 | 1 37 | 2 0 | 0 40 | 15 57 | 0 15 | 21 24 | 1 47 | 17 25 | 17 40 | 13 24 | 4 57 | 2 1 |
| F 4 | 6 23 | 16 46 | 4 36 | 10 50 | 2 14 | 14 30 | 4 9 | 14 39 | 1 7 | 8 19 | 0 59 | 19 21 | 1 37 | 2 1 | 0 40 | 15 57 | 0 15 | 21 24 | 1 47 | 17 23 | 17 39 | 13 22 | 4 59 | 2 1 |
| S 5 | 5 59 | 14 0 | 4 56 | 11 9 | 2 0 | 14 53 | 4 16 | 14 23 | 1 7 | 8 13 | 0 59 | 19 22 | 1 37 | 2 2 | 0 40 | 15 56 | 0 15 | 21 24 | 1 47 | 17 20 | 17 38 | 13 20 | 5 0 | 2 1 |
| S 6 | 5 36 | 10 39 | 5 3 | 11 27 | 1 46 | 15 15 | 4 24 | 14 7 | 1 7 | 8 8 | 0 59 | 19 23 | 1 37 | 2 4 | 0 40 | 15 56 | 0 15 | 21 24 | 1 47 | 17 17 | 17 37 | 13 18 | 5 1 | 2 1 |
| M 7 | 5 13 | 6 52 | 4 56 | 11 42 | 1 31 | 15 37 | 4 31 | 13 51 | 1 8 | 8 2 | 0 59 | 19 24 | 1 36 | 2 5 | 0 40 | 15 55 | 0 15 | 21 24 | 1 46 | 17 14 | 17 36 | 13 16 | 5 3 | 2 1 |
| T 8 | 4 50 | 2 47 | 4 37 | 11 55 | 1 17 | 15 58 | 4 39 | 13 35 | 1 8 | 7 57 | 0 59 | 19 25 | 1 36 | 2 6 | 0 40 | 15 54 | 0 15 | 21 24 | 1 46 | 17 10 | 17 35 | 13 14 | 5 4 | 2 1 |
| W 9 | 4 26 | 1s27 | 4 4 | 12 5 | 1 3 | 16 18 | 4 46 | 13 19 | 1 8 | 7 51 | 0 59 | 19 26 | 1 36 | 2 7 | 0 40 | 15 54 | 0 15 | 21 24 | 1 46 | 17 7 | 17 35 | 13 12 | 5 5 | 2 1 |
| T 10 | 4 3 | 5 41 | 3 20 | 12 14 | 0 49 | 16 38 | 4 54 | 13 3 | 1 8 | 7 46 | 0 59 | 19 27 | 1 36 | 2 9 | 0 40 | 15 53 | 0 15 | 21 25 | 1 46 | 17 5 | 17 34 | 13 11 | 5 6 | 2 1 |
| F 11 | 3 39 | 9 43 | 2 25 | 12 20 | 0 36 | 16 58 | 5 1 | 12 47 | 1 8 | 7 40 | 1 0 | 19 28 | 1 35 | 2 10 | 0 40 | 15 53 | 0 15 | 21 25 | 1 46 | 17 3 | 17 33 | 13 9 | 5 8 | 2 1 |
| S 12 | 3 16 | 13 23 | 1 22 | 12 25 | 0 23 | 17 17 | 5 8 | 12 30 | 1 8 | 7 35 | 1 0 | 19 29 | 1 35 | 2 11 | 0 40 | 15 52 | 0 15 | 21 25 | 1 46 | 17 2 | 17 32 | 13 7 | 5 9 | 2 0 |
| S 13 | 2 52 | 16 29 | 0 14 | 12 27 | 0 10 | 17 35 | 5 16 | 12 13 | 1 8 | 7 29 | 1 0 | 19 30 | 1 35 | 2 13 | 0 40 | 15 51 | 0 15 | 21 25 | 1 46 | 17 2 | 17 31 | 13 5 | 5 10 | 2 0 |
| M14 | 2 28 | 18 47 | 0n56 | 12 27 | 0s 3 | 17 53 | 5 23 | 11 57 | 1 8 | 7 24 | 1 0 | 19 31 | 1 35 | 2 14 | 0 40 | 15 51 | 0 15 | 21 25 | 1 46 | 17 2 | 17 30 | 13 3 | 5 12 | 2 0 |
| T 15 | 2 5 | 20 5 | 2 4 | 12 26 | 0 14 | 18 10 | 5 30 | 11 40 | 1 8 | 7 18 | 1 0 | 19 32 | 1 34 | 2 15 | 0 40 | 15 50 | 0 15 | 21 25 | 1 46 | 17 2 | 17 29 | 13 1 | 5 13 | 2 0 |
| W16 | 1 41 | 20 15 | 3 7 | 12 22 | 0 26 | 18 26 | 5 37 | 11 23 | 1 8 | 7 13 | 1 0 | 19 33 | 1 34 | 2 17 | 0 40 | 15 50 | 0 15 | 21 25 | 1 46 | 17 2 | 17 28 | 12 59 | 5 14 | 2 0 |
| T 17 | 1 17 | 19 12 | 4 1 | 12 17 | 0 37 | 18 42 | 5 44 | 11 6 | 1 8 | 7 8 | 1 0 | 19 34 | 1 34 | 2 18 | 0 40 | 15 49 | 0 15 | 21 25 | 1 45 | 17 2 | 17 28 | 12 57 | 5 16 | 2 0 |
| F 18 | 0 54 | 16 55 | 4 40 | 12 9 | 0 47 | 18 56 | 5 51 | 10 49 | 1 8 | 7 2 | 1 0 | 19 35 | 1 34 | 2 20 | 0 40 | 15 49 | 0 15 | 21 25 | 1 45 | 17 1 | 17 27 | 12 56 | 5 17 | 2 0 |
| S 19 | 0 30 | 13 32 | 5 3 | 12 0 | 0 57 | 19 11 | 5 57 | 10 31 | 1 8 | 6 57 | 1 0 | 19 36 | 1 33 | 2 21 | 0 40 | 15 48 | 0 15 | 21 26 | 1 45 | 17 0 | 17 26 | 12 54 | 5 18 | 2 0 |
| S 20 | 0 6 | 9 16 | 5 6 | 11 49 | 1 7 | 19 24 | 6 4 | 10 14 | 1 8 | 6 51 | 1 0 | 19 37 | 1 33 | 2 22 | 0 40 | 15 47 | 0 15 | 21 26 | 1 45 | 16 58 | 17 25 | 12 52 | 5 20 | 2 0 |
| M21 | 0n17 | 4 26 | 4 49 | 11 37 | 1 16 | 19 36 | 6 10 | 9 56 | 1 9 | 6 46 | 1 0 | 19 38 | 1 33 | 2 24 | 0 40 | 15 47 | 0 15 | 21 26 | 1 45 | 16 56 | 17 24 | 12 50 | 5 21 | 2 0 |
| T 22 | 0 41 | 0n40 | 4 12 | 11 23 | 1 24 | 19 48 | 6 16 | 9 39 | 1 9 | 6 40 | 1 0 | 19 39 | 1 33 | 2 25 | 0 40 | 15 46 | 0 15 | 21 26 | 1 45 | 16 54 | 17 23 | 12 48 | 5 22 | 2 0 |
| W23 | 1 5 | 5 40 | 3 19 | 11 7 | 1 32 | 19 59 | 6 22 | 9 21 | 1 9 | 6 35 | 1 0 | 19 40 | 1 33 | 2 26 | 0 40 | 15 46 | 0 15 | 21 26 | 1 45 | 16 52 | 17 22 | 12 46 | 5 24 | 1 59 |
| T 24 | 1 28 | 10 16 | 2 15 | 10 50 | 1 40 | 20 9 | 6 28 | 9 4 | 1 9 | 6 29 | 1 1 | 19 41 | 1 32 | 2 28 | 0 40 | 15 45 | 0 15 | 21 26 | 1 45 | 16 51 | 17 21 | 12 44 | 5 25 | 1 59 |
| F 25 | 1 52 | 14 10 | 1 3 | 10 31 | 1 47 | 20 18 | 6 34 | 8 46 | 1 9 | 6 24 | 1 1 | 19 42 | 1 32 | 2 29 | 0 40 | 15 45 | 0 15 | 21 26 | 1 45 | 16 50 | 17 21 | 12 42 | 5 27 | 1 59 |
| S 26 | 2 15 | 17 11 | 0s10 | 10 11 | 1 53 | 20 26 | 6 39 | 8 28 | 1 9 | 6 19 | 1 1 | 19 43 | 1 32 | 2 30 | 0 40 | 15 44 | 0 15 | 21 26 | 1 45 | 16 50 | 17 20 | 12 40 | 5 28 | 1 59 |
| S 27 | 2 39 | 19 11 | 1 20 | 9 49 | 1 59 | 20 33 | 6 44 | 8 10 | 1 8 | 6 13 | 1 1 | 19 44 | 1 32 | 2 32 | 0 40 | 15 44 | 0 15 | 21 26 | 1 44 | 16 51 | 17 19 | 12 39 | 5 29 | 1 59 |
| M28 | 3 2 | 20 9 | 2 24 | 9 25 | 2 5 | 20 38 | 6 48 | 7 52 | 1 8 | 6 8 | 1 1 | 19 46 | 1 32 | 2 33 | 0 40 | 15 43 | 0 15 | 21 26 | 1 44 | 16 51 | 17 18 | 12 37 | 5 31 | 1 59 |
| T 29 | 3 26 | 20 6 | 3 20 | 9 1 | 2 9 | 20 43 | 6 52 | 7 34 | 1 8 | 6 2 | 1 1 | 19 47 | 1 31 | 2 34 | 0 40 | 15 43 | 0 15 | 21 27 | 1 44 | 16 51 | 17 17 | 12 35 | 5 32 | 1 59 |
| W30 | 3 49 | 19 6 | 4 6 | 8 35 | 2 14 | 20 47 | 6 56 | 7 16 | 1 8 | 5 57 | 1 1 | 19 48 | 1 31 | 2 36 | 0 40 | 15 42 | 0 15 | 21 27 | 1 44 | 16 52 | 17 16 | 12 33 | 5 33 | 1 59 |
| T 31 | 4n12 | 17n16 | 4s40 | 8s 7 | 2s18 | 20n49 | 7n 0 | 6s58 | 1s 8 | 5s52 | 1s 1 | 19n49 | 1s31 | 2n37 | 0s40 | 15s42 | 0s15 | 21n27 | 1s44 | 16s51 | 17s15 | 12n31 | 5n35 | 1n59 |

Julian Day Number = 2333996.5, Delta T = 24.72 sec
Ecliptic obliquity = 23°28'47, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'52, Lahiri = 19°21'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## APRIL 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 38 37 | 11♈35'02 | 2♌33 | 16♓ 9 | 7°R57 | 15♓48 | 17♓48 | 5♊53 | 8♈11 | 18♒ 2 | 8♋59 | 16°R40 | 18♏ 4 | 11♌22 | 9♈32 | F 1 |
| S 2 | 12 42 33 | 12°34'01 | 14°25 | 17°33 | 7♉49 | 16°35 | 18° 1 | 5°59 | 8°14 | 18° 4 | 8°59 | 16♏36 | 18° 1 | 11°28 | 9°36 | S 2 |
| S 3 | 12 46 30 | 13°32'59 | 26°20 | 18°59 | 7°39 | 17°22 | 18°15 | 6° 5 | 8°18 | 18° 5 | 8°59 | 16°32 | 17°57 | 11°35 | 9°39 | S 3 |
| M 4 | 12 50 27 | 14°31'54 | 8♍23 | 20°26 | 7°26 | 18° 9 | 18°29 | 6°10 | 8°21 | 18° 7 | 9° 0 | 16°26 | 17°54 | 11°42 | 9°43 | M 4 |
| T 5 | 12 54 23 | 15°30'46 | 20°34 | 21°55 | 7°11 | 18°56 | 18°43 | 6°16 | 8°25 | 18° 8 | 9° 0 | 16°20 | 17°51 | 11°49 | 9°47 | T 5 |
| W 6 | 12 58 20 | 16°29'37 | 2♎57 | 23°26 | 6°54 | 19°42 | 18°56 | 6°22 | 8°28 | 18°10 | 9° 0 | 16°15 | 17°48 | 11°55 | 9°50 | W 6 |
| T 7 | 13 2 16 | 17°28'26 | 15°32 | 24°58 | 6°34 | 20°29 | 19°10 | 6°28 | 8°31 | 18°11 | 9° 1 | 16°11 | 17°45 | 12° 2 | 9°54 | T 7 |
| F 8 | 13 6 13 | 18°27'12 | 28°20 | 26°32 | 6°12 | 21°16 | 19°24 | 6°34 | 8°35 | 18°13 | 9° 1 | 16° 9 | 17°42 | 12° 9 | 9°58 | F 8 |
| S 9 | 13 10 9 | 19°25'57 | 11♏21 | 28° 8 | 5°47 | 22° 2 | 19°37 | 6°40 | 8°38 | 18°14 | 9° 1 | 16°D 8 | 17°38 | 12°15 | 10° 1 | S 9 |
| S 10 | 13 14 6 | 20°24'40 | 24°34 | 29°45 | 5°21 | 22°49 | 19°51 | 6°46 | 8°42 | 18°15 | 9° 2 | 16° 8 | 17°35 | 12°22 | 10° 5 | S 10 |
| M11 | 13 18 2 | 21°23'21 | 8♐ 0 | 1♈24 | 4°52 | 23°36 | 20° 4 | 6°53 | 8°45 | 18°16 | 9° 2 | 16° 9 | 17°32 | 12°29 | 10° 9 | M11 |
| T 12 | 13 21 59 | 22°22'00 | 21°37 | 3° 4 | 4°22 | 24°22 | 20°18 | 6°59 | 8°48 | 18°18 | 9° 3 | 16°10 | 17°29 | 12°36 | 10°12 | T 12 |
| W13 | 13 25 56 | 23°20'38 | 5♑27 | 4°46 | 3°50 | 25° 9 | 20°31 | 7° 5 | 8°52 | 18°19 | 9° 3 | 16°12 | 17°26 | 12°42 | 10°16 | W13 |
| T 14 | 13 29 52 | 24°19'14 | 19°27 | 6°30 | 3°16 | 25°55 | 20°44 | 7°12 | 8°55 | 18°20 | 9° 4 | 16°R12 | 17°23 | 12°49 | 10°19 | T 14 |
| F 15 | 13 33 49 | 25°17'48 | 3♒38 | 8°15 | 2°41 | 26°42 | 20°57 | 7°18 | 8°58 | 18°21 | 9° 4 | 16°12 | 17°19 | 12°56 | 10°23 | F 15 |
| S 16 | 13 37 45 | 26°16'21 | 17°56 | 10° 2 | 2° 6 | 27°28 | 21°11 | 7°25 | 9° 2 | 18°22 | 9° 5 | 16°11 | 17°16 | 13° 2 | 10°27 | S 16 |
| S 17 | 13 41 42 | 27°14'51 | 2♓20 | 11°51 | 1°29 | 28°15 | 21°24 | 7°31 | 9° 5 | 18°24 | 9° 5 | 16° 9 | 17°13 | 13° 9 | 10°30 | S 17 |
| M18 | 13 45 38 | 28°13'21 | 16°45 | 13°41 | 0°52 | 29° 1 | 21°37 | 7°38 | 9° 8 | 18°25 | 9° 6 | 16° 7 | 17°10 | 13°16 | 10°34 | M18 |
| T 19 | 13 49 35 | 29°11'48 | 1♈ 5 | 15°33 | 0°14 | 29°47 | 21°50 | 7°45 | 9°12 | 18°26 | 9° 7 | 16° 5 | 17° 7 | 13°23 | 10°37 | T 19 |
| W20 | 13 53 31 | 0♉10'14 | 15°17 | 17°26 | 29♈36 | 0♈34 | 22° 3 | 7°51 | 9°15 | 18°27 | 9° 7 | 16° 3 | 17° 3 | 13°29 | 10°41 | W20 |
| T 21 | 13 57 28 | 1° 8'38 | 29°16 | 19°22 | 28°58 | 1°20 | 22°15 | 7°58 | 9°18 | 18°28 | 9° 8 | 16° 2 | 17° 0 | 13°36 | 10°44 | T 21 |
| F 22 | 14 1 24 | 2° 7'01 | 12♉57 | 21°18 | 28°21 | 2° 6 | 22°28 | 8° 5 | 9°21 | 18°29 | 9° 9 | 16°D 1 | 16°57 | 13°43 | 10°48 | F 22 |
| S 23 | 14 5 21 | 3° 5'21 | 26°18 | 23°17 | 27°44 | 2°53 | 22°41 | 8°12 | 9°25 | 18°30 | 9° 9 | 16° 1 | 16°54 | 13°50 | 10°51 | S 23 |
| S 24 | 14 9 18 | 4° 3'40 | 9♊20 | 25°17 | 27° 8 | 3°39 | 22°54 | 8°19 | 9°28 | 18°30 | 9°10 | 16° 2 | 16°51 | 13°56 | 10°55 | S 24 |
| M25 | 14 13 14 | 5° 1'56 | 22° 1 | 27°18 | 26°34 | 4°25 | 23° 6 | 8°26 | 9°31 | 18°31 | 9°11 | 16° 3 | 16°48 | 14° 3 | 10°58 | M25 |
| T 26 | 14 17 11 | 6° 0'11 | 4♋26 | 29°22 | 26° 0 | 5°11 | 23°19 | 8°33 | 9°34 | 18°32 | 9°12 | 16° 4 | 16°44 | 14°10 | 11° 2 | T 26 |
| W27 | 14 21 7 | 6°58'23 | 16°36 | 1♌26 | 25°28 | 5°57 | 23°31 | 8°40 | 9°37 | 18°33 | 9°13 | 16° 5 | 16°41 | 14°16 | 11° 5 | W27 |
| T 28 | 14 25 4 | 7°56'34 | 28°36 | 3°32 | 24°57 | 6°43 | 23°43 | 8°47 | 9°40 | 18°34 | 9°13 | 16° 5 | 16°38 | 14°23 | 11° 8 | T 28 |
| F 29 | 14 29 0 | 8°54'43 | 10♌31 | 5°39 | 24°29 | 7°29 | 23°56 | 8°54 | 9°44 | 18°34 | 9°14 | 16°R 5 | 16°35 | 14°30 | 11°12 | F 29 |
| S 30 | 14 32 57 | 9♉52'49 | 22♌24 | 7♉47 | 24♈ 2 | 8♈15 | 24♓ 8 | 9♊ 1 | 9♈47 | 18♒35 | 9♋15 | 16♏ 5 | 16♏32 | 14♌37 | 11♈15 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n35 | 14n43 | 5s 2 | 7s38 | 2s21 | 20n50 | 7n 3 | 6s39 | 1s 8 | 5s46 | 1s 1 | 19n50 | 1s31 | 2n39 | 0s40 | 15s41 | 0s15 | 21n27 | 1s44 | 16s51 | 17s14 | 12n29 | 5n36 | 1n59 |
| S 2 | 4 58 | 11 34 | 5 11 | 7 8 | 2 24 | 20 50 | 7 5 | 6 21 | 1 8 | 5 41 | 1 1 | 19 51 | 1 31 | 2 40 | 0 40 | 15 41 | 0 15 | 21 27 | 1 44 | 16 50 | 17 14 | 12 27 | 5 38 | 1 59 |
| S 3 | 5 21 | 7 57 | 5 7 | 6 37 | 2 27 | 20 48 | 7 7 | 6 3 | 1 8 | 5 36 | 1 2 | 19 53 | 1 30 | 2 41 | 0 40 | 15 41 | 0 15 | 21 27 | 1 44 | 16 48 | 17 13 | 12 25 | 5 39 | 1 59 |
| M 4 | 5 44 | 3 58 | 4 49 | 6 4 | 2 29 | 20 45 | 7 8 | 5 44 | 1 8 | 5 30 | 1 2 | 19 54 | 1 30 | 2 43 | 0 40 | 15 40 | 0 15 | 21 27 | 1 44 | 16 47 | 17 12 | 12 23 | 5 40 | 1 59 |
| T 5 | 6 7 | 0s13 | 4 18 | 5 30 | 2 30 | 20 41 | 7 9 | 5 26 | 1 8 | 5 25 | 1 2 | 19 55 | 1 30 | 2 44 | 0 40 | 15 40 | 0 15 | 21 27 | 1 44 | 16 45 | 17 11 | 12 21 | 5 42 | 1 59 |
| W 6 | 6 30 | 4 27 | 3 34 | 4 55 | 2 31 | 20 35 | 7 9 | 5 7 | 1 8 | 5 20 | 1 2 | 19 56 | 1 30 | 2 45 | 0 40 | 15 39 | 0 15 | 21 27 | 1 43 | 16 44 | 17 10 | 12 19 | 5 43 | 1 58 |
| T 7 | 6 52 | 8 35 | 2 40 | 4 19 | 2 31 | 20 28 | 7 9 | 4 49 | 1 8 | 5 15 | 1 2 | 19 57 | 1 30 | 2 47 | 0 40 | 15 39 | 0 15 | 21 27 | 1 43 | 16 43 | 17 9 | 12 18 | 5 45 | 1 58 |
| F 8 | 7 15 | 12 24 | 1 36 | 3 41 | 2 31 | 20 19 | 7 8 | 4 30 | 1 8 | 5 9 | 1 2 | 19 58 | 1 29 | 2 48 | 0 40 | 15 38 | 0 15 | 21 27 | 1 43 | 16 42 | 17 8 | 12 16 | 5 46 | 1 58 |
| S 9 | 7 37 | 15 40 | 0 26 | 3 3 | 2 31 | 20 9 | 7 6 | 4 12 | 1 7 | 5 4 | 1 2 | 20 0 | 1 29 | 2 49 | 0 40 | 15 38 | 0 15 | 21 27 | 1 43 | 16 41 | 17 7 | 12 14 | 5 47 | 1 58 |
| S 10 | 7 59 | 18 12 | 0n46 | 2 23 | 2 29 | 19 58 | 7 3 | 3 53 | 1 7 | 4 59 | 1 2 | 20 1 | 1 29 | 2 51 | 0 40 | 15 38 | 0 15 | 21 27 | 1 43 | 16 42 | 17 6 | 12 12 | 5 49 | 1 58 |
| M11 | 8 21 | 19 45 | 1 57 | 1 42 | 2 28 | 19 45 | 7 0 | 3 35 | 1 7 | 4 54 | 1 2 | 20 2 | 1 29 | 2 52 | 0 40 | 15 37 | 0 15 | 21 28 | 1 43 | 16 42 | 17 6 | 12 10 | 5 50 | 1 58 |
| T 12 | 8 43 | 20 10 | 3 3 | 1 0 | 2 26 | 19 30 | 6 56 | 3 16 | 1 7 | 4 49 | 1 3 | 20 3 | 1 29 | 2 53 | 0 40 | 15 37 | 0 15 | 21 28 | 1 43 | 16 42 | 17 5 | 12 8 | 5 51 | 1 58 |
| W13 | 9 5 | 19 23 | 3 59 | 0 17 | 2 23 | 19 14 | 6 51 | 2 57 | 1 7 | 4 44 | 1 3 | 20 5 | 1 28 | 2 55 | 0 40 | 15 37 | 0 15 | 21 28 | 1 43 | 16 43 | 17 4 | 12 6 | 5 53 | 1 58 |
| T 14 | 9 27 | 17 25 | 4 41 | 0n27 | 2 20 | 18 57 | 6 45 | 2 39 | 1 7 | 4 38 | 1 3 | 20 6 | 1 28 | 2 56 | 0 40 | 15 36 | 0 15 | 21 28 | 1 43 | 16 43 | 17 3 | 12 4 | 5 54 | 1 58 |
| F 15 | 9 48 | 14 23 | 5 7 | 1 12 | 2 16 | 18 39 | 6 38 | 2 20 | 1 7 | 4 33 | 1 3 | 20 7 | 1 28 | 2 57 | 0 40 | 15 36 | 0 15 | 21 28 | 1 43 | 16 43 | 17 2 | 12 2 | 5 56 | 1 58 |
| S 16 | 10 9 | 10 29 | 5 15 | 1 58 | 2 12 | 18 20 | 6 31 | 2 1 | 1 6 | 4 28 | 1 3 | 20 8 | 1 28 | 2 59 | 0 40 | 15 36 | 0 16 | 21 28 | 1 42 | 16 43 | 17 1 | 12 0 | 5 57 | 1 58 |
| S 17 | 10 31 | 5 57 | 5 3 | 2 45 | 2 7 | 17 59 | 6 23 | 1 43 | 1 6 | 4 23 | 1 3 | 20 10 | 1 28 | 3 0 | 0 40 | 15 35 | 0 16 | 21 28 | 1 42 | 16 42 | 17 0 | 11 58 | 5 58 | 1 58 |
| M18 | 10 52 | 1 5 | 4 31 | 3 32 | 2 2 | 17 37 | 6 14 | 1 24 | 1 6 | 4 18 | 1 3 | 20 11 | 1 28 | 3 1 | 0 40 | 15 35 | 0 16 | 21 28 | 1 42 | 16 41 | 16 59 | 11 56 | 6 0 | 1 58 |
| T 19 | 11 12 | 3n51 | 3 43 | 4 21 | 1 56 | 17 15 | 6 5 | 1 5 | 1 6 | 4 13 | 1 4 | 20 12 | 1 27 | 3 2 | 0 40 | 15 35 | 0 16 | 21 28 | 1 42 | 16 41 | 16 58 | 11 54 | 6 1 | 1 58 |
| W20 | 11 33 | 8 31 | 2 42 | 5 10 | 1 50 | 16 52 | 5 54 | 0 47 | 1 6 | 4 8 | 1 4 | 20 13 | 1 27 | 3 4 | 0 40 | 15 34 | 0 16 | 21 28 | 1 42 | 16 40 | 16 57 | 11 53 | 6 2 | 1 58 |
| T 21 | 11 53 | 12 39 | 1 31 | 6 0 | 1 43 | 16 28 | 5 43 | 0 28 | 1 5 | 4 3 | 1 4 | 20 14 | 1 27 | 3 5 | 0 40 | 15 34 | 0 16 | 21 28 | 1 42 | 16 40 | 16 57 | 11 51 | 6 4 | 1 58 |
| F 22 | 12 14 | 16 1 | 0 17 | 6 51 | 1 36 | 16 4 | 5 32 | 0 9 | 1 5 | 3 58 | 1 4 | 20 16 | 1 27 | 3 6 | 0 40 | 15 34 | 0 16 | 21 28 | 1 42 | 16 40 | 16 56 | 11 49 | 6 5 | 1 58 |
| S 23 | 12 34 | 18 27 | 0s57 | 7 42 | 1 28 | 15 39 | 5 20 | 0n 9 | 1 5 | 3 53 | 1 4 | 20 17 | 1 27 | 3 7 | 0 40 | 15 33 | 0 16 | 21 28 | 1 42 | 16 40 | 16 55 | 11 47 | 6 6 | 1 58 |
| S 24 | 12 54 | 19 49 | 2 5 | 8 33 | 1 20 | 15 14 | 5 7 | 0 28 | 1 5 | 3 49 | 1 4 | 20 18 | 1 27 | 3 9 | 0 40 | 15 33 | 0 16 | 21 28 | 1 42 | 16 40 | 16 54 | 11 45 | 6 8 | 1 58 |
| M25 | 13 13 | 20 8 | 3 6 | 9 25 | 1 12 | 14 50 | 4 54 | 0 46 | 1 4 | 3 44 | 1 4 | 20 19 | 1 26 | 3 10 | 0 40 | 15 33 | 0 16 | 21 28 | 1 42 | 16 40 | 16 53 | 11 43 | 6 9 | 1 58 |
| T 26 | 13 33 | 19 27 | 3 57 | 10 17 | 1 3 | 14 25 | 4 41 | 1 5 | 1 4 | 3 39 | 1 5 | 20 21 | 1 26 | 3 11 | 0 40 | 15 33 | 0 16 | 21 28 | 1 41 | 16 40 | 16 52 | 11 41 | 6 10 | 1 58 |
| W27 | 13 52 | 17 53 | 4 36 | 11 10 | 0 53 | 14 0 | 4 27 | 1 23 | 1 4 | 3 34 | 1 5 | 20 22 | 1 26 | 3 12 | 0 40 | 15 33 | 0 16 | 21 28 | 1 41 | 16 41 | 16 51 | 11 39 | 6 12 | 1 58 |
| T 28 | 14 11 | 15 32 | 5 2 | 12 2 | 0 44 | 13 36 | 4 13 | 1 42 | 1 4 | 3 29 | 1 5 | 20 23 | 1 26 | 3 14 | 0 40 | 15 32 | 0 16 | 21 28 | 1 41 | 16 41 | 16 50 | 11 37 | 6 13 | 1 58 |
| F 29 | 14 30 | 12 34 | 5 15 | 12 54 | 0 34 | 13 12 | 3 59 | 2 0 | 1 3 | 3 25 | 1 5 | 20 24 | 1 26 | 3 15 | 0 40 | 15 32 | 0 16 | 21 28 | 1 41 | 16 41 | 16 49 | 11 35 | 6 14 | 1 58 |
| S 30 | 14n48 | 9n 6 | 5s15 | 13n45 | 0s24 | 12n49 | 3n45 | 2n19 | 1s 3 | 3s20 | 1s 5 | 20n26 | 1s26 | 3n16 | 0s40 | 15s32 | 0s16 | 21n29 | 1s41 | 16s41 | 16s48 | 11n33 | 6n16 | 1n58 |

Julian Day Number = 2334027.5, Delta T = 24.67 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°14'57, Lahiri = 19°21'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## MAY 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 36 53 | 10♉50'54 | 4♍21 | 9♉56 | 23°R37 | 9♈ 1 | 24♓20 | 9♊ 8 | 9♈50 | 18♒36 | 9♋16 | 16°R 5 | 16♏28 | 14♌43 | 11♈18 | S 1 |
| M 2 | 14 40 50 | 11°48'56 | 16°25 | 12° 6 | 23♈15 | 9°47 | 24°32 | 9°16 | 9°53 | 18°36 | 9°17 | 16♏ 4 | 16°25 | 14°50 | 11°22 | M 2 |
| T 3 | 14 44 47 | 12°46'57 | 28°41 | 14°16 | 22°54 | 10°33 | 24°44 | 9°23 | 9°56 | 18°37 | 9°18 | 16° 4 | 16°22 | 14°57 | 11°25 | T 3 |
| W 4 | 14 48 43 | 13°44'56 | 11♎12 | 16°26 | 22°36 | 11°19 | 24°56 | 9°30 | 9°59 | 18°38 | 9°19 | 16° 4 | 16°19 | 15° 3 | 11°28 | W 4 |
| T 5 | 14 52 40 | 14°42'53 | 23°59 | 18°37 | 22°21 | 12° 5 | 25° 8 | 9°38 | 10° 2 | 18°38 | 9°20 | 16° 3 | 16°16 | 15°10 | 11°31 | T 5 |
| F 6 | 14 56 36 | 15°40'49 | 7♏ 4 | 20°47 | 22° 8 | 12°50 | 25°19 | 9°45 | 10° 5 | 18°39 | 9°21 | 16° 3 | 16°13 | 15°17 | 11°34 | F 6 |
| S 7 | 15 0 33 | 16°38'43 | 20°26 | 22°56 | 21°57 | 13°36 | 25°31 | 9°52 | 10° 8 | 18°39 | 9°22 | 16° 3 | 16° 9 | 15°24 | 11°38 | S 7 |
| S 8 | 15 4 29 | 17°36'35 | 4♐ 4 | 25° 5 | 21°49 | 14°22 | 25°43 | 10° 0 | 10°10 | 18°40 | 9°23 | 16° 3 | 16° 6 | 15°30 | 11°41 | S 8 |
| M 9 | 15 8 26 | 18°34'26 | 17°56 | 27°12 | 21°43 | 15° 7 | 25°54 | 10° 7 | 10°13 | 18°40 | 9°24 | 16° 3 | 16° 3 | 15°37 | 11°44 | M 9 |
| T 10 | 15 12 22 | 19°32'16 | 2♑ 0 | 29°18 | 21°39 | 15°53 | 26° 5 | 10°15 | 10°16 | 18°40 | 9°25 | 16° 3 | 16° 0 | 15°44 | 11°47 | T 10 |
| W11 | 15 16 19 | 20°30'05 | 16°11 | 1♊23 | 21°D38 | 16°38 | 26°17 | 10°22 | 10°19 | 18°41 | 9°26 | 16° 2 | 15°57 | 15°51 | 11°50 | W11 |
| T 12 | 15 20 16 | 21°27'52 | 0♒26 | 3°25 | 21°40 | 17°24 | 26°28 | 10°30 | 10°22 | 18°41 | 9°27 | 16° 2 | 15°54 | 15°57 | 11°53 | T 12 |
| F 13 | 15 24 12 | 22°25'38 | 14°42 | 5°25 | 21°43 | 18° 9 | 26°39 | 10°37 | 10°25 | 18°41 | 9°28 | 16° 2 | 15°50 | 16° 4 | 11°56 | F 13 |
| S 14 | 15 28 9 | 23°23'23 | 28°56 | 7°23 | 21°49 | 18°55 | 26°50 | 10°45 | 10°27 | 18°42 | 9°29 | 16°D 2 | 15°47 | 16°11 | 11°59 | S 14 |
| S 15 | 15 32 5 | 24°21'07 | 13♓ 6 | 9°19 | 21°57 | 19°40 | 27° 1 | 10°53 | 10°30 | 18°42 | 9°30 | 16° 2 | 15°44 | 16°17 | 12° 2 | S 15 |
| M16 | 15 36 2 | 25°18'50 | 27° 9 | 11°11 | 22° 7 | 20°25 | 27°12 | 11° 0 | 10°33 | 18°42 | 9°31 | 16° 3 | 15°41 | 16°24 | 12° 5 | M16 |
| T 17 | 15 39 58 | 26°16'32 | 11♈ 3 | 13° 1 | 22°20 | 21°10 | 27°22 | 11° 8 | 10°35 | 18°42 | 9°32 | 16° 3 | 15°38 | 16°31 | 12° 8 | T 17 |
| W18 | 15 43 55 | 27°14'12 | 24°47 | 14°49 | 22°34 | 21°56 | 27°33 | 11°16 | 10°38 | 18°42 | 9°34 | 16° 4 | 15°34 | 16°38 | 12°11 | W18 |
| T 19 | 15 47 51 | 28°11'52 | 8♉18 | 16°33 | 22°51 | 22°41 | 27°43 | 11°23 | 10°40 | 18°42 | 9°35 | 16° 5 | 15°31 | 16°44 | 12°13 | T 19 |
| F 20 | 15 51 48 | 29° 9'30 | 21°37 | 18°14 | 23° 9 | 23°26 | 27°54 | 11°31 | 10°43 | 18°42 | 9°36 | 16°R 5 | 15°28 | 16°51 | 12°16 | F 20 |
| S 21 | 15 55 45 | 0♊ 7'08 | 4♊40 | 19°53 | 23°29 | 24°11 | 28° 4 | 11°39 | 10°46 | 18°R42 | 9°37 | 16° 4 | 15°25 | 16°58 | 12°19 | S 21 |
| S 22 | 15 59 41 | 1° 4'44 | 17°29 | 21°28 | 23°51 | 24°56 | 28°14 | 11°46 | 10°48 | 18°42 | 9°39 | 16° 3 | 15°22 | 17° 5 | 12°21 | S 22 |
| M23 | 16 3 38 | 2° 2'19 | 0♋ 3 | 23° 0 | 24°14 | 25°41 | 28°24 | 11°54 | 10°50 | 18°42 | 9°40 | 16° 1 | 15°19 | 17°11 | 12°24 | M23 |
| T 24 | 16 7 34 | 2°59'52 | 12°23 | 24°29 | 24°40 | 26°26 | 28°34 | 12° 2 | 10°53 | 18°42 | 9°41 | 15°58 | 15°15 | 17°18 | 12°27 | T 24 |
| W25 | 16 11 31 | 3°57'24 | 24°32 | 25°55 | 25° 7 | 27°10 | 28°44 | 12°10 | 10°55 | 18°42 | 9°42 | 15°56 | 15°12 | 17°25 | 12°29 | W25 |
| T 26 | 16 15 27 | 4°54'55 | 6♌32 | 27°18 | 25°35 | 27°55 | 28°54 | 12°17 | 10°58 | 18°42 | 9°44 | 15°53 | 15° 9 | 17°31 | 12°32 | T 26 |
| F 27 | 16 19 24 | 5°52'25 | 18°26 | 28°37 | 26° 5 | 28°40 | 29° 3 | 12°25 | 11° 0 | 18°42 | 9°45 | 15°52 | 15° 6 | 17°38 | 12°34 | F 27 |
| S 28 | 16 23 20 | 6°49'53 | 0♍19 | 29°53 | 26°36 | 29°25 | 29°13 | 12°33 | 11° 2 | 18°42 | 9°46 | 15°51 | 15° 3 | 17°45 | 12°37 | S 28 |
| S 29 | 16 27 17 | 7°47'20 | 12°15 | 1♋ 6 | 27° 9 | 0♉ 9 | 29°22 | 12°41 | 11° 4 | 18°41 | 9°48 | 15°D50 | 15° 0 | 17°52 | 12°39 | S 29 |
| M30 | 16 31 14 | 8°44'46 | 24°19 | 2°16 | 27°43 | 0°54 | 29°31 | 12°49 | 11° 7 | 18°41 | 9°49 | 15°51 | 14°56 | 17°58 | 12°42 | M30 |
| T 31 | 16 35 10 | 9♊42'11 | 6♎36 | 3♋22 | 28♈18 | 1♉38 | 29♓40 | 12♊57 | 11♈ 9 | 18♒41 | 9♋50 | 15♏53 | 14♏53 | 18♌ 5 | 12♈44 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n 6 | 5n15 | 5s 1 | 14n37 | 0s13 | 12n27 | 3n30 | 2n37 | 1s 3 | 3s15 | 1s 5 | 20n27 | 1s26 | 3n17 | 0s40 | 15s32 | 0s16 | 21n29 | 1s41 | 16s41 | 16s47 | 11n31 | 6n17 | 1n58 |
| M 2 | 15 24 | 1 10 | 4 34 | 15 27 | 0 3 | 12 5 | 3 16 | 2 56 | 1 3 | 3 11 | 1 6 | 20 28 | 1 25 | 3 18 | 0 40 | 15 32 | 0 16 | 21 29 | 1 41 | 16 41 | 16 47 | 11 29 | 6 18 | 1 58 |
| T 3 | 15 42 | 3s 3 | 3 53 | 16 16 | 0n 8 | 11 44 | 3 2 | 3 14 | 1 2 | 3 6 | 1 6 | 20 29 | 1 25 | 3 20 | 0 40 | 15 31 | 0 16 | 21 29 | 1 41 | 16 40 | 16 46 | 11 27 | 6 19 | 1 58 |
| W 4 | 16 0 | 7 13 | 3 1 | 17 5 | 0 19 | 11 24 | 2 47 | 3 32 | 1 2 | 3 1 | 1 6 | 20 31 | 1 25 | 3 21 | 0 40 | 15 31 | 0 16 | 21 29 | 1 41 | 16 40 | 16 45 | 11 25 | 6 21 | 1 57 |
| T 5 | 16 17 | 11 10 | 1 59 | 17 51 | 0 29 | 11 5 | 2 33 | 3 50 | 1 2 | 2 57 | 1 6 | 20 32 | 1 25 | 3 22 | 0 40 | 15 31 | 0 16 | 21 29 | 1 41 | 16 40 | 16 44 | 11 23 | 6 22 | 1 57 |
| F 6 | 16 34 | 14 40 | 0 50 | 18 37 | 0 39 | 10 47 | 2 19 | 4 8 | 1 1 | 2 52 | 1 6 | 20 33 | 1 25 | 3 23 | 0 40 | 15 31 | 0 16 | 21 29 | 1 41 | 16 40 | 16 43 | 11 22 | 6 23 | 1 57 |
| S 7 | 16 50 | 17 30 | 0n24 | 19 20 | 0 50 | 10 30 | 2 5 | 4 26 | 1 1 | 2 48 | 1 6 | 20 34 | 1 25 | 3 24 | 0 40 | 15 31 | 0 16 | 21 29 | 1 40 | 16 40 | 16 42 | 11 20 | 6 24 | 1 57 |
| S 8 | 17 7 | 19 23 | 1 38 | 20 2 | 0 59 | 10 14 | 1 52 | 4 44 | 1 1 | 2 44 | 1 7 | 20 35 | 1 25 | 3 25 | 0 40 | 15 31 | 0 16 | 21 29 | 1 40 | 16 40 | 16 41 | 11 18 | 6 26 | 1 57 |
| M 9 | 17 23 | 20 9 | 2 48 | 20 41 | 1 9 | 10 0 | 1 38 | 5 2 | 1 0 | 2 39 | 1 7 | 20 37 | 1 25 | 3 26 | 0 40 | 15 31 | 0 16 | 21 29 | 1 40 | 16 40 | 16 40 | 11 16 | 6 27 | 1 57 |
| T 10 | 17 39 | 19 40 | 3 48 | 21 18 | 1 18 | 9 46 | 1 25 | 5 20 | 1 0 | 2 35 | 1 7 | 20 38 | 1 24 | 3 28 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 39 | 11 14 | 6 28 | 1 57 |
| W11 | 17 54 | 17 57 | 4 35 | 21 53 | 1 26 | 9 34 | 1 12 | 5 38 | 0 59 | 2 31 | 1 7 | 20 39 | 1 24 | 3 29 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 38 | 11 12 | 6 29 | 1 57 |
| T 12 | 18 10 | 15 7 | 5 5 | 22 25 | 1 34 | 9 23 | 1 0 | 5 56 | 0 59 | 2 26 | 1 7 | 20 40 | 1 24 | 3 30 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 37 | 11 10 | 6 30 | 1 57 |
| F 13 | 18 24 | 11 24 | 5 17 | 22 55 | 1 42 | 9 13 | 0 48 | 6 14 | 0 59 | 2 22 | 1 8 | 20 41 | 1 24 | 3 31 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 36 | 11 8 | 6 32 | 1 57 |
| S 14 | 18 39 | 7 2 | 5 9 | 23 22 | 1 49 | 9 4 | 0 36 | 6 31 | 0 58 | 2 18 | 1 8 | 20 43 | 1 24 | 3 32 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 36 | 11 6 | 6 33 | 1 57 |
| S 15 | 18 53 | 2 18 | 4 42 | 23 46 | 1 55 | 8 56 | 0 24 | 6 49 | 0 58 | 2 14 | 1 8 | 20 44 | 1 24 | 3 33 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 35 | 11 4 | 6 34 | 1 57 |
| M16 | 19 7 | 2n31 | 3 59 | 24 8 | 2 0 | 8 50 | 0 13 | 7 6 | 0 58 | 2 10 | 1 8 | 20 45 | 1 24 | 3 34 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 34 | 11 2 | 6 35 | 1 57 |
| T 17 | 19 21 | 7 10 | 3 2 | 24 27 | 2 5 | 8 44 | 0 2 | 7 23 | 0 57 | 2 6 | 1 8 | 20 46 | 1 24 | 3 35 | 0 40 | 15 30 | 0 16 | 21 29 | 1 40 | 16 40 | 16 33 | 11 0 | 6 36 | 1 57 |
| W18 | 19 34 | 11 24 | 1 55 | 24 44 | 2 8 | 8 40 | 0s 8 | 7 41 | 0 57 | 2 2 | 1 9 | 20 47 | 1 24 | 3 36 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 40 | 16 32 | 10 58 | 6 37 | 1 57 |
| T 19 | 19 48 | 14 59 | 0 43 | 24 59 | 2 11 | 8 37 | 0 19 | 7 58 | 0 56 | 1 58 | 1 9 | 20 48 | 1 23 | 3 37 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 41 | 16 31 | 10 56 | 6 38 | 1 57 |
| F 20 | 20 0 | 17 42 | 0s31 | 25 11 | 2 14 | 8 34 | 0 28 | 8 15 | 0 56 | 1 54 | 1 9 | 20 50 | 1 23 | 3 38 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 41 | 16 30 | 10 54 | 6 39 | 1 57 |
| S 21 | 20 13 | 19 27 | 1 41 | 25 20 | 2 15 | 8 33 | 0 38 | 8 32 | 0 55 | 1 50 | 1 9 | 20 51 | 1 23 | 3 39 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 40 | 16 29 | 10 52 | 6 41 | 1 57 |
| S 22 | 20 25 | 20 9 | 2 45 | 25 28 | 2 16 | 8 32 | 0 47 | 8 49 | 0 55 | 1 46 | 1 9 | 20 52 | 1 23 | 3 40 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 40 | 16 28 | 10 50 | 6 42 | 1 57 |
| M23 | 20 36 | 19 49 | 3 39 | 25 33 | 2 15 | 8 33 | 0 56 | 9 6 | 0 55 | 1 42 | 1 10 | 20 53 | 1 23 | 3 41 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 39 | 16 27 | 10 48 | 6 43 | 1 57 |
| T 24 | 20 48 | 18 32 | 4 23 | 25 36 | 2 14 | 8 34 | 1 4 | 9 22 | 0 54 | 1 38 | 1 10 | 20 54 | 1 23 | 3 42 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 39 | 16 26 | 10 46 | 6 44 | 1 57 |
| W25 | 20 58 | 16 26 | 4 53 | 25 37 | 2 12 | 8 37 | 1 12 | 9 39 | 0 54 | 1 35 | 1 10 | 20 55 | 1 23 | 3 43 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 38 | 16 25 | 10 44 | 6 45 | 1 57 |
| T 26 | 21 9 | 13 39 | 5 11 | 25 37 | 2 10 | 8 40 | 1 20 | 9 55 | 0 53 | 1 31 | 1 10 | 20 56 | 1 23 | 3 44 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 37 | 16 24 | 10 42 | 6 46 | 1 57 |
| F 27 | 21 19 | 10 20 | 5 15 | 25 35 | 2 6 | 8 43 | 1 28 | 10 12 | 0 53 | 1 27 | 1 11 | 20 57 | 1 23 | 3 44 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 37 | 16 24 | 10 40 | 6 47 | 1 58 |
| S 28 | 21 29 | 6 37 | 5 5 | 25 31 | 2 2 | 8 48 | 1 35 | 10 28 | 0 52 | 1 24 | 1 11 | 20 58 | 1 23 | 3 45 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 37 | 16 23 | 10 38 | 6 48 | 1 58 |
| S 29 | 21 39 | 2 38 | 4 42 | 25 25 | 1 57 | 8 53 | 1 42 | 10 44 | 0 52 | 1 20 | 1 11 | 20 59 | 1 23 | 3 46 | 0 40 | 15 30 | 0 16 | 21 29 | 1 39 | 16 37 | 16 22 | 10 36 | 6 49 | 1 58 |
| M30 | 21 48 | 1s31 | 4 7 | 25 19 | 1 51 | 8 59 | 1 48 | 11 0 | 0 51 | 1 17 | 1 11 | 21 1 | 1 22 | 3 47 | 0 40 | 15 31 | 0 16 | 21 29 | 1 38 | 16 37 | 16 21 | 10 34 | 6 50 | 1 58 |
| T 31 | 21n57 | 5s41 | 3s20 | 25n11 | 1n44 | 9n 6 | 1s55 | 11n16 | 0s51 | 1s13 | 1s11 | 21n 2 | 1s22 | 3n48 | 0s40 | 15s31 | 0s16 | 21n29 | 1s38 | 16s37 | 16s20 | 10n33 | 6n51 | 1n58 |

Julian Day Number = 2334057.5, Delta T = 24.62 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'01, Lahiri = 19°22'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## JUNE 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 39 7 | 10♊39'34 | 19♎ 9 | 4♋24 | 28♈54 | 2♉23 | 29♓49 | 13♊ 4 | 11♈11 | 18°R40 | 9♋52 | 15♏54 | 14♏50 | 18♌12 | 12♈46 | W 1 |
| T 2 | 16 43 3 | 11°36'57 | 2♏ 2 | 5°23 | 29°32 | 3° 7 | 29°58 | 13°12 | 11°13 | 18♒40 | 9°53 | 15°56 | 14°47 | 18°18 | 12°49 | T 2 |
| F 3 | 16 47 0 | 12°34'18 | 15°17 | 6°18 | 0♉11 | 3°51 | 0♈ 7 | 13°20 | 11°15 | 18°40 | 9°54 | 15°R56 | 14°44 | 18°25 | 12°51 | F 3 |
| S 4 | 16 50 56 | 13°31'38 | 28°56 | 7° 9 | 0°50 | 4°35 | 0°15 | 13°28 | 11°17 | 18°39 | 9°56 | 15°56 | 14°40 | 18°32 | 12°53 | S 4 |
| S 5 | 16 54 53 | 14°28'58 | 12♐56 | 7°57 | 1°31 | 5°20 | 0°24 | 13°36 | 11°19 | 18°39 | 9°57 | 15°54 | 14°37 | 18°39 | 12°55 | S 5 |
| M 6 | 16 58 49 | 15°26'17 | 27°14 | 8°41 | 2°13 | 6° 4 | 0°32 | 13°43 | 11°21 | 18°38 | 9°59 | 15°51 | 14°34 | 18°45 | 12°57 | M 6 |
| T 7 | 17 2 46 | 16°23'35 | 11♑46 | 9°20 | 2°56 | 6°48 | 0°40 | 13°51 | 11°23 | 18°38 | 10° 0 | 15°47 | 14°31 | 18°52 | 12°59 | T 7 |
| W 8 | 17 6 43 | 17°20'53 | 26°24 | 9°56 | 3°40 | 7°32 | 0°48 | 13°59 | 11°25 | 18°37 | 10° 1 | 15°42 | 14°28 | 18°59 | 13° 1 | W 8 |
| T 9 | 17 10 39 | 18°18'10 | 11♒ 2 | 10°27 | 4°25 | 8°16 | 0°56 | 14° 7 | 11°26 | 18°37 | 10° 3 | 15°38 | 14°25 | 19° 6 | 13° 3 | T 9 |
| F 10 | 17 14 36 | 19°15'27 | 25°33 | 10°54 | 5°10 | 9° 0 | 1° 4 | 14°15 | 11°28 | 18°36 | 10° 4 | 15°35 | 14°21 | 19°12 | 13° 5 | F 10 |
| S 11 | 17 18 32 | 20°12'43 | 9♓54 | 11°16 | 5°57 | 9°44 | 1°11 | 14°23 | 11°30 | 18°35 | 10° 6 | 15°33 | 14°18 | 19°19 | 13° 7 | S 11 |
| S 12 | 17 22 29 | 21° 9'59 | 24° 1 | 11°35 | 6°44 | 10°27 | 1°19 | 14°30 | 11°32 | 18°35 | 10° 7 | 15°D33 | 14°15 | 19°26 | 13° 9 | S 12 |
| M13 | 17 26 25 | 22° 7'15 | 7♈52 | 11°48 | 7°32 | 11°11 | 1°26 | 14°38 | 11°33 | 18°34 | 10° 9 | 15°33 | 14°12 | 19°32 | 13°11 | M13 |
| T 14 | 17 30 22 | 23° 4'30 | 21°28 | 11°57 | 8°21 | 11°55 | 1°33 | 14°46 | 11°35 | 18°33 | 10°10 | 15°35 | 14° 9 | 19°39 | 13°12 | T 14 |
| W15 | 17 34 18 | 24° 1'46 | 4♉50 | 12°R 2 | 9°10 | 12°38 | 1°40 | 14°54 | 11°36 | 18°33 | 10°12 | 15°36 | 14° 6 | 19°46 | 13°14 | W15 |
| T 16 | 17 38 15 | 24°59'01 | 17°58 | 12° 2 | 10° 0 | 13°22 | 1°47 | 15° 2 | 11°38 | 18°32 | 10°13 | 15°R36 | 14° 2 | 19°53 | 13°16 | T 16 |
| F 17 | 17 42 12 | 25°56'16 | 0♊54 | 11°57 | 10°51 | 14° 5 | 1°54 | 15° 9 | 11°39 | 18°31 | 10°15 | 15°35 | 13°59 | 19°59 | 13°17 | F 17 |
| S 18 | 17 46 8 | 26°53'31 | 13°37 | 11°48 | 11°43 | 14°49 | 2° 0 | 15°17 | 11°41 | 18°30 | 10°16 | 15°32 | 13°56 | 20° 6 | 13°19 | S 18 |
| S 19 | 17 50 5 | 27°50'45 | 26°10 | 11°35 | 12°35 | 15°32 | 2° 7 | 15°25 | 11°42 | 18°29 | 10°18 | 15°27 | 13°53 | 20°13 | 13°20 | S 19 |
| M20 | 17 54 1 | 28°47'59 | 8♋31 | 11°18 | 13°27 | 16°15 | 2°13 | 15°32 | 11°43 | 18°28 | 10°19 | 15°21 | 13°50 | 20°20 | 13°22 | M20 |
| T 21 | 17 57 58 | 29°45'13 | 20°43 | 10°57 | 14°20 | 16°58 | 2°19 | 15°40 | 11°45 | 18°28 | 10°21 | 15°13 | 13°46 | 20°26 | 13°23 | T 21 |
| W22 | 18 1 54 | 0♋42'26 | 2♌47 | 10°32 | 15°14 | 17°42 | 2°25 | 15°48 | 11°46 | 18°27 | 10°22 | 15° 5 | 13°43 | 20°33 | 13°25 | W22 |
| T 23 | 18 5 51 | 1°39'39 | 14°44 | 10° 4 | 16° 8 | 18°25 | 2°31 | 15°55 | 11°47 | 18°26 | 10°24 | 14°57 | 13°40 | 20°40 | 13°26 | T 23 |
| F 24 | 18 9 48 | 2°36'52 | 26°36 | 9°33 | 17° 3 | 19° 8 | 2°36 | 16° 3 | 11°48 | 18°25 | 10°25 | 14°50 | 13°37 | 20°46 | 13°27 | F 24 |
| S 25 | 18 13 44 | 3°34'04 | 8♍28 | 9° 0 | 17°58 | 19°51 | 2°42 | 16°11 | 11°49 | 18°24 | 10°27 | 14°45 | 13°34 | 20°53 | 13°28 | S 25 |
| S 26 | 18 17 41 | 4°31'16 | 20°22 | 8°26 | 18°54 | 20°33 | 2°47 | 16°18 | 11°50 | 18°23 | 10°28 | 14°42 | 13°31 | 21° 0 | 13°29 | S 26 |
| M27 | 18 21 37 | 5°28'27 | 2♎24 | 7°50 | 19°50 | 21°16 | 2°52 | 16°26 | 11°51 | 18°21 | 10°30 | 14°D41 | 13°27 | 21° 7 | 13°31 | M27 |
| T 28 | 18 25 34 | 6°25'38 | 14°38 | 7°13 | 20°47 | 21°59 | 2°57 | 16°33 | 11°52 | 18°20 | 10°31 | 14°41 | 13°24 | 21°13 | 13°32 | T 28 |
| W29 | 18 29 30 | 7°22'49 | 27° 9 | 6°36 | 21°44 | 22°42 | 3° 2 | 16°41 | 11°53 | 18°19 | 10°33 | 14°42 | 13°21 | 21°20 | 13°33 | W29 |
| T 30 | 18 33 27 | 8♋20'00 | 10♏ 1 | 6♋ 0 | 22♉41 | 23♉24 | 3♈ 6 | 16♊48 | 11♈54 | 18♒18 | 10♋34 | 14°R43 | 13♏18 | 21♌27 | 13♈33 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 22n 5 | 9s42 | 2s22 | 25n 1 | 1n37 | 9n13 | 2s 1 | 11n32 | 0s50 | 1s10 | 1s12 | 21n 3 | 1s22 | 3n49 | 0s40 | 15s31 | 0s16 | 21n29 | 1s38 | 16s38 | 16s19 | 10n31 | 6n51 | 1n58 |
| T 2 | 22 13 | 13 23 | 1 16 | 24 51 | 1 29 | 9 21 | 2 6 | 11 48 | 0 50 | 1 7 | 1 12 | 21 4 | 1 22 | 3 49 | 0 41 | 15 31 | 0 16 | 21 29 | 1 38 | 16 38 | 16 18 | 10 29 | 6 52 | 1 58 |
| F 3 | 22 20 | 16 30 | 0 4 | 24 39 | 1 20 | 9 30 | 2 12 | 12 3 | 0 49 | 1 4 | 1 12 | 21 5 | 1 22 | 3 50 | 0 41 | 15 31 | 0 16 | 21 29 | 1 38 | 16 38 | 16 17 | 10 27 | 6 53 | 1 58 |
| S 4 | 22 28 | 18 48 | 1n11 | 24 27 | 1 10 | 9 39 | 2 17 | 12 19 | 0 49 | 1 0 | 1 12 | 21 6 | 1 22 | 3 51 | 0 41 | 15 31 | 0 16 | 21 29 | 1 38 | 16 38 | 16 16 | 10 25 | 6 54 | 1 58 |
| S 5 | 22 35 | 20 2 | 2 23 | 24 14 | 0 59 | 9 48 | 2 22 | 12 34 | 0 48 | 0 57 | 1 13 | 21 7 | 1 22 | 3 52 | 0 41 | 15 31 | 0 17 | 21 29 | 1 38 | 16 37 | 16 15 | 10 23 | 6 55 | 1 58 |
| M 6 | 22 41 | 20 0 | 3 27 | 24 0 | 0 48 | 9 58 | 2 26 | 12 49 | 0 48 | 0 54 | 1 13 | 21 8 | 1 22 | 3 52 | 0 41 | 15 32 | 0 17 | 21 29 | 1 38 | 16 37 | 16 14 | 10 21 | 6 56 | 1 58 |
| T 7 | 22 47 | 18 39 | 4 19 | 23 45 | 0 36 | 10 9 | 2 31 | 13 4 | 0 47 | 0 51 | 1 13 | 21 9 | 1 22 | 3 53 | 0 41 | 15 32 | 0 17 | 21 28 | 1 38 | 16 35 | 16 13 | 10 19 | 6 57 | 1 58 |
| W 8 | 22 53 | 16 5 | 4 54 | 23 30 | 0 24 | 10 20 | 2 35 | 13 19 | 0 46 | 0 48 | 1 13 | 21 10 | 1 22 | 3 54 | 0 41 | 15 32 | 0 17 | 21 28 | 1 38 | 16 34 | 16 12 | 10 17 | 6 57 | 1 58 |
| T 9 | 22 58 | 12 30 | 5 11 | 23 14 | 0 10 | 10 31 | 2 39 | 13 34 | 0 46 | 0 45 | 1 14 | 21 11 | 1 22 | 3 55 | 0 41 | 15 32 | 0 17 | 21 28 | 1 38 | 16 33 | 16 11 | 10 15 | 6 58 | 1 58 |
| F 10 | 23 3 | 8 12 | 5 7 | 22 58 | 0s 3 | 10 43 | 2 42 | 13 48 | 0 45 | 0 42 | 1 14 | 21 12 | 1 22 | 3 55 | 0 41 | 15 32 | 0 17 | 21 28 | 1 38 | 16 32 | 16 10 | 10 13 | 6 59 | 1 58 |
| S 11 | 23 7 | 3 29 | 4 44 | 22 42 | 0 18 | 10 55 | 2 46 | 14 3 | 0 45 | 0 40 | 1 14 | 21 13 | 1 22 | 3 56 | 0 41 | 15 33 | 0 17 | 21 28 | 1 38 | 16 31 | 16 9 | 10 11 | 7 0 | 1 58 |
| S 12 | 23 11 | 1n21 | 4 4 | 22 26 | 0 33 | 11 7 | 2 49 | 14 17 | 0 44 | 0 37 | 1 14 | 21 14 | 1 22 | 3 56 | 0 41 | 15 33 | 0 17 | 21 28 | 1 38 | 16 31 | 16 9 | 10 9 | 7 1 | 1 58 |
| M13 | 23 15 | 6 3 | 3 11 | 22 9 | 0 48 | 11 20 | 2 52 | 14 31 | 0 44 | 0 34 | 1 15 | 21 15 | 1 21 | 3 57 | 0 41 | 15 33 | 0 17 | 21 28 | 1 37 | 16 32 | 16 8 | 10 7 | 7 1 | 1 58 |
| T 14 | 23 18 | 10 21 | 2 8 | 21 53 | 1 4 | 11 33 | 2 55 | 14 45 | 0 43 | 0 32 | 1 15 | 21 16 | 1 21 | 3 58 | 0 41 | 15 33 | 0 17 | 21 28 | 1 37 | 16 32 | 16 7 | 10 5 | 7 2 | 1 58 |
| W15 | 23 21 | 14 4 | 0 58 | 21 36 | 1 20 | 11 46 | 2 57 | 14 59 | 0 42 | 0 29 | 1 15 | 21 16 | 1 21 | 3 58 | 0 41 | 15 34 | 0 17 | 21 28 | 1 37 | 16 32 | 16 6 | 10 3 | 7 3 | 1 58 |
| T 16 | 23 23 | 17 1 | 0s13 | 21 20 | 1 36 | 12 0 | 3 0 | 15 13 | 0 42 | 0 27 | 1 15 | 21 17 | 1 21 | 3 59 | 0 41 | 15 34 | 0 17 | 21 28 | 1 37 | 16 32 | 16 5 | 10 1 | 7 3 | 1 58 |
| F 17 | 23 25 | 19 2 | 1 22 | 21 4 | 1 53 | 12 13 | 3 2 | 15 26 | 0 41 | 0 24 | 1 16 | 21 18 | 1 21 | 3 59 | 0 41 | 15 34 | 0 17 | 21 28 | 1 37 | 16 32 | 16 4 | 9 59 | 7 4 | 1 58 |
| S 18 | 23 27 | 20 3 | 2 26 | 20 49 | 2 9 | 12 27 | 3 4 | 15 40 | 0 41 | 0 22 | 1 16 | 21 19 | 1 21 | 4 0 | 0 41 | 15 34 | 0 17 | 21 28 | 1 37 | 16 31 | 16 3 | 9 57 | 7 5 | 1 58 |
| S 19 | 23 28 | 20 4 | 3 22 | 20 33 | 2 26 | 12 41 | 3 6 | 15 53 | 0 40 | 0 19 | 1 16 | 21 20 | 1 21 | 4 0 | 0 41 | 15 35 | 0 17 | 21 28 | 1 37 | 16 30 | 16 2 | 9 55 | 7 5 | 1 58 |
| M20 | 23 28 | 19 6 | 4 7 | 20 19 | 2 42 | 12 56 | 3 7 | 16 6 | 0 39 | 0 17 | 1 17 | 21 21 | 1 21 | 4 1 | 0 41 | 15 35 | 0 17 | 21 28 | 1 37 | 16 28 | 16 1 | 9 53 | 7 6 | 1 58 |
| T 21 | 23 29 | 17 16 | 4 40 | 20 5 | 2 57 | 13 10 | 3 9 | 16 19 | 0 39 | 0 15 | 1 17 | 21 22 | 1 21 | 4 1 | 0 41 | 15 35 | 0 17 | 21 28 | 1 37 | 16 26 | 16 0 | 9 51 | 7 6 | 1 58 |
| W22 | 23 29 | 14 41 | 5 1 | 19 52 | 3 13 | 13 24 | 3 10 | 16 32 | 0 38 | 0 13 | 1 17 | 21 23 | 1 21 | 4 2 | 0 41 | 15 36 | 0 17 | 21 28 | 1 37 | 16 23 | 15 59 | 9 49 | 7 7 | 1 58 |
| T 23 | 23 28 | 11 32 | 5 7 | 19 39 | 3 27 | 13 39 | 3 11 | 16 44 | 0 37 | 0 11 | 1 17 | 21 23 | 1 21 | 4 2 | 0 41 | 15 36 | 0 17 | 21 28 | 1 37 | 16 21 | 15 58 | 9 47 | 7 7 | 1 58 |
| F 24 | 23 27 | 7 57 | 5 1 | 19 28 | 3 41 | 13 53 | 3 12 | 16 57 | 0 37 | 0 9 | 1 18 | 21 24 | 1 21 | 4 3 | 0 41 | 15 36 | 0 17 | 21 28 | 1 37 | 16 19 | 15 57 | 9 45 | 7 8 | 1 58 |
| S 25 | 23 26 | 4 3 | 4 42 | 19 17 | 3 54 | 14 8 | 3 12 | 17 9 | 0 36 | 0 7 | 1 18 | 21 25 | 1 21 | 4 3 | 0 41 | 15 36 | 0 17 | 21 28 | 1 37 | 16 17 | 15 56 | 9 43 | 7 8 | 1 58 |
| S 26 | 23 24 | 0s 1 | 4 10 | 19 8 | 4 5 | 14 23 | 3 13 | 17 21 | 0 35 | 0 5 | 1 18 | 21 26 | 1 21 | 4 3 | 0 41 | 15 37 | 0 17 | 21 28 | 1 37 | 16 16 | 15 55 | 9 41 | 7 9 | 1 58 |
| M27 | 23 22 | 4 8 | 3 27 | 19 0 | 4 16 | 14 37 | 3 13 | 17 33 | 0 35 | 0 3 | 1 19 | 21 27 | 1 21 | 4 4 | 0 41 | 15 37 | 0 17 | 21 28 | 1 37 | 16 16 | 15 54 | 9 39 | 7 9 | 1 58 |
| T 28 | 23 19 | 8 9 | 2 34 | 18 52 | 4 25 | 14 52 | 3 13 | 17 45 | 0 34 | 0 2 | 1 19 | 21 27 | 1 21 | 4 4 | 0 41 | 15 38 | 0 17 | 21 28 | 1 36 | 16 16 | 15 53 | 9 37 | 7 10 | 1 58 |
| W29 | 23 16 | 11 55 | 1 33 | 18 47 | 4 33 | 15 7 | 3 13 | 17 56 | 0 33 | 0 0 | 1 19 | 21 28 | 1 21 | 4 4 | 0 41 | 15 38 | 0 17 | 21 27 | 1 36 | 16 16 | 15 52 | 9 35 | 7 10 | 1 58 |
| T 30 | 23n13 | 15s15 | 0s25 | 18n42 | 4s39 | 15n21 | 3s13 | 18n 8 | 0s33 | 0n 1 | 1s19 | 21n29 | 1s21 | 4n 5 | 0s41 | 15s38 | 0s17 | 21n27 | 1s36 | 16s17 | 15s51 | 9n33 | 7n11 | 1n58 |

Julian Day Number = 2334088.5, Delta T = 24.57 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'05, Lahiri = 19°22'05Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## JULY 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 37 23 | 9♋17'10 | 23♏19 | 5°R26 | 23♉39 | 24♉ 7 | 3♈11 | 16♊56 | 11♈55 | 18°R17 | 10♋36 | 14°R42 | 13♏15 | 21♌33 | 13♈34 | F 1 |
| S 2 | 18 41 20 | 10°14'21 | 7♐ 5 | 4♋53 | 24°38 | 24°49 | 3°15 | 17° 3 | 11°56 | 18♒16 | 10°37 | 14♏40 | 13°12 | 21°40 | 13°35 | S 2 |
| S 3 | 18 45 17 | 11°11'31 | 21°17 | 4°23 | 25°36 | 25°32 | 3°19 | 17°11 | 11°56 | 18°15 | 10°39 | 14°36 | 13° 8 | 21°47 | 13°36 | S 3 |
| M 4 | 18 49 13 | 12° 8'41 | 5♑53 | 3°55 | 26°35 | 26°14 | 3°23 | 17°18 | 11°57 | 18°13 | 10°41 | 14°30 | 13° 5 | 21°54 | 13°37 | M 4 |
| T 5 | 18 53 10 | 13° 5'52 | 20°47 | 3°31 | 27°35 | 26°56 | 3°27 | 17°25 | 11°58 | 18°12 | 10°42 | 14°22 | 13° 2 | 22° 0 | 13°37 | T 5 |
| W 6 | 18 57 6 | 14° 3'02 | 5♒49 | 3°11 | 28°34 | 27°38 | 3°30 | 17°33 | 11°58 | 18°11 | 10°44 | 14°13 | 12°59 | 22° 7 | 13°38 | W 6 |
| T 7 | 19 1 3 | 15° 0'13 | 20°51 | 2°56 | 29°35 | 28°20 | 3°33 | 17°40 | 11°59 | 18°10 | 10°45 | 14° 5 | 12°56 | 22°14 | 13°39 | T 7 |
| F 8 | 19 4 59 | 15°57'25 | 5♓43 | 2°45 | 0♊35 | 29° 2 | 3°37 | 17°47 | 11°59 | 18° 8 | 10°47 | 13°58 | 12°52 | 22°21 | 13°39 | F 8 |
| S 9 | 19 8 56 | 16°54'37 | 20°17 | 2°39 | 1°36 | 29°44 | 3°39 | 17°55 | 12° 0 | 18° 7 | 10°48 | 13°53 | 12°49 | 22°27 | 13°40 | S 9 |
| S 10 | 19 12 52 | 17°51'49 | 4♈31 | 2°D38 | 2°37 | 0♊26 | 3°42 | 18° 2 | 12° 0 | 18° 6 | 10°50 | 13°50 | 12°46 | 22°34 | 13°40 | S 10 |
| M11 | 19 16 49 | 18°49'02 | 18°22 | 2°43 | 3°38 | 1° 8 | 3°45 | 18° 9 | 12° 0 | 18° 4 | 10°51 | 13°D49 | 12°43 | 22°41 | 13°40 | M11 |
| T 12 | 19 20 46 | 19°46'16 | 1♉51 | 2°53 | 4°40 | 1°50 | 3°47 | 18°16 | 12° 1 | 18° 3 | 10°53 | 13°50 | 12°40 | 22°47 | 13°41 | T 12 |
| W13 | 19 24 42 | 20°43'31 | 15° 0 | 3° 8 | 5°42 | 2°31 | 3°49 | 18°23 | 12° 1 | 18° 1 | 10°54 | 13°R50 | 12°37 | 22°54 | 13°41 | W13 |
| T 14 | 19 28 39 | 21°40'46 | 27°53 | 3°29 | 6°44 | 3°13 | 3°51 | 18°30 | 12° 1 | 18° 0 | 10°56 | 13°49 | 12°33 | 23° 1 | 13°41 | T 14 |
| F 15 | 19 32 35 | 22°38'02 | 10♊31 | 3°56 | 7°46 | 3°54 | 3°53 | 18°37 | 12° 1 | 17°59 | 10°57 | 13°46 | 12°30 | 23° 8 | 13°41 | F 15 |
| S 16 | 19 36 32 | 23°35'19 | 22°58 | 4°28 | 8°49 | 4°36 | 3°55 | 18°44 | 12° 1 | 17°57 | 10°59 | 13°41 | 12°27 | 23°14 | 13°41 | S 16 |
| S 17 | 19 40 28 | 24°32'36 | 5♋16 | 5° 6 | 9°52 | 5°17 | 3°56 | 18°51 | 12°R 1 | 17°56 | 11° 0 | 13°32 | 12°24 | 23°21 | 13°R41 | S 17 |
| M18 | 19 44 25 | 25°29'54 | 17°25 | 5°50 | 10°55 | 5°58 | 3°57 | 18°58 | 12° 1 | 17°54 | 11° 2 | 13°22 | 12°21 | 23°28 | 13°41 | M18 |
| T 19 | 19 48 21 | 26°27'13 | 29°28 | 6°39 | 11°59 | 6°40 | 3°59 | 19° 4 | 12° 1 | 17°53 | 11° 3 | 13° 9 | 12°18 | 23°34 | 13°41 | T 19 |
| W20 | 19 52 18 | 27°24'33 | 11♌26 | 7°33 | 13° 3 | 7°21 | 3°59 | 19°11 | 12° 1 | 17°51 | 11° 5 | 12°56 | 12°14 | 23°41 | 13°41 | W20 |
| T 21 | 19 56 15 | 28°21'52 | 23°19 | 8°33 | 14° 7 | 8° 2 | 4° 0 | 19°18 | 12° 1 | 17°50 | 11° 6 | 12°43 | 12°11 | 23°48 | 13°41 | T 21 |
| F 22 | 20 0 11 | 29°19'13 | 5♍10 | 9°38 | 15°11 | 8°43 | 4° 0 | 19°25 | 12° 1 | 17°48 | 11° 8 | 12°32 | 12° 8 | 23°55 | 13°41 | F 22 |
| S 23 | 20 4 8 | 0♌16'34 | 17° 1 | 10°49 | 16°15 | 9°24 | 4° 1 | 19°31 | 12° 1 | 17°47 | 11° 9 | 12°23 | 12° 5 | 24° 1 | 13°40 | S 23 |
| S 24 | 20 8 4 | 1°13'56 | 28°54 | 12° 4 | 17°20 | 10° 4 | 4°R 1 | 19°38 | 12° 0 | 17°45 | 11°11 | 12°17 | 12° 2 | 24° 8 | 13°40 | S 24 |
| M25 | 20 12 1 | 2°11'18 | 10♎55 | 13°24 | 18°24 | 10°45 | 4° 1 | 19°44 | 12° 0 | 17°44 | 11°12 | 12°13 | 11°58 | 24°15 | 13°39 | M25 |
| T 26 | 20 15 57 | 3° 8'41 | 23° 6 | 14°50 | 19°29 | 11°26 | 4° 0 | 19°51 | 11°59 | 17°42 | 11°14 | 12°11 | 11°55 | 24°22 | 13°39 | T 26 |
| W27 | 20 19 54 | 4° 6'04 | 5♏34 | 16°19 | 20°35 | 12° 6 | 4° 0 | 19°57 | 11°59 | 17°40 | 11°15 | 12°11 | 11°52 | 24°28 | 13°38 | W27 |
| T 28 | 20 23 50 | 5° 3'28 | 18°23 | 17°54 | 21°40 | 12°47 | 3°59 | 20° 3 | 11°59 | 17°39 | 11°17 | 12°11 | 11°49 | 24°35 | 13°38 | T 28 |
| F 29 | 20 27 47 | 6° 0'53 | 1♐37 | 19°32 | 22°46 | 13°27 | 3°58 | 20°10 | 11°58 | 17°37 | 11°18 | 12°10 | 11°46 | 24°42 | 13°37 | F 29 |
| S 30 | 20 31 44 | 6°58'18 | 15°19 | 21°14 | 23°51 | 14° 7 | 3°57 | 20°16 | 11°57 | 17°36 | 11°19 | 12° 7 | 11°43 | 24°48 | 13°37 | S 30 |
| S 31 | 20 35 40 | 7♌55'44 | 29♐32 | 23♋ 0 | 24♊57 | 14♊47 | 3♈56 | 20♊22 | 11♈57 | 17♒34 | 11♋21 | 12♏ 2 | 11♏39 | 24♌55 | 13♈36 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n 9 | 17s53 | 0n46 | 18n39 | 4s43 | 15n36 | 3s13 | 18n19 | 0s32 | 0n 3 | 1s20 | 21n30 | 1s21 | 4n 5 | 0s41 | 15s39 | 0s17 | 21n27 | 1s36 | 16s17 | 15s50 | 9n31 | 7n11 | 1n58 |
| S 2 | 23 5 | 19 36 | 1 57 | 18 37 | 4 46 | 15 50 | 3 13 | 18 30 | 0 31 | 0 4 | 1 20 | 21 30 | 1 21 | 4 5 | 0 41 | 15 39 | 0 17 | 21 27 | 1 36 | 16 16 | 15 49 | 9 29 | 7 11 | 1 59 |
| S 3 | 23 0 | 20 9 | 3 3 | 18 37 | 4 48 | 16 5 | 3 12 | 18 41 | 0 31 | 0 6 | 1 20 | 21 31 | 1 21 | 4 6 | 0 41 | 15 39 | 0 17 | 21 27 | 1 36 | 16 15 | 15 49 | 9 27 | 7 12 | 1 59 |
| M 4 | 22 55 | 19 23 | 3 58 | 18 38 | 4 48 | 16 19 | 3 12 | 18 51 | 0 30 | 0 7 | 1 21 | 21 32 | 1 21 | 4 6 | 0 41 | 15 40 | 0 17 | 21 27 | 1 36 | 16 13 | 15 48 | 9 25 | 7 12 | 1 59 |
| T 5 | 22 50 | 17 16 | 4 39 | 18 40 | 4 46 | 16 33 | 3 11 | 19 2 | 0 29 | 0 8 | 1 21 | 21 33 | 1 21 | 4 6 | 0 41 | 15 40 | 0 17 | 21 27 | 1 36 | 16 10 | 15 47 | 9 23 | 7 12 | 1 59 |
| W 6 | 22 44 | 13 59 | 5 1 | 18 44 | 4 43 | 16 47 | 3 10 | 19 12 | 0 29 | 0 9 | 1 21 | 21 33 | 1 21 | 4 6 | 0 41 | 15 41 | 0 17 | 21 27 | 1 36 | 16 8 | 15 46 | 9 21 | 7 13 | 1 59 |
| T 7 | 22 38 | 9 48 | 5 2 | 18 49 | 4 38 | 17 1 | 3 9 | 19 22 | 0 28 | 0 10 | 1 21 | 21 34 | 1 21 | 4 6 | 0 42 | 15 41 | 0 17 | 21 27 | 1 36 | 16 5 | 15 45 | 9 19 | 7 13 | 1 59 |
| F 8 | 22 31 | 5 3 | 4 43 | 18 55 | 4 32 | 17 15 | 3 8 | 19 32 | 0 27 | 0 11 | 1 22 | 21 35 | 1 21 | 4 7 | 0 42 | 15 41 | 0 17 | 21 27 | 1 36 | 16 3 | 15 44 | 9 17 | 7 13 | 1 59 |
| S 9 | 22 24 | 0 6 | 4 5 | 19 2 | 4 25 | 17 28 | 3 7 | 19 42 | 0 26 | 0 12 | 1 22 | 21 35 | 1 21 | 4 7 | 0 42 | 15 42 | 0 17 | 21 27 | 1 36 | 16 2 | 15 43 | 9 15 | 7 13 | 1 59 |
| S 10 | 22 17 | 4n45 | 3 13 | 19 11 | 4 16 | 17 41 | 3 5 | 19 51 | 0 26 | 0 13 | 1 22 | 21 36 | 1 21 | 4 7 | 0 42 | 15 42 | 0 17 | 21 27 | 1 36 | 16 1 | 15 42 | 9 13 | 7 14 | 1 59 |
| M11 | 22 9 | 9 14 | 2 11 | 19 20 | 4 7 | 17 54 | 3 4 | 20 1 | 0 25 | 0 14 | 1 23 | 21 37 | 1 21 | 4 7 | 0 42 | 15 43 | 0 17 | 21 27 | 1 36 | 16 1 | 15 41 | 9 11 | 7 14 | 1 59 |
| T 12 | 22 1 | 13 8 | 1 3 | 19 30 | 3 57 | 18 7 | 3 2 | 20 10 | 0 24 | 0 14 | 1 23 | 21 37 | 1 21 | 4 7 | 0 42 | 15 43 | 0 17 | 21 27 | 1 36 | 16 1 | 15 40 | 9 9 | 7 14 | 1 59 |
| W13 | 21 53 | 16 16 | 0s 6 | 19 41 | 3 45 | 18 20 | 3 0 | 20 19 | 0 23 | 0 15 | 1 23 | 21 38 | 1 21 | 4 7 | 0 42 | 15 44 | 0 17 | 21 27 | 1 36 | 16 1 | 15 39 | 9 7 | 7 14 | 1 59 |
| T 14 | 21 44 | 18 31 | 1 14 | 19 53 | 3 33 | 18 32 | 2 59 | 20 28 | 0 23 | 0 16 | 1 24 | 21 38 | 1 21 | 4 7 | 0 42 | 15 44 | 0 17 | 21 26 | 1 36 | 16 1 | 15 38 | 9 5 | 7 14 | 1 59 |
| F 15 | 21 35 | 19 48 | 2 17 | 20 5 | 3 21 | 18 44 | 2 57 | 20 36 | 0 22 | 0 16 | 1 24 | 21 39 | 1 21 | 4 7 | 0 42 | 15 45 | 0 17 | 21 26 | 1 36 | 16 0 | 15 37 | 9 3 | 7 14 | 1 59 |
| S 16 | 21 25 | 20 6 | 3 12 | 20 17 | 3 8 | 18 56 | 2 55 | 20 45 | 0 21 | 0 16 | 1 24 | 21 40 | 1 21 | 4 7 | 0 42 | 15 45 | 0 17 | 21 26 | 1 35 | 15 58 | 15 36 | 9 1 | 7 14 | 1 59 |
| S 17 | 21 15 | 19 25 | 3 57 | 20 29 | 2 54 | 19 7 | 2 53 | 20 53 | 0 20 | 0 17 | 1 24 | 21 40 | 1 21 | 4 7 | 0 42 | 15 45 | 0 17 | 21 26 | 1 35 | 15 56 | 15 35 | 8 59 | 7 14 | 1 59 |
| M18 | 21 5 | 17 52 | 4 31 | 20 41 | 2 40 | 19 18 | 2 51 | 21 1 | 0 20 | 0 17 | 1 25 | 21 41 | 1 21 | 4 7 | 0 42 | 15 46 | 0 17 | 21 26 | 1 35 | 15 53 | 15 34 | 8 57 | 7 14 | 1 59 |
| T 19 | 20 54 | 15 32 | 4 52 | 20 53 | 2 25 | 19 29 | 2 48 | 21 9 | 0 19 | 0 17 | 1 25 | 21 41 | 1 21 | 4 7 | 0 42 | 15 46 | 0 17 | 21 26 | 1 35 | 15 49 | 15 33 | 8 55 | 7 14 | 1 59 |
| W20 | 20 43 | 12 34 | 5 1 | 21 5 | 2 11 | 19 39 | 2 46 | 21 16 | 0 18 | 0 17 | 1 25 | 21 42 | 1 21 | 4 7 | 0 42 | 15 47 | 0 17 | 21 26 | 1 35 | 15 45 | 15 32 | 8 53 | 7 14 | 1 59 |
| T 21 | 20 31 | 9 7 | 4 56 | 21 16 | 1 56 | 19 49 | 2 44 | 21 24 | 0 17 | 0 17 | 1 26 | 21 42 | 1 21 | 4 7 | 0 42 | 15 47 | 0 17 | 21 26 | 1 35 | 15 41 | 15 31 | 8 51 | 7 14 | 1 59 |
| F 22 | 20 20 | 5 19 | 4 38 | 21 27 | 1 41 | 19 59 | 2 41 | 21 31 | 0 17 | 0 17 | 1 26 | 21 43 | 1 21 | 4 7 | 0 42 | 15 48 | 0 17 | 21 26 | 1 35 | 15 38 | 15 30 | 8 49 | 7 14 | 1 59 |
| S 23 | 20 8 | 1 19 | 4 8 | 21 36 | 1 27 | 20 8 | 2 38 | 21 38 | 0 16 | 0 17 | 1 26 | 21 43 | 1 21 | 4 7 | 0 42 | 15 48 | 0 17 | 21 26 | 1 35 | 15 35 | 15 29 | 8 47 | 7 14 | 1 59 |
| S 24 | 19 55 | 2s44 | 3 28 | 21 44 | 1 12 | 20 17 | 2 36 | 21 45 | 0 15 | 0 16 | 1 27 | 21 44 | 1 21 | 4 6 | 0 42 | 15 49 | 0 17 | 21 26 | 1 35 | 15 33 | 15 28 | 8 45 | 7 14 | 1 59 |
| M25 | 19 42 | 6 44 | 2 37 | 21 51 | 0 57 | 20 26 | 2 33 | 21 52 | 0 14 | 0 16 | 1 27 | 21 44 | 1 21 | 4 6 | 0 42 | 15 49 | 0 17 | 21 26 | 1 35 | 15 32 | 15 27 | 8 43 | 7 14 | 1 59 |
| T 26 | 19 29 | 10 32 | 1 39 | 21 56 | 0 43 | 20 34 | 2 30 | 21 58 | 0 13 | 0 16 | 1 27 | 21 45 | 1 21 | 4 6 | 0 42 | 15 50 | 0 17 | 21 26 | 1 35 | 15 31 | 15 26 | 8 41 | 7 14 | 1 59 |
| W27 | 19 16 | 13 57 | 0 35 | 22 0 | 0 29 | 20 42 | 2 27 | 22 4 | 0 12 | 0 15 | 1 27 | 21 45 | 1 21 | 4 6 | 0 42 | 15 50 | 0 17 | 21 25 | 1 35 | 15 31 | 15 25 | 8 39 | 7 14 | 1 59 |
| T 28 | 19 2 | 16 48 | 0n33 | 22 1 | 0 16 | 20 49 | 2 24 | 22 11 | 0 12 | 0 15 | 1 28 | 21 46 | 1 21 | 4 6 | 0 42 | 15 51 | 0 17 | 21 25 | 1 35 | 15 31 | 15 24 | 8 37 | 7 13 | 1 59 |
| F 29 | 18 48 | 18 52 | 1 41 | 22 1 | 0 3 | 20 56 | 2 21 | 22 16 | 0 11 | 0 14 | 1 28 | 21 46 | 1 21 | 4 5 | 0 42 | 15 51 | 0 17 | 21 25 | 1 35 | 15 31 | 15 23 | 8 35 | 7 13 | 2 0 |
| S 30 | 18 34 | 19 56 | 2 46 | 21 58 | 0n10 | 21 2 | 2 18 | 22 22 | 0 10 | 0 13 | 1 28 | 21 47 | 1 21 | 4 5 | 0 42 | 15 52 | 0 17 | 21 25 | 1 35 | 15 30 | 15 22 | 8 33 | 7 13 | 2 0 |
| S 31 | 18n19 | 19s46 | 3n42 | 21n52 | 0n22 | 21n 8 | 2s15 | 22n28 | 0s 9 | 0n12 | 1s29 | 21n47 | 1s21 | 4n 5 | 0s42 | 15s52 | 0s17 | 21n25 | 1s35 | 15s28 | 15s21 | 8n31 | 7n13 | 2n 0 |

Julian Day Number = 2334118.5, Delta T = 24.53 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'09, Lahiri = 19°22'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## AUGUST 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 39 37 | 8♌53'11 | 14♉12 | 24♋49 | 26♊ 3 | 15♊28 | 3°R54 | 20♊28 | 11°R56 | 17°R33 | 11♋22 | 11°R54 | 11♏36 | 25♌ 2 | 13°R35 | M 1 |
| T 2 | 20 43 33 | 9°50'39 | 29°15 | 26°41 | 27°10 | 16° 8 | 3♈52 | 20°34 | 11♈55 | 17♒31 | 11°24 | 11♏44 | 11°33 | 25° 9 | 13♈34 | T 2 |
| W 3 | 20 47 30 | 10°48'08 | 14♒30 | 28°36 | 28°16 | 16°48 | 3°50 | 20°40 | 11°55 | 17°29 | 11°25 | 11°33 | 11°30 | 25°15 | 13°33 | W 3 |
| T 4 | 20 51 26 | 11°45'38 | 29°48 | 0♌32 | 29°23 | 17°27 | 3°48 | 20°46 | 11°54 | 17°28 | 11°26 | 11°23 | 11°27 | 25°22 | 13°32 | T 4 |
| F 5 | 20 55 23 | 12°43'09 | 14♓57 | 2°31 | 0♋29 | 18° 7 | 3°46 | 20°52 | 11°53 | 17°26 | 11°28 | 11°14 | 11°23 | 25°29 | 13°31 | F 5 |
| S 6 | 20 59 19 | 13°40'41 | 29°47 | 4°31 | 1°36 | 18°47 | 3°44 | 20°58 | 11°52 | 17°24 | 11°29 | 11° 7 | 11°20 | 25°35 | 13°30 | S 6 |
| S 7 | 21 3 16 | 14°38'15 | 14♈12 | 6°33 | 2°44 | 19°26 | 3°41 | 21° 3 | 11°51 | 17°23 | 11°30 | 11° 3 | 11°17 | 25°42 | 13°29 | S 7 |
| M 8 | 21 7 13 | 15°35'50 | 28°11 | 8°35 | 3°51 | 20° 6 | 3°38 | 21° 9 | 11°50 | 17°21 | 11°32 | 11° 2 | 11°14 | 25°49 | 13°28 | M 8 |
| T 9 | 21 11 9 | 16°33'27 | 11♉42 | 10°37 | 4°58 | 20°45 | 3°35 | 21°15 | 11°49 | 17°20 | 11°33 | 11° 1 | 11°11 | 25°56 | 13°27 | T 9 |
| W10 | 21 15 6 | 17°31'05 | 24°49 | 12°40 | 6° 6 | 21°25 | 3°32 | 21°20 | 11°48 | 17°18 | 11°34 | 11° 1 | 11° 8 | 26° 2 | 13°26 | W10 |
| T 11 | 21 19 2 | 18°28'45 | 7♊36 | 14°42 | 7°14 | 22° 4 | 3°28 | 21°26 | 11°47 | 17°16 | 11°36 | 11° 0 | 11° 4 | 26° 9 | 13°25 | T 11 |
| F 12 | 21 22 59 | 19°26'27 | 20° 6 | 16°44 | 8°22 | 22°43 | 3°25 | 21°31 | 11°46 | 17°15 | 11°37 | 10°57 | 11° 1 | 26°16 | 13°23 | F 12 |
| S 13 | 21 26 55 | 20°24'10 | 2♋23 | 18°46 | 9°30 | 23°22 | 3°21 | 21°36 | 11°44 | 17°13 | 11°38 | 10°51 | 10°58 | 26°22 | 13°22 | S 13 |
| S 14 | 21 30 52 | 21°21'55 | 14°30 | 20°47 | 10°38 | 24° 1 | 3°17 | 21°42 | 11°43 | 17°11 | 11°39 | 10°43 | 10°55 | 26°29 | 13°20 | S 14 |
| M15 | 21 34 48 | 22°19'41 | 26°31 | 22°47 | 11°46 | 24°40 | 3°13 | 21°47 | 11°42 | 17°10 | 11°41 | 10°32 | 10°52 | 26°36 | 13°19 | M15 |
| T 16 | 21 38 45 | 23°17'28 | 8♌27 | 24°46 | 12°55 | 25°19 | 3° 8 | 21°52 | 11°40 | 17° 8 | 11°42 | 10°19 | 10°49 | 26°43 | 13°17 | T 16 |
| W17 | 21 42 42 | 24°15'18 | 20°20 | 26°44 | 14° 3 | 25°58 | 3° 4 | 21°57 | 11°39 | 17° 6 | 11°43 | 10° 5 | 10°45 | 26°49 | 13°16 | W17 |
| T 18 | 21 46 38 | 25°13'08 | 2♍11 | 28°41 | 15°12 | 26°36 | 2°59 | 22° 2 | 11°38 | 17° 5 | 11°44 | 9°52 | 10°42 | 26°56 | 13°14 | T 18 |
| F 19 | 21 50 35 | 26°11'00 | 14° 3 | 0♍36 | 16°21 | 27°15 | 2°54 | 22° 7 | 11°36 | 17° 3 | 11°45 | 9°40 | 10°39 | 27° 3 | 13°12 | F 19 |
| S 20 | 21 54 31 | 27° 8'53 | 25°56 | 2°31 | 17°30 | 27°53 | 2°49 | 22°11 | 11°35 | 17° 2 | 11°47 | 9°31 | 10°36 | 27°10 | 13°11 | S 20 |
| S 21 | 21 58 28 | 28° 6'48 | 7♎53 | 4°24 | 18°39 | 28°31 | 2°44 | 22°16 | 11°33 | 17° 0 | 11°48 | 9°24 | 10°33 | 27°16 | 13° 9 | S 21 |
| M22 | 22 2 24 | 29° 4'44 | 19°56 | 6°16 | 19°48 | 29° 9 | 2°39 | 22°21 | 11°32 | 16°58 | 11°49 | 9°20 | 10°29 | 27°23 | 13° 7 | M22 |
| T 23 | 22 6 21 | 0♍ 2'42 | 2♏10 | 8° 6 | 20°58 | 29°47 | 2°33 | 22°25 | 11°30 | 16°57 | 11°50 | 9°18 | 10°26 | 27°30 | 13° 5 | T 23 |
| W24 | 22 10 17 | 1° 0'41 | 14°37 | 9°56 | 22° 7 | 0♋25 | 2°27 | 22°30 | 11°28 | 16°55 | 11°51 | 9°D18 | 10°23 | 27°36 | 13° 4 | W24 |
| T 25 | 22 14 14 | 1°58'41 | 27°24 | 11°44 | 23°17 | 1° 3 | 2°22 | 22°34 | 11°27 | 16°54 | 11°52 | 9°R18 | 10°20 | 27°43 | 13° 2 | T 25 |
| F 26 | 22 18 10 | 2°56'43 | 10♐33 | 13°30 | 24°26 | 1°41 | 2°16 | 22°38 | 11°25 | 16°52 | 11°53 | 9°18 | 10°17 | 27°50 | 13° 0 | F 26 |
| S 27 | 22 22 7 | 3°54'46 | 24° 8 | 15°16 | 25°36 | 2°19 | 2°10 | 22°42 | 11°23 | 16°51 | 11°54 | 9°17 | 10°14 | 27°57 | 12°58 | S 27 |
| S 28 | 22 26 4 | 4°52'50 | 8♑12 | 17° 0 | 26°46 | 2°56 | 2° 3 | 22°46 | 11°21 | 16°49 | 11°55 | 9°13 | 10°10 | 28° 3 | 12°56 | S 28 |
| M29 | 22 30 0 | 5°50'56 | 22°44 | 18°43 | 27°56 | 3°34 | 1°57 | 22°50 | 11°20 | 16°47 | 11°56 | 9° 7 | 10° 7 | 28°10 | 12°54 | M29 |
| T 30 | 22 33 57 | 6°49'04 | 7♒39 | 20°25 | 29° 6 | 4°11 | 1°51 | 22°54 | 11°18 | 16°46 | 11°57 | 8°58 | 10° 4 | 28°17 | 12°51 | T 30 |
| W31 | 22 37 53 | 7♍47'12 | 22♒52 | 22♍ 5 | 0♌17 | 4♋48 | 1♈44 | 22♊58 | 11♈16 | 16♒44 | 11♋58 | 8♏49 | 10♏ 1 | 28♌23 | 12♈49 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18n 4 | 18s18 | 4n26 | 21n44 | 0n33 | 21n13 | 2s12 | 22n33 | 0s 8 | 0n12 | 1s29 | 21n47 | 1s21 | 4n 5 | 0s42 | 15s53 | 0s17 | 21n25 | 1s35 | 15s26 | 15s20 | 8n29 | 7n12 | 2n 0 |
| T 2 | 17 49 | 15 33 | 4 53 | 21 34 | 0 43 | 21 18 | 2 9 | 22 38 | 0 7 | 0 11 | 1 29 | 21 48 | 1 21 | 4 4 | 0 42 | 15 53 | 0 17 | 21 25 | 1 35 | 15 23 | 15 19 | 8 27 | 7 12 | 2 0 |
| W 3 | 17 33 | 11 43 | 5 0 | 21 21 | 0 53 | 21 22 | 2 6 | 22 43 | 0 7 | 0 10 | 1 29 | 21 48 | 1 21 | 4 4 | 0 42 | 15 54 | 0 18 | 21 25 | 1 35 | 15 19 | 15 18 | 8 25 | 7 12 | 2 0 |
| T 4 | 17 17 | 7 6 | 4 45 | 21 5 | 1 2 | 21 26 | 2 2 | 22 47 | 0 6 | 0 9 | 1 30 | 21 49 | 1 21 | 4 4 | 0 42 | 15 54 | 0 18 | 21 25 | 1 35 | 15 16 | 15 17 | 8 23 | 7 11 | 2 0 |
| F 5 | 17 1 | 2 5 | 4 10 | 20 46 | 1 10 | 21 30 | 1 59 | 22 52 | 0 5 | 0 7 | 1 30 | 21 49 | 1 21 | 4 3 | 0 42 | 15 55 | 0 18 | 21 25 | 1 35 | 15 13 | 15 16 | 8 21 | 7 11 | 2 0 |
| S 6 | 16 45 | 2n58 | 3 19 | 20 25 | 1 18 | 21 32 | 1 56 | 22 56 | 0 4 | 0 6 | 1 30 | 21 49 | 1 21 | 4 3 | 0 42 | 15 55 | 0 18 | 21 25 | 1 35 | 15 11 | 15 15 | 8 19 | 7 11 | 2 0 |
| S 7 | 16 28 | 7 43 | 2 17 | 20 1 | 1 24 | 21 35 | 1 52 | 23 0 | 0 3 | 0 5 | 1 31 | 21 50 | 1 21 | 4 3 | 0 42 | 15 56 | 0 18 | 21 25 | 1 34 | 15 10 | 15 14 | 8 17 | 7 10 | 2 0 |
| M 8 | 16 11 | 11 54 | 1 7 | 19 35 | 1 30 | 21 37 | 1 49 | 23 4 | 0 2 | 0 3 | 1 31 | 21 50 | 1 21 | 4 2 | 0 42 | 15 56 | 0 18 | 21 25 | 1 34 | 15 10 | 15 13 | 8 15 | 7 10 | 2 0 |
| T 9 | 15 54 | 15 19 | 0s 4 | 19 7 | 1 34 | 21 38 | 1 45 | 23 8 | 0 1 | 0 2 | 1 31 | 21 50 | 1 21 | 4 2 | 0 42 | 15 57 | 0 18 | 21 25 | 1 34 | 15 10 | 15 12 | 8 13 | 7 9 | 2 0 |
| W10 | 15 37 | 17 50 | 1 12 | 18 36 | 1 38 | 21 39 | 1 42 | 23 12 | 0 1 | 0 0 | 1 31 | 21 51 | 1 21 | 4 1 | 0 43 | 15 57 | 0 18 | 21 24 | 1 34 | 15 10 | 15 11 | 8 11 | 7 9 | 2 0 |
| T 11 | 15 19 | 19 23 | 2 16 | 18 4 | 1 41 | 21 39 | 1 38 | 23 15 | 0n 0 | 0s 1 | 1 32 | 21 51 | 1 21 | 4 1 | 0 43 | 15 58 | 0 18 | 21 24 | 1 34 | 15 9 | 15 11 | 8 9 | 7 8 | 2 0 |
| F 12 | 15 1 | 19 56 | 3 11 | 17 29 | 1 44 | 21 38 | 1 35 | 23 18 | 0 1 | 0 3 | 1 32 | 21 51 | 1 21 | 4 0 | 0 43 | 15 58 | 0 18 | 21 24 | 1 34 | 15 8 | 15 10 | 8 7 | 7 8 | 2 0 |
| S 13 | 14 43 | 19 31 | 3 56 | 16 53 | 1 45 | 21 37 | 1 31 | 23 21 | 0 2 | 0 5 | 1 32 | 21 52 | 1 21 | 4 0 | 0 43 | 15 59 | 0 18 | 21 24 | 1 34 | 15 6 | 15 9 | 8 5 | 7 7 | 2 0 |
| S 14 | 14 24 | 18 13 | 4 30 | 16 16 | 1 46 | 21 36 | 1 28 | 23 24 | 0 3 | 0 6 | 1 32 | 21 52 | 1 21 | 3 59 | 0 43 | 15 59 | 0 18 | 21 24 | 1 34 | 15 4 | 15 8 | 8 2 | 7 7 | 2 0 |
| M15 | 14 6 | 16 7 | 4 52 | 15 37 | 1 46 | 21 34 | 1 24 | 23 26 | 0 4 | 0 8 | 1 33 | 21 52 | 1 21 | 3 59 | 0 43 | 16 0 | 0 18 | 21 24 | 1 34 | 15 0 | 15 7 | 8 0 | 7 6 | 2 0 |
| T 16 | 13 47 | 13 21 | 5 0 | 14 57 | 1 45 | 21 31 | 1 20 | 23 29 | 0 5 | 0 10 | 1 33 | 21 52 | 1 22 | 3 58 | 0 43 | 16 0 | 0 18 | 21 24 | 1 34 | 14 56 | 15 6 | 7 58 | 7 6 | 2 0 |
| W17 | 13 28 | 10 3 | 4 56 | 14 15 | 1 44 | 21 28 | 1 17 | 23 31 | 0 6 | 0 12 | 1 33 | 21 53 | 1 22 | 3 58 | 0 43 | 16 1 | 0 18 | 21 24 | 1 34 | 14 52 | 15 5 | 7 56 | 7 5 | 2 0 |
| T 18 | 13 8 | 6 23 | 4 38 | 13 33 | 1 42 | 21 24 | 1 13 | 23 33 | 0 7 | 0 14 | 1 33 | 21 53 | 1 22 | 3 57 | 0 43 | 16 1 | 0 18 | 21 24 | 1 34 | 14 48 | 15 4 | 7 54 | 7 4 | 2 0 |
| F 19 | 12 49 | 2 27 | 4 9 | 12 50 | 1 40 | 21 20 | 1 9 | 23 35 | 0 8 | 0 17 | 1 34 | 21 53 | 1 22 | 3 56 | 0 43 | 16 2 | 0 18 | 21 24 | 1 34 | 14 44 | 15 3 | 7 52 | 7 4 | 2 0 |
| S 20 | 12 29 | 1s34 | 3 28 | 12 7 | 1 37 | 21 15 | 1 6 | 23 36 | 0 9 | 0 19 | 1 34 | 21 53 | 1 22 | 3 56 | 0 43 | 16 2 | 0 18 | 21 24 | 1 34 | 14 41 | 15 2 | 7 50 | 7 3 | 2 0 |
| S 21 | 12 9 | 5 33 | 2 39 | 11 22 | 1 34 | 21 9 | 1 2 | 23 38 | 0 10 | 0 21 | 1 34 | 21 54 | 1 22 | 3 55 | 0 43 | 16 3 | 0 18 | 21 24 | 1 34 | 14 39 | 15 1 | 7 48 | 7 2 | 2 0 |
| M22 | 11 49 | 9 22 | 1 41 | 10 38 | 1 30 | 21 3 | 0 58 | 23 39 | 0 11 | 0 23 | 1 34 | 21 54 | 1 22 | 3 55 | 0 43 | 16 3 | 0 18 | 21 24 | 1 34 | 14 38 | 15 0 | 7 46 | 7 2 | 2 0 |
| T 23 | 11 28 | 12 50 | 0 38 | 9 52 | 1 26 | 20 57 | 0 55 | 23 40 | 0 12 | 0 26 | 1 35 | 21 54 | 1 22 | 3 54 | 0 43 | 16 4 | 0 18 | 21 24 | 1 34 | 14 37 | 14 59 | 7 44 | 7 1 | 2 0 |
| W24 | 11 8 | 15 48 | 0n28 | 9 7 | 1 22 | 20 49 | 0 51 | 23 41 | 0 12 | 0 28 | 1 35 | 21 54 | 1 22 | 3 53 | 0 43 | 16 4 | 0 18 | 21 23 | 1 34 | 14 37 | 14 58 | 7 42 | 7 0 | 2 0 |
| T 25 | 10 47 | 18 4 | 1 35 | 8 21 | 1 17 | 20 41 | 0 47 | 23 42 | 0 13 | 0 31 | 1 35 | 21 54 | 1 22 | 3 53 | 0 43 | 16 5 | 0 18 | 21 23 | 1 34 | 14 37 | 14 57 | 7 40 | 7 0 | 2 0 |
| F 26 | 10 26 | 19 27 | 2 38 | 7 36 | 1 11 | 20 33 | 0 44 | 23 43 | 0 14 | 0 33 | 1 35 | 21 55 | 1 22 | 3 52 | 0 43 | 16 5 | 0 18 | 21 23 | 1 34 | 14 37 | 14 56 | 7 38 | 6 59 | 2 0 |
| S 27 | 10 5 | 19 46 | 3 35 | 6 50 | 1 6 | 20 24 | 0 40 | 23 43 | 0 15 | 0 36 | 1 35 | 21 55 | 1 22 | 3 51 | 0 43 | 16 6 | 0 18 | 21 23 | 1 34 | 14 37 | 14 55 | 7 36 | 6 58 | 2 0 |
| S 28 | 9 44 | 18 53 | 4 21 | 6 4 | 1 0 | 20 15 | 0 36 | 23 43 | 0 16 | 0 39 | 1 36 | 21 55 | 1 22 | 3 51 | 0 43 | 16 6 | 0 18 | 21 23 | 1 34 | 14 35 | 14 54 | 7 34 | 6 57 | 2 0 |
| M29 | 9 23 | 16 46 | 4 52 | 5 18 | 0 54 | 20 4 | 0 33 | 23 43 | 0 17 | 0 41 | 1 36 | 21 55 | 1 22 | 3 50 | 0 43 | 16 7 | 0 18 | 21 23 | 1 34 | 14 33 | 14 53 | 7 32 | 6 56 | 2 0 |
| T 30 | 9 1 | 13 29 | 5 4 | 4 32 | 0 47 | 19 54 | 0 29 | 23 43 | 0 18 | 0 44 | 1 36 | 21 55 | 1 22 | 3 49 | 0 43 | 16 7 | 0 18 | 21 23 | 1 34 | 14 31 | 14 52 | 7 30 | 6 56 | 2 0 |
| W31 | 8n40 | 9s16 | 4n55 | 3n46 | 0n41 | 19n43 | 0s26 | 23n43 | 0n19 | 0s47 | 1s36 | 21n55 | 1s22 | 3n48 | 0s43 | 16s 8 | 0s18 | 21n23 | 1s34 | 14s28 | 14s51 | 7n28 | 6n55 | 2n 0 |

Julian Day Number = 2334149.5, Delta T = 24.48 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'13, Lahiri = 19°22'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## SEPTEMBER 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 41 50 | 8♍45'23 | 8♓10 | 23♍44 | 1♌27 | 5♋25 | 1°R37 | 23♊ 2 | 11°R14 | 16°R43 | 11♋59 | 8°R41 | 9♏58 | 28♌30 | 12°R47 | T 1 |
| F 2 | 22 45 46 | 9°43'35 | 23°24 | 25°22 | 2°37 | 6° 2 | 1♈30 | 23° 5 | 11♈12 | 16♒42 | 12° 0 | 8♏33 | 9°55 | 28°37 | 12♈45 | F 2 |
| S 3 | 22 49 43 | 10°41'49 | 8♈23 | 26°59 | 3°48 | 6°39 | 1°23 | 23° 9 | 11°10 | 16°40 | 12° 1 | 8°28 | 9°51 | 28°44 | 12°43 | S 3 |
| S 4 | 22 53 39 | 11°40'05 | 22°58 | 28°35 | 4°59 | 7°16 | 1°16 | 23°12 | 11° 8 | 16°39 | 12° 2 | 8°24 | 9°48 | 28°50 | 12°40 | S 4 |
| M 5 | 22 57 36 | 12°38'23 | 7♉ 6 | 0♎10 | 6°10 | 7°53 | 1° 9 | 23°16 | 11° 6 | 16°37 | 12° 3 | 8°D23 | 9°45 | 28°57 | 12°38 | M 5 |
| T 6 | 23 1 33 | 13°36'43 | 20°45 | 1°43 | 7°20 | 8°29 | 1° 2 | 23°19 | 11° 4 | 16°36 | 12° 3 | 8°24 | 9°42 | 29° 4 | 12°36 | T 6 |
| W 7 | 23 5 29 | 14°35'05 | 3♊58 | 3°16 | 8°31 | 9° 6 | 0°55 | 23°22 | 11° 2 | 16°34 | 12° 4 | 8°25 | 9°39 | 29°10 | 12°33 | W 7 |
| T 8 | 23 9 26 | 15°33'30 | 16°46 | 4°47 | 9°43 | 9°42 | 0°47 | 23°25 | 11° 0 | 16°33 | 12° 5 | 8°R25 | 9°35 | 29°17 | 12°31 | T 8 |
| F 9 | 23 13 22 | 16°31'56 | 29°15 | 6°17 | 10°54 | 10°18 | 0°40 | 23°28 | 10°58 | 16°32 | 12° 6 | 8°24 | 9°32 | 29°24 | 12°28 | F 9 |
| S 10 | 23 17 19 | 17°30'25 | 11♋29 | 7°46 | 12° 5 | 10°54 | 0°32 | 23°31 | 10°56 | 16°30 | 12° 7 | 8°21 | 9°29 | 29°31 | 12°26 | S 10 |
| S 11 | 23 21 15 | 18°28'56 | 23°32 | 9°14 | 13°17 | 11°30 | 0°24 | 23°34 | 10°53 | 16°29 | 12° 7 | 8°16 | 9°26 | 29°37 | 12°23 | S 11 |
| M12 | 23 25 12 | 19°27'29 | 5♌28 | 10°40 | 14°28 | 12° 6 | 0°17 | 23°37 | 10°51 | 16°28 | 12° 8 | 8° 9 | 9°23 | 29°44 | 12°21 | M12 |
| T 13 | 23 29 8 | 20°26'04 | 17°21 | 12° 6 | 15°40 | 12°41 | 0° 9 | 23°39 | 10°49 | 16°26 | 12° 9 | 8° 1 | 9°20 | 29°51 | 12°18 | T 13 |
| W14 | 23 33 5 | 21°24'41 | 29°12 | 13°30 | 16°51 | 13°17 | 0° 1 | 23°42 | 10°47 | 16°25 | 12°10 | 7°52 | 9°16 | 29°57 | 12°16 | W14 |
| T 15 | 23 37 2 | 22°23'20 | 11♍ 4 | 14°53 | 18° 3 | 13°52 | 29♓53 | 23°44 | 10°44 | 16°24 | 12°10 | 7°43 | 9°13 | 0♍ 4 | 12°13 | T 15 |
| F 16 | 23 40 58 | 23°22'02 | 22°59 | 16°15 | 19°15 | 14°28 | 29°45 | 23°46 | 10°42 | 16°23 | 12°11 | 7°35 | 9°10 | 0°11 | 12°11 | F 16 |
| S 17 | 23 44 55 | 24°20'45 | 4♎59 | 17°36 | 20°27 | 15° 3 | 29°37 | 23°48 | 10°40 | 16°21 | 12°11 | 7°29 | 9° 7 | 0°18 | 12° 8 | S 17 |
| S 18 | 23 48 51 | 25°19'30 | 17° 4 | 18°55 | 21°39 | 15°38 | 29°29 | 23°50 | 10°38 | 16°20 | 12°12 | 7°25 | 9° 4 | 0°24 | 12° 5 | S 18 |
| M19 | 23 52 48 | 26°18'17 | 29°17 | 20°13 | 22°51 | 16°13 | 29°21 | 23°52 | 10°35 | 16°19 | 12°13 | 7°23 | 9° 0 | 0°31 | 12° 3 | M19 |
| T 20 | 23 56 44 | 27°17'06 | 11♏40 | 21°30 | 24° 3 | 16°47 | 29°13 | 23°54 | 10°33 | 16°18 | 12°13 | 7°D22 | 8°57 | 0°38 | 12° 0 | T 20 |
| W21 | 0 0 41 | 28°15'56 | 24°16 | 22°45 | 25°16 | 17°22 | 29° 5 | 23°56 | 10°31 | 16°17 | 12°14 | 7°23 | 8°54 | 0°44 | 11°57 | W21 |
| T 22 | 0 4 37 | 29°14'49 | 7♐ 7 | 23°58 | 26°28 | 17°56 | 28°57 | 23°57 | 10°28 | 16°16 | 12°14 | 7°25 | 8°51 | 0°51 | 11°54 | T 22 |
| F 23 | 0 8 34 | 0♎13'43 | 20°17 | 25°10 | 27°40 | 18°31 | 28°49 | 23°59 | 10°26 | 16°15 | 12°15 | 7°26 | 8°48 | 0°58 | 11°52 | F 23 |
| S 24 | 0 12 30 | 1°12'39 | 3♑48 | 26°20 | 28°53 | 19° 5 | 28°41 | 24° 0 | 10°23 | 16°13 | 12°15 | 7°R27 | 8°45 | 1° 5 | 11°49 | S 24 |
| S 25 | 0 16 27 | 2°11'37 | 17°42 | 27°29 | 0♍ 6 | 19°39 | 28°33 | 24° 2 | 10°21 | 16°12 | 12°16 | 7°26 | 8°41 | 1°11 | 11°46 | S 25 |
| M26 | 0 20 24 | 3°10'36 | 1♒59 | 28°35 | 1°18 | 20°13 | 28°25 | 24° 3 | 10°19 | 16°11 | 12°16 | 7°23 | 8°38 | 1°18 | 11°43 | M26 |
| T 27 | 0 24 20 | 4° 9'38 | 16°38 | 29°39 | 2°31 | 20°46 | 28°17 | 24° 4 | 10°16 | 16°10 | 12°16 | 7°19 | 8°35 | 1°25 | 11°41 | T 27 |
| W28 | 0 28 17 | 5° 8'41 | 1♓32 | 0♏41 | 3°44 | 21°20 | 28° 9 | 24° 5 | 10°14 | 16°10 | 12°17 | 7°15 | 8°32 | 1°31 | 11°38 | W28 |
| T 29 | 0 32 13 | 6° 7'45 | 16°34 | 1°40 | 4°57 | 21°53 | 28° 1 | 24° 6 | 10°11 | 16° 9 | 12°17 | 7°10 | 8°29 | 1°38 | 11°35 | T 29 |
| F 30 | 0 36 10 | 7♎ 6'52 | 1♈37 | 2♏36 | 6♍10 | 22♋26 | 27♓53 | 24♊ 6 | 10♈ 9 | 16♒ 8 | 12♋17 | 7♏ 6 | 8♏26 | 1♍45 | 11♈32 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n18 | 4s25 | 4n25 | 3n 1 | 0n34 | 19n31 | 0s22 | 23n42 | 0n20 | 0s50 | 1s36 | 21n55 | 1s22 | 3n48 | 0s43 | 16s 8 | 0s18 | 21n23 | 1s34 | 14s25 | 14s50 | 7n26 | 6n54 | 2n 0 |
| F 2 | 7 56 | 0n41 | 3 36 | 2 15 | 0 27 | 19 18 | 0 18 | 23 42 | 0 21 | 0 53 | 1 36 | 21 56 | 1 22 | 3 47 | 0 43 | 16 9 | 0 18 | 21 23 | 1 34 | 14 23 | 14 49 | 7 24 | 6 53 | 2 0 |
| S 3 | 7 34 | 5 41 | 2 33 | 1 30 | 0 20 | 19 5 | 0 15 | 23 41 | 0 22 | 0 55 | 1 37 | 21 56 | 1 23 | 3 46 | 0 43 | 16 9 | 0 18 | 21 23 | 1 34 | 14 21 | 14 48 | 7 22 | 6 52 | 2 0 |
| S 4 | 7 12 | 10 13 | 1 22 | 0 46 | 0 13 | 18 52 | 0 11 | 23 40 | 0 23 | 0 58 | 1 37 | 21 56 | 1 23 | 3 45 | 0 43 | 16 9 | 0 18 | 21 23 | 1 34 | 14 20 | 14 47 | 7 20 | 6 51 | 2 0 |
| M 5 | 6 50 | 14 1 | 0 7 | 0 1 | 0 5 | 18 38 | 0 8 | 23 39 | 0 24 | 1 1 | 1 37 | 21 56 | 1 23 | 3 44 | 0 43 | 16 10 | 0 18 | 21 23 | 1 34 | 14 20 | 14 46 | 7 18 | 6 50 | 2 0 |
| T 6 | 6 27 | 16 55 | 1s 6 | 0s43 | 0s 2 | 18 24 | 0 5 | 23 38 | 0 25 | 1 4 | 1 37 | 21 56 | 1 23 | 3 44 | 0 43 | 16 10 | 0 18 | 21 23 | 1 34 | 14 20 | 14 45 | 7 16 | 6 49 | 2 0 |
| W 7 | 6 5 | 18 48 | 2 13 | 1 27 | 0 10 | 18 9 | 0 1 | 23 36 | 0 27 | 1 7 | 1 37 | 21 56 | 1 23 | 3 43 | 0 43 | 16 11 | 0 18 | 21 23 | 1 34 | 14 20 | 14 44 | 7 14 | 6 48 | 2 0 |
| T 8 | 5 42 | 19 39 | 3 11 | 2 10 | 0 17 | 17 53 | 0n 2 | 23 35 | 0 28 | 1 11 | 1 37 | 21 56 | 1 23 | 3 42 | 0 43 | 16 11 | 0 18 | 21 23 | 1 33 | 14 20 | 14 43 | 7 12 | 6 47 | 2 0 |
| F 9 | 5 19 | 19 30 | 3 59 | 2 53 | 0 25 | 17 37 | 0 5 | 23 33 | 0 29 | 1 14 | 1 37 | 21 56 | 1 23 | 3 41 | 0 43 | 16 12 | 0 18 | 21 23 | 1 33 | 14 20 | 14 42 | 7 10 | 6 46 | 2 0 |
| S 10 | 4 57 | 18 26 | 4 34 | 3 35 | 0 33 | 17 20 | 0 9 | 23 31 | 0 30 | 1 17 | 1 38 | 21 56 | 1 23 | 3 40 | 0 43 | 16 12 | 0 18 | 21 23 | 1 33 | 14 19 | 14 41 | 7 8 | 6 45 | 2 0 |
| S 11 | 4 34 | 16 33 | 4 57 | 4 17 | 0 41 | 17 3 | 0 12 | 23 29 | 0 31 | 1 20 | 1 38 | 21 56 | 1 23 | 3 39 | 0 43 | 16 12 | 0 18 | 21 22 | 1 33 | 14 17 | 14 40 | 7 6 | 6 44 | 2 0 |
| M12 | 4 11 | 13 58 | 5 7 | 4 59 | 0 49 | 16 46 | 0 15 | 23 27 | 0 32 | 1 23 | 1 38 | 21 56 | 1 23 | 3 38 | 0 43 | 16 13 | 0 18 | 21 22 | 1 33 | 14 15 | 14 39 | 7 4 | 6 43 | 2 0 |
| T 13 | 3 48 | 10 51 | 5 3 | 5 39 | 0 56 | 16 28 | 0 18 | 23 25 | 0 33 | 1 26 | 1 38 | 21 56 | 1 23 | 3 38 | 0 43 | 16 13 | 0 18 | 21 22 | 1 33 | 14 12 | 14 37 | 7 2 | 6 42 | 2 0 |
| W14 | 3 25 | 7 18 | 4 46 | 6 20 | 1 4 | 16 9 | 0 22 | 23 23 | 0 34 | 1 29 | 1 38 | 21 57 | 1 23 | 3 37 | 0 43 | 16 14 | 0 18 | 21 22 | 1 33 | 14 9 | 14 36 | 7 0 | 6 41 | 2 0 |
| T 15 | 3 1 | 3 28 | 4 17 | 6 59 | 1 12 | 15 50 | 0 25 | 23 20 | 0 35 | 1 33 | 1 38 | 21 57 | 1 23 | 3 36 | 0 43 | 16 14 | 0 18 | 21 22 | 1 33 | 14 6 | 14 35 | 6 58 | 6 40 | 2 0 |
| F 16 | 2 38 | 0s32 | 3 37 | 7 38 | 1 20 | 15 31 | 0 28 | 23 18 | 0 36 | 1 36 | 1 38 | 21 57 | 1 23 | 3 35 | 0 43 | 16 14 | 0 18 | 21 22 | 1 33 | 14 4 | 14 34 | 6 56 | 6 39 | 2 0 |
| S 17 | 2 15 | 4 32 | 2 46 | 8 16 | 1 28 | 15 11 | 0 31 | 23 15 | 0 37 | 1 39 | 1 38 | 21 57 | 1 23 | 3 34 | 0 43 | 16 15 | 0 18 | 21 22 | 1 33 | 14 2 | 14 33 | 6 54 | 6 38 | 2 0 |
| S 18 | 1 52 | 8 23 | 1 48 | 8 54 | 1 36 | 14 50 | 0 34 | 23 12 | 0 38 | 1 42 | 1 38 | 21 57 | 1 24 | 3 33 | 0 43 | 16 15 | 0 18 | 21 22 | 1 33 | 14 0 | 14 32 | 6 52 | 6 37 | 1 59 |
| M19 | 1 28 | 11 55 | 0 44 | 9 30 | 1 43 | 14 30 | 0 36 | 23 9 | 0 40 | 1 46 | 1 38 | 21 57 | 1 24 | 3 32 | 0 43 | 16 15 | 0 18 | 21 22 | 1 33 | 14 0 | 14 31 | 6 50 | 6 36 | 1 59 |
| T 20 | 1 5 | 14 59 | 0n23 | 10 6 | 1 51 | 14 9 | 0 39 | 23 6 | 0 41 | 1 49 | 1 38 | 21 57 | 1 24 | 3 31 | 0 43 | 16 16 | 0 18 | 21 22 | 1 33 | 14 0 | 14 30 | 6 47 | 6 35 | 1 59 |
| W21 | 0 41 | 17 24 | 1 31 | 10 41 | 1 58 | 13 47 | 0 42 | 23 2 | 0 42 | 1 52 | 1 38 | 21 57 | 1 24 | 3 30 | 0 43 | 16 16 | 0 18 | 21 22 | 1 33 | 14 0 | 14 29 | 6 45 | 6 34 | 1 59 |
| T 22 | 0 18 | 18 59 | 2 35 | 11 16 | 2 5 | 13 25 | 0 45 | 22 59 | 0 43 | 1 55 | 1 38 | 21 57 | 1 24 | 3 29 | 0 43 | 16 16 | 0 18 | 21 22 | 1 33 | 14 1 | 14 28 | 6 43 | 6 33 | 1 59 |
| F 23 | 0s 5 | 19 35 | 3 33 | 11 49 | 2 13 | 13 3 | 0 47 | 22 56 | 0 44 | 1 58 | 1 38 | 21 57 | 1 24 | 3 28 | 0 43 | 16 17 | 0 18 | 21 22 | 1 33 | 14 1 | 14 27 | 6 41 | 6 32 | 1 59 |
| S 24 | 0 29 | 19 6 | 4 20 | 12 21 | 2 20 | 12 40 | 0 50 | 22 52 | 0 45 | 2 2 | 1 38 | 21 57 | 1 24 | 3 28 | 0 43 | 16 17 | 0 18 | 21 22 | 1 33 | 14 1 | 14 26 | 6 39 | 6 30 | 1 59 |
| S 25 | 0 52 | 17 27 | 4 54 | 12 52 | 2 26 | 12 17 | 0 53 | 22 48 | 0 47 | 2 5 | 1 38 | 21 57 | 1 24 | 3 27 | 0 43 | 16 17 | 0 18 | 21 22 | 1 33 | 14 1 | 14 25 | 6 37 | 6 29 | 1 59 |
| M26 | 1 16 | 14 42 | 5 11 | 13 22 | 2 33 | 11 53 | 0 55 | 22 44 | 0 48 | 2 8 | 1 38 | 21 57 | 1 24 | 3 26 | 0 43 | 16 18 | 0 18 | 21 22 | 1 33 | 14 0 | 14 24 | 6 35 | 6 28 | 1 59 |
| T 27 | 1 39 | 10 59 | 5 8 | 13 51 | 2 39 | 11 29 | 0 57 | 22 41 | 0 49 | 2 11 | 1 38 | 21 57 | 1 24 | 3 25 | 0 43 | 16 18 | 0 18 | 21 22 | 1 33 | 13 59 | 14 23 | 6 33 | 6 27 | 1 59 |
| W28 | 2 3 | 6 31 | 4 45 | 14 19 | 2 45 | 11 5 | 1 0 | 22 37 | 0 50 | 2 14 | 1 38 | 21 57 | 1 24 | 3 24 | 0 43 | 16 18 | 0 18 | 21 22 | 1 33 | 13 57 | 14 22 | 6 31 | 6 26 | 1 59 |
| T 29 | 2 26 | 1 36 | 4 2 | 14 45 | 2 51 | 10 41 | 1 2 | 22 32 | 0 51 | 2 17 | 1 38 | 21 57 | 1 24 | 3 23 | 0 43 | 16 19 | 0 18 | 21 22 | 1 33 | 13 56 | 14 21 | 6 29 | 6 25 | 1 59 |
| F 30 | 2s50 | 3n25 | 3n 2 | 15s10 | 2s57 | 10n16 | 1n 4 | 22n28 | 0n52 | 2s20 | 1s38 | 21n57 | 1s24 | 3n22 | 0s43 | 16s19 | 0s18 | 21n22 | 1s33 | 13s54 | 14s20 | 6n27 | 6n23 | 1n59 |

Julian Day Number = 2334180.5, Delta T = 24.43 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'18, Lahiri = 19°22'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## OCTOBER 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 40 6 | 8♎ 6'01 | 16♈29 | 3♏30 | 7♍23 | 22♋59 | 27°R46 | 24♊ 7 | 10°R 7 | 16°R 7 | 12♋18 | 7°R 4 | 8♏22 | 1♍51 | 11°R29 | S 1 |
| S 2 | 0 44 3 | 9° 5'12 | 1♉ 4 | 4°20 | 8°36 | 23°32 | 27♓38 | 24° 8 | 10♈ 4 | 16♒ 6 | 12°18 | 7°D 2 | 8°19 | 1°58 | 11♈27 | S 2 |
| M 3 | 0 47 59 | 10° 4'25 | 15°16 | 5° 7 | 9°49 | 24° 5 | 27°30 | 24° 8 | 10° 2 | 16° 5 | 12°18 | 7♏ 2 | 8°16 | 2° 5 | 11°24 | M 3 |
| T 4 | 0 51 56 | 11° 3'40 | 29° 1 | 5°50 | 11° 2 | 24°38 | 27°22 | 24° 8 | 9°59 | 16° 4 | 12°18 | 7° 3 | 8°13 | 2°12 | 11°21 | T 4 |
| W 5 | 0 55 53 | 12° 2'58 | 12♊20 | 6°28 | 12°16 | 25°10 | 27°15 | 24° 8 | 9°57 | 16° 4 | 12°19 | 7° 5 | 8°10 | 2°18 | 11°18 | W 5 |
| T 6 | 0 59 49 | 13° 2'18 | 25°14 | 7° 2 | 13°29 | 25°42 | 27° 8 | 24°R 8 | 9°54 | 16° 3 | 12°19 | 7° 7 | 8° 6 | 2°25 | 11°15 | T 6 |
| F 7 | 1 3 46 | 14° 1'40 | 7♋47 | 7°31 | 14°42 | 26°14 | 27° 0 | 24° 8 | 9°52 | 16° 2 | 12°19 | 7° 7 | 8° 3 | 2°32 | 11°12 | F 7 |
| S 8 | 1 7 42 | 15° 1'05 | 20° 3 | 7°55 | 15°56 | 26°46 | 26°53 | 24° 8 | 9°50 | 16° 2 | 12°19 | 7°R 8 | 8° 0 | 2°38 | 11°10 | S 8 |
| S 9 | 1 11 39 | 16° 0'31 | 2♌ 7 | 8°12 | 17° 9 | 27°18 | 26°46 | 24° 8 | 9°47 | 16° 1 | 12°19 | 7° 7 | 7°57 | 2°45 | 11° 7 | S 9 |
| M10 | 1 15 35 | 17° 0'01 | 14° 2 | 8°23 | 18°23 | 27°49 | 26°39 | 24° 8 | 9°45 | 16° 0 | 12°19 | 7° 5 | 7°54 | 2°52 | 11° 4 | M10 |
| T 11 | 1 19 32 | 17°59'32 | 25°53 | 8°R27 | 19°37 | 28°20 | 26°32 | 24° 7 | 9°42 | 16° 0 | 12°19 | 7° 2 | 7°51 | 2°59 | 11° 1 | T 11 |
| W12 | 1 23 28 | 18°59'06 | 7♍45 | 8°24 | 20°51 | 28°51 | 26°25 | 24° 7 | 9°40 | 15°59 | 12°19 | 6°59 | 7°47 | 3° 5 | 10°58 | W12 |
| T 13 | 1 27 25 | 19°58'42 | 19°40 | 8°12 | 22° 4 | 29°22 | 26°18 | 24° 6 | 9°38 | 15°59 | 12°R19 | 6°56 | 7°44 | 3°12 | 10°56 | T 13 |
| F 14 | 1 31 22 | 20°58'20 | 1♎40 | 7°52 | 23°18 | 29°53 | 26°11 | 24° 5 | 9°35 | 15°58 | 12°19 | 6°54 | 7°41 | 3°19 | 10°53 | F 14 |
| S 15 | 1 35 18 | 21°58'00 | 13°49 | 7°23 | 24°32 | 0♌23 | 26° 5 | 24° 4 | 9°33 | 15°58 | 12°19 | 6°52 | 7°38 | 3°25 | 10°50 | S 15 |
| S 16 | 1 39 15 | 22°57'42 | 26° 7 | 6°46 | 25°46 | 0°54 | 25°59 | 24° 3 | 9°30 | 15°57 | 12°19 | 6°51 | 7°35 | 3°32 | 10°47 | S 16 |
| M17 | 1 43 11 | 23°57'26 | 8♏36 | 6° 0 | 27° 0 | 1°24 | 25°52 | 24° 2 | 9°28 | 15°57 | 12°19 | 6°D51 | 7°31 | 3°39 | 10°45 | M17 |
| T 18 | 1 47 8 | 24°57'12 | 21°17 | 5° 5 | 28°14 | 1°53 | 25°46 | 24° 1 | 9°26 | 15°57 | 12°19 | 6°51 | 7°28 | 3°46 | 10°42 | T 18 |
| W19 | 1 51 4 | 25°57'00 | 4♐10 | 4° 4 | 29°28 | 2°23 | 25°40 | 23°59 | 9°23 | 15°56 | 12°19 | 6°52 | 7°25 | 3°52 | 10°39 | W19 |
| T 20 | 1 55 1 | 26°56'50 | 17°17 | 2°55 | 0♎43 | 2°52 | 25°35 | 23°58 | 9°21 | 15°56 | 12°19 | 6°53 | 7°22 | 3°59 | 10°36 | T 20 |
| F 21 | 1 58 57 | 27°56'42 | 0♑38 | 1°42 | 1°57 | 3°21 | 25°29 | 23°56 | 9°19 | 15°56 | 12°18 | 6°54 | 7°19 | 4° 6 | 10°34 | F 21 |
| S 22 | 2 2 54 | 28°56'35 | 14°14 | 0°26 | 3°11 | 3°50 | 25°23 | 23°54 | 9°17 | 15°56 | 12°18 | 6°54 | 7°16 | 4°12 | 10°31 | S 22 |
| S 23 | 2 6 51 | 29°56'30 | 28° 6 | 29♎10 | 4°25 | 4°19 | 25°18 | 23°53 | 9°14 | 15°56 | 12°18 | 6°R54 | 7°12 | 4°19 | 10°28 | S 23 |
| M24 | 2 10 47 | 0♏56'27 | 12♒12 | 27°55 | 5°40 | 4°47 | 25°13 | 23°51 | 9°12 | 15°55 | 12°18 | 6°54 | 7° 9 | 4°26 | 10°26 | M24 |
| T 25 | 2 14 44 | 1°56'25 | 26°32 | 26°44 | 6°54 | 5°15 | 25° 8 | 23°49 | 9°10 | 15°55 | 12°17 | 6°54 | 7° 6 | 4°33 | 10°23 | T 25 |
| W26 | 2 18 40 | 2°56'24 | 11♓ 2 | 25°39 | 8° 8 | 5°43 | 25° 3 | 23°47 | 9° 8 | 15°55 | 12°17 | 6°54 | 7° 3 | 4°39 | 10°21 | W26 |
| T 27 | 2 22 37 | 3°56'26 | 25°38 | 24°42 | 9°23 | 6°11 | 24°59 | 23°44 | 9° 6 | 15°55 | 12°17 | 6°53 | 7° 0 | 4°46 | 10°18 | T 27 |
| F 28 | 2 26 33 | 4°56'29 | 10♈15 | 23°55 | 10°37 | 6°38 | 24°54 | 23°42 | 9° 4 | 15°D55 | 12°16 | 6°53 | 6°57 | 4°53 | 10°16 | F 28 |
| S 29 | 2 30 30 | 5°56'33 | 24°46 | 23°19 | 11°52 | 7° 5 | 24°50 | 23°40 | 9° 1 | 15°55 | 12°16 | 6°53 | 6°53 | 4°59 | 10°13 | S 29 |
| S 30 | 2 34 26 | 6°56'40 | 9♉ 6 | 22°54 | 13° 6 | 7°32 | 24°46 | 23°37 | 8°59 | 15°55 | 12°16 | 6°53 | 6°50 | 5° 6 | 10°11 | S 30 |
| M31 | 2 38 23 | 7♏56'48 | 23♉ 8 | 22♎41 | 14♎21 | 7♌58 | 24♓42 | 23♊35 | 8♈57 | 15♒55 | 12♋15 | 6♏53 | 6♏47 | 5♍13 | 10♈ 8 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s13 | 8n11 | 1n50 | 15s33 | 3s 2 | 9n51 | 1n 6 | 22n24 | 0n54 | 2s24 | 1s38 | 21n56 | 1s24 | 3n21 | 0s43 | 16s19 | 0s18 | 21n22 | 1s33 | 13s54 | 14s19 | 6n25 | 6n22 | 1n59 |
| S 2 | 3 36 | 12 23 | 0 33 | 15 54 | 3 6 | 9 25 | 1 8 | 22 20 | 0 55 | 2 27 | 1 38 | 21 56 | 1 25 | 3 20 | 0 43 | 16 19 | 0 18 | 21 22 | 1 33 | 13 53 | 14 18 | 6 23 | 6 21 | 1 59 |
| M 3 | 4 0 | 15 43 | 0s45 | 16 14 | 3 10 | 8 59 | 1 10 | 22 15 | 0 56 | 2 30 | 1 38 | 21 56 | 1 25 | 3 19 | 0 43 | 16 20 | 0 18 | 21 22 | 1 33 | 13 53 | 14 17 | 6 21 | 6 20 | 1 59 |
| T 4 | 4 23 | 18 3 | 1 58 | 16 32 | 3 14 | 8 33 | 1 12 | 22 11 | 0 57 | 2 33 | 1 38 | 21 56 | 1 25 | 3 18 | 0 43 | 16 20 | 0 18 | 21 22 | 1 33 | 13 54 | 14 16 | 6 19 | 6 19 | 1 59 |
| W 5 | 4 46 | 19 18 | 3 2 | 16 48 | 3 17 | 8 7 | 1 14 | 22 6 | 0 59 | 2 35 | 1 38 | 21 56 | 1 25 | 3 17 | 0 43 | 16 20 | 0 18 | 21 22 | 1 33 | 13 54 | 14 15 | 6 17 | 6 18 | 1 58 |
| T 6 | 5 9 | 19 29 | 3 55 | 17 1 | 3 19 | 7 41 | 1 16 | 22 1 | 1 0 | 2 38 | 1 38 | 21 56 | 1 25 | 3 16 | 0 43 | 16 20 | 0 18 | 21 22 | 1 33 | 13 55 | 14 14 | 6 15 | 6 16 | 1 58 |
| F 7 | 5 33 | 18 41 | 4 35 | 17 12 | 3 20 | 7 14 | 1 18 | 21 56 | 1 1 | 2 41 | 1 38 | 21 56 | 1 25 | 3 15 | 0 43 | 16 20 | 0 18 | 21 22 | 1 33 | 13 55 | 14 13 | 6 13 | 6 15 | 1 58 |
| S 8 | 5 56 | 17 1 | 5 1 | 17 20 | 3 21 | 6 47 | 1 19 | 21 52 | 1 3 | 2 44 | 1 38 | 21 56 | 1 25 | 3 14 | 0 43 | 16 21 | 0 18 | 21 22 | 1 33 | 13 55 | 14 12 | 6 11 | 6 14 | 1 58 |
| S 9 | 6 18 | 14 37 | 5 14 | 17 26 | 3 21 | 6 19 | 1 21 | 21 47 | 1 4 | 2 47 | 1 37 | 21 56 | 1 25 | 3 13 | 0 43 | 16 21 | 0 18 | 21 22 | 1 33 | 13 55 | 14 11 | 6 9 | 6 13 | 1 58 |
| M10 | 6 41 | 11 39 | 5 13 | 17 28 | 3 19 | 5 52 | 1 23 | 21 42 | 1 5 | 2 49 | 1 37 | 21 56 | 1 25 | 3 12 | 0 43 | 16 21 | 0 18 | 21 22 | 1 33 | 13 54 | 14 10 | 6 7 | 6 12 | 1 58 |
| T 11 | 7 4 | 8 14 | 4 58 | 17 27 | 3 17 | 5 24 | 1 24 | 21 37 | 1 6 | 2 52 | 1 37 | 21 56 | 1 25 | 3 11 | 0 43 | 16 21 | 0 18 | 21 22 | 1 33 | 13 53 | 14 9 | 6 5 | 6 10 | 1 58 |
| W12 | 7 27 | 4 29 | 4 31 | 17 22 | 3 13 | 4 57 | 1 25 | 21 32 | 1 8 | 2 55 | 1 37 | 21 56 | 1 25 | 3 11 | 0 43 | 16 21 | 0 18 | 21 22 | 1 33 | 13 52 | 14 8 | 6 3 | 6 9 | 1 58 |
| T 13 | 7 49 | 0 33 | 3 52 | 17 13 | 3 8 | 4 29 | 1 27 | 21 27 | 1 9 | 2 57 | 1 37 | 21 56 | 1 25 | 3 10 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 51 | 14 7 | 6 1 | 6 8 | 1 58 |
| F 14 | 8 12 | 3s27 | 3 2 | 17 0 | 3 1 | 4 0 | 1 28 | 21 21 | 1 11 | 3 0 | 1 37 | 21 56 | 1 25 | 3 9 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 50 | 14 6 | 5 59 | 6 7 | 1 58 |
| S 15 | 8 34 | 7 22 | 2 4 | 16 43 | 2 52 | 3 32 | 1 29 | 21 16 | 1 12 | 3 2 | 1 37 | 21 55 | 1 25 | 3 8 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 50 | 14 5 | 5 57 | 6 6 | 1 58 |
| S 16 | 8 56 | 11 1 | 0 59 | 16 21 | 2 42 | 3 4 | 1 30 | 21 11 | 1 13 | 3 5 | 1 36 | 21 55 | 1 25 | 3 7 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 49 | 14 4 | 5 55 | 6 5 | 1 57 |
| M17 | 9 19 | 14 14 | 0n10 | 15 54 | 2 30 | 2 35 | 1 31 | 21 6 | 1 15 | 3 7 | 1 36 | 21 55 | 1 26 | 3 6 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 49 | 14 3 | 5 53 | 6 3 | 1 57 |
| T 18 | 9 41 | 16 50 | 1 19 | 15 23 | 2 16 | 2 7 | 1 32 | 21 0 | 1 16 | 3 9 | 1 36 | 21 55 | 1 26 | 3 5 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 49 | 14 2 | 5 50 | 6 2 | 1 57 |
| W19 | 10 2 | 18 38 | 2 26 | 14 47 | 2 1 | 1 38 | 1 33 | 20 55 | 1 18 | 3 11 | 1 36 | 21 55 | 1 26 | 3 4 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 50 | 14 1 | 5 48 | 6 1 | 1 57 |
| T 20 | 10 24 | 19 27 | 3 26 | 14 8 | 1 44 | 1 9 | 1 34 | 20 50 | 1 19 | 3 14 | 1 36 | 21 55 | 1 26 | 3 3 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 50 | 14 0 | 5 46 | 6 0 | 1 57 |
| F 21 | 10 46 | 19 13 | 4 16 | 13 25 | 1 25 | 0 40 | 1 34 | 20 44 | 1 20 | 3 16 | 1 36 | 21 55 | 1 26 | 3 2 | 0 43 | 16 22 | 0 18 | 21 22 | 1 33 | 13 50 | 13 59 | 5 44 | 5 59 | 1 57 |
| S 22 | 11 7 | 17 52 | 4 53 | 12 40 | 1 5 | 0 11 | 1 35 | 20 39 | 1 22 | 3 18 | 1 35 | 21 55 | 1 26 | 3 1 | 0 43 | 16 22 | 0 18 | 21 22 | 1 32 | 13 50 | 13 57 | 5 42 | 5 58 | 1 57 |
| S 23 | 11 28 | 15 27 | 5 14 | 11 54 | 0 45 | 0s18 | 1 35 | 20 34 | 1 23 | 3 20 | 1 35 | 21 55 | 1 26 | 3 1 | 0 43 | 16 23 | 0 18 | 21 22 | 1 32 | 13 51 | 13 56 | 5 40 | 5 56 | 1 57 |
| M24 | 11 49 | 12 6 | 5 16 | 11 8 | 0 24 | 0 47 | 1 36 | 20 28 | 1 25 | 3 21 | 1 35 | 21 54 | 1 26 | 3 0 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 51 | 13 55 | 5 38 | 5 55 | 1 57 |
| T 25 | 12 10 | 8 0 | 4 59 | 10 23 | 0 4 | 1 16 | 1 36 | 20 23 | 1 26 | 3 23 | 1 35 | 21 54 | 1 26 | 2 59 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 50 | 13 54 | 5 36 | 5 54 | 1 56 |
| W26 | 12 31 | 3 23 | 4 23 | 9 41 | 0n16 | 1 45 | 1 37 | 20 17 | 1 28 | 3 25 | 1 35 | 21 54 | 1 26 | 2 58 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 50 | 13 53 | 5 34 | 5 53 | 1 56 |
| T 27 | 12 51 | 1n28 | 3 30 | 9 2 | 0 35 | 2 14 | 1 37 | 20 12 | 1 29 | 3 27 | 1 34 | 21 54 | 1 26 | 2 57 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 50 | 13 52 | 5 32 | 5 52 | 1 56 |
| F 28 | 13 11 | 6 15 | 2 23 | 8 28 | 0 53 | 2 44 | 1 37 | 20 7 | 1 31 | 3 28 | 1 34 | 21 54 | 1 26 | 2 56 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 50 | 13 51 | 5 30 | 5 51 | 1 56 |
| S 29 | 13 31 | 10 39 | 1 7 | 8 0 | 1 9 | 3 13 | 1 37 | 20 1 | 1 32 | 3 30 | 1 34 | 21 54 | 1 26 | 2 56 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 50 | 13 50 | 5 28 | 5 50 | 1 56 |
| S 30 | 13 51 | 14 21 | 0s12 | 7 37 | 1 24 | 3 42 | 1 37 | 19 56 | 1 34 | 3 31 | 1 34 | 21 53 | 1 26 | 2 55 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 50 | 13 49 | 5 26 | 5 49 | 1 56 |
| M31 | 14s11 | 17n 9 | 1s29 | 7s20 | 1n37 | 4s11 | 1n37 | 19n51 | 1n36 | 3s32 | 1s33 | 21n53 | 1s26 | 2n54 | 0s43 | 16s23 | 0s18 | 21n23 | 1s32 | 13s50 | 13s48 | 5n24 | 5n48 | 1n56 |

Julian Day Number = 2334210.5, Delta T = 24.38 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'22, Lahiri = 19°22'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## NOVEMBER 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 42 19 | 8♏56'59 | 6♊51 | 22°D39 | 15♎36 | 8♌25 | 24°R38 | 23°R32 | 8°R55 | 15♒55 | 12°R15 | 6°R53 | 6♏44 | 5♍19 | 10°R 6 | T 1 |
| W 2 | 2 46 16 | 9°57'11 | 20°11 | 22♎48 | 16°50 | 8°51 | 24♓35 | 23♊29 | 8♈53 | 15°56 | 12♋14 | 6♏52 | 6°41 | 5°26 | 10♈ 4 | W 2 |
| T 3 | 2 50 13 | 10°57'25 | 3♋ 9 | 23° 8 | 18° 5 | 9°16 | 24°31 | 23°26 | 8°51 | 15°56 | 12°14 | 6°52 | 6°37 | 5°33 | 10° 1 | T 3 |
| F 4 | 2 54 9 | 11°57'42 | 15°46 | 23°38 | 19°20 | 9°42 | 24°28 | 23°23 | 8°49 | 15°56 | 12°13 | 6°51 | 6°34 | 5°40 | 9°59 | F 4 |
| S 5 | 2 58 6 | 12°58'00 | 28° 5 | 24°16 | 20°35 | 10° 7 | 24°25 | 23°20 | 8°48 | 15°56 | 12°13 | 6°51 | 6°31 | 5°46 | 9°57 | S 5 |
| S 6 | 3 2 2 | 13°58'20 | 10♌11 | 25° 2 | 21°50 | 10°31 | 24°23 | 23°17 | 8°46 | 15°57 | 12°12 | 6°D51 | 6°28 | 5°53 | 9°54 | S 6 |
| M 7 | 3 5 59 | 14°58'42 | 22° 7 | 25°55 | 23° 4 | 10°56 | 24°20 | 23°14 | 8°44 | 15°57 | 12°12 | 6°51 | 6°25 | 6° 0 | 9°52 | M 7 |
| T 8 | 3 9 55 | 15°59'06 | 3♍59 | 26°54 | 24°19 | 11°20 | 24°18 | 23°10 | 8°42 | 15°57 | 12°11 | 6°51 | 6°22 | 6° 6 | 9°50 | T 8 |
| W 9 | 3 13 52 | 16°59'32 | 15°51 | 27°59 | 25°34 | 11°44 | 24°15 | 23° 7 | 8°40 | 15°58 | 12°10 | 6°52 | 6°18 | 6°13 | 9°48 | W 9 |
| T 10 | 3 17 48 | 18° 0'00 | 27°47 | 29° 8 | 26°49 | 12° 7 | 24°14 | 23° 3 | 8°39 | 15°58 | 12°10 | 6°53 | 6°15 | 6°20 | 9°46 | T 10 |
| F 11 | 3 21 45 | 19° 0'30 | 9♎52 | 0♏22 | 28° 4 | 12°30 | 24°12 | 23° 0 | 8°37 | 15°59 | 12° 9 | 6°54 | 6°12 | 6°26 | 9°44 | F 11 |
| S 12 | 3 25 42 | 20° 1'01 | 22° 9 | 1°38 | 29°19 | 12°53 | 24°10 | 22°56 | 8°35 | 15°59 | 12° 8 | 6°55 | 6° 9 | 6°33 | 9°42 | S 12 |
| S 13 | 3 29 38 | 21° 1'34 | 4♏40 | 2°58 | 0♏34 | 13°15 | 24° 9 | 22°52 | 8°34 | 16° 0 | 12° 8 | 6°R56 | 6° 6 | 6°40 | 9°40 | S 13 |
| M14 | 3 33 35 | 22° 2'09 | 17°26 | 4°20 | 1°49 | 13°37 | 24° 8 | 22°48 | 8°32 | 16° 0 | 12° 7 | 6°55 | 6° 3 | 6°47 | 9°38 | M14 |
| T 15 | 3 37 31 | 23° 2'45 | 0♐29 | 5°44 | 3° 4 | 13°59 | 24° 7 | 22°45 | 8°31 | 16° 1 | 12° 6 | 6°54 | 5°59 | 6°53 | 9°36 | T 15 |
| W16 | 3 41 28 | 24° 3'23 | 13°47 | 7°10 | 4°19 | 14°20 | 24° 6 | 22°41 | 8°29 | 16° 1 | 12° 6 | 6°52 | 5°56 | 7° 0 | 9°34 | W16 |
| T 17 | 3 45 24 | 25° 4'02 | 27°20 | 8°38 | 5°35 | 14°40 | 24° 6 | 22°36 | 8°28 | 16° 2 | 12° 5 | 6°50 | 5°53 | 7° 7 | 9°33 | T 17 |
| F 18 | 3 49 21 | 26° 4'43 | 11♑ 4 | 10° 6 | 6°50 | 15° 1 | 24° 5 | 22°32 | 8°26 | 16° 3 | 12° 4 | 6°47 | 5°50 | 7°13 | 9°31 | F 18 |
| S 19 | 3 53 17 | 27° 5'24 | 24°59 | 11°36 | 8° 5 | 15°21 | 24°D 5 | 22°28 | 8°25 | 16° 4 | 12° 3 | 6°45 | 5°47 | 7°20 | 9°29 | S 19 |
| S 20 | 3 57 14 | 28° 6'07 | 9♒ 0 | 13° 6 | 9°20 | 15°40 | 24° 5 | 22°24 | 8°23 | 16° 4 | 12° 2 | 6°43 | 5°43 | 7°27 | 9°27 | S 20 |
| M21 | 4 1 11 | 29° 6'51 | 23° 7 | 14°37 | 10°35 | 15°59 | 24° 6 | 22°20 | 8°22 | 16° 5 | 12° 1 | 6°D42 | 5°40 | 7°34 | 9°26 | M21 |
| T 22 | 4 5 7 | 0♐ 7'35 | 7♓18 | 16° 9 | 11°50 | 16°18 | 24° 6 | 22°15 | 8°21 | 16° 6 | 12° 1 | 6°42 | 5°37 | 7°40 | 9°24 | T 22 |
| W23 | 4 9 4 | 1° 8'21 | 21°29 | 17°41 | 13° 6 | 16°36 | 24° 7 | 22°11 | 8°20 | 16° 7 | 12° 0 | 6°43 | 5°34 | 7°47 | 9°23 | W23 |
| T 24 | 4 13 0 | 2° 9'08 | 5♈40 | 19°13 | 14°21 | 16°54 | 24° 8 | 22° 6 | 8°19 | 16° 8 | 11°59 | 6°44 | 5°31 | 7°54 | 9°21 | T 24 |
| F 25 | 4 16 57 | 3° 9'55 | 19°47 | 20°45 | 15°36 | 17°11 | 24° 9 | 22° 2 | 8°17 | 16° 9 | 11°58 | 6°46 | 5°28 | 8° 0 | 9°20 | F 25 |
| S 26 | 4 20 53 | 4°10'44 | 3♉49 | 22°18 | 16°51 | 17°28 | 24°11 | 21°57 | 8°16 | 16°10 | 11°57 | 6°R46 | 5°24 | 8° 7 | 9°19 | S 26 |
| S 27 | 4 24 50 | 5°11'33 | 17°43 | 23°51 | 18° 7 | 17°44 | 24°12 | 21°53 | 8°15 | 16°11 | 11°56 | 6°46 | 5°21 | 8°14 | 9°17 | S 27 |
| M28 | 4 28 46 | 6°12'24 | 1♊24 | 25°24 | 19°22 | 18° 0 | 24°14 | 21°48 | 8°14 | 16°12 | 11°55 | 6°44 | 5°18 | 8°20 | 9°16 | M28 |
| T 29 | 4 32 43 | 7°13'16 | 14°52 | 26°58 | 20°37 | 18°15 | 24°16 | 21°43 | 8°13 | 16°13 | 11°54 | 6°40 | 5°15 | 8°27 | 9°15 | T 29 |
| W30 | 4 36 40 | 8♐14'09 | 28♊ 3 | 28♏31 | 21♏53 | 18♌30 | 24♓18 | 21♊39 | 8♈13 | 16♒14 | 11♋53 | 6♏36 | 5♏12 | 8♍34 | 9♈14 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s30 | 18n53 | 2s39 | 7s10 | 1n48 | 4s40 | 1n37 | 19n45 | 1n37 | 3s34 | 1s33 | 21n53 | 1s26 | 2n53 | 0s43 | 16s23 | 0s18 | 21n23 | 1s32 | 13s50 | 13s47 | 5n22 | 5n47 | 1n56 |
| W 2 | 14 49 | 19 30 | 3 38 | 7 5 | 1 57 | 5 9 | 1 37 | 19 40 | 1 39 | 3 35 | 1 33 | 21 53 | 1 26 | 2 53 | 0 43 | 16 23 | 0 18 | 21 23 | 1 32 | 13 50 | 13 46 | 5 20 | 5 46 | 1 55 |
| T 3 | 15 8 | 19 2 | 4 24 | 7 5 | 2 4 | 5 37 | 1 36 | 19 35 | 1 40 | 3 36 | 1 33 | 21 53 | 1 26 | 2 52 | 0 43 | 16 22 | 0 18 | 21 23 | 1 32 | 13 50 | 13 45 | 5 18 | 5 44 | 1 55 |
| F 4 | 15 27 | 17 39 | 4 56 | 7 11 | 2 10 | 6 6 | 1 36 | 19 29 | 1 42 | 3 37 | 1 33 | 21 53 | 1 26 | 2 51 | 0 43 | 16 22 | 0 18 | 21 23 | 1 32 | 13 50 | 13 44 | 5 16 | 5 43 | 1 55 |
| S 5 | 15 45 | 15 27 | 5 14 | 7 21 | 2 14 | 6 35 | 1 35 | 19 24 | 1 44 | 3 38 | 1 32 | 21 52 | 1 26 | 2 50 | 0 43 | 16 22 | 0 18 | 21 23 | 1 32 | 13 49 | 13 43 | 5 14 | 5 42 | 1 55 |
| S 6 | 16 4 | 12 38 | 5 17 | 7 35 | 2 16 | 7 3 | 1 35 | 19 19 | 1 45 | 3 39 | 1 32 | 21 52 | 1 26 | 2 50 | 0 43 | 16 22 | 0 18 | 21 23 | 1 32 | 13 49 | 13 42 | 5 12 | 5 41 | 1 55 |
| M 7 | 16 21 | 9 20 | 5 6 | 7 53 | 2 18 | 7 31 | 1 34 | 19 14 | 1 47 | 3 40 | 1 32 | 21 52 | 1 26 | 2 49 | 0 43 | 16 22 | 0 18 | 21 23 | 1 32 | 13 49 | 13 41 | 5 10 | 5 40 | 1 55 |
| T 8 | 16 39 | 5 41 | 4 42 | 8 14 | 2 18 | 8 0 | 1 34 | 19 9 | 1 49 | 3 40 | 1 31 | 21 52 | 1 26 | 2 48 | 0 43 | 16 22 | 0 18 | 21 24 | 1 32 | 13 49 | 13 40 | 5 8 | 5 39 | 1 55 |
| W 9 | 16 56 | 1 48 | 4 7 | 8 38 | 2 18 | 8 28 | 1 33 | 19 4 | 1 50 | 3 41 | 1 31 | 21 52 | 1 26 | 2 48 | 0 43 | 16 22 | 0 18 | 21 24 | 1 32 | 13 50 | 13 39 | 5 6 | 5 38 | 1 54 |
| T 10 | 17 13 | 2s11 | 3 20 | 9 4 | 2 16 | 8 55 | 1 32 | 18 59 | 1 52 | 3 41 | 1 31 | 21 52 | 1 26 | 2 47 | 0 43 | 16 22 | 0 18 | 21 24 | 1 32 | 13 50 | 13 38 | 5 4 | 5 38 | 1 54 |
| F 11 | 17 30 | 6 8 | 2 24 | 9 32 | 2 13 | 9 23 | 1 31 | 18 54 | 1 54 | 3 42 | 1 31 | 21 51 | 1 26 | 2 46 | 0 42 | 16 22 | 0 18 | 21 24 | 1 32 | 13 51 | 13 37 | 5 2 | 5 37 | 1 54 |
| S 12 | 17 46 | 9 53 | 1 21 | 10 2 | 2 10 | 9 50 | 1 30 | 18 49 | 1 56 | 3 42 | 1 30 | 21 51 | 1 26 | 2 46 | 0 42 | 16 21 | 0 18 | 21 24 | 1 32 | 13 51 | 13 36 | 5 0 | 5 36 | 1 54 |
| S 13 | 18 3 | 13 18 | 0 13 | 10 32 | 2 7 | 10 18 | 1 29 | 18 45 | 1 58 | 3 42 | 1 30 | 21 51 | 1 26 | 2 45 | 0 42 | 16 21 | 0 18 | 21 24 | 1 32 | 13 51 | 13 34 | 4 58 | 5 35 | 1 54 |
| M14 | 18 18 | 16 8 | 0n58 | 11 4 | 2 2 | 10 45 | 1 28 | 18 40 | 1 59 | 3 43 | 1 30 | 21 51 | 1 26 | 2 44 | 0 42 | 16 21 | 0 18 | 21 24 | 1 32 | 13 51 | 13 33 | 4 56 | 5 34 | 1 54 |
| T 15 | 18 34 | 18 13 | 2 7 | 11 37 | 1 57 | 11 11 | 1 27 | 18 36 | 2 1 | 3 43 | 1 30 | 21 51 | 1 26 | 2 44 | 0 42 | 16 21 | 0 18 | 21 24 | 1 32 | 13 51 | 13 32 | 4 53 | 5 33 | 1 54 |
| W16 | 18 49 | 19 21 | 3 10 | 12 10 | 1 52 | 11 38 | 1 26 | 18 31 | 2 3 | 3 43 | 1 29 | 21 50 | 1 26 | 2 43 | 0 42 | 16 21 | 0 18 | 21 24 | 1 32 | 13 50 | 13 31 | 4 51 | 5 32 | 1 53 |
| T 17 | 19 4 | 19 24 | 4 3 | 12 43 | 1 47 | 12 4 | 1 25 | 18 27 | 2 5 | 3 43 | 1 29 | 21 50 | 1 26 | 2 43 | 0 42 | 16 21 | 0 18 | 21 24 | 1 32 | 13 49 | 13 30 | 4 49 | 5 31 | 1 53 |
| F 18 | 19 18 | 18 18 | 4 44 | 13 17 | 1 41 | 12 30 | 1 24 | 18 23 | 2 7 | 3 43 | 1 29 | 21 50 | 1 26 | 2 42 | 0 42 | 16 20 | 0 18 | 21 24 | 1 32 | 13 48 | 13 29 | 4 47 | 5 30 | 1 53 |
| S 19 | 19 32 | 16 7 | 5 8 | 13 50 | 1 35 | 12 56 | 1 22 | 18 19 | 2 9 | 3 42 | 1 29 | 21 50 | 1 26 | 2 42 | 0 42 | 16 20 | 0 18 | 21 25 | 1 32 | 13 47 | 13 28 | 4 45 | 5 30 | 1 53 |
| S 20 | 19 46 | 12 58 | 5 15 | 14 24 | 1 28 | 13 21 | 1 21 | 18 15 | 2 11 | 3 42 | 1 28 | 21 50 | 1 26 | 2 41 | 0 42 | 16 20 | 0 18 | 21 25 | 1 32 | 13 47 | 13 27 | 4 43 | 5 29 | 1 53 |
| M21 | 20 0 | 9 4 | 5 2 | 14 57 | 1 22 | 13 46 | 1 19 | 18 11 | 2 13 | 3 42 | 1 28 | 21 49 | 1 26 | 2 41 | 0 42 | 16 20 | 0 18 | 21 25 | 1 32 | 13 46 | 13 26 | 4 41 | 5 28 | 1 53 |
| T 22 | 20 13 | 4 39 | 4 31 | 15 30 | 1 15 | 14 11 | 1 18 | 18 7 | 2 15 | 3 41 | 1 28 | 21 49 | 1 26 | 2 40 | 0 42 | 16 19 | 0 18 | 21 25 | 1 32 | 13 46 | 13 25 | 4 39 | 5 27 | 1 52 |
| W23 | 20 25 | 0n 3 | 3 44 | 16 3 | 1 8 | 14 35 | 1 16 | 18 3 | 2 17 | 3 41 | 1 27 | 21 49 | 1 26 | 2 40 | 0 42 | 16 19 | 0 18 | 21 25 | 1 32 | 13 47 | 13 24 | 4 37 | 5 27 | 1 52 |
| T 24 | 20 38 | 4 44 | 2 43 | 16 35 | 1 1 | 14 59 | 1 15 | 18 0 | 2 19 | 3 40 | 1 27 | 21 49 | 1 26 | 2 39 | 0 42 | 16 19 | 0 18 | 21 25 | 1 32 | 13 47 | 13 23 | 4 35 | 5 26 | 1 52 |
| F 25 | 20 49 | 9 10 | 1 32 | 17 6 | 0 54 | 15 22 | 1 13 | 17 57 | 2 21 | 3 39 | 1 27 | 21 48 | 1 26 | 2 39 | 0 42 | 16 19 | 0 18 | 21 25 | 1 31 | 13 48 | 13 22 | 4 33 | 5 25 | 1 52 |
| S 26 | 21 1 | 13 4 | 0 16 | 17 37 | 0 47 | 15 46 | 1 11 | 17 53 | 2 23 | 3 38 | 1 27 | 21 48 | 1 26 | 2 39 | 0 42 | 16 18 | 0 18 | 21 25 | 1 31 | 13 48 | 13 21 | 4 31 | 5 24 | 1 52 |
| S 27 | 21 12 | 16 11 | 1s 0 | 18 7 | 0 40 | 16 8 | 1 10 | 17 50 | 2 25 | 3 38 | 1 26 | 21 48 | 1 26 | 2 38 | 0 42 | 16 18 | 0 18 | 21 25 | 1 31 | 13 48 | 13 20 | 4 29 | 5 24 | 1 52 |
| M28 | 21 23 | 18 20 | 2 11 | 18 37 | 0 33 | 16 31 | 1 8 | 17 47 | 2 27 | 3 37 | 1 26 | 21 48 | 1 26 | 2 38 | 0 42 | 16 18 | 0 18 | 21 26 | 1 31 | 13 47 | 13 19 | 4 27 | 5 23 | 1 51 |
| T 29 | 21 33 | 19 25 | 3 13 | 19 5 | 0 26 | 16 53 | 1 6 | 17 45 | 2 29 | 3 36 | 1 26 | 21 47 | 1 26 | 2 38 | 0 42 | 16 17 | 0 18 | 21 26 | 1 31 | 13 46 | 13 18 | 4 25 | 5 22 | 1 51 |
| W30 | 21s43 | 19n24 | 4s 4 | 19s33 | 0n19 | 17s14 | 1n 4 | 17n42 | 2n31 | 3s34 | 1s25 | 21n47 | 1s26 | 2n37 | 0s42 | 16s17 | 0s18 | 21n26 | 1s31 | 13s44 | 13s17 | 4n23 | 5n22 | 1n51 |

Julian Day Number = 2334241.5, Delta T = 24.33 sec
Ecliptic obliquity = 23°28'44, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'26, Lahiri = 19°22'26Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1678
# geocentric

## DECEMBER 1678 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 40 36 | 9♐15'03 | 10♋56 | 0♐ 4 | 23♏ 8 | 18♌44 | 24♓21 | 21°R34 | 8°R12 | 16♒15 | 11°R52 | 6°R30 | 5♏ 9 | 8♍41 | 9°R13 | T 1 |
| F 2 | 4 44 33 | 10°15'58 | 23°32 | 1°38 | 24°23 | 18°57 | 24°23 | 21♊29 | 8♈11 | 16°16 | 11♋51 | 6♏24 | 5° 5 | 8°47 | 9♈12 | F 2 |
| S 3 | 4 48 29 | 11°16'55 | 5♌52 | 3°11 | 25°39 | 19°11 | 24°26 | 21°24 | 8°10 | 16°17 | 11°50 | 6°19 | 5° 2 | 8°54 | 9°11 | S 3 |
| S 4 | 4 52 26 | 12°17'52 | 17°59 | 4°45 | 26°54 | 19°23 | 24°29 | 21°19 | 8°10 | 16°19 | 11°49 | 6°14 | 4°59 | 9° 1 | 9°10 | S 4 |
| M 5 | 4 56 22 | 13°18'51 | 29°55 | 6°18 | 28° 9 | 19°35 | 24°32 | 21°14 | 8° 9 | 16°20 | 11°48 | 6°11 | 4°56 | 9° 7 | 9° 9 | M 5 |
| T 6 | 5 0 19 | 14°19'51 | 11♍47 | 7°52 | 29°25 | 19°46 | 24°36 | 21°10 | 8° 8 | 16°21 | 11°47 | 6°D10 | 4°53 | 9°14 | 9° 8 | T 6 |
| W 7 | 5 4 16 | 15°20'52 | 23°38 | 9°26 | 0♐40 | 19°57 | 24°39 | 21° 5 | 8° 8 | 16°22 | 11°45 | 6°11 | 4°49 | 9°21 | 9° 7 | W 7 |
| T 8 | 5 8 12 | 16°21'54 | 5♎34 | 10°59 | 1°55 | 20° 7 | 24°43 | 21° 0 | 8° 7 | 16°24 | 11°44 | 6°12 | 4°46 | 9°27 | 9° 7 | T 8 |
| F 9 | 5 12 9 | 17°22'57 | 17°39 | 12°33 | 3°11 | 20°17 | 24°47 | 20°55 | 8° 7 | 16°25 | 11°43 | 6°14 | 4°43 | 9°34 | 9° 6 | F 9 |
| S 10 | 5 16 5 | 18°24'00 | 29°59 | 14° 7 | 4°26 | 20°26 | 24°51 | 20°50 | 8° 7 | 16°26 | 11°42 | 6°R15 | 4°40 | 9°41 | 9° 5 | S 10 |
| S 11 | 5 20 2 | 19°25'05 | 12♏37 | 15°41 | 5°42 | 20°34 | 24°55 | 20°45 | 8° 6 | 16°28 | 11°41 | 6°15 | 4°37 | 9°48 | 9° 5 | S 11 |
| M12 | 5 23 58 | 20°26'11 | 25°37 | 17°15 | 6°57 | 20°41 | 25° 0 | 20°40 | 8° 6 | 16°29 | 11°40 | 6°13 | 4°34 | 9°54 | 9° 4 | M12 |
| T 13 | 5 27 55 | 21°27'18 | 8♐58 | 18°50 | 8°13 | 20°48 | 25° 5 | 20°35 | 8° 6 | 16°31 | 11°39 | 6° 9 | 4°30 | 10° 1 | 9° 4 | T 13 |
| W14 | 5 31 51 | 22°28'25 | 22°41 | 20°24 | 9°28 | 20°55 | 25°10 | 20°30 | 8° 5 | 16°32 | 11°37 | 6° 3 | 4°27 | 10° 8 | 9° 3 | W14 |
| T 15 | 5 35 48 | 23°29'33 | 6♑41 | 21°59 | 10°43 | 21° 0 | 25°15 | 20°25 | 8° 5 | 16°34 | 11°36 | 5°55 | 4°24 | 10°14 | 9° 3 | T 15 |
| F 16 | 5 39 45 | 24°30'41 | 20°56 | 23°34 | 11°59 | 21° 5 | 25°20 | 20°20 | 8° 5 | 16°35 | 11°35 | 5°47 | 4°21 | 10°21 | 9° 3 | F 16 |
| S 17 | 5 43 41 | 25°31'50 | 5♒18 | 25° 9 | 13°14 | 21° 9 | 25°25 | 20°15 | 8°D 5 | 16°37 | 11°34 | 5°39 | 4°18 | 10°28 | 9° 3 | S 17 |
| S 18 | 5 47 38 | 26°32'59 | 19°43 | 26°44 | 14°30 | 21°12 | 25°31 | 20°10 | 8° 5 | 16°38 | 11°33 | 5°32 | 4°15 | 10°34 | 9° 3 | S 18 |
| M19 | 5 51 34 | 27°34'08 | 4♓ 5 | 28°19 | 15°45 | 21°15 | 25°37 | 20° 5 | 8° 5 | 16°40 | 11°31 | 5°27 | 4°11 | 10°41 | 9° 3 | M19 |
| T 20 | 5 55 31 | 28°35'16 | 18°20 | 29°55 | 17° 1 | 21°17 | 25°43 | 20° 0 | 8° 5 | 16°42 | 11°30 | 5°25 | 4° 8 | 10°48 | 9°D 2 | T 20 |
| W21 | 5 59 27 | 29°36'25 | 2♈26 | 1♑30 | 18°16 | 21°18 | 25°49 | 19°56 | 8° 6 | 16°43 | 11°29 | 5°D25 | 4° 5 | 10°55 | 9° 3 | W21 |
| T 22 | 6 3 24 | 0♑37'34 | 16°22 | 3° 7 | 19°32 | 21°R18 | 25°55 | 19°51 | 8° 6 | 16°45 | 11°28 | 5°25 | 4° 2 | 11° 1 | 9° 3 | T 22 |
| F 23 | 6 7 20 | 1°38'43 | 0♉ 8 | 4°43 | 20°47 | 21°17 | 26° 2 | 19°46 | 8° 6 | 16°47 | 11°27 | 5°R26 | 3°59 | 11° 8 | 9° 3 | F 23 |
| S 24 | 6 11 17 | 2°39'52 | 13°44 | 6°20 | 22° 3 | 21°16 | 26° 9 | 19°41 | 8° 7 | 16°49 | 11°25 | 5°26 | 3°55 | 11°15 | 9° 3 | S 24 |
| S 25 | 6 15 14 | 3°41'01 | 27°11 | 7°56 | 23°18 | 21°14 | 26°15 | 19°36 | 8° 7 | 16°50 | 11°24 | 5°24 | 3°52 | 11°21 | 9° 3 | S 25 |
| M26 | 6 19 10 | 4°42'10 | 10♊27 | 9°34 | 24°33 | 21°11 | 26°22 | 19°32 | 8° 7 | 16°52 | 11°23 | 5°19 | 3°49 | 11°28 | 9° 4 | M26 |
| T 27 | 6 23 7 | 5°43'19 | 23°32 | 11°11 | 25°49 | 21° 8 | 26°30 | 19°27 | 8° 8 | 16°54 | 11°22 | 5°11 | 3°46 | 11°35 | 9° 4 | T 27 |
| W28 | 6 27 3 | 6°44'28 | 6♋26 | 12°49 | 27° 4 | 21° 3 | 26°37 | 19°22 | 8° 8 | 16°56 | 11°20 | 5° 1 | 3°43 | 11°41 | 9° 4 | W28 |
| T 29 | 6 31 0 | 7°45'36 | 19° 6 | 14°27 | 28°20 | 20°58 | 26°44 | 19°18 | 8° 9 | 16°58 | 11°19 | 4°49 | 3°40 | 11°48 | 9° 5 | T 29 |
| F 30 | 6 34 56 | 8°46'45 | 1♌34 | 16° 5 | 29°35 | 20°52 | 26°52 | 19°13 | 8°10 | 17° 0 | 11°18 | 4°37 | 3°36 | 11°55 | 9° 6 | F 30 |
| S 31 | 6 38 53 | 9♑47'54 | 13♌49 | 17♑44 | 0♑51 | 20♌45 | 27♓ 0 | 19♊ 9 | 8♈10 | 17♒ 1 | 11♋17 | 4♏25 | 3♏33 | 12♍ 1 | 9♈ 6 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s52 | 18n21 | 4s41 | 20s 0 | 0n12 | 17s35 | 1n 2 | 17n40 | 2n33 | 3s33 | 1s25 | 21n47 | 1s26 | 2n37 | 0s42 | 16s17 | 0s18 | 21n26 | 1s31 | 13s42 | 13s15 | 4n21 | 5n21 | 1n51 |
| F 2 | 22 2 | 16 26 | 5 4 | 20 27 | 0 5 | 17 56 | 1 0 | 17 37 | 2 35 | 3 32 | 1 25 | 21 47 | 1 26 | 2 37 | 0 42 | 16 16 | 0 18 | 21 26 | 1 31 | 13 41 | 13 14 | 4 19 | 5 21 | 1 51 |
| S 3 | 22 10 | 13 48 | 5 11 | 20 52 | 0s 2 | 18 16 | 0 58 | 17 35 | 2 38 | 3 31 | 1 25 | 21 46 | 1 26 | 2 36 | 0 42 | 16 16 | 0 18 | 21 26 | 1 31 | 13 39 | 13 13 | 4 17 | 5 20 | 1 51 |
| S 4 | 22 18 | 10 38 | 5 5 | 21 16 | 0 9 | 18 35 | 0 56 | 17 34 | 2 40 | 3 29 | 1 24 | 21 46 | 1 26 | 2 36 | 0 42 | 16 16 | 0 18 | 21 26 | 1 31 | 13 37 | 13 12 | 4 15 | 5 20 | 1 50 |
| M 5 | 22 26 | 7 4 | 4 45 | 21 39 | 0 16 | 18 54 | 0 54 | 17 32 | 2 42 | 3 28 | 1 24 | 21 46 | 1 26 | 2 36 | 0 42 | 16 15 | 0 18 | 21 27 | 1 31 | 13 36 | 13 11 | 4 13 | 5 19 | 1 50 |
| T 6 | 22 33 | 3 15 | 4 14 | 22 1 | 0 22 | 19 13 | 0 52 | 17 30 | 2 44 | 3 26 | 1 24 | 21 46 | 1 25 | 2 36 | 0 42 | 16 15 | 0 18 | 21 27 | 1 31 | 13 36 | 13 10 | 4 11 | 5 19 | 1 50 |
| W 7 | 22 40 | 0s42 | 3 31 | 22 23 | 0 29 | 19 31 | 0 50 | 17 29 | 2 47 | 3 24 | 1 24 | 21 45 | 1 25 | 2 36 | 0 42 | 16 15 | 0 18 | 21 27 | 1 31 | 13 36 | 13 9 | 4 9 | 5 18 | 1 50 |
| T 8 | 22 47 | 4 39 | 2 39 | 22 43 | 0 35 | 19 48 | 0 47 | 17 28 | 2 49 | 3 23 | 1 23 | 21 45 | 1 25 | 2 35 | 0 42 | 16 14 | 0 18 | 21 27 | 1 31 | 13 37 | 13 8 | 4 7 | 5 18 | 1 50 |
| F 9 | 22 53 | 8 28 | 1 39 | 23 2 | 0 42 | 20 5 | 0 45 | 17 27 | 2 51 | 3 21 | 1 23 | 21 45 | 1 25 | 2 35 | 0 42 | 16 14 | 0 18 | 21 27 | 1 31 | 13 37 | 13 7 | 4 5 | 5 17 | 1 50 |
| S 10 | 22 58 | 12 1 | 0 34 | 23 19 | 0 48 | 20 22 | 0 43 | 17 27 | 2 53 | 3 19 | 1 23 | 21 45 | 1 25 | 2 35 | 0 41 | 16 13 | 0 18 | 21 27 | 1 31 | 13 38 | 13 6 | 4 3 | 5 17 | 1 49 |
| S 11 | 23 3 | 15 6 | 0n35 | 23 36 | 0 54 | 20 37 | 0 41 | 17 26 | 2 56 | 3 17 | 1 22 | 21 44 | 1 25 | 2 35 | 0 41 | 16 13 | 0 18 | 21 27 | 1 31 | 13 38 | 13 5 | 4 1 | 5 17 | 1 49 |
| M12 | 23 8 | 17 32 | 1 43 | 23 51 | 1 0 | 20 53 | 0 38 | 17 26 | 2 58 | 3 15 | 1 22 | 21 44 | 1 25 | 2 35 | 0 41 | 16 12 | 0 18 | 21 28 | 1 31 | 13 37 | 13 4 | 3 59 | 5 16 | 1 49 |
| T 13 | 23 12 | 19 4 | 2 47 | 24 6 | 1 5 | 21 7 | 0 36 | 17 26 | 3 1 | 3 13 | 1 22 | 21 44 | 1 25 | 2 35 | 0 41 | 16 12 | 0 18 | 21 28 | 1 31 | 13 36 | 13 3 | 3 57 | 5 16 | 1 49 |
| W14 | 23 16 | 19 33 | 3 44 | 24 19 | 1 11 | 21 21 | 0 34 | 17 26 | 3 3 | 3 10 | 1 22 | 21 44 | 1 25 | 2 35 | 0 41 | 16 12 | 0 18 | 21 28 | 1 31 | 13 34 | 13 2 | 3 54 | 5 16 | 1 49 |
| T 15 | 23 19 | 18 51 | 4 28 | 24 30 | 1 16 | 21 34 | 0 31 | 17 27 | 3 5 | 3 8 | 1 21 | 21 43 | 1 25 | 2 35 | 0 41 | 16 11 | 0 18 | 21 28 | 1 31 | 13 31 | 13 0 | 3 52 | 5 15 | 1 48 |
| F 16 | 23 22 | 16 57 | 4 57 | 24 41 | 1 21 | 21 47 | 0 29 | 17 27 | 3 8 | 3 6 | 1 21 | 21 43 | 1 25 | 2 35 | 0 41 | 16 11 | 0 18 | 21 28 | 1 31 | 13 28 | 12 59 | 3 50 | 5 15 | 1 48 |
| S 17 | 23 24 | 14 1 | 5 7 | 24 50 | 1 26 | 21 59 | 0 27 | 17 28 | 3 10 | 3 3 | 1 21 | 21 43 | 1 24 | 2 35 | 0 41 | 16 10 | 0 18 | 21 28 | 1 31 | 13 26 | 12 58 | 3 48 | 5 15 | 1 48 |
| S 18 | 23 26 | 10 13 | 4 58 | 24 57 | 1 31 | 22 11 | 0 24 | 17 30 | 3 13 | 3 1 | 1 21 | 21 43 | 1 24 | 2 35 | 0 41 | 16 10 | 0 18 | 21 28 | 1 30 | 13 23 | 12 57 | 3 46 | 5 15 | 1 48 |
| M19 | 23 27 | 5 50 | 4 30 | 25 4 | 1 36 | 22 21 | 0 22 | 17 31 | 3 15 | 2 58 | 1 20 | 21 42 | 1 24 | 2 35 | 0 41 | 16 9 | 0 18 | 21 29 | 1 30 | 13 22 | 12 56 | 3 44 | 5 14 | 1 48 |
| T 20 | 23 28 | 1 10 | 3 45 | 25 9 | 1 40 | 22 31 | 0 19 | 17 33 | 3 17 | 2 56 | 1 20 | 21 42 | 1 24 | 2 35 | 0 41 | 16 9 | 0 18 | 21 29 | 1 30 | 13 21 | 12 55 | 3 42 | 5 14 | 1 48 |
| W21 | 23 29 | 3n32 | 2 48 | 25 12 | 1 44 | 22 41 | 0 17 | 17 35 | 3 20 | 2 53 | 1 20 | 21 42 | 1 24 | 2 35 | 0 41 | 16 8 | 0 18 | 21 29 | 1 30 | 13 21 | 12 54 | 3 40 | 5 14 | 1 47 |
| T 22 | 23 29 | 8 0 | 1 40 | 25 14 | 1 48 | 22 49 | 0 14 | 17 37 | 3 22 | 2 50 | 1 19 | 21 42 | 1 24 | 2 35 | 0 41 | 16 8 | 0 18 | 21 29 | 1 30 | 13 21 | 12 53 | 3 38 | 5 14 | 1 47 |
| F 23 | 23 28 | 11 59 | 0 28 | 25 15 | 1 51 | 22 57 | 0 12 | 17 39 | 3 25 | 2 47 | 1 19 | 21 42 | 1 24 | 2 36 | 0 41 | 16 7 | 0 18 | 21 29 | 1 30 | 13 21 | 12 52 | 3 36 | 5 14 | 1 47 |
| S 24 | 23 27 | 15 17 | 0s44 | 25 14 | 1 54 | 23 5 | 0 10 | 17 42 | 3 27 | 2 45 | 1 19 | 21 41 | 1 24 | 2 36 | 0 41 | 16 7 | 0 18 | 21 29 | 1 30 | 13 21 | 12 51 | 3 34 | 5 14 | 1 47 |
| S 25 | 23 26 | 17 43 | 1 54 | 25 12 | 1 57 | 23 11 | 0 7 | 17 45 | 3 30 | 2 42 | 1 19 | 21 41 | 1 23 | 2 36 | 0 41 | 16 6 | 0 18 | 21 30 | 1 30 | 13 20 | 12 50 | 3 32 | 5 14 | 1 47 |
| M26 | 23 24 | 19 9 | 2 56 | 25 8 | 2 0 | 23 17 | 0 5 | 17 48 | 3 32 | 2 39 | 1 18 | 21 41 | 1 23 | 2 36 | 0 41 | 16 6 | 0 18 | 21 30 | 1 30 | 13 19 | 12 49 | 3 30 | 5 14 | 1 47 |
| T 27 | 23 21 | 19 32 | 3 47 | 25 2 | 2 2 | 23 23 | 0 2 | 17 52 | 3 35 | 2 36 | 1 18 | 21 41 | 1 23 | 2 36 | 0 41 | 16 5 | 0 18 | 21 30 | 1 30 | 13 16 | 12 48 | 3 28 | 5 14 | 1 46 |
| W28 | 23 18 | 18 53 | 4 26 | 24 55 | 2 4 | 23 27 | 0s 0 | 17 56 | 3 37 | 2 32 | 1 18 | 21 40 | 1 23 | 2 37 | 0 41 | 16 5 | 0 18 | 21 30 | 1 30 | 13 13 | 12 47 | 3 26 | 5 14 | 1 46 |
| T 29 | 23 15 | 17 18 | 4 52 | 24 47 | 2 6 | 23 31 | 0 3 | 18 0 | 3 40 | 2 29 | 1 18 | 21 40 | 1 23 | 2 37 | 0 41 | 16 4 | 0 18 | 21 30 | 1 30 | 13 9 | 12 45 | 3 24 | 5 14 | 1 46 |
| F 30 | 23 11 | 14 56 | 5 2 | 24 36 | 2 7 | 23 34 | 0 5 | 18 4 | 3 42 | 2 26 | 1 18 | 21 40 | 1 23 | 2 37 | 0 41 | 16 3 | 0 18 | 21 30 | 1 30 | 13 5 | 12 44 | 3 22 | 5 14 | 1 46 |
| S 31 | 23s 7 | 11n56 | 4s59 | 24s25 | 2s 8 | 23s36 | 0s 8 | 18n 8 | 3n44 | 2s23 | 1s17 | 21n40 | 1s23 | 2n37 | 0s41 | 16s 3 | 0s18 | 21n31 | 1s30 | 13s 1 | 12s43 | 3n20 | 5n14 | 1n46 |

Julian Day Number = 2334271.5, Delta T = 24.28 sec
Ecliptic obliquity = 23°28'44, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'30, Lahiri = 19°22'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## JANUARY 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 42 49 | 10♉49'03 | 25♌53 | 19♉23 | 2♉ 6 | 20°R38 | 27♓ 8 | 19°R 4 | 8♈11 | 17♒ 3 | 11°R15 | 4°R15 | 3♏30 | 12♍ 8 | 9♈ 7 | S 1 |
| M 2 | 6 46 46 | 11°50'12 | 7♍49 | 21° 1 | 3°22 | 20♌29 | 27°16 | 19♊ 0 | 8°12 | 17° 5 | 11♋14 | 4♏ 7 | 3°27 | 12°15 | 9° 8 | M 2 |
| T 3 | 6 50 43 | 12°51'21 | 19°39 | 22°41 | 4°37 | 20°20 | 27°24 | 18°56 | 8°13 | 17° 7 | 11°13 | 4° 2 | 3°24 | 12°22 | 9° 8 | T 3 |
| W 4 | 6 54 39 | 13°52'30 | 1♎28 | 24°20 | 5°52 | 20°10 | 27°33 | 18°51 | 8°14 | 17° 9 | 11°11 | 3°59 | 3°21 | 12°28 | 9° 9 | W 4 |
| T 5 | 6 58 36 | 14°53'39 | 13°21 | 25°59 | 7° 8 | 19°59 | 27°41 | 18°47 | 8°15 | 17°11 | 11°10 | 3°D58 | 3°17 | 12°35 | 9°10 | T 5 |
| F 6 | 7 2 32 | 15°54'48 | 25°24 | 27°38 | 8°23 | 19°47 | 27°50 | 18°43 | 8°16 | 17°13 | 11° 9 | 3°58 | 3°14 | 12°42 | 9°11 | F 6 |
| S 7 | 7 6 29 | 16°55'57 | 7♏42 | 29°17 | 9°39 | 19°34 | 27°59 | 18°39 | 8°17 | 17°15 | 11° 8 | 3°R58 | 3°11 | 12°48 | 9°12 | S 7 |
| S 8 | 7 10 25 | 17°57'06 | 20°20 | 0♒55 | 10°54 | 19°21 | 28° 8 | 18°35 | 8°18 | 17°17 | 11° 6 | 3°57 | 3° 8 | 12°55 | 9°13 | S 8 |
| M 9 | 7 14 22 | 18°58'15 | 3♐22 | 2°33 | 12°10 | 19° 7 | 28°17 | 18°31 | 8°19 | 17°19 | 11° 5 | 3°54 | 3° 5 | 13° 2 | 9°14 | M 9 |
| T 10 | 7 18 18 | 19°59'24 | 16°51 | 4°11 | 13°25 | 18°52 | 28°26 | 18°27 | 8°20 | 17°21 | 11° 4 | 3°48 | 3° 1 | 13° 8 | 9°15 | T 10 |
| W11 | 7 22 15 | 21° 0'32 | 0♉48 | 5°47 | 14°41 | 18°37 | 28°35 | 18°23 | 8°21 | 17°23 | 11° 3 | 3°39 | 2°58 | 13°15 | 9°17 | W11 |
| T 12 | 7 26 12 | 22° 1'40 | 15° 8 | 7°23 | 15°56 | 18°20 | 28°45 | 18°20 | 8°23 | 17°26 | 11° 1 | 3°28 | 2°55 | 13°22 | 9°18 | T 12 |
| F 13 | 7 30 8 | 23° 2'48 | 29°48 | 8°57 | 17°11 | 18° 3 | 28°54 | 18°16 | 8°24 | 17°28 | 11° 0 | 3°16 | 2°52 | 13°28 | 9°19 | F 13 |
| S 14 | 7 34 5 | 24° 3'55 | 14♒39 | 10°29 | 18°27 | 17°45 | 29° 4 | 18°12 | 8°26 | 17°30 | 10°59 | 3° 4 | 2°49 | 13°35 | 9°21 | S 14 |
| S 15 | 7 38 1 | 25° 5'01 | 29°31 | 11°59 | 19°42 | 17°27 | 29°14 | 18° 9 | 8°27 | 17°32 | 10°58 | 2°54 | 2°46 | 13°42 | 9°22 | S 15 |
| M16 | 7 41 58 | 26° 6'06 | 14♓17 | 13°26 | 20°58 | 17° 8 | 29°24 | 18° 6 | 8°28 | 17°34 | 10°57 | 2°46 | 2°42 | 13°49 | 9°24 | M16 |
| T 17 | 7 45 54 | 27° 7'10 | 28°50 | 14°50 | 22°13 | 16°48 | 29°34 | 18° 2 | 8°30 | 17°36 | 10°55 | 2°41 | 2°39 | 13°55 | 9°25 | T 17 |
| W18 | 7 49 51 | 28° 8'13 | 13♈ 6 | 16°10 | 23°28 | 16°28 | 29°44 | 17°59 | 8°32 | 17°38 | 10°54 | 2°39 | 2°36 | 14° 2 | 9°27 | W18 |
| T 19 | 7 53 47 | 29° 9'16 | 27° 3 | 17°26 | 24°44 | 16° 8 | 29°55 | 17°56 | 8°33 | 17°41 | 10°53 | 2°39 | 2°33 | 14° 9 | 9°28 | T 19 |
| F 20 | 7 57 44 | 0♒10'17 | 10♉43 | 18°37 | 25°59 | 15°46 | 0♈ 5 | 17°53 | 8°35 | 17°43 | 10°52 | 2°39 | 2°30 | 14°15 | 9°30 | F 20 |
| S 21 | 8 1 41 | 1°11'17 | 24° 5 | 19°41 | 27°15 | 15°25 | 0°16 | 17°50 | 8°37 | 17°45 | 10°51 | 2°38 | 2°26 | 14°22 | 9°32 | S 21 |
| S 22 | 8 5 37 | 2°12'16 | 7♊13 | 20°39 | 28°30 | 15° 3 | 0°26 | 17°47 | 8°38 | 17°47 | 10°49 | 2°35 | 2°23 | 14°29 | 9°34 | S 22 |
| M23 | 8 9 34 | 3°13'13 | 20° 9 | 21°29 | 29°45 | 14°40 | 0°37 | 17°45 | 8°40 | 17°49 | 10°48 | 2°28 | 2°20 | 14°35 | 9°36 | M23 |
| T 24 | 8 13 30 | 4°14'10 | 2♋53 | 22°11 | 1♒ 1 | 14°17 | 0°48 | 17°42 | 8°42 | 17°52 | 10°47 | 2°19 | 2°17 | 14°42 | 9°37 | T 24 |
| W25 | 8 17 27 | 5°15'05 | 15°27 | 22°44 | 2°16 | 13°54 | 0°59 | 17°39 | 8°44 | 17°54 | 10°46 | 2° 7 | 2°14 | 14°49 | 9°39 | W25 |
| T 26 | 8 21 23 | 6°16'00 | 27°51 | 23° 7 | 3°31 | 13°31 | 1°10 | 17°37 | 8°46 | 17°56 | 10°45 | 1°53 | 2°11 | 14°55 | 9°41 | T 26 |
| F 27 | 8 25 20 | 7°16'53 | 10♌ 6 | 23°19 | 4°47 | 13° 7 | 1°22 | 17°35 | 8°48 | 17°58 | 10°44 | 1°39 | 2° 7 | 15° 2 | 9°43 | F 27 |
| S 28 | 8 29 16 | 8°17'45 | 22°13 | 23°R20 | 6° 2 | 12°44 | 1°33 | 17°32 | 8°50 | 18° 1 | 10°43 | 1°24 | 2° 4 | 15° 9 | 9°46 | S 28 |
| S 29 | 8 33 13 | 9°18'36 | 4♍11 | 23°10 | 7°17 | 12°20 | 1°44 | 17°30 | 8°52 | 18° 3 | 10°42 | 1°12 | 2° 1 | 15°15 | 9°48 | S 29 |
| M30 | 8 37 10 | 10°19'27 | 16° 4 | 22°49 | 8°32 | 11°56 | 1°56 | 17°28 | 8°54 | 18° 5 | 10°40 | 1° 2 | 1°58 | 15°22 | 9°50 | M30 |
| T 31 | 8 41 6 | 11♒20'16 | 27♍53 | 22♒17 | 9♒48 | 11♌32 | 2♈ 7 | 17♊26 | 8♈56 | 18♒ 7 | 10♋39 | 0♏54 | 1♏55 | 15♍29 | 9♈52 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 2 | 8n29 | 4s42 | 24s11 | 2s 8 | 23s38 | 0s10 | 18n13 | 3n47 | 2s19 | 1s17 | 21n40 | 1s22 | 2n38 | 0s41 | 16s 2 | 0s18 | 21n31 | 1s30 | 12s57 | 12s42 | 3n18 | 5n14 | 1n45 |
| M 2 | 22 57 | 4 45 | 4 13 | 23 56 | 2 8 | 23 38 | 0 12 | 18 18 | 3 49 | 2 16 | 1 17 | 21 39 | 1 22 | 2 38 | 0 41 | 16 2 | 0 18 | 21 31 | 1 30 | 12 55 | 12 41 | 3 16 | 5 14 | 1 45 |
| T 3 | 22 51 | 0 51 | 3 33 | 23 40 | 2 7 | 23 39 | 0 15 | 18 23 | 3 52 | 2 12 | 1 17 | 21 39 | 1 22 | 2 39 | 0 41 | 16 1 | 0 18 | 21 31 | 1 30 | 12 53 | 12 40 | 3 14 | 5 14 | 1 45 |
| W 4 | 22 45 | 3s 5 | 2 44 | 23 21 | 2 6 | 23 38 | 0 17 | 18 29 | 3 54 | 2 9 | 1 16 | 21 39 | 1 22 | 2 39 | 0 40 | 16 0 | 0 18 | 21 31 | 1 30 | 12 52 | 12 39 | 3 12 | 5 14 | 1 45 |
| T 5 | 22 39 | 6 56 | 1 47 | 23 1 | 2 5 | 23 37 | 0 19 | 18 35 | 3 56 | 2 5 | 1 16 | 21 39 | 1 22 | 2 39 | 0 40 | 16 0 | 0 18 | 21 31 | 1 29 | 12 52 | 12 38 | 3 10 | 5 15 | 1 45 |
| F 6 | 22 32 | 10 33 | 0 45 | 22 40 | 2 2 | 23 35 | 0 22 | 18 41 | 3 58 | 2 1 | 1 16 | 21 39 | 1 22 | 2 40 | 0 40 | 15 59 | 0 18 | 21 32 | 1 29 | 12 52 | 12 37 | 3 8 | 5 15 | 1 45 |
| S 7 | 22 24 | 13 47 | 0n20 | 22 17 | 2 0 | 23 32 | 0 24 | 18 47 | 4 1 | 1 58 | 1 16 | 21 38 | 1 21 | 2 40 | 0 40 | 15 59 | 0 18 | 21 32 | 1 29 | 12 52 | 12 36 | 3 6 | 5 15 | 1 44 |
| S 8 | 22 16 | 16 29 | 1 26 | 21 52 | 1 56 | 23 28 | 0 26 | 18 53 | 4 3 | 1 54 | 1 15 | 21 38 | 1 21 | 2 41 | 0 40 | 15 58 | 0 18 | 21 32 | 1 29 | 12 51 | 12 35 | 3 4 | 5 15 | 1 44 |
| M 9 | 22 8 | 18 25 | 2 29 | 21 26 | 1 52 | 23 24 | 0 29 | 18 59 | 4 5 | 1 50 | 1 15 | 21 38 | 1 21 | 2 41 | 0 40 | 15 57 | 0 18 | 21 32 | 1 29 | 12 50 | 12 34 | 3 2 | 5 16 | 1 44 |
| T 10 | 21 59 | 19 24 | 3 26 | 20 59 | 1 47 | 23 19 | 0 31 | 19 6 | 4 7 | 1 46 | 1 15 | 21 38 | 1 21 | 2 42 | 0 40 | 15 57 | 0 18 | 21 32 | 1 29 | 12 48 | 12 32 | 3 0 | 5 16 | 1 44 |
| W11 | 21 50 | 19 15 | 4 13 | 20 30 | 1 42 | 23 13 | 0 33 | 19 13 | 4 9 | 1 42 | 1 15 | 21 38 | 1 21 | 2 42 | 0 40 | 15 56 | 0 18 | 21 32 | 1 29 | 12 45 | 12 31 | 2 58 | 5 16 | 1 44 |
| T 12 | 21 40 | 17 53 | 4 46 | 20 0 | 1 36 | 23 7 | 0 35 | 19 20 | 4 11 | 1 38 | 1 15 | 21 38 | 1 21 | 2 43 | 0 40 | 15 56 | 0 18 | 21 33 | 1 29 | 12 42 | 12 30 | 2 56 | 5 17 | 1 44 |
| F 13 | 21 30 | 15 20 | 5 0 | 19 29 | 1 29 | 22 59 | 0 38 | 19 27 | 4 13 | 1 34 | 1 14 | 21 38 | 1 20 | 2 43 | 0 40 | 15 55 | 0 18 | 21 33 | 1 29 | 12 37 | 12 29 | 2 54 | 5 17 | 1 43 |
| S 14 | 21 20 | 11 46 | 4 55 | 18 57 | 1 21 | 22 52 | 0 40 | 19 35 | 4 15 | 1 30 | 1 14 | 21 37 | 1 20 | 2 44 | 0 40 | 15 54 | 0 18 | 21 33 | 1 29 | 12 33 | 12 28 | 2 52 | 5 17 | 1 43 |
| S 15 | 21 9 | 7 27 | 4 29 | 18 23 | 1 13 | 22 43 | 0 42 | 19 42 | 4 17 | 1 26 | 1 14 | 21 37 | 1 20 | 2 45 | 0 40 | 15 54 | 0 18 | 21 33 | 1 29 | 12 30 | 12 27 | 2 50 | 5 18 | 1 43 |
| M16 | 20 58 | 2 43 | 3 46 | 17 49 | 1 3 | 22 34 | 0 44 | 19 49 | 4 18 | 1 22 | 1 14 | 21 37 | 1 20 | 2 45 | 0 40 | 15 53 | 0 18 | 21 33 | 1 29 | 12 27 | 12 26 | 2 48 | 5 18 | 1 43 |
| T 17 | 20 46 | 2n 7 | 2 48 | 17 15 | 0 53 | 22 24 | 0 46 | 19 57 | 4 20 | 1 18 | 1 14 | 21 37 | 1 20 | 2 46 | 0 40 | 15 52 | 0 18 | 21 33 | 1 29 | 12 26 | 12 25 | 2 46 | 5 19 | 1 43 |
| W18 | 20 34 | 6 44 | 1 41 | 16 41 | 0 41 | 22 13 | 0 48 | 20 5 | 4 22 | 1 14 | 1 13 | 21 37 | 1 19 | 2 46 | 0 40 | 15 52 | 0 18 | 21 34 | 1 29 | 12 25 | 12 24 | 2 44 | 5 19 | 1 43 |
| T 19 | 20 22 | 10 54 | 0 30 | 16 6 | 0 29 | 22 2 | 0 50 | 20 12 | 4 23 | 1 9 | 1 13 | 21 37 | 1 19 | 2 47 | 0 40 | 15 51 | 0 18 | 21 34 | 1 28 | 12 25 | 12 23 | 2 42 | 5 20 | 1 42 |
| F 20 | 20 9 | 14 23 | 0s43 | 15 32 | 0 16 | 21 50 | 0 52 | 20 20 | 4 24 | 1 5 | 1 13 | 21 37 | 1 19 | 2 48 | 0 40 | 15 50 | 0 18 | 21 34 | 1 28 | 12 25 | 12 22 | 2 40 | 5 20 | 1 42 |
| S 21 | 19 56 | 17 2 | 1 51 | 14 58 | 0 2 | 21 37 | 0 54 | 20 28 | 4 26 | 1 0 | 1 13 | 21 37 | 1 19 | 2 49 | 0 40 | 15 50 | 0 18 | 21 34 | 1 28 | 12 24 | 12 20 | 2 38 | 5 21 | 1 42 |
| S 22 | 19 42 | 18 44 | 2 52 | 14 26 | 0n13 | 21 24 | 0 55 | 20 36 | 4 27 | 0 56 | 1 13 | 21 37 | 1 19 | 2 49 | 0 40 | 15 49 | 0 18 | 21 34 | 1 28 | 12 23 | 12 19 | 2 36 | 5 21 | 1 42 |
| M23 | 19 28 | 19 25 | 3 43 | 13 55 | 0 28 | 21 10 | 0 57 | 20 43 | 4 28 | 0 52 | 1 12 | 21 37 | 1 18 | 2 50 | 0 40 | 15 48 | 0 18 | 21 34 | 1 28 | 12 21 | 12 18 | 2 34 | 5 22 | 1 42 |
| T 24 | 19 14 | 19 5 | 4 22 | 13 26 | 0 44 | 20 56 | 0 59 | 20 51 | 4 29 | 0 47 | 1 12 | 21 37 | 1 18 | 2 51 | 0 40 | 15 48 | 0 18 | 21 35 | 1 28 | 12 18 | 12 17 | 2 31 | 5 23 | 1 42 |
| W25 | 18 59 | 17 50 | 4 47 | 13 0 | 1 1 | 20 40 | 1 1 | 20 59 | 4 30 | 0 42 | 1 12 | 21 37 | 1 18 | 2 52 | 0 40 | 15 47 | 0 18 | 21 35 | 1 28 | 12 14 | 12 16 | 2 29 | 5 23 | 1 41 |
| T 26 | 18 44 | 15 44 | 4 59 | 12 36 | 1 18 | 20 25 | 1 2 | 21 7 | 4 31 | 0 38 | 1 12 | 21 37 | 1 18 | 2 52 | 0 40 | 15 46 | 0 18 | 21 35 | 1 28 | 12 9 | 12 15 | 2 27 | 5 24 | 1 41 |
| F 27 | 18 29 | 12 59 | 4 56 | 12 16 | 1 36 | 20 8 | 1 4 | 21 14 | 4 31 | 0 33 | 1 12 | 21 37 | 1 18 | 2 53 | 0 40 | 15 46 | 0 18 | 21 35 | 1 28 | 12 4 | 12 14 | 2 25 | 5 24 | 1 41 |
| S 28 | 18 13 | 9 42 | 4 41 | 11 59 | 1 53 | 19 51 | 1 6 | 21 21 | 4 32 | 0 29 | 1 11 | 21 37 | 1 17 | 2 54 | 0 40 | 15 45 | 0 18 | 21 35 | 1 28 | 11 59 | 12 13 | 2 23 | 5 25 | 1 41 |
| S 29 | 17 57 | 6 4 | 4 12 | 11 46 | 2 10 | 19 34 | 1 7 | 21 29 | 4 32 | 0 24 | 1 11 | 21 37 | 1 17 | 2 55 | 0 40 | 15 44 | 0 18 | 21 35 | 1 28 | 11 55 | 12 12 | 2 21 | 5 26 | 1 41 |
| M30 | 17 41 | 2 14 | 3 33 | 11 37 | 2 27 | 19 16 | 1 9 | 21 36 | 4 33 | 0 19 | 1 11 | 21 37 | 1 17 | 2 56 | 0 40 | 15 44 | 0 18 | 21 36 | 1 28 | 11 51 | 12 11 | 2 19 | 5 27 | 1 41 |
| T 31 | 17s24 | 1s41 | 2s45 | 11s32 | 2n43 | 18s57 | 1s10 | 21n43 | 4n33 | 0s14 | 1s11 | 21n37 | 1s17 | 2n57 | 0s40 | 15s43 | 0s18 | 21n36 | 1s28 | 11s49 | 12s 9 | 2n17 | 5n27 | 1n41 |

Julian Day Number = 2334302.5, Delta T = 24.23 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'34, Lahiri = 19°22'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## FEBRUARY 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 45 3 | 12♒21'04 | 9♎41 | 21°R35 | 11♒ 3 | 11°R 8 | 2♈19 | 17°R25 | 8♈58 | 18♒10 | 10°R38 | 0°R50 | 1♏52 | 15♍36 | 9♈54 | W 1 |
| T 2 | 8 48 59 | 13°21'51 | 21°33 | 20♒44 | 12°18 | 10♌44 | 2°31 | 17♊23 | 9° 1 | 18°12 | 10♋37 | 0♏48 | 1°48 | 15°42 | 9°57 | T 2 |
| F 3 | 8 52 56 | 14°22'37 | 3♏33 | 19°46 | 13°34 | 10°20 | 2°43 | 17°21 | 9° 3 | 18°14 | 10°36 | 0°D48 | 1°45 | 15°49 | 9°59 | F 3 |
| S 4 | 8 56 52 | 15°23'22 | 15°47 | 18°42 | 14°49 | 9°56 | 2°55 | 17°20 | 9° 5 | 18°16 | 10°35 | 0°R48 | 1°42 | 15°56 | 10° 2 | S 4 |
| S 5 | 9 0 49 | 16°24'06 | 28°21 | 17°33 | 16° 4 | 9°33 | 3° 7 | 17°18 | 9° 8 | 18°19 | 10°34 | 0°48 | 1°39 | 16° 2 | 10° 4 | S 5 |
| M 6 | 9 4 45 | 17°24'49 | 11♐19 | 16°23 | 17°19 | 9° 9 | 3°19 | 17°17 | 9°10 | 18°21 | 10°33 | 0°45 | 1°36 | 16° 9 | 10° 6 | M 6 |
| T 7 | 9 8 42 | 18°25'31 | 24°45 | 15°12 | 18°34 | 8°46 | 3°31 | 17°16 | 9°12 | 18°23 | 10°32 | 0°41 | 1°32 | 16°16 | 10° 9 | T 7 |
| W 8 | 9 12 39 | 19°26'12 | 8♑40 | 14° 3 | 19°50 | 8°24 | 3°44 | 17°15 | 9°15 | 18°26 | 10°31 | 0°33 | 1°29 | 16°22 | 10°12 | W 8 |
| T 9 | 9 16 35 | 20°26'52 | 23° 5 | 12°57 | 21° 5 | 8° 1 | 3°56 | 17°14 | 9°17 | 18°28 | 10°30 | 0°24 | 1°26 | 16°29 | 10°14 | T 9 |
| F 10 | 9 20 32 | 21°27'30 | 7♒55 | 11°56 | 22°20 | 7°40 | 4° 8 | 17°13 | 9°20 | 18°30 | 10°29 | 0°13 | 1°23 | 16°36 | 10°17 | F 10 |
| S 11 | 9 24 28 | 22°28'07 | 23° 1 | 11° 1 | 23°35 | 7°18 | 4°21 | 17°12 | 9°23 | 18°32 | 10°29 | 0° 2 | 1°20 | 16°42 | 10°20 | S 11 |
| S 12 | 9 28 25 | 23°28'42 | 8♓13 | 10°13 | 24°50 | 6°57 | 4°34 | 17°12 | 9°25 | 18°35 | 10°28 | 29♎53 | 1°17 | 16°49 | 10°22 | S 12 |
| M13 | 9 32 21 | 24°29'16 | 23°22 | 9°31 | 26° 6 | 6°37 | 4°46 | 17°11 | 9°28 | 18°37 | 10°27 | 29°46 | 1°13 | 16°56 | 10°25 | M13 |
| T 14 | 9 36 18 | 25°29'48 | 8♈16 | 8°58 | 27°21 | 6°17 | 4°59 | 17°11 | 9°30 | 18°39 | 10°26 | 29°42 | 1°10 | 17° 2 | 10°28 | T 14 |
| W15 | 9 40 14 | 26°30'18 | 22°50 | 8°32 | 28°36 | 5°57 | 5°12 | 17°11 | 9°33 | 18°41 | 10°25 | 29°40 | 1° 7 | 17° 9 | 10°31 | W15 |
| T 16 | 9 44 11 | 27°30'46 | 7♉ 1 | 8°13 | 29°51 | 5°39 | 5°25 | 17°11 | 9°36 | 18°44 | 10°24 | 29°D40 | 1° 4 | 17°16 | 10°34 | T 16 |
| F 17 | 9 48 8 | 28°31'13 | 20°47 | 8° 2 | 1♓ 6 | 5°21 | 5°38 | 17°D11 | 9°39 | 18°46 | 10°24 | 29°40 | 1° 1 | 17°22 | 10°36 | F 17 |
| S 18 | 9 52 4 | 29°31'37 | 4♊ 9 | 7°D58 | 2°21 | 5° 3 | 5°51 | 17°11 | 9°41 | 18°48 | 10°23 | 29°R41 | 0°58 | 17°29 | 10°39 | S 18 |
| S 19 | 9 56 1 | 0♓32'00 | 17°12 | 8° 1 | 3°36 | 4°46 | 6° 4 | 17°11 | 9°44 | 18°50 | 10°22 | 29°39 | 0°54 | 17°36 | 10°42 | S 19 |
| M20 | 9 59 57 | 1°32'21 | 29°57 | 8°10 | 4°51 | 4°30 | 6°17 | 17°11 | 9°47 | 18°53 | 10°21 | 29°35 | 0°51 | 17°43 | 10°45 | M20 |
| T 21 | 10 3 54 | 2°32'39 | 12♋29 | 8°25 | 6° 6 | 4°15 | 6°30 | 17°12 | 9°50 | 18°55 | 10°21 | 29°29 | 0°48 | 17°49 | 10°48 | T 21 |
| W22 | 10 7 50 | 3°32'56 | 24°48 | 8°46 | 7°21 | 4° 0 | 6°44 | 17°12 | 9°53 | 18°57 | 10°20 | 29°21 | 0°45 | 17°56 | 10°52 | W22 |
| T 23 | 10 11 47 | 4°33'11 | 6♌59 | 9°12 | 8°36 | 3°47 | 6°57 | 17°13 | 9°56 | 18°59 | 10°19 | 29°11 | 0°42 | 18° 3 | 10°55 | T 23 |
| F 24 | 10 15 43 | 5°33'23 | 19° 2 | 9°44 | 9°51 | 3°33 | 7°10 | 17°14 | 9°59 | 19° 2 | 10°19 | 29° 0 | 0°38 | 18° 9 | 10°58 | F 24 |
| S 25 | 10 19 40 | 6°33'34 | 1♍ 0 | 10°19 | 11° 6 | 3°21 | 7°24 | 17°15 | 10° 2 | 19° 4 | 10°18 | 28°49 | 0°35 | 18°16 | 11° 1 | S 25 |
| S 26 | 10 23 37 | 7°33'43 | 12°53 | 10°59 | 12°21 | 3°10 | 7°37 | 17°16 | 10° 5 | 19° 6 | 10°17 | 28°40 | 0°32 | 18°23 | 11° 4 | S 26 |
| M27 | 10 27 33 | 8°33'51 | 24°43 | 11°43 | 13°36 | 2°59 | 7°51 | 17°17 | 10° 8 | 19° 8 | 10°17 | 28°33 | 0°29 | 18°29 | 11° 7 | M27 |
| T 28 | 10 31 30 | 9♓33'56 | 6♎31 | 12♒31 | 14♓51 | 2♌49 | 8♈ 4 | 17♊18 | 10♈11 | 19♒10 | 10♋16 | 28♎28 | 0♏26 | 18♍36 | 11♈11 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s 7 | 5s31 | 1s50 | 11s32 | 2n57 | 18s38 | 1s11 | 21n50 | 4n33 | 0s10 | 1s11 | 21n37 | 1s16 | 2n58 | 0s39 | 15s42 | 0s18 | 21n36 | 1s27 | 11s47 | 12s 8 | 2n15 | 5n28 | 1n40 |
| T 2 | 16 50 | 9 10 | 0 49 | 11 36 | 3 10 | 18 18 | 1 13 | 21 57 | 4 33 | 0 5 | 1 11 | 21 37 | 1 16 | 2 58 | 0 39 | 15 41 | 0 18 | 21 36 | 1 27 | 11 46 | 12 7 | 2 13 | 5 29 | 1 40 |
| F 3 | 16 33 | 12 29 | 0n15 | 11 44 | 3 21 | 17 58 | 1 14 | 22 3 | 4 33 | 0n 0 | 1 10 | 21 37 | 1 16 | 2 59 | 0 39 | 15 41 | 0 18 | 21 36 | 1 27 | 11 46 | 12 6 | 2 11 | 5 30 | 1 40 |
| S 4 | 16 15 | 15 20 | 1 19 | 11 55 | 3 30 | 17 37 | 1 15 | 22 10 | 4 33 | 0 5 | 1 10 | 21 37 | 1 16 | 3 0 | 0 39 | 15 40 | 0 18 | 21 36 | 1 27 | 11 46 | 12 5 | 2 9 | 5 30 | 1 40 |
| S 5 | 15 57 | 17 32 | 2 21 | 12 9 | 3 37 | 17 16 | 1 16 | 22 16 | 4 32 | 0 10 | 1 10 | 21 37 | 1 16 | 3 1 | 0 39 | 15 39 | 0 18 | 21 37 | 1 27 | 11 46 | 12 4 | 2 7 | 5 31 | 1 40 |
| M 6 | 15 38 | 18 55 | 3 18 | 12 26 | 3 41 | 16 54 | 1 17 | 22 22 | 4 32 | 0 15 | 1 10 | 21 37 | 1 15 | 3 2 | 0 39 | 15 39 | 0 18 | 21 37 | 1 27 | 11 45 | 12 3 | 2 5 | 5 32 | 1 40 |
| T 7 | 15 20 | 19 17 | 4 6 | 12 45 | 3 43 | 16 31 | 1 18 | 22 27 | 4 32 | 0 20 | 1 10 | 21 37 | 1 15 | 3 3 | 0 39 | 15 38 | 0 18 | 21 37 | 1 27 | 11 44 | 12 2 | 2 3 | 5 33 | 1 39 |
| W 8 | 15 1 | 18 31 | 4 41 | 13 5 | 3 43 | 16 9 | 1 19 | 22 33 | 4 31 | 0 25 | 1 10 | 21 37 | 1 15 | 3 4 | 0 39 | 15 37 | 0 18 | 21 37 | 1 27 | 11 41 | 12 1 | 2 1 | 5 34 | 1 39 |
| T 9 | 14 42 | 16 34 | 5 0 | 13 26 | 3 40 | 15 46 | 1 20 | 22 38 | 4 30 | 0 30 | 1 10 | 21 38 | 1 15 | 3 5 | 0 39 | 15 37 | 0 18 | 21 37 | 1 27 | 11 38 | 12 0 | 1 59 | 5 35 | 1 39 |
| F 10 | 14 22 | 13 29 | 5 0 | 13 48 | 3 35 | 15 22 | 1 21 | 22 43 | 4 29 | 0 35 | 1 9 | 21 38 | 1 14 | 3 6 | 0 39 | 15 36 | 0 18 | 21 37 | 1 27 | 11 34 | 11 58 | 1 57 | 5 36 | 1 39 |
| S 11 | 14 3 | 9 28 | 4 39 | 14 9 | 3 29 | 14 58 | 1 22 | 22 48 | 4 28 | 0 40 | 1 9 | 21 38 | 1 14 | 3 7 | 0 39 | 15 35 | 0 18 | 21 37 | 1 27 | 11 30 | 11 57 | 1 55 | 5 37 | 1 39 |
| S 12 | 13 43 | 4 49 | 3 58 | 14 30 | 3 20 | 14 34 | 1 23 | 22 52 | 4 27 | 0 45 | 1 9 | 21 38 | 1 14 | 3 8 | 0 39 | 15 35 | 0 18 | 21 38 | 1 27 | 11 27 | 11 56 | 1 53 | 5 38 | 1 39 |
| M13 | 13 23 | 0n 7 | 3 1 | 14 50 | 3 11 | 14 9 | 1 23 | 22 57 | 4 26 | 0 51 | 1 9 | 21 38 | 1 14 | 3 9 | 0 39 | 15 34 | 0 18 | 21 38 | 1 26 | 11 24 | 11 55 | 1 51 | 5 39 | 1 39 |
| T 14 | 13 3 | 5 0 | 1 51 | 15 9 | 3 0 | 13 44 | 1 24 | 23 1 | 4 25 | 0 56 | 1 9 | 21 38 | 1 14 | 3 10 | 0 39 | 15 33 | 0 18 | 21 38 | 1 26 | 11 23 | 11 54 | 1 49 | 5 40 | 1 39 |
| W15 | 12 42 | 9 27 | 0 36 | 15 27 | 2 49 | 13 18 | 1 24 | 23 4 | 4 24 | 1 1 | 1 9 | 21 39 | 1 13 | 3 12 | 0 39 | 15 32 | 0 18 | 21 38 | 1 26 | 11 22 | 11 53 | 1 47 | 5 41 | 1 38 |
| T 16 | 12 21 | 13 16 | 0s39 | 15 43 | 2 37 | 12 52 | 1 25 | 23 8 | 4 22 | 1 6 | 1 9 | 21 39 | 1 13 | 3 13 | 0 39 | 15 32 | 0 19 | 21 38 | 1 26 | 11 22 | 11 52 | 1 45 | 5 42 | 1 38 |
| F 17 | 12 0 | 16 12 | 1 50 | 15 58 | 2 24 | 12 26 | 1 25 | 23 11 | 4 21 | 1 12 | 1 8 | 21 39 | 1 13 | 3 14 | 0 39 | 15 31 | 0 19 | 21 38 | 1 26 | 11 23 | 11 51 | 1 43 | 5 43 | 1 38 |
| S 18 | 11 39 | 18 10 | 2 53 | 16 11 | 2 11 | 11 59 | 1 26 | 23 14 | 4 20 | 1 17 | 1 8 | 21 39 | 1 13 | 3 15 | 0 39 | 15 30 | 0 19 | 21 39 | 1 26 | 11 23 | 11 50 | 1 41 | 5 44 | 1 38 |
| S 19 | 11 18 | 19 7 | 3 46 | 16 23 | 1 58 | 11 32 | 1 26 | 23 16 | 4 18 | 1 22 | 1 8 | 21 40 | 1 12 | 3 16 | 0 39 | 15 30 | 0 19 | 21 39 | 1 26 | 11 22 | 11 48 | 1 39 | 5 45 | 1 38 |
| M20 | 10 57 | 19 3 | 4 26 | 16 33 | 1 45 | 11 5 | 1 26 | 23 19 | 4 16 | 1 27 | 1 8 | 21 40 | 1 12 | 3 17 | 0 39 | 15 29 | 0 19 | 21 39 | 1 26 | 11 21 | 11 47 | 1 37 | 5 46 | 1 38 |
| T 21 | 10 35 | 18 3 | 4 52 | 16 42 | 1 32 | 10 37 | 1 26 | 23 21 | 4 15 | 1 33 | 1 8 | 21 40 | 1 12 | 3 18 | 0 39 | 15 28 | 0 19 | 21 39 | 1 26 | 11 19 | 11 46 | 1 35 | 5 47 | 1 38 |
| W22 | 10 13 | 16 13 | 5 4 | 16 49 | 1 19 | 10 10 | 1 26 | 23 23 | 4 13 | 1 38 | 1 8 | 21 40 | 1 12 | 3 19 | 0 39 | 15 28 | 0 19 | 21 39 | 1 26 | 11 16 | 11 45 | 1 33 | 5 48 | 1 37 |
| T 23 | 9 51 | 13 41 | 5 2 | 16 54 | 1 7 | 9 42 | 1 26 | 23 24 | 4 11 | 1 44 | 1 8 | 21 41 | 1 12 | 3 21 | 0 39 | 15 27 | 0 19 | 21 39 | 1 26 | 11 12 | 11 44 | 1 31 | 5 49 | 1 37 |
| F 24 | 9 29 | 10 35 | 4 47 | 16 58 | 0 54 | 9 13 | 1 26 | 23 26 | 4 9 | 1 49 | 1 8 | 21 41 | 1 11 | 3 22 | 0 39 | 15 26 | 0 19 | 21 39 | 1 26 | 11 8 | 11 43 | 1 29 | 5 50 | 1 37 |
| S 25 | 9 7 | 7 6 | 4 19 | 17 1 | 0 42 | 8 45 | 1 26 | 23 27 | 4 7 | 1 54 | 1 8 | 21 41 | 1 11 | 3 23 | 0 39 | 15 26 | 0 19 | 21 40 | 1 25 | 11 4 | 11 42 | 1 27 | 5 51 | 1 37 |
| S 26 | 8 45 | 3 21 | 3 40 | 17 1 | 0 30 | 8 16 | 1 26 | 23 28 | 4 5 | 2 0 | 1 7 | 21 41 | 1 11 | 3 24 | 0 39 | 15 25 | 0 19 | 21 40 | 1 25 | 11 1 | 11 41 | 1 25 | 5 52 | 1 37 |
| M27 | 8 22 | 0s31 | 2 51 | 17 0 | 0 19 | 7 47 | 1 26 | 23 28 | 4 3 | 2 5 | 1 7 | 21 42 | 1 11 | 3 25 | 0 39 | 15 24 | 0 19 | 21 40 | 1 25 | 10 59 | 11 40 | 1 23 | 5 54 | 1 37 |
| T 28 | 8s 0 | 4s22 | 1s55 | 16s58 | 0n 7 | 7s18 | 1s26 | 23n29 | 4n 1 | 2n11 | 1s 7 | 21n42 | 1s10 | 3n27 | 0s39 | 15s24 | 0s19 | 21n40 | 1s25 | 10s57 | 11s38 | 1n21 | 5n55 | 1n37 |

Julian Day Number = 2334333.5, Delta T = 24.19 sec
Ecliptic obliquity = 23°28'44, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'39, Lahiri = 19°22'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## MARCH 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 35 26 | 10♓34'00 | 18♎22 | 13♒22 | 16♓ 6 | 2°R40 | 8♈18 | 17♊19 | 10♈14 | 19♒13 | 10°R16 | 28°R25 | 0♏23 | 18♍43 | 11♈14 | W 1 |
| T 2 | 10 39 23 | 11°34'02 | 0♏16 | 14°16 | 17°20 | 2♌31 | 8°32 | 17°21 | 10°17 | 19°15 | 10♋15 | 28°D25 | 0°19 | 18°49 | 11°17 | T 2 |
| F 3 | 10 43 19 | 12°34'02 | 12°19 | 15°13 | 18°35 | 2°23 | 8°46 | 17°22 | 10°20 | 19°17 | 10°15 | 28♎25 | 0°16 | 18°56 | 11°20 | F 3 |
| S 4 | 10 47 16 | 13°34'01 | 24°34 | 16°13 | 19°50 | 2°17 | 8°59 | 17°24 | 10°23 | 19°19 | 10°14 | 28°27 | 0°13 | 19° 3 | 11°24 | S 4 |
| S 5 | 10 51 12 | 14°33'58 | 7♐ 5 | 17°15 | 21° 5 | 2°10 | 9°13 | 17°26 | 10°26 | 19°21 | 10°14 | 28°28 | 0°10 | 19° 9 | 11°27 | S 5 |
| M 6 | 10 55 9 | 15°33'54 | 19°59 | 18°20 | 22°20 | 2° 5 | 9°27 | 17°27 | 10°29 | 19°23 | 10°13 | 28°R28 | 0° 7 | 19°16 | 11°31 | M 6 |
| T 7 | 10 59 5 | 16°33'48 | 3♑17 | 19°28 | 23°34 | 2° 1 | 9°41 | 17°29 | 10°33 | 19°25 | 10°13 | 28°27 | 0° 4 | 19°23 | 11°34 | T 7 |
| W 8 | 11 3 2 | 17°33'40 | 17° 4 | 20°37 | 24°49 | 1°57 | 9°55 | 17°32 | 10°36 | 19°27 | 10°12 | 28°24 | 0° 0 | 19°29 | 11°37 | W 8 |
| T 9 | 11 6 59 | 18°33'30 | 1♒20 | 21°49 | 26° 4 | 1°54 | 10° 9 | 17°34 | 10°39 | 19°29 | 10°12 | 28°19 | 29♎57 | 19°36 | 11°41 | T 9 |
| F 10 | 11 10 55 | 19°33'19 | 16° 2 | 23° 2 | 27°19 | 1°52 | 10°23 | 17°36 | 10°42 | 19°31 | 10°12 | 28°13 | 29°54 | 19°43 | 11°44 | F 10 |
| S 11 | 11 14 52 | 20°33'06 | 1♓ 4 | 24°17 | 28°33 | 1°50 | 10°37 | 17°38 | 10°46 | 19°33 | 10°11 | 28° 7 | 29°51 | 19°49 | 11°48 | S 11 |
| S 12 | 11 18 48 | 21°32'51 | 16°19 | 25°34 | 29°48 | 1°D50 | 10°51 | 17°41 | 10°49 | 19°35 | 10°11 | 28° 2 | 29°48 | 19°56 | 11°51 | S 12 |
| M13 | 11 22 45 | 22°32'34 | 1♈35 | 26°53 | 1♈ 3 | 1°50 | 11° 5 | 17°44 | 10°52 | 19°37 | 10°11 | 27°58 | 29°44 | 20° 3 | 11°55 | M13 |
| T 14 | 11 26 41 | 23°32'15 | 16°42 | 28°14 | 2°17 | 1°50 | 11°19 | 17°46 | 10°56 | 19°39 | 10°10 | 27°56 | 29°41 | 20° 9 | 11°58 | T 14 |
| W15 | 11 30 38 | 24°31'54 | 1♉31 | 29°36 | 3°32 | 1°52 | 11°33 | 17°49 | 10°59 | 19°41 | 10°10 | 27°D56 | 29°38 | 20°16 | 12° 2 | W15 |
| T 16 | 11 34 34 | 25°31'30 | 15°56 | 1♓ 0 | 4°46 | 1°54 | 11°48 | 17°52 | 11° 2 | 19°43 | 10°10 | 27°57 | 29°35 | 20°23 | 12° 5 | T 16 |
| F 17 | 11 38 31 | 26°31'05 | 29°55 | 2°25 | 6° 1 | 1°57 | 12° 2 | 17°55 | 11° 6 | 19°45 | 10°10 | 27°58 | 29°32 | 20°29 | 12° 9 | F 17 |
| S 18 | 11 42 28 | 27°30'37 | 13♊27 | 3°52 | 7°16 | 2° 1 | 12°16 | 17°58 | 11° 9 | 19°47 | 10°10 | 28° 0 | 29°29 | 20°36 | 12°13 | S 18 |
| S 19 | 11 46 24 | 28°30'06 | 26°35 | 5°20 | 8°30 | 2° 5 | 12°30 | 18° 2 | 11°12 | 19°49 | 10°10 | 28°R 0 | 29°25 | 20°43 | 12°16 | S 19 |
| M20 | 11 50 21 | 29°29'34 | 9♋21 | 6°49 | 9°45 | 2°10 | 12°45 | 18° 5 | 11°16 | 19°51 | 10° 9 | 28° 0 | 29°22 | 20°50 | 12°20 | M20 |
| T 21 | 11 54 17 | 0♈28'59 | 21°48 | 8°21 | 10°59 | 2°16 | 12°59 | 18° 8 | 11°19 | 19°53 | 10° 9 | 27°58 | 29°19 | 20°56 | 12°23 | T 21 |
| W22 | 11 58 14 | 1°28'22 | 4♌ 2 | 9°53 | 12°13 | 2°22 | 13°13 | 18°12 | 11°22 | 19°55 | 10° 9 | 27°55 | 29°16 | 21° 3 | 12°27 | W22 |
| T 23 | 12 2 10 | 2°27'42 | 16° 5 | 11°27 | 13°28 | 2°29 | 13°28 | 18°15 | 11°26 | 19°56 | 10° 9 | 27°51 | 29°13 | 21°10 | 12°31 | T 23 |
| F 24 | 12 6 7 | 3°27'00 | 28° 0 | 13° 2 | 14°42 | 2°36 | 13°42 | 18°19 | 11°29 | 19°58 | 10°D 9 | 27°47 | 29° 9 | 21°16 | 12°34 | F 24 |
| S 25 | 12 10 3 | 4°26'16 | 9♍52 | 14°39 | 15°57 | 2°45 | 13°56 | 18°23 | 11°33 | 20° 0 | 10° 9 | 27°43 | 29° 6 | 21°23 | 12°38 | S 25 |
| S 26 | 12 14 0 | 5°25'30 | 21°41 | 16°17 | 17°11 | 2°53 | 14°11 | 18°27 | 11°36 | 20° 2 | 10° 9 | 27°39 | 29° 3 | 21°30 | 12°42 | S 26 |
| M27 | 12 17 57 | 6°24'42 | 3♎31 | 17°56 | 18°25 | 3° 3 | 14°25 | 18°31 | 11°39 | 20° 3 | 10° 9 | 27°37 | 29° 0 | 21°36 | 12°45 | M27 |
| T 28 | 12 21 53 | 7°23'51 | 15°23 | 19°37 | 19°39 | 3°13 | 14°40 | 18°35 | 11°43 | 20° 5 | 10°10 | 27°35 | 28°57 | 21°43 | 12°49 | T 28 |
| W29 | 12 25 50 | 8°22'59 | 27°19 | 21°19 | 20°54 | 3°23 | 14°54 | 18°39 | 11°46 | 20° 7 | 10°10 | 27°D35 | 28°54 | 21°50 | 12°53 | W29 |
| T 30 | 12 29 46 | 9°22'04 | 9♏22 | 23° 3 | 22° 8 | 3°34 | 15° 8 | 18°43 | 11°50 | 20° 8 | 10°10 | 27°35 | 28°50 | 21°56 | 12°56 | T 30 |
| F 31 | 12 33 43 | 10♈21'08 | 21♏34 | 24♓48 | 23♈22 | 3♌46 | 15♈23 | 18♊48 | 11♈53 | 20♒10 | 10♋10 | 27♎36 | 28♎47 | 22♍ 3 | 13♈ 0 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 7s37 | 8s 3 | 0s54 | 16s54 | 0s 4 | 6s48 | 1s25 | 23n29 | 3n59 | 2n16 | 1s 7 | 21n43 | 1s10 | 3n28 | 0s39 | 15s23 | 0s19 | 21n40 | 1s25 | 10s56 | 11s37 | 1n19 | 5n56 | 1n37 |
| T 2 | 7 14 | 11 26 | 0n10 | 16 48 | 0 14 | 6 19 | 1 25 | 23 29 | 3 57 | 2 22 | 1 7 | 21 43 | 1 10 | 3 29 | 0 39 | 15 22 | 0 19 | 21 40 | 1 25 | 10 56 | 11 36 | 1 17 | 5 57 | 1 37 |
| F 3 | 6 51 | 14 22 | 1 15 | 16 41 | 0 24 | 5 49 | 1 24 | 23 29 | 3 55 | 2 27 | 1 7 | 21 43 | 1 10 | 3 30 | 0 39 | 15 22 | 0 19 | 21 40 | 1 25 | 10 56 | 11 35 | 1 15 | 5 58 | 1 36 |
| S 4 | 6 28 | 16 44 | 2 17 | 16 33 | 0 34 | 5 19 | 1 24 | 23 28 | 3 53 | 2 33 | 1 7 | 21 44 | 1 10 | 3 32 | 0 39 | 15 21 | 0 19 | 21 40 | 1 25 | 10 56 | 11 34 | 1 13 | 5 59 | 1 36 |
| S 5 | 6 5 | 18 20 | 3 14 | 16 23 | 0 43 | 4 49 | 1 23 | 23 27 | 3 51 | 2 38 | 1 7 | 21 44 | 1 9 | 3 33 | 0 39 | 15 20 | 0 19 | 21 41 | 1 25 | 10 57 | 11 33 | 1 11 | 6 1 | 1 36 |
| M 6 | 5 42 | 19 3 | 4 3 | 16 11 | 0 52 | 4 19 | 1 23 | 23 27 | 3 49 | 2 44 | 1 7 | 21 44 | 1 9 | 3 34 | 0 39 | 15 20 | 0 19 | 21 41 | 1 25 | 10 57 | 11 32 | 1 9 | 6 2 | 1 36 |
| T 7 | 5 19 | 18 45 | 4 41 | 15 58 | 1 1 | 3 48 | 1 22 | 23 25 | 3 47 | 2 49 | 1 7 | 21 45 | 1 9 | 3 35 | 0 39 | 15 19 | 0 19 | 21 41 | 1 25 | 10 56 | 11 31 | 1 7 | 6 3 | 1 36 |
| W 8 | 4 55 | 17 21 | 5 5 | 15 44 | 1 9 | 3 18 | 1 21 | 23 24 | 3 45 | 2 55 | 1 6 | 21 45 | 1 9 | 3 37 | 0 39 | 15 18 | 0 19 | 21 41 | 1 24 | 10 55 | 11 30 | 1 5 | 6 4 | 1 36 |
| T 9 | 4 32 | 14 51 | 5 10 | 15 28 | 1 17 | 2 48 | 1 20 | 23 23 | 3 42 | 3 0 | 1 6 | 21 46 | 1 8 | 3 38 | 0 39 | 15 18 | 0 19 | 21 41 | 1 24 | 10 54 | 11 28 | 1 3 | 6 6 | 1 36 |
| F 10 | 4 9 | 11 21 | 4 56 | 15 11 | 1 24 | 2 17 | 1 19 | 23 21 | 3 40 | 3 6 | 1 6 | 21 46 | 1 8 | 3 39 | 0 39 | 15 17 | 0 19 | 21 41 | 1 24 | 10 52 | 11 27 | 1 1 | 6 7 | 1 36 |
| S 11 | 3 45 | 7 2 | 4 21 | 14 52 | 1 31 | 1 46 | 1 18 | 23 19 | 3 38 | 3 12 | 1 6 | 21 46 | 1 8 | 3 41 | 0 39 | 15 17 | 0 19 | 21 41 | 1 24 | 10 49 | 11 26 | 0 59 | 6 8 | 1 36 |
| S 12 | 3 21 | 2 13 | 3 27 | 14 33 | 1 37 | 1 16 | 1 17 | 23 17 | 3 36 | 3 17 | 1 6 | 21 47 | 1 8 | 3 42 | 0 39 | 15 16 | 0 19 | 21 41 | 1 24 | 10 48 | 11 25 | 0 57 | 6 9 | 1 35 |
| M13 | 2 58 | 2n45 | 2 19 | 14 11 | 1 43 | 0 45 | 1 16 | 23 15 | 3 34 | 3 23 | 1 6 | 21 47 | 1 8 | 3 43 | 0 39 | 15 15 | 0 19 | 21 42 | 1 24 | 10 46 | 11 24 | 0 55 | 6 11 | 1 35 |
| T 14 | 2 34 | 7 31 | 1 1 | 13 49 | 1 49 | 0 14 | 1 15 | 23 13 | 3 31 | 3 28 | 1 6 | 21 48 | 1 7 | 3 44 | 0 39 | 15 15 | 0 19 | 21 42 | 1 24 | 10 45 | 11 23 | 0 53 | 6 12 | 1 35 |
| W15 | 2 11 | 11 43 | 0s20 | 13 25 | 1 54 | 0n17 | 1 14 | 23 10 | 3 29 | 3 34 | 1 6 | 21 48 | 1 7 | 3 46 | 0 38 | 15 14 | 0 19 | 21 42 | 1 24 | 10 45 | 11 22 | 0 51 | 6 13 | 1 35 |
| T 16 | 1 47 | 15 5 | 1 37 | 12 59 | 1 59 | 0 47 | 1 13 | 23 8 | 3 27 | 3 40 | 1 6 | 21 49 | 1 7 | 3 47 | 0 38 | 15 14 | 0 19 | 21 42 | 1 24 | 10 46 | 11 21 | 0 49 | 6 15 | 1 35 |
| F 17 | 1 23 | 17 27 | 2 46 | 12 33 | 2 3 | 1 18 | 1 11 | 23 5 | 3 25 | 3 45 | 1 6 | 21 49 | 1 7 | 3 48 | 0 38 | 15 13 | 0 19 | 21 42 | 1 24 | 10 46 | 11 19 | 0 47 | 6 16 | 1 35 |
| S 18 | 1 0 | 18 45 | 3 44 | 12 5 | 2 7 | 1 49 | 1 10 | 23 2 | 3 23 | 3 51 | 1 6 | 21 50 | 1 7 | 3 50 | 0 38 | 15 12 | 0 19 | 21 42 | 1 23 | 10 47 | 11 18 | 0 45 | 6 17 | 1 35 |
| S 19 | 0 36 | 18 58 | 4 28 | 11 36 | 2 10 | 2 20 | 1 8 | 22 59 | 3 20 | 3 56 | 1 6 | 21 50 | 1 6 | 3 51 | 0 38 | 15 12 | 0 19 | 21 42 | 1 23 | 10 47 | 11 17 | 0 43 | 6 19 | 1 35 |
| M20 | 0 12 | 18 12 | 4 57 | 11 5 | 2 13 | 2 50 | 1 7 | 22 56 | 3 18 | 4 2 | 1 6 | 21 51 | 1 6 | 3 52 | 0 38 | 15 11 | 0 19 | 21 42 | 1 23 | 10 47 | 11 16 | 0 41 | 6 20 | 1 35 |
| T 21 | 0n12 | 16 35 | 5 12 | 10 33 | 2 16 | 3 21 | 1 5 | 22 52 | 3 16 | 4 8 | 1 6 | 21 51 | 1 6 | 3 54 | 0 38 | 15 11 | 0 19 | 21 42 | 1 23 | 10 46 | 11 15 | 0 39 | 6 21 | 1 35 |
| W22 | 0 35 | 14 13 | 5 12 | 10 0 | 2 18 | 3 52 | 1 4 | 22 49 | 3 14 | 4 13 | 1 6 | 21 52 | 1 6 | 3 55 | 0 38 | 15 10 | 0 19 | 21 42 | 1 23 | 10 45 | 11 14 | 0 37 | 6 23 | 1 34 |
| T 23 | 0 59 | 11 18 | 4 58 | 9 26 | 2 20 | 4 22 | 1 2 | 22 45 | 3 12 | 4 19 | 1 5 | 21 52 | 1 6 | 3 56 | 0 38 | 15 10 | 0 19 | 21 43 | 1 23 | 10 44 | 11 13 | 0 35 | 6 24 | 1 34 |
| F 24 | 1 22 | 7 56 | 4 32 | 8 50 | 2 21 | 4 52 | 1 0 | 22 41 | 3 10 | 4 25 | 1 5 | 21 53 | 1 5 | 3 58 | 0 38 | 15 9 | 0 19 | 21 43 | 1 23 | 10 42 | 11 12 | 0 33 | 6 25 | 1 34 |
| S 25 | 1 46 | 4 17 | 3 53 | 8 14 | 2 21 | 5 23 | 0 59 | 22 37 | 3 8 | 4 30 | 1 5 | 21 53 | 1 5 | 3 59 | 0 38 | 15 8 | 0 19 | 21 43 | 1 23 | 10 41 | 11 10 | 0 31 | 6 27 | 1 34 |
| S 26 | 2 10 | 0 28 | 3 5 | 7 36 | 2 22 | 5 53 | 0 57 | 22 33 | 3 5 | 4 36 | 1 5 | 21 54 | 1 5 | 4 0 | 0 38 | 15 8 | 0 19 | 21 43 | 1 23 | 10 39 | 11 9 | 0 30 | 6 28 | 1 34 |
| M27 | 2 33 | 3s22 | 2 9 | 6 57 | 2 21 | 6 23 | 0 55 | 22 29 | 3 3 | 4 41 | 1 5 | 21 54 | 1 5 | 4 2 | 0 38 | 15 7 | 0 19 | 21 43 | 1 23 | 10 38 | 11 8 | 0 28 | 6 29 | 1 34 |
| T 28 | 2 56 | 7 6 | 1 7 | 6 16 | 2 21 | 6 53 | 0 53 | 22 25 | 3 1 | 4 47 | 1 5 | 21 55 | 1 5 | 4 3 | 0 38 | 15 7 | 0 19 | 21 43 | 1 23 | 10 38 | 11 7 | 0 26 | 6 31 | 1 34 |
| W29 | 3 20 | 10 34 | 0 1 | 5 35 | 2 19 | 7 23 | 0 51 | 22 20 | 2 59 | 4 53 | 1 5 | 21 55 | 1 4 | 4 4 | 0 38 | 15 6 | 0 19 | 21 43 | 1 22 | 10 38 | 11 6 | 0 24 | 6 32 | 1 34 |
| T 30 | 3 43 | 13 37 | 1n 5 | 4 52 | 2 18 | 7 52 | 0 49 | 22 16 | 2 57 | 4 58 | 1 5 | 21 56 | 1 4 | 4 6 | 0 38 | 15 6 | 0 19 | 21 43 | 1 22 | 10 38 | 11 5 | 0 22 | 6 34 | 1 34 |
| F 31 | 4n 6 | 16s 7 | 2n 9 | 4s 8 | 2s15 | 8n22 | 0s47 | 22n11 | 2n55 | 5n 4 | 1s 5 | 21n57 | 1s 4 | 4n 7 | 0s38 | 15s 5 | 0s19 | 21n43 | 1s22 | 10s38 | 11s 4 | 0n20 | 6n35 | 1n34 |

Julian Day Number = 2334361.5, Delta T = 24.14 sec
Ecliptic obliquity = 23°28'44, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'43, Lahiri = 19°22'43Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## APRIL 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 37 39 | 11♈20'10 | 3♐57 | 26♓35 | 24♈36 | 3♌58 | 15♈37 | 18♊52 | 11♈57 | 20♒12 | 10♋10 | 27♎38 | 28♎44 | 22♍10 | 13♈ 4 | S 1 |
| S 2 | 12 41 36 | 12°19'10 | 16°35 | 28°23 | 25°50 | 4°10 | 15°52 | 18°57 | 12° 0 | 20°13 | 10°10 | 27°39 | 28°41 | 22°16 | 13° 8 | S 2 |
| M 3 | 12 45 32 | 13°18'09 | 29°30 | 0♈12 | 27° 5 | 4°24 | 16° 6 | 19° 1 | 12° 3 | 20°15 | 10°11 | 27°40 | 28°38 | 22°23 | 13°11 | M 3 |
| T 4 | 12 49 29 | 14°17'05 | 12♉46 | 2° 3 | 28°19 | 4°37 | 16°21 | 19° 6 | 12° 7 | 20°16 | 10°11 | 27°R40 | 28°35 | 22°30 | 13°15 | T 4 |
| W 5 | 12 53 26 | 15°16'00 | 26°26 | 3°56 | 29°33 | 4°51 | 16°35 | 19°11 | 12°10 | 20°18 | 10°11 | 27°40 | 28°31 | 22°36 | 13°19 | W 5 |
| T 6 | 12 57 22 | 16°14'53 | 10♒28 | 5°50 | 0♉47 | 5° 6 | 16°50 | 19°16 | 12°14 | 20°19 | 10°11 | 27°39 | 28°28 | 22°43 | 13°22 | T 6 |
| F 7 | 13 1 19 | 17°13'45 | 24°54 | 7°45 | 2° 1 | 5°21 | 17° 4 | 19°21 | 12°17 | 20°21 | 10°12 | 27°38 | 28°25 | 22°50 | 13°26 | F 7 |
| S 8 | 13 5 15 | 18°12'34 | 9♓39 | 9°42 | 3°15 | 5°37 | 17°19 | 19°26 | 12°21 | 20°22 | 10°12 | 27°37 | 28°22 | 22°56 | 13°30 | S 8 |
| S 9 | 13 9 12 | 19°11'22 | 24°39 | 11°40 | 4°29 | 5°53 | 17°33 | 19°31 | 12°24 | 20°24 | 10°12 | 27°36 | 28°19 | 23° 3 | 13°33 | S 9 |
| M10 | 13 13 8 | 20°10'08 | 9♈44 | 13°40 | 5°43 | 6° 9 | 17°47 | 19°36 | 12°27 | 20°25 | 10°13 | 27°35 | 28°15 | 23°10 | 13°37 | M10 |
| T 11 | 13 17 5 | 21° 8'52 | 24°46 | 15°41 | 6°57 | 6°26 | 18° 2 | 19°41 | 12°31 | 20°26 | 10°13 | 27°D35 | 28°12 | 23°16 | 13°41 | T 11 |
| W12 | 13 21 1 | 22° 7'34 | 9♉36 | 17°43 | 8°10 | 6°43 | 18°16 | 19°46 | 12°34 | 20°28 | 10°14 | 27°35 | 28° 9 | 23°23 | 13°44 | W12 |
| T 13 | 13 24 58 | 23° 6'14 | 24° 7 | 19°47 | 9°24 | 7° 1 | 18°31 | 19°52 | 12°38 | 20°29 | 10°14 | 27°35 | 28° 6 | 23°30 | 13°48 | T 13 |
| F 14 | 13 28 54 | 24° 4'52 | 8♊15 | 21°52 | 10°38 | 7°19 | 18°45 | 19°57 | 12°41 | 20°30 | 10°15 | 27°36 | 28° 3 | 23°36 | 13°52 | F 14 |
| S 15 | 13 32 51 | 25° 3'28 | 21°57 | 23°58 | 11°52 | 7°37 | 19° 0 | 20° 3 | 12°44 | 20°31 | 10°15 | 27°36 | 28° 0 | 23°43 | 13°55 | S 15 |
| S 16 | 13 36 48 | 26° 2'01 | 5♋12 | 26° 4 | 13° 6 | 7°56 | 19°14 | 20° 8 | 12°48 | 20°33 | 10°16 | 27°36 | 27°56 | 23°50 | 13°59 | S 16 |
| M17 | 13 40 44 | 27° 0'33 | 18° 3 | 28°12 | 14°19 | 8°16 | 19°28 | 20°14 | 12°51 | 20°34 | 10°16 | 27°36 | 27°53 | 23°56 | 14° 3 | M17 |
| T 18 | 13 44 41 | 27°59'02 | 0♌34 | 0♉20 | 15°33 | 8°35 | 19°43 | 20°20 | 12°55 | 20°35 | 10°17 | 27°36 | 27°50 | 24° 3 | 14° 6 | T 18 |
| W19 | 13 48 37 | 28°57'29 | 12°47 | 2°28 | 16°47 | 8°55 | 19°57 | 20°26 | 12°58 | 20°36 | 10°17 | 27°36 | 27°47 | 24°10 | 14°10 | W19 |
| T 20 | 13 52 34 | 29°55'54 | 24°48 | 4°36 | 18° 1 | 9°16 | 20°12 | 20°32 | 13° 1 | 20°37 | 10°18 | 27°37 | 27°44 | 24°16 | 14°13 | T 20 |
| F 21 | 13 56 30 | 0♉54'17 | 6♍41 | 6°44 | 19°14 | 9°37 | 20°26 | 20°37 | 13° 4 | 20°38 | 10°19 | 27°37 | 27°40 | 24°23 | 14°17 | F 21 |
| S 22 | 14 0 27 | 1°52'37 | 18°30 | 8°52 | 20°28 | 9°58 | 20°40 | 20°43 | 13° 8 | 20°39 | 10°19 | 27°37 | 27°37 | 24°30 | 14°21 | S 22 |
| S 23 | 14 4 23 | 2°50'56 | 0♎19 | 10°58 | 21°41 | 10°19 | 20°55 | 20°50 | 13°11 | 20°40 | 10°20 | 27°38 | 27°34 | 24°36 | 14°24 | S 23 |
| M24 | 14 8 20 | 3°49'12 | 12°11 | 13° 4 | 22°55 | 10°41 | 21° 9 | 20°56 | 13°14 | 20°41 | 10°21 | 27°38 | 27°31 | 24°43 | 14°28 | M24 |
| T 25 | 14 12 17 | 4°47'27 | 24° 9 | 15° 8 | 24° 8 | 11° 3 | 21°23 | 21° 2 | 13°18 | 20°42 | 10°21 | 27°R39 | 27°28 | 24°50 | 14°31 | T 25 |
| W26 | 14 16 13 | 5°45'40 | 6♏15 | 17°11 | 25°22 | 11°25 | 21°37 | 21° 8 | 13°21 | 20°43 | 10°22 | 27°39 | 27°25 | 24°56 | 14°35 | W26 |
| T 27 | 14 20 10 | 6°43'52 | 18°30 | 19°11 | 26°35 | 11°48 | 21°51 | 21°14 | 13°24 | 20°44 | 10°23 | 27°38 | 27°21 | 25° 3 | 14°38 | T 27 |
| F 28 | 14 24 6 | 7°42'01 | 0♐57 | 21° 9 | 27°49 | 12°11 | 22° 6 | 21°21 | 13°27 | 20°45 | 10°24 | 27°37 | 27°18 | 25°10 | 14°42 | F 28 |
| S 29 | 14 28 3 | 8°40'09 | 13°37 | 23° 5 | 29° 2 | 12°34 | 22°20 | 21°27 | 13°30 | 20°46 | 10°25 | 27°36 | 27°15 | 25°16 | 14°45 | S 29 |
| S 30 | 14 31 59 | 9♉38'16 | 26♐30 | 24♉58 | 0♊15 | 12♌57 | 22♈34 | 21♊34 | 13♈34 | 20♒46 | 10♋25 | 27♎34 | 27♎12 | 25♍23 | 14♈49 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n30 | 17s54 | 3n 8 | 3s23 | 2s13 | 8n51 | 0s45 | 22n 6 | 2n53 | 5n 9 | 1s 5 | 21n57 | 1s 4 | 4n 8 | 0s38 | 15s 5 | 0s19 | 21n43 | 1s22 | 10s39 | 11s 3 | 0n18 | 6n36 | 1n34 |
| S 2 | 4 53 | 18 50 | 3 59 | 2 37 | 2 9 | 9 20 | 0 43 | 22 1 | 2 51 | 5 15 | 1 5 | 21 58 | 1 4 | 4 10 | 0 38 | 15 4 | 0 19 | 21 43 | 1 22 | 10 39 | 11 1 | 0 16 | 6 38 | 1 34 |
| M 3 | 5 16 | 18 49 | 4 40 | 1 50 | 2 6 | 9 49 | 0 41 | 21 56 | 2 49 | 5 21 | 1 5 | 21 58 | 1 3 | 4 11 | 0 38 | 15 4 | 0 19 | 21 44 | 1 22 | 10 40 | 11 0 | 0 14 | 6 39 | 1 34 |
| T 4 | 5 38 | 17 47 | 5 6 | 1 2 | 2 1 | 10 17 | 0 39 | 21 51 | 2 47 | 5 26 | 1 5 | 21 59 | 1 3 | 4 13 | 0 38 | 15 3 | 0 19 | 21 44 | 1 22 | 10 40 | 10 59 | 0 12 | 6 40 | 1 33 |
| W 5 | 6 1 | 15 43 | 5 17 | 0 13 | 1 57 | 10 46 | 0 37 | 21 45 | 2 45 | 5 32 | 1 5 | 21 59 | 1 3 | 4 14 | 0 38 | 15 3 | 0 19 | 21 44 | 1 22 | 10 40 | 10 58 | 0 10 | 6 42 | 1 33 |
| T 6 | 6 24 | 12 41 | 5 9 | 0n37 | 1 51 | 11 14 | 0 34 | 21 40 | 2 43 | 5 37 | 1 5 | 22 0 | 1 3 | 4 15 | 0 38 | 15 2 | 0 19 | 21 44 | 1 22 | 10 39 | 10 57 | 0 8 | 6 43 | 1 33 |
| F 7 | 6 47 | 8 49 | 4 42 | 1 28 | 1 46 | 11 41 | 0 32 | 21 34 | 2 42 | 5 43 | 1 5 | 22 1 | 1 3 | 4 17 | 0 38 | 15 2 | 0 19 | 21 44 | 1 22 | 10 39 | 10 56 | 0 6 | 6 45 | 1 33 |
| S 8 | 7 9 | 4 19 | 3 56 | 2 20 | 1 39 | 12 9 | 0 30 | 21 29 | 2 40 | 5 49 | 1 5 | 22 1 | 1 2 | 4 18 | 0 38 | 15 2 | 0 19 | 21 44 | 1 22 | 10 39 | 10 55 | 0 4 | 6 46 | 1 33 |
| S 9 | 7 31 | 0n31 | 2 53 | 3 12 | 1 33 | 12 36 | 0 27 | 21 23 | 2 38 | 5 54 | 1 5 | 22 2 | 1 2 | 4 19 | 0 38 | 15 1 | 0 19 | 21 44 | 1 21 | 10 38 | 10 53 | 0 2 | 6 47 | 1 33 |
| M10 | 7 54 | 5 21 | 1 38 | 4 5 | 1 25 | 13 3 | 0 25 | 21 17 | 2 36 | 6 0 | 1 5 | 22 2 | 1 2 | 4 21 | 0 38 | 15 1 | 0 19 | 21 44 | 1 21 | 10 38 | 10 52 | 0s 0 | 6 49 | 1 33 |
| T 11 | 8 16 | 9 51 | 0 16 | 4 59 | 1 18 | 13 30 | 0 23 | 21 11 | 2 34 | 6 5 | 1 5 | 22 3 | 1 2 | 4 22 | 0 38 | 15 0 | 0 19 | 21 44 | 1 21 | 10 38 | 10 51 | 0 2 | 6 50 | 1 33 |
| W12 | 8 38 | 13 40 | 1s 6 | 5 54 | 1 9 | 13 56 | 0 20 | 21 5 | 2 32 | 6 11 | 1 5 | 22 3 | 1 2 | 4 23 | 0 38 | 15 0 | 0 19 | 21 44 | 1 21 | 10 38 | 10 50 | 0 4 | 6 51 | 1 33 |
| T 13 | 9 0 | 16 32 | 2 22 | 6 49 | 1 1 | 14 22 | 0 18 | 20 58 | 2 30 | 6 16 | 1 5 | 22 4 | 1 2 | 4 25 | 0 38 | 15 0 | 0 19 | 21 44 | 1 21 | 10 38 | 10 49 | 0 6 | 6 53 | 1 33 |
| F 14 | 9 21 | 18 18 | 3 27 | 7 44 | 0 52 | 14 48 | 0 15 | 20 52 | 2 29 | 6 22 | 1 5 | 22 5 | 1 1 | 4 26 | 0 38 | 14 59 | 0 19 | 21 44 | 1 21 | 10 38 | 10 48 | 0 8 | 6 54 | 1 33 |
| S 15 | 9 43 | 18 56 | 4 18 | 8 39 | 0 42 | 15 13 | 0 13 | 20 46 | 2 27 | 6 27 | 1 5 | 22 5 | 1 1 | 4 27 | 0 38 | 14 59 | 0 19 | 21 44 | 1 21 | 10 38 | 10 47 | 0 10 | 6 56 | 1 33 |
| S 16 | 10 4 | 18 29 | 4 54 | 9 35 | 0 32 | 15 38 | 0 10 | 20 39 | 2 25 | 6 33 | 1 5 | 22 6 | 1 1 | 4 28 | 0 38 | 14 58 | 0 20 | 21 44 | 1 21 | 10 38 | 10 46 | 0 12 | 6 57 | 1 33 |
| M17 | 10 25 | 17 5 | 5 13 | 10 30 | 0 22 | 16 2 | 0 8 | 20 32 | 2 23 | 6 38 | 1 5 | 22 6 | 1 1 | 4 30 | 0 38 | 14 58 | 0 20 | 21 44 | 1 21 | 10 38 | 10 44 | 0 14 | 6 58 | 1 33 |
| T 18 | 10 46 | 14 54 | 5 17 | 11 25 | 0 12 | 16 26 | 0 5 | 20 25 | 2 22 | 6 43 | 1 5 | 22 7 | 1 1 | 4 31 | 0 38 | 14 58 | 0 20 | 21 44 | 1 21 | 10 38 | 10 43 | 0 16 | 7 0 | 1 33 |
| W19 | 11 7 | 12 6 | 5 7 | 12 20 | 0 1 | 16 50 | 0 3 | 20 18 | 2 20 | 6 49 | 1 5 | 22 8 | 1 1 | 4 32 | 0 38 | 14 57 | 0 20 | 21 44 | 1 21 | 10 38 | 10 42 | 0 18 | 7 1 | 1 33 |
| T 20 | 11 28 | 8 50 | 4 43 | 13 13 | 0n 9 | 17 13 | 0 0 | 20 11 | 2 18 | 6 54 | 1 5 | 22 8 | 1 0 | 4 34 | 0 38 | 14 57 | 0 20 | 21 45 | 1 20 | 10 38 | 10 41 | 0 20 | 7 2 | 1 33 |
| F 21 | 11 48 | 5 15 | 4 7 | 14 6 | 0 20 | 17 36 | 0n 2 | 20 4 | 2 17 | 7 0 | 1 5 | 22 9 | 1 0 | 4 35 | 0 38 | 14 57 | 0 20 | 21 45 | 1 20 | 10 39 | 10 40 | 0 22 | 7 4 | 1 32 |
| S 22 | 12 9 | 1 28 | 3 21 | 14 58 | 0 31 | 17 58 | 0 5 | 19 57 | 2 15 | 7 5 | 1 5 | 22 9 | 1 0 | 4 36 | 0 38 | 14 56 | 0 20 | 21 45 | 1 20 | 10 39 | 10 39 | 0 24 | 7 5 | 1 32 |
| S 23 | 12 29 | 2s22 | 2 26 | 15 48 | 0 42 | 18 20 | 0 8 | 19 49 | 2 13 | 7 10 | 1 5 | 22 10 | 1 0 | 4 38 | 0 38 | 14 56 | 0 20 | 21 45 | 1 20 | 10 39 | 10 38 | 0 26 | 7 6 | 1 32 |
| M24 | 12 49 | 6 8 | 1 25 | 16 37 | 0 52 | 18 42 | 0 10 | 19 42 | 2 12 | 7 16 | 1 5 | 22 10 | 1 0 | 4 39 | 0 38 | 14 56 | 0 20 | 21 45 | 1 20 | 10 39 | 10 36 | 0 28 | 7 8 | 1 32 |
| T 25 | 13 8 | 9 41 | 0 19 | 17 24 | 1 2 | 19 3 | 0 13 | 19 34 | 2 10 | 7 21 | 1 5 | 22 11 | 1 0 | 4 40 | 0 38 | 14 56 | 0 20 | 21 45 | 1 20 | 10 39 | 10 35 | 0 30 | 7 9 | 1 32 |
| W26 | 13 28 | 12 53 | 0n48 | 18 9 | 1 12 | 19 23 | 0 15 | 19 27 | 2 9 | 7 26 | 1 5 | 22 12 | 0 59 | 4 41 | 0 38 | 14 55 | 0 20 | 21 45 | 1 20 | 10 39 | 10 34 | 0 32 | 7 10 | 1 32 |
| T 27 | 13 47 | 15 33 | 1 53 | 18 52 | 1 22 | 19 43 | 0 18 | 19 19 | 2 7 | 7 32 | 1 5 | 22 12 | 0 59 | 4 43 | 0 38 | 14 55 | 0 20 | 21 45 | 1 20 | 10 39 | 10 33 | 0 34 | 7 12 | 1 32 |
| F 28 | 14 6 | 17 32 | 2 54 | 19 33 | 1 31 | 20 2 | 0 21 | 19 11 | 2 5 | 7 37 | 1 5 | 22 13 | 0 59 | 4 44 | 0 38 | 14 55 | 0 20 | 21 45 | 1 20 | 10 39 | 10 32 | 0 35 | 7 13 | 1 32 |
| S 29 | 14 25 | 18 42 | 3 48 | 20 11 | 1 40 | 20 21 | 0 23 | 19 3 | 2 4 | 7 42 | 1 5 | 22 13 | 0 59 | 4 45 | 0 38 | 14 55 | 0 20 | 21 45 | 1 20 | 10 38 | 10 31 | 0 37 | 7 14 | 1 32 |
| S 30 | 14n43 | 18s55 | 4n31 | 20n47 | 1n48 | 20n39 | 0n26 | 18n54 | 2n 2 | 7n47 | 1s 5 | 22n14 | 0s59 | 4n46 | 0s38 | 14s54 | 0s20 | 21n45 | 1s20 | 10s38 | 10s30 | 0s39 | 7n16 | 1n32 |

Julian Day Number = 2334392.5, Delta T = 24.09 sec
Ecliptic obliquity = 23°28'44, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'47, Lahiri = 19°22'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## MAY 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 35 56 | 10♉36'21 | 9♋38 | 26♉47 | 1♊29 | 13♌21 | 22♈48 | 21♊40 | 13♈37 | 20♒47 | 10♋26 | 27°R33 | 27♎ 9 | 25♍30 | 14♈52 | M 1 |
| T 2 | 14 39 52 | 11°34'24 | 23° 1 | 28°34 | 2°42 | 13°45 | 23° 2 | 21°47 | 13°40 | 20°48 | 10°27 | 27♎31 | 27° 6 | 25°36 | 14°55 | T 2 |
| W 3 | 14 43 49 | 12°32'26 | 6♒41 | 0♊18 | 3°55 | 14°10 | 23°16 | 21°53 | 13°43 | 20°49 | 10°28 | 27°D31 | 27° 2 | 25°43 | 14°59 | W 3 |
| T 4 | 14 47 46 | 13°30'27 | 20°37 | 1°58 | 5° 8 | 14°34 | 23°30 | 22° 0 | 13°46 | 20°49 | 10°29 | 27°31 | 26°59 | 25°50 | 15° 2 | T 4 |
| F 5 | 14 51 42 | 14°28'27 | 4♓48 | 3°34 | 6°21 | 14°59 | 23°44 | 22° 7 | 13°49 | 20°50 | 10°30 | 27°31 | 26°56 | 25°56 | 15° 5 | F 5 |
| S 6 | 14 55 39 | 15°26'25 | 19°14 | 5° 8 | 7°35 | 15°24 | 23°58 | 22°14 | 13°52 | 20°50 | 10°31 | 27°33 | 26°53 | 26° 3 | 15° 9 | S 6 |
| S 7 | 14 59 35 | 16°24'22 | 3♈50 | 6°37 | 8°48 | 15°49 | 24°12 | 22°21 | 13°55 | 20°51 | 10°32 | 27°34 | 26°50 | 26°10 | 15°12 | S 7 |
| M 8 | 15 3 32 | 17°22'17 | 18°32 | 8° 3 | 10° 1 | 16°15 | 24°26 | 22°27 | 13°58 | 20°52 | 10°33 | 27°35 | 26°46 | 26°16 | 15°15 | M 8 |
| T 9 | 15 7 28 | 18°20'11 | 3♉14 | 9°24 | 11°14 | 16°41 | 24°40 | 22°34 | 14° 1 | 20°52 | 10°34 | 27°R35 | 26°43 | 26°23 | 15°19 | T 9 |
| W10 | 15 11 25 | 19°18'04 | 17°50 | 10°42 | 12°27 | 17° 7 | 24°53 | 22°41 | 14° 4 | 20°52 | 10°35 | 27°34 | 26°40 | 26°30 | 15°22 | W10 |
| T 11 | 15 15 21 | 20°15'55 | 2♊13 | 11°57 | 13°40 | 17°33 | 25° 7 | 22°48 | 14° 7 | 20°53 | 10°36 | 27°32 | 26°37 | 26°36 | 15°25 | T 11 |
| F 12 | 15 19 18 | 21°13'45 | 16°18 | 13° 7 | 14°53 | 18° 0 | 25°21 | 22°55 | 14°10 | 20°53 | 10°37 | 27°29 | 26°34 | 26°43 | 15°28 | F 12 |
| S 13 | 15 23 15 | 22°11'34 | 29°59 | 14°13 | 16° 6 | 18°27 | 25°35 | 23° 2 | 14°13 | 20°54 | 10°38 | 27°25 | 26°31 | 26°50 | 15°31 | S 13 |
| S 14 | 15 27 11 | 23° 9'20 | 13♋18 | 15°15 | 17°19 | 18°54 | 25°48 | 23°10 | 14°16 | 20°54 | 10°39 | 27°22 | 26°27 | 26°56 | 15°34 | S 14 |
| M15 | 15 31 8 | 24° 7'06 | 26°13 | 16°13 | 18°32 | 19°21 | 26° 2 | 23°17 | 14°19 | 20°54 | 10°40 | 27°18 | 26°24 | 27° 3 | 15°37 | M15 |
| T 16 | 15 35 4 | 25° 4'49 | 8♌47 | 17° 7 | 19°44 | 19°48 | 26°15 | 23°24 | 14°22 | 20°55 | 10°41 | 27°16 | 26°21 | 27°10 | 15°40 | T 16 |
| W17 | 15 39 1 | 26° 2'31 | 21° 2 | 17°56 | 20°57 | 20°16 | 26°29 | 23°31 | 14°24 | 20°55 | 10°43 | 27°D15 | 26°18 | 27°16 | 15°43 | W17 |
| T 18 | 15 42 57 | 27° 0'11 | 3♍ 4 | 18°41 | 22°10 | 20°44 | 26°42 | 23°39 | 14°27 | 20°55 | 10°44 | 27°15 | 26°15 | 27°23 | 15°46 | T 18 |
| F 19 | 15 46 54 | 27°57'50 | 14°57 | 19°22 | 23°23 | 21°12 | 26°55 | 23°46 | 14°30 | 20°55 | 10°45 | 27°16 | 26°12 | 27°30 | 15°49 | F 19 |
| S 20 | 15 50 50 | 28°55'27 | 26°47 | 19°58 | 24°35 | 21°40 | 27° 9 | 23°53 | 14°32 | 20°55 | 10°46 | 27°18 | 26° 8 | 27°36 | 15°52 | S 20 |
| S 21 | 15 54 47 | 29°53'02 | 8♎37 | 20°29 | 25°48 | 22° 8 | 27°22 | 24° 1 | 14°35 | 20°55 | 10°47 | 27°19 | 26° 5 | 27°43 | 15°55 | S 21 |
| M22 | 15 58 44 | 0♊50'37 | 20°32 | 20°56 | 27° 1 | 22°37 | 27°35 | 24° 8 | 14°38 | 20°55 | 10°49 | 27°21 | 26° 2 | 27°50 | 15°58 | M22 |
| T 23 | 16 2 40 | 1°48'10 | 2♏36 | 21°19 | 28°13 | 23° 6 | 27°48 | 24°15 | 14°40 | 20°55 | 10°50 | 27°R21 | 25°59 | 27°56 | 16° 1 | T 23 |
| W24 | 16 6 37 | 2°45'41 | 14°53 | 21°36 | 29°26 | 23°35 | 28° 1 | 24°23 | 14°43 | 20°R55 | 10°51 | 27°19 | 25°56 | 28° 3 | 16° 4 | W24 |
| T 25 | 16 10 33 | 3°43'12 | 27°23 | 21°49 | 0♋38 | 24° 4 | 28°15 | 24°30 | 14°45 | 20°55 | 10°52 | 27°16 | 25°52 | 28°10 | 16° 6 | T 25 |
| F 26 | 16 14 30 | 4°40'41 | 10♐ 8 | 21°57 | 1°51 | 24°33 | 28°28 | 24°38 | 14°48 | 20°55 | 10°54 | 27°11 | 25°49 | 28°16 | 16° 9 | F 26 |
| S 27 | 16 18 26 | 5°38'10 | 23° 9 | 22°R 1 | 3° 3 | 25° 2 | 28°40 | 24°45 | 14°50 | 20°55 | 10°55 | 27° 6 | 25°46 | 28°23 | 16°12 | S 27 |
| S 28 | 16 22 23 | 6°35'37 | 6♋25 | 22° 0 | 4°15 | 25°32 | 28°53 | 24°53 | 14°53 | 20°55 | 10°56 | 26°59 | 25°43 | 28°30 | 16°14 | S 28 |
| M29 | 16 26 19 | 7°33'04 | 19°54 | 21°54 | 5°28 | 26° 2 | 29° 6 | 25° 1 | 14°55 | 20°55 | 10°57 | 26°53 | 25°40 | 28°36 | 16°17 | M29 |
| T 30 | 16 30 16 | 8°30'30 | 3♒34 | 21°45 | 6°40 | 26°32 | 29°19 | 25° 8 | 14°58 | 20°55 | 10°59 | 26°48 | 25°37 | 28°43 | 16°20 | T 30 |
| W31 | 16 34 13 | 9♊27'55 | 17♒25 | 21♊31 | 7♋52 | 27♌ 2 | 29♈31 | 25♊16 | 15♈ 0 | 20♒55 | 11♋ 0 | 26♎44 | 25♎33 | 28♍50 | 16♈22 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 15n 2 | 18s 7 | 5n 1 | 21n21 | 1n55 | 20n57 | 0n28 | 18n46 | 2n 1 | 7n53 | 1s 5 | 22n14 | 0s59 | 4n47 | 0s38 | 14s54 | 0s20 | 21n45 | 1s19 | 10s37 | 10s28 | 0s41 | 7n17 | 1n32 |
| T 2 | 15 20 | 16 19 | 5 16 | 21 52 | 2 2 | 21 14 | 0 31 | 18 38 | 1 59 | 7 58 | 1 5 | 22 15 | 0 59 | 4 49 | 0 38 | 14 54 | 0 20 | 21 45 | 1 19 | 10 37 | 10 27 | 0 43 | 7 18 | 1 32 |
| W 3 | 15 38 | 13 35 | 5 13 | 22 20 | 2 8 | 21 31 | 0 34 | 18 29 | 1 58 | 8 3 | 1 5 | 22 16 | 0 58 | 4 50 | 0 38 | 14 54 | 0 20 | 21 45 | 1 19 | 10 36 | 10 26 | 0 45 | 7 19 | 1 32 |
| T 4 | 15 55 | 10 2 | 4 51 | 22 46 | 2 14 | 21 47 | 0 36 | 18 21 | 1 56 | 8 8 | 1 5 | 22 16 | 0 58 | 4 51 | 0 38 | 14 54 | 0 20 | 21 45 | 1 19 | 10 36 | 10 25 | 0 47 | 7 21 | 1 32 |
| F 5 | 16 12 | 5 51 | 4 12 | 23 10 | 2 18 | 22 2 | 0 39 | 18 12 | 1 55 | 8 13 | 1 5 | 22 17 | 0 58 | 4 52 | 0 38 | 14 53 | 0 20 | 21 45 | 1 19 | 10 37 | 10 24 | 0 49 | 7 22 | 1 32 |
| S 6 | 16 29 | 1 15 | 3 16 | 23 31 | 2 22 | 22 17 | 0 41 | 18 3 | 1 54 | 8 18 | 1 5 | 22 17 | 0 58 | 4 53 | 0 38 | 14 53 | 0 20 | 21 45 | 1 19 | 10 37 | 10 23 | 0 51 | 7 23 | 1 32 |
| S 7 | 16 46 | 3n29 | 2 8 | 23 49 | 2 25 | 22 31 | 0 44 | 17 54 | 1 52 | 8 23 | 1 5 | 22 18 | 0 58 | 4 55 | 0 38 | 14 53 | 0 20 | 21 45 | 1 19 | 10 37 | 10 21 | 0 53 | 7 24 | 1 32 |
| M 8 | 17 3 | 8 3 | 0 50 | 24 6 | 2 26 | 22 45 | 0 46 | 17 45 | 1 51 | 8 28 | 1 5 | 22 18 | 0 58 | 4 56 | 0 38 | 14 53 | 0 20 | 21 45 | 1 19 | 10 38 | 10 20 | 0 55 | 7 26 | 1 32 |
| T 9 | 17 19 | 12 8 | 0s31 | 24 20 | 2 28 | 22 58 | 0 49 | 17 36 | 1 49 | 8 33 | 1 5 | 22 19 | 0 58 | 4 57 | 0 38 | 14 53 | 0 20 | 21 45 | 1 19 | 10 38 | 10 19 | 0 57 | 7 27 | 1 32 |
| W10 | 17 35 | 15 25 | 1 50 | 24 31 | 2 28 | 23 10 | 0 51 | 17 27 | 1 48 | 8 38 | 1 5 | 22 19 | 0 57 | 4 58 | 0 39 | 14 53 | 0 20 | 21 45 | 1 19 | 10 37 | 10 18 | 0 59 | 7 28 | 1 32 |
| T 11 | 17 50 | 17 42 | 3 0 | 24 41 | 2 27 | 23 22 | 0 54 | 17 17 | 1 46 | 8 43 | 1 5 | 22 20 | 0 57 | 4 59 | 0 39 | 14 52 | 0 20 | 21 45 | 1 19 | 10 37 | 10 17 | 1 1 | 7 29 | 1 32 |
| F 12 | 18 6 | 18 50 | 3 57 | 24 49 | 2 25 | 23 33 | 0 56 | 17 8 | 1 45 | 8 48 | 1 5 | 22 20 | 0 57 | 5 0 | 0 39 | 14 52 | 0 20 | 21 45 | 1 19 | 10 36 | 10 16 | 1 3 | 7 31 | 1 32 |
| S 13 | 18 21 | 18 50 | 4 39 | 24 54 | 2 23 | 23 43 | 0 58 | 16 58 | 1 44 | 8 53 | 1 5 | 22 21 | 0 57 | 5 1 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 34 | 10 15 | 1 5 | 7 32 | 1 32 |
| S 14 | 18 36 | 17 45 | 5 5 | 24 58 | 2 19 | 23 53 | 1 1 | 16 48 | 1 42 | 8 58 | 1 6 | 22 21 | 0 57 | 5 2 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 33 | 10 13 | 1 7 | 7 33 | 1 32 |
| M15 | 18 50 | 15 48 | 5 14 | 25 0 | 2 15 | 24 2 | 1 3 | 16 39 | 1 41 | 9 3 | 1 6 | 22 22 | 0 57 | 5 4 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 32 | 10 12 | 1 9 | 7 34 | 1 32 |
| T 16 | 19 4 | 13 8 | 5 8 | 25 0 | 2 9 | 24 10 | 1 5 | 16 29 | 1 40 | 9 8 | 1 6 | 22 22 | 0 57 | 5 5 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 31 | 10 11 | 1 11 | 7 35 | 1 32 |
| W17 | 19 18 | 9 58 | 4 48 | 24 58 | 2 3 | 24 17 | 1 7 | 16 19 | 1 38 | 9 13 | 1 6 | 22 23 | 0 56 | 5 6 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 31 | 10 10 | 1 13 | 7 36 | 1 32 |
| T 18 | 19 31 | 6 26 | 4 15 | 24 55 | 1 56 | 24 24 | 1 10 | 16 9 | 1 37 | 9 17 | 1 6 | 22 23 | 0 56 | 5 7 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 31 | 10 9 | 1 14 | 7 38 | 1 32 |
| F 19 | 19 44 | 2 41 | 3 32 | 24 50 | 1 47 | 24 30 | 1 12 | 15 58 | 1 36 | 9 22 | 1 6 | 22 24 | 0 56 | 5 8 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 31 | 10 8 | 1 16 | 7 39 | 1 32 |
| S 20 | 19 57 | 1s10 | 2 40 | 24 44 | 1 38 | 24 36 | 1 14 | 15 48 | 1 35 | 9 27 | 1 6 | 22 24 | 0 56 | 5 9 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 32 | 10 7 | 1 18 | 7 40 | 1 32 |
| S 21 | 20 10 | 4 58 | 1 41 | 24 36 | 1 28 | 24 41 | 1 16 | 15 38 | 1 33 | 9 32 | 1 6 | 22 25 | 0 56 | 5 10 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 32 | 10 5 | 1 20 | 7 41 | 1 32 |
| M22 | 20 22 | 8 36 | 0 37 | 24 27 | 1 17 | 24 45 | 1 18 | 15 27 | 1 32 | 9 36 | 1 6 | 22 25 | 0 56 | 5 11 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 33 | 10 4 | 1 22 | 7 42 | 1 32 |
| T 23 | 20 33 | 11 57 | 0n29 | 24 17 | 1 5 | 24 48 | 1 20 | 15 16 | 1 31 | 9 41 | 1 6 | 22 26 | 0 56 | 5 12 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 33 | 10 3 | 1 24 | 7 43 | 1 32 |
| W24 | 20 45 | 14 49 | 1 34 | 24 5 | 0 53 | 24 51 | 1 22 | 15 6 | 1 30 | 9 46 | 1 6 | 22 26 | 0 56 | 5 13 | 0 39 | 14 52 | 0 20 | 21 45 | 1 18 | 10 32 | 10 2 | 1 26 | 7 44 | 1 32 |
| T 25 | 20 56 | 17 4 | 2 36 | 23 53 | 0 39 | 24 52 | 1 24 | 14 55 | 1 28 | 9 50 | 1 6 | 22 26 | 0 56 | 5 14 | 0 39 | 14 52 | 0 20 | 21 45 | 1 17 | 10 31 | 10 1 | 1 28 | 7 45 | 1 31 |
| F 26 | 21 6 | 18 31 | 3 32 | 23 39 | 0 25 | 24 54 | 1 26 | 14 44 | 1 27 | 9 55 | 1 6 | 22 27 | 0 55 | 5 15 | 0 39 | 14 52 | 0 20 | 21 45 | 1 17 | 10 29 | 10 0 | 1 30 | 7 46 | 1 31 |
| S 27 | 21 17 | 19 1 | 4 18 | 23 24 | 0 10 | 24 54 | 1 27 | 14 33 | 1 26 | 9 59 | 1 6 | 22 27 | 0 55 | 5 16 | 0 39 | 14 52 | 0 20 | 21 45 | 1 17 | 10 27 | 9 58 | 1 32 | 7 47 | 1 31 |
| S 28 | 21 27 | 18 29 | 4 50 | 23 8 | 0s 6 | 24 54 | 1 29 | 14 22 | 1 25 | 10 4 | 1 6 | 22 28 | 0 55 | 5 17 | 0 39 | 14 52 | 0 20 | 21 45 | 1 17 | 10 25 | 9 57 | 1 34 | 7 48 | 1 31 |
| M29 | 21 36 | 16 56 | 5 8 | 22 52 | 0 22 | 24 53 | 1 31 | 14 10 | 1 24 | 10 8 | 1 7 | 22 28 | 0 55 | 5 17 | 0 39 | 14 52 | 0 20 | 21 45 | 1 17 | 10 23 | 9 56 | 1 36 | 7 49 | 1 31 |
| T 30 | 21 46 | 14 24 | 5 8 | 22 35 | 0 39 | 24 51 | 1 33 | 13 59 | 1 22 | 10 13 | 1 7 | 22 28 | 0 55 | 5 18 | 0 39 | 14 52 | 0 20 | 21 45 | 1 17 | 10 21 | 9 55 | 1 38 | 7 50 | 1 31 |
| W31 | 21n54 | 11s 2 | 4n50 | 22n17 | 0s56 | 24n49 | 1n34 | 13n48 | 1n21 | 10n17 | 1s 7 | 22n29 | 0s55 | 5n19 | 0s39 | 14s52 | 0s20 | 21n45 | 1s17 | 10s19 | 9s54 | 1s40 | 7n51 | 1n31 |

Julian Day Number = 2334422.5, Delta T = 24.04 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'51, Lahiri = 19°22'51Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## JUNE 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 38 9 | 10♊25'19 | 1♓24 | 21°R13 | 9♋ 5 | 27♌32 | 29♈44 | 25♊23 | 15♈ 2 | 20°R54 | 11♋ 1 | 26°R42 | 25♎30 | 28♍56 | 16♈25 | T 1 |
| F 2 | 16 42 6 | 11°22'43 | 15°31 | 20♊52 | 10°17 | 28° 2 | 29°57 | 25°31 | 15° 4 | 20♒54 | 11° 3 | 26°D42 | 25°27 | 29° 3 | 16°27 | F 2 |
| S 3 | 16 46 2 | 12°20'06 | 29°43 | 20°27 | 11°29 | 28°33 | 0♉ 9 | 25°39 | 15° 7 | 20°54 | 11° 4 | 26♎43 | 25°24 | 29°10 | 16°30 | S 3 |
| S 4 | 16 49 59 | 13°17'29 | 13♈59 | 20° 0 | 12°41 | 29° 4 | 0°21 | 25°47 | 15° 9 | 20°53 | 11° 6 | 26°44 | 25°21 | 29°16 | 16°32 | S 4 |
| M 5 | 16 53 55 | 14°14'51 | 28°17 | 19°30 | 13°53 | 29°35 | 0°34 | 25°54 | 15°11 | 20°53 | 11° 7 | 26°R44 | 25°18 | 29°23 | 16°34 | M 5 |
| T 6 | 16 57 52 | 15°12'12 | 12♉33 | 18°59 | 15° 5 | 0♍ 6 | 0°46 | 26° 2 | 15°13 | 20°53 | 11° 8 | 26°43 | 25°14 | 29°30 | 16°37 | T 6 |
| W 7 | 17 1 48 | 16° 9'33 | 26°45 | 18°26 | 16°17 | 0°37 | 0°58 | 26°10 | 15°15 | 20°52 | 11°10 | 26°40 | 25°11 | 29°36 | 16°39 | W 7 |
| T 8 | 17 5 45 | 17° 6'54 | 10♊47 | 17°53 | 17°29 | 1° 8 | 1°10 | 26°18 | 15°17 | 20°52 | 11°11 | 26°35 | 25° 8 | 29°43 | 16°41 | T 8 |
| F 9 | 17 9 42 | 18° 4'14 | 24°36 | 17°19 | 18°41 | 1°40 | 1°22 | 26°25 | 15°19 | 20°51 | 11°13 | 26°27 | 25° 5 | 29°49 | 16°43 | F 9 |
| S 10 | 17 13 38 | 19° 1'33 | 8♋ 8 | 16°45 | 19°53 | 2°11 | 1°34 | 26°33 | 15°21 | 20°51 | 11°14 | 26°19 | 25° 2 | 29°56 | 16°45 | S 10 |
| S 11 | 17 17 35 | 19°58'52 | 21°21 | 16°13 | 21° 4 | 2°43 | 1°46 | 26°41 | 15°23 | 20°50 | 11°16 | 26°10 | 24°58 | 0♎ 3 | 16°47 | S 11 |
| M12 | 17 21 31 | 20°56'09 | 4♌13 | 15°42 | 22°16 | 3°15 | 1°58 | 26°49 | 15°25 | 20°50 | 11°17 | 26° 1 | 24°55 | 0° 9 | 16°49 | M12 |
| T 13 | 17 25 28 | 21°53'26 | 16°45 | 15°13 | 23°28 | 3°47 | 2° 9 | 26°57 | 15°27 | 20°49 | 11°18 | 25°54 | 24°52 | 0°16 | 16°51 | T 13 |
| W14 | 17 29 24 | 22°50'42 | 29° 0 | 14°47 | 24°40 | 4°19 | 2°21 | 27° 4 | 15°28 | 20°48 | 11°20 | 25°49 | 24°49 | 0°23 | 16°53 | W14 |
| T 15 | 17 33 21 | 23°47'58 | 11♍ 2 | 14°24 | 25°51 | 4°51 | 2°33 | 27°12 | 15°30 | 20°48 | 11°21 | 25°47 | 24°46 | 0°29 | 16°55 | T 15 |
| F 16 | 17 37 17 | 24°45'12 | 22°56 | 14° 4 | 27° 3 | 5°24 | 2°44 | 27°20 | 15°32 | 20°47 | 11°23 | 25°D46 | 24°43 | 0°36 | 16°57 | F 16 |
| S 17 | 17 41 14 | 25°42'26 | 4♎45 | 13°47 | 28°14 | 5°56 | 2°55 | 27°28 | 15°33 | 20°46 | 11°24 | 25°46 | 24°39 | 0°43 | 16°59 | S 17 |
| S 18 | 17 45 11 | 26°39'40 | 16°36 | 13°35 | 29°26 | 6°29 | 3° 7 | 27°36 | 15°35 | 20°45 | 11°26 | 25°47 | 24°36 | 0°49 | 17° 1 | S 18 |
| M19 | 17 49 7 | 27°36'52 | 28°33 | 13°27 | 0♌37 | 7° 2 | 3°18 | 27°44 | 15°37 | 20°45 | 11°27 | 25°R47 | 24°33 | 0°56 | 17° 2 | M19 |
| T 20 | 17 53 4 | 28°34'05 | 10♏42 | 13°D23 | 1°48 | 7°35 | 3°29 | 27°51 | 15°38 | 20°44 | 11°29 | 25°46 | 24°30 | 1° 3 | 17° 4 | T 20 |
| W21 | 17 57 0 | 29°31'16 | 23° 7 | 13°24 | 3° 0 | 8° 8 | 3°40 | 27°59 | 15°40 | 20°43 | 11°30 | 25°43 | 24°27 | 1° 9 | 17° 6 | W21 |
| T 22 | 18 0 57 | 0♋28'28 | 5♐50 | 13°30 | 4°11 | 8°41 | 3°50 | 28° 7 | 15°41 | 20°42 | 11°32 | 25°37 | 24°23 | 1°16 | 17° 7 | T 22 |
| F 23 | 18 4 53 | 1°25'39 | 18°53 | 13°41 | 5°22 | 9°14 | 4° 1 | 28°15 | 15°42 | 20°41 | 11°34 | 25°29 | 24°20 | 1°23 | 17° 9 | F 23 |
| S 24 | 18 8 50 | 2°22'49 | 2♑15 | 13°56 | 6°33 | 9°47 | 4°12 | 28°23 | 15°44 | 20°40 | 11°35 | 25°19 | 24°17 | 1°29 | 17°10 | S 24 |
| S 25 | 18 12 46 | 3°20'00 | 15°56 | 14°16 | 7°44 | 10°21 | 4°22 | 28°30 | 15°45 | 20°39 | 11°37 | 25° 9 | 24°14 | 1°36 | 17°12 | S 25 |
| M26 | 18 16 43 | 4°17'10 | 29°51 | 14°41 | 8°55 | 10°54 | 4°33 | 28°38 | 15°46 | 20°38 | 11°38 | 24°58 | 24°11 | 1°43 | 17°13 | M26 |
| T 27 | 18 20 40 | 5°14'21 | 13♒56 | 15°11 | 10° 6 | 11°28 | 4°43 | 28°46 | 15°48 | 20°37 | 11°40 | 24°49 | 24° 8 | 1°49 | 17°14 | T 27 |
| W28 | 18 24 36 | 6°11'31 | 28° 7 | 15°46 | 11°17 | 12° 2 | 4°53 | 28°54 | 15°49 | 20°36 | 11°41 | 24°42 | 24° 4 | 1°56 | 17°16 | W28 |
| T 29 | 18 28 33 | 7° 8'42 | 12♓20 | 16°25 | 12°28 | 12°36 | 5° 4 | 29° 2 | 15°50 | 20°35 | 11°43 | 24°38 | 24° 1 | 2° 3 | 17°17 | T 29 |
| F 30 | 18 32 29 | 8♋ 5'53 | 26♓32 | 17♊ 9 | 13♌38 | 13♍10 | 5♉14 | 29♊ 9 | 15♈51 | 20♒34 | 11♋44 | 24♎36 | 23♎58 | 2♎ 9 | 17♈18 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 3 | 7s 1 | 4n15 | 21n59 | 1s13 | 24n45 | 1n36 | 13n36 | 1n20 | 10n21 | 1s 7 | 22n29 | 0s55 | 5n20 | 0s39 | 14s52 | 0s21 | 21n45 | 1s17 | 10s19 | 9s53 | 1s42 | 7n52 | 1n31 |
| F 2 | 22 11 | 2 35 | 3 24 | 21 40 | 1 30 | 24 41 | 1 37 | 13 24 | 1 19 | 10 26 | 1 7 | 22 30 | 0 55 | 5 21 | 0 39 | 14 53 | 0 21 | 21 45 | 1 17 | 10 19 | 9 51 | 1 43 | 7 53 | 1 31 |
| S 3 | 22 19 | 2n 2 | 2 21 | 21 21 | 1 47 | 24 37 | 1 38 | 13 13 | 1 18 | 10 30 | 1 7 | 22 30 | 0 55 | 5 22 | 0 39 | 14 53 | 0 21 | 21 44 | 1 17 | 10 19 | 9 50 | 1 45 | 7 54 | 1 31 |
| S 4 | 22 26 | 6 34 | 1 8 | 21 2 | 2 4 | 24 32 | 1 40 | 13 1 | 1 17 | 10 34 | 1 7 | 22 30 | 0 54 | 5 23 | 0 39 | 14 53 | 0 21 | 21 44 | 1 17 | 10 19 | 9 49 | 1 47 | 7 55 | 1 31 |
| M 5 | 22 33 | 10 45 | 0s 8 | 20 43 | 2 21 | 24 26 | 1 41 | 12 49 | 1 15 | 10 38 | 1 7 | 22 31 | 0 54 | 5 23 | 0 39 | 14 53 | 0 21 | 21 44 | 1 17 | 10 19 | 9 48 | 1 49 | 7 56 | 1 31 |
| T 6 | 22 39 | 14 17 | 1 24 | 20 25 | 2 37 | 24 19 | 1 42 | 12 37 | 1 14 | 10 43 | 1 7 | 22 31 | 0 54 | 5 24 | 0 39 | 14 53 | 0 21 | 21 44 | 1 17 | 10 19 | 9 47 | 1 51 | 7 57 | 1 31 |
| W 7 | 22 45 | 16 57 | 2 35 | 20 6 | 2 53 | 24 11 | 1 43 | 12 25 | 1 13 | 10 47 | 1 7 | 22 31 | 0 54 | 5 25 | 0 39 | 14 53 | 0 21 | 21 44 | 1 16 | 10 18 | 9 46 | 1 53 | 7 58 | 1 31 |
| T 8 | 22 51 | 18 34 | 3 35 | 19 49 | 3 7 | 24 3 | 1 44 | 12 13 | 1 12 | 10 51 | 1 7 | 22 32 | 0 54 | 5 26 | 0 39 | 14 53 | 0 21 | 21 44 | 1 16 | 10 16 | 9 45 | 1 55 | 7 58 | 1 31 |
| F 9 | 22 57 | 19 2 | 4 21 | 19 32 | 3 21 | 23 55 | 1 45 | 12 0 | 1 11 | 10 55 | 1 8 | 22 32 | 0 54 | 5 26 | 0 39 | 14 54 | 0 21 | 21 44 | 1 16 | 10 13 | 9 43 | 1 57 | 7 59 | 1 31 |
| S 10 | 23 1 | 18 23 | 4 51 | 19 16 | 3 34 | 23 45 | 1 46 | 11 48 | 1 10 | 10 59 | 1 8 | 22 32 | 0 54 | 5 27 | 0 39 | 14 54 | 0 21 | 21 44 | 1 16 | 10 10 | 9 42 | 1 59 | 8 0 | 1 31 |
| S 11 | 23 6 | 16 45 | 5 5 | 19 2 | 3 45 | 23 35 | 1 47 | 11 36 | 1 9 | 11 3 | 1 8 | 22 32 | 0 54 | 5 28 | 0 39 | 14 54 | 0 21 | 21 44 | 1 16 | 10 7 | 9 41 | 2 1 | 8 1 | 1 31 |
| M12 | 23 10 | 14 19 | 5 3 | 18 48 | 3 55 | 23 24 | 1 48 | 11 23 | 1 8 | 11 7 | 1 8 | 22 33 | 0 54 | 5 29 | 0 39 | 14 54 | 0 21 | 21 44 | 1 16 | 10 4 | 9 40 | 2 3 | 8 2 | 1 31 |
| T 13 | 23 14 | 11 17 | 4 46 | 18 37 | 4 4 | 23 13 | 1 48 | 11 10 | 1 7 | 11 11 | 1 8 | 22 33 | 0 54 | 5 29 | 0 39 | 14 54 | 0 21 | 21 44 | 1 16 | 10 1 | 9 39 | 2 5 | 8 2 | 1 31 |
| W14 | 23 17 | 7 49 | 4 17 | 18 26 | 4 12 | 23 1 | 1 49 | 10 58 | 1 6 | 11 15 | 1 8 | 22 33 | 0 53 | 5 30 | 0 39 | 14 55 | 0 21 | 21 44 | 1 16 | 10 0 | 9 38 | 2 6 | 8 3 | 1 31 |
| T 15 | 23 20 | 4 6 | 3 36 | 18 18 | 4 18 | 22 48 | 1 49 | 10 45 | 1 5 | 11 18 | 1 8 | 22 34 | 0 53 | 5 31 | 0 39 | 14 55 | 0 21 | 21 44 | 1 16 | 9 59 | 9 36 | 2 8 | 8 4 | 1 31 |
| F 16 | 23 22 | 0 16 | 2 47 | 18 11 | 4 23 | 22 35 | 1 50 | 10 32 | 1 4 | 11 22 | 1 8 | 22 34 | 0 53 | 5 31 | 0 39 | 14 55 | 0 21 | 21 44 | 1 16 | 9 58 | 9 35 | 2 10 | 8 5 | 1 31 |
| S 17 | 23 25 | 3s35 | 1 50 | 18 5 | 4 26 | 22 21 | 1 50 | 10 19 | 1 3 | 11 26 | 1 8 | 22 34 | 0 53 | 5 32 | 0 39 | 14 55 | 0 21 | 21 44 | 1 16 | 9 58 | 9 34 | 2 12 | 8 5 | 1 31 |
| S 18 | 23 26 | 7 17 | 0 49 | 18 2 | 4 28 | 22 6 | 1 51 | 10 6 | 1 2 | 11 30 | 1 9 | 22 34 | 0 53 | 5 32 | 0 39 | 14 56 | 0 21 | 21 44 | 1 16 | 9 59 | 9 33 | 2 14 | 8 6 | 1 31 |
| M19 | 23 27 | 10 45 | 0n15 | 18 0 | 4 29 | 21 51 | 1 51 | 9 53 | 1 1 | 11 33 | 1 9 | 22 34 | 0 53 | 5 33 | 0 39 | 14 56 | 0 21 | 21 44 | 1 16 | 9 59 | 9 32 | 2 16 | 8 7 | 1 31 |
| T 20 | 23 28 | 13 49 | 1 19 | 18 1 | 4 28 | 21 35 | 1 51 | 9 40 | 0 59 | 11 37 | 1 9 | 22 35 | 0 53 | 5 34 | 0 39 | 14 56 | 0 21 | 21 44 | 1 16 | 9 58 | 9 31 | 2 18 | 8 7 | 1 31 |
| W21 | 23 29 | 16 19 | 2 21 | 18 3 | 4 26 | 21 19 | 1 51 | 9 26 | 0 58 | 11 41 | 1 9 | 22 35 | 0 53 | 5 34 | 0 39 | 14 57 | 0 21 | 21 44 | 1 16 | 9 57 | 9 29 | 2 20 | 8 8 | 1 31 |
| T 22 | 23 29 | 18 5 | 3 17 | 18 7 | 4 23 | 21 2 | 1 51 | 9 13 | 0 57 | 11 44 | 1 9 | 22 35 | 0 53 | 5 35 | 0 39 | 14 57 | 0 21 | 21 43 | 1 15 | 9 55 | 9 28 | 2 22 | 8 9 | 1 31 |
| F 23 | 23 28 | 18 58 | 4 4 | 18 12 | 4 18 | 20 45 | 1 51 | 9 0 | 0 56 | 11 48 | 1 9 | 22 35 | 0 53 | 5 35 | 0 39 | 14 57 | 0 21 | 21 43 | 1 15 | 9 52 | 9 27 | 2 24 | 8 9 | 1 31 |
| S 24 | 23 27 | 18 49 | 4 39 | 18 19 | 4 13 | 20 27 | 1 50 | 8 46 | 0 55 | 11 51 | 1 9 | 22 35 | 0 53 | 5 36 | 0 39 | 14 57 | 0 21 | 21 43 | 1 15 | 9 49 | 9 26 | 2 26 | 8 10 | 1 31 |
| S 25 | 23 26 | 17 35 | 4 59 | 18 28 | 4 7 | 20 8 | 1 50 | 8 32 | 0 54 | 11 55 | 1 9 | 22 36 | 0 53 | 5 36 | 0 39 | 14 58 | 0 21 | 21 43 | 1 15 | 9 45 | 9 25 | 2 27 | 8 10 | 1 31 |
| M26 | 23 25 | 15 18 | 5 2 | 18 38 | 4 0 | 19 49 | 1 50 | 8 19 | 0 53 | 11 58 | 1 10 | 22 36 | 0 53 | 5 37 | 0 40 | 14 58 | 0 21 | 21 43 | 1 15 | 9 41 | 9 24 | 2 29 | 8 11 | 1 32 |
| T 27 | 23 22 | 12 6 | 4 46 | 18 49 | 3 51 | 19 30 | 1 49 | 8 5 | 0 53 | 12 1 | 1 10 | 22 36 | 0 52 | 5 37 | 0 40 | 14 58 | 0 21 | 21 43 | 1 15 | 9 38 | 9 22 | 2 31 | 8 11 | 1 32 |
| W28 | 23 20 | 8 11 | 4 13 | 19 2 | 3 43 | 19 10 | 1 49 | 7 51 | 0 52 | 12 5 | 1 10 | 22 36 | 0 52 | 5 37 | 0 40 | 14 59 | 0 21 | 21 43 | 1 15 | 9 35 | 9 21 | 2 33 | 8 12 | 1 32 |
| T 29 | 23 17 | 3 48 | 3 24 | 19 15 | 3 33 | 18 49 | 1 48 | 7 37 | 0 51 | 12 8 | 1 10 | 22 36 | 0 52 | 5 38 | 0 40 | 14 59 | 0 21 | 21 43 | 1 15 | 9 33 | 9 20 | 2 35 | 8 12 | 1 32 |
| F 30 | 23n14 | 0n48 | 2n23 | 19n30 | 3s23 | 18n28 | 1n47 | 7n23 | 0n50 | 12n11 | 1s10 | 22n36 | 0s52 | 5n38 | 0s40 | 15s 0 | 0s21 | 21n43 | 1s15 | 9s33 | 9s19 | 2s37 | 8n13 | 1n32 |

Julian Day Number = 2334453.5, Delta T = 24.00 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'55, Lahiri = 19°22'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## JULY 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 36 26 | 9♋ 3'04 | 10♈41 | 17♊58 | 14♌49 | 13♍44 | 5♉24 | 29♊17 | 15♈52 | 20°R33 | 11♋46 | 24°D35 | 23♎55 | 2♎16 | 17♈19 | S 1 |
| S 2 | 18 40 22 | 10° 0'16 | 24°46 | 18°52 | 16° 0 | 14°18 | 5°33 | 29°25 | 15°53 | 20♒32 | 11°47 | 24°R36 | 23°52 | 2°23 | 17°20 | S 2 |
| M 3 | 18 44 19 | 10°57'28 | 8♉46 | 19°50 | 17°10 | 14°52 | 5°43 | 29°33 | 15°54 | 20°31 | 11°49 | 24♎35 | 23°49 | 2°29 | 17°21 | M 3 |
| T 4 | 18 48 15 | 11°54'40 | 22°40 | 20°52 | 18°21 | 15°27 | 5°53 | 29°40 | 15°55 | 20°30 | 11°50 | 24°33 | 23°45 | 2°36 | 17°22 | T 4 |
| W 5 | 18 52 12 | 12°51'53 | 6♊26 | 21°59 | 19°31 | 16° 1 | 6° 2 | 29°48 | 15°56 | 20°28 | 11°52 | 24°28 | 23°42 | 2°43 | 17°23 | W 5 |
| T 6 | 18 56 9 | 13°49'06 | 20° 4 | 23°10 | 20°41 | 16°36 | 6°11 | 29°56 | 15°56 | 20°27 | 11°54 | 24°20 | 23°39 | 2°49 | 17°24 | T 6 |
| F 7 | 19 0 5 | 14°46'20 | 3♋31 | 24°26 | 21°52 | 17°11 | 6°20 | 0♋ 4 | 15°57 | 20°26 | 11°55 | 24° 9 | 23°36 | 2°56 | 17°25 | F 7 |
| S 8 | 19 4 2 | 15°43'34 | 16°44 | 25°45 | 23° 2 | 17°46 | 6°30 | 0°11 | 15°58 | 20°25 | 11°57 | 23°57 | 23°33 | 3° 3 | 17°25 | S 8 |
| S 9 | 19 7 58 | 16°40'48 | 29°42 | 27° 9 | 24°12 | 18°21 | 6°38 | 0°19 | 15°58 | 20°23 | 11°58 | 23°45 | 23°29 | 3° 9 | 17°26 | S 9 |
| M10 | 19 11 55 | 17°38'02 | 12♌24 | 28°37 | 25°22 | 18°56 | 6°47 | 0°27 | 15°59 | 20°22 | 12° 0 | 23°33 | 23°26 | 3°16 | 17°27 | M10 |
| T 11 | 19 15 51 | 18°35'17 | 24°49 | 0♋ 9 | 26°32 | 19°31 | 6°56 | 0°34 | 16° 0 | 20°21 | 12° 1 | 23°22 | 23°23 | 3°23 | 17°27 | T 11 |
| W12 | 19 19 48 | 19°32'32 | 7♍ 0 | 1°45 | 27°42 | 20° 6 | 7° 5 | 0°42 | 16° 0 | 20°19 | 12° 3 | 23°14 | 23°20 | 3°29 | 17°28 | W12 |
| T 13 | 19 23 44 | 20°29'47 | 19° 0 | 3°25 | 28°52 | 20°41 | 7°13 | 0°49 | 16° 0 | 20°18 | 12° 4 | 23° 9 | 23°17 | 3°36 | 17°28 | T 13 |
| F 14 | 19 27 41 | 21°27'02 | 0♎51 | 5° 8 | 0♍ 2 | 21°17 | 7°21 | 0°57 | 16° 1 | 20°17 | 12° 6 | 23° 6 | 23°14 | 3°42 | 17°29 | F 14 |
| S 15 | 19 31 38 | 22°24'17 | 12°39 | 6°54 | 1°11 | 21°52 | 7°29 | 1° 4 | 16° 1 | 20°15 | 12° 7 | 23° 5 | 23°10 | 3°49 | 17°29 | S 15 |
| S 16 | 19 35 34 | 23°21'33 | 24°30 | 8°44 | 2°21 | 22°28 | 7°37 | 1°12 | 16° 2 | 20°14 | 12° 9 | 23° 5 | 23° 7 | 3°56 | 17°29 | S 16 |
| M17 | 19 39 31 | 24°18'49 | 6♏27 | 10°37 | 3°30 | 23° 4 | 7°45 | 1°19 | 16° 2 | 20°12 | 12°10 | 23° 4 | 23° 4 | 4° 2 | 17°30 | M17 |
| T 18 | 19 43 27 | 25°16'05 | 18°38 | 12°32 | 4°40 | 23°40 | 7°53 | 1°27 | 16° 2 | 20°11 | 12°12 | 23° 3 | 23° 1 | 4° 9 | 17°30 | T 18 |
| W19 | 19 47 24 | 26°13'22 | 1♐ 6 | 14°30 | 5°49 | 24°16 | 8° 1 | 1°34 | 16° 2 | 20°10 | 12°14 | 23° 0 | 22°58 | 4°16 | 17°30 | W19 |
| T 20 | 19 51 20 | 27°10'39 | 13°56 | 16°30 | 6°58 | 24°52 | 8° 8 | 1°41 | 16° 2 | 20° 8 | 12°15 | 22°54 | 22°55 | 4°22 | 17°30 | T 20 |
| F 21 | 19 55 17 | 28° 7'56 | 27°10 | 18°32 | 8° 7 | 25°28 | 8°15 | 1°49 | 16° 2 | 20° 7 | 12°17 | 22°45 | 22°51 | 4°29 | 17°R30 | F 21 |
| S 22 | 19 59 13 | 29° 5'14 | 10♑48 | 20°36 | 9°16 | 26° 4 | 8°23 | 1°56 | 16°R 2 | 20° 5 | 12°18 | 22°35 | 22°48 | 4°36 | 17°30 | S 22 |
| S 23 | 20 3 10 | 0♌ 2'33 | 24°49 | 22°40 | 10°25 | 26°40 | 8°30 | 2° 3 | 16° 2 | 20° 4 | 12°20 | 22°24 | 22°45 | 4°42 | 17°30 | S 23 |
| M24 | 20 7 7 | 0°59'52 | 9♒ 8 | 24°46 | 11°34 | 27°17 | 8°36 | 2°10 | 16° 2 | 20° 2 | 12°21 | 22°12 | 22°42 | 4°49 | 17°30 | M24 |
| T 25 | 20 11 3 | 1°57'13 | 23°38 | 26°52 | 12°43 | 27°53 | 8°43 | 2°18 | 16° 2 | 20° 1 | 12°22 | 22° 2 | 22°39 | 4°56 | 17°30 | T 25 |
| W26 | 20 15 0 | 2°54'34 | 8♓14 | 28°58 | 13°51 | 28°29 | 8°50 | 2°25 | 16° 2 | 19°59 | 12°24 | 21°55 | 22°35 | 5° 2 | 17°29 | W26 |
| T 27 | 20 18 56 | 3°51'56 | 22°49 | 1♌ 4 | 15° 0 | 29° 6 | 8°56 | 2°32 | 16° 2 | 19°58 | 12°25 | 21°50 | 22°32 | 5° 9 | 17°29 | T 27 |
| F 28 | 20 22 53 | 4°49'19 | 7♈16 | 3° 9 | 16° 8 | 29°43 | 9° 2 | 2°39 | 16° 1 | 19°56 | 12°27 | 21°47 | 22°29 | 5°16 | 17°29 | F 28 |
| S 29 | 20 26 49 | 5°46'43 | 21°34 | 5°15 | 17°16 | 0♎20 | 9° 8 | 2°46 | 16° 1 | 19°54 | 12°28 | 21°D47 | 22°26 | 5°22 | 17°28 | S 29 |
| S 30 | 20 30 46 | 6°44'09 | 5♉39 | 7°19 | 18°25 | 0°56 | 9°14 | 2°53 | 16° 1 | 19°53 | 12°30 | 21°R47 | 22°23 | 5°29 | 17°28 | S 30 |
| M31 | 20 34 42 | 7♌41'36 | 19♉31 | 9♌23 | 19♍33 | 1♎33 | 9♉20 | 3♋ 0 | 16♈ 0 | 19♒51 | 12♋31 | 21♎47 | 22♎20 | 5♎36 | 17♈28 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n10 | 5n21 | 1n13 | 19n45 | 3s12 | 18n 7 | 1n46 | 7n 9 | 0n49 | 12n14 | 1s10 | 22n36 | 0s52 | 5n39 | 0s40 | 15s 0 | 0s21 | 21n43 | 1s15 | 9s33 | 9s18 | 2s39 | 8n13 | 1n32 |
| S 2 | 23 6 | 9 35 | 0s 1 | 20 1 | 3 1 | 17 45 | 1 45 | 6 55 | 0 48 | 12 17 | 1 10 | 22 37 | 0 52 | 5 39 | 0 40 | 15 0 | 0 21 | 21 43 | 1 15 | 9 33 | 9 16 | 2 41 | 8 14 | 1 32 |
| M 3 | 23 2 | 13 16 | 1 14 | 20 17 | 2 49 | 17 22 | 1 44 | 6 41 | 0 47 | 12 20 | 1 11 | 22 37 | 0 52 | 5 39 | 0 40 | 15 1 | 0 21 | 21 43 | 1 15 | 9 32 | 9 15 | 2 43 | 8 14 | 1 32 |
| T 4 | 22 57 | 16 10 | 2 23 | 20 33 | 2 37 | 17 0 | 1 43 | 6 27 | 0 46 | 12 23 | 1 11 | 22 37 | 0 52 | 5 40 | 0 40 | 15 1 | 0 21 | 21 43 | 1 15 | 9 32 | 9 14 | 2 45 | 8 14 | 1 32 |
| W 5 | 22 51 | 18 6 | 3 22 | 20 50 | 2 24 | 16 36 | 1 42 | 6 13 | 0 45 | 12 26 | 1 11 | 22 37 | 0 52 | 5 40 | 0 40 | 15 1 | 0 21 | 21 42 | 1 15 | 9 30 | 9 13 | 2 46 | 8 15 | 1 32 |
| T 6 | 22 46 | 18 58 | 4 9 | 21 7 | 2 11 | 16 13 | 1 41 | 5 58 | 0 44 | 12 29 | 1 11 | 22 37 | 0 52 | 5 40 | 0 40 | 15 2 | 0 21 | 21 42 | 1 15 | 9 27 | 9 12 | 2 48 | 8 15 | 1 32 |
| F 7 | 22 39 | 18 44 | 4 42 | 21 23 | 1 58 | 15 49 | 1 39 | 5 44 | 0 43 | 12 32 | 1 11 | 22 37 | 0 52 | 5 40 | 0 40 | 15 2 | 0 21 | 21 42 | 1 15 | 9 23 | 9 11 | 2 50 | 8 15 | 1 32 |
| S 8 | 22 33 | 17 30 | 4 58 | 21 39 | 1 45 | 15 24 | 1 38 | 5 29 | 0 42 | 12 35 | 1 11 | 22 37 | 0 52 | 5 41 | 0 40 | 15 3 | 0 21 | 21 42 | 1 14 | 9 19 | 9 9 | 2 52 | 8 16 | 1 32 |
| S 9 | 22 26 | 15 22 | 4 59 | 21 55 | 1 32 | 14 59 | 1 36 | 5 15 | 0 41 | 12 38 | 1 12 | 22 37 | 0 52 | 5 41 | 0 40 | 15 3 | 0 21 | 21 42 | 1 14 | 9 14 | 9 8 | 2 54 | 8 16 | 1 32 |
| M10 | 22 19 | 12 33 | 4 45 | 22 10 | 1 19 | 14 34 | 1 35 | 5 0 | 0 40 | 12 40 | 1 12 | 22 37 | 0 52 | 5 41 | 0 40 | 15 4 | 0 21 | 21 42 | 1 14 | 9 9 | 9 7 | 2 56 | 8 16 | 1 32 |
| T 11 | 22 11 | 9 14 | 4 17 | 22 24 | 1 5 | 14 9 | 1 33 | 4 46 | 0 39 | 12 43 | 1 12 | 22 37 | 0 52 | 5 41 | 0 40 | 15 4 | 0 21 | 21 42 | 1 14 | 9 6 | 9 6 | 2 58 | 8 16 | 1 32 |
| W12 | 22 3 | 5 34 | 3 38 | 22 36 | 0 52 | 13 43 | 1 31 | 4 31 | 0 38 | 12 46 | 1 12 | 22 37 | 0 52 | 5 41 | 0 40 | 15 4 | 0 21 | 21 42 | 1 14 | 9 3 | 9 5 | 3 0 | 8 17 | 1 32 |
| T 13 | 21 55 | 1 45 | 2 50 | 22 47 | 0 39 | 13 17 | 1 29 | 4 16 | 0 38 | 12 48 | 1 12 | 22 37 | 0 51 | 5 42 | 0 40 | 15 5 | 0 21 | 21 42 | 1 14 | 9 1 | 9 4 | 3 2 | 8 17 | 1 32 |
| F 14 | 21 46 | 2s 6 | 1 55 | 22 57 | 0 26 | 12 50 | 1 27 | 4 1 | 0 37 | 12 51 | 1 12 | 22 37 | 0 51 | 5 42 | 0 40 | 15 5 | 0 21 | 21 42 | 1 14 | 9 0 | 9 2 | 3 3 | 8 17 | 1 32 |
| S 15 | 21 37 | 5 51 | 0 55 | 23 5 | 0 13 | 12 23 | 1 25 | 3 47 | 0 36 | 12 53 | 1 12 | 22 37 | 0 51 | 5 42 | 0 40 | 15 6 | 0 21 | 21 42 | 1 14 | 8 59 | 9 1 | 3 5 | 8 17 | 1 32 |
| S 16 | 21 27 | 9 23 | 0n 8 | 23 10 | 0 1 | 11 56 | 1 23 | 3 32 | 0 35 | 12 56 | 1 13 | 22 37 | 0 51 | 5 42 | 0 40 | 15 6 | 0 21 | 21 42 | 1 14 | 8 59 | 9 0 | 3 7 | 8 17 | 1 32 |
| M17 | 21 17 | 12 35 | 1 10 | 23 14 | 0n11 | 11 29 | 1 20 | 3 17 | 0 34 | 12 58 | 1 13 | 22 37 | 0 51 | 5 42 | 0 40 | 15 7 | 0 21 | 21 42 | 1 14 | 8 59 | 8 59 | 3 9 | 8 17 | 1 32 |
| T 18 | 21 7 | 15 18 | 2 11 | 23 15 | 0 22 | 11 1 | 1 18 | 3 2 | 0 33 | 13 1 | 1 13 | 22 37 | 0 51 | 5 42 | 0 40 | 15 7 | 0 21 | 21 41 | 1 14 | 8 58 | 8 58 | 3 11 | 8 18 | 1 32 |
| W19 | 20 56 | 17 22 | 3 7 | 23 14 | 0 33 | 10 34 | 1 15 | 2 47 | 0 32 | 13 3 | 1 13 | 22 37 | 0 51 | 5 42 | 0 40 | 15 8 | 0 21 | 21 41 | 1 14 | 8 57 | 8 56 | 3 13 | 8 18 | 1 32 |
| T 20 | 20 45 | 18 37 | 3 55 | 23 10 | 0 43 | 10 6 | 1 13 | 2 32 | 0 31 | 13 5 | 1 13 | 22 37 | 0 51 | 5 42 | 0 40 | 15 8 | 0 21 | 21 41 | 1 14 | 8 55 | 8 55 | 3 15 | 8 18 | 1 32 |
| F 21 | 20 34 | 18 55 | 4 32 | 23 3 | 0 52 | 9 37 | 1 10 | 2 16 | 0 31 | 13 7 | 1 14 | 22 37 | 0 51 | 5 42 | 0 40 | 15 9 | 0 22 | 21 41 | 1 14 | 8 52 | 8 54 | 3 17 | 8 18 | 1 32 |
| S 22 | 20 22 | 18 8 | 4 55 | 22 54 | 1 1 | 9 9 | 1 7 | 2 1 | 0 30 | 13 9 | 1 14 | 22 37 | 0 51 | 5 42 | 0 40 | 15 9 | 0 22 | 21 41 | 1 14 | 8 48 | 8 53 | 3 18 | 8 18 | 1 32 |
| S 23 | 20 10 | 16 16 | 5 1 | 22 42 | 1 9 | 8 40 | 1 4 | 1 46 | 0 29 | 13 11 | 1 14 | 22 37 | 0 51 | 5 42 | 0 40 | 15 10 | 0 22 | 21 41 | 1 14 | 8 44 | 8 52 | 3 20 | 8 18 | 1 32 |
| M24 | 19 58 | 13 22 | 4 48 | 22 28 | 1 16 | 8 11 | 1 1 | 1 31 | 0 28 | 13 13 | 1 14 | 22 37 | 0 51 | 5 42 | 0 40 | 15 10 | 0 22 | 21 41 | 1 14 | 8 40 | 8 51 | 3 22 | 8 18 | 1 32 |
| T 25 | 19 45 | 9 37 | 4 17 | 22 10 | 1 23 | 7 42 | 0 58 | 1 16 | 0 27 | 13 15 | 1 14 | 22 37 | 0 51 | 5 42 | 0 40 | 15 11 | 0 22 | 21 41 | 1 14 | 8 36 | 8 49 | 3 24 | 8 18 | 1 32 |
| W26 | 19 32 | 5 16 | 3 29 | 21 51 | 1 29 | 7 13 | 0 55 | 1 0 | 0 26 | 13 17 | 1 14 | 22 37 | 0 51 | 5 42 | 0 40 | 15 11 | 0 22 | 21 41 | 1 14 | 8 33 | 8 48 | 3 26 | 8 17 | 1 32 |
| T 27 | 19 19 | 0 36 | 2 27 | 21 28 | 1 33 | 6 43 | 0 52 | 0 45 | 0 25 | 13 19 | 1 15 | 22 36 | 0 51 | 5 42 | 0 40 | 15 12 | 0 22 | 21 41 | 1 13 | 8 31 | 8 47 | 3 28 | 8 17 | 1 32 |
| F 28 | 19 5 | 4n 3 | 1 16 | 21 4 | 1 37 | 6 14 | 0 49 | 0 29 | 0 25 | 13 21 | 1 15 | 22 36 | 0 51 | 5 41 | 0 40 | 15 12 | 0 22 | 21 41 | 1 13 | 8 30 | 8 46 | 3 30 | 8 17 | 1 32 |
| S 29 | 18 51 | 8 26 | 0 1 | 20 37 | 1 41 | 5 44 | 0 45 | 0 14 | 0 24 | 13 23 | 1 15 | 22 36 | 0 51 | 5 41 | 0 40 | 15 13 | 0 22 | 21 40 | 1 13 | 8 30 | 8 45 | 3 32 | 8 17 | 1 32 |
| S 30 | 18 37 | 12 17 | 1s13 | 20 8 | 1 43 | 5 14 | 0 42 | 0s 1 | 0 23 | 13 24 | 1 15 | 22 36 | 0 51 | 5 41 | 0 40 | 15 13 | 0 22 | 21 40 | 1 13 | 8 30 | 8 43 | 3 33 | 8 17 | 1 32 |
| M31 | 18n23 | 15n22 | 2s22 | 19n37 | 1n45 | 4n44 | 0n38 | 0s17 | 0n22 | 13n26 | 1s15 | 22n36 | 0s51 | 5n41 | 0s41 | 15s14 | 0s22 | 21n40 | 1s13 | 8s30 | 8s42 | 3s35 | 8n17 | 1n32 |

Julian Day Number = 2334483.5, Delta T = 23.95 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'59, Lahiri = 19°23'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## AUGUST 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 38 39 | 8♌39'04 | 3♊11 | 11♌25 | 20♍41 | 2♎10 | 9♉26 | 3♋ 7 | 16°R 0 | 19°R50 | 12♋33 | 21°R44 | 22♎16 | 5♎42 | 17°R27 | T 1 |
| W 2 | 20 42 36 | 9°36'34 | 16°39 | 13°27 | 21°48 | 2°48 | 9°31 | 3°14 | 15♈59 | 19♒48 | 12°34 | 21♎40 | 22°13 | 5°49 | 17♈26 | W 2 |
| T 3 | 20 46 32 | 10°34'05 | 29°55 | 15°27 | 22°56 | 3°25 | 9°36 | 3°20 | 15°59 | 19°46 | 12°35 | 21°33 | 22°10 | 5°56 | 17°26 | T 3 |
| F 4 | 20 50 29 | 11°31'37 | 13♋ 0 | 17°25 | 24° 4 | 4° 2 | 9°41 | 3°27 | 15°58 | 19°45 | 12°37 | 21°23 | 22° 7 | 6° 2 | 17°25 | F 4 |
| S 5 | 20 54 25 | 12°29'10 | 25°52 | 19°23 | 25°11 | 4°40 | 9°46 | 3°34 | 15°57 | 19°43 | 12°38 | 21°12 | 22° 4 | 6° 9 | 17°24 | S 5 |
| S 6 | 20 58 22 | 13°26'45 | 8♌31 | 21°19 | 26°18 | 5°17 | 9°51 | 3°41 | 15°57 | 19°42 | 12°40 | 21° 0 | 22° 1 | 6°15 | 17°23 | S 6 |
| M 7 | 21 2 18 | 14°24'21 | 20°58 | 23°13 | 27°26 | 5°55 | 9°56 | 3°47 | 15°56 | 19°40 | 12°41 | 20°49 | 21°57 | 6°22 | 17°22 | M 7 |
| T 8 | 21 6 15 | 15°21'58 | 3♍13 | 25° 6 | 28°33 | 6°32 | 10° 0 | 3°54 | 15°55 | 19°38 | 12°42 | 20°39 | 21°54 | 6°29 | 17°22 | T 8 |
| W 9 | 21 10 11 | 16°19'35 | 15°16 | 26°58 | 29°40 | 7°10 | 10° 4 | 4° 0 | 15°54 | 19°37 | 12°44 | 20°31 | 21°51 | 6°35 | 17°21 | W 9 |
| T 10 | 21 14 8 | 17°17'14 | 27°11 | 28°48 | 0♎46 | 7°48 | 10° 8 | 4° 7 | 15°53 | 19°35 | 12°45 | 20°26 | 21°48 | 6°42 | 17°20 | T 10 |
| F 11 | 21 18 5 | 18°14'55 | 9♎ 0 | 0♍37 | 1°53 | 8°26 | 10°12 | 4°13 | 15°52 | 19°33 | 12°46 | 20°23 | 21°45 | 6°49 | 17°18 | F 11 |
| S 12 | 21 22 1 | 19°12'36 | 20°46 | 2°24 | 2°59 | 9° 4 | 10°16 | 4°20 | 15°51 | 19°32 | 12°47 | 20°D22 | 21°41 | 6°55 | 17°17 | S 12 |
| S 13 | 21 25 58 | 20°10'18 | 2♏35 | 4°10 | 4° 6 | 9°42 | 10°19 | 4°26 | 15°50 | 19°30 | 12°49 | 20°23 | 21°38 | 7° 2 | 17°16 | S 13 |
| M14 | 21 29 54 | 21° 8'02 | 14°32 | 5°54 | 5°12 | 10°20 | 10°22 | 4°32 | 15°49 | 19°29 | 12°50 | 20°24 | 21°35 | 7° 9 | 17°15 | M14 |
| T 15 | 21 33 51 | 22° 5'46 | 26°41 | 7°37 | 6°18 | 10°58 | 10°25 | 4°38 | 15°48 | 19°27 | 12°51 | 20°R24 | 21°32 | 7°15 | 17°14 | T 15 |
| W16 | 21 37 47 | 23° 3'32 | 9♐ 8 | 9°18 | 7°24 | 11°37 | 10°28 | 4°44 | 15°47 | 19°25 | 12°53 | 20°22 | 21°29 | 7°22 | 17°12 | W16 |
| T 17 | 21 41 44 | 24° 1'19 | 21°58 | 10°59 | 8°29 | 12°15 | 10°31 | 4°50 | 15°46 | 19°24 | 12°54 | 20°19 | 21°26 | 7°29 | 17°11 | T 17 |
| F 18 | 21 45 40 | 24°59'07 | 5♑14 | 12°37 | 9°35 | 12°53 | 10°34 | 4°56 | 15°45 | 19°22 | 12°55 | 20°14 | 21°22 | 7°35 | 17° 9 | F 18 |
| S 19 | 21 49 37 | 25°56'56 | 18°57 | 14°15 | 10°40 | 13°32 | 10°36 | 5° 2 | 15°43 | 19°20 | 12°56 | 20° 6 | 21°19 | 7°42 | 17° 8 | S 19 |
| S 20 | 21 53 34 | 26°54'47 | 3♒ 8 | 15°50 | 11°45 | 14°11 | 10°38 | 5° 8 | 15°42 | 19°19 | 12°57 | 19°58 | 21°16 | 7°49 | 17° 6 | S 20 |
| M21 | 21 57 30 | 27°52'39 | 17°41 | 17°25 | 12°50 | 14°49 | 10°40 | 5°14 | 15°41 | 19°17 | 12°59 | 19°50 | 21°13 | 7°55 | 17° 5 | M21 |
| T 22 | 22 1 27 | 28°50'32 | 2♓31 | 18°58 | 13°55 | 15°28 | 10°42 | 5°20 | 15°39 | 19°16 | 13° 0 | 19°43 | 21°10 | 8° 2 | 17° 3 | T 22 |
| W23 | 22 5 23 | 29°48'27 | 17°29 | 20°30 | 14°59 | 16° 7 | 10°43 | 5°25 | 15°38 | 19°14 | 13° 1 | 19°37 | 21° 7 | 8° 9 | 17° 2 | W23 |
| T 24 | 22 9 20 | 0♍46'24 | 2♈26 | 22° 1 | 16° 3 | 16°46 | 10°45 | 5°31 | 15°36 | 19°12 | 13° 2 | 19°34 | 21° 3 | 8°15 | 17° 0 | T 24 |
| F 25 | 22 13 16 | 1°44'22 | 17°14 | 23°30 | 17° 7 | 17°25 | 10°46 | 5°36 | 15°35 | 19°11 | 13° 3 | 19°D33 | 21° 0 | 8°22 | 16°58 | F 25 |
| S 26 | 22 17 13 | 2°42'23 | 1♉48 | 24°58 | 18°11 | 18° 4 | 10°47 | 5°42 | 15°33 | 19° 9 | 13° 4 | 19°33 | 20°57 | 8°28 | 16°56 | S 26 |
| S 27 | 22 21 9 | 3°40'25 | 16° 4 | 26°24 | 19°15 | 18°43 | 10°48 | 5°47 | 15°32 | 19° 8 | 13° 5 | 19°35 | 20°54 | 8°35 | 16°54 | S 27 |
| M28 | 22 25 6 | 4°38'29 | 0♊ 1 | 27°49 | 20°18 | 19°22 | 10°48 | 5°53 | 15°30 | 19° 6 | 13° 6 | 19°R35 | 20°51 | 8°42 | 16°53 | M28 |
| T 29 | 22 29 3 | 5°36'35 | 13°37 | 29°12 | 21°21 | 20° 2 | 10°49 | 5°58 | 15°28 | 19° 4 | 13° 7 | 19°35 | 20°47 | 8°48 | 16°51 | T 29 |
| W30 | 22 32 59 | 6°34'44 | 26°56 | 0♎35 | 22°24 | 20°41 | 10°R49 | 6° 3 | 15°26 | 19° 3 | 13° 8 | 19°33 | 20°44 | 8°55 | 16°49 | W30 |
| T 31 | 22 36 56 | 7♍32'54 | 9♋58 | 1♎55 | 23♎27 | 21♎20 | 10♉49 | 6♋ 8 | 15♈25 | 19♒ 1 | 13♋ 9 | 19♎30 | 20♎41 | 9♎ 2 | 16♈47 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 18n 8 | 17n32 | 3s21 | 19n 5 | 1n46 | 4n14 | 0n35 | 0s32 | 0n21 | 13n28 | 1s16 | 22n36 | 0s51 | 5n41 | 0s41 | 15s14 | 0s22 | 21n40 | 1s13 | 8s29 | 8s41 | 3s37 | 8n17 | 1n32 | |
| W 2 | 17 52 | 18 41 | 4 8 | 18 31 | 1 46 | 3 44 | 0 31 | 0 48 | 0 21 | 13 29 | 1 16 | 22 36 | 0 51 | 5 41 | 0 41 | 15 15 | 0 22 | 21 40 | 1 13 | 8 27 | 8 40 | 3 39 | 8 16 | 1 32 | |
| T 3 | 17 37 | 18 47 | 4 41 | 17 55 | 1 46 | 3 13 | 0 27 | 1 3 | 0 20 | 13 31 | 1 16 | 22 36 | 0 51 | 5 40 | 0 41 | 15 15 | 0 22 | 21 40 | 1 13 | 8 25 | 8 39 | 3 41 | 8 16 | 1 32 | |
| F 4 | 17 21 | 17 53 | 4 59 | 17 18 | 1 45 | 2 43 | 0 23 | 1 19 | 0 19 | 13 32 | 1 16 | 22 36 | 0 51 | 5 40 | 0 41 | 15 16 | 0 22 | 21 40 | 1 13 | 8 21 | 8 38 | 3 43 | 8 16 | 1 32 | |
| S 5 | 17 5 | 16 4 | 5 1 | 16 40 | 1 44 | 2 13 | 0 19 | 1 35 | 0 18 | 13 33 | 1 16 | 22 35 | 0 50 | 5 40 | 0 41 | 15 16 | 0 22 | 21 40 | 1 13 | 8 17 | 8 36 | 3 45 | 8 15 | 1 32 | |
| S 6 | 16 49 | 13 31 | 4 49 | 16 1 | 1 41 | 1 42 | 0 15 | 1 50 | 0 17 | 13 35 | 1 17 | 22 35 | 0 50 | 5 39 | 0 41 | 15 17 | 0 22 | 21 40 | 1 13 | 8 12 | 8 35 | 3 46 | 8 15 | 1 32 | |
| M 7 | 16 32 | 10 23 | 4 22 | 15 21 | 1 39 | 1 12 | 0 11 | 2 6 | 0 16 | 13 36 | 1 17 | 22 35 | 0 50 | 5 39 | 0 41 | 15 17 | 0 22 | 21 40 | 1 13 | 8 8 | 8 34 | 3 48 | 8 15 | 1 32 | |
| T 8 | 16 15 | 6 52 | 3 44 | 14 40 | 1 36 | 0 41 | 0 7 | 2 22 | 0 16 | 13 37 | 1 17 | 22 35 | 0 50 | 5 39 | 0 41 | 15 18 | 0 22 | 21 40 | 1 13 | 8 4 | 8 33 | 3 50 | 8 14 | 1 32 | |
| W 9 | 15 58 | 3 6 | 2 56 | 13 59 | 1 32 | 0 11 | 0 3 | 2 37 | 0 15 | 13 38 | 1 17 | 22 35 | 0 50 | 5 38 | 0 41 | 15 18 | 0 22 | 21 40 | 1 13 | 8 2 | 8 32 | 3 52 | 8 14 | 1 32 | |
| T 10 | 15 41 | 0s43 | 2 1 | 13 17 | 1 28 | 0s20 | 0s 2 | 2 53 | 0 14 | 13 39 | 1 17 | 22 35 | 0 50 | 5 38 | 0 41 | 15 19 | 0 22 | 21 39 | 1 13 | 8 0 | 8 30 | 3 54 | 8 14 | 1 32 | |
| F 11 | 15 23 | 4 30 | 1 1 | 12 34 | 1 23 | 0 51 | 0 6 | 3 9 | 0 13 | 13 40 | 1 18 | 22 34 | 0 50 | 5 38 | 0 41 | 15 19 | 0 22 | 21 39 | 1 13 | 7 59 | 8 29 | 3 56 | 8 13 | 1 32 | |
| S 12 | 15 5 | 8 5 | 0n 2 | 11 51 | 1 18 | 1 21 | 0 11 | 3 24 | 0 13 | 13 41 | 1 18 | 22 34 | 0 50 | 5 37 | 0 41 | 15 20 | 0 22 | 21 39 | 1 13 | 7 58 | 8 28 | 3 58 | 8 13 | 1 32 | |
| S 13 | 14 47 | 11 22 | 1 5 | 11 8 | 1 13 | 1 52 | 0 15 | 3 40 | 0 12 | 13 42 | 1 18 | 22 34 | 0 50 | 5 37 | 0 41 | 15 20 | 0 22 | 21 39 | 1 13 | 7 59 | 8 27 | 3 59 | 8 12 | 1 32 | |
| M14 | 14 29 | 14 13 | 2 6 | 10 24 | 1 8 | 2 22 | 0 20 | 3 56 | 0 11 | 13 43 | 1 18 | 22 34 | 0 50 | 5 36 | 0 41 | 15 21 | 0 22 | 21 39 | 1 13 | 7 59 | 8 26 | 4 1 | 8 12 | 1 32 | |
| T 15 | 14 10 | 16 29 | 3 2 | 9 41 | 1 2 | 2 53 | 0 24 | 4 11 | 0 10 | 13 44 | 1 18 | 22 34 | 0 50 | 5 36 | 0 41 | 15 21 | 0 22 | 21 39 | 1 13 | 7 59 | 8 24 | 4 3 | 8 11 | 1 32 | |
| W16 | 13 51 | 18 3 | 3 51 | 8 57 | 0 55 | 3 23 | 0 29 | 4 27 | 0 9 | 13 45 | 1 19 | 22 33 | 0 50 | 5 35 | 0 41 | 15 22 | 0 22 | 21 39 | 1 13 | 7 58 | 8 23 | 4 5 | 8 11 | 1 32 | |
| T 17 | 13 32 | 18 44 | 4 30 | 8 13 | 0 49 | 3 54 | 0 34 | 4 43 | 0 9 | 13 45 | 1 19 | 22 33 | 0 50 | 5 35 | 0 41 | 15 23 | 0 22 | 21 39 | 1 13 | 7 57 | 8 22 | 4 7 | 8 10 | 1 32 | |
| F 18 | 13 13 | 18 26 | 4 56 | 7 29 | 0 42 | 4 24 | 0 39 | 4 59 | 0 8 | 13 46 | 1 19 | 22 33 | 0 50 | 5 35 | 0 41 | 15 23 | 0 22 | 21 39 | 1 13 | 7 55 | 8 21 | 4 9 | 8 10 | 1 32 | |
| S 19 | 12 53 | 17 4 | 5 7 | 6 45 | 0 35 | 4 54 | 0 44 | 5 14 | 0 7 | 13 46 | 1 19 | 22 33 | 0 50 | 5 34 | 0 41 | 15 24 | 0 22 | 21 39 | 1 12 | 7 52 | 8 20 | 4 11 | 8 9 | 1 32 | |
| S 20 | 12 34 | 14 38 | 4 59 | 6 1 | 0 28 | 5 24 | 0 49 | 5 30 | 0 6 | 13 47 | 1 19 | 22 33 | 0 50 | 5 33 | 0 41 | 15 24 | 0 22 | 21 39 | 1 12 | 7 49 | 8 19 | 4 12 | 8 9 | 1 32 | |
| M21 | 12 14 | 11 15 | 4 32 | 5 17 | 0 20 | 5 54 | 0 54 | 5 46 | 0 6 | 13 47 | 1 20 | 22 32 | 0 50 | 5 33 | 0 41 | 15 25 | 0 22 | 21 39 | 1 12 | 7 46 | 8 17 | 4 14 | 8 8 | 1 32 | |
| T 22 | 11 54 | 7 5 | 3 46 | 4 34 | 0 13 | 6 24 | 0 59 | 6 1 | 0 5 | 13 48 | 1 20 | 22 32 | 0 50 | 5 32 | 0 41 | 15 25 | 0 22 | 21 39 | 1 12 | 7 43 | 8 16 | 4 16 | 8 7 | 1 32 | |
| W23 | 11 33 | 2 26 | 2 44 | 3 51 | 0 5 | 6 54 | 1 4 | 6 17 | 0 4 | 13 48 | 1 20 | 22 32 | 0 50 | 5 32 | 0 41 | 15 26 | 0 22 | 21 38 | 1 12 | 7 41 | 8 15 | 4 18 | 8 7 | 1 32 | |
| T 24 | 11 13 | 2n22 | 1 31 | 3 8 | 0s 3 | 7 23 | 1 9 | 6 33 | 0 3 | 13 48 | 1 20 | 22 32 | 0 50 | 5 31 | 0 41 | 15 26 | 0 22 | 21 38 | 1 12 | 7 40 | 8 14 | 4 20 | 8 6 | 1 32 | |
| F 25 | 10 52 | 6 58 | 0 13 | 2 25 | 0 11 | 7 53 | 1 14 | 6 48 | 0 3 | 13 48 | 1 20 | 22 32 | 0 50 | 5 31 | 0 41 | 15 27 | 0 22 | 21 38 | 1 12 | 7 40 | 8 13 | 4 22 | 8 5 | 1 32 | |
| S 26 | 10 32 | 11 5 | 1s 6 | 1 43 | 0 19 | 8 22 | 1 20 | 7 4 | 0 2 | 13 48 | 1 21 | 22 31 | 0 50 | 5 30 | 0 41 | 15 27 | 0 22 | 21 38 | 1 12 | 7 40 | 8 11 | 4 23 | 8 5 | 1 32 | |
| S 27 | 10 11 | 14 28 | 2 19 | 1 1 | 0 28 | 8 51 | 1 25 | 7 20 | 0 1 | 13 48 | 1 21 | 22 31 | 0 50 | 5 29 | 0 41 | 15 28 | 0 22 | 21 38 | 1 12 | 7 40 | 8 10 | 4 25 | 8 4 | 1 32 | |
| M28 | 9 49 | 16 54 | 3 21 | 0 19 | 0 36 | 9 20 | 1 30 | 7 35 | 0 0 | 13 48 | 1 21 | 22 31 | 0 50 | 5 29 | 0 41 | 15 28 | 0 22 | 21 38 | 1 12 | 7 41 | 8 9 | 4 27 | 8 3 | 1 32 | |
| T 29 | 9 28 | 18 19 | 4 11 | 0s22 | 0 45 | 9 49 | 1 36 | 7 51 | 0s 0 | 13 48 | 1 21 | 22 31 | 0 50 | 5 28 | 0 41 | 15 29 | 0 22 | 21 38 | 1 12 | 7 41 | 8 8 | 4 29 | 8 2 | 1 32 | |
| W30 | 9 7 | 18 40 | 4 46 | 1 3 | 0 53 | 10 18 | 1 41 | 8 6 | 0 1 | 13 48 | 1 21 | 22 31 | 0 50 | 5 27 | 0 41 | 15 29 | 0 22 | 21 38 | 1 12 | 7 40 | 8 7 | 4 31 | 8 2 | 1 32 | |
| T 31 | 8n45 | 18n 1 | 5s 6 | 1s43 | 1s 2 | 10s46 | 1s47 | 8s22 | 0s 2 | 13n48 | 1s22 | 22n30 | 0s50 | 5n27 | 0s41 | 15s30 | 0s22 | 21n38 | 1s12 | 7s38 | 8s 5 | 4s33 | 8n 1 | 1n32 | |

Julian Day Number = 2334514.5, Delta T = 23.90 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'04, Lahiri = 19°23'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## SEPTEMBER 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 40 52 | 8♍31'06 | 22♋45 | 3♎14 | 24♎29 | 22♎ 0 | 10°R49 | 6♋13 | 15°R23 | 19°R 0 | 13♋10 | 19°R24 | 20♎38 | 9♎ 8 | 16°R45 | F 1 |
| S 2 | 22 44 49 | 9°29'20 | 5♌19 | 4°32 | 25°31 | 22°40 | 10♉48 | 6°18 | 15♈21 | 18♒58 | 13°11 | 19♎18 | 20°35 | 9°15 | 16♈43 | S 2 |
| S 3 | 22 48 45 | 10°27'36 | 17°42 | 5°48 | 26°33 | 23°19 | 10°48 | 6°23 | 15°19 | 18°57 | 13°12 | 19°10 | 20°32 | 9°22 | 16°40 | S 3 |
| M 4 | 22 52 42 | 11°25'54 | 29°54 | 7° 2 | 27°35 | 23°59 | 10°47 | 6°28 | 15°17 | 18°55 | 13°13 | 19° 4 | 20°28 | 9°28 | 16°38 | M 4 |
| T 5 | 22 56 38 | 12°24'14 | 11♍57 | 8°15 | 28°36 | 24°39 | 10°46 | 6°32 | 15°16 | 18°54 | 13°14 | 18°58 | 20°25 | 9°35 | 16°36 | T 5 |
| W 6 | 23 0 35 | 13°22'35 | 23°53 | 9°25 | 29°37 | 25°19 | 10°44 | 6°37 | 15°14 | 18°52 | 13°15 | 18°53 | 20°22 | 9°42 | 16°34 | W 6 |
| T 7 | 23 4 32 | 14°20'59 | 5♎42 | 10°34 | 0♏38 | 25°59 | 10°43 | 6°41 | 15°12 | 18°51 | 13°16 | 18°51 | 20°19 | 9°48 | 16°32 | T 7 |
| F 8 | 23 8 28 | 15°19'24 | 17°29 | 11°41 | 1°38 | 26°39 | 10°41 | 6°46 | 15°10 | 18°49 | 13°17 | 18°D50 | 20°16 | 9°55 | 16°29 | F 8 |
| S 9 | 23 12 25 | 16°17'51 | 29°15 | 12°45 | 2°38 | 27°19 | 10°40 | 6°50 | 15° 8 | 18°48 | 13°17 | 18°50 | 20°12 | 10° 1 | 16°27 | S 9 |
| S 10 | 23 16 21 | 17°16'19 | 11♏ 5 | 13°48 | 3°37 | 27°59 | 10°38 | 6°54 | 15° 6 | 18°47 | 13°18 | 18°52 | 20° 9 | 10° 8 | 16°25 | S 10 |
| M11 | 23 20 18 | 18°14'50 | 23° 1 | 14°47 | 4°37 | 28°40 | 10°35 | 6°58 | 15° 3 | 18°45 | 13°19 | 18°54 | 20° 6 | 10°15 | 16°22 | M11 |
| T 12 | 23 24 14 | 19°13'22 | 5♐10 | 15°45 | 5°36 | 29°20 | 10°33 | 7° 3 | 15° 1 | 18°44 | 13°20 | 18°55 | 20° 3 | 10°21 | 16°20 | T 12 |
| W13 | 23 28 11 | 20°11'55 | 17°35 | 16°39 | 6°34 | 0♏ 1 | 10°30 | 7° 7 | 14°59 | 18°43 | 13°21 | 18°R56 | 20° 0 | 10°28 | 16°17 | W13 |
| T 14 | 23 32 7 | 21°10'31 | 0♑21 | 17°30 | 7°32 | 0°41 | 10°27 | 7°10 | 14°57 | 18°41 | 13°21 | 18°56 | 19°57 | 10°35 | 16°15 | T 14 |
| F 15 | 23 36 4 | 22° 9'08 | 13°32 | 18°19 | 8°30 | 1°22 | 10°24 | 7°14 | 14°55 | 18°40 | 13°22 | 18°54 | 19°53 | 10°41 | 16°12 | F 15 |
| S 16 | 23 40 0 | 23° 7'46 | 27°10 | 19° 3 | 9°27 | 2° 2 | 10°21 | 7°18 | 14°53 | 18°39 | 13°23 | 18°51 | 19°50 | 10°48 | 16°10 | S 16 |
| S 17 | 23 43 57 | 24° 6'27 | 11♒17 | 19°44 | 10°24 | 2°43 | 10°18 | 7°22 | 14°51 | 18°37 | 13°23 | 18°48 | 19°47 | 10°55 | 16° 7 | S 17 |
| M18 | 23 47 54 | 25° 5'09 | 25°50 | 20°21 | 11°20 | 3°24 | 10°14 | 7°25 | 14°48 | 18°36 | 13°24 | 18°45 | 19°44 | 11° 1 | 16° 5 | M18 |
| T 19 | 23 51 50 | 26° 3'53 | 10♓45 | 20°54 | 12°16 | 4° 5 | 10°11 | 7°29 | 14°46 | 18°35 | 13°24 | 18°42 | 19°41 | 11° 8 | 16° 2 | T 19 |
| W20 | 23 55 47 | 27° 2'38 | 25°53 | 21°21 | 13°12 | 4°46 | 10° 7 | 7°32 | 14°44 | 18°34 | 13°25 | 18°40 | 19°38 | 11°15 | 15°59 | W20 |
| T 21 | 23 59 43 | 28° 1'26 | 11♈ 5 | 21°44 | 14° 6 | 5°27 | 10° 2 | 7°35 | 14°41 | 18°33 | 13°26 | 18°39 | 19°34 | 11°21 | 15°57 | T 21 |
| F 22 | 0 3 40 | 29° 0'16 | 26°11 | 22° 1 | 15° 1 | 6° 8 | 9°58 | 7°38 | 14°39 | 18°31 | 13°26 | 18°D39 | 19°31 | 11°28 | 15°54 | F 22 |
| S 23 | 0 7 36 | 29°59'08 | 11♉ 4 | 22°12 | 15°55 | 6°49 | 9°54 | 7°41 | 14°37 | 18°30 | 13°27 | 18°39 | 19°28 | 11°35 | 15°51 | S 23 |
| S 24 | 0 11 33 | 0♎58'02 | 25°36 | 22°R17 | 16°48 | 7°30 | 9°49 | 7°44 | 14°34 | 18°29 | 13°27 | 18°41 | 19°25 | 11°41 | 15°49 | S 24 |
| M25 | 0 15 29 | 1°56'59 | 9♊45 | 22°15 | 17°40 | 8°12 | 9°44 | 7°47 | 14°32 | 18°28 | 13°28 | 18°42 | 19°22 | 11°48 | 15°46 | M25 |
| T 26 | 0 19 26 | 2°55'58 | 23°28 | 22° 6 | 18°32 | 8°53 | 9°39 | 7°50 | 14°30 | 18°27 | 13°28 | 18°43 | 19°18 | 11°54 | 15°43 | T 26 |
| W27 | 0 23 23 | 3°54'59 | 6♋48 | 21°50 | 19°24 | 9°35 | 9°34 | 7°52 | 14°27 | 18°26 | 13°29 | 18°R43 | 19°15 | 12° 1 | 15°40 | W27 |
| T 28 | 0 27 19 | 4°54'03 | 19°45 | 21°26 | 20°14 | 10°16 | 9°29 | 7°55 | 14°25 | 18°25 | 13°29 | 18°42 | 19°12 | 12° 8 | 15°38 | T 28 |
| F 29 | 0 31 16 | 5°53'09 | 2♌24 | 20°54 | 21° 4 | 10°58 | 9°23 | 7°57 | 14°23 | 18°24 | 13°29 | 18°41 | 19° 9 | 12°14 | 15°35 | F 29 |
| S 30 | 0 35 12 | 6♎52'17 | 14♌47 | 20♎14 | 21♏54 | 11♏39 | 9♉17 | 8♋ 0 | 14♈20 | 18♒23 | 13♋30 | 18♎40 | 19♎ 6 | 12♎21 | 15♈32 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8n23 | 16n28 | 5s 9 | 2s22 | 1s10 | 11s14 | 1s52 | 8s37 | 0s 2 | 13n48 | 1s22 | 22n30 | 0s50 | 5n26 | 0s41 | 15s30 | 0s22 | 21n38 | 1s12 | 7s36 | 8s 4 | 4s34 | 8n 0 | 1n32 |
| S 2 | 8 1 | 14 9 | 4 58 | 3 1 | 1 19 | 11 42 | 1 58 | 8 53 | 0 3 | 13 48 | 1 22 | 22 30 | 0 50 | 5 25 | 0 41 | 15 31 | 0 22 | 21 38 | 1 12 | 7 34 | 8 3 | 4 36 | 7 59 | 1 32 |
| S 3 | 7 39 | 11 13 | 4 33 | 3 39 | 1 28 | 12 10 | 2 3 | 9 8 | 0 4 | 13 47 | 1 22 | 22 30 | 0 50 | 5 25 | 0 41 | 15 31 | 0 22 | 21 38 | 1 12 | 7 31 | 8 2 | 4 38 | 7 58 | 1 32 |
| M 4 | 7 17 | 7 51 | 3 55 | 4 16 | 1 36 | 12 38 | 2 9 | 9 23 | 0 5 | 13 47 | 1 22 | 22 29 | 0 50 | 5 24 | 0 41 | 15 31 | 0 22 | 21 38 | 1 12 | 7 29 | 8 1 | 4 40 | 7 58 | 1 32 |
| T 5 | 6 55 | 4 12 | 3 8 | 4 53 | 1 45 | 13 5 | 2 14 | 9 39 | 0 5 | 13 46 | 1 23 | 22 29 | 0 50 | 5 23 | 0 41 | 15 32 | 0 22 | 21 38 | 1 12 | 7 26 | 7 59 | 4 42 | 7 57 | 1 32 |
| W 6 | 6 33 | 0 25 | 2 12 | 5 29 | 1 53 | 13 32 | 2 20 | 9 54 | 0 6 | 13 46 | 1 23 | 22 29 | 0 50 | 5 22 | 0 41 | 15 32 | 0 22 | 21 38 | 1 12 | 7 25 | 7 58 | 4 43 | 7 56 | 1 32 |
| T 7 | 6 10 | 3s22 | 1 11 | 6 3 | 2 2 | 13 59 | 2 25 | 10 9 | 0 7 | 13 45 | 1 23 | 22 29 | 0 50 | 5 21 | 0 41 | 15 33 | 0 22 | 21 38 | 1 12 | 7 24 | 7 57 | 4 45 | 7 55 | 1 31 |
| F 8 | 5 48 | 6 59 | 0 7 | 6 37 | 2 10 | 14 25 | 2 31 | 10 25 | 0 7 | 13 44 | 1 23 | 22 29 | 0 50 | 5 21 | 0 41 | 15 33 | 0 22 | 21 38 | 1 12 | 7 23 | 7 56 | 4 47 | 7 54 | 1 31 |
| S 9 | 5 25 | 10 20 | 0n57 | 7 10 | 2 18 | 14 51 | 2 37 | 10 40 | 0 8 | 13 44 | 1 23 | 22 28 | 0 50 | 5 20 | 0 41 | 15 34 | 0 22 | 21 37 | 1 12 | 7 23 | 7 55 | 4 49 | 7 53 | 1 31 |
| S 10 | 5 2 | 13 17 | 1 59 | 7 42 | 2 27 | 15 17 | 2 42 | 10 55 | 0 9 | 13 43 | 1 23 | 22 28 | 0 50 | 5 19 | 0 41 | 15 34 | 0 22 | 21 37 | 1 12 | 7 24 | 7 53 | 4 51 | 7 52 | 1 31 |
| M11 | 4 39 | 15 42 | 2 57 | 8 13 | 2 35 | 15 43 | 2 48 | 11 10 | 0 9 | 13 42 | 1 24 | 22 28 | 0 50 | 5 18 | 0 41 | 15 35 | 0 22 | 21 37 | 1 12 | 7 25 | 7 52 | 4 53 | 7 51 | 1 31 |
| T 12 | 4 16 | 17 28 | 3 48 | 8 42 | 2 42 | 16 8 | 2 53 | 11 25 | 0 10 | 13 41 | 1 24 | 22 28 | 0 50 | 5 17 | 0 41 | 15 35 | 0 22 | 21 37 | 1 12 | 7 25 | 7 51 | 4 54 | 7 50 | 1 31 |
| W13 | 3 53 | 18 26 | 4 29 | 9 10 | 2 50 | 16 33 | 2 59 | 11 40 | 0 11 | 13 40 | 1 24 | 22 27 | 0 50 | 5 17 | 0 41 | 15 36 | 0 22 | 21 37 | 1 12 | 7 26 | 7 50 | 4 56 | 7 49 | 1 31 |
| T 14 | 3 30 | 18 30 | 4 58 | 9 36 | 2 57 | 16 57 | 3 5 | 11 55 | 0 11 | 13 39 | 1 24 | 22 27 | 0 50 | 5 16 | 0 41 | 15 36 | 0 22 | 21 37 | 1 12 | 7 25 | 7 49 | 4 58 | 7 48 | 1 31 |
| F 15 | 3 7 | 17 36 | 5 13 | 10 1 | 3 4 | 17 22 | 3 10 | 12 9 | 0 12 | 13 38 | 1 24 | 22 27 | 0 50 | 5 15 | 0 41 | 15 36 | 0 22 | 21 37 | 1 12 | 7 25 | 7 47 | 5 0 | 7 47 | 1 31 |
| S 16 | 2 44 | 15 40 | 5 12 | 10 25 | 3 10 | 17 45 | 3 16 | 12 24 | 0 13 | 13 37 | 1 24 | 22 27 | 0 50 | 5 14 | 0 41 | 15 37 | 0 22 | 21 37 | 1 11 | 7 24 | 7 46 | 5 2 | 7 46 | 1 31 |
| S 17 | 2 21 | 12 45 | 4 51 | 10 46 | 3 17 | 18 9 | 3 21 | 12 39 | 0 14 | 13 36 | 1 25 | 22 27 | 0 50 | 5 13 | 0 41 | 15 37 | 0 22 | 21 37 | 1 11 | 7 23 | 7 45 | 5 3 | 7 45 | 1 31 |
| M18 | 1 57 | 8 59 | 4 12 | 11 5 | 3 22 | 18 32 | 3 27 | 12 53 | 0 14 | 13 34 | 1 25 | 22 26 | 0 50 | 5 12 | 0 41 | 15 38 | 0 22 | 21 37 | 1 11 | 7 21 | 7 44 | 5 5 | 7 44 | 1 31 |
| T 19 | 1 34 | 4 33 | 3 14 | 11 22 | 3 28 | 18 55 | 3 32 | 13 8 | 0 15 | 13 33 | 1 25 | 22 26 | 0 50 | 5 11 | 0 41 | 15 38 | 0 22 | 21 37 | 1 11 | 7 20 | 7 43 | 5 7 | 7 43 | 1 31 |
| W20 | 1 11 | 0n14 | 2 3 | 11 37 | 3 32 | 19 17 | 3 38 | 13 22 | 0 16 | 13 32 | 1 25 | 22 26 | 0 50 | 5 11 | 0 41 | 15 38 | 0 22 | 21 37 | 1 11 | 7 19 | 7 41 | 5 9 | 7 42 | 1 31 |
| T 21 | 0 47 | 5 2 | 0 42 | 11 49 | 3 36 | 19 39 | 3 43 | 13 37 | 0 16 | 13 30 | 1 25 | 22 26 | 0 50 | 5 10 | 0 41 | 15 39 | 0 22 | 21 37 | 1 11 | 7 19 | 7 40 | 5 11 | 7 41 | 1 31 |
| F 22 | 0 24 | 9 29 | 0s42 | 11 59 | 3 39 | 20 0 | 3 49 | 13 51 | 0 17 | 13 29 | 1 25 | 22 26 | 0 50 | 5 9 | 0 41 | 15 39 | 0 22 | 21 37 | 1 11 | 7 19 | 7 39 | 5 12 | 7 40 | 1 31 |
| S 23 | 0 0 | 13 15 | 2 1 | 12 5 | 3 42 | 20 22 | 3 54 | 14 5 | 0 17 | 13 27 | 1 26 | 22 26 | 0 50 | 5 8 | 0 41 | 15 39 | 0 22 | 21 37 | 1 11 | 7 19 | 7 38 | 5 14 | 7 39 | 1 31 |
| S 24 | 0s23 | 16 6 | 3 11 | 12 8 | 3 43 | 20 42 | 3 59 | 14 19 | 0 18 | 13 26 | 1 26 | 22 25 | 0 50 | 5 7 | 0 41 | 15 40 | 0 22 | 21 37 | 1 11 | 7 20 | 7 37 | 5 16 | 7 38 | 1 31 |
| M25 | 0 47 | 17 53 | 4 7 | 12 7 | 3 43 | 21 2 | 4 5 | 14 33 | 0 19 | 13 24 | 1 26 | 22 25 | 0 50 | 5 6 | 0 41 | 15 40 | 0 22 | 21 37 | 1 11 | 7 20 | 7 35 | 5 18 | 7 36 | 1 31 |
| T 26 | 1 10 | 18 33 | 4 47 | 12 3 | 3 42 | 21 22 | 4 10 | 14 47 | 0 19 | 13 22 | 1 26 | 22 25 | 0 50 | 5 5 | 0 41 | 15 40 | 0 22 | 21 37 | 1 11 | 7 21 | 7 34 | 5 20 | 7 35 | 1 31 |
| W27 | 1 34 | 18 8 | 5 10 | 11 55 | 3 40 | 21 42 | 4 15 | 15 1 | 0 20 | 13 20 | 1 26 | 22 25 | 0 50 | 5 4 | 0 41 | 15 41 | 0 22 | 21 37 | 1 11 | 7 21 | 7 33 | 5 21 | 7 34 | 1 31 |
| T 28 | 1 57 | 16 48 | 5 17 | 11 42 | 3 36 | 22 0 | 4 20 | 15 15 | 0 21 | 13 19 | 1 26 | 22 25 | 0 50 | 5 3 | 0 41 | 15 41 | 0 22 | 21 37 | 1 11 | 7 20 | 7 32 | 5 23 | 7 33 | 1 30 |
| F 29 | 2 20 | 14 39 | 5 8 | 11 25 | 3 30 | 22 19 | 4 25 | 15 29 | 0 21 | 13 17 | 1 26 | 22 25 | 0 50 | 5 2 | 0 41 | 15 41 | 0 22 | 21 37 | 1 11 | 7 20 | 7 31 | 5 25 | 7 32 | 1 30 |
| S 30 | 2s44 | 11n53 | 4s45 | 11s 3 | 3s23 | 22s37 | 4s30 | 15s42 | 0s22 | 13n15 | 1s26 | 22n25 | 0s50 | 5n 1 | 0s41 | 15s42 | 0s22 | 21n37 | 1s11 | 7s19 | 7s29 | 5s27 | 7n31 | 1n30 |

Julian Day Number = 2334545.5, Delta T = 23.85 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'08, Lahiri = 19°23'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## OCTOBER 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 39 9 | 7♎51'28 | 26♌57 | 19°R27 | 22♏42 | 12♏21 | 9°R12 | 8♋ 2 | 14°R18 | 18°R22 | 13♋30 | 18°R38 | 19♎ 3 | 12♎28 | 15°R29 | S 1 |
| M 2 | 0 43 5 | 8°50'41 | 8♍58 | 18♎33 | 23°30 | 13° 3 | 9♉ 6 | 8° 4 | 14♈15 | 18♒21 | 13°30 | 18♎37 | 18°59 | 12°34 | 15♈26 | M 2 |
| T 3 | 0 47 2 | 9°49'55 | 20°52 | 17°33 | 24°17 | 13°45 | 9° 0 | 8° 6 | 14°13 | 18°20 | 13°31 | 18°35 | 18°56 | 12°41 | 15°24 | T 3 |
| W 4 | 0 50 58 | 10°49'12 | 2♎41 | 16°27 | 25° 3 | 14°27 | 8°53 | 8° 8 | 14°11 | 18°19 | 13°31 | 18°35 | 18°53 | 12°48 | 15°21 | W 4 |
| T 5 | 0 54 55 | 11°48'31 | 14°28 | 15°18 | 25°48 | 15° 9 | 8°47 | 8°10 | 14° 8 | 18°19 | 13°31 | 18°D34 | 18°50 | 12°54 | 15°18 | T 5 |
| F 6 | 0 58 51 | 12°47'53 | 26°15 | 14° 7 | 26°33 | 15°51 | 8°40 | 8°11 | 14° 6 | 18°18 | 13°31 | 18°34 | 18°47 | 13° 1 | 15°15 | F 6 |
| S 7 | 1 2 48 | 13°47'16 | 8♏ 5 | 12°55 | 27°16 | 16°33 | 8°34 | 8°13 | 14° 3 | 18°17 | 13°32 | 18°35 | 18°43 | 13° 8 | 15°12 | S 7 |
| S 8 | 1 6 45 | 14°46'41 | 19°59 | 11°45 | 27°58 | 17°16 | 8°27 | 8°14 | 14° 1 | 18°16 | 13°32 | 18°35 | 18°40 | 13°14 | 15° 9 | S 8 |
| M 9 | 1 10 41 | 15°46'08 | 2♐ 1 | 10°39 | 28°40 | 17°58 | 8°20 | 8°16 | 13°58 | 18°16 | 13°32 | 18°35 | 18°37 | 13°21 | 15° 7 | M 9 |
| T 10 | 1 14 38 | 16°45'37 | 14°14 | 9°39 | 29°20 | 18°40 | 8°13 | 8°17 | 13°56 | 18°15 | 13°32 | 18°36 | 18°34 | 13°27 | 15° 4 | T 10 |
| W11 | 1 18 34 | 17°45'08 | 26°40 | 8°47 | 29°59 | 19°23 | 8° 6 | 8°18 | 13°53 | 18°14 | 13°32 | 18°36 | 18°31 | 13°34 | 15° 1 | W11 |
| T 12 | 1 22 31 | 18°44'40 | 9♑24 | 8° 3 | 0♐37 | 20° 5 | 7°58 | 8°19 | 13°51 | 18°14 | 13°32 | 18°R36 | 18°28 | 13°41 | 14°58 | T 12 |
| F 13 | 1 26 27 | 19°44'15 | 22°30 | 7°29 | 1°14 | 20°48 | 7°51 | 8°20 | 13°49 | 18°13 | 13°32 | 18°D36 | 18°24 | 13°47 | 14°55 | F 13 |
| S 14 | 1 30 24 | 20°43'51 | 5♒59 | 7° 6 | 1°50 | 21°31 | 7°44 | 8°21 | 13°46 | 18°13 | 13°R32 | 18°36 | 18°21 | 13°54 | 14°52 | S 14 |
| S 15 | 1 34 20 | 21°43'29 | 19°54 | 6°54 | 2°24 | 22°13 | 7°36 | 8°22 | 13°44 | 18°12 | 13°32 | 18°36 | 18°18 | 14° 1 | 14°50 | S 15 |
| M16 | 1 38 17 | 22°43'08 | 4♓14 | 6°D53 | 2°57 | 22°56 | 7°29 | 8°22 | 13°41 | 18°12 | 13°32 | 18°36 | 18°15 | 14° 7 | 14°47 | M16 |
| T 17 | 1 42 14 | 23°42'49 | 18°57 | 7° 4 | 3°28 | 23°39 | 7°21 | 8°23 | 13°39 | 18°11 | 13°32 | 18°37 | 18°12 | 14°14 | 14°44 | T 17 |
| W18 | 1 46 10 | 24°42'32 | 3♈57 | 7°25 | 3°58 | 24°22 | 7°13 | 8°23 | 13°37 | 18°11 | 13°32 | 18°37 | 18° 9 | 14°21 | 14°41 | W18 |
| T 19 | 1 50 7 | 25°42'17 | 19° 8 | 7°56 | 4°27 | 25° 5 | 7° 5 | 8°23 | 13°34 | 18°10 | 13°32 | 18°R37 | 18° 5 | 14°27 | 14°38 | T 19 |
| F 20 | 1 54 3 | 26°42'04 | 4♉20 | 8°35 | 4°53 | 25°48 | 6°57 | 8°23 | 13°32 | 18°10 | 13°32 | 18°37 | 18° 2 | 14°34 | 14°36 | F 20 |
| S 21 | 1 58 0 | 27°41'53 | 19°23 | 9°24 | 5°19 | 26°31 | 6°49 | 8°R23 | 13°30 | 18°10 | 13°32 | 18°37 | 17°59 | 14°41 | 14°33 | S 21 |
| S 22 | 2 1 56 | 28°41'44 | 4♊ 8 | 10°19 | 5°42 | 27°14 | 6°41 | 8°23 | 13°27 | 18° 9 | 13°31 | 18°35 | 17°56 | 14°47 | 14°30 | S 22 |
| M23 | 2 5 53 | 29°41'37 | 18°30 | 11°22 | 6° 4 | 27°58 | 6°33 | 8°23 | 13°25 | 18° 9 | 13°31 | 18°34 | 17°53 | 14°54 | 14°27 | M23 |
| T 24 | 2 9 49 | 0♏41'32 | 2♋26 | 12°30 | 6°23 | 28°41 | 6°25 | 8°23 | 13°23 | 18° 9 | 13°31 | 18°33 | 17°49 | 15° 1 | 14°25 | T 24 |
| W25 | 2 13 46 | 1°41'30 | 15°53 | 13°43 | 6°41 | 29°24 | 6°17 | 8°22 | 13°20 | 18° 9 | 13°31 | 18°32 | 17°46 | 15° 7 | 14°22 | W25 |
| T 26 | 2 17 43 | 2°41'30 | 28°54 | 15° 0 | 6°57 | 0♐ 8 | 6° 9 | 8°22 | 13°18 | 18° 8 | 13°30 | 18°D31 | 17°43 | 15°14 | 14°19 | T 26 |
| F 27 | 2 21 39 | 3°41'32 | 11♌32 | 16°21 | 7°11 | 0°51 | 6° 1 | 8°21 | 13°16 | 18° 8 | 13°30 | 18°31 | 17°40 | 15°20 | 14°17 | F 27 |
| S 28 | 2 25 36 | 4°41'36 | 23°51 | 17°46 | 7°23 | 1°35 | 5°53 | 8°20 | 13°14 | 18° 8 | 13°30 | 18°32 | 17°37 | 15°27 | 14°14 | S 28 |
| S 29 | 2 29 32 | 5°41'42 | 5♍56 | 19°13 | 7°32 | 2°18 | 5°45 | 8°20 | 13°11 | 18° 8 | 13°29 | 18°33 | 17°34 | 15°34 | 14°11 | S 29 |
| M30 | 2 33 29 | 6°41'50 | 17°50 | 20°42 | 7°40 | 3° 2 | 5°37 | 8°19 | 13° 9 | 18°D 8 | 13°29 | 18°35 | 17°30 | 15°40 | 14° 9 | M30 |
| T 31 | 2 37 25 | 7♏42'00 | 29♍39 | 22♎13 | 7♐45 | 3♐46 | 5♉28 | 8♋17 | 13♈ 7 | 18♒ 8 | 13♋29 | 18♎37 | 17♎27 | 15♎47 | 14♈ 6 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s 7 | 8n39 | 4s 9 | 10s37 | 3s14 | 22s54 | 4s35 | 15s56 | 0s23 | 13n13 | 1s26 | 22n24 | 0s50 | 5n 1 | 0s41 | 15s42 | 0s22 | 21n37 | 1s11 | 7s19 | 7s28 | 5s29 | 7n30 | 1n30 |
| M 2 | 3 31 | 5 5 | 3 23 | 10 6 | 3 3 | 23 11 | 4 40 | 16 9 | 0 23 | 13 11 | 1 27 | 22 24 | 0 50 | 5 0 | 0 41 | 15 42 | 0 22 | 21 37 | 1 11 | 7 18 | 7 27 | 5 30 | 7 29 | 1 30 |
| T 3 | 3 54 | 1 22 | 2 28 | 9 31 | 2 50 | 23 28 | 4 44 | 16 22 | 0 24 | 13 9 | 1 27 | 22 24 | 0 50 | 4 59 | 0 41 | 15 42 | 0 22 | 21 37 | 1 11 | 7 18 | 7 26 | 5 32 | 7 27 | 1 30 |
| W 4 | 4 17 | 2s24 | 1 27 | 8 53 | 2 36 | 23 44 | 4 49 | 16 35 | 0 24 | 13 7 | 1 27 | 22 24 | 0 50 | 4 58 | 0 41 | 15 43 | 0 22 | 21 37 | 1 11 | 7 18 | 7 25 | 5 34 | 7 26 | 1 30 |
| T 5 | 4 41 | 6 4 | 0 23 | 8 11 | 2 19 | 23 59 | 4 53 | 16 48 | 0 25 | 13 5 | 1 27 | 22 24 | 0 50 | 4 57 | 0 41 | 15 43 | 0 22 | 21 37 | 1 11 | 7 17 | 7 23 | 5 36 | 7 25 | 1 30 |
| F 6 | 5 4 | 9 29 | 0n43 | 7 26 | 2 2 | 24 14 | 4 58 | 17 1 | 0 26 | 13 3 | 1 27 | 22 24 | 0 50 | 4 56 | 0 41 | 15 43 | 0 22 | 21 37 | 1 11 | 7 17 | 7 22 | 5 37 | 7 24 | 1 30 |
| S 7 | 5 27 | 12 33 | 1 46 | 6 41 | 1 42 | 24 28 | 5 2 | 17 14 | 0 26 | 13 0 | 1 27 | 22 24 | 0 50 | 4 55 | 0 41 | 15 43 | 0 22 | 21 37 | 1 11 | 7 18 | 7 21 | 5 39 | 7 23 | 1 30 |
| S 8 | 5 50 | 15 6 | 2 46 | 5 55 | 1 22 | 24 42 | 5 6 | 17 27 | 0 27 | 12 58 | 1 27 | 22 24 | 0 50 | 4 54 | 0 41 | 15 44 | 0 22 | 21 37 | 1 11 | 7 18 | 7 20 | 5 41 | 7 22 | 1 30 |
| M 9 | 6 13 | 17 1 | 3 39 | 5 10 | 1 2 | 24 56 | 5 10 | 17 39 | 0 27 | 12 56 | 1 27 | 22 24 | 0 50 | 4 53 | 0 41 | 15 44 | 0 22 | 21 37 | 1 11 | 7 18 | 7 18 | 5 43 | 7 20 | 1 30 |
| T 10 | 6 36 | 18 12 | 4 23 | 4 28 | 0 41 | 25 8 | 5 14 | 17 51 | 0 28 | 12 54 | 1 27 | 22 23 | 0 50 | 4 52 | 0 41 | 15 44 | 0 22 | 21 37 | 1 11 | 7 18 | 7 17 | 5 45 | 7 19 | 1 30 |
| W11 | 6 59 | 18 31 | 4 55 | 3 48 | 0 21 | 25 21 | 5 17 | 18 4 | 0 29 | 12 51 | 1 27 | 22 23 | 0 50 | 4 51 | 0 41 | 15 44 | 0 22 | 21 37 | 1 11 | 7 18 | 7 16 | 5 46 | 7 18 | 1 30 |
| T 12 | 7 21 | 17 55 | 5 14 | 3 13 | 0 1 | 25 32 | 5 21 | 18 16 | 0 29 | 12 49 | 1 27 | 22 23 | 0 50 | 4 50 | 0 41 | 15 44 | 0 22 | 21 37 | 1 11 | 7 18 | 7 15 | 5 48 | 7 17 | 1 29 |
| F 13 | 7 44 | 16 23 | 5 17 | 2 42 | 0n18 | 25 43 | 5 24 | 18 28 | 0 30 | 12 46 | 1 27 | 22 23 | 0 50 | 4 49 | 0 41 | 15 45 | 0 22 | 21 37 | 1 11 | 7 18 | 7 14 | 5 50 | 7 16 | 1 29 |
| S 14 | 8 6 | 13 54 | 5 4 | 2 17 | 0 35 | 25 54 | 5 27 | 18 40 | 0 30 | 12 44 | 1 27 | 22 23 | 0 50 | 4 48 | 0 41 | 15 45 | 0 22 | 21 37 | 1 11 | 7 18 | 7 12 | 5 52 | 7 14 | 1 29 |
| S 15 | 8 29 | 10 34 | 4 32 | 1 58 | 0 51 | 26 4 | 5 30 | 18 51 | 0 31 | 12 42 | 1 27 | 22 23 | 0 50 | 4 47 | 0 41 | 15 45 | 0 22 | 21 37 | 1 11 | 7 18 | 7 11 | 5 53 | 7 13 | 1 29 |
| M16 | 8 51 | 6 31 | 3 43 | 1 44 | 1 6 | 26 13 | 5 32 | 19 3 | 0 32 | 12 39 | 1 27 | 22 23 | 0 50 | 4 46 | 0 41 | 15 45 | 0 22 | 21 37 | 1 11 | 7 18 | 7 10 | 5 55 | 7 12 | 1 29 |
| T 17 | 9 13 | 1 58 | 2 38 | 1 36 | 1 19 | 26 21 | 5 35 | 19 14 | 0 32 | 12 37 | 1 27 | 22 23 | 0 50 | 4 46 | 0 41 | 15 45 | 0 22 | 21 37 | 1 10 | 7 18 | 7 9 | 5 57 | 7 11 | 1 29 |
| W18 | 9 35 | 2n49 | 1 21 | 1 34 | 1 30 | 26 30 | 5 37 | 19 25 | 0 33 | 12 34 | 1 27 | 22 23 | 0 50 | 4 45 | 0 41 | 15 45 | 0 22 | 21 37 | 1 10 | 7 19 | 7 8 | 5 59 | 7 10 | 1 29 |
| T 19 | 9 57 | 7 28 | 0s 3 | 1 37 | 1 40 | 26 37 | 5 39 | 19 36 | 0 33 | 12 32 | 1 27 | 22 23 | 0 50 | 4 44 | 0 41 | 15 46 | 0 22 | 21 37 | 1 10 | 7 19 | 7 6 | 6 1 | 7 9 | 1 29 |
| F 20 | 10 19 | 11 38 | 1 26 | 1 45 | 1 48 | 26 44 | 5 41 | 19 47 | 0 34 | 12 29 | 1 27 | 22 23 | 0 50 | 4 43 | 0 41 | 15 46 | 0 22 | 21 37 | 1 10 | 7 19 | 7 5 | 6 2 | 7 7 | 1 29 |
| S 21 | 10 40 | 14 59 | 2 43 | 1 58 | 1 55 | 26 50 | 5 42 | 19 58 | 0 34 | 12 26 | 1 27 | 22 23 | 0 50 | 4 42 | 0 41 | 15 46 | 0 22 | 21 37 | 1 10 | 7 18 | 7 4 | 6 4 | 7 6 | 1 29 |
| S 22 | 11 2 | 17 17 | 3 47 | 2 15 | 2 0 | 26 55 | 5 43 | 20 8 | 0 35 | 12 24 | 1 27 | 22 23 | 0 50 | 4 41 | 0 41 | 15 46 | 0 22 | 21 37 | 1 10 | 7 18 | 7 3 | 6 6 | 7 5 | 1 29 |
| M23 | 11 23 | 18 25 | 4 35 | 2 36 | 2 4 | 27 0 | 5 44 | 20 19 | 0 36 | 12 21 | 1 27 | 22 23 | 0 50 | 4 40 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 17 | 7 2 | 6 8 | 7 4 | 1 28 |
| T 24 | 11 44 | 18 22 | 5 5 | 3 0 | 2 6 | 27 4 | 5 44 | 20 29 | 0 36 | 12 19 | 1 27 | 22 23 | 0 50 | 4 39 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 17 | 7 0 | 6 9 | 7 3 | 1 28 |
| W25 | 12 5 | 17 17 | 5 17 | 3 27 | 2 8 | 27 7 | 5 44 | 20 39 | 0 37 | 12 16 | 1 27 | 22 23 | 0 50 | 4 38 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 16 | 6 59 | 6 11 | 7 2 | 1 28 |
| T 26 | 12 26 | 15 19 | 5 12 | 3 57 | 2 8 | 27 9 | 5 44 | 20 49 | 0 37 | 12 13 | 1 27 | 22 23 | 0 50 | 4 38 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 16 | 6 58 | 6 13 | 7 1 | 1 28 |
| F 27 | 12 46 | 12 40 | 4 52 | 4 28 | 2 8 | 27 11 | 5 44 | 20 59 | 0 38 | 12 11 | 1 27 | 22 23 | 0 50 | 4 37 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 16 | 6 57 | 6 15 | 6 59 | 1 28 |
| S 28 | 13 6 | 9 31 | 4 19 | 5 2 | 2 7 | 27 12 | 5 42 | 21 8 | 0 38 | 12 8 | 1 27 | 22 23 | 0 50 | 4 36 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 17 | 6 55 | 6 16 | 6 58 | 1 28 |
| S 29 | 13 27 | 6 1 | 3 35 | 5 37 | 2 5 | 27 12 | 5 41 | 21 17 | 0 39 | 12 6 | 1 27 | 22 23 | 0 50 | 4 35 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 17 | 6 54 | 6 18 | 6 57 | 1 28 |
| M30 | 13 46 | 2 19 | 2 42 | 6 13 | 2 2 | 27 12 | 5 39 | 21 26 | 0 39 | 12 3 | 1 27 | 22 24 | 0 50 | 4 34 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 18 | 6 53 | 6 20 | 6 56 | 1 28 |
| T 31 | 14s 6 | 1s26 | 1s43 | 6s50 | 1n59 | 27s10 | 5s36 | 21s35 | 0s40 | 12n 0 | 1s27 | 22n24 | 0s50 | 4n33 | 0s41 | 15s46 | 0s22 | 21n38 | 1s10 | 7s18 | 6s52 | 6s22 | 6n55 | 1n28 |

Julian Day Number = 2334575.5, Delta T = 23.80 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'12, Lahiri = 19°23'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## NOVEMBER 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 41 22 | 8♏42'12 | 11♎26 | 23♎45 | 7♐48 | 4♐30 | 5°R20 | 8°R16 | 13°R 5 | 18♒ 8 | 13°R28 | 18♎37 | 17♎24 | 15♎54 | 14°R 4 | W 1 |
| T 2 | 2 45 18 | 9°42'26 | 23°13 | 25°18 | 7°R49 | 5°14 | 5♉12 | 8♋15 | 13♈ 3 | 18° 8 | 13♋28 | 18°R38 | 17°21 | 16° 0 | 14♈ 1 | T 2 |
| F 3 | 2 49 15 | 10°42'42 | 5♏ 4 | 26°53 | 7°47 | 5°58 | 5° 4 | 8°13 | 13° 1 | 18° 8 | 13°27 | 18°37 | 17°18 | 16° 7 | 13°59 | F 3 |
| S 4 | 2 53 12 | 11°43'00 | 17° 1 | 28°28 | 7°42 | 6°42 | 4°56 | 8°12 | 12°59 | 18° 9 | 13°27 | 18°34 | 17°15 | 16°14 | 13°56 | S 4 |
| S 5 | 2 57 8 | 12°43'20 | 29° 6 | 0♏ 3 | 7°36 | 7°26 | 4°48 | 8°10 | 12°57 | 18° 9 | 13°26 | 18°31 | 17°11 | 16°20 | 13°54 | S 5 |
| M 6 | 3 1 5 | 13°43'41 | 11♐19 | 1°39 | 7°27 | 8°10 | 4°40 | 8° 9 | 12°55 | 18° 9 | 13°26 | 18°27 | 17° 8 | 16°27 | 13°51 | M 6 |
| T 7 | 3 5 1 | 14°44'04 | 23°44 | 3°15 | 7°15 | 8°54 | 4°32 | 8° 7 | 12°53 | 18° 9 | 13°25 | 18°22 | 17° 5 | 16°34 | 13°49 | T 7 |
| W 8 | 3 8 58 | 15°44'28 | 6♑20 | 4°52 | 7° 1 | 9°39 | 4°24 | 8° 5 | 12°51 | 18° 9 | 13°25 | 18°18 | 17° 2 | 16°40 | 13°47 | W 8 |
| T 9 | 3 12 54 | 16°44'54 | 19°11 | 6°28 | 6°45 | 10°23 | 4°16 | 8° 3 | 12°49 | 18°10 | 13°24 | 18°14 | 16°59 | 16°47 | 13°45 | T 9 |
| F 10 | 3 16 51 | 17°45'21 | 2♒17 | 8° 5 | 6°26 | 11° 7 | 4° 9 | 8° 0 | 12°47 | 18°10 | 13°24 | 18°12 | 16°55 | 16°53 | 13°42 | F 10 |
| S 11 | 3 20 47 | 18°45'50 | 15°41 | 9°41 | 6° 5 | 11°52 | 4° 1 | 7°58 | 12°45 | 18°11 | 13°23 | 18°D11 | 16°52 | 17° 0 | 13°40 | S 11 |
| S 12 | 3 24 44 | 19°46'19 | 29°25 | 11°17 | 5°42 | 12°36 | 3°53 | 7°56 | 12°43 | 18°11 | 13°22 | 18°11 | 16°49 | 17° 7 | 13°38 | S 12 |
| M13 | 3 28 41 | 20°46'50 | 13♓28 | 12°54 | 5°16 | 13°21 | 3°46 | 7°53 | 12°41 | 18°11 | 13°22 | 18°12 | 16°46 | 17°13 | 13°36 | M13 |
| T 14 | 3 32 37 | 21°47'23 | 27°51 | 14°30 | 4°49 | 14° 6 | 3°39 | 7°51 | 12°40 | 18°12 | 13°21 | 18°14 | 16°43 | 17°20 | 13°34 | T 14 |
| W15 | 3 36 34 | 22°47'56 | 12♈31 | 16° 6 | 4°20 | 14°50 | 3°31 | 7°48 | 12°38 | 18°12 | 13°20 | 18°R15 | 16°40 | 17°27 | 13°32 | W15 |
| T 16 | 3 40 30 | 23°48'31 | 27°24 | 17°41 | 3°49 | 15°35 | 3°24 | 7°45 | 12°36 | 18°13 | 13°19 | 18°15 | 16°36 | 17°33 | 13°30 | T 16 |
| F 17 | 3 44 27 | 24°49'07 | 12♉23 | 19°17 | 3°17 | 16°20 | 3°17 | 7°42 | 12°35 | 18°14 | 13°19 | 18°13 | 16°33 | 17°40 | 13°28 | F 17 |
| S 18 | 3 48 23 | 25°49'44 | 27°19 | 20°53 | 2°43 | 17° 5 | 3°10 | 7°39 | 12°33 | 18°14 | 13°18 | 18° 9 | 16°30 | 17°47 | 13°26 | S 18 |
| S 19 | 3 52 20 | 26°50'23 | 12♊ 4 | 22°28 | 2° 8 | 17°50 | 3° 3 | 7°36 | 12°32 | 18°15 | 13°17 | 18° 4 | 16°27 | 17°53 | 13°24 | S 19 |
| M20 | 3 56 16 | 27°51'04 | 26°31 | 24° 3 | 1°33 | 18°35 | 2°56 | 7°33 | 12°30 | 18°15 | 13°16 | 17°57 | 16°24 | 18° 0 | 13°22 | M20 |
| T 21 | 4 0 13 | 28°51'46 | 10♋33 | 25°38 | 0°57 | 19°20 | 2°50 | 7°30 | 12°29 | 18°16 | 13°15 | 17°51 | 16°21 | 18° 7 | 13°20 | T 21 |
| W22 | 4 4 10 | 29°52'30 | 24° 8 | 27°13 | 0°20 | 20° 5 | 2°43 | 7°27 | 12°27 | 18°17 | 13°15 | 17°45 | 16°17 | 18°13 | 13°18 | W22 |
| T 23 | 4 8 6 | 0♐53'15 | 7♌16 | 28°47 | 29♏44 | 20°50 | 2°37 | 7°23 | 12°26 | 18°18 | 13°14 | 17°40 | 16°14 | 18°20 | 13°17 | T 23 |
| F 24 | 4 12 3 | 1°54'01 | 19°58 | 0♐22 | 29° 8 | 21°35 | 2°31 | 7°20 | 12°24 | 18°19 | 13°13 | 17°38 | 16°11 | 18°26 | 13°15 | F 24 |
| S 25 | 4 15 59 | 2°54'49 | 2♍19 | 1°56 | 28°32 | 22°20 | 2°25 | 7°16 | 12°23 | 18°19 | 13°12 | 17°D37 | 16° 8 | 18°33 | 13°13 | S 25 |
| S 26 | 4 19 56 | 3°55'39 | 14°24 | 3°31 | 27°56 | 23° 5 | 2°19 | 7°13 | 12°22 | 18°20 | 13°11 | 17°37 | 16° 5 | 18°40 | 13°12 | S 26 |
| M27 | 4 23 52 | 4°56'30 | 26°17 | 5° 5 | 27°22 | 23°51 | 2°13 | 7° 9 | 12°21 | 18°21 | 13°10 | 17°39 | 16° 1 | 18°46 | 13°10 | M27 |
| T 28 | 4 27 49 | 5°57'22 | 8♎ 5 | 6°39 | 26°49 | 24°36 | 2° 8 | 7° 5 | 12°20 | 18°22 | 13° 9 | 17°40 | 15°58 | 18°53 | 13° 9 | T 28 |
| W29 | 4 31 45 | 6°58'16 | 19°51 | 8°14 | 26°17 | 25°22 | 2° 2 | 7° 1 | 12°18 | 18°23 | 13° 8 | 17°R40 | 15°55 | 19° 0 | 13° 8 | W29 |
| T 30 | 4 35 42 | 7♐59'11 | 1♏41 | 9♐48 | 25♏47 | 26♐ 7 | 1♉57 | 6♋57 | 12♈17 | 18♒24 | 13♋ 7 | 17♎39 | 15♎52 | 19♎ 6 | 13♈ 6 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14s26 | 5s 8 | 0s40 | 7s27 | 1n55 | 27s 8 | 5s33 | 21s44 | 0s40 | 11n58 | 1s27 | 22n24 | 0s50 | 4n33 | 0s41 | 15s46 | 0s22 | 21n38 | 1s10 | 7s19 | 6s51 | 6s23 | 6n54 | 1n27 |
| T 2 | 14 45 | 8 39 | 0n25 | 8 5 | 1 50 | 27 4 | 5 30 | 21 53 | 0 41 | 11 55 | 1 26 | 22 24 | 0 50 | 4 32 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 19 | 6 49 | 6 25 | 6 53 | 1 27 |
| F 3 | 15 4 | 11 50 | 1 30 | 8 44 | 1 46 | 27 0 | 5 26 | 22 1 | 0 41 | 11 52 | 1 26 | 22 24 | 0 50 | 4 31 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 18 | 6 48 | 6 27 | 6 52 | 1 27 |
| S 4 | 15 22 | 14 33 | 2 30 | 9 23 | 1 41 | 26 55 | 5 21 | 22 9 | 0 42 | 11 50 | 1 26 | 22 24 | 0 50 | 4 30 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 17 | 6 47 | 6 29 | 6 51 | 1 27 |
| S 5 | 15 41 | 16 39 | 3 25 | 10 1 | 1 35 | 26 48 | 5 16 | 22 17 | 0 42 | 11 47 | 1 26 | 22 24 | 0 50 | 4 29 | 0 41 | 15 46 | 0 22 | 21 38 | 1 10 | 7 16 | 6 46 | 6 30 | 6 50 | 1 27 |
| M 6 | 15 59 | 18 2 | 4 11 | 10 40 | 1 30 | 26 41 | 5 10 | 22 25 | 0 43 | 11 45 | 1 26 | 22 24 | 0 50 | 4 29 | 0 41 | 15 46 | 0 22 | 21 39 | 1 10 | 7 15 | 6 44 | 6 32 | 6 49 | 1 27 |
| T 7 | 16 17 | 18 35 | 4 45 | 11 19 | 1 24 | 26 33 | 5 4 | 22 32 | 0 43 | 11 42 | 1 26 | 22 24 | 0 49 | 4 28 | 0 41 | 15 46 | 0 22 | 21 39 | 1 10 | 7 13 | 6 43 | 6 34 | 6 47 | 1 27 |
| W 8 | 16 35 | 18 13 | 5 7 | 11 57 | 1 18 | 26 24 | 4 57 | 22 39 | 0 44 | 11 40 | 1 26 | 22 25 | 0 49 | 4 27 | 0 41 | 15 46 | 0 22 | 21 39 | 1 10 | 7 11 | 6 42 | 6 36 | 6 46 | 1 27 |
| T 9 | 16 52 | 16 56 | 5 14 | 12 35 | 1 11 | 26 13 | 4 49 | 22 46 | 0 44 | 11 37 | 1 26 | 22 25 | 0 49 | 4 26 | 0 41 | 15 46 | 0 22 | 21 39 | 1 10 | 7 10 | 6 41 | 6 37 | 6 45 | 1 26 |
| F 10 | 17 9 | 14 44 | 5 4 | 13 12 | 1 5 | 26 2 | 4 41 | 22 53 | 0 45 | 11 35 | 1 25 | 22 25 | 0 49 | 4 26 | 0 41 | 15 46 | 0 22 | 21 39 | 1 10 | 7 9 | 6 40 | 6 39 | 6 44 | 1 26 |
| S 11 | 17 26 | 11 43 | 4 38 | 13 49 | 0 58 | 25 49 | 4 32 | 23 0 | 0 45 | 11 32 | 1 25 | 22 25 | 0 49 | 4 25 | 0 41 | 15 45 | 0 22 | 21 39 | 1 10 | 7 8 | 6 38 | 6 41 | 6 43 | 1 26 |
| S 12 | 17 42 | 8 0 | 3 56 | 14 26 | 0 52 | 25 36 | 4 23 | 23 6 | 0 46 | 11 30 | 1 25 | 22 25 | 0 49 | 4 24 | 0 41 | 15 45 | 0 22 | 21 39 | 1 10 | 7 9 | 6 37 | 6 42 | 6 43 | 1 26 |
| M13 | 17 59 | 3 45 | 2 59 | 15 1 | 0 45 | 25 21 | 4 12 | 23 12 | 0 46 | 11 28 | 1 25 | 22 25 | 0 49 | 4 24 | 0 41 | 15 45 | 0 22 | 21 39 | 1 10 | 7 9 | 6 36 | 6 44 | 6 42 | 1 26 |
| T 14 | 18 15 | 0n49 | 1 49 | 15 37 | 0 38 | 25 5 | 4 1 | 23 18 | 0 47 | 11 25 | 1 25 | 22 26 | 0 49 | 4 23 | 0 41 | 15 45 | 0 22 | 21 39 | 1 10 | 7 10 | 6 35 | 6 46 | 6 41 | 1 26 |
| W15 | 18 30 | 5 26 | 0 31 | 16 11 | 0 31 | 24 48 | 3 50 | 23 24 | 0 47 | 11 23 | 1 25 | 22 26 | 0 49 | 4 22 | 0 41 | 15 45 | 0 22 | 21 39 | 1 9 | 7 10 | 6 33 | 6 48 | 6 40 | 1 26 |
| T 16 | 18 45 | 9 47 | 0s50 | 16 45 | 0 24 | 24 31 | 3 38 | 23 29 | 0 47 | 11 21 | 1 24 | 22 26 | 0 49 | 4 22 | 0 41 | 15 45 | 0 22 | 21 40 | 1 9 | 7 10 | 6 32 | 6 49 | 6 39 | 1 26 |
| F 17 | 19 0 | 13 33 | 2 8 | 17 18 | 0 18 | 24 12 | 3 25 | 23 34 | 0 48 | 11 19 | 1 24 | 22 26 | 0 49 | 4 21 | 0 41 | 15 45 | 0 22 | 21 40 | 1 9 | 7 9 | 6 31 | 6 51 | 6 38 | 1 25 |
| S 18 | 19 15 | 16 24 | 3 17 | 17 50 | 0 11 | 23 52 | 3 12 | 23 39 | 0 48 | 11 16 | 1 24 | 22 26 | 0 49 | 4 21 | 0 41 | 15 44 | 0 22 | 21 40 | 1 9 | 7 8 | 6 30 | 6 53 | 6 37 | 1 25 |
| S 19 | 19 29 | 18 7 | 4 12 | 18 21 | 0 4 | 23 32 | 2 58 | 23 44 | 0 49 | 11 14 | 1 24 | 22 27 | 0 49 | 4 20 | 0 41 | 15 44 | 0 22 | 21 40 | 1 9 | 7 6 | 6 29 | 6 55 | 6 36 | 1 25 |
| M20 | 19 43 | 18 37 | 4 49 | 18 52 | 0s 3 | 23 11 | 2 44 | 23 48 | 0 49 | 11 12 | 1 24 | 22 27 | 0 49 | 4 19 | 0 41 | 15 44 | 0 22 | 21 40 | 1 9 | 7 3 | 6 27 | 6 56 | 6 35 | 1 25 |
| T 21 | 19 56 | 17 57 | 5 8 | 19 21 | 0 10 | 22 49 | 2 30 | 23 52 | 0 50 | 11 10 | 1 23 | 22 27 | 0 49 | 4 19 | 0 41 | 15 44 | 0 22 | 21 40 | 1 9 | 7 1 | 6 26 | 6 58 | 6 35 | 1 25 |
| W22 | 20 9 | 16 15 | 5 8 | 19 50 | 0 16 | 22 27 | 2 15 | 23 56 | 0 50 | 11 8 | 1 23 | 22 27 | 0 49 | 4 18 | 0 41 | 15 43 | 0 22 | 21 40 | 1 9 | 6 58 | 6 25 | 7 0 | 6 34 | 1 25 |
| T 23 | 20 22 | 13 46 | 4 53 | 20 18 | 0 23 | 22 4 | 2 0 | 24 0 | 0 50 | 11 6 | 1 23 | 22 27 | 0 49 | 4 18 | 0 41 | 15 43 | 0 22 | 21 40 | 1 9 | 6 57 | 6 24 | 7 1 | 6 33 | 1 25 |
| F 24 | 20 35 | 10 41 | 4 23 | 20 44 | 0 29 | 21 42 | 1 44 | 24 3 | 0 51 | 11 4 | 1 23 | 22 28 | 0 49 | 4 17 | 0 41 | 15 43 | 0 22 | 21 40 | 1 9 | 6 56 | 6 23 | 7 3 | 6 32 | 1 24 |
| S 25 | 20 47 | 7 13 | 3 41 | 21 10 | 0 36 | 21 18 | 1 29 | 24 7 | 0 51 | 11 3 | 1 22 | 22 28 | 0 49 | 4 17 | 0 40 | 15 43 | 0 22 | 21 41 | 1 9 | 6 55 | 6 21 | 7 5 | 6 31 | 1 24 |
| S 26 | 20 58 | 3 32 | 2 50 | 21 35 | 0 42 | 20 55 | 1 13 | 24 9 | 0 52 | 11 1 | 1 22 | 22 28 | 0 49 | 4 16 | 0 40 | 15 42 | 0 22 | 21 41 | 1 9 | 6 56 | 6 20 | 7 7 | 6 31 | 1 24 |
| M27 | 21 9 | 0s15 | 1 53 | 21 58 | 0 48 | 20 32 | 0 58 | 24 12 | 0 52 | 10 59 | 1 22 | 22 28 | 0 49 | 4 16 | 0 40 | 15 42 | 0 22 | 21 41 | 1 9 | 6 56 | 6 19 | 7 8 | 6 30 | 1 24 |
| T 28 | 21 20 | 4 0 | 0 52 | 22 21 | 0 54 | 20 10 | 0 42 | 24 15 | 0 52 | 10 57 | 1 22 | 22 29 | 0 49 | 4 16 | 0 40 | 15 42 | 0 22 | 21 41 | 1 9 | 6 57 | 6 18 | 7 10 | 6 29 | 1 24 |
| W29 | 21 31 | 7 36 | 0n12 | 22 42 | 1 0 | 19 47 | 0 27 | 24 17 | 0 53 | 10 56 | 1 21 | 22 29 | 0 49 | 4 15 | 0 40 | 15 42 | 0 22 | 21 41 | 1 9 | 6 57 | 6 16 | 7 12 | 6 29 | 1 24 |
| T 30 | 21s41 | 10s54 | 1n15 | 23s 3 | 1s 6 | 19s25 | 0s11 | 24s18 | 0s53 | 10n54 | 1s21 | 22n29 | 0s49 | 4n15 | 0s40 | 15s41 | 0s22 | 21n41 | 1s 9 | 6s56 | 6s15 | 7s13 | 6n28 | 1n24 |

Julian Day Number = 2334606.5, Delta T = 23.76 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'16, Lahiri = 19°23'17Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1679
# geocentric

## DECEMBER 1679 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 39 39 | 9♐ 0'07 | 13♏37 | 11♐22 | 25°R19 | 26♐53 | 1°R52 | 6°R53 | 12°R16 | 18♒25 | 13°R 6 | 17°R36 | 15♎49 | 19♎13 | 13°R 5 | F 1 |
| S 2 | 4 43 35 | 10° 1'04 | 25°43 | 12°56 | 24♏52 | 27°38 | 1♉47 | 6♋49 | 12♈15 | 18°26 | 13♋ 5 | 17♎30 | 15°46 | 19°20 | 13♈ 4 | S 2 |
| S 3 | 4 47 32 | 11° 2'03 | 8♐ 1 | 14°30 | 24°27 | 28°24 | 1°43 | 6°45 | 12°14 | 18°27 | 13° 4 | 17°21 | 15°42 | 19°26 | 13° 2 | S 3 |
| M 4 | 4 51 28 | 12° 3'02 | 20°32 | 16° 5 | 24° 5 | 29°10 | 1°38 | 6°41 | 12°13 | 18°29 | 13° 3 | 17°11 | 15°39 | 19°33 | 13° 1 | M 4 |
| T 5 | 4 55 25 | 13° 4'02 | 3♑15 | 17°39 | 23°45 | 29°56 | 1°34 | 6°36 | 12°13 | 18°30 | 13° 2 | 17° 1 | 15°36 | 19°40 | 13° 0 | T 5 |
| W 6 | 4 59 21 | 14° 5'04 | 16°11 | 19°13 | 23°27 | 0♑41 | 1°30 | 6°32 | 12°12 | 18°31 | 13° 1 | 16°50 | 15°33 | 19°46 | 12°59 | W 6 |
| T 7 | 5 3 18 | 15° 6'05 | 29°19 | 20°47 | 23°12 | 1°27 | 1°26 | 6°28 | 12°11 | 18°32 | 13° 0 | 16°41 | 15°30 | 19°53 | 12°58 | T 7 |
| F 8 | 5 7 14 | 16° 7'08 | 12♒38 | 22°22 | 22°58 | 2°13 | 1°22 | 6°23 | 12°10 | 18°33 | 12°59 | 16°34 | 15°26 | 20° 0 | 12°57 | F 8 |
| S 9 | 5 11 11 | 17° 8'11 | 26° 8 | 23°56 | 22°48 | 2°59 | 1°18 | 6°19 | 12°10 | 18°35 | 12°58 | 16°29 | 15°23 | 20° 6 | 12°56 | S 9 |
| S 10 | 5 15 8 | 18° 9'14 | 9♓51 | 25°31 | 22°40 | 3°45 | 1°15 | 6°14 | 12° 9 | 18°36 | 12°56 | 16°27 | 15°20 | 20°13 | 12°55 | S 10 |
| M11 | 5 19 4 | 19°10'18 | 23°45 | 27° 6 | 22°34 | 4°31 | 1°12 | 6° 9 | 12° 9 | 18°37 | 12°55 | 16°D27 | 15°17 | 20°19 | 12°55 | M11 |
| T 12 | 5 23 1 | 20°11'22 | 7♈51 | 28°40 | 22°31 | 5°17 | 1° 9 | 6° 5 | 12° 8 | 18°39 | 12°54 | 16°27 | 15°14 | 20°26 | 12°54 | T 12 |
| W13 | 5 26 57 | 21°12'26 | 22° 9 | 0♑15 | 22°D30 | 6° 3 | 1° 6 | 6° 0 | 12° 8 | 18°40 | 12°53 | 16°R28 | 15°11 | 20°33 | 12°53 | W13 |
| T 14 | 5 30 54 | 22°13'31 | 6♉36 | 1°50 | 22°32 | 6°49 | 1° 3 | 5°55 | 12° 7 | 18°42 | 12°52 | 16°26 | 15° 7 | 20°39 | 12°53 | T 14 |
| F 15 | 5 34 50 | 23°14'36 | 21° 9 | 3°25 | 22°36 | 7°36 | 1° 1 | 5°51 | 12° 7 | 18°43 | 12°51 | 16°22 | 15° 4 | 20°46 | 12°52 | F 15 |
| S 16 | 5 38 47 | 24°15'42 | 5♊43 | 5° 0 | 22°42 | 8°22 | 0°59 | 5°46 | 12° 7 | 18°45 | 12°50 | 16°15 | 15° 1 | 20°53 | 12°52 | S 16 |
| S 17 | 5 42 43 | 25°16'48 | 20°11 | 6°35 | 22°51 | 9° 8 | 0°57 | 5°41 | 12° 6 | 18°46 | 12°48 | 16° 5 | 14°58 | 20°59 | 12°51 | S 17 |
| M18 | 5 46 40 | 26°17'54 | 4♋26 | 8° 9 | 23° 2 | 9°55 | 0°55 | 5°36 | 12° 6 | 18°48 | 12°47 | 15°54 | 14°55 | 21° 6 | 12°51 | M18 |
| T 19 | 5 50 37 | 27°19'01 | 18°22 | 9°44 | 23°15 | 10°41 | 0°54 | 5°31 | 12° 6 | 18°49 | 12°46 | 15°42 | 14°52 | 21°13 | 12°51 | T 19 |
| W20 | 5 54 33 | 28°20'09 | 1♌56 | 11°19 | 23°31 | 11°27 | 0°52 | 5°26 | 12° 6 | 18°51 | 12°45 | 15°31 | 14°48 | 21°19 | 12°50 | W20 |
| T 21 | 5 58 30 | 29°21'16 | 15° 5 | 12°53 | 23°48 | 12°14 | 0°51 | 5°22 | 12°D 6 | 18°52 | 12°43 | 15°21 | 14°45 | 21°26 | 12°50 | T 21 |
| F 22 | 6 2 26 | 0♑22'25 | 27°51 | 14°27 | 24° 8 | 13° 0 | 0°50 | 5°17 | 12° 6 | 18°54 | 12°42 | 15°14 | 14°42 | 21°33 | 12°50 | F 22 |
| S 23 | 6 6 23 | 1°23'33 | 10♍15 | 16° 0 | 24°29 | 13°47 | 0°49 | 5°12 | 12° 6 | 18°56 | 12°41 | 15°10 | 14°39 | 21°39 | 12°50 | S 23 |
| S 24 | 6 10 19 | 2°24'43 | 22°21 | 17°33 | 24°52 | 14°33 | 0°49 | 5° 7 | 12° 6 | 18°57 | 12°40 | 15° 8 | 14°36 | 21°46 | 12°D50 | S 24 |
| M25 | 6 14 16 | 3°25'52 | 4♎16 | 19° 5 | 25°18 | 15°20 | 0°49 | 5° 2 | 12° 6 | 18°59 | 12°39 | 15°D 8 | 14°32 | 21°53 | 12°50 | M25 |
| T 26 | 6 18 12 | 4°27'02 | 16° 4 | 20°37 | 25°45 | 16° 7 | 0°D49 | 4°57 | 12° 7 | 19° 1 | 12°37 | 15°R 8 | 14°29 | 21°59 | 12°50 | T 26 |
| W27 | 6 22 9 | 5°28'13 | 27°51 | 22° 7 | 26°13 | 16°53 | 0°49 | 4°52 | 12° 7 | 19° 3 | 12°36 | 15° 7 | 14°26 | 22° 6 | 12°50 | W27 |
| T 28 | 6 26 6 | 6°29'24 | 9♏43 | 23°35 | 26°43 | 17°40 | 0°49 | 4°47 | 12° 7 | 19° 4 | 12°35 | 15° 5 | 14°23 | 22°12 | 12°50 | T 28 |
| F 29 | 6 30 2 | 7°30'35 | 21°44 | 25° 2 | 27°15 | 18°27 | 0°49 | 4°42 | 12° 7 | 19° 6 | 12°34 | 15° 0 | 14°20 | 22°19 | 12°51 | F 29 |
| S 30 | 6 33 59 | 8°31'46 | 3♐58 | 26°27 | 27°48 | 19°13 | 0°50 | 4°37 | 12° 8 | 19° 8 | 12°32 | 14°52 | 14°17 | 22°26 | 12°51 | S 30 |
| S 31 | 6 37 55 | 9♑32'58 | 16♐28 | 27♑49 | 28♏23 | 20♑ 0 | 0♉51 | 4♋32 | 12♈ 8 | 19♒10 | 12♋31 | 14♎42 | 14♎13 | 22♎32 | 12♈51 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s50 | 13s48 | 2n15 | 23s22 | 1s12 | 19s 4 | 0n 4 | 24s20 | 0s54 | 10n53 | 1s21 | 22n29 | 0s49 | 4n14 | 0s40 | 15s41 | 0s22 | 21n41 | 1s 9 | 6s55 | 6s14 | 7s15 | 6n27 | 1n23 |
| S 2 | 21 59 | 16 9 | 3 10 | 23 40 | 1 17 | 18 43 | 0 19 | 24 21 | 0 54 | 10 51 | 1 21 | 22 30 | 0 48 | 4 14 | 0 40 | 15 41 | 0 22 | 21 42 | 1 9 | 6 53 | 6 13 | 7 17 | 6 27 | 1 23 |
| S 3 | 22 8 | 17 47 | 3 57 | 23 56 | 1 22 | 18 23 | 0 33 | 24 22 | 0 54 | 10 50 | 1 20 | 22 30 | 0 48 | 4 14 | 0 40 | 15 40 | 0 22 | 21 42 | 1 9 | 6 50 | 6 11 | 7 18 | 6 26 | 1 23 |
| M 4 | 22 16 | 18 36 | 4 33 | 24 12 | 1 27 | 18 4 | 0 47 | 24 23 | 0 55 | 10 49 | 1 20 | 22 30 | 0 48 | 4 13 | 0 40 | 15 40 | 0 22 | 21 42 | 1 9 | 6 46 | 6 10 | 7 20 | 6 25 | 1 23 |
| T 5 | 22 24 | 18 30 | 4 56 | 24 26 | 1 32 | 17 45 | 1 1 | 24 24 | 0 55 | 10 47 | 1 20 | 22 31 | 0 48 | 4 13 | 0 40 | 15 39 | 0 22 | 21 42 | 1 9 | 6 42 | 6 9 | 7 22 | 6 25 | 1 23 |
| W 6 | 22 32 | 17 27 | 5 5 | 24 39 | 1 37 | 17 28 | 1 14 | 24 24 | 0 55 | 10 46 | 1 19 | 22 31 | 0 48 | 4 13 | 0 40 | 15 39 | 0 22 | 21 42 | 1 9 | 6 38 | 6 8 | 7 24 | 6 24 | 1 23 |
| T 7 | 22 39 | 15 28 | 4 58 | 24 51 | 1 41 | 17 12 | 1 27 | 24 24 | 0 56 | 10 45 | 1 19 | 22 31 | 0 48 | 4 13 | 0 40 | 15 39 | 0 22 | 21 42 | 1 9 | 6 34 | 6 7 | 7 25 | 6 24 | 1 23 |
| F 8 | 22 45 | 12 39 | 4 34 | 25 1 | 1 46 | 16 56 | 1 40 | 24 24 | 0 56 | 10 44 | 1 19 | 22 31 | 0 48 | 4 12 | 0 40 | 15 38 | 0 22 | 21 42 | 1 8 | 6 31 | 6 5 | 7 27 | 6 23 | 1 22 |
| S 9 | 22 51 | 9 8 | 3 55 | 25 10 | 1 50 | 16 42 | 1 52 | 24 23 | 0 56 | 10 43 | 1 19 | 22 32 | 0 48 | 4 12 | 0 40 | 15 38 | 0 22 | 21 43 | 1 8 | 6 30 | 6 4 | 7 29 | 6 23 | 1 22 |
| S 10 | 22 57 | 5 4 | 3 3 | 25 17 | 1 53 | 16 29 | 2 3 | 24 22 | 0 57 | 10 42 | 1 18 | 22 32 | 0 48 | 4 12 | 0 40 | 15 38 | 0 22 | 21 43 | 1 8 | 6 29 | 6 3 | 7 30 | 6 22 | 1 22 |
| M11 | 23 2 | 0 41 | 1 58 | 25 23 | 1 57 | 16 17 | 2 14 | 24 21 | 0 57 | 10 41 | 1 18 | 22 32 | 0 48 | 4 12 | 0 40 | 15 37 | 0 22 | 21 43 | 1 8 | 6 29 | 6 2 | 7 32 | 6 22 | 1 22 |
| T 12 | 23 7 | 3n49 | 0 46 | 25 28 | 2 0 | 16 6 | 2 25 | 24 20 | 0 57 | 10 41 | 1 18 | 22 33 | 0 48 | 4 12 | 0 40 | 15 37 | 0 22 | 21 43 | 1 8 | 6 29 | 6 0 | 7 34 | 6 21 | 1 22 |
| W13 | 23 11 | 8 10 | 0s30 | 25 31 | 2 3 | 15 56 | 2 34 | 24 18 | 0 58 | 10 40 | 1 17 | 22 33 | 0 48 | 4 11 | 0 40 | 15 36 | 0 22 | 21 43 | 1 8 | 6 29 | 5 59 | 7 35 | 6 21 | 1 22 |
| T 14 | 23 15 | 12 5 | 1 45 | 25 33 | 2 5 | 15 47 | 2 44 | 24 16 | 0 58 | 10 39 | 1 17 | 22 33 | 0 48 | 4 11 | 0 40 | 15 36 | 0 22 | 21 43 | 1 8 | 6 28 | 5 58 | 7 37 | 6 21 | 1 21 |
| F 15 | 23 18 | 15 17 | 2 54 | 25 33 | 2 7 | 15 40 | 2 53 | 24 14 | 0 58 | 10 39 | 1 17 | 22 33 | 0 48 | 4 11 | 0 40 | 15 35 | 0 22 | 21 44 | 1 8 | 6 27 | 5 57 | 7 39 | 6 20 | 1 21 |
| S 16 | 23 21 | 17 31 | 3 51 | 25 32 | 2 9 | 15 33 | 3 1 | 24 11 | 0 59 | 10 38 | 1 16 | 22 34 | 0 47 | 4 11 | 0 40 | 15 35 | 0 22 | 21 44 | 1 8 | 6 24 | 5 56 | 7 40 | 6 20 | 1 21 |
| S 17 | 23 24 | 18 35 | 4 32 | 25 29 | 2 11 | 15 28 | 3 9 | 24 8 | 0 59 | 10 38 | 1 16 | 22 34 | 0 47 | 4 11 | 0 40 | 15 34 | 0 22 | 21 44 | 1 8 | 6 20 | 5 54 | 7 42 | 6 20 | 1 21 |
| M18 | 23 26 | 18 28 | 4 56 | 25 25 | 2 12 | 15 23 | 3 17 | 24 5 | 0 59 | 10 38 | 1 16 | 22 34 | 0 47 | 4 11 | 0 40 | 15 34 | 0 22 | 21 44 | 1 8 | 6 16 | 5 53 | 7 44 | 6 19 | 1 21 |
| T 19 | 23 27 | 17 14 | 5 2 | 25 19 | 2 12 | 15 20 | 3 24 | 24 2 | 0 59 | 10 37 | 1 16 | 22 35 | 0 47 | 4 11 | 0 40 | 15 33 | 0 22 | 21 44 | 1 8 | 6 11 | 5 52 | 7 46 | 6 19 | 1 21 |
| W20 | 23 28 | 15 3 | 4 50 | 25 11 | 2 12 | 15 17 | 3 30 | 23 58 | 1 0 | 10 37 | 1 15 | 22 35 | 0 47 | 4 11 | 0 40 | 15 33 | 0 22 | 21 44 | 1 8 | 6 7 | 5 51 | 7 47 | 6 19 | 1 21 |
| T 21 | 23 29 | 12 9 | 4 23 | 25 2 | 2 12 | 15 15 | 3 36 | 23 55 | 1 0 | 10 37 | 1 15 | 22 35 | 0 47 | 4 11 | 0 40 | 15 32 | 0 22 | 21 45 | 1 8 | 6 3 | 5 49 | 7 49 | 6 19 | 1 20 |
| F 22 | 23 29 | 8 45 | 3 43 | 24 52 | 2 11 | 15 15 | 3 42 | 23 50 | 1 0 | 10 37 | 1 15 | 22 35 | 0 47 | 4 11 | 0 39 | 15 32 | 0 22 | 21 45 | 1 8 | 6 1 | 5 48 | 7 51 | 6 18 | 1 20 |
| S 23 | 23 28 | 5 3 | 2 54 | 24 40 | 2 9 | 15 15 | 3 47 | 23 46 | 1 0 | 10 37 | 1 14 | 22 36 | 0 47 | 4 11 | 0 39 | 15 31 | 0 22 | 21 45 | 1 8 | 5 59 | 5 47 | 7 52 | 6 18 | 1 20 |
| S 24 | 23 27 | 1 14 | 1 58 | 24 26 | 2 7 | 15 15 | 3 52 | 23 41 | 1 1 | 10 37 | 1 14 | 22 36 | 0 47 | 4 11 | 0 39 | 15 31 | 0 22 | 21 45 | 1 8 | 5 58 | 5 46 | 7 54 | 6 18 | 1 20 |
| M25 | 23 26 | 2s35 | 0 57 | 24 11 | 2 5 | 15 17 | 3 57 | 23 36 | 1 1 | 10 37 | 1 14 | 22 36 | 0 47 | 4 11 | 0 39 | 15 30 | 0 22 | 21 45 | 1 8 | 5 58 | 5 44 | 7 56 | 6 18 | 1 20 |
| T 26 | 23 24 | 6 15 | 0n 5 | 23 54 | 2 1 | 15 19 | 4 1 | 23 31 | 1 1 | 10 38 | 1 13 | 22 37 | 0 47 | 4 11 | 0 39 | 15 30 | 0 22 | 21 45 | 1 8 | 5 58 | 5 43 | 7 57 | 6 18 | 1 20 |
| W27 | 23 22 | 9 41 | 1 7 | 23 36 | 1 57 | 15 22 | 4 5 | 23 25 | 1 1 | 10 38 | 1 13 | 22 37 | 0 46 | 4 12 | 0 39 | 15 29 | 0 22 | 21 46 | 1 7 | 5 58 | 5 42 | 7 59 | 6 18 | 1 19 |
| T 28 | 23 19 | 12 45 | 2 6 | 23 16 | 1 53 | 15 26 | 4 8 | 23 20 | 1 2 | 10 38 | 1 13 | 22 37 | 0 46 | 4 12 | 0 39 | 15 29 | 0 22 | 21 46 | 1 7 | 5 57 | 5 41 | 8 1 | 6 18 | 1 19 |
| F 29 | 23 16 | 15 19 | 3 1 | 22 55 | 1 47 | 15 30 | 4 11 | 23 14 | 1 2 | 10 39 | 1 12 | 22 38 | 0 46 | 4 12 | 0 39 | 15 28 | 0 22 | 21 46 | 1 7 | 5 55 | 5 40 | 8 2 | 6 18 | 1 19 |
| S 30 | 23 12 | 17 14 | 3 48 | 22 33 | 1 41 | 15 35 | 4 14 | 23 7 | 1 2 | 10 39 | 1 12 | 22 38 | 0 46 | 4 12 | 0 39 | 15 28 | 0 22 | 21 46 | 1 7 | 5 52 | 5 38 | 8 4 | 6 18 | 1 19 |
| S 31 | 23s 8 | 18s24 | 4n25 | 22s10 | 1s34 | 15s40 | 4n16 | 23s 1 | 1s 2 | 10n40 | 1s12 | 22n38 | 0s46 | 4n12 | 0s39 | 15s27 | 0s22 | 21n46 | 1s 7 | 5s48 | 5s37 | 8s 6 | 6n18 | 1n19 |

Julian Day Number = 2334636.5, Delta T = 23.71 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'20, Lahiri = 19°23'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## JANUARY 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 41 52 | 10♉34'09 | 29♐14 | 29♉ 9 | 28♏59 | 20♉47 | 0♉52 | 4°R27 | 12♈ 9 | 19♒12 | 12°R30 | 14°R29 | 14♎10 | 22♎39 | 12♈52 | M 1 |
| T 2 | 6 45 48 | 11°35'21 | 12♉18 | 0♒24 | 29°37 | 21°34 | 0°54 | 4♋22 | 12°10 | 19°14 | 12♋28 | 14♎15 | 14° 7 | 22°46 | 12°52 | T 2 |
| W 3 | 6 49 45 | 12°36'32 | 25°38 | 1°36 | 0♐15 | 22°21 | 0°55 | 4°17 | 12°10 | 19°15 | 12°27 | 14° 1 | 14° 4 | 22°52 | 12°53 | W 3 |
| T 4 | 6 53 41 | 13°37'43 | 9♒10 | 2°43 | 0°55 | 23° 8 | 0°57 | 4°12 | 12°11 | 19°17 | 12°26 | 13°49 | 14° 1 | 22°59 | 12°54 | T 4 |
| F 5 | 6 57 38 | 14°38'54 | 22°53 | 3°45 | 1°36 | 23°55 | 0°59 | 4° 8 | 12°12 | 19°19 | 12°25 | 13°40 | 13°58 | 23° 6 | 12°54 | F 5 |
| S 6 | 7 1 35 | 15°40'04 | 6♓43 | 4°40 | 2°19 | 24°42 | 1° 1 | 4° 3 | 12°12 | 19°21 | 12°23 | 13°33 | 13°54 | 23°12 | 12°55 | S 6 |
| S 7 | 7 5 31 | 16°41'13 | 20°39 | 5°27 | 3° 2 | 25°29 | 1° 4 | 3°58 | 12°13 | 19°23 | 12°22 | 13°30 | 13°51 | 23°19 | 12°56 | S 7 |
| M 8 | 7 9 28 | 17°42'22 | 4♈39 | 6° 7 | 3°46 | 26°16 | 1° 6 | 3°53 | 12°14 | 19°25 | 12°21 | 13°28 | 13°48 | 23°26 | 12°57 | M 8 |
| T 9 | 7 13 24 | 18°43'30 | 18°41 | 6°38 | 4°32 | 27° 3 | 1° 9 | 3°48 | 12°15 | 19°27 | 12°20 | 13°28 | 13°45 | 23°32 | 12°58 | T 9 |
| W10 | 7 17 21 | 19°44'38 | 2♉47 | 6°59 | 5°18 | 27°50 | 1°12 | 3°44 | 12°16 | 19°29 | 12°18 | 13°28 | 13°42 | 23°39 | 12°59 | W10 |
| T 11 | 7 21 17 | 20°45'45 | 16°54 | 7°R 9 | 6° 5 | 28°37 | 1°15 | 3°39 | 12°17 | 19°31 | 12°17 | 13°26 | 13°38 | 23°46 | 13° 0 | T 11 |
| F 12 | 7 25 14 | 21°46'51 | 1♊ 2 | 7° 8 | 6°53 | 29°24 | 1°18 | 3°34 | 12°18 | 19°33 | 12°16 | 13°21 | 13°35 | 23°52 | 13° 1 | F 12 |
| S 13 | 7 29 10 | 22°47'56 | 15° 8 | 6°55 | 7°42 | 0♒11 | 1°22 | 3°30 | 12°19 | 19°35 | 12°15 | 13°14 | 13°32 | 23°59 | 13° 2 | S 13 |
| S 14 | 7 33 7 | 23°49'01 | 29° 8 | 6°31 | 8°32 | 0°58 | 1°26 | 3°25 | 12°21 | 19°38 | 12°13 | 13° 4 | 13°29 | 24° 5 | 13° 3 | S 14 |
| M15 | 7 37 4 | 24°50'04 | 12♋58 | 5°55 | 9°23 | 1°45 | 1°30 | 3°21 | 12°22 | 19°40 | 12°12 | 12°51 | 13°26 | 24°12 | 13° 4 | M15 |
| T 16 | 7 41 0 | 25°51'08 | 26°35 | 5° 9 | 10°14 | 2°33 | 1°34 | 3°17 | 12°23 | 19°42 | 12°11 | 12°39 | 13°23 | 24°19 | 13° 6 | T 16 |
| W17 | 7 44 57 | 26°52'10 | 9♌55 | 4°12 | 11° 6 | 3°20 | 1°38 | 3°12 | 12°24 | 19°44 | 12°10 | 12°26 | 13°19 | 24°25 | 13° 7 | W17 |
| T 18 | 7 48 53 | 27°53'12 | 22°55 | 3° 8 | 11°59 | 4° 7 | 1°43 | 3° 8 | 12°26 | 19°46 | 12° 8 | 12°16 | 13°16 | 24°32 | 13° 8 | T 18 |
| F 19 | 7 52 50 | 28°54'13 | 5♍36 | 1°58 | 12°52 | 4°54 | 1°47 | 3° 4 | 12°27 | 19°48 | 12° 7 | 12° 8 | 13°13 | 24°39 | 13°10 | F 19 |
| S 20 | 7 56 46 | 29°55'13 | 17°58 | 0°43 | 13°47 | 5°42 | 1°52 | 3° 0 | 12°29 | 19°50 | 12° 6 | 12° 2 | 13°10 | 24°45 | 13°11 | S 20 |
| S 21 | 8 0 43 | 0♒56'13 | 0♎ 5 | 29♉27 | 14°41 | 6°29 | 1°57 | 2°56 | 12°30 | 19°53 | 12° 5 | 12° 0 | 13° 7 | 24°52 | 13°13 | S 21 |
| M22 | 8 4 40 | 1°57'12 | 12° 1 | 28°11 | 15°37 | 7°16 | 2° 3 | 2°52 | 12°32 | 19°55 | 12° 4 | 11°D59 | 13° 4 | 24°59 | 13°14 | M22 |
| T 23 | 8 8 36 | 2°58'10 | 23°50 | 26°58 | 16°33 | 8° 3 | 2° 8 | 2°48 | 12°34 | 19°57 | 12° 2 | 11°59 | 13° 0 | 25° 5 | 13°16 | T 23 |
| W24 | 8 12 33 | 3°59'08 | 5♏38 | 25°49 | 17°29 | 8°51 | 2°14 | 2°44 | 12°35 | 19°59 | 12° 1 | 12°R 0 | 12°57 | 25°12 | 13°18 | W24 |
| T 25 | 8 16 29 | 5° 0'05 | 17°30 | 24°47 | 18°26 | 9°38 | 2°19 | 2°40 | 12°37 | 20° 1 | 12° 0 | 11°59 | 12°54 | 25°19 | 13°20 | T 25 |
| F 26 | 8 20 26 | 6° 1'02 | 29°32 | 23°52 | 19°24 | 10°26 | 2°25 | 2°36 | 12°39 | 20° 4 | 11°59 | 11°56 | 12°51 | 25°25 | 13°21 | F 26 |
| S 27 | 8 24 22 | 7° 1'58 | 11♐49 | 23° 4 | 20°22 | 11°13 | 2°31 | 2°32 | 12°40 | 20° 6 | 11°58 | 11°51 | 12°48 | 25°32 | 13°23 | S 27 |
| S 28 | 8 28 19 | 8° 2'52 | 24°24 | 22°26 | 21°21 | 12° 0 | 2°38 | 2°29 | 12°42 | 20° 8 | 11°57 | 11°43 | 12°44 | 25°39 | 13°25 | S 28 |
| M29 | 8 32 15 | 9° 3'47 | 7♉21 | 21°56 | 22°20 | 12°48 | 2°44 | 2°25 | 12°44 | 20°10 | 11°56 | 11°33 | 12°41 | 25°45 | 13°27 | M29 |
| T 30 | 8 36 12 | 10° 4'40 | 20°39 | 21°34 | 23°19 | 13°35 | 2°51 | 2°22 | 12°46 | 20°13 | 11°54 | 11°22 | 12°38 | 25°52 | 13°29 | T 30 |
| W31 | 8 40 9 | 11♒ 5'32 | 4♒18 | 21♉21 | 24♐19 | 14♒22 | 2♉58 | 2♋19 | 12♈48 | 20♒15 | 11♋53 | 11♎11 | 12♎35 | 25♎58 | 13♈31 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23s 3 | 18s39 | 4n50 | 21s45 | 1s26 | 15s46 | 4n18 | 22s54 | 1s 2 | 10n41 | 1s12 | 22n38 | 0s46 | 4n13 | 0s39 | 15s26 | 0s22 | 21n47 | 1s 7 | 5s43 | 5s36 | 8s 7 | 6n18 | 1n19 |
| T 2 | 22 58 | 17 56 | 5 0 | 21 20 | 1 16 | 15 52 | 4 20 | 22 47 | 1 3 | 10 42 | 1 11 | 22 39 | 0 46 | 4 13 | 0 39 | 15 26 | 0 22 | 21 47 | 1 7 | 5 38 | 5 35 | 8 9 | 6 18 | 1 19 |
| W 3 | 22 53 | 16 14 | 4 54 | 20 55 | 1 6 | 15 59 | 4 21 | 22 39 | 1 3 | 10 42 | 1 11 | 22 39 | 0 46 | 4 13 | 0 39 | 15 25 | 0 22 | 21 47 | 1 7 | 5 32 | 5 33 | 8 10 | 6 18 | 1 18 |
| T 4 | 22 47 | 13 37 | 4 32 | 20 29 | 0 55 | 16 6 | 4 22 | 22 32 | 1 3 | 10 43 | 1 11 | 22 39 | 0 45 | 4 13 | 0 39 | 15 25 | 0 22 | 21 47 | 1 7 | 5 28 | 5 32 | 8 12 | 6 18 | 1 18 |
| F 5 | 22 40 | 10 14 | 3 53 | 20 3 | 0 43 | 16 13 | 4 23 | 22 24 | 1 3 | 10 44 | 1 10 | 22 39 | 0 45 | 4 14 | 0 39 | 15 24 | 0 22 | 21 47 | 1 7 | 5 24 | 5 31 | 8 14 | 6 18 | 1 18 |
| S 6 | 22 33 | 6 15 | 3 1 | 19 37 | 0 30 | 16 20 | 4 24 | 22 15 | 1 3 | 10 45 | 1 10 | 22 40 | 0 45 | 4 14 | 0 39 | 15 23 | 0 22 | 21 47 | 1 7 | 5 21 | 5 30 | 8 15 | 6 18 | 1 18 |
| S 7 | 22 26 | 1 55 | 1 58 | 19 11 | 0 16 | 16 28 | 4 24 | 22 7 | 1 3 | 10 46 | 1 10 | 22 40 | 0 45 | 4 14 | 0 39 | 15 23 | 0 22 | 21 48 | 1 7 | 5 20 | 5 28 | 8 17 | 6 19 | 1 18 |
| M 8 | 22 18 | 2n34 | 0 47 | 18 47 | 0 1 | 16 36 | 4 25 | 21 58 | 1 4 | 10 48 | 1 9 | 22 40 | 0 45 | 4 15 | 0 39 | 15 22 | 0 22 | 21 48 | 1 7 | 5 20 | 5 27 | 8 19 | 6 19 | 1 18 |
| T 9 | 22 10 | 6 55 | 0s28 | 18 24 | 0n16 | 16 45 | 4 25 | 21 49 | 1 4 | 10 49 | 1 9 | 22 41 | 0 45 | 4 15 | 0 39 | 15 22 | 0 22 | 21 48 | 1 7 | 5 19 | 5 26 | 8 20 | 6 19 | 1 17 |
| W10 | 22 1 | 10 53 | 1 40 | 18 2 | 0 33 | 16 53 | 4 24 | 21 40 | 1 4 | 10 50 | 1 9 | 22 41 | 0 45 | 4 16 | 0 39 | 15 21 | 0 22 | 21 48 | 1 7 | 5 19 | 5 25 | 8 22 | 6 19 | 1 17 |
| T 11 | 21 52 | 14 15 | 2 47 | 17 42 | 0 50 | 17 2 | 4 24 | 21 31 | 1 4 | 10 52 | 1 8 | 22 41 | 0 45 | 4 16 | 0 39 | 15 20 | 0 22 | 21 48 | 1 7 | 5 19 | 5 23 | 8 24 | 6 19 | 1 17 |
| F 12 | 21 43 | 16 45 | 3 43 | 17 25 | 1 9 | 17 10 | 4 23 | 21 21 | 1 4 | 10 53 | 1 8 | 22 41 | 0 44 | 4 17 | 0 39 | 15 20 | 0 22 | 21 49 | 1 6 | 5 17 | 5 22 | 8 25 | 6 20 | 1 17 |
| S 13 | 21 33 | 18 14 | 4 26 | 17 10 | 1 27 | 17 19 | 4 22 | 21 11 | 1 4 | 10 55 | 1 8 | 22 42 | 0 44 | 4 17 | 0 39 | 15 19 | 0 22 | 21 49 | 1 6 | 5 14 | 5 21 | 8 27 | 6 20 | 1 17 |
| S 14 | 21 23 | 18 36 | 4 52 | 16 58 | 1 46 | 17 28 | 4 21 | 21 1 | 1 4 | 10 56 | 1 8 | 22 42 | 0 44 | 4 18 | 0 39 | 15 18 | 0 22 | 21 49 | 1 6 | 5 10 | 5 20 | 8 29 | 6 20 | 1 17 |
| M15 | 21 12 | 17 51 | 5 1 | 16 49 | 2 4 | 17 37 | 4 20 | 20 51 | 1 4 | 10 58 | 1 7 | 22 42 | 0 44 | 4 18 | 0 39 | 15 18 | 0 22 | 21 49 | 1 6 | 5 5 | 5 19 | 8 30 | 6 21 | 1 17 |
| T 16 | 21 1 | 16 5 | 4 52 | 16 43 | 2 22 | 17 46 | 4 18 | 20 40 | 1 4 | 10 59 | 1 7 | 22 42 | 0 44 | 4 19 | 0 39 | 15 17 | 0 22 | 21 49 | 1 6 | 5 0 | 5 17 | 8 32 | 6 21 | 1 16 |
| W17 | 20 49 | 13 30 | 4 28 | 16 41 | 2 38 | 17 55 | 4 16 | 20 29 | 1 5 | 11 1 | 1 7 | 22 43 | 0 44 | 4 19 | 0 39 | 15 16 | 0 22 | 21 49 | 1 6 | 4 55 | 5 16 | 8 33 | 6 21 | 1 16 |
| T 18 | 20 37 | 10 17 | 3 49 | 16 41 | 2 53 | 18 3 | 4 15 | 20 18 | 1 5 | 11 3 | 1 6 | 22 43 | 0 44 | 4 20 | 0 38 | 15 16 | 0 22 | 21 50 | 1 6 | 4 51 | 5 15 | 8 35 | 6 22 | 1 16 |
| F 19 | 20 25 | 6 41 | 3 1 | 16 44 | 3 6 | 18 12 | 4 13 | 20 7 | 1 5 | 11 5 | 1 6 | 22 43 | 0 43 | 4 20 | 0 38 | 15 15 | 0 22 | 21 50 | 1 6 | 4 48 | 5 14 | 8 37 | 6 22 | 1 16 |
| S 20 | 20 12 | 2 52 | 2 4 | 16 50 | 3 17 | 18 21 | 4 11 | 19 55 | 1 5 | 11 7 | 1 6 | 22 43 | 0 43 | 4 21 | 0 38 | 15 14 | 0 22 | 21 50 | 1 6 | 4 46 | 5 12 | 8 38 | 6 23 | 1 16 |
| S 21 | 19 59 | 1s 0 | 1 3 | 16 57 | 3 25 | 18 29 | 4 8 | 19 44 | 1 5 | 11 9 | 1 5 | 22 44 | 0 43 | 4 22 | 0 38 | 15 14 | 0 22 | 21 50 | 1 6 | 4 45 | 5 11 | 8 40 | 6 23 | 1 16 |
| M22 | 19 45 | 4 45 | 0n 0 | 17 7 | 3 31 | 18 38 | 4 6 | 19 32 | 1 5 | 11 11 | 1 5 | 22 44 | 0 43 | 4 22 | 0 38 | 15 13 | 0 22 | 21 50 | 1 6 | 4 45 | 5 10 | 8 42 | 6 24 | 1 16 |
| T 23 | 19 32 | 8 17 | 1 3 | 17 17 | 3 35 | 18 46 | 4 3 | 19 20 | 1 5 | 11 13 | 1 5 | 22 44 | 0 43 | 4 23 | 0 38 | 15 12 | 0 22 | 21 51 | 1 6 | 4 45 | 5 9 | 8 43 | 6 24 | 1 15 |
| W24 | 19 17 | 11 29 | 2 3 | 17 29 | 3 36 | 18 54 | 4 1 | 19 7 | 1 5 | 11 15 | 1 5 | 22 44 | 0 43 | 4 24 | 0 38 | 15 12 | 0 22 | 21 51 | 1 6 | 4 45 | 5 7 | 8 45 | 6 25 | 1 15 |
| T 25 | 19 3 | 14 14 | 2 58 | 17 41 | 3 34 | 19 2 | 3 58 | 18 55 | 1 5 | 11 18 | 1 4 | 22 44 | 0 43 | 4 24 | 0 38 | 15 11 | 0 22 | 21 51 | 1 6 | 4 45 | 5 6 | 8 46 | 6 25 | 1 15 |
| F 26 | 18 48 | 16 25 | 3 45 | 17 54 | 3 31 | 19 9 | 3 55 | 18 42 | 1 5 | 11 20 | 1 4 | 22 45 | 0 42 | 4 25 | 0 38 | 15 10 | 0 22 | 21 51 | 1 5 | 4 43 | 5 5 | 8 48 | 6 26 | 1 15 |
| S 27 | 18 33 | 17 53 | 4 24 | 18 7 | 3 26 | 19 17 | 3 52 | 18 29 | 1 5 | 11 22 | 1 4 | 22 45 | 0 42 | 4 26 | 0 38 | 15 10 | 0 22 | 21 51 | 1 5 | 4 41 | 5 4 | 8 50 | 6 27 | 1 15 |
| S 28 | 18 17 | 18 31 | 4 50 | 18 20 | 3 19 | 19 24 | 3 49 | 18 16 | 1 5 | 11 25 | 1 3 | 22 45 | 0 42 | 4 27 | 0 38 | 15 9 | 0 22 | 21 51 | 1 5 | 4 38 | 5 2 | 8 51 | 6 27 | 1 15 |
| M29 | 18 1 | 18 14 | 5 3 | 18 33 | 3 11 | 19 30 | 3 45 | 18 2 | 1 5 | 11 27 | 1 3 | 22 45 | 0 42 | 4 27 | 0 38 | 15 8 | 0 22 | 21 52 | 1 5 | 4 35 | 5 1 | 8 53 | 6 28 | 1 15 |
| T 30 | 17 45 | 16 57 | 5 0 | 18 45 | 3 2 | 19 37 | 3 42 | 17 49 | 1 5 | 11 30 | 1 3 | 22 46 | 0 42 | 4 28 | 0 38 | 15 7 | 0 22 | 21 52 | 1 5 | 4 30 | 5 0 | 8 55 | 6 28 | 1 14 |
| W31 | 17s28 | 14s41 | 4n40 | 18s57 | 2n52 | 19s43 | 3n38 | 17s35 | 1s 5 | 11n32 | 1s 3 | 22n46 | 0s42 | 4n29 | 0s38 | 15s 7 | 0s22 | 21n52 | 1s 5 | 4s26 | 4s59 | 8s56 | 6n29 | 1n14 |

Julian Day Number = 2334667.5, Delta T = 23.66 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'25, Lahiri = 19°23'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## FEBRUARY 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 44 5 | 12♒ 6'22 | 18♒15 | 21°D16 | 25♐19 | 15♒10 | 3♉ 4 | 2°R15 | 12♈50 | 20♒17 | 11°R52 | 11°R 2 | 12♎32 | 26♎ 5 | 13♈33 | T 1 |
| F 2 | 8 48 2 | 13° 7'12 | 2♓25 | 21♑18 | 26°20 | 15°57 | 3°12 | 2♋12 | 12°52 | 20°19 | 11♋51 | 10♎54 | 12°29 | 26°12 | 13°36 | F 2 |
| S 3 | 8 51 58 | 14° 8'00 | 16°42 | 21°27 | 27°21 | 16°45 | 3°19 | 2° 9 | 12°54 | 20°22 | 11°50 | 10°49 | 12°25 | 26°18 | 13°38 | S 3 |
| S 4 | 8 55 55 | 15° 8'47 | 1♈ 3 | 21°43 | 28°22 | 17°32 | 3°26 | 2° 6 | 12°56 | 20°24 | 11°49 | 10°46 | 12°22 | 26°25 | 13°40 | S 4 |
| M 5 | 8 59 51 | 16° 9'32 | 15°22 | 22° 5 | 29°24 | 18°20 | 3°34 | 2° 3 | 12°59 | 20°26 | 11°48 | 10°D46 | 12°19 | 26°32 | 13°42 | M 5 |
| T 6 | 9 3 48 | 17°10'15 | 29°37 | 22°33 | 0♑26 | 19° 7 | 3°41 | 2° 1 | 13° 1 | 20°28 | 11°47 | 10°47 | 12°16 | 26°38 | 13°45 | T 6 |
| W 7 | 9 7 44 | 18°10'57 | 13♉45 | 23° 6 | 1°28 | 19°54 | 3°49 | 1°58 | 13° 3 | 20°31 | 11°46 | 10°R48 | 12°13 | 26°45 | 13°47 | W 7 |
| T 8 | 9 11 41 | 19°11'38 | 27°47 | 23°44 | 2°31 | 20°42 | 3°57 | 1°55 | 13° 5 | 20°33 | 11°45 | 10°47 | 12°10 | 26°52 | 13°50 | T 8 |
| F 9 | 9 15 37 | 20°12'16 | 11♊40 | 24°26 | 3°34 | 21°29 | 4° 5 | 1°53 | 13° 8 | 20°35 | 11°44 | 10°45 | 12° 6 | 26°58 | 13°52 | F 9 |
| S 10 | 9 19 34 | 21°12'53 | 25°24 | 25°12 | 4°37 | 22°17 | 4°14 | 1°51 | 13°10 | 20°37 | 11°43 | 10°41 | 12° 3 | 27° 5 | 13°55 | S 10 |
| S 11 | 9 23 31 | 22°13'28 | 8♋58 | 26° 1 | 5°41 | 23° 4 | 4°22 | 1°48 | 13°13 | 20°40 | 11°42 | 10°35 | 12° 0 | 27°12 | 13°57 | S 11 |
| M12 | 9 27 27 | 23°14'01 | 22°22 | 26°54 | 6°45 | 23°52 | 4°31 | 1°46 | 13°15 | 20°42 | 11°41 | 10°27 | 11°57 | 27°18 | 14° 0 | M12 |
| T 13 | 9 31 24 | 24°14'33 | 5♌33 | 27°50 | 7°49 | 24°39 | 4°40 | 1°44 | 13°18 | 20°44 | 11°40 | 10°18 | 11°54 | 27°25 | 14° 2 | T 13 |
| W14 | 9 35 20 | 25°15'03 | 18°30 | 28°49 | 8°53 | 25°26 | 4°48 | 1°42 | 13°20 | 20°47 | 11°40 | 10°10 | 11°50 | 27°32 | 14° 5 | W14 |
| T 15 | 9 39 17 | 26°15'32 | 1♍13 | 29°51 | 9°58 | 26°14 | 4°57 | 1°40 | 13°23 | 20°49 | 11°39 | 10° 3 | 11°47 | 27°38 | 14° 8 | T 15 |
| F 16 | 9 43 13 | 27°15'58 | 13°41 | 0♒55 | 11° 3 | 27° 1 | 5° 6 | 1°39 | 13°25 | 20°51 | 11°38 | 9°58 | 11°44 | 27°45 | 14°10 | F 16 |
| S 17 | 9 47 10 | 28°16'23 | 25°56 | 2° 2 | 12° 8 | 27°49 | 5°16 | 1°37 | 13°28 | 20°53 | 11°37 | 9°55 | 11°41 | 27°52 | 14°13 | S 17 |
| S 18 | 9 51 6 | 29°16'47 | 7♎59 | 3°10 | 13°14 | 28°36 | 5°25 | 1°35 | 13°31 | 20°56 | 11°36 | 9°D53 | 11°38 | 27°58 | 14°16 | S 18 |
| M19 | 9 55 3 | 0♓17'09 | 19°53 | 4°21 | 14°19 | 29°23 | 5°34 | 1°34 | 13°33 | 20°58 | 11°35 | 9°54 | 11°35 | 28° 5 | 14°19 | M19 |
| T 20 | 9 59 0 | 1°17'30 | 1♏42 | 5°34 | 15°25 | 0♓11 | 5°44 | 1°33 | 13°36 | 21° 0 | 11°35 | 9°55 | 11°31 | 28°11 | 14°22 | T 20 |
| W21 | 10 2 56 | 2°17'49 | 13°30 | 6°48 | 16°31 | 0°58 | 5°54 | 1°32 | 13°39 | 21° 2 | 11°34 | 9°57 | 11°28 | 28°18 | 14°25 | W21 |
| T 22 | 10 6 53 | 3°18'07 | 25°22 | 8° 4 | 17°37 | 1°45 | 6° 4 | 1°30 | 13°41 | 21° 5 | 11°33 | 9°59 | 11°25 | 28°25 | 14°28 | T 22 |
| F 23 | 10 10 49 | 4°18'24 | 7♐24 | 9°22 | 18°43 | 2°33 | 6°14 | 1°29 | 13°44 | 21° 7 | 11°33 | 9°R59 | 11°22 | 28°31 | 14°31 | F 23 |
| S 24 | 10 14 46 | 5°18'38 | 19°40 | 10°41 | 19°50 | 3°20 | 6°24 | 1°29 | 13°47 | 21° 9 | 11°32 | 9°58 | 11°19 | 28°38 | 14°34 | S 24 |
| S 25 | 10 18 42 | 6°18'52 | 2♑14 | 12° 1 | 20°57 | 4° 8 | 6°34 | 1°28 | 13°50 | 21°11 | 11°31 | 9°55 | 11°15 | 28°45 | 14°37 | S 25 |
| M26 | 10 22 39 | 7°19'04 | 15°11 | 13°24 | 22° 4 | 4°55 | 6°44 | 1°27 | 13°53 | 21°14 | 11°31 | 9°51 | 11°12 | 28°51 | 14°40 | M26 |
| T 27 | 10 26 35 | 8°19'14 | 28°33 | 14°47 | 23°11 | 5°42 | 6°55 | 1°27 | 13°56 | 21°16 | 11°30 | 9°46 | 11° 9 | 28°58 | 14°43 | T 27 |
| W28 | 10 30 32 | 9°19'23 | 12♒21 | 16°12 | 24°18 | 6°29 | 7° 5 | 1°26 | 13°59 | 21°18 | 11°29 | 9°41 | 11° 6 | 29° 5 | 14°46 | W28 |
| T 29 | 10 34 29 | 10♓19'29 | 26♒31 | 17♒38 | 25♑26 | 7♓17 | 7♉16 | 1♋26 | 14♈ 2 | 21♒20 | 11♋29 | 9♎37 | 11♎ 3 | 29♎11 | 14♈49 | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s12 | 11s32 | 4n 3 | 19s 8 | 2n42 | 19s49 | 3n35 | 17s21 | 1s 5 | 11n35 | 1s 2 | 22n46 | 0s42 | 4n30 | 0s38 | 15s 6 | 0s22 | 21n52 | 1s 5 | 4s22 | 4s57 | 8s58 | 6n30 | 1n14 |
| F 2 | 16 54 | 7 40 | 3 10 | 19 19 | 2 31 | 19 55 | 3 31 | 17 7 | 1 5 | 11 37 | 1 2 | 22 46 | 0 41 | 4 31 | 0 38 | 15 5 | 0 22 | 21 52 | 1 5 | 4 19 | 4 56 | 8 59 | 6 31 | 1 14 |
| S 3 | 16 37 | 3 20 | 2 5 | 19 28 | 2 19 | 20 0 | 3 27 | 16 52 | 1 5 | 11 40 | 1 2 | 22 46 | 0 41 | 4 31 | 0 38 | 15 5 | 0 22 | 21 52 | 1 5 | 4 17 | 4 55 | 9 1 | 6 31 | 1 14 |
| S 4 | 16 19 | 1n13 | 0 52 | 19 37 | 2 8 | 20 4 | 3 24 | 16 38 | 1 5 | 11 43 | 1 2 | 22 47 | 0 41 | 4 32 | 0 38 | 15 4 | 0 22 | 21 53 | 1 5 | 4 16 | 4 54 | 9 3 | 6 32 | 1 14 |
| M 5 | 16 1 | 5 41 | 0s25 | 19 45 | 1 56 | 20 9 | 3 20 | 16 23 | 1 5 | 11 46 | 1 1 | 22 47 | 0 41 | 4 33 | 0 38 | 15 3 | 0 22 | 21 53 | 1 5 | 4 16 | 4 53 | 9 4 | 6 33 | 1 14 |
| T 6 | 15 43 | 9 48 | 1 40 | 19 53 | 1 44 | 20 13 | 3 16 | 16 8 | 1 5 | 11 49 | 1 1 | 22 47 | 0 41 | 4 34 | 0 38 | 15 2 | 0 22 | 21 53 | 1 5 | 4 16 | 4 51 | 9 6 | 6 34 | 1 14 |
| W 7 | 15 24 | 13 19 | 2 48 | 19 59 | 1 32 | 20 16 | 3 12 | 15 53 | 1 5 | 11 52 | 1 1 | 22 47 | 0 41 | 4 35 | 0 38 | 15 2 | 0 22 | 21 53 | 1 5 | 4 17 | 4 50 | 9 7 | 6 34 | 1 13 |
| T 8 | 15 5 | 16 2 | 3 45 | 20 4 | 1 21 | 20 20 | 3 8 | 15 38 | 1 5 | 11 54 | 1 1 | 22 47 | 0 40 | 4 36 | 0 38 | 15 1 | 0 22 | 21 53 | 1 4 | 4 17 | 4 49 | 9 9 | 6 35 | 1 13 |
| F 9 | 14 46 | 17 46 | 4 29 | 20 8 | 1 9 | 20 22 | 3 3 | 15 23 | 1 5 | 11 57 | 1 0 | 22 48 | 0 40 | 4 37 | 0 38 | 15 0 | 0 22 | 21 53 | 1 4 | 4 16 | 4 48 | 9 11 | 6 36 | 1 13 |
| S 10 | 14 27 | 18 27 | 4 57 | 20 11 | 0 58 | 20 25 | 2 59 | 15 7 | 1 4 | 12 0 | 1 0 | 22 48 | 0 40 | 4 38 | 0 38 | 15 0 | 0 22 | 21 54 | 1 4 | 4 14 | 4 46 | 9 12 | 6 37 | 1 13 |
| S 11 | 14 8 | 18 4 | 5 7 | 20 12 | 0 47 | 20 27 | 2 55 | 14 52 | 1 4 | 12 4 | 1 0 | 22 48 | 0 40 | 4 39 | 0 38 | 14 59 | 0 22 | 21 54 | 1 4 | 4 12 | 4 45 | 9 14 | 6 38 | 1 13 |
| M12 | 13 48 | 16 40 | 5 1 | 20 13 | 0 36 | 20 28 | 2 51 | 14 36 | 1 4 | 12 7 | 1 0 | 22 48 | 0 40 | 4 40 | 0 38 | 14 58 | 0 22 | 21 54 | 1 4 | 4 8 | 4 44 | 9 15 | 6 39 | 1 13 |
| T 13 | 13 28 | 14 24 | 4 39 | 20 13 | 0 26 | 20 29 | 2 46 | 14 20 | 1 4 | 12 10 | 0 59 | 22 48 | 0 40 | 4 41 | 0 38 | 14 57 | 0 22 | 21 54 | 1 4 | 4 5 | 4 43 | 9 17 | 6 40 | 1 13 |
| W14 | 13 8 | 11 28 | 4 2 | 20 11 | 0 15 | 20 29 | 2 42 | 14 4 | 1 4 | 12 13 | 0 59 | 22 49 | 0 39 | 4 42 | 0 38 | 14 57 | 0 22 | 21 54 | 1 4 | 4 2 | 4 41 | 9 18 | 6 41 | 1 13 |
| T 15 | 12 47 | 8 2 | 3 14 | 20 8 | 0 5 | 20 29 | 2 37 | 13 48 | 1 4 | 12 16 | 0 59 | 22 49 | 0 39 | 4 43 | 0 38 | 14 56 | 0 22 | 21 54 | 1 4 | 3 59 | 4 40 | 9 20 | 6 42 | 1 12 |
| F 16 | 12 26 | 4 19 | 2 17 | 20 3 | 0s 4 | 20 29 | 2 33 | 13 31 | 1 4 | 12 19 | 0 59 | 22 49 | 0 39 | 4 44 | 0 38 | 14 55 | 0 22 | 21 54 | 1 4 | 3 57 | 4 39 | 9 22 | 6 42 | 1 12 |
| S 17 | 12 6 | 0 28 | 1 15 | 19 58 | 0 14 | 20 28 | 2 29 | 13 15 | 1 4 | 12 23 | 0 58 | 22 49 | 0 39 | 4 45 | 0 37 | 14 55 | 0 22 | 21 55 | 1 4 | 3 56 | 4 38 | 9 23 | 6 43 | 1 12 |
| S 18 | 11 45 | 3s20 | 0 10 | 19 51 | 0 23 | 20 26 | 2 24 | 12 58 | 1 4 | 12 26 | 0 58 | 22 49 | 0 39 | 4 46 | 0 37 | 14 54 | 0 22 | 21 55 | 1 4 | 3 55 | 4 36 | 9 25 | 6 44 | 1 12 |
| M19 | 11 23 | 6 57 | 0n54 | 19 43 | 0 32 | 20 24 | 2 19 | 12 42 | 1 3 | 12 29 | 0 58 | 22 50 | 0 39 | 4 47 | 0 37 | 14 53 | 0 22 | 21 55 | 1 4 | 3 56 | 4 35 | 9 26 | 6 45 | 1 12 |
| T 20 | 11 2 | 10 16 | 1 56 | 19 34 | 0 40 | 20 21 | 2 15 | 12 25 | 1 3 | 12 33 | 0 58 | 22 50 | 0 38 | 4 48 | 0 37 | 14 52 | 0 22 | 21 55 | 1 4 | 3 56 | 4 34 | 9 28 | 6 46 | 1 12 |
| W21 | 10 40 | 13 10 | 2 53 | 19 23 | 0 48 | 20 18 | 2 10 | 12 8 | 1 3 | 12 36 | 0 57 | 22 50 | 0 38 | 4 49 | 0 37 | 14 52 | 0 22 | 21 55 | 1 3 | 3 57 | 4 33 | 9 30 | 6 47 | 1 12 |
| T 22 | 10 19 | 15 32 | 3 43 | 19 11 | 0 56 | 20 14 | 2 6 | 11 51 | 1 3 | 12 40 | 0 57 | 22 50 | 0 38 | 4 50 | 0 37 | 14 51 | 0 22 | 21 55 | 1 3 | 3 57 | 4 31 | 9 31 | 6 49 | 1 12 |
| F 23 | 9 57 | 17 15 | 4 24 | 18 58 | 1 4 | 20 10 | 2 1 | 11 34 | 1 3 | 12 43 | 0 57 | 22 50 | 0 38 | 4 51 | 0 37 | 14 50 | 0 23 | 21 56 | 1 3 | 3 58 | 4 30 | 9 33 | 6 50 | 1 11 |
| S 24 | 9 35 | 18 12 | 4 53 | 18 43 | 1 11 | 20 5 | 1 56 | 11 16 | 1 3 | 12 47 | 0 57 | 22 50 | 0 38 | 4 52 | 0 37 | 14 50 | 0 23 | 21 56 | 1 3 | 3 57 | 4 29 | 9 34 | 6 51 | 1 11 |
| S 25 | 9 13 | 18 18 | 5 10 | 18 27 | 1 18 | 20 0 | 1 52 | 10 59 | 1 2 | 12 50 | 0 57 | 22 51 | 0 38 | 4 54 | 0 37 | 14 49 | 0 23 | 21 56 | 1 3 | 3 56 | 4 28 | 9 36 | 6 52 | 1 11 |
| M26 | 8 50 | 17 27 | 5 11 | 18 10 | 1 24 | 19 54 | 1 47 | 10 41 | 1 2 | 12 54 | 0 56 | 22 51 | 0 37 | 4 55 | 0 37 | 14 48 | 0 23 | 21 56 | 1 3 | 3 55 | 4 26 | 9 37 | 6 53 | 1 11 |
| T 27 | 8 28 | 15 39 | 4 56 | 17 52 | 1 30 | 19 48 | 1 42 | 10 24 | 1 2 | 12 58 | 0 56 | 22 51 | 0 37 | 4 56 | 0 37 | 14 48 | 0 23 | 21 56 | 1 3 | 3 53 | 4 25 | 9 39 | 6 54 | 1 11 |
| W28 | 8 5 | 12 54 | 4 24 | 17 32 | 1 36 | 19 41 | 1 38 | 10 6 | 1 2 | 13 1 | 0 56 | 22 51 | 0 37 | 4 57 | 0 37 | 14 47 | 0 23 | 21 56 | 1 3 | 3 51 | 4 24 | 9 41 | 6 55 | 1 11 |
| T 29 | 7s43 | 9s20 | 3n34 | 17s11 | 1s41 | 19s34 | 1n33 | 9s48 | 1s 2 | 13n 5 | 0s56 | 22n51 | 0s37 | 4n58 | 0s37 | 14s46 | 0s23 | 21n56 | 1s 3 | 3s49 | 4s23 | 9s42 | 6n56 | 1n11 |

Julian Day Number = 2334698.5, Delta T = 23.61 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'29, Lahiri = 19°23'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## MARCH 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 38 25 | 11♓19'34 | 11♓ 0 | 19♒ 5 | 26♑33 | 8♓ 4 | 7♉26 | 1°R26 | 14♈ 5 | 21♒22 | 11°R28 | 9°R33 | 11♎ 0 | 29♎18 | 14♈53 | F 1 |
| S 2 | 10 42 22 | 12°19'38 | 25°42 | 20°34 | 27°41 | 8°51 | 7°37 | 1°D26 | 14° 8 | 21°25 | 11♋28 | 9♎31 | 10°56 | 29°25 | 14°56 | S 2 |
| S 3 | 10 46 18 | 13°19'39 | 10♈29 | 22° 4 | 28°49 | 9°38 | 7°48 | 1♋26 | 14°11 | 21°27 | 11°27 | 9°D31 | 10°53 | 29°31 | 14°59 | S 3 |
| M 4 | 10 50 15 | 14°19'38 | 25°15 | 23°35 | 29°57 | 10°26 | 7°59 | 1°26 | 14°14 | 21°29 | 11°27 | 9°31 | 10°50 | 29°38 | 15° 2 | M 4 |
| T 5 | 10 54 11 | 15°19'35 | 9♉53 | 25° 7 | 1♒ 5 | 11°13 | 8°10 | 1°26 | 14°17 | 21°31 | 11°26 | 9°33 | 10°47 | 29°45 | 15° 6 | T 5 |
| W 6 | 10 58 8 | 16°19'29 | 24°18 | 26°40 | 2°13 | 12° 0 | 8°22 | 1°27 | 14°20 | 21°33 | 11°26 | 9°34 | 10°44 | 29°51 | 15° 9 | W 6 |
| T 7 | 11 2 4 | 17°19'22 | 8♊27 | 28°15 | 3°21 | 12°47 | 8°33 | 1°27 | 14°23 | 21°35 | 11°25 | 9°35 | 10°41 | 29°58 | 15°12 | T 7 |
| F 8 | 11 6 1 | 18°19'12 | 22°19 | 29°51 | 4°30 | 13°34 | 8°44 | 1°28 | 14°26 | 21°37 | 11°25 | 9°R35 | 10°37 | 0♏ 5 | 15°16 | F 8 |
| S 9 | 11 9 58 | 19°19'00 | 5♋55 | 1♓28 | 5°38 | 14°21 | 8°56 | 1°28 | 14°30 | 21°39 | 11°25 | 9°34 | 10°34 | 0°11 | 15°19 | S 9 |
| S 10 | 11 13 54 | 20°18'46 | 19°14 | 3° 6 | 6°47 | 15° 8 | 9° 8 | 1°29 | 14°33 | 21°41 | 11°24 | 9°33 | 10°31 | 0°18 | 15°23 | S 10 |
| M11 | 11 17 51 | 21°18'30 | 2♌17 | 4°45 | 7°56 | 15°56 | 9°19 | 1°30 | 14°36 | 21°43 | 11°24 | 9°30 | 10°28 | 0°24 | 15°26 | M11 |
| T 12 | 11 21 47 | 22°18'11 | 15° 6 | 6°26 | 9° 5 | 16°43 | 9°31 | 1°31 | 14°39 | 21°45 | 11°24 | 9°28 | 10°25 | 0°31 | 15°30 | T 12 |
| W13 | 11 25 44 | 23°17'50 | 27°42 | 8° 8 | 10°14 | 17°30 | 9°43 | 1°32 | 14°42 | 21°48 | 11°23 | 9°25 | 10°21 | 0°38 | 15°33 | W13 |
| T 14 | 11 29 40 | 24°17'27 | 10♍ 5 | 9°51 | 11°23 | 18°17 | 9°55 | 1°34 | 14°46 | 21°50 | 11°23 | 9°23 | 10°18 | 0°44 | 15°37 | T 14 |
| F 15 | 11 33 37 | 25°17'02 | 22°18 | 11°35 | 12°32 | 19° 3 | 10° 7 | 1°35 | 14°49 | 21°52 | 11°23 | 9°22 | 10°15 | 0°51 | 15°40 | F 15 |
| S 16 | 11 37 33 | 26°16'34 | 4♎22 | 13°21 | 13°41 | 19°50 | 10°19 | 1°36 | 14°52 | 21°53 | 11°23 | 9°D21 | 10°12 | 0°58 | 15°44 | S 16 |
| S 17 | 11 41 30 | 27°16'05 | 16°18 | 15° 8 | 14°51 | 20°37 | 10°31 | 1°38 | 14°56 | 21°55 | 11°22 | 9°21 | 10° 9 | 1° 4 | 15°47 | S 17 |
| M18 | 11 45 26 | 28°15'34 | 28°10 | 16°56 | 16° 0 | 21°24 | 10°43 | 1°40 | 14°59 | 21°57 | 11°22 | 9°22 | 10° 6 | 1°11 | 15°51 | M18 |
| T 19 | 11 49 23 | 29°15'01 | 9♏58 | 18°45 | 17°10 | 22°11 | 10°55 | 1°42 | 15° 2 | 21°59 | 11°22 | 9°23 | 10° 2 | 1°18 | 15°54 | T 19 |
| W20 | 11 53 20 | 0♈14'26 | 21°47 | 20°36 | 18°19 | 22°58 | 11° 8 | 1°43 | 15° 6 | 22° 1 | 11°22 | 9°24 | 9°59 | 1°24 | 15°58 | W20 |
| T 21 | 11 57 16 | 1°13'49 | 3♐40 | 22°28 | 19°29 | 23°45 | 11°20 | 1°45 | 15° 9 | 22° 3 | 11°22 | 9°24 | 9°56 | 1°31 | 16° 2 | T 21 |
| F 22 | 12 1 13 | 2°13'11 | 15°41 | 24°22 | 20°39 | 24°31 | 11°33 | 1°48 | 15°12 | 22° 5 | 11°22 | 9°25 | 9°53 | 1°38 | 16° 5 | F 22 |
| S 23 | 12 5 9 | 3°12'30 | 27°55 | 26°16 | 21°49 | 25°18 | 11°45 | 1°50 | 15°16 | 22° 7 | 11°22 | 9°R25 | 9°50 | 1°44 | 16° 9 | S 23 |
| S 24 | 12 9 6 | 4°11'48 | 10♑27 | 28°12 | 22°59 | 26° 5 | 11°58 | 1°52 | 15°19 | 22° 9 | 11°D22 | 9°25 | 9°47 | 1°51 | 16°13 | S 24 |
| M25 | 12 13 2 | 5°11'04 | 23°19 | 0♈ 9 | 24° 9 | 26°51 | 12°11 | 1°55 | 15°22 | 22°10 | 11°22 | 9°25 | 9°43 | 1°58 | 16°16 | M25 |
| T 26 | 12 16 59 | 6°10'19 | 6♒36 | 2° 8 | 25°19 | 27°38 | 12°23 | 1°57 | 15°26 | 22°12 | 11°22 | 9°25 | 9°40 | 2° 4 | 16°20 | T 26 |
| W27 | 12 20 55 | 7° 9'31 | 20°20 | 4° 8 | 26°29 | 28°25 | 12°36 | 2° 0 | 15°29 | 22°14 | 11°22 | 9°25 | 9°37 | 2°11 | 16°24 | W27 |
| T 28 | 12 24 52 | 8° 8'42 | 4♓30 | 6° 8 | 27°40 | 29°11 | 12°49 | 2° 3 | 15°33 | 22°16 | 11°22 | 9°24 | 9°34 | 2°18 | 16°27 | T 28 |
| F 29 | 12 28 49 | 9° 7'50 | 19° 4 | 8°10 | 28°50 | 29°58 | 13° 2 | 2° 5 | 15°36 | 22°17 | 11°22 | 9°D24 | 9°31 | 2°24 | 16°31 | F 29 |
| S 30 | 12 32 45 | 10° 6'57 | 3♈57 | 10°13 | 0♓ 0 | 0♈44 | 13°15 | 2° 8 | 15°39 | 22°19 | 11°22 | 9°R24 | 9°27 | 2°31 | 16°35 | S 30 |
| S 31 | 12 36 42 | 11♈ 6'02 | 19♈ 1 | 12♈17 | 1♓11 | 1♈31 | 13♉28 | 2♋11 | 15♈43 | 22♒21 | 11♋22 | 9♎24 | 9♎24 | 2♏38 | 16♈38 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 7s20 | 5s 8 | 2n30 | 16s48 | 1s46 | 19s26 | 1n29 | 9s30 | 1s 1 | 13n 9 | 0s56 | 22n51 | 0s37 | 4n59 | 0s37 | 14s45 | 0s23 | 21n56 | 1s 3 | 3s47 | 4s21 | 9s44 | 6n57 | 1n11 | F 1 |
| S 2 | 6 57 | 0 34 | 1 15 | 16 24 | 1 51 | 19 17 | 1 24 | 9 12 | 1 1 | 13 12 | 0 55 | 22 52 | 0 37 | 5 1 | 0 37 | 14 45 | 0 23 | 21 57 | 1 3 | 3 47 | 4 20 | 9 45 | 6 59 | 1 11 | S 2 |
| S 3 | 6 34 | 4n 5 | 0s 5 | 15 59 | 1 55 | 19 8 | 1 19 | 8 54 | 1 1 | 13 16 | 0 55 | 22 52 | 0 36 | 5 2 | 0 37 | 14 44 | 0 23 | 21 57 | 1 3 | 3 46 | 4 19 | 9 47 | 7 0 | 1 10 | S 3 |
| M 4 | 6 11 | 8 27 | 1 26 | 15 33 | 1 59 | 18 59 | 1 15 | 8 36 | 1 1 | 13 20 | 0 55 | 22 52 | 0 36 | 5 3 | 0 37 | 14 43 | 0 23 | 21 57 | 1 2 | 3 47 | 4 18 | 9 48 | 7 1 | 1 10 | M 4 |
| T 5 | 5 48 | 12 16 | 2 40 | 15 5 | 2 2 | 18 49 | 1 10 | 8 18 | 1 0 | 13 24 | 0 55 | 22 52 | 0 36 | 5 4 | 0 37 | 14 43 | 0 23 | 21 57 | 1 2 | 3 47 | 4 16 | 9 50 | 7 2 | 1 10 | T 5 |
| W 6 | 5 24 | 15 17 | 3 42 | 14 36 | 2 5 | 18 38 | 1 6 | 8 0 | 1 0 | 13 27 | 0 55 | 22 52 | 0 36 | 5 5 | 0 37 | 14 42 | 0 23 | 21 57 | 1 2 | 3 48 | 4 15 | 9 51 | 7 3 | 1 10 | W 6 |
| T 7 | 5 1 | 17 18 | 4 30 | 14 6 | 2 8 | 18 27 | 1 1 | 7 42 | 1 0 | 13 31 | 0 54 | 22 52 | 0 36 | 5 7 | 0 37 | 14 41 | 0 23 | 21 57 | 1 2 | 3 48 | 4 14 | 9 53 | 7 4 | 1 10 | T 7 |
| F 8 | 4 38 | 18 14 | 5 2 | 13 34 | 2 10 | 18 15 | 0 57 | 7 23 | 1 0 | 13 35 | 0 54 | 22 53 | 0 36 | 5 8 | 0 37 | 14 41 | 0 23 | 21 57 | 1 2 | 3 48 | 4 13 | 9 55 | 7 6 | 1 10 | F 8 |
| S 9 | 4 14 | 18 6 | 5 15 | 13 1 | 2 12 | 18 3 | 0 52 | 7 5 | 0 59 | 13 39 | 0 54 | 22 53 | 0 35 | 5 9 | 0 37 | 14 40 | 0 23 | 21 57 | 1 2 | 3 48 | 4 11 | 9 56 | 7 7 | 1 10 | S 9 |
| S 10 | 3 51 | 16 58 | 5 11 | 12 27 | 2 13 | 17 50 | 0 48 | 6 46 | 0 59 | 13 43 | 0 54 | 22 53 | 0 35 | 5 10 | 0 37 | 14 39 | 0 23 | 21 58 | 1 2 | 3 47 | 4 10 | 9 58 | 7 8 | 1 10 | S 10 |
| M11 | 3 27 | 14 57 | 4 51 | 11 52 | 2 14 | 17 37 | 0 43 | 6 28 | 0 59 | 13 47 | 0 54 | 22 53 | 0 35 | 5 12 | 0 37 | 14 39 | 0 23 | 21 58 | 1 2 | 3 46 | 4 9 | 9 59 | 7 9 | 1 10 | M11 |
| T 12 | 3 4 | 12 14 | 4 17 | 11 15 | 2 14 | 17 24 | 0 39 | 6 9 | 0 59 | 13 50 | 0 53 | 22 53 | 0 35 | 5 13 | 0 37 | 14 38 | 0 23 | 21 58 | 1 2 | 3 45 | 4 8 | 10 1 | 7 11 | 1 9 | T 12 |
| W13 | 2 40 | 9 0 | 3 31 | 10 37 | 2 14 | 17 9 | 0 34 | 5 51 | 0 58 | 13 54 | 0 53 | 22 53 | 0 35 | 5 14 | 0 37 | 14 38 | 0 23 | 21 58 | 1 2 | 3 44 | 4 6 | 10 2 | 7 12 | 1 9 | W13 |
| T 14 | 2 16 | 5 24 | 2 35 | 9 57 | 2 14 | 16 55 | 0 30 | 5 32 | 0 58 | 13 58 | 0 53 | 22 54 | 0 35 | 5 16 | 0 37 | 14 37 | 0 23 | 21 58 | 1 2 | 3 43 | 4 5 | 10 4 | 7 13 | 1 9 | T 14 |
| F 15 | 1 53 | 1 38 | 1 33 | 9 17 | 2 13 | 16 40 | 0 26 | 5 13 | 0 58 | 14 2 | 0 53 | 22 54 | 0 34 | 5 17 | 0 37 | 14 36 | 0 23 | 21 58 | 1 1 | 3 43 | 4 4 | 10 5 | 7 14 | 1 9 | F 15 |
| S 16 | 1 29 | 2s10 | 0 28 | 8 35 | 2 12 | 16 24 | 0 22 | 4 54 | 0 57 | 14 6 | 0 53 | 22 54 | 0 34 | 5 18 | 0 37 | 14 36 | 0 23 | 21 58 | 1 1 | 3 43 | 4 3 | 10 7 | 7 16 | 1 9 | S 16 |
| S 17 | 1 5 | 5 50 | 0n39 | 7 52 | 2 10 | 16 8 | 0 17 | 4 36 | 0 57 | 14 10 | 0 52 | 22 54 | 0 34 | 5 19 | 0 37 | 14 35 | 0 23 | 21 58 | 1 1 | 3 43 | 4 1 | 10 8 | 7 17 | 1 9 | S 17 |
| M18 | 0 42 | 9 14 | 1 43 | 7 7 | 2 8 | 15 51 | 0 13 | 4 17 | 0 57 | 14 14 | 0 52 | 22 54 | 0 34 | 5 21 | 0 37 | 14 34 | 0 23 | 21 58 | 1 1 | 3 43 | 4 0 | 10 10 | 7 18 | 1 9 | M18 |
| T 19 | 0 18 | 12 16 | 2 42 | 6 22 | 2 5 | 15 34 | 0 9 | 3 58 | 0 56 | 14 18 | 0 52 | 22 54 | 0 34 | 5 22 | 0 37 | 14 34 | 0 23 | 21 59 | 1 1 | 3 43 | 3 59 | 10 11 | 7 20 | 1 9 | T 19 |
| W20 | 0n 6 | 14 47 | 3 35 | 5 35 | 2 1 | 15 17 | 0 5 | 3 39 | 0 56 | 14 22 | 0 52 | 22 54 | 0 34 | 5 23 | 0 37 | 14 33 | 0 23 | 21 59 | 1 1 | 3 44 | 3 58 | 10 13 | 7 21 | 1 9 | W20 |
| T 21 | 0 29 | 16 41 | 4 18 | 4 47 | 1 57 | 14 59 | 0 1 | 3 20 | 0 56 | 14 26 | 0 52 | 22 55 | 0 33 | 5 25 | 0 37 | 14 33 | 0 23 | 21 59 | 1 1 | 3 44 | 3 56 | 10 14 | 7 22 | 1 9 | T 21 |
| F 22 | 0 53 | 17 53 | 4 51 | 3 58 | 1 53 | 14 40 | 0s 3 | 3 1 | 0 55 | 14 30 | 0 52 | 22 55 | 0 33 | 5 26 | 0 37 | 14 32 | 0 23 | 21 59 | 1 1 | 3 44 | 3 55 | 10 16 | 7 24 | 1 9 | F 22 |
| S 23 | 1 17 | 18 16 | 5 12 | 3 8 | 1 48 | 14 22 | 0 7 | 2 43 | 0 55 | 14 34 | 0 51 | 22 55 | 0 33 | 5 27 | 0 37 | 14 31 | 0 23 | 21 59 | 1 1 | 3 44 | 3 54 | 10 18 | 7 25 | 1 8 | S 23 |
| S 24 | 1 40 | 17 47 | 5 18 | 2 17 | 1 43 | 14 3 | 0 10 | 2 24 | 0 55 | 14 38 | 0 51 | 22 55 | 0 33 | 5 29 | 0 37 | 14 31 | 0 23 | 21 59 | 1 1 | 3 44 | 3 53 | 10 19 | 7 26 | 1 8 | S 24 |
| M25 | 2 4 | 16 23 | 5 9 | 1 25 | 1 37 | 13 43 | 0 14 | 2 5 | 0 54 | 14 42 | 0 51 | 22 55 | 0 33 | 5 30 | 0 37 | 14 30 | 0 23 | 21 59 | 1 1 | 3 44 | 3 51 | 10 21 | 7 28 | 1 8 | M25 |
| T 26 | 2 27 | 14 5 | 4 43 | 0 32 | 1 30 | 13 23 | 0 18 | 1 46 | 0 54 | 14 46 | 0 51 | 22 55 | 0 33 | 5 31 | 0 37 | 14 30 | 0 23 | 21 59 | 1 1 | 3 44 | 3 50 | 10 22 | 7 29 | 1 8 | T 26 |
| W27 | 2 51 | 10 56 | 4 1 | 0n22 | 1 23 | 13 3 | 0 21 | 1 27 | 0 53 | 14 50 | 0 51 | 22 55 | 0 33 | 5 32 | 0 37 | 14 29 | 0 23 | 21 59 | 1 0 | 3 44 | 3 49 | 10 24 | 7 30 | 1 8 | W27 |
| T 28 | 3 14 | 7 3 | 3 2 | 1 17 | 1 16 | 12 42 | 0 25 | 1 8 | 0 53 | 14 54 | 0 51 | 22 55 | 0 32 | 5 34 | 0 37 | 14 29 | 0 23 | 21 59 | 1 0 | 3 44 | 3 48 | 10 25 | 7 32 | 1 8 | T 28 |
| F 29 | 3 37 | 2 38 | 1 51 | 2 12 | 1 8 | 12 21 | 0 29 | 0 49 | 0 53 | 14 58 | 0 51 | 22 55 | 0 32 | 5 35 | 0 37 | 14 28 | 0 23 | 21 59 | 1 0 | 3 44 | 3 46 | 10 27 | 7 33 | 1 8 | F 29 |
| S 30 | 4 1 | 2n 2 | 0 30 | 3 8 | 1 0 | 11 59 | 0 32 | 0 30 | 0 52 | 15 2 | 0 50 | 22 56 | 0 32 | 5 36 | 0 37 | 14 28 | 0 23 | 21 59 | 1 0 | 3 44 | 3 45 | 10 28 | 7 34 | 1 8 | S 30 |
| S 31 | 4n24 | 6n38 | 0s53 | 4n 5 | 0s51 | 11s37 | 0s35 | 0s11 | 0s52 | 15n 7 | 0s50 | 22n56 | 0s32 | 5n38 | 0s37 | 14s27 | 0s23 | 22n 0 | 1s 0 | 3s44 | 3s44 | 10s30 | 7n36 | 1n 8 | S 31 |

Julian Day Number = 2334727.5, Delta T = 23.57 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'33, Lahiri = 19°23'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## APRIL 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 40 38 | 12♈ 5'05 | 4♉ 8 | 14♈21 | 2♓21 | 2♈17 | 13♉41 | 2♋15 | 15♈46 | 22♒22 | 11♋22 | 9°R24 | 9♎21 | 2♏44 | 16♈42 | M 1 |
| T 2 | 12 44 35 | 13° 4'05 | 19° 8 | 16°26 | 3°32 | 3° 4 | 13°54 | 2°18 | 15°50 | 22°24 | 11°23 | 9♎24 | 9°18 | 2°51 | 16°46 | T 2 |
| W 3 | 12 48 31 | 14° 3'04 | 3♊54 | 18°31 | 4°43 | 3°50 | 14° 8 | 2°21 | 15°53 | 22°26 | 11°23 | 9°23 | 9°15 | 2°58 | 16°50 | W 3 |
| T 4 | 12 52 28 | 15° 2'00 | 18°20 | 20°37 | 5°53 | 4°36 | 14°21 | 2°25 | 15°57 | 22°27 | 11°23 | 9°23 | 9°12 | 3° 4 | 16°53 | T 4 |
| F 5 | 12 56 24 | 16° 0'54 | 2♋22 | 22°42 | 7° 4 | 5°22 | 14°34 | 2°28 | 16° 0 | 22°29 | 11°23 | 9°22 | 9° 8 | 3°11 | 16°57 | F 5 |
| S 6 | 13 0 21 | 16°59'45 | 16° 1 | 24°46 | 8°15 | 6° 9 | 14°48 | 2°32 | 16° 4 | 22°30 | 11°24 | 9°D22 | 9° 5 | 3°18 | 17° 1 | S 6 |
| S 7 | 13 4 18 | 17°58'34 | 29°15 | 26°50 | 9°25 | 6°55 | 15° 1 | 2°36 | 16° 7 | 22°32 | 11°24 | 9°22 | 9° 2 | 3°24 | 17° 4 | S 7 |
| M 8 | 13 8 14 | 18°57'21 | 12♌ 9 | 28°53 | 10°36 | 7°41 | 15°14 | 2°39 | 16°10 | 22°33 | 11°24 | 9°23 | 8°59 | 3°31 | 17° 8 | M 8 |
| T 9 | 13 12 11 | 19°56'06 | 24°45 | 0♉54 | 11°47 | 8°27 | 15°28 | 2°43 | 16°14 | 22°35 | 11°25 | 9°24 | 8°56 | 3°37 | 17°12 | T 9 |
| W10 | 13 16 7 | 20°54'48 | 7♍ 6 | 2°54 | 12°58 | 9°13 | 15°41 | 2°47 | 16°17 | 22°36 | 11°25 | 9°25 | 8°52 | 3°44 | 17°16 | W10 |
| T 11 | 13 20 4 | 21°53'28 | 19°15 | 4°52 | 14° 9 | 9°59 | 15°55 | 2°51 | 16°21 | 22°37 | 11°25 | 9°26 | 8°49 | 3°51 | 17°19 | T 11 |
| F 12 | 13 24 0 | 22°52'06 | 1♎16 | 6°47 | 15°20 | 10°45 | 16° 9 | 2°56 | 16°24 | 22°39 | 11°26 | 9°27 | 8°46 | 3°57 | 17°23 | F 12 |
| S 13 | 13 27 57 | 23°50'42 | 13°10 | 8°39 | 16°31 | 11°31 | 16°22 | 3° 0 | 16°28 | 22°40 | 11°26 | 9°R27 | 8°43 | 4° 4 | 17°27 | S 13 |
| S 14 | 13 31 53 | 24°49'16 | 25° 0 | 10°28 | 17°42 | 12°17 | 16°36 | 3° 4 | 16°31 | 22°41 | 11°27 | 9°26 | 8°40 | 4°11 | 17°30 | S 14 |
| M15 | 13 35 50 | 25°47'48 | 6♏49 | 12°14 | 18°54 | 13° 3 | 16°50 | 3° 9 | 16°34 | 22°43 | 11°27 | 9°25 | 8°37 | 4°17 | 17°34 | M15 |
| T 16 | 13 39 46 | 26°46'19 | 18°38 | 13°56 | 20° 5 | 13°49 | 17° 3 | 3°13 | 16°38 | 22°44 | 11°28 | 9°23 | 8°33 | 4°24 | 17°38 | T 16 |
| W17 | 13 43 43 | 27°44'47 | 0♐30 | 15°35 | 21°16 | 14°34 | 17°17 | 3°18 | 16°41 | 22°45 | 11°28 | 9°20 | 8°30 | 4°31 | 17°41 | W17 |
| T 18 | 13 47 40 | 28°43'14 | 12°28 | 17° 9 | 22°27 | 15°20 | 17°31 | 3°23 | 16°45 | 22°46 | 11°29 | 9°17 | 8°27 | 4°37 | 17°45 | T 18 |
| F 19 | 13 51 36 | 29°41'39 | 24°33 | 18°40 | 23°39 | 16° 6 | 17°45 | 3°27 | 16°48 | 22°47 | 11°30 | 9°14 | 8°24 | 4°44 | 17°49 | F 19 |
| S 20 | 13 55 33 | 0♑40'03 | 6♑49 | 20° 6 | 24°50 | 16°51 | 17°59 | 3°32 | 16°51 | 22°49 | 11°30 | 9°11 | 8°21 | 4°51 | 17°53 | S 20 |
| S 21 | 13 59 29 | 1°38'24 | 19°19 | 21°27 | 26° 1 | 17°37 | 18°12 | 3°37 | 16°55 | 22°50 | 11°31 | 9°10 | 8°18 | 4°57 | 17°56 | S 21 |
| M22 | 14 3 26 | 2°36'45 | 2♒ 8 | 22°44 | 27°13 | 18°23 | 18°26 | 3°42 | 16°58 | 22°51 | 11°32 | 9°D 9 | 8°14 | 5° 4 | 18° 0 | M22 |
| T 23 | 14 7 22 | 3°35'03 | 15°18 | 23°57 | 28°24 | 19° 8 | 18°40 | 3°47 | 17° 1 | 22°52 | 11°32 | 9°10 | 8°11 | 5°11 | 18° 3 | T 23 |
| W24 | 14 11 19 | 4°33'20 | 28°53 | 25° 5 | 29°36 | 19°54 | 18°54 | 3°52 | 17° 5 | 22°53 | 11°33 | 9°11 | 8° 8 | 5°17 | 18° 7 | W24 |
| T 25 | 14 15 15 | 5°31'36 | 12♓53 | 26° 7 | 0♈47 | 20°39 | 19° 8 | 3°58 | 17° 8 | 22°54 | 11°34 | 9°12 | 8° 5 | 5°24 | 18°11 | T 25 |
| F 26 | 14 19 12 | 6°29'50 | 27°19 | 27° 5 | 1°59 | 21°24 | 19°22 | 4° 3 | 17°11 | 22°55 | 11°34 | 9°13 | 8° 2 | 5°31 | 18°14 | F 26 |
| S 27 | 14 23 9 | 7°28'03 | 12♈ 7 | 27°58 | 3°11 | 22°10 | 19°36 | 4° 8 | 17°14 | 22°56 | 11°35 | 9°R14 | 7°58 | 5°37 | 18°18 | S 27 |
| S 28 | 14 27 5 | 8°26'14 | 27°12 | 28°46 | 4°22 | 22°55 | 19°50 | 4°14 | 17°18 | 22°57 | 11°36 | 9°13 | 7°55 | 5°44 | 18°21 | S 28 |
| M29 | 14 31 2 | 9°24'23 | 12♉25 | 29°29 | 5°34 | 23°40 | 20° 4 | 4°19 | 17°21 | 22°57 | 11°37 | 9°10 | 7°52 | 5°51 | 18°25 | M29 |
| T 30 | 14 34 58 | 10♉22'31 | 27♉37 | 0♊ 7 | 6♈46 | 24♈25 | 20♉18 | 4♋25 | 17♈24 | 22♒58 | 11♋38 | 9♎ 7 | 7♎49 | 5♏57 | 18♈28 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 4n47 | 10n49 | 2s13 | 5n 2 | 0s41 | 11s15 | 0s39 | 0n 8 | 0s51 | 15n11 | 0s50 | 22n56 | 0s32 | 5n39 | 0s37 | 14s27 | 0s23 | 22n 0 | 1s 0 | 3s44 | 3s43 | 10s31 | 7n37 | 1n 8 |
| T 2 | 5 10 | 14 16 | 3 24 | 5 59 | 0 31 | 10 53 | 0 42 | 0 26 | 0 51 | 15 15 | 0 50 | 22 56 | 0 32 | 5 40 | 0 37 | 14 26 | 0 23 | 22 0 | 1 0 | 3 44 | 3 41 | 10 33 | 7 38 | 1 8 |
| W 3 | 5 33 | 16 43 | 4 19 | 6 57 | 0 21 | 10 30 | 0 45 | 0 45 | 0 51 | 15 19 | 0 50 | 22 56 | 0 31 | 5 42 | 0 37 | 14 26 | 0 23 | 22 0 | 1 0 | 3 44 | 3 40 | 10 34 | 7 40 | 1 8 |
| T 4 | 5 56 | 18 2 | 4 57 | 7 54 | 0 11 | 10 7 | 0 48 | 1 4 | 0 50 | 15 23 | 0 50 | 22 56 | 0 31 | 5 43 | 0 37 | 14 25 | 0 23 | 22 0 | 1 0 | 3 43 | 3 39 | 10 36 | 7 41 | 1 8 |
| F 5 | 6 19 | 18 12 | 5 15 | 8 50 | 0 0 | 9 43 | 0 51 | 1 23 | 0 50 | 15 27 | 0 50 | 22 56 | 0 31 | 5 44 | 0 37 | 14 25 | 0 23 | 22 0 | 1 0 | 3 43 | 3 38 | 10 37 | 7 42 | 1 7 |
| S 6 | 6 41 | 17 18 | 5 16 | 9 47 | 0n11 | 9 20 | 0 54 | 1 41 | 0 49 | 15 31 | 0 49 | 22 56 | 0 31 | 5 46 | 0 37 | 14 24 | 0 23 | 22 0 | 1 0 | 3 43 | 3 36 | 10 39 | 7 44 | 1 7 |
| S 7 | 7 4 | 15 28 | 4 59 | 10 42 | 0 22 | 8 56 | 0 57 | 2 0 | 0 49 | 15 35 | 0 49 | 22 56 | 0 31 | 5 47 | 0 37 | 14 24 | 0 23 | 22 0 | 1 0 | 3 43 | 3 35 | 10 40 | 7 45 | 1 7 |
| M 8 | 7 26 | 12 54 | 4 27 | 11 37 | 0 33 | 8 31 | 1 0 | 2 19 | 0 48 | 15 39 | 0 49 | 22 56 | 0 31 | 5 48 | 0 37 | 14 23 | 0 23 | 22 0 | 0 59 | 3 43 | 3 34 | 10 42 | 7 47 | 1 7 |
| T 9 | 7 48 | 9 47 | 3 44 | 12 30 | 0 44 | 8 7 | 1 3 | 2 37 | 0 48 | 15 43 | 0 49 | 22 56 | 0 31 | 5 50 | 0 37 | 14 23 | 0 23 | 22 0 | 0 59 | 3 44 | 3 33 | 10 43 | 7 48 | 1 7 |
| W10 | 8 11 | 6 17 | 2 50 | 13 22 | 0 55 | 7 42 | 1 5 | 2 56 | 0 47 | 15 47 | 0 49 | 22 57 | 0 30 | 5 51 | 0 37 | 14 22 | 0 23 | 22 0 | 0 59 | 3 44 | 3 31 | 10 45 | 7 49 | 1 7 |
| T 11 | 8 33 | 2 35 | 1 50 | 14 12 | 1 6 | 7 17 | 1 8 | 3 15 | 0 47 | 15 51 | 0 49 | 22 57 | 0 30 | 5 52 | 0 37 | 14 22 | 0 23 | 22 0 | 0 59 | 3 45 | 3 30 | 10 46 | 7 51 | 1 7 |
| F 12 | 8 54 | 1s12 | 0 45 | 15 1 | 1 17 | 6 52 | 1 10 | 3 33 | 0 46 | 15 55 | 0 49 | 22 57 | 0 30 | 5 54 | 0 37 | 14 21 | 0 23 | 22 0 | 0 59 | 3 45 | 3 29 | 10 48 | 7 52 | 1 7 |
| S 13 | 9 16 | 4 53 | 0n21 | 15 47 | 1 27 | 6 27 | 1 13 | 3 51 | 0 46 | 15 59 | 0 49 | 22 57 | 0 30 | 5 55 | 0 37 | 14 21 | 0 23 | 22 0 | 0 59 | 3 45 | 3 28 | 10 49 | 7 53 | 1 7 |
| S 14 | 9 38 | 8 22 | 1 25 | 16 32 | 1 37 | 6 1 | 1 15 | 4 10 | 0 46 | 16 3 | 0 48 | 22 57 | 0 30 | 5 56 | 0 37 | 14 21 | 0 23 | 22 0 | 0 59 | 3 45 | 3 26 | 10 51 | 7 55 | 1 7 |
| M15 | 9 59 | 11 31 | 2 26 | 17 14 | 1 47 | 5 35 | 1 17 | 4 28 | 0 45 | 16 7 | 0 48 | 22 57 | 0 30 | 5 58 | 0 37 | 14 20 | 0 23 | 22 0 | 0 59 | 3 44 | 3 25 | 10 52 | 7 56 | 1 7 |
| T 16 | 10 20 | 14 11 | 3 20 | 17 53 | 1 56 | 5 9 | 1 19 | 4 46 | 0 45 | 16 11 | 0 48 | 22 57 | 0 30 | 5 59 | 0 37 | 14 20 | 0 23 | 22 0 | 0 59 | 3 43 | 3 24 | 10 53 | 7 57 | 1 7 |
| W17 | 10 41 | 16 17 | 4 6 | 18 31 | 2 4 | 4 43 | 1 21 | 5 5 | 0 44 | 16 15 | 0 48 | 22 57 | 0 29 | 6 0 | 0 37 | 14 19 | 0 24 | 22 0 | 0 59 | 3 42 | 3 23 | 10 55 | 7 59 | 1 7 |
| T 18 | 11 2 | 17 40 | 4 42 | 19 5 | 2 12 | 4 17 | 1 23 | 5 23 | 0 44 | 16 19 | 0 48 | 22 57 | 0 29 | 6 2 | 0 37 | 14 19 | 0 24 | 22 0 | 0 59 | 3 41 | 3 21 | 10 56 | 8 0 | 1 7 |
| F 19 | 11 23 | 18 17 | 5 5 | 19 38 | 2 19 | 3 50 | 1 25 | 5 41 | 0 43 | 16 23 | 0 48 | 22 57 | 0 29 | 6 3 | 0 37 | 14 19 | 0 24 | 22 1 | 0 59 | 3 40 | 3 20 | 10 58 | 8 1 | 1 6 |
| S 20 | 11 43 | 18 4 | 5 15 | 20 7 | 2 25 | 3 23 | 1 27 | 5 59 | 0 43 | 16 27 | 0 48 | 22 57 | 0 29 | 6 4 | 0 37 | 14 18 | 0 24 | 22 1 | 0 58 | 3 39 | 3 19 | 10 59 | 8 3 | 1 6 |
| S 21 | 12 4 | 16 58 | 5 10 | 20 34 | 2 30 | 2 57 | 1 29 | 6 17 | 0 42 | 16 31 | 0 48 | 22 57 | 0 29 | 6 5 | 0 37 | 14 18 | 0 24 | 22 1 | 0 58 | 3 38 | 3 18 | 11 1 | 8 4 | 1 6 |
| M22 | 12 24 | 15 0 | 4 50 | 20 59 | 2 34 | 2 30 | 1 31 | 6 35 | 0 42 | 16 35 | 0 47 | 22 57 | 0 29 | 6 7 | 0 37 | 14 18 | 0 24 | 22 1 | 0 58 | 3 38 | 3 16 | 11 2 | 8 6 | 1 6 |
| T 23 | 12 44 | 12 13 | 4 15 | 21 20 | 2 38 | 2 3 | 1 32 | 6 52 | 0 41 | 16 39 | 0 47 | 22 57 | 0 29 | 6 8 | 0 37 | 14 17 | 0 24 | 22 1 | 0 58 | 3 38 | 3 15 | 11 4 | 8 7 | 1 6 |
| W24 | 13 4 | 8 41 | 3 24 | 21 40 | 2 41 | 1 36 | 1 34 | 7 10 | 0 40 | 16 43 | 0 47 | 22 57 | 0 28 | 6 9 | 0 37 | 14 17 | 0 24 | 22 1 | 0 58 | 3 39 | 3 14 | 11 5 | 8 8 | 1 6 |
| T 25 | 13 23 | 4 35 | 2 20 | 21 56 | 2 42 | 1 8 | 1 35 | 7 28 | 0 40 | 16 47 | 0 47 | 22 57 | 0 28 | 6 10 | 0 37 | 14 17 | 0 24 | 22 1 | 0 58 | 3 39 | 3 13 | 11 7 | 8 9 | 1 6 |
| F 26 | 13 42 | 0 4 | 1 5 | 22 11 | 2 43 | 0 41 | 1 36 | 7 45 | 0 39 | 16 51 | 0 47 | 22 57 | 0 28 | 6 12 | 0 37 | 14 16 | 0 24 | 22 1 | 0 58 | 3 40 | 3 11 | 11 8 | 8 11 | 1 6 |
| S 27 | 14 2 | 4n33 | 0s16 | 22 22 | 2 42 | 0 14 | 1 38 | 8 2 | 0 39 | 16 55 | 0 47 | 22 57 | 0 28 | 6 13 | 0 37 | 14 16 | 0 24 | 22 1 | 0 58 | 3 40 | 3 10 | 11 10 | 8 12 | 1 6 |
| S 28 | 14 20 | 8 59 | 1 37 | 22 32 | 2 41 | 0n14 | 1 39 | 8 20 | 0 38 | 16 58 | 0 47 | 22 57 | 0 28 | 6 14 | 0 37 | 14 16 | 0 24 | 22 1 | 0 58 | 3 39 | 3 9 | 11 11 | 8 13 | 1 6 |
| M29 | 14 39 | 12 51 | 2 52 | 22 39 | 2 38 | 0 41 | 1 40 | 8 37 | 0 38 | 17 2 | 0 47 | 22 57 | 0 28 | 6 15 | 0 37 | 14 16 | 0 24 | 22 1 | 0 58 | 3 39 | 3 8 | 11 13 | 8 15 | 1 6 |
| T 30 | 14n57 | 15n51 | 3s55 | 22n43 | 2n34 | 1n 9 | 1s41 | 8n54 | 0s37 | 17n 6 | 0s47 | 22n57 | 0s28 | 6n17 | 0s37 | 14s15 | 0s24 | 22n 1 | 0s58 | 3s37 | 3s 6 | 11s14 | 8n16 | 1n 6 |

Julian Day Number = 2334758.5, Delta T = 23.52 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'37, Lahiri = 19°23'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## MAY 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 38 55 | 11♉20'37 | 12♊38 | 0♊40 | 7♈57 | 25♈10 | 20♉32 | 4♋31 | 17♈27 | 22♒59 | 11♋38 | 9°R 2 | 7♎46 | 6♏ 4 | 18♈32 | W 1 |
| T 2 | 14 42 51 | 12°18'41 | 27°18 | 1° 7 | 9° 9 | 25°55 | 20°47 | 4°36 | 17°31 | 23° 0 | 11°39 | 8♎58 | 7°43 | 6°11 | 18°35 | T 2 |
| F 3 | 14 46 48 | 13°16'43 | 11♋33 | 1°29 | 10°21 | 26°40 | 21° 1 | 4°42 | 17°34 | 23° 1 | 11°40 | 8°54 | 7°39 | 6°17 | 18°39 | F 3 |
| S 4 | 14 50 44 | 14°14'43 | 25°20 | 1°46 | 11°33 | 27°25 | 21°15 | 4°48 | 17°37 | 23° 1 | 11°41 | 8°51 | 7°36 | 6°24 | 18°42 | S 4 |
| S 5 | 14 54 41 | 15°12'42 | 8♌39 | 1°58 | 12°44 | 28°10 | 21°29 | 4°54 | 17°40 | 23° 2 | 11°42 | 8°49 | 7°33 | 6°31 | 18°46 | S 5 |
| M 6 | 14 58 38 | 16°10'38 | 21°32 | 2° 5 | 13°56 | 28°55 | 21°43 | 5° 0 | 17°43 | 23° 3 | 11°43 | 8°D49 | 7°30 | 6°37 | 18°49 | M 6 |
| T 7 | 15 2 34 | 17° 8'33 | 4♍ 3 | 2°R 7 | 15° 8 | 29°40 | 21°57 | 5° 6 | 17°46 | 23° 3 | 11°44 | 8°50 | 7°27 | 6°44 | 18°53 | T 7 |
| W 8 | 15 6 31 | 18° 6'26 | 16°18 | 2° 3 | 16°20 | 0♉25 | 22°11 | 5°12 | 17°50 | 23° 4 | 11°45 | 8°52 | 7°24 | 6°51 | 18°56 | W 8 |
| T 9 | 15 10 27 | 19° 4'17 | 28°20 | 1°55 | 17°32 | 1° 9 | 22°25 | 5°18 | 17°53 | 23° 4 | 11°46 | 8°53 | 7°20 | 6°57 | 18°59 | T 9 |
| F 10 | 15 14 24 | 20° 2'06 | 10♎13 | 1°43 | 18°44 | 1°54 | 22°39 | 5°25 | 17°56 | 23° 5 | 11°47 | 8°R54 | 7°17 | 7° 4 | 19° 3 | F 10 |
| S 11 | 15 18 20 | 20°59'54 | 22° 2 | 1°26 | 19°56 | 2°39 | 22°54 | 5°31 | 17°59 | 23° 5 | 11°48 | 8°53 | 7°14 | 7°11 | 19° 6 | S 11 |
| S 12 | 15 22 17 | 21°57'40 | 3♏50 | 1° 6 | 21° 7 | 3°23 | 23° 8 | 5°37 | 18° 2 | 23° 6 | 11°49 | 8°50 | 7°11 | 7°17 | 19° 9 | S 12 |
| M13 | 15 26 13 | 22°55'25 | 15°39 | 0°42 | 22°19 | 4° 8 | 23°22 | 5°44 | 18° 5 | 23° 6 | 11°50 | 8°45 | 7° 8 | 7°24 | 19°12 | M13 |
| T 14 | 15 30 10 | 23°53'08 | 27°32 | 0°15 | 23°31 | 4°52 | 23°36 | 5°50 | 18° 8 | 23° 7 | 11°51 | 8°38 | 7° 4 | 7°31 | 19°16 | T 14 |
| W15 | 15 34 7 | 24°50'50 | 9♐31 | 29♉45 | 24°43 | 5°37 | 23°50 | 5°57 | 18°10 | 23° 7 | 11°52 | 8°30 | 7° 1 | 7°37 | 19°19 | W15 |
| T 16 | 15 38 3 | 25°48'31 | 21°36 | 29°13 | 25°56 | 6°21 | 24° 4 | 6° 3 | 18°13 | 23° 7 | 11°53 | 8°21 | 6°58 | 7°44 | 19°22 | T 16 |
| F 17 | 15 42 0 | 26°46'11 | 3♑50 | 28°40 | 27° 8 | 7° 5 | 24°18 | 6°10 | 18°16 | 23° 7 | 11°55 | 8°13 | 6°55 | 7°51 | 19°25 | F 17 |
| S 18 | 15 45 56 | 27°43'49 | 16°15 | 28° 6 | 28°20 | 7°49 | 24°33 | 6°16 | 18°19 | 23° 8 | 11°56 | 8° 5 | 6°52 | 7°57 | 19°28 | S 18 |
| S 19 | 15 49 53 | 28°41'27 | 28°51 | 27°32 | 29°32 | 8°33 | 24°47 | 6°23 | 18°22 | 23° 8 | 11°57 | 7°59 | 6°49 | 8° 4 | 19°31 | S 19 |
| M20 | 15 53 49 | 29°39'03 | 11♒43 | 26°58 | 0♉44 | 9°18 | 25° 1 | 6°30 | 18°25 | 23° 8 | 11°58 | 7°56 | 6°45 | 8°11 | 19°34 | M20 |
| T 21 | 15 57 46 | 0♊36'38 | 24°51 | 26°25 | 1°56 | 10° 2 | 25°15 | 6°37 | 18°27 | 23° 8 | 11°59 | 7°D54 | 6°42 | 8°17 | 19°37 | T 21 |
| W22 | 16 1 42 | 1°34'13 | 8♓19 | 25°53 | 3° 8 | 10°46 | 25°29 | 6°44 | 18°30 | 23° 8 | 12° 1 | 7°54 | 6°39 | 8°24 | 19°40 | W22 |
| T 23 | 16 5 39 | 2°31'46 | 22° 8 | 25°24 | 4°20 | 11°30 | 25°43 | 6°50 | 18°33 | 23° 8 | 12° 2 | 7°55 | 6°36 | 8°31 | 19°43 | T 23 |
| F 24 | 16 9 36 | 3°29'19 | 6♈20 | 24°56 | 5°33 | 12°14 | 25°57 | 6°57 | 18°36 | 23° 9 | 12° 3 | 7°R56 | 6°33 | 8°37 | 19°46 | F 24 |
| S 25 | 16 13 32 | 4°26'51 | 20°54 | 24°32 | 6°45 | 12°57 | 26°11 | 7° 4 | 18°38 | 23°R 9 | 12° 4 | 7°55 | 6°29 | 8°44 | 19°49 | S 25 |
| S 26 | 16 17 29 | 5°24'22 | 5♉46 | 24°11 | 7°57 | 13°41 | 26°25 | 7°11 | 18°41 | 23° 9 | 12° 6 | 7°52 | 6°26 | 8°51 | 19°52 | S 26 |
| M27 | 16 21 25 | 6°21'53 | 20°50 | 23°54 | 9°10 | 14°25 | 26°39 | 7°18 | 18°43 | 23° 8 | 12° 7 | 7°47 | 6°23 | 8°57 | 19°55 | M27 |
| T 28 | 16 25 22 | 7°19'22 | 5♊57 | 23°40 | 10°22 | 15° 9 | 26°53 | 7°26 | 18°46 | 23° 8 | 12° 8 | 7°40 | 6°20 | 9° 4 | 19°58 | T 28 |
| W29 | 16 29 18 | 8°16'50 | 20°57 | 23°31 | 11°34 | 15°52 | 27° 7 | 7°33 | 18°48 | 23° 8 | 12°10 | 7°31 | 6°17 | 9°11 | 20° 0 | W29 |
| T 30 | 16 33 15 | 9°14'18 | 5♋41 | 23°26 | 12°47 | 16°36 | 27°21 | 7°40 | 18°51 | 23° 8 | 12°11 | 7°22 | 6°14 | 9°17 | 20° 3 | T 30 |
| F 31 | 16 37 11 | 10♊11'44 | 20♋ 2 | 23°D25 | 13♉59 | 17♉19 | 27♉35 | 7♋47 | 18♈53 | 23♒ 8 | 12♋12 | 7♎13 | 6♎10 | 9♏24 | 20♈ 6 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 15n15 | 17n43 | 4s40 | 22n46 | 2n29 | 1n36 | 1s42 | 9n11 | 0s37 | 17n10 | 0s47 | 22n57 | 0s28 | 6n18 | 0s37 | 14s15 | 0s24 | 22n 1 | 0s58 | 3s35 | 3s 5 | 11s15 | 8n17 | 1n 6 |
| T 2 | 15 33 | 18 21 | 5 6 | 22 45 | 2 24 | 2 4 | 1 43 | 9 28 | 0 36 | 17 14 | 0 46 | 22 56 | 0 27 | 6 19 | 0 37 | 14 15 | 0 24 | 22 1 | 0 57 | 3 33 | 3 4 | 11 17 | 8 19 | 1 6 |
| F 3 | 15 51 | 17 48 | 5 12 | 22 43 | 2 16 | 2 31 | 1 43 | 9 45 | 0 36 | 17 18 | 0 46 | 22 56 | 0 27 | 6 20 | 0 37 | 14 15 | 0 24 | 22 1 | 0 57 | 3 32 | 3 3 | 11 18 | 8 20 | 1 6 |
| S 4 | 16 8 | 16 12 | 5 0 | 22 39 | 2 8 | 2 59 | 1 44 | 10 2 | 0 35 | 17 21 | 0 46 | 22 56 | 0 27 | 6 22 | 0 37 | 14 15 | 0 24 | 22 1 | 0 57 | 3 31 | 3 1 | 11 20 | 8 21 | 1 6 |
| S 5 | 16 25 | 13 46 | 4 31 | 22 32 | 1 59 | 3 26 | 1 45 | 10 18 | 0 34 | 17 25 | 0 46 | 22 56 | 0 27 | 6 23 | 0 37 | 14 14 | 0 24 | 22 1 | 0 57 | 3 30 | 3 0 | 11 21 | 8 22 | 1 6 |
| M 6 | 16 42 | 10 43 | 3 50 | 22 23 | 1 48 | 3 54 | 1 45 | 10 35 | 0 34 | 17 29 | 0 46 | 22 56 | 0 27 | 6 24 | 0 37 | 14 14 | 0 24 | 22 1 | 0 57 | 3 30 | 2 59 | 11 23 | 8 24 | 1 6 |
| T 7 | 16 59 | 7 16 | 2 59 | 22 12 | 1 37 | 4 21 | 1 45 | 10 51 | 0 33 | 17 33 | 0 46 | 22 56 | 0 27 | 6 25 | 0 37 | 14 14 | 0 24 | 22 1 | 0 57 | 3 30 | 2 58 | 11 24 | 8 25 | 1 6 |
| W 8 | 17 15 | 3 34 | 2 0 | 21 59 | 1 24 | 4 48 | 1 46 | 11 7 | 0 33 | 17 36 | 0 46 | 22 56 | 0 27 | 6 26 | 0 37 | 14 14 | 0 24 | 22 1 | 0 57 | 3 31 | 2 56 | 11 26 | 8 26 | 1 5 |
| T 9 | 17 31 | 0s13 | 0 57 | 21 44 | 1 11 | 5 15 | 1 46 | 11 24 | 0 32 | 17 40 | 0 46 | 22 56 | 0 27 | 6 27 | 0 37 | 14 14 | 0 24 | 22 1 | 0 57 | 3 32 | 2 55 | 11 27 | 8 27 | 1 5 |
| F 10 | 17 47 | 3 56 | 0n 7 | 21 27 | 0 56 | 5 43 | 1 46 | 11 40 | 0 32 | 17 44 | 0 46 | 22 56 | 0 26 | 6 29 | 0 37 | 14 13 | 0 24 | 22 1 | 0 57 | 3 32 | 2 54 | 11 28 | 8 29 | 1 5 |
| S 11 | 18 2 | 7 30 | 1 11 | 21 9 | 0 41 | 6 10 | 1 46 | 11 56 | 0 31 | 17 47 | 0 46 | 22 55 | 0 26 | 6 30 | 0 37 | 14 13 | 0 24 | 22 1 | 0 57 | 3 31 | 2 53 | 11 30 | 8 30 | 1 5 |
| S 12 | 18 17 | 10 45 | 2 11 | 20 49 | 0 25 | 6 37 | 1 46 | 12 11 | 0 30 | 17 51 | 0 46 | 22 55 | 0 26 | 6 31 | 0 37 | 14 13 | 0 24 | 22 1 | 0 57 | 3 30 | 2 51 | 11 31 | 8 31 | 1 5 |
| M13 | 18 32 | 13 35 | 3 6 | 20 28 | 0 9 | 7 4 | 1 46 | 12 27 | 0 30 | 17 55 | 0 46 | 22 55 | 0 26 | 6 32 | 0 37 | 14 13 | 0 24 | 22 1 | 0 57 | 3 28 | 2 50 | 11 33 | 8 32 | 1 5 |
| T 14 | 18 46 | 15 52 | 3 53 | 20 6 | 0s 8 | 7 30 | 1 46 | 12 42 | 0 29 | 17 58 | 0 45 | 22 55 | 0 26 | 6 33 | 0 37 | 14 13 | 0 24 | 22 1 | 0 57 | 3 26 | 2 49 | 11 34 | 8 33 | 1 5 |
| W15 | 19 1 | 17 28 | 4 29 | 19 43 | 0 26 | 7 57 | 1 46 | 12 58 | 0 29 | 18 2 | 0 45 | 22 55 | 0 26 | 6 34 | 0 37 | 14 13 | 0 24 | 22 1 | 0 56 | 3 23 | 2 47 | 11 36 | 8 35 | 1 5 |
| T 16 | 19 14 | 18 19 | 4 55 | 19 19 | 0 43 | 8 24 | 1 46 | 13 13 | 0 28 | 18 5 | 0 45 | 22 55 | 0 26 | 6 35 | 0 37 | 14 13 | 0 24 | 22 1 | 0 56 | 3 19 | 2 46 | 11 37 | 8 36 | 1 5 |
| F 17 | 19 28 | 18 19 | 5 6 | 18 54 | 1 1 | 8 50 | 1 45 | 13 28 | 0 27 | 18 9 | 0 45 | 22 54 | 0 26 | 6 36 | 0 37 | 14 13 | 0 24 | 22 1 | 0 56 | 3 16 | 2 45 | 11 38 | 8 37 | 1 5 |
| S 18 | 19 41 | 17 27 | 5 4 | 18 30 | 1 18 | 9 16 | 1 45 | 13 43 | 0 27 | 18 12 | 0 45 | 22 54 | 0 25 | 6 37 | 0 37 | 14 13 | 0 24 | 22 1 | 0 56 | 3 13 | 2 44 | 11 40 | 8 38 | 1 5 |
| S 19 | 19 54 | 15 44 | 4 47 | 18 6 | 1 35 | 9 42 | 1 44 | 13 58 | 0 26 | 18 16 | 0 45 | 22 54 | 0 25 | 6 39 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 10 | 2 42 | 11 41 | 8 39 | 1 5 |
| M20 | 20 7 | 13 12 | 4 16 | 17 42 | 1 52 | 10 8 | 1 44 | 14 13 | 0 26 | 18 19 | 0 45 | 22 54 | 0 25 | 6 40 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 9 | 2 41 | 11 43 | 8 40 | 1 5 |
| T 21 | 20 19 | 9 57 | 3 30 | 17 19 | 2 8 | 10 33 | 1 43 | 14 27 | 0 25 | 18 23 | 0 45 | 22 54 | 0 25 | 6 41 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 8 | 2 40 | 11 44 | 8 41 | 1 5 |
| W22 | 20 31 | 6 7 | 2 32 | 16 56 | 2 23 | 10 59 | 1 42 | 14 42 | 0 24 | 18 26 | 0 45 | 22 53 | 0 25 | 6 42 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 8 | 2 39 | 11 45 | 8 43 | 1 5 |
| T 23 | 20 42 | 1 50 | 1 24 | 16 35 | 2 38 | 11 24 | 1 41 | 14 56 | 0 24 | 18 30 | 0 45 | 22 53 | 0 25 | 6 43 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 9 | 2 37 | 11 47 | 8 44 | 1 5 |
| F 24 | 20 53 | 2n39 | 0 9 | 16 16 | 2 51 | 11 49 | 1 41 | 15 10 | 0 23 | 18 33 | 0 45 | 22 53 | 0 25 | 6 44 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 9 | 2 36 | 11 48 | 8 45 | 1 5 |
| S 25 | 21 4 | 7 6 | 1s 9 | 15 58 | 3 3 | 12 13 | 1 40 | 15 24 | 0 22 | 18 36 | 0 45 | 22 53 | 0 25 | 6 45 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 9 | 2 35 | 11 50 | 8 46 | 1 5 |
| S 26 | 21 14 | 11 13 | 2 24 | 15 42 | 3 15 | 12 38 | 1 39 | 15 38 | 0 22 | 18 40 | 0 45 | 22 52 | 0 25 | 6 46 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 8 | 2 34 | 11 51 | 8 47 | 1 5 |
| M27 | 21 24 | 14 38 | 3 29 | 15 28 | 3 25 | 13 2 | 1 37 | 15 51 | 0 21 | 18 43 | 0 45 | 22 52 | 0 24 | 6 47 | 0 37 | 14 13 | 0 24 | 22 0 | 0 56 | 3 6 | 2 32 | 11 52 | 8 48 | 1 5 |
| T 28 | 21 34 | 17 4 | 4 20 | 15 16 | 3 34 | 13 26 | 1 36 | 16 5 | 0 21 | 18 46 | 0 45 | 22 52 | 0 24 | 6 48 | 0 37 | 14 13 | 0 24 | 22 0 | 0 55 | 3 3 | 2 31 | 11 54 | 8 49 | 1 5 |
| W29 | 21 43 | 18 19 | 4 52 | 15 6 | 3 41 | 13 49 | 1 35 | 16 18 | 0 20 | 18 50 | 0 45 | 22 52 | 0 24 | 6 48 | 0 37 | 14 13 | 0 25 | 22 0 | 0 55 | 2 59 | 2 30 | 11 55 | 8 50 | 1 5 |
| T 30 | 21 52 | 18 17 | 5 4 | 14 59 | 3 48 | 14 12 | 1 34 | 16 31 | 0 19 | 18 53 | 0 44 | 22 51 | 0 24 | 6 49 | 0 37 | 14 13 | 0 25 | 22 0 | 0 55 | 2 56 | 2 29 | 11 57 | 8 51 | 1 5 |
| F 31 | 22n 1 | 17n 5 | 4s57 | 14n54 | 3s53 | 14n35 | 1s33 | 16n44 | 0s19 | 18n56 | 0s44 | 22n51 | 0s24 | 6n50 | 0s37 | 14s13 | 0s25 | 22n 0 | 0s55 | 2s52 | 2s27 | 11s58 | 8n52 | 1n 5 |

Julian Day Number = 2334788.5, Delta T = 23.47 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'41, Lahiri = 19°23'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## JUNE 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 41 8 | 11♊ 9'09 | 3♌55 | 23♉28 | 15♉11 | 18♉ 3 | 27♉49 | 7♋54 | 18♈56 | 23°R 8 | 12♋14 | 7°R 6 | 6♎ 7 | 9♏31 | 20♈ 8 | S 1 |
| S 2 | 16 45 5 | 12° 6'33 | 17°18 | 23°37 | 16°24 | 18°46 | 28° 3 | 8° 2 | 18°58 | 23♒ 8 | 12°15 | 7♎ 2 | 6° 4 | 9°37 | 20°11 | S 2 |
| M 3 | 16 49 1 | 13° 3'56 | 0♍15 | 23°49 | 17°36 | 19°29 | 28°17 | 8° 9 | 19° 0 | 23° 7 | 12°16 | 6°59 | 6° 1 | 9°44 | 20°14 | M 3 |
| T 4 | 16 52 58 | 14° 1'18 | 12°48 | 24° 6 | 18°49 | 20°13 | 28°31 | 8°16 | 19° 3 | 23° 7 | 12°18 | 6°D58 | 5°58 | 9°51 | 20°16 | T 4 |
| W 5 | 16 56 54 | 14°58'39 | 25° 2 | 24°28 | 20° 1 | 20°56 | 28°45 | 8°24 | 19° 5 | 23° 7 | 12°19 | 6°58 | 5°55 | 9°57 | 20°19 | W 5 |
| T 6 | 17 0 51 | 15°55'58 | 7♎ 2 | 24°54 | 21°13 | 21°39 | 28°58 | 8°31 | 19° 7 | 23° 6 | 12°20 | 6°R59 | 5°51 | 10° 4 | 20°21 | T 6 |
| F 7 | 17 4 47 | 16°53'17 | 18°53 | 25°24 | 22°26 | 22°22 | 29°12 | 8°39 | 19° 9 | 23° 6 | 12°22 | 6°58 | 5°48 | 10°11 | 20°24 | F 7 |
| S 8 | 17 8 44 | 17°50'35 | 0♏41 | 25°59 | 23°38 | 23° 5 | 29°26 | 8°46 | 19°12 | 23° 5 | 12°23 | 6°56 | 5°45 | 10°17 | 20°26 | S 8 |
| S 9 | 17 12 40 | 18°47'52 | 12°30 | 26°38 | 24°51 | 23°48 | 29°40 | 8°54 | 19°14 | 23° 5 | 12°25 | 6°51 | 5°42 | 10°24 | 20°28 | S 9 |
| M10 | 17 16 37 | 19°45'08 | 24°22 | 27°21 | 26° 3 | 24°31 | 29°53 | 9° 1 | 19°16 | 23° 5 | 12°26 | 6°43 | 5°39 | 10°31 | 20°30 | M10 |
| T 11 | 17 20 34 | 20°42'23 | 6♐22 | 28° 8 | 27°16 | 25°14 | 0♊ 7 | 9° 9 | 19°18 | 23° 4 | 12°28 | 6°33 | 5°35 | 10°37 | 20°33 | T 11 |
| W12 | 17 24 30 | 21°39'38 | 18°30 | 28°59 | 28°29 | 25°57 | 0°20 | 9°16 | 19°20 | 23° 3 | 12°29 | 6°21 | 5°32 | 10°44 | 20°35 | W12 |
| T 13 | 17 28 27 | 22°36'53 | 0♑47 | 29°53 | 29°41 | 26°40 | 0°34 | 9°24 | 19°22 | 23° 3 | 12°31 | 6° 8 | 5°29 | 10°51 | 20°37 | T 13 |
| F 14 | 17 32 23 | 23°34'07 | 13°16 | 0♊52 | 0♊54 | 27°22 | 0°48 | 9°31 | 19°24 | 23° 2 | 12°32 | 5°56 | 5°26 | 10°57 | 20°39 | F 14 |
| S 15 | 17 36 20 | 24°31'20 | 25°55 | 1°55 | 2° 7 | 28° 5 | 1° 1 | 9°39 | 19°26 | 23° 2 | 12°34 | 5°45 | 5°23 | 11° 4 | 20°41 | S 15 |
| S 16 | 17 40 16 | 25°28'33 | 8♒45 | 3° 1 | 3°19 | 28°48 | 1°15 | 9°47 | 19°27 | 23° 1 | 12°35 | 5°36 | 5°20 | 11°11 | 20°43 | S 16 |
| M17 | 17 44 13 | 26°25'46 | 21°47 | 4°11 | 4°32 | 29°30 | 1°28 | 9°54 | 19°29 | 23° 0 | 12°37 | 5°29 | 5°16 | 11°17 | 20°45 | M17 |
| T 18 | 17 48 9 | 27°22'59 | 5♓ 2 | 5°24 | 5°45 | 0♊12 | 1°41 | 10° 2 | 19°31 | 23° 0 | 12°38 | 5°26 | 5°13 | 11°24 | 20°47 | T 18 |
| W19 | 17 52 6 | 28°20'12 | 18°32 | 6°41 | 6°57 | 0°55 | 1°55 | 10°10 | 19°33 | 22°59 | 12°40 | 5°24 | 5°10 | 11°31 | 20°49 | W19 |
| T 20 | 17 56 3 | 29°17'24 | 2♈17 | 8° 2 | 8°10 | 1°37 | 2° 8 | 10°18 | 19°34 | 22°58 | 12°41 | 5°24 | 5° 7 | 11°37 | 20°51 | T 20 |
| F 21 | 17 59 59 | 0♋14'37 | 16°19 | 9°26 | 9°23 | 2°20 | 2°21 | 10°25 | 19°36 | 22°57 | 12°43 | 5°24 | 5° 4 | 11°44 | 20°53 | F 21 |
| S 22 | 18 3 56 | 1°11'50 | 0♉38 | 10°54 | 10°36 | 3° 2 | 2°34 | 10°33 | 19°38 | 22°56 | 12°44 | 5°23 | 5° 1 | 11°51 | 20°54 | S 22 |
| S 23 | 18 7 52 | 2° 9'03 | 15°11 | 12°25 | 11°49 | 3°44 | 2°48 | 10°41 | 19°39 | 22°56 | 12°46 | 5°19 | 4°57 | 11°57 | 20°56 | S 23 |
| M24 | 18 11 49 | 3° 6'16 | 29°55 | 13°59 | 13° 1 | 4°26 | 3° 1 | 10°49 | 19°41 | 22°55 | 12°47 | 5°13 | 4°54 | 12° 4 | 20°58 | M24 |
| T 25 | 18 15 45 | 4° 3'29 | 14♊44 | 15°36 | 14°14 | 5° 8 | 3°14 | 10°56 | 19°42 | 22°54 | 12°49 | 5° 4 | 4°51 | 12°11 | 20°59 | T 25 |
| W26 | 18 19 42 | 5° 0'42 | 29°28 | 17°17 | 15°27 | 5°50 | 3°27 | 11° 4 | 19°44 | 22°53 | 12°50 | 4°53 | 4°48 | 12°17 | 21° 1 | W26 |
| T 27 | 18 23 38 | 5°57'55 | 14♋ 1 | 19° 1 | 16°40 | 6°32 | 3°40 | 11°12 | 19°45 | 22°52 | 12°52 | 4°42 | 4°45 | 12°24 | 21° 2 | T 27 |
| F 28 | 18 27 35 | 6°55'08 | 28°15 | 20°49 | 17°53 | 7°14 | 3°53 | 11°20 | 19°46 | 22°51 | 12°53 | 4°31 | 4°41 | 12°31 | 21° 4 | F 28 |
| S 29 | 18 31 32 | 7°52'20 | 12♌ 5 | 22°39 | 19° 6 | 7°56 | 4° 5 | 11°27 | 19°48 | 22°50 | 12°55 | 4°22 | 4°38 | 12°37 | 21° 5 | S 29 |
| S 30 | 18 35 28 | 8♋49'33 | 25♌29 | 24♊32 | 20♊19 | 8♊38 | 4♊18 | 11♋35 | 19♈49 | 22♒49 | 12♋57 | 4♎15 | 4♎35 | 12♏44 | 21♈ 7 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | | ☊ | | ⚸ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | | decl | | decl | | decl | lat |
| S 1 | 22n 9 | 14n54 | 4s32 | 14n51 | 3s57 | 14n58 | 1s31 | 16n57 | 0s18 | 18n59 | 0s44 | 22n51 | 0s24 | 6n51 | 0s37 | 14s13 | 0s25 | 22n 0 | 0s55 | 2s49 | 2s26 | 11s59 | 8n53 | 1n 5 |
| S 2 | 22 17 | 11 58 | 3 53 | 14 50 | 4 0 | 15 20 | 1 30 | 17 9 | 0 17 | 19 2 | 0 44 | 22 50 | 0 24 | 6 52 | 0 37 | 14 13 | 0 25 | 22 0 | 0 55 | 2 48 | 2 25 | 12 1 | 8 54 | 1 5 |
| M 3 | 22 24 | 8 33 | 3 3 | 14 51 | 4 2 | 15 42 | 1 28 | 17 22 | 0 17 | 19 5 | 0 44 | 22 50 | 0 24 | 6 53 | 0 37 | 14 13 | 0 25 | 22 0 | 0 55 | 2 47 | 2 24 | 12 2 | 8 55 | 1 5 |
| T 4 | 22 31 | 4 50 | 2 5 | 14 54 | 4 3 | 16 3 | 1 27 | 17 34 | 0 16 | 19 9 | 0 44 | 22 50 | 0 24 | 6 54 | 0 37 | 14 13 | 0 25 | 22 0 | 0 55 | 2 46 | 2 22 | 12 4 | 8 56 | 1 5 |
| W 5 | 22 38 | 1 1 | 1 3 | 15 0 | 4 2 | 16 25 | 1 25 | 17 46 | 0 15 | 19 12 | 0 44 | 22 49 | 0 24 | 6 55 | 0 37 | 14 13 | 0 25 | 22 0 | 0 55 | 2 46 | 2 21 | 12 5 | 8 57 | 1 5 |
| T 6 | 22 44 | 2s47 | 0n 0 | 15 7 | 4 1 | 16 45 | 1 23 | 17 58 | 0 15 | 19 15 | 0 44 | 22 49 | 0 23 | 6 55 | 0 37 | 14 14 | 0 25 | 22 0 | 0 55 | 2 46 | 2 20 | 12 6 | 8 58 | 1 4 |
| F 7 | 22 50 | 6 26 | 1 3 | 15 17 | 3 59 | 17 6 | 1 22 | 18 10 | 0 14 | 19 18 | 0 44 | 22 48 | 0 23 | 6 56 | 0 37 | 14 14 | 0 25 | 22 0 | 0 55 | 2 46 | 2 19 | 12 8 | 8 58 | 1 4 |
| S 8 | 22 55 | 9 49 | 2 3 | 15 28 | 3 55 | 17 26 | 1 20 | 18 22 | 0 13 | 19 21 | 0 44 | 22 48 | 0 23 | 6 57 | 0 37 | 14 14 | 0 25 | 22 0 | 0 55 | 2 45 | 2 17 | 12 9 | 8 59 | 1 4 |
| S 9 | 23 0 | 12 48 | 2 57 | 15 41 | 3 51 | 17 45 | 1 18 | 18 33 | 0 13 | 19 24 | 0 44 | 22 48 | 0 23 | 6 58 | 0 37 | 14 14 | 0 25 | 21 59 | 0 55 | 2 43 | 2 16 | 12 11 | 9 0 | 1 4 |
| M10 | 23 5 | 15 17 | 3 44 | 15 55 | 3 47 | 18 4 | 1 16 | 18 44 | 0 12 | 19 27 | 0 44 | 22 47 | 0 23 | 6 59 | 0 37 | 14 14 | 0 25 | 21 59 | 0 55 | 2 40 | 2 15 | 12 12 | 9 1 | 1 4 |
| T 11 | 23 9 | 17 7 | 4 21 | 16 11 | 3 41 | 18 23 | 1 14 | 18 55 | 0 11 | 19 30 | 0 44 | 22 47 | 0 23 | 6 59 | 0 37 | 14 14 | 0 25 | 21 59 | 0 54 | 2 36 | 2 13 | 12 13 | 9 2 | 1 4 |
| W12 | 23 13 | 18 13 | 4 47 | 16 28 | 3 35 | 18 41 | 1 12 | 19 6 | 0 11 | 19 32 | 0 44 | 22 46 | 0 23 | 7 0 | 0 37 | 14 15 | 0 25 | 21 59 | 0 54 | 2 32 | 2 12 | 12 15 | 9 3 | 1 4 |
| T 13 | 23 16 | 18 29 | 5 0 | 16 47 | 3 27 | 18 58 | 1 10 | 19 17 | 0 10 | 19 35 | 0 44 | 22 46 | 0 23 | 7 1 | 0 37 | 14 15 | 0 25 | 21 59 | 0 54 | 2 27 | 2 11 | 12 16 | 9 3 | 1 4 |
| F 14 | 23 19 | 17 52 | 4 59 | 17 6 | 3 20 | 19 16 | 1 8 | 19 27 | 0 9 | 19 38 | 0 44 | 22 46 | 0 23 | 7 2 | 0 37 | 14 15 | 0 25 | 21 59 | 0 54 | 2 22 | 2 10 | 12 17 | 9 4 | 1 4 |
| S 15 | 23 22 | 16 22 | 4 43 | 17 27 | 3 11 | 19 32 | 1 6 | 19 37 | 0 9 | 19 41 | 0 44 | 22 45 | 0 23 | 7 2 | 0 37 | 14 15 | 0 25 | 21 59 | 0 54 | 2 17 | 2 8 | 12 19 | 9 5 | 1 4 |
| S 16 | 23 24 | 14 2 | 4 13 | 17 49 | 3 3 | 19 48 | 1 4 | 19 48 | 0 8 | 19 44 | 0 44 | 22 45 | 0 22 | 7 3 | 0 37 | 14 16 | 0 25 | 21 59 | 0 54 | 2 14 | 2 7 | 12 20 | 9 6 | 1 4 |
| M17 | 23 26 | 10 58 | 3 29 | 18 11 | 2 53 | 20 4 | 1 2 | 19 57 | 0 7 | 19 46 | 0 44 | 22 44 | 0 22 | 7 4 | 0 37 | 14 16 | 0 25 | 21 59 | 0 54 | 2 11 | 2 6 | 12 21 | 9 6 | 1 4 |
| T 18 | 23 27 | 7 18 | 2 33 | 18 34 | 2 43 | 20 19 | 1 0 | 20 7 | 0 7 | 19 49 | 0 44 | 22 44 | 0 22 | 7 4 | 0 37 | 14 16 | 0 25 | 21 59 | 0 54 | 2 10 | 2 5 | 12 23 | 9 7 | 1 4 |
| W19 | 23 28 | 3 11 | 1 28 | 18 57 | 2 33 | 20 34 | 0 57 | 20 17 | 0 6 | 19 52 | 0 44 | 22 43 | 0 22 | 7 5 | 0 38 | 14 16 | 0 25 | 21 59 | 0 54 | 2 9 | 2 3 | 12 24 | 9 8 | 1 4 |
| T 20 | 23 29 | 1n10 | 0 16 | 19 21 | 2 22 | 20 48 | 0 55 | 20 26 | 0 5 | 19 55 | 0 44 | 22 43 | 0 22 | 7 5 | 0 38 | 14 17 | 0 25 | 21 59 | 0 54 | 2 9 | 2 2 | 12 26 | 9 9 | 1 4 |
| F 21 | 23 29 | 5 33 | 0s57 | 19 44 | 2 11 | 21 1 | 0 53 | 20 35 | 0 5 | 19 57 | 0 44 | 22 42 | 0 22 | 7 6 | 0 38 | 14 17 | 0 25 | 21 59 | 0 54 | 2 9 | 2 1 | 12 27 | 9 9 | 1 4 |
| S 22 | 23 28 | 9 42 | 2 9 | 20 8 | 2 0 | 21 14 | 0 51 | 20 44 | 0 4 | 20 0 | 0 44 | 22 42 | 0 22 | 7 7 | 0 38 | 14 17 | 0 25 | 21 59 | 0 54 | 2 8 | 2 0 | 12 28 | 9 10 | 1 4 |
| S 23 | 23 28 | 13 20 | 3 14 | 20 32 | 1 48 | 21 27 | 0 48 | 20 53 | 0 3 | 20 2 | 0 44 | 22 41 | 0 22 | 7 7 | 0 38 | 14 18 | 0 25 | 21 58 | 0 54 | 2 7 | 1 58 | 12 30 | 9 10 | 1 4 |
| M24 | 23 26 | 16 9 | 4 6 | 20 55 | 1 36 | 21 38 | 0 46 | 21 1 | 0 2 | 20 5 | 0 43 | 22 41 | 0 22 | 7 8 | 0 38 | 14 18 | 0 25 | 21 58 | 0 54 | 2 4 | 1 57 | 12 31 | 9 11 | 1 4 |
| T 25 | 23 25 | 17 56 | 4 42 | 21 18 | 1 24 | 21 50 | 0 44 | 21 10 | 0 2 | 20 7 | 0 43 | 22 40 | 0 22 | 7 8 | 0 38 | 14 18 | 0 25 | 21 58 | 0 54 | 2 1 | 1 56 | 12 32 | 9 12 | 1 4 |
| W26 | 23 23 | 18 29 | 4 59 | 21 41 | 1 12 | 22 0 | 0 41 | 21 18 | 0 1 | 20 10 | 0 43 | 22 40 | 0 21 | 7 9 | 0 38 | 14 19 | 0 25 | 21 58 | 0 53 | 1 57 | 1 55 | 12 34 | 9 12 | 1 4 |
| T 27 | 23 21 | 17 49 | 4 57 | 22 2 | 1 0 | 22 10 | 0 39 | 21 26 | 0 0 | 20 12 | 0 43 | 22 39 | 0 21 | 7 9 | 0 38 | 14 19 | 0 25 | 21 58 | 0 53 | 1 52 | 1 53 | 12 35 | 9 13 | 1 4 |
| F 28 | 23 18 | 16 3 | 4 36 | 22 22 | 0 47 | 22 19 | 0 36 | 21 33 | 0n 0 | 20 15 | 0 43 | 22 38 | 0 21 | 7 10 | 0 38 | 14 19 | 0 25 | 21 58 | 0 53 | 1 48 | 1 52 | 12 36 | 9 13 | 1 4 |
| S 29 | 23 15 | 13 23 | 3 59 | 22 41 | 0 35 | 22 28 | 0 34 | 21 41 | 0 1 | 20 17 | 0 43 | 22 38 | 0 21 | 7 10 | 0 38 | 14 20 | 0 25 | 21 58 | 0 53 | 1 44 | 1 51 | 12 38 | 9 14 | 1 4 |
| S 30 | 23n11 | 10n 5 | 3s 9 | 22n59 | 0s23 | 22n36 | 0s31 | 21n48 | 0n 2 | 20n20 | 0s43 | 22n37 | 0s21 | 7n11 | 0s38 | 14s20 | 0s25 | 21n58 | 0s53 | 1s41 | 1s50 | 12s39 | 9n14 | 1n 4 |

Julian Day Number = 2334819.5, Delta T = 23.42 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'45, Lahiri = 19°23'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## JULY 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 39 25 | 9♋46'45 | 8♍26 | 26♊27 | 21♊32 | 9♊19 | 4♊31 | 11♋43 | 19♈50 | 22°R48 | 12♋58 | 4°R11 | 4♎32 | 12♏51 | 21♈ 8 | M 1 |
| T 2 | 18 43 21 | 10°43'57 | 21° 1 | 28°25 | 22°45 | 10° 1 | 4°44 | 11°51 | 19°51 | 22♒47 | 13° 0 | 4♎ 9 | 4°29 | 12°57 | 21° 9 | T 2 |
| W 3 | 18 47 18 | 11°41'09 | 3♎16 | 0♋26 | 23°58 | 10°43 | 4°56 | 11°59 | 19°52 | 22°45 | 13° 1 | 4°D 8 | 4°26 | 13° 4 | 21°10 | W 3 |
| T 4 | 18 51 14 | 12°38'21 | 15°17 | 2°28 | 25°11 | 11°24 | 5° 9 | 12° 7 | 19°53 | 22°44 | 13° 3 | 4°R 8 | 4°22 | 13°11 | 21°12 | T 4 |
| F 5 | 18 55 11 | 13°35'32 | 27°10 | 4°32 | 26°25 | 12° 5 | 5°21 | 12°14 | 19°54 | 22°43 | 13° 4 | 4° 8 | 4°19 | 13°18 | 21°13 | F 5 |
| S 6 | 18 59 7 | 14°32'44 | 8♏59 | 6°38 | 27°38 | 12°47 | 5°34 | 12°22 | 19°55 | 22°42 | 13° 6 | 4° 6 | 4°16 | 13°24 | 21°14 | S 6 |
| S 7 | 19 3 4 | 15°29'56 | 20°50 | 8°45 | 28°51 | 13°28 | 5°46 | 12°30 | 19°56 | 22°41 | 13° 7 | 4° 1 | 4°13 | 13°31 | 21°15 | S 7 |
| M 8 | 19 7 1 | 16°27'08 | 2♐47 | 10°53 | 0♋ 4 | 14° 9 | 5°58 | 12°38 | 19°57 | 22°40 | 13° 9 | 3°54 | 4°10 | 13°38 | 21°16 | M 8 |
| T 9 | 19 10 57 | 17°24'19 | 14°53 | 13° 2 | 1°17 | 14°51 | 6°10 | 12°46 | 19°58 | 22°38 | 13°11 | 3°45 | 4° 7 | 13°44 | 21°16 | T 9 |
| W10 | 19 14 54 | 18°21'32 | 27°11 | 15°11 | 2°30 | 15°32 | 6°23 | 12°53 | 19°58 | 22°37 | 13°12 | 3°33 | 4° 3 | 13°51 | 21°17 | W10 |
| T 11 | 19 18 50 | 19°18'44 | 9♑42 | 17°19 | 3°44 | 16°13 | 6°35 | 13° 1 | 19°59 | 22°36 | 13°14 | 3°21 | 4° 0 | 13°58 | 21°18 | T 11 |
| F 12 | 19 22 47 | 20°15'57 | 22°27 | 19°28 | 4°57 | 16°54 | 6°47 | 13° 9 | 20° 0 | 22°34 | 13°15 | 3° 9 | 3°57 | 14° 4 | 21°19 | F 12 |
| S 13 | 19 26 43 | 21°13'10 | 5♒25 | 21°36 | 6°10 | 17°35 | 6°59 | 13°17 | 20° 0 | 22°33 | 13°17 | 2°58 | 3°54 | 14°11 | 21°19 | S 13 |
| S 14 | 19 30 40 | 22°10'24 | 18°35 | 23°44 | 7°24 | 18°16 | 7°10 | 13°25 | 20° 1 | 22°32 | 13°18 | 2°49 | 3°51 | 14°18 | 21°20 | S 14 |
| M15 | 19 34 37 | 23° 7'38 | 1♓57 | 25°50 | 8°37 | 18°57 | 7°22 | 13°32 | 20° 2 | 22°30 | 13°20 | 2°43 | 3°47 | 14°24 | 21°21 | M15 |
| T 16 | 19 38 33 | 24° 4'53 | 15°29 | 27°55 | 9°50 | 19°38 | 7°34 | 13°40 | 20° 2 | 22°29 | 13°21 | 2°40 | 3°44 | 14°31 | 21°21 | T 16 |
| W17 | 19 42 30 | 25° 2'08 | 29°10 | 29°59 | 11° 4 | 20°18 | 7°46 | 13°48 | 20° 2 | 22°28 | 13°23 | 2°D39 | 3°41 | 14°38 | 21°22 | W17 |
| T 18 | 19 46 26 | 25°59'25 | 13♈ 2 | 2♌ 3 | 12°17 | 20°59 | 7°57 | 13°55 | 20° 3 | 22°26 | 13°24 | 2°39 | 3°38 | 14°44 | 21°22 | T 18 |
| F 19 | 19 50 23 | 26°56'42 | 27° 3 | 4° 4 | 13°31 | 21°40 | 8° 9 | 14° 3 | 20° 3 | 22°25 | 13°26 | 2°R39 | 3°35 | 14°51 | 21°22 | F 19 |
| S 20 | 19 54 19 | 27°54'01 | 11♉13 | 6° 4 | 14°44 | 22°20 | 8°20 | 14°11 | 20° 3 | 22°23 | 13°27 | 2°39 | 3°32 | 14°58 | 21°23 | S 20 |
| S 21 | 19 58 16 | 28°51'20 | 25°30 | 8° 3 | 15°58 | 23° 1 | 8°31 | 14°18 | 20° 4 | 22°22 | 13°29 | 2°36 | 3°28 | 15° 4 | 21°23 | S 21 |
| M22 | 20 2 12 | 29°48'41 | 9♊53 | 9°59 | 17°11 | 23°41 | 8°42 | 14°26 | 20° 4 | 22°20 | 13°30 | 2°31 | 3°25 | 15°11 | 21°23 | M22 |
| T 23 | 20 6 9 | 0♌46'02 | 24°17 | 11°55 | 18°25 | 24°21 | 8°53 | 14°34 | 20° 4 | 22°19 | 13°32 | 2°24 | 3°22 | 15°18 | 21°23 | T 23 |
| W24 | 20 10 6 | 1°43'25 | 8♋36 | 13°48 | 19°39 | 25° 2 | 9° 4 | 14°41 | 20° 4 | 22°17 | 13°33 | 2°15 | 3°19 | 15°24 | 21°23 | W24 |
| T 25 | 20 14 2 | 2°40'48 | 22°47 | 15°40 | 20°52 | 25°42 | 9°15 | 14°49 | 20°R 4 | 22°16 | 13°35 | 2° 6 | 3°16 | 15°31 | 21°R23 | T 25 |
| F 26 | 20 17 59 | 3°38'13 | 6♌42 | 17°30 | 22° 6 | 26°22 | 9°26 | 14°57 | 20° 4 | 22°14 | 13°36 | 1°57 | 3°13 | 15°38 | 21°23 | F 26 |
| S 27 | 20 21 55 | 4°35'38 | 20°18 | 19°19 | 23°20 | 27° 2 | 9°37 | 15° 4 | 20° 4 | 22°13 | 13°38 | 1°49 | 3° 9 | 15°44 | 21°23 | S 27 |
| S 28 | 20 25 52 | 5°33'04 | 3♍32 | 21° 6 | 24°33 | 27°42 | 9°48 | 15°12 | 20° 4 | 22°11 | 13°39 | 1°43 | 3° 6 | 15°51 | 21°23 | S 28 |
| M29 | 20 29 48 | 6°30'30 | 16°25 | 22°51 | 25°47 | 28°22 | 9°58 | 15°19 | 20° 4 | 22°10 | 13°41 | 1°40 | 3° 3 | 15°58 | 21°23 | M29 |
| T 30 | 20 33 45 | 7°27'58 | 28°57 | 24°35 | 27° 1 | 29° 2 | 10° 9 | 15°27 | 20° 3 | 22° 8 | 13°42 | 1°D39 | 3° 0 | 16° 4 | 21°22 | T 30 |
| W31 | 20 37 41 | 8♌25'26 | 11♎12 | 26♌17 | 28♋15 | 29♊42 | 10♊19 | 15♋34 | 20♈ 3 | 22♒ 7 | 13♋44 | 1♎39 | 2♎57 | 16♏11 | 21♈22 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 23n 7 | 6n23 | 2s12 | 23n15 | 0s11 | 22n44 | 0s29 | 21n55 | 0n 2 | 20n22 | 0s43 | 22n37 | 0s21 | 7n11 | 0s38 | 14s20 | 0s25 | 21n58 | 0s53 | 1s40 | 1s48 | 12s40 | 9n15 | 1n 4 | |
| T 2 | 23 3 | 2 31 | 1 9 | 23 28 | 0n 0 | 22 50 | 0 26 | 22 2 | 0 3 | 20 24 | 0 43 | 22 36 | 0 21 | 7 11 | 0 38 | 14 21 | 0 25 | 21 58 | 0 53 | 1 39 | 1 47 | 12 42 | 9 15 | 1 4 | |
| W 3 | 22 58 | 1s22 | 0 5 | 23 40 | 0 12 | 22 57 | 0 24 | 22 9 | 0 4 | 20 27 | 0 43 | 22 35 | 0 21 | 7 12 | 0 38 | 14 21 | 0 25 | 21 58 | 0 53 | 1 39 | 1 46 | 12 43 | 9 16 | 1 4 | |
| T 4 | 22 53 | 5 8 | 0n59 | 23 50 | 0 22 | 23 2 | 0 21 | 22 16 | 0 5 | 20 29 | 0 43 | 22 35 | 0 21 | 7 12 | 0 38 | 14 21 | 0 25 | 21 57 | 0 53 | 1 39 | 1 44 | 12 44 | 9 16 | 1 4 | |
| F 5 | 22 47 | 8 38 | 1 59 | 23 57 | 0 33 | 23 7 | 0 19 | 22 22 | 0 5 | 20 31 | 0 43 | 22 34 | 0 21 | 7 13 | 0 38 | 14 22 | 0 25 | 21 57 | 0 53 | 1 39 | 1 43 | 12 46 | 9 16 | 1 4 | |
| S 6 | 22 41 | 11 46 | 2 54 | 24 1 | 0 43 | 23 11 | 0 16 | 22 28 | 0 6 | 20 33 | 0 43 | 22 34 | 0 21 | 7 13 | 0 38 | 14 22 | 0 25 | 21 57 | 0 53 | 1 38 | 1 42 | 12 47 | 9 17 | 1 4 | |
| S 7 | 22 35 | 14 26 | 3 41 | 24 3 | 0 52 | 23 15 | 0 14 | 22 34 | 0 7 | 20 36 | 0 43 | 22 33 | 0 21 | 7 13 | 0 38 | 14 23 | 0 25 | 21 57 | 0 53 | 1 36 | 1 41 | 12 48 | 9 17 | 1 4 | |
| M 8 | 22 28 | 16 31 | 4 19 | 24 2 | 1 1 | 23 17 | 0 11 | 22 39 | 0 7 | 20 38 | 0 43 | 22 32 | 0 20 | 7 14 | 0 38 | 14 23 | 0 25 | 21 57 | 0 53 | 1 33 | 1 39 | 12 50 | 9 18 | 1 4 | |
| T 9 | 22 21 | 17 53 | 4 45 | 23 59 | 1 9 | 23 20 | 0 9 | 22 45 | 0 8 | 20 40 | 0 43 | 22 32 | 0 20 | 7 14 | 0 38 | 14 23 | 0 25 | 21 57 | 0 53 | 1 29 | 1 38 | 12 51 | 9 18 | 1 4 | |
| W10 | 22 13 | 18 27 | 4 59 | 23 52 | 1 16 | 23 21 | 0 6 | 22 50 | 0 9 | 20 42 | 0 43 | 22 31 | 0 20 | 7 14 | 0 38 | 14 24 | 0 25 | 21 57 | 0 53 | 1 25 | 1 37 | 12 52 | 9 18 | 1 4 | |
| T 11 | 22 5 | 18 9 | 5 0 | 23 43 | 1 23 | 23 22 | 0 4 | 22 55 | 0 10 | 20 44 | 0 43 | 22 30 | 0 20 | 7 14 | 0 38 | 14 24 | 0 25 | 21 57 | 0 53 | 1 20 | 1 36 | 12 54 | 9 18 | 1 4 | |
| F 12 | 21 57 | 16 55 | 4 45 | 23 31 | 1 29 | 23 22 | 0 1 | 23 0 | 0 10 | 20 46 | 0 43 | 22 30 | 0 20 | 7 15 | 0 38 | 14 25 | 0 26 | 21 57 | 0 53 | 1 15 | 1 34 | 12 55 | 9 19 | 1 4 | |
| S 13 | 21 48 | 14 49 | 4 15 | 23 17 | 1 34 | 23 21 | 0n 1 | 23 5 | 0 11 | 20 48 | 0 43 | 22 29 | 0 20 | 7 15 | 0 38 | 14 25 | 0 26 | 21 57 | 0 52 | 1 11 | 1 33 | 12 56 | 9 19 | 1 4 | |
| S 14 | 21 39 | 11 56 | 3 31 | 23 0 | 1 38 | 23 20 | 0 4 | 23 9 | 0 12 | 20 50 | 0 43 | 22 28 | 0 20 | 7 15 | 0 38 | 14 26 | 0 26 | 21 57 | 0 52 | 1 7 | 1 32 | 12 58 | 9 19 | 1 4 | |
| M15 | 21 30 | 8 23 | 2 36 | 22 40 | 1 41 | 23 18 | 0 6 | 23 13 | 0 12 | 20 52 | 0 43 | 22 28 | 0 20 | 7 15 | 0 38 | 14 26 | 0 26 | 21 56 | 0 52 | 1 5 | 1 31 | 12 59 | 9 19 | 1 4 | |
| T 16 | 21 20 | 4 21 | 1 30 | 22 19 | 1 44 | 23 16 | 0 9 | 23 17 | 0 13 | 20 54 | 0 43 | 22 27 | 0 20 | 7 15 | 0 38 | 14 27 | 0 26 | 21 56 | 0 52 | 1 4 | 1 29 | 13 0 | 9 19 | 1 4 | |
| W17 | 21 10 | 0 3 | 0 19 | 21 55 | 1 46 | 23 12 | 0 11 | 23 21 | 0 14 | 20 56 | 0 43 | 22 26 | 0 20 | 7 15 | 0 38 | 14 27 | 0 26 | 21 56 | 0 52 | 1 3 | 1 28 | 13 1 | 9 20 | 1 4 | |
| T 18 | 20 59 | 4n19 | 0s55 | 21 29 | 1 47 | 23 8 | 0 14 | 23 25 | 0 15 | 20 58 | 0 43 | 22 25 | 0 20 | 7 15 | 0 38 | 14 28 | 0 26 | 21 56 | 0 52 | 1 3 | 1 27 | 13 3 | 9 20 | 1 4 | |
| F 19 | 20 48 | 8 28 | 2 6 | 21 1 | 1 48 | 23 3 | 0 16 | 23 28 | 0 15 | 20 59 | 0 43 | 22 25 | 0 20 | 7 16 | 0 38 | 14 28 | 0 26 | 21 56 | 0 52 | 1 4 | 1 26 | 13 4 | 9 20 | 1 4 | |
| S 20 | 20 37 | 12 12 | 3 10 | 20 32 | 1 48 | 22 58 | 0 19 | 23 31 | 0 16 | 21 1 | 0 43 | 22 24 | 0 19 | 7 16 | 0 38 | 14 29 | 0 26 | 21 56 | 0 52 | 1 3 | 1 24 | 13 5 | 9 20 | 1 4 | |
| S 21 | 20 25 | 15 14 | 4 3 | 20 1 | 1 47 | 22 52 | 0 21 | 23 34 | 0 17 | 21 3 | 0 43 | 22 23 | 0 19 | 7 16 | 0 38 | 14 29 | 0 26 | 21 56 | 0 52 | 1 2 | 1 23 | 13 7 | 9 20 | 1 4 | |
| M22 | 20 13 | 17 20 | 4 41 | 19 28 | 1 46 | 22 45 | 0 23 | 23 37 | 0 17 | 21 5 | 0 43 | 22 23 | 0 19 | 7 16 | 0 38 | 14 30 | 0 26 | 21 56 | 0 52 | 1 0 | 1 22 | 13 8 | 9 20 | 1 4 | |
| T 23 | 20 1 | 18 20 | 5 1 | 18 55 | 1 44 | 22 38 | 0 26 | 23 40 | 0 18 | 21 6 | 0 43 | 22 22 | 0 19 | 7 16 | 0 38 | 14 30 | 0 26 | 21 56 | 0 52 | 0 57 | 1 20 | 13 9 | 9 20 | 1 4 | |
| W24 | 19 48 | 18 10 | 5 2 | 18 20 | 1 41 | 22 30 | 0 28 | 23 42 | 0 19 | 21 8 | 0 43 | 22 21 | 0 19 | 7 16 | 0 38 | 14 31 | 0 26 | 21 56 | 0 52 | 0 54 | 1 19 | 13 10 | 9 20 | 1 4 | |
| T 25 | 19 36 | 16 52 | 4 45 | 17 44 | 1 38 | 22 21 | 0 30 | 23 44 | 0 20 | 21 10 | 0 43 | 22 20 | 0 19 | 7 16 | 0 38 | 14 31 | 0 26 | 21 55 | 0 52 | 0 50 | 1 18 | 13 12 | 9 20 | 1 4 | |
| F 26 | 19 22 | 14 35 | 4 11 | 17 7 | 1 35 | 22 12 | 0 32 | 23 46 | 0 20 | 21 11 | 0 43 | 22 20 | 0 19 | 7 16 | 0 38 | 14 32 | 0 26 | 21 55 | 0 52 | 0 46 | 1 17 | 13 13 | 9 20 | 1 4 | |
| S 27 | 19 9 | 11 32 | 3 23 | 16 29 | 1 31 | 22 2 | 0 35 | 23 48 | 0 21 | 21 13 | 0 43 | 22 19 | 0 19 | 7 16 | 0 39 | 14 32 | 0 26 | 21 55 | 0 52 | 0 43 | 1 15 | 13 14 | 9 20 | 1 4 | |
| S 28 | 18 55 | 7 58 | 2 25 | 15 51 | 1 26 | 21 51 | 0 37 | 23 49 | 0 22 | 21 14 | 0 43 | 22 18 | 0 19 | 7 16 | 0 39 | 14 33 | 0 26 | 21 55 | 0 52 | 0 41 | 1 14 | 13 16 | 9 20 | 1 3 | |
| M29 | 18 41 | 4 8 | 1 21 | 15 12 | 1 21 | 21 40 | 0 39 | 23 51 | 0 23 | 21 16 | 0 43 | 22 17 | 0 19 | 7 16 | 0 39 | 14 33 | 0 26 | 21 55 | 0 52 | 0 40 | 1 13 | 13 17 | 9 20 | 1 3 | |
| T 30 | 18 26 | 0 12 | 0 14 | 14 32 | 1 16 | 21 28 | 0 41 | 23 52 | 0 23 | 21 18 | 0 43 | 22 16 | 0 19 | 7 15 | 0 39 | 14 34 | 0 26 | 21 55 | 0 52 | 0 39 | 1 12 | 13 18 | 9 20 | 1 3 | |
| W31 | 18n11 | 3s39 | 0n51 | 13n52 | 1n10 | 21n15 | 0n43 | 23n53 | 0n24 | 21n19 | 0s43 | 22n16 | 0s19 | 7n15 | 0s39 | 14s34 | 0s26 | 21n55 | 0s52 | 0s40 | 1s10 | 13s19 | 9n20 | 1n 3 | |

Julian Day Number = 2334849.5, Delta T = 23.38 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'50, Lahiri = 19°23'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## AUGUST 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 41 38 | 9♌22'55 | 23♎14 | 27♌58 | 29♋28 | 0♋22 | 10♊29 | 15♋41 | 20°R 3 | 22°R 5 | 13♋45 | 1♎40 | 2♎53 | 16♏18 | 21°R22 | T 1 |
| F 2 | 20 45 34 | 10°20'24 | 5♏ 8 | 29°37 | 0♌42 | 1° 2 | 10°39 | 15°49 | 20♈ 2 | 22♒ 4 | 13°47 | 1°R41 | 2°50 | 16°25 | 21♈21 | F 2 |
| S 3 | 20 49 31 | 11°17'55 | 16°59 | 1♍14 | 1°56 | 1°42 | 10°49 | 15°56 | 20° 2 | 22° 2 | 13°48 | 1°41 | 2°47 | 16°31 | 21°21 | S 3 |
| S 4 | 20 53 28 | 12°15'26 | 28°51 | 2°50 | 3°10 | 2°21 | 10°59 | 16° 3 | 20° 2 | 22° 0 | 13°49 | 1°39 | 2°44 | 16°38 | 21°20 | S 4 |
| M 5 | 20 57 24 | 13°12'58 | 10♐51 | 4°24 | 4°24 | 3° 1 | 11° 9 | 16°11 | 20° 1 | 21°59 | 13°51 | 1°36 | 2°41 | 16°45 | 21°19 | M 5 |
| T 6 | 21 1 21 | 14°10'32 | 23° 1 | 5°56 | 5°38 | 3°40 | 11°19 | 16°18 | 20° 0 | 21°57 | 13°52 | 1°31 | 2°38 | 16°51 | 21°19 | T 6 |
| W 7 | 21 5 17 | 15° 8'06 | 5♑26 | 7°27 | 6°52 | 4°20 | 11°28 | 16°25 | 20° 0 | 21°55 | 13°54 | 1°24 | 2°34 | 16°58 | 21°18 | W 7 |
| T 8 | 21 9 14 | 16° 5'41 | 18° 8 | 8°57 | 8° 6 | 4°59 | 11°38 | 16°32 | 19°59 | 21°54 | 13°55 | 1°16 | 2°31 | 17° 5 | 21°17 | T 8 |
| F 9 | 21 13 10 | 17° 3'17 | 1♒ 7 | 10°25 | 9°20 | 5°38 | 11°47 | 16°39 | 19°59 | 21°52 | 13°56 | 1° 8 | 2°28 | 17°11 | 21°17 | F 9 |
| S 10 | 21 17 7 | 18° 0'55 | 14°24 | 11°51 | 10°34 | 6°18 | 11°56 | 16°46 | 19°58 | 21°51 | 13°58 | 1° 2 | 2°25 | 17°18 | 21°16 | S 10 |
| S 11 | 21 21 3 | 18°58'33 | 27°56 | 13°15 | 11°48 | 6°57 | 12° 5 | 16°54 | 19°57 | 21°49 | 13°59 | 0°56 | 2°22 | 17°25 | 21°15 | S 11 |
| M12 | 21 25 0 | 19°56'13 | 11♓42 | 14°38 | 13° 2 | 7°36 | 12°14 | 17° 1 | 19°56 | 21°47 | 14° 0 | 0°53 | 2°18 | 17°31 | 21°14 | M12 |
| T 13 | 21 28 57 | 20°53'55 | 25°38 | 15°59 | 14°16 | 8°15 | 12°23 | 17° 8 | 19°55 | 21°46 | 14° 2 | 0°D51 | 2°15 | 17°38 | 21°13 | T 13 |
| W14 | 21 32 53 | 21°51'38 | 9♈42 | 17°18 | 15°30 | 8°54 | 12°32 | 17°14 | 19°54 | 21°44 | 14° 3 | 0°51 | 2°12 | 17°45 | 21°12 | W14 |
| T 15 | 21 36 50 | 22°49'22 | 23°51 | 18°36 | 16°44 | 9°33 | 12°41 | 17°21 | 19°53 | 21°42 | 14° 4 | 0°53 | 2° 9 | 17°51 | 21°11 | T 15 |
| F 16 | 21 40 46 | 23°47'09 | 8♉ 2 | 19°51 | 17°59 | 10°12 | 12°49 | 17°28 | 19°52 | 21°41 | 14° 5 | 0°54 | 2° 6 | 17°58 | 21° 9 | F 16 |
| S 17 | 21 44 43 | 24°44'57 | 22°14 | 21° 5 | 19°13 | 10°50 | 12°57 | 17°35 | 19°51 | 21°39 | 14° 7 | 0°R55 | 2° 3 | 18° 5 | 21° 8 | S 17 |
| S 18 | 21 48 39 | 25°42'47 | 6♊24 | 22°17 | 20°27 | 11°29 | 13° 6 | 17°42 | 19°50 | 21°37 | 14° 8 | 0°54 | 1°59 | 18°11 | 21° 7 | S 18 |
| M19 | 21 52 36 | 26°40'38 | 20°31 | 23°27 | 21°41 | 12° 8 | 13°14 | 17°48 | 19°49 | 21°36 | 14° 9 | 0°52 | 1°56 | 18°18 | 21° 6 | M19 |
| T 20 | 21 56 32 | 27°38'32 | 4♋33 | 24°34 | 22°56 | 12°46 | 13°22 | 17°55 | 19°48 | 21°34 | 14°10 | 0°49 | 1°53 | 18°25 | 21° 4 | T 20 |
| W21 | 22 0 29 | 28°36'27 | 18°27 | 25°40 | 24°10 | 13°25 | 13°29 | 18° 2 | 19°47 | 21°33 | 14°11 | 0°45 | 1°50 | 18°32 | 21° 3 | W21 |
| T 22 | 22 4 26 | 29°34'24 | 2♌10 | 26°43 | 25°24 | 14° 3 | 13°37 | 18° 8 | 19°45 | 21°31 | 14°13 | 0°40 | 1°47 | 18°38 | 21° 1 | T 22 |
| F 23 | 22 8 22 | 0♍32'23 | 15°39 | 27°43 | 26°39 | 14°42 | 13°45 | 18°15 | 19°44 | 21°29 | 14°14 | 0°35 | 1°44 | 18°45 | 21° 0 | F 23 |
| S 24 | 22 12 19 | 1°30'23 | 28°54 | 28°41 | 27°53 | 15°20 | 13°52 | 18°21 | 19°43 | 21°28 | 14°15 | 0°31 | 1°40 | 18°52 | 20°58 | S 24 |
| S 25 | 22 16 15 | 2°28'25 | 11♍51 | 29°37 | 29° 7 | 15°58 | 13°59 | 18°28 | 19°41 | 21°26 | 14°16 | 0°29 | 1°37 | 18°58 | 20°57 | S 25 |
| M26 | 22 20 12 | 3°26'28 | 24°32 | 0♎29 | 0♍22 | 16°37 | 14° 6 | 18°34 | 19°40 | 21°24 | 14°17 | 0°D27 | 1°34 | 19° 5 | 20°55 | M26 |
| T 27 | 22 24 8 | 4°24'33 | 6♎57 | 1°18 | 1°36 | 17°15 | 14°13 | 18°40 | 19°38 | 21°23 | 14°18 | 0°27 | 1°31 | 19°12 | 20°53 | T 27 |
| W28 | 22 28 5 | 5°22'40 | 19° 9 | 2° 4 | 2°51 | 17°53 | 14°20 | 18°46 | 19°37 | 21°21 | 14°19 | 0°28 | 1°28 | 19°18 | 20°51 | W28 |
| T 29 | 22 32 1 | 6°20'48 | 1♏ 9 | 2°47 | 4° 5 | 18°31 | 14°27 | 18°52 | 19°35 | 21°20 | 14°20 | 0°30 | 1°24 | 19°25 | 20°50 | T 29 |
| F 30 | 22 35 58 | 7°18'57 | 13° 2 | 3°25 | 5°20 | 19° 9 | 14°33 | 18°59 | 19°34 | 21°18 | 14°21 | 0°32 | 1°21 | 19°32 | 20°48 | F 30 |
| S 31 | 22 39 55 | 8♍17'08 | 24♏53 | 4♎ 0 | 6♍34 | 19♋47 | 14♊40 | 19♋ 5 | 19♈32 | 21♒17 | 14♋22 | 0♎33 | 1♎18 | 19♏38 | 20♈46 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17n56 | 7s17 | 1n54 | 13n12 | 1n 4 | 21n 2 | 0n45 | 23n53 | 0n25 | 21n20 | 0s43 | 22n15 | 0s19 | 7n15 | 0s39 | 14s35 | 0s26 | 21n55 | 0s51 | 0s40 | 1s 9 | 13s21 | 9n19 | 1n 3 |
| F 2 | 17 41 | 10 35 | 2 50 | 12 31 | 0 58 | 20 48 | 0 47 | 23 54 | 0 25 | 21 22 | 0 43 | 22 14 | 0 18 | 7 15 | 0 39 | 14 35 | 0 26 | 21 55 | 0 51 | 0 40 | 1 8 | 13 22 | 9 19 | 1 3 |
| S 3 | 17 25 | 13 25 | 3 40 | 11 51 | 0 51 | 20 34 | 0 49 | 23 54 | 0 26 | 21 23 | 0 43 | 22 13 | 0 18 | 7 15 | 0 39 | 14 36 | 0 26 | 21 55 | 0 51 | 0 40 | 1 7 | 13 23 | 9 19 | 1 3 |
| S 4 | 17 9 | 15 43 | 4 19 | 11 10 | 0 44 | 20 19 | 0 51 | 23 54 | 0 27 | 21 25 | 0 43 | 22 13 | 0 18 | 7 15 | 0 39 | 14 36 | 0 26 | 21 55 | 0 51 | 0 40 | 1 5 | 13 25 | 9 19 | 1 3 |
| M 5 | 16 53 | 17 21 | 4 48 | 10 28 | 0 36 | 20 3 | 0 53 | 23 54 | 0 28 | 21 26 | 0 43 | 22 12 | 0 18 | 7 14 | 0 39 | 14 37 | 0 26 | 21 54 | 0 51 | 0 38 | 1 4 | 13 26 | 9 19 | 1 3 |
| T 6 | 16 36 | 18 13 | 5 5 | 9 47 | 0 29 | 19 47 | 0 55 | 23 54 | 0 28 | 21 27 | 0 43 | 22 11 | 0 18 | 7 14 | 0 39 | 14 37 | 0 26 | 21 54 | 0 51 | 0 36 | 1 3 | 13 27 | 9 18 | 1 3 |
| W 7 | 16 19 | 18 15 | 5 7 | 9 6 | 0 21 | 19 30 | 0 57 | 23 54 | 0 29 | 21 29 | 0 43 | 22 10 | 0 18 | 7 14 | 0 39 | 14 38 | 0 26 | 21 54 | 0 51 | 0 33 | 1 1 | 13 28 | 9 18 | 1 3 |
| T 8 | 16 2 | 17 22 | 4 55 | 8 25 | 0 12 | 19 13 | 0 58 | 23 53 | 0 30 | 21 30 | 0 43 | 22 9 | 0 18 | 7 14 | 0 39 | 14 38 | 0 26 | 21 54 | 0 51 | 0 30 | 1 0 | 13 30 | 9 18 | 1 3 |
| F 9 | 15 45 | 15 35 | 4 27 | 7 44 | 0 4 | 18 55 | 1 0 | 23 52 | 0 31 | 21 31 | 0 44 | 22 9 | 0 18 | 7 13 | 0 39 | 14 39 | 0 26 | 21 54 | 0 51 | 0 27 | 0 59 | 13 31 | 9 17 | 1 3 |
| S 10 | 15 27 | 12 57 | 3 45 | 7 4 | 0s 4 | 18 36 | 1 2 | 23 51 | 0 31 | 21 32 | 0 44 | 22 8 | 0 18 | 7 13 | 0 39 | 14 40 | 0 26 | 21 54 | 0 51 | 0 25 | 0 58 | 13 32 | 9 17 | 1 3 |
| S 11 | 15 10 | 9 34 | 2 49 | 6 23 | 0 13 | 18 17 | 1 3 | 23 50 | 0 32 | 21 33 | 0 44 | 22 7 | 0 18 | 7 13 | 0 39 | 14 40 | 0 26 | 21 54 | 0 51 | 0 22 | 0 56 | 13 33 | 9 17 | 1 3 |
| M12 | 14 51 | 5 37 | 1 42 | 5 43 | 0 22 | 17 58 | 1 5 | 23 48 | 0 33 | 21 35 | 0 44 | 22 6 | 0 18 | 7 12 | 0 39 | 14 41 | 0 26 | 21 54 | 0 51 | 0 21 | 0 55 | 13 35 | 9 16 | 1 3 |
| T 13 | 14 33 | 1 18 | 0 28 | 5 4 | 0 31 | 17 38 | 1 6 | 23 47 | 0 34 | 21 36 | 0 44 | 22 5 | 0 18 | 7 12 | 0 39 | 14 41 | 0 26 | 21 54 | 0 51 | 0 20 | 0 54 | 13 36 | 9 16 | 1 3 |
| W14 | 14 15 | 3n 7 | 0s48 | 4 24 | 0 40 | 17 18 | 1 8 | 23 45 | 0 34 | 21 37 | 0 44 | 22 4 | 0 18 | 7 12 | 0 39 | 14 42 | 0 26 | 21 54 | 0 51 | 0 20 | 0 53 | 13 37 | 9 15 | 1 3 |
| T 15 | 13 56 | 7 23 | 2 2 | 3 45 | 0 50 | 16 57 | 1 9 | 23 43 | 0 35 | 21 38 | 0 44 | 22 4 | 0 17 | 7 11 | 0 39 | 14 42 | 0 26 | 21 54 | 0 51 | 0 21 | 0 51 | 13 38 | 9 15 | 1 3 |
| F 16 | 13 37 | 11 14 | 3 9 | 3 7 | 0 59 | 16 35 | 1 11 | 23 41 | 0 36 | 21 39 | 0 44 | 22 3 | 0 17 | 7 11 | 0 39 | 14 43 | 0 26 | 21 53 | 0 51 | 0 21 | 0 50 | 13 40 | 9 14 | 1 3 |
| S 17 | 13 18 | 14 26 | 4 4 | 2 29 | 1 9 | 16 13 | 1 12 | 23 39 | 0 37 | 21 40 | 0 44 | 22 2 | 0 17 | 7 10 | 0 39 | 14 43 | 0 26 | 21 53 | 0 51 | 0 22 | 0 49 | 13 41 | 9 14 | 1 3 |
| S 18 | 12 58 | 16 45 | 4 44 | 1 52 | 1 18 | 15 51 | 1 13 | 23 36 | 0 37 | 21 41 | 0 44 | 22 1 | 0 17 | 7 10 | 0 39 | 14 44 | 0 26 | 21 53 | 0 51 | 0 22 | 0 48 | 13 42 | 9 13 | 1 3 |
| M19 | 12 39 | 18 2 | 5 7 | 1 16 | 1 28 | 15 28 | 1 14 | 23 33 | 0 38 | 21 42 | 0 44 | 22 0 | 0 17 | 7 10 | 0 39 | 14 44 | 0 26 | 21 53 | 0 51 | 0 21 | 0 46 | 13 43 | 9 13 | 1 3 |
| T 20 | 12 19 | 18 13 | 5 11 | 0 40 | 1 38 | 15 5 | 1 15 | 23 31 | 0 39 | 21 43 | 0 44 | 22 0 | 0 17 | 7 9 | 0 39 | 14 45 | 0 26 | 21 53 | 0 51 | 0 20 | 0 45 | 13 44 | 9 12 | 1 3 |
| W21 | 11 59 | 17 18 | 4 57 | 0 5 | 1 47 | 14 41 | 1 16 | 23 28 | 0 40 | 21 44 | 0 44 | 21 59 | 0 17 | 7 9 | 0 39 | 14 45 | 0 26 | 21 53 | 0 50 | 0 18 | 0 44 | 13 46 | 9 12 | 1 3 |
| T 22 | 11 38 | 15 23 | 4 26 | 0s29 | 1 57 | 14 17 | 1 17 | 23 24 | 0 40 | 21 45 | 0 44 | 21 58 | 0 17 | 7 8 | 0 39 | 14 46 | 0 26 | 21 53 | 0 50 | 0 16 | 0 43 | 13 47 | 9 11 | 1 3 |
| F 23 | 11 18 | 12 39 | 3 41 | 1 2 | 2 7 | 13 53 | 1 18 | 23 21 | 0 41 | 21 46 | 0 44 | 21 57 | 0 17 | 7 8 | 0 39 | 14 47 | 0 26 | 21 53 | 0 50 | 0 14 | 0 41 | 13 48 | 9 11 | 1 3 |
| S 24 | 10 57 | 9 18 | 2 44 | 1 34 | 2 16 | 13 28 | 1 19 | 23 17 | 0 42 | 21 47 | 0 44 | 21 56 | 0 17 | 7 7 | 0 39 | 14 47 | 0 26 | 21 53 | 0 50 | 0 12 | 0 40 | 13 49 | 9 10 | 1 3 |
| S 25 | 10 37 | 5 35 | 1 40 | 2 4 | 2 26 | 13 3 | 1 20 | 23 14 | 0 43 | 21 47 | 0 44 | 21 56 | 0 17 | 7 7 | 0 39 | 14 48 | 0 26 | 21 53 | 0 50 | 0 11 | 0 39 | 13 51 | 9 9 | 1 3 |
| M26 | 10 16 | 1 41 | 0 32 | 2 34 | 2 35 | 12 37 | 1 21 | 23 10 | 0 44 | 21 48 | 0 44 | 21 55 | 0 17 | 7 6 | 0 39 | 14 48 | 0 26 | 21 53 | 0 50 | 0 11 | 0 37 | 13 52 | 9 9 | 1 3 |
| T 27 | 9 55 | 2s13 | 0n36 | 3 2 | 2 44 | 12 11 | 1 21 | 23 6 | 0 44 | 21 49 | 0 44 | 21 54 | 0 17 | 7 5 | 0 39 | 14 49 | 0 26 | 21 53 | 0 50 | 0 11 | 0 36 | 13 53 | 9 8 | 1 3 |
| W28 | 9 33 | 5 57 | 1 41 | 3 28 | 2 53 | 11 45 | 1 22 | 23 2 | 0 45 | 21 50 | 0 44 | 21 53 | 0 17 | 7 5 | 0 39 | 14 49 | 0 26 | 21 53 | 0 50 | 0 11 | 0 35 | 13 54 | 9 7 | 1 3 |
| T 29 | 9 12 | 9 23 | 2 41 | 3 53 | 3 2 | 11 19 | 1 23 | 22 57 | 0 46 | 21 50 | 0 44 | 21 52 | 0 16 | 7 4 | 0 39 | 14 50 | 0 26 | 21 52 | 0 50 | 0 12 | 0 34 | 13 55 | 9 7 | 1 3 |
| F 30 | 8 50 | 12 23 | 3 34 | 4 17 | 3 11 | 10 52 | 1 23 | 22 53 | 0 47 | 21 51 | 0 44 | 21 52 | 0 16 | 7 4 | 0 39 | 14 50 | 0 26 | 21 52 | 0 50 | 0 13 | 0 32 | 13 57 | 9 6 | 1 3 |
| S 31 | 8n29 | 14s52 | 4n17 | 4s38 | 3s19 | 10n25 | 1n24 | 22n48 | 0n47 | 21n52 | 0s44 | 21n51 | 0s16 | 7n 3 | 0s39 | 14s51 | 0s26 | 21n52 | 0s50 | 0s13 | 0s31 | 13s58 | 9n 5 | 1n 3 |

Julian Day Number = 2334880.5, Delta T = 23.33 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'54, Lahiri = 19°23'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## SEPTEMBER 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 43 51 | 9♍15'21 | 6♐46 | 4♎30 | 7♍49 | 20♋24 | 14♊46 | 19♋11 | 19°R30 | 21°R15 | 14♋23 | 0°R34 | 1♎15 | 19♏45 | 20°R44 | S 1 |
| M 2 | 22 47 48 | 10°13'35 | 18°45 | 4°56 | 9° 3 | 21° 2 | 14°52 | 19°16 | 19♈29 | 21♒14 | 14°24 | 0♎33 | 1°12 | 19°52 | 20♈42 | M 2 |
| T 3 | 22 51 44 | 11°11'51 | 0♑56 | 5°17 | 10°18 | 21°40 | 14°58 | 19°22 | 19°27 | 21°12 | 14°25 | 0°32 | 1° 9 | 19°58 | 20°40 | T 3 |
| W 4 | 22 55 41 | 12°10'08 | 13°22 | 5°32 | 11°32 | 22°17 | 15° 3 | 19°28 | 19°25 | 21°11 | 14°26 | 0°30 | 1° 5 | 20° 5 | 20°38 | W 4 |
| T 5 | 22 59 37 | 13° 8'27 | 26° 8 | 5°43 | 12°47 | 22°55 | 15° 9 | 19°34 | 19°23 | 21° 9 | 14°27 | 0°28 | 1° 2 | 20°12 | 20°36 | T 5 |
| F 6 | 23 3 34 | 14° 6'47 | 9♒14 | 5°R47 | 14° 1 | 23°32 | 15°14 | 19°39 | 19°22 | 21° 8 | 14°28 | 0°26 | 0°59 | 20°19 | 20°34 | F 6 |
| S 7 | 23 7 30 | 15° 5'09 | 22°43 | 5°45 | 15°16 | 24° 9 | 15°19 | 19°45 | 19°20 | 21° 6 | 14°29 | 0°23 | 0°56 | 20°25 | 20°31 | S 7 |
| S 8 | 23 11 27 | 16° 3'33 | 6♓34 | 5°37 | 16°31 | 24°47 | 15°24 | 19°50 | 19°18 | 21° 5 | 14°30 | 0°22 | 0°53 | 20°32 | 20°29 | S 8 |
| M 9 | 23 15 24 | 17° 1'58 | 20°42 | 5°22 | 17°45 | 25°24 | 15°29 | 19°56 | 19°16 | 21° 3 | 14°31 | 0°21 | 0°50 | 20°39 | 20°27 | M 9 |
| T 10 | 23 19 20 | 18° 0'26 | 5♈ 4 | 5° 0 | 19° 0 | 26° 1 | 15°34 | 20° 1 | 19°14 | 21° 2 | 14°31 | 0°D21 | 0°46 | 20°45 | 20°25 | T 10 |
| W11 | 23 23 17 | 18°58'55 | 19°36 | 4°31 | 20°15 | 26°38 | 15°38 | 20° 6 | 19°12 | 21° 0 | 14°32 | 0°21 | 0°43 | 20°52 | 20°22 | W11 |
| T 12 | 23 27 13 | 19°57'27 | 4♉10 | 3°56 | 21°29 | 27°15 | 15°43 | 20°12 | 19°10 | 20°59 | 14°33 | 0°22 | 0°40 | 20°59 | 20°20 | T 12 |
| F 13 | 23 31 10 | 20°56'00 | 18°42 | 3°14 | 22°44 | 27°52 | 15°47 | 20°17 | 19° 8 | 20°58 | 14°34 | 0°23 | 0°37 | 21° 5 | 20°18 | F 13 |
| S 14 | 23 35 6 | 21°54'36 | 3♊ 7 | 2°25 | 23°59 | 28°29 | 15°51 | 20°22 | 19° 6 | 20°56 | 14°34 | 0°24 | 0°34 | 21°12 | 20°15 | S 14 |
| S 15 | 23 39 3 | 22°53'15 | 17°22 | 1°31 | 25°13 | 29° 5 | 15°55 | 20°27 | 19° 4 | 20°55 | 14°35 | 0°R24 | 0°30 | 21°19 | 20°13 | S 15 |
| M16 | 23 42 59 | 23°51'55 | 1♋24 | 0°33 | 26°28 | 29°42 | 15°58 | 20°32 | 19° 2 | 20°54 | 14°36 | 0°24 | 0°27 | 21°25 | 20°10 | M16 |
| T 17 | 23 46 56 | 24°50'38 | 15°12 | 29♍30 | 27°43 | 0♌18 | 16° 2 | 20°37 | 18°59 | 20°52 | 14°37 | 0°24 | 0°24 | 21°32 | 20° 8 | T 17 |
| W18 | 23 50 52 | 25°49'23 | 28°45 | 28°25 | 28°58 | 0°55 | 16° 5 | 20°41 | 18°57 | 20°51 | 14°37 | 0°23 | 0°21 | 21°39 | 20° 5 | W18 |
| T 19 | 23 54 49 | 26°48'11 | 12♌ 4 | 27°20 | 0♎12 | 1°31 | 16° 8 | 20°46 | 18°55 | 20°50 | 14°38 | 0°23 | 0°18 | 21°46 | 20° 3 | T 19 |
| F 20 | 23 58 46 | 27°47'00 | 25° 9 | 26°14 | 1°27 | 2° 8 | 16°11 | 20°50 | 18°53 | 20°49 | 14°38 | 0°22 | 0°15 | 21°52 | 20° 0 | F 20 |
| S 21 | 0 2 42 | 28°45'52 | 8♍ 0 | 25°11 | 2°42 | 2°44 | 16°14 | 20°55 | 18°51 | 20°47 | 14°39 | 0°22 | 0°11 | 21°59 | 19°58 | S 21 |
| S 22 | 0 6 39 | 29°44'45 | 20°37 | 24°12 | 3°57 | 3°20 | 16°16 | 20°59 | 18°48 | 20°46 | 14°40 | 0°22 | 0° 8 | 22° 6 | 19°55 | S 22 |
| M23 | 0 10 35 | 0♎43'41 | 3♎ 3 | 23°19 | 5°12 | 3°56 | 16°18 | 21° 4 | 18°46 | 20°45 | 14°40 | 0°22 | 0° 5 | 22°12 | 19°52 | M23 |
| T 24 | 0 14 32 | 1°42'39 | 15°17 | 22°33 | 6°26 | 4°32 | 16°20 | 21° 8 | 18°44 | 20°44 | 14°41 | 0°22 | 0° 2 | 22°19 | 19°50 | T 24 |
| W25 | 0 18 28 | 2°41'39 | 27°21 | 21°55 | 7°41 | 5° 8 | 16°22 | 21°12 | 18°41 | 20°43 | 14°41 | 0°22 | 29♍59 | 22°26 | 19°47 | W25 |
| T 26 | 0 22 25 | 3°40'41 | 9♏18 | 21°26 | 8°56 | 5°44 | 16°24 | 21°16 | 18°39 | 20°42 | 14°42 | 0°22 | 29°55 | 22°32 | 19°44 | T 26 |
| F 27 | 0 26 21 | 4°39'44 | 21°10 | 21° 7 | 10°11 | 6°20 | 16°25 | 21°20 | 18°37 | 20°40 | 14°42 | 0°21 | 29°52 | 22°39 | 19°41 | F 27 |
| S 28 | 0 30 18 | 5°38'50 | 3♐ 0 | 20°D58 | 11°26 | 6°55 | 16°27 | 21°24 | 18°34 | 20°39 | 14°42 | 0°20 | 29°49 | 22°46 | 19°39 | S 28 |
| S 29 | 0 34 15 | 6°37'57 | 14°51 | 21° 0 | 12°41 | 7°31 | 16°28 | 21°28 | 18°32 | 20°38 | 14°43 | 0°20 | 29°46 | 22°52 | 19°36 | S 29 |
| M30 | 0 38 11 | 7♎37'06 | 26♐49 | 21♍12 | 13♎56 | 8♌ 6 | 16♊29 | 21♋31 | 18♈30 | 20♒37 | 14♋43 | 0♎19 | 29♍43 | 22♏59 | 19♈33 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n 7 | 16s44 | 4n49 | 4s57 | 3s27 | 9n57 | 1n24 | 22n43 | 0n48 | 21n52 | 0s44 | 21n50 | 0s16 | 7n 2 | 0s39 | 14s51 | 0s26 | 21n52 | 0s50 | 0s13 | 0s30 | 13s59 | 9n 4 | 1n 3 |
| M 2 | 7 45 | 17 52 | 5 9 | 5 14 | 3 34 | 9 29 | 1 24 | 22 38 | 0 49 | 21 53 | 0 44 | 21 49 | 0 16 | 7 2 | 0 39 | 14 52 | 0 26 | 21 52 | 0 50 | 0 13 | 0 29 | 14 0 | 9 4 | 1 2 |
| T 3 | 7 23 | 18 13 | 5 16 | 5 29 | 3 41 | 9 1 | 1 24 | 22 33 | 0 50 | 21 54 | 0 44 | 21 49 | 0 16 | 7 1 | 0 39 | 14 52 | 0 26 | 21 52 | 0 50 | 0 13 | 0 27 | 14 2 | 9 3 | 1 2 |
| W 4 | 7 0 | 17 42 | 5 8 | 5 41 | 3 47 | 8 33 | 1 25 | 22 28 | 0 51 | 21 54 | 0 44 | 21 48 | 0 16 | 7 0 | 0 39 | 14 53 | 0 26 | 21 52 | 0 50 | 0 12 | 0 26 | 14 3 | 9 2 | 1 2 |
| T 5 | 6 38 | 16 18 | 4 45 | 5 50 | 3 53 | 8 5 | 1 25 | 22 22 | 0 51 | 21 55 | 0 44 | 21 47 | 0 16 | 7 0 | 0 39 | 14 53 | 0 26 | 21 52 | 0 50 | 0 11 | 0 25 | 14 4 | 9 1 | 1 2 |
| F 6 | 6 16 | 14 1 | 4 6 | 5 56 | 3 58 | 7 36 | 1 25 | 22 17 | 0 52 | 21 55 | 0 44 | 21 46 | 0 16 | 6 59 | 0 39 | 14 54 | 0 26 | 21 52 | 0 50 | 0 10 | 0 24 | 14 5 | 9 0 | 1 2 |
| S 7 | 5 53 | 10 55 | 3 13 | 5 59 | 4 2 | 7 7 | 1 25 | 22 11 | 0 53 | 21 56 | 0 44 | 21 46 | 0 16 | 6 58 | 0 39 | 14 54 | 0 26 | 21 52 | 0 50 | 0 9 | 0 22 | 14 6 | 8 59 | 1 2 |
| S 8 | 5 30 | 7 8 | 2 8 | 5 58 | 4 4 | 6 38 | 1 25 | 22 5 | 0 54 | 21 57 | 0 44 | 21 45 | 0 16 | 6 57 | 0 39 | 14 55 | 0 26 | 21 52 | 0 50 | 0 9 | 0 21 | 14 7 | 8 59 | 1 2 |
| M 9 | 5 8 | 2 53 | 0 53 | 5 54 | 4 6 | 6 9 | 1 25 | 21 59 | 0 54 | 21 57 | 0 44 | 21 44 | 0 16 | 6 57 | 0 39 | 14 55 | 0 26 | 21 52 | 0 50 | 0 8 | 0 20 | 14 9 | 8 58 | 1 2 |
| T 10 | 4 45 | 1n37 | 0s26 | 5 45 | 4 6 | 5 39 | 1 24 | 21 53 | 0 55 | 21 57 | 0 44 | 21 43 | 0 16 | 6 56 | 0 39 | 14 56 | 0 26 | 21 52 | 0 50 | 0 8 | 0 18 | 14 10 | 8 57 | 1 2 |
| W11 | 4 22 | 6 4 | 1 45 | 5 33 | 4 5 | 5 10 | 1 24 | 21 47 | 0 56 | 21 58 | 0 45 | 21 43 | 0 16 | 6 55 | 0 39 | 14 56 | 0 26 | 21 52 | 0 50 | 0 9 | 0 17 | 14 11 | 8 56 | 1 2 |
| T 12 | 3 59 | 10 9 | 2 57 | 5 16 | 4 2 | 4 40 | 1 24 | 21 40 | 0 57 | 21 58 | 0 45 | 21 42 | 0 16 | 6 54 | 0 39 | 14 56 | 0 26 | 21 52 | 0 50 | 0 9 | 0 16 | 14 12 | 8 55 | 1 2 |
| F 13 | 3 36 | 13 37 | 3 57 | 4 55 | 3 58 | 4 10 | 1 23 | 21 34 | 0 58 | 21 59 | 0 45 | 21 41 | 0 15 | 6 54 | 0 40 | 14 57 | 0 26 | 21 52 | 0 49 | 0 9 | 0 15 | 14 13 | 8 54 | 1 2 |
| S 14 | 3 13 | 16 12 | 4 42 | 4 30 | 3 52 | 3 40 | 1 23 | 21 27 | 0 58 | 21 59 | 0 45 | 21 41 | 0 15 | 6 53 | 0 40 | 14 57 | 0 26 | 21 52 | 0 49 | 0 9 | 0 13 | 14 15 | 8 53 | 1 2 |
| S 15 | 2 50 | 17 45 | 5 9 | 4 1 | 3 44 | 3 10 | 1 22 | 21 20 | 0 59 | 21 59 | 0 45 | 21 40 | 0 15 | 6 52 | 0 40 | 14 58 | 0 26 | 21 52 | 0 49 | 0 10 | 0 12 | 14 16 | 8 52 | 1 2 |
| M16 | 2 26 | 18 11 | 5 17 | 3 29 | 3 33 | 2 39 | 1 22 | 21 14 | 1 0 | 22 0 | 0 45 | 21 39 | 0 15 | 6 51 | 0 40 | 14 58 | 0 26 | 21 52 | 0 49 | 0 10 | 0 11 | 14 17 | 8 51 | 1 2 |
| T 17 | 2 3 | 17 32 | 5 7 | 2 53 | 3 21 | 2 9 | 1 21 | 21 6 | 1 1 | 22 0 | 0 45 | 21 39 | 0 15 | 6 50 | 0 40 | 14 59 | 0 26 | 21 52 | 0 49 | 0 9 | 0 10 | 14 18 | 8 50 | 1 2 |
| W18 | 1 40 | 15 53 | 4 39 | 2 14 | 3 7 | 1 39 | 1 20 | 20 59 | 1 2 | 22 0 | 0 45 | 21 38 | 0 15 | 6 50 | 0 40 | 14 59 | 0 26 | 21 52 | 0 49 | 0 9 | 0 8 | 14 19 | 8 49 | 1 2 |
| T 19 | 1 16 | 13 24 | 3 57 | 1 34 | 2 52 | 1 8 | 1 20 | 20 52 | 1 2 | 22 1 | 0 45 | 21 37 | 0 15 | 6 49 | 0 40 | 14 59 | 0 26 | 21 51 | 0 49 | 0 9 | 0 7 | 14 20 | 8 48 | 1 2 |
| F 20 | 0 53 | 10 17 | 3 3 | 0 52 | 2 35 | 0 37 | 1 19 | 20 45 | 1 3 | 22 1 | 0 45 | 21 37 | 0 15 | 6 48 | 0 40 | 15 0 | 0 26 | 21 51 | 0 49 | 0 9 | 0 6 | 14 22 | 8 47 | 1 2 |
| S 21 | 0 30 | 6 43 | 2 1 | 0 10 | 2 16 | 0 7 | 1 18 | 20 37 | 1 4 | 22 1 | 0 45 | 21 36 | 0 15 | 6 47 | 0 40 | 15 0 | 0 26 | 21 51 | 0 49 | 0 9 | 0 5 | 14 23 | 8 46 | 1 2 |
| S 22 | 0 6 | 2 54 | 0 54 | 0n31 | 1 57 | 0s24 | 1 17 | 20 30 | 1 5 | 22 1 | 0 45 | 21 36 | 0 15 | 6 46 | 0 40 | 15 1 | 0 26 | 21 51 | 0 49 | 0 9 | 0 3 | 14 24 | 8 45 | 1 1 |
| M23 | 0s17 | 0s59 | 0n15 | 1 10 | 1 37 | 0 54 | 1 16 | 20 22 | 1 6 | 22 2 | 0 45 | 21 35 | 0 15 | 6 45 | 0 40 | 15 1 | 0 26 | 21 51 | 0 49 | 0 9 | 0 2 | 14 25 | 8 44 | 1 1 |
| T 24 | 0 41 | 4 46 | 1 22 | 1 47 | 1 17 | 1 25 | 1 15 | 20 14 | 1 7 | 22 2 | 0 45 | 21 34 | 0 15 | 6 44 | 0 40 | 15 1 | 0 26 | 21 51 | 0 49 | 0 9 | 0 1 | 14 26 | 8 43 | 1 1 |
| W25 | 1 4 | 8 18 | 2 24 | 2 21 | 0 56 | 1 56 | 1 14 | 20 6 | 1 7 | 22 2 | 0 45 | 21 34 | 0 15 | 6 43 | 0 40 | 15 2 | 0 26 | 21 51 | 0 49 | 0 9 | 0n 1 | 14 27 | 8 42 | 1 1 |
| T 26 | 1 28 | 11 28 | 3 20 | 2 51 | 0 36 | 2 26 | 1 12 | 19 58 | 1 8 | 22 2 | 0 45 | 21 33 | 0 15 | 6 43 | 0 40 | 15 2 | 0 26 | 21 51 | 0 49 | 0 9 | 0 2 | 14 29 | 8 41 | 1 1 |
| F 27 | 1 51 | 14 7 | 4 6 | 3 16 | 0 17 | 2 57 | 1 11 | 19 50 | 1 9 | 22 2 | 0 45 | 21 33 | 0 14 | 6 42 | 0 40 | 15 2 | 0 26 | 21 51 | 0 49 | 0 8 | 0 3 | 14 30 | 8 39 | 1 1 |
| S 28 | 2 15 | 16 11 | 4 42 | 3 36 | 0n 1 | 3 28 | 1 10 | 19 42 | 1 10 | 22 2 | 0 45 | 21 32 | 0 14 | 6 41 | 0 40 | 15 3 | 0 26 | 21 51 | 0 49 | 0 8 | 0 4 | 14 31 | 8 38 | 1 1 |
| S 29 | 2 38 | 17 33 | 5 6 | 3 51 | 0 18 | 3 58 | 1 8 | 19 34 | 1 11 | 22 2 | 0 45 | 21 32 | 0 14 | 6 40 | 0 40 | 15 3 | 0 26 | 21 51 | 0 49 | 0 8 | 0 6 | 14 32 | 8 37 | 1 1 |
| M30 | 3s 2 | 18s10 | 5n17 | 4n 1 | 0n34 | 4s28 | 1n 7 | 19n25 | 1n12 | 22n 3 | 0s45 | 21n31 | 0s14 | 6n39 | 0s40 | 15s 3 | 0s26 | 21n51 | 0s49 | 0s 8 | 0n 7 | 14s33 | 8n36 | 1n 1 |

Julian Day Number = 2334911.5, Delta T = 23.28 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'58, Lahiri = 19°23'59Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## OCTOBER 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 42 8 | 8♎36'18 | 8♉57 | 21♍35 | 15♎11 | 8♌42 | 16♊30 | 21♋35 | 18°R27 | 20°R36 | 14♋44 | 0°D19 | 29♍40 | 23♏ 6 | 19°R30 | T 1 |
| W 2 | 0 46 4 | 9°35'30 | 21°20 | 22° 7 | 16°25 | 9°17 | 16°30 | 21°38 | 18♈25 | 20♒35 | 14°44 | 0♎19 | 29°36 | 23°13 | 19♈28 | W 2 |
| T 3 | 0 50 1 | 10°34'45 | 4♒ 2 | 22°48 | 17°40 | 9°52 | 16°30 | 21°42 | 18°22 | 20°35 | 14°44 | 0°20 | 29°33 | 23°19 | 19°25 | T 3 |
| F 4 | 0 53 57 | 11°34'01 | 17° 7 | 23°38 | 18°55 | 10°27 | 16°R30 | 21°45 | 18°20 | 20°34 | 14°44 | 0°21 | 29°30 | 23°26 | 19°22 | F 4 |
| S 5 | 0 57 54 | 12°33'20 | 0♓38 | 24°36 | 20°10 | 11° 2 | 16°30 | 21°48 | 18°18 | 20°33 | 14°45 | 0°22 | 29°27 | 23°33 | 19°19 | S 5 |
| S 6 | 1 1 50 | 13°32'40 | 14°34 | 25°41 | 21°25 | 11°37 | 16°30 | 21°51 | 18°15 | 20°32 | 14°45 | 0°23 | 29°24 | 23°39 | 19°16 | S 6 |
| M 7 | 1 5 47 | 14°32'01 | 28°55 | 26°51 | 22°40 | 12°12 | 16°30 | 21°54 | 18°13 | 20°31 | 14°45 | 0°R23 | 29°21 | 23°46 | 19°13 | M 7 |
| T 8 | 1 9 43 | 15°31'25 | 13♈36 | 28° 8 | 23°55 | 12°46 | 16°29 | 21°57 | 18°10 | 20°30 | 14°45 | 0°23 | 29°17 | 23°53 | 19°11 | T 8 |
| W 9 | 1 13 40 | 16°30'51 | 28°31 | 29°29 | 25°10 | 13°21 | 16°28 | 22° 0 | 18° 8 | 20°30 | 14°45 | 0°22 | 29°14 | 23°59 | 19° 8 | W 9 |
| T 10 | 1 17 37 | 17°30'19 | 13♉32 | 0♎54 | 26°25 | 13°55 | 16°27 | 22° 3 | 18° 5 | 20°29 | 14°46 | 0°20 | 29°11 | 24° 6 | 19° 5 | T 10 |
| F 11 | 1 21 33 | 18°29'49 | 28°30 | 2°22 | 27°40 | 14°30 | 16°26 | 22° 5 | 18° 3 | 20°28 | 14°46 | 0°18 | 29° 8 | 24°13 | 19° 2 | F 11 |
| S 12 | 1 25 30 | 19°29'22 | 13♊16 | 3°54 | 28°55 | 15° 4 | 16°24 | 22° 8 | 18° 1 | 20°28 | 14°46 | 0°15 | 29° 5 | 24°19 | 18°59 | S 12 |
| S 13 | 1 29 26 | 20°28'57 | 27°46 | 5°27 | 0♏ 9 | 15°38 | 16°22 | 22°10 | 17°58 | 20°27 | 14°46 | 0°13 | 29° 1 | 24°26 | 18°56 | S 13 |
| M14 | 1 33 23 | 21°28'34 | 11♋54 | 7° 3 | 1°24 | 16°12 | 16°21 | 22°12 | 17°56 | 20°26 | 14°46 | 0°12 | 28°58 | 24°33 | 18°53 | M14 |
| T 15 | 1 37 19 | 22°28'14 | 25°40 | 8°40 | 2°39 | 16°46 | 16°18 | 22°15 | 17°53 | 20°26 | 14°R46 | 0°D12 | 28°55 | 24°40 | 18°50 | T 15 |
| W16 | 1 41 16 | 23°27'56 | 9♌ 4 | 10°19 | 3°54 | 17°20 | 16°16 | 22°17 | 17°51 | 20°25 | 14°46 | 0°13 | 28°52 | 24°46 | 18°48 | W16 |
| T 17 | 1 45 12 | 24°27'40 | 22° 8 | 11°58 | 5° 9 | 17°54 | 16°14 | 22°19 | 17°48 | 20°25 | 14°46 | 0°14 | 28°49 | 24°53 | 18°45 | T 17 |
| F 18 | 1 49 9 | 25°27'26 | 4♍55 | 13°38 | 6°24 | 18°27 | 16°11 | 22°20 | 17°46 | 20°24 | 14°46 | 0°16 | 28°46 | 25° 0 | 18°42 | F 18 |
| S 19 | 1 53 6 | 26°27'15 | 17°27 | 15°18 | 7°39 | 19° 1 | 16° 8 | 22°22 | 17°44 | 20°24 | 14°46 | 0°17 | 28°42 | 25° 6 | 18°39 | S 19 |
| S 20 | 1 57 2 | 27°27'05 | 29°47 | 16°59 | 8°54 | 19°34 | 16° 5 | 22°24 | 17°41 | 20°23 | 14°46 | 0°R18 | 28°39 | 25°13 | 18°36 | S 20 |
| M21 | 2 0 59 | 28°26'58 | 11♎57 | 18°40 | 10° 9 | 20° 7 | 16° 2 | 22°25 | 17°39 | 20°23 | 14°45 | 0°17 | 28°36 | 25°20 | 18°33 | M21 |
| T 22 | 2 4 55 | 29°26'53 | 24° 0 | 20°21 | 11°24 | 20°41 | 15°58 | 22°27 | 17°36 | 20°23 | 14°45 | 0°15 | 28°33 | 25°26 | 18°31 | T 22 |
| W23 | 2 8 52 | 0♏26'50 | 5♏57 | 22° 2 | 12°39 | 21°14 | 15°55 | 22°28 | 17°34 | 20°22 | 14°45 | 0°11 | 28°30 | 25°33 | 18°28 | W23 |
| T 24 | 2 12 48 | 1°26'48 | 17°50 | 23°42 | 13°54 | 21°46 | 15°51 | 22°29 | 17°32 | 20°22 | 14°45 | 0° 6 | 28°26 | 25°40 | 18°25 | T 24 |
| F 25 | 2 16 45 | 2°26'49 | 29°40 | 25°23 | 15° 9 | 22°19 | 15°47 | 22°30 | 17°29 | 20°22 | 14°45 | 0° 0 | 28°23 | 25°47 | 18°22 | F 25 |
| S 26 | 2 20 41 | 3°26'51 | 11♐30 | 27° 3 | 16°24 | 22°52 | 15°43 | 22°31 | 17°27 | 20°22 | 14°44 | 29♍54 | 28°20 | 25°53 | 18°19 | S 26 |
| S 27 | 2 24 38 | 4°26'56 | 23°23 | 28°43 | 17°39 | 23°24 | 15°38 | 22°32 | 17°25 | 20°21 | 14°44 | 29°48 | 28°17 | 26° 0 | 18°17 | S 27 |
| M28 | 2 28 35 | 5°27'01 | 5♑20 | 0♏22 | 18°54 | 23°57 | 15°34 | 22°33 | 17°22 | 20°21 | 14°44 | 29°43 | 28°14 | 26° 7 | 18°14 | M28 |
| T 29 | 2 32 31 | 6°27'09 | 17°27 | 2° 1 | 20° 9 | 24°29 | 15°29 | 22°33 | 17°20 | 20°21 | 14°43 | 29°39 | 28°11 | 26°13 | 18°11 | T 29 |
| W30 | 2 36 28 | 7°27'18 | 29°46 | 3°40 | 21°24 | 25° 1 | 15°24 | 22°34 | 17°18 | 20°21 | 14°43 | 29°38 | 28° 7 | 26°20 | 18° 9 | W30 |
| T 31 | 2 40 24 | 8♏27'29 | 12♒21 | 5♏18 | 22♏39 | 25♌33 | 15♊19 | 22♋34 | 17♈16 | 20♒21 | 14♋43 | 29°D37 | 28♍ 4 | 26♏27 | 18♈ 6 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s25 | 17s58 | 5n14 | 4n 6 | 0n49 | 4s59 | 1n 6 | 19n17 | 1n12 | 22n 3 | 0s45 | 21n31 | 0s14 | 6n38 | 0s40 | 15s 4 | 0s26 | 21n51 | 0s49 | 0s 8 | 0n 8 | 14s34 | 8n35 | 1n 1 |
| W 2 | 3 48 | 16 54 | 4 56 | 4 5 | 1 2 | 5 29 | 1 4 | 19 8 | 1 13 | 22 3 | 0 45 | 21 30 | 0 14 | 6 37 | 0 40 | 15 4 | 0 26 | 21 51 | 0 49 | 0 8 | 0 9 | 14 35 | 8 34 | 1 1 |
| T 3 | 4 12 | 15 0 | 4 24 | 4 0 | 1 14 | 5 59 | 1 2 | 19 0 | 1 14 | 22 3 | 0 45 | 21 30 | 0 14 | 6 36 | 0 40 | 15 4 | 0 26 | 21 51 | 0 49 | 0 8 | 0 11 | 14 37 | 8 33 | 1 1 |
| F 4 | 4 35 | 12 16 | 3 37 | 3 49 | 1 24 | 6 29 | 1 1 | 18 51 | 1 15 | 22 3 | 0 45 | 21 29 | 0 14 | 6 35 | 0 40 | 15 5 | 0 26 | 21 51 | 0 49 | 0 8 | 0 12 | 14 38 | 8 32 | 1 1 |
| S 5 | 4 58 | 8 49 | 2 38 | 3 35 | 1 33 | 6 59 | 0 59 | 18 42 | 1 16 | 22 3 | 0 45 | 21 29 | 0 14 | 6 34 | 0 40 | 15 5 | 0 26 | 21 51 | 0 49 | 0 9 | 0 13 | 14 39 | 8 30 | 1 1 |
| S 6 | 5 21 | 4 45 | 1 27 | 3 16 | 1 41 | 7 29 | 0 57 | 18 33 | 1 17 | 22 2 | 0 45 | 21 28 | 0 14 | 6 34 | 0 40 | 15 5 | 0 26 | 21 51 | 0 49 | 0 9 | 0 14 | 14 40 | 8 29 | 1 1 |
| M 7 | 5 44 | 0 18 | 0 8 | 2 53 | 1 47 | 7 58 | 0 56 | 18 25 | 1 18 | 22 2 | 0 45 | 21 28 | 0 14 | 6 33 | 0 40 | 15 5 | 0 26 | 21 51 | 0 48 | 0 9 | 0 16 | 14 41 | 8 28 | 1 0 |
| T 8 | 6 7 | 4n16 | 1s13 | 2 27 | 1 52 | 8 28 | 0 54 | 18 16 | 1 18 | 22 2 | 0 45 | 21 28 | 0 14 | 6 32 | 0 40 | 15 6 | 0 26 | 21 51 | 0 48 | 0 9 | 0 17 | 14 42 | 8 27 | 1 0 |
| W 9 | 6 30 | 8 38 | 2 29 | 1 59 | 1 56 | 8 57 | 0 52 | 18 6 | 1 19 | 22 2 | 0 45 | 21 27 | 0 14 | 6 31 | 0 40 | 15 6 | 0 26 | 21 51 | 0 48 | 0 9 | 0 18 | 14 43 | 8 26 | 1 0 |
| T 10 | 6 53 | 12 29 | 3 36 | 1 27 | 1 58 | 9 26 | 0 50 | 17 57 | 1 20 | 22 2 | 0 45 | 21 27 | 0 14 | 6 30 | 0 40 | 15 6 | 0 26 | 21 52 | 0 48 | 0 8 | 0 20 | 14 44 | 8 25 | 1 0 |
| F 11 | 7 16 | 15 30 | 4 28 | 0 53 | 2 0 | 9 55 | 0 48 | 17 48 | 1 21 | 22 2 | 0 45 | 21 27 | 0 13 | 6 29 | 0 40 | 15 6 | 0 26 | 21 52 | 0 48 | 0 7 | 0 21 | 14 46 | 8 23 | 1 0 |
| S 12 | 7 38 | 17 26 | 5 2 | 0 18 | 2 1 | 10 23 | 0 46 | 17 39 | 1 22 | 22 2 | 0 45 | 21 26 | 0 13 | 6 28 | 0 40 | 15 6 | 0 26 | 21 52 | 0 48 | 0 6 | 0 22 | 14 47 | 8 22 | 1 0 |
| S 13 | 8 1 | 18 12 | 5 15 | 0s20 | 2 0 | 10 51 | 0 44 | 17 30 | 1 23 | 22 2 | 0 45 | 21 26 | 0 13 | 6 27 | 0 40 | 15 7 | 0 26 | 21 52 | 0 48 | 0 5 | 0 23 | 14 48 | 8 21 | 1 0 |
| M14 | 8 23 | 17 49 | 5 9 | 0 58 | 2 0 | 11 20 | 0 42 | 17 20 | 1 24 | 22 1 | 0 45 | 21 26 | 0 13 | 6 26 | 0 40 | 15 7 | 0 26 | 21 52 | 0 48 | 0 5 | 0 25 | 14 49 | 8 20 | 1 0 |
| T 15 | 8 46 | 16 23 | 4 45 | 1 38 | 1 58 | 11 47 | 0 40 | 17 11 | 1 25 | 22 1 | 0 45 | 21 25 | 0 13 | 6 25 | 0 40 | 15 7 | 0 26 | 21 52 | 0 48 | 0 5 | 0 26 | 14 50 | 8 19 | 1 0 |
| W16 | 9 8 | 14 4 | 4 6 | 2 19 | 1 56 | 12 15 | 0 38 | 17 1 | 1 26 | 22 1 | 0 45 | 21 25 | 0 13 | 6 24 | 0 40 | 15 7 | 0 26 | 21 52 | 0 48 | 0 5 | 0 27 | 14 51 | 8 18 | 1 0 |
| T 17 | 9 30 | 11 5 | 3 15 | 3 1 | 1 53 | 12 42 | 0 36 | 16 52 | 1 26 | 22 1 | 0 45 | 21 25 | 0 13 | 6 23 | 0 40 | 15 7 | 0 26 | 21 52 | 0 48 | 0 6 | 0 28 | 14 52 | 8 16 | 1 0 |
| F 18 | 9 52 | 7 38 | 2 15 | 3 43 | 1 49 | 13 9 | 0 33 | 16 42 | 1 27 | 22 0 | 0 45 | 21 25 | 0 13 | 6 22 | 0 40 | 15 7 | 0 26 | 21 52 | 0 48 | 0 6 | 0 30 | 14 53 | 8 15 | 1 0 |
| S 19 | 10 13 | 3 54 | 1 10 | 4 25 | 1 45 | 13 36 | 0 31 | 16 33 | 1 28 | 22 0 | 0 45 | 21 24 | 0 13 | 6 22 | 0 40 | 15 8 | 0 26 | 21 52 | 0 48 | 0 7 | 0 31 | 14 54 | 8 14 | 0 59 |
| S 20 | 10 35 | 0 3 | 0 3 | 5 8 | 1 41 | 14 2 | 0 29 | 16 23 | 1 29 | 22 0 | 0 45 | 21 24 | 0 13 | 6 21 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 7 | 0 32 | 14 56 | 8 13 | 0 59 |
| M21 | 10 56 | 3s45 | 1n 4 | 5 51 | 1 36 | 14 28 | 0 27 | 16 13 | 1 30 | 21 59 | 0 45 | 21 24 | 0 13 | 6 20 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 7 | 0 33 | 14 57 | 8 12 | 0 59 |
| T 22 | 11 18 | 7 22 | 2 6 | 6 33 | 1 31 | 14 53 | 0 24 | 16 4 | 1 31 | 21 59 | 0 45 | 21 24 | 0 13 | 6 19 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 6 | 0 35 | 14 58 | 8 11 | 0 59 |
| W23 | 11 39 | 10 39 | 3 3 | 7 16 | 1 26 | 15 19 | 0 22 | 15 54 | 1 32 | 21 59 | 0 45 | 21 24 | 0 13 | 6 18 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 4 | 0 36 | 14 59 | 8 9 | 0 59 |
| T 24 | 12 0 | 13 28 | 3 51 | 7 58 | 1 20 | 15 44 | 0 20 | 15 44 | 1 33 | 21 58 | 0 45 | 21 24 | 0 12 | 6 17 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 2 | 0 37 | 15 0 | 8 8 | 0 59 |
| F 25 | 12 21 | 15 44 | 4 29 | 8 40 | 1 15 | 16 8 | 0 17 | 15 34 | 1 34 | 21 58 | 0 45 | 21 24 | 0 12 | 6 16 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 0 | 0 39 | 15 1 | 8 7 | 0 59 |
| S 26 | 12 41 | 17 19 | 4 55 | 9 22 | 1 9 | 16 32 | 0 15 | 15 25 | 1 35 | 21 57 | 0 45 | 21 23 | 0 12 | 6 15 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0n 2 | 0 40 | 15 2 | 8 6 | 0 59 |
| S 27 | 13 1 | 18 10 | 5 9 | 10 4 | 1 2 | 16 56 | 0 12 | 15 15 | 1 36 | 21 57 | 0 45 | 21 23 | 0 12 | 6 14 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 5 | 0 41 | 15 3 | 8 5 | 0 59 |
| M28 | 13 22 | 18 13 | 5 10 | 10 45 | 0 56 | 17 19 | 0 10 | 15 5 | 1 37 | 21 57 | 0 45 | 21 23 | 0 12 | 6 14 | 0 39 | 15 8 | 0 26 | 21 52 | 0 48 | 0 7 | 0 42 | 15 4 | 8 4 | 0 59 |
| T 29 | 13 42 | 17 26 | 4 56 | 11 25 | 0 50 | 17 41 | 0 7 | 14 55 | 1 38 | 21 56 | 0 45 | 21 23 | 0 12 | 6 13 | 0 39 | 15 8 | 0 26 | 21 53 | 0 48 | 0 8 | 0 44 | 15 5 | 8 3 | 0 58 |
| W30 | 14 1 | 15 51 | 4 29 | 12 5 | 0 43 | 18 4 | 0 5 | 14 45 | 1 39 | 21 56 | 0 45 | 21 23 | 0 12 | 6 12 | 0 39 | 15 8 | 0 26 | 21 53 | 0 48 | 0 9 | 0 45 | 15 6 | 8 2 | 0 58 |
| T 31 | 14s21 | 13s27 | 3n49 | 12s44 | 0n37 | 18s25 | 0n 3 | 14n35 | 1n40 | 21n55 | 0s45 | 21n23 | 0s12 | 6n11 | 0s39 | 15s 8 | 0s26 | 21n53 | 0s47 | 0n 9 | 0n46 | 15s 7 | 8n 0 | 0n58 |

Julian Day Number = 2334941.5, Delta T = 23.23 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'02, Lahiri = 19°24'03Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## NOVEMBER 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 44 21 | 9♏27'41 | 25♒19 | 6♏56 | 23♏54 | 26♌ 5 | 15°R14 | 22♋35 | 17°R13 | 20°D21 | 14°R42 | 29♍38 | 28♍ 1 | 26♏33 | 18°R 3 | F 1 |
| S 2 | 2 48 17 | 10°27'54 | 8♓41 | 8°34 | 25° 9 | 26°36 | 15♊ 8 | 22°35 | 17♈11 | 20♒21 | 14♋42 | 29°40 | 27°58 | 26°40 | 18♈ 1 | S 2 |
| S 3 | 2 52 14 | 11°28'09 | 22°31 | 10°11 | 26°24 | 27° 8 | 15° 3 | 22°R35 | 17° 9 | 20°21 | 14°41 | 29°R41 | 27°55 | 26°47 | 17°58 | S 3 |
| M 4 | 2 56 10 | 12°28'26 | 6♈49 | 11°48 | 27°39 | 27°39 | 14°57 | 22°35 | 17° 7 | 20°21 | 14°41 | 29°41 | 27°52 | 26°54 | 17°56 | M 4 |
| T 5 | 3 0 7 | 13°28'44 | 21°33 | 13°24 | 28°54 | 28°10 | 14°51 | 22°35 | 17° 5 | 20°21 | 14°40 | 29°39 | 27°48 | 27° 0 | 17°53 | T 5 |
| W 6 | 3 4 4 | 14°29'04 | 6♉38 | 15° 0 | 0♐ 9 | 28°41 | 14°45 | 22°34 | 17° 3 | 20°22 | 14°40 | 29°35 | 27°45 | 27° 7 | 17°51 | W 6 |
| T 7 | 3 8 0 | 15°29'25 | 21°55 | 16°36 | 1°24 | 29°12 | 14°39 | 22°34 | 17° 1 | 20°22 | 14°39 | 29°29 | 27°42 | 27°14 | 17°48 | T 7 |
| F 8 | 3 11 57 | 16°29'49 | 7♊12 | 18°11 | 2°38 | 29°43 | 14°32 | 22°33 | 16°59 | 20°22 | 14°39 | 29°22 | 27°39 | 27°20 | 17°46 | F 8 |
| S 9 | 3 15 53 | 17°30'14 | 22°20 | 19°47 | 3°53 | 0♍13 | 14°26 | 22°33 | 16°57 | 20°22 | 14°38 | 29°15 | 27°36 | 27°27 | 17°43 | S 9 |
| S 10 | 3 19 50 | 18°30'41 | 7♋ 8 | 21°21 | 5° 8 | 0°44 | 14°19 | 22°32 | 16°55 | 20°23 | 14°38 | 29° 8 | 27°32 | 27°34 | 17°41 | S 10 |
| M11 | 3 23 46 | 19°31'09 | 21°31 | 22°56 | 6°23 | 1°14 | 14°13 | 22°31 | 16°53 | 20°23 | 14°37 | 29° 3 | 27°29 | 27°41 | 17°38 | M11 |
| T 12 | 3 27 43 | 20°31'40 | 5♌25 | 24°30 | 7°38 | 1°44 | 14° 6 | 22°30 | 16°51 | 20°23 | 14°36 | 28°59 | 27°26 | 27°47 | 17°36 | T 12 |
| W13 | 3 31 39 | 21°32'12 | 18°52 | 26° 4 | 8°53 | 2°14 | 13°59 | 22°29 | 16°49 | 20°24 | 14°36 | 28°D58 | 27°23 | 27°54 | 17°34 | W13 |
| T 14 | 3 35 36 | 22°32'46 | 1♍52 | 27°38 | 10° 8 | 2°44 | 13°52 | 22°28 | 16°47 | 20°24 | 14°35 | 28°58 | 27°20 | 28° 1 | 17°32 | T 14 |
| F 15 | 3 39 33 | 23°33'22 | 14°31 | 29°12 | 11°23 | 3°13 | 13°44 | 22°27 | 16°45 | 20°25 | 14°34 | 28°59 | 27°17 | 28° 7 | 17°29 | F 15 |
| S 16 | 3 43 29 | 24°34'00 | 26°53 | 0♐46 | 12°38 | 3°42 | 13°37 | 22°25 | 16°43 | 20°25 | 14°33 | 29°R 0 | 27°13 | 28°14 | 17°27 | S 16 |
| S 17 | 3 47 26 | 25°34'39 | 9♎ 2 | 2°19 | 13°53 | 4°12 | 13°30 | 22°24 | 16°42 | 20°26 | 14°33 | 29° 0 | 27°10 | 28°21 | 17°25 | S 17 |
| M18 | 3 51 22 | 26°35'20 | 21° 2 | 3°52 | 15° 8 | 4°41 | 13°22 | 22°22 | 16°40 | 20°26 | 14°32 | 28°57 | 27° 7 | 28°27 | 17°23 | M18 |
| T 19 | 3 55 19 | 27°36'03 | 2♏56 | 5°25 | 16°23 | 5° 9 | 13°15 | 22°21 | 16°38 | 20°27 | 14°31 | 28°52 | 27° 4 | 28°34 | 17°21 | T 19 |
| W20 | 3 59 15 | 28°36'47 | 14°47 | 6°58 | 17°38 | 5°38 | 13° 7 | 22°19 | 16°37 | 20°27 | 14°30 | 28°44 | 27° 1 | 28°41 | 17°19 | W20 |
| T 21 | 4 3 12 | 29°37'32 | 26°38 | 8°31 | 18°53 | 6° 6 | 12°59 | 22°17 | 16°35 | 20°28 | 14°30 | 28°33 | 26°58 | 28°48 | 17°17 | T 21 |
| F 22 | 4 7 8 | 0♐38'19 | 8♐29 | 10° 3 | 20° 8 | 6°34 | 12°51 | 22°15 | 16°33 | 20°29 | 14°29 | 28°21 | 26°54 | 28°54 | 17°15 | F 22 |
| S 23 | 4 11 5 | 1°39'07 | 20°23 | 11°36 | 21°23 | 7° 2 | 12°44 | 22°13 | 16°32 | 20°30 | 14°28 | 28° 8 | 26°51 | 29° 1 | 17°13 | S 23 |
| S 24 | 4 15 2 | 2°39'57 | 2♑20 | 13° 8 | 22°37 | 7°30 | 12°36 | 22°10 | 16°30 | 20°30 | 14°27 | 27°56 | 26°48 | 29° 8 | 17°12 | S 24 |
| M25 | 4 18 58 | 3°40'47 | 14°22 | 14°40 | 23°52 | 7°57 | 12°28 | 22° 8 | 16°29 | 20°31 | 14°26 | 27°44 | 26°45 | 29°14 | 17°10 | M25 |
| T 26 | 4 22 55 | 4°41'38 | 26°32 | 16°12 | 25° 7 | 8°25 | 12°20 | 22° 6 | 16°28 | 20°32 | 14°25 | 27°36 | 26°42 | 29°21 | 17° 8 | T 26 |
| W27 | 4 26 51 | 5°42'31 | 8♒52 | 17°44 | 26°22 | 8°52 | 12°11 | 22° 3 | 16°26 | 20°33 | 14°24 | 27°30 | 26°38 | 29°28 | 17° 6 | W27 |
| T 28 | 4 30 48 | 6°43'24 | 21°26 | 19°16 | 27°37 | 9°18 | 12° 3 | 22° 0 | 16°25 | 20°34 | 14°23 | 27°26 | 26°35 | 29°35 | 17° 5 | T 28 |
| F 29 | 4 34 44 | 7°44'18 | 4♓17 | 20°47 | 28°52 | 9°45 | 11°55 | 21°58 | 16°24 | 20°35 | 14°22 | 27°D25 | 26°32 | 29°41 | 17° 3 | F 29 |
| S 30 | 4 38 41 | 8♐45'13 | 17♓30 | 22♐19 | 0♑ 7 | 10♍11 | 11♊47 | 21♋55 | 16♈22 | 20♒36 | 14♋21 | 27♍25 | 26♍29 | 29♏48 | 17♈ 2 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14s40 | 10s21 | 2n56 | 13s23 | 0n30 | 18s47 | 0n 0 | 14n25 | 1n41 | 21n54 | 0s45 | 21n23 | 0s12 | 6n10 | 0s39 | 15s 8 | 0s26 | 21n53 | 0s47 | 0n 9 | 0n47 | 15s 9 | 7n59 | 0n58 |
| S 2 | 14 59 | 6 36 | 1 52 | 14 1 | 0 23 | 19 7 | 0s 2 | 14 16 | 1 42 | 21 54 | 0 45 | 21 23 | 0 12 | 6 9 | 0 39 | 15 8 | 0 26 | 21 53 | 0 47 | 0 8 | 0 49 | 15 10 | 7 58 | 0 58 |
| S 3 | 15 18 | 2 23 | 0 39 | 14 38 | 0 16 | 19 28 | 0 5 | 14 6 | 1 43 | 21 53 | 0 45 | 21 23 | 0 12 | 6 9 | 0 39 | 15 8 | 0 26 | 21 53 | 0 47 | 0 8 | 0 50 | 15 11 | 7 57 | 0 58 |
| M 4 | 15 36 | 2n 7 | 0s39 | 15 15 | 0 10 | 19 47 | 0 7 | 13 56 | 1 44 | 21 53 | 0 45 | 21 24 | 0 12 | 6 8 | 0 39 | 15 8 | 0 26 | 21 53 | 0 47 | 0 8 | 0 51 | 15 12 | 7 56 | 0 58 |
| T 5 | 15 55 | 6 38 | 1 56 | 15 50 | 0 3 | 20 6 | 0 10 | 13 46 | 1 45 | 21 52 | 0 45 | 21 24 | 0 12 | 6 7 | 0 39 | 15 8 | 0 26 | 21 53 | 0 47 | 0 8 | 0 52 | 15 13 | 7 55 | 0 58 |
| W 6 | 16 13 | 10 49 | 3 6 | 16 25 | 0s 4 | 20 25 | 0 13 | 13 36 | 1 46 | 21 51 | 0 45 | 21 24 | 0 11 | 6 6 | 0 39 | 15 8 | 0 26 | 21 53 | 0 47 | 0 10 | 0 54 | 15 14 | 7 54 | 0 58 |
| T 7 | 16 30 | 14 20 | 4 4 | 16 59 | 0 10 | 20 43 | 0 15 | 13 26 | 1 47 | 21 51 | 0 45 | 21 24 | 0 11 | 6 5 | 0 39 | 15 8 | 0 26 | 21 53 | 0 47 | 0 12 | 0 55 | 15 15 | 7 53 | 0 58 |
| F 8 | 16 48 | 16 52 | 4 45 | 17 33 | 0 17 | 21 1 | 0 18 | 13 16 | 1 48 | 21 50 | 0 45 | 21 24 | 0 11 | 6 5 | 0 39 | 15 8 | 0 26 | 21 53 | 0 47 | 0 15 | 0 56 | 15 16 | 7 52 | 0 57 |
| S 9 | 17 5 | 18 10 | 5 5 | 18 5 | 0 24 | 21 17 | 0 20 | 13 6 | 1 49 | 21 49 | 0 45 | 21 24 | 0 11 | 6 4 | 0 39 | 15 8 | 0 26 | 21 54 | 0 47 | 0 18 | 0 57 | 15 17 | 7 51 | 0 57 |
| S 10 | 17 22 | 18 13 | 5 5 | 18 37 | 0 30 | 21 34 | 0 23 | 12 57 | 1 50 | 21 49 | 0 45 | 21 24 | 0 11 | 6 3 | 0 39 | 15 8 | 0 26 | 21 54 | 0 47 | 0 21 | 0 59 | 15 18 | 7 50 | 0 57 |
| M11 | 17 38 | 17 4 | 4 44 | 19 8 | 0 37 | 21 49 | 0 25 | 12 47 | 1 51 | 21 48 | 0 45 | 21 25 | 0 11 | 6 2 | 0 39 | 15 8 | 0 26 | 21 54 | 0 47 | 0 23 | 1 0 | 15 19 | 7 49 | 0 57 |
| T 12 | 17 55 | 14 56 | 4 8 | 19 37 | 0 43 | 22 4 | 0 28 | 12 37 | 1 52 | 21 47 | 0 45 | 21 25 | 0 11 | 6 2 | 0 39 | 15 8 | 0 26 | 21 54 | 0 47 | 0 24 | 1 1 | 15 20 | 7 48 | 0 57 |
| W13 | 18 11 | 12 3 | 3 19 | 20 6 | 0 49 | 22 19 | 0 30 | 12 27 | 1 53 | 21 47 | 0 45 | 21 25 | 0 11 | 6 1 | 0 39 | 15 8 | 0 26 | 21 54 | 0 47 | 0 25 | 1 3 | 15 21 | 7 47 | 0 57 |
| T 14 | 18 26 | 8 38 | 2 21 | 20 34 | 0 55 | 22 32 | 0 32 | 12 17 | 1 54 | 21 46 | 0 45 | 21 25 | 0 11 | 6 0 | 0 39 | 15 7 | 0 26 | 21 54 | 0 47 | 0 25 | 1 4 | 15 22 | 7 46 | 0 57 |
| F 15 | 18 42 | 4 55 | 1 17 | 21 1 | 1 1 | 22 45 | 0 35 | 12 8 | 1 55 | 21 45 | 0 45 | 21 26 | 0 11 | 6 0 | 0 39 | 15 7 | 0 26 | 21 54 | 0 47 | 0 24 | 1 5 | 15 23 | 7 45 | 0 57 |
| S 16 | 18 57 | 1 4 | 0 11 | 21 26 | 1 7 | 22 58 | 0 37 | 11 58 | 1 56 | 21 44 | 0 44 | 21 26 | 0 11 | 5 59 | 0 39 | 15 7 | 0 26 | 21 54 | 0 47 | 0 24 | 1 6 | 15 24 | 7 44 | 0 57 |
| S 17 | 19 11 | 2s46 | 0n54 | 21 51 | 1 13 | 23 10 | 0 40 | 11 48 | 1 57 | 21 43 | 0 44 | 21 26 | 0 11 | 5 58 | 0 39 | 15 7 | 0 26 | 21 55 | 0 47 | 0 24 | 1 8 | 15 25 | 7 43 | 0 56 |
| M18 | 19 25 | 6 26 | 1 55 | 22 15 | 1 19 | 23 21 | 0 42 | 11 39 | 1 58 | 21 43 | 0 44 | 21 27 | 0 10 | 5 58 | 0 39 | 15 7 | 0 26 | 21 55 | 0 47 | 0 25 | 1 9 | 15 26 | 7 42 | 0 56 |
| T 19 | 19 39 | 9 50 | 2 51 | 22 37 | 1 24 | 23 31 | 0 44 | 11 29 | 1 59 | 21 42 | 0 44 | 21 27 | 0 10 | 5 57 | 0 39 | 15 7 | 0 26 | 21 55 | 0 47 | 0 27 | 1 10 | 15 27 | 7 41 | 0 56 |
| W20 | 19 53 | 12 48 | 3 39 | 22 59 | 1 29 | 23 41 | 0 47 | 11 20 | 2 1 | 21 41 | 0 44 | 21 28 | 0 10 | 5 56 | 0 39 | 15 6 | 0 26 | 21 55 | 0 47 | 0 30 | 1 11 | 15 28 | 7 40 | 0 56 |
| T 21 | 20 6 | 15 15 | 4 18 | 23 19 | 1 35 | 23 50 | 0 49 | 11 10 | 2 2 | 21 40 | 0 44 | 21 28 | 0 10 | 5 56 | 0 39 | 15 6 | 0 26 | 21 55 | 0 47 | 0 35 | 1 13 | 15 30 | 7 40 | 0 56 |
| F 22 | 20 19 | 17 4 | 4 45 | 23 38 | 1 39 | 23 58 | 0 51 | 11 1 | 2 3 | 21 39 | 0 44 | 21 28 | 0 10 | 5 55 | 0 39 | 15 6 | 0 26 | 21 55 | 0 46 | 0 39 | 1 14 | 15 31 | 7 39 | 0 56 |
| S 23 | 20 32 | 18 9 | 5 0 | 23 56 | 1 44 | 24 5 | 0 54 | 10 52 | 2 4 | 21 38 | 0 44 | 21 29 | 0 10 | 5 55 | 0 39 | 15 6 | 0 26 | 21 55 | 0 46 | 0 45 | 1 15 | 15 32 | 7 38 | 0 56 |
| S 24 | 20 44 | 18 26 | 5 2 | 24 12 | 1 49 | 24 12 | 0 56 | 10 42 | 2 5 | 21 37 | 0 44 | 21 29 | 0 10 | 5 54 | 0 39 | 15 5 | 0 26 | 21 55 | 0 46 | 0 50 | 1 16 | 15 33 | 7 37 | 0 56 |
| M25 | 20 55 | 17 54 | 4 50 | 24 28 | 1 53 | 24 18 | 0 58 | 10 33 | 2 6 | 21 36 | 0 44 | 21 30 | 0 10 | 5 54 | 0 39 | 15 5 | 0 26 | 21 56 | 0 46 | 0 54 | 1 18 | 15 34 | 7 36 | 0 55 |
| T 26 | 21 7 | 16 32 | 4 25 | 24 42 | 1 57 | 24 24 | 1 0 | 10 24 | 2 7 | 21 35 | 0 44 | 21 30 | 0 10 | 5 53 | 0 39 | 15 5 | 0 26 | 21 56 | 0 46 | 0 57 | 1 19 | 15 35 | 7 36 | 0 55 |
| W27 | 21 18 | 14 24 | 3 48 | 24 55 | 2 1 | 24 28 | 1 2 | 10 15 | 2 9 | 21 34 | 0 43 | 21 31 | 0 10 | 5 53 | 0 39 | 15 5 | 0 26 | 21 56 | 0 46 | 1 0 | 1 20 | 15 36 | 7 35 | 0 55 |
| T 28 | 21 28 | 11 34 | 2 59 | 25 6 | 2 4 | 24 32 | 1 5 | 10 6 | 2 10 | 21 33 | 0 43 | 21 31 | 0 10 | 5 52 | 0 39 | 15 4 | 0 26 | 21 56 | 0 46 | 1 1 | 1 22 | 15 37 | 7 34 | 0 55 |
| F 29 | 21 38 | 8 6 | 2 0 | 25 16 | 2 7 | 24 35 | 1 7 | 9 57 | 2 11 | 21 33 | 0 43 | 21 32 | 0 9 | 5 52 | 0 39 | 15 4 | 0 26 | 21 56 | 0 46 | 1 2 | 1 23 | 15 38 | 7 33 | 0 55 |
| S 30 | 21s48 | 4s 9 | 0n53 | 25s25 | 2s10 | 24s37 | 1s 9 | 9n48 | 2n12 | 21n32 | 0s43 | 21n32 | 0s 9 | 5n51 | 0s39 | 15s 4 | 0s26 | 21n56 | 0s46 | 1n 2 | 1n24 | 15s39 | 7n33 | 0n55 |

Julian Day Number = 2334972.5, Delta T = 23.19 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'07, Lahiri = 19°24'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1680
# geocentric

## DECEMBER 1680 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 42 37 | 9♐46'08 | 1♈ 7 | 23♐50 | 1♑22 | 10♍37 | 11°R39 | 21°R52 | 16°R21 | 20♒37 | 14°R20 | 27°R25 | 26♍26 | 29♏55 | 17°R 0 | S 1 |
| M 2 | 4 46 34 | 10°47'04 | 15°12 | 25°20 | 2°36 | 11° 3 | 11♊31 | 21♋49 | 16♈20 | 20°38 | 14♋19 | 27♍24 | 26°23 | 0♐ 1 | 16♈59 | M 2 |
| T 3 | 4 50 31 | 11°48'01 | 29°44 | 26°51 | 3°51 | 11°28 | 11°23 | 21°46 | 16°19 | 20°39 | 14°18 | 27°21 | 26°19 | 0° 8 | 16°57 | T 3 |
| W 4 | 4 54 27 | 12°48'59 | 14♉40 | 28°20 | 5° 6 | 11°54 | 11°14 | 21°42 | 16°18 | 20°40 | 14°17 | 27°15 | 26°16 | 0°15 | 16°56 | W 4 |
| T 5 | 4 58 24 | 13°49'57 | 29°53 | 29°50 | 6°21 | 12°19 | 11° 6 | 21°39 | 16°17 | 20°41 | 14°16 | 27° 6 | 26°13 | 0°21 | 16°55 | T 5 |
| F 6 | 5 2 20 | 14°50'57 | 15♊13 | 1♑19 | 7°36 | 12°43 | 10°58 | 21°36 | 16°16 | 20°42 | 14°15 | 26°55 | 26°10 | 0°28 | 16°54 | F 6 |
| S 7 | 5 6 17 | 15°51'57 | 0♋28 | 2°47 | 8°51 | 13° 8 | 10°50 | 21°32 | 16°15 | 20°43 | 14°14 | 26°44 | 26° 7 | 0°35 | 16°52 | S 7 |
| S 8 | 5 10 13 | 16°52'58 | 15°28 | 4°14 | 10° 5 | 13°32 | 10°42 | 21°29 | 16°14 | 20°45 | 14°13 | 26°33 | 26° 4 | 0°42 | 16°51 | S 8 |
| M 9 | 5 14 10 | 17°54'00 | 0♌ 3 | 5°40 | 11°20 | 13°56 | 10°34 | 21°25 | 16°13 | 20°46 | 14°12 | 26°24 | 26° 0 | 0°48 | 16°50 | M 9 |
| T 10 | 5 18 6 | 18°55'03 | 14° 9 | 7° 4 | 12°35 | 14°19 | 10°26 | 21°21 | 16°13 | 20°47 | 14°11 | 26°17 | 25°57 | 0°55 | 16°49 | T 10 |
| W11 | 5 22 3 | 19°56'06 | 27°45 | 8°28 | 13°50 | 14°43 | 10°18 | 21°18 | 16°12 | 20°48 | 14° 9 | 26°14 | 25°54 | 1° 2 | 16°48 | W11 |
| T 12 | 5 26 0 | 20°57'11 | 10♍51 | 9°49 | 15° 4 | 15° 6 | 10°10 | 21°14 | 16°11 | 20°50 | 14° 8 | 26°12 | 25°51 | 1° 8 | 16°47 | T 12 |
| F 13 | 5 29 56 | 21°58'16 | 23°32 | 11° 9 | 16°19 | 15°28 | 10° 2 | 21°10 | 16°11 | 20°51 | 14° 7 | 26°12 | 25°48 | 1°15 | 16°47 | F 13 |
| S 14 | 5 33 53 | 22°59'23 | 5♎53 | 12°26 | 17°34 | 15°51 | 9°54 | 21° 6 | 16°10 | 20°52 | 14° 6 | 26°12 | 25°44 | 1°22 | 16°46 | S 14 |
| S 15 | 5 37 49 | 24° 0'30 | 17°59 | 13°40 | 18°48 | 16°12 | 9°47 | 21° 2 | 16°10 | 20°54 | 14° 5 | 26°10 | 25°41 | 1°29 | 16°45 | S 15 |
| M16 | 5 41 46 | 25° 1'38 | 29°55 | 14°51 | 20° 3 | 16°34 | 9°39 | 20°58 | 16° 9 | 20°55 | 14° 4 | 26° 7 | 25°38 | 1°35 | 16°44 | M16 |
| T 17 | 5 45 42 | 26° 2'46 | 11♏45 | 15°58 | 21°18 | 16°55 | 9°31 | 20°53 | 16° 9 | 20°57 | 14° 2 | 26° 0 | 25°35 | 1°42 | 16°44 | T 17 |
| W18 | 5 49 39 | 27° 3'56 | 23°34 | 17° 1 | 22°33 | 17°16 | 9°24 | 20°49 | 16° 8 | 20°58 | 14° 1 | 25°51 | 25°32 | 1°49 | 16°43 | W18 |
| T 19 | 5 53 35 | 28° 5'06 | 5♐25 | 17°58 | 23°47 | 17°37 | 9°16 | 20°45 | 16° 8 | 21° 0 | 14° 0 | 25°39 | 25°29 | 1°55 | 16°43 | T 19 |
| F 20 | 5 57 32 | 29° 6'16 | 17°19 | 18°50 | 25° 2 | 17°57 | 9° 9 | 20°40 | 16° 8 | 21° 1 | 13°59 | 25°24 | 25°25 | 2° 2 | 16°42 | F 20 |
| S 21 | 6 1 29 | 0♑ 7'27 | 29°19 | 19°35 | 26°16 | 18°17 | 9° 2 | 20°36 | 16° 8 | 21° 3 | 13°58 | 25° 9 | 25°22 | 2° 9 | 16°42 | S 21 |
| S 22 | 6 5 25 | 1° 8'38 | 11♑25 | 20°12 | 27°31 | 18°36 | 8°55 | 20°32 | 16° 7 | 21° 5 | 13°56 | 24°54 | 25°19 | 2°16 | 16°42 | S 22 |
| M23 | 6 9 22 | 2° 9'49 | 23°38 | 20°41 | 28°46 | 18°55 | 8°48 | 20°27 | 16° 7 | 21° 6 | 13°55 | 24°41 | 25°16 | 2°22 | 16°41 | M23 |
| T 24 | 6 13 18 | 3°11'00 | 5♒59 | 21° 0 | 0♒ 0 | 19°14 | 8°41 | 20°22 | 16°D 7 | 21° 8 | 13°54 | 24°30 | 25°13 | 2°29 | 16°41 | T 24 |
| W25 | 6 17 15 | 4°12'11 | 18°29 | 21°R 9 | 1°15 | 19°32 | 8°35 | 20°18 | 16° 7 | 21° 9 | 13°53 | 24°23 | 25°10 | 2°36 | 16°41 | W25 |
| T 26 | 6 21 11 | 5°13'22 | 1♓10 | 21° 7 | 2°29 | 19°49 | 8°28 | 20°13 | 16° 7 | 21°11 | 13°51 | 24°18 | 25° 6 | 2°42 | 16°41 | T 26 |
| F 27 | 6 25 8 | 6°14'33 | 14° 5 | 20°53 | 3°44 | 20° 7 | 8°22 | 20° 8 | 16° 7 | 21°13 | 13°50 | 24°16 | 25° 3 | 2°49 | 16°D41 | F 27 |
| S 28 | 6 29 4 | 7°15'44 | 27°16 | 20°27 | 4°58 | 20°24 | 8°15 | 20° 4 | 16° 8 | 21°15 | 13°49 | 24°D16 | 25° 0 | 2°56 | 16°41 | S 28 |
| S 29 | 6 33 1 | 8°16'54 | 10♈47 | 19°50 | 6°13 | 20°40 | 8° 9 | 19°59 | 16° 8 | 21°16 | 13°48 | 24°R16 | 24°57 | 3° 3 | 16°41 | S 29 |
| M30 | 6 36 58 | 9°18'04 | 24°39 | 19° 2 | 7°27 | 20°56 | 8° 3 | 19°54 | 16° 8 | 21°18 | 13°46 | 24°15 | 24°54 | 3° 9 | 16°41 | M30 |
| T 31 | 6 40 54 | 10♑19'14 | 8♉53 | 18♑ 3 | 8♒41 | 21♍11 | 7♊57 | 19♋49 | 16♈ 8 | 21♒20 | 13♋45 | 24♍12 | 24♍50 | 3♐16 | 16♈41 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s57 | 0n 9 | 0s20 | 25s32 | 2s12 | 24s39 | 1s11 | 9n39 | 2n13 | 21n31 | 0s43 | 21n33 | 0s 9 | 5n51 | 0s38 | 15s 3 | 0s26 | 21n57 | 0s46 | 1n 2 | 1n25 | 15s40 | 7n32 | 0n55 |
| M 2 | 22 6 | 4 34 | 1 33 | 25 38 | 2 14 | 24 40 | 1 13 | 9 31 | 2 15 | 21 30 | 0 43 | 21 33 | 0 9 | 5 50 | 0 38 | 15 3 | 0 26 | 21 57 | 0 46 | 1 2 | 1 27 | 15 41 | 7 31 | 0 55 |
| T 3 | 22 14 | 8 52 | 2 42 | 25 42 | 2 16 | 24 40 | 1 14 | 9 22 | 2 16 | 21 29 | 0 43 | 21 34 | 0 9 | 5 50 | 0 38 | 15 3 | 0 26 | 21 57 | 0 46 | 1 3 | 1 28 | 15 42 | 7 31 | 0 54 |
| W 4 | 22 22 | 12 43 | 3 42 | 25 45 | 2 17 | 24 39 | 1 16 | 9 13 | 2 17 | 21 28 | 0 42 | 21 35 | 0 9 | 5 50 | 0 38 | 15 2 | 0 26 | 21 57 | 0 46 | 1 6 | 1 29 | 15 43 | 7 30 | 0 54 |
| T 5 | 22 30 | 15 47 | 4 28 | 25 47 | 2 18 | 24 37 | 1 18 | 9 5 | 2 18 | 21 27 | 0 42 | 21 35 | 0 9 | 5 49 | 0 38 | 15 2 | 0 26 | 21 57 | 0 46 | 1 9 | 1 30 | 15 44 | 7 29 | 0 54 |
| F 6 | 22 37 | 17 47 | 4 55 | 25 47 | 2 18 | 24 35 | 1 20 | 8 57 | 2 20 | 21 26 | 0 42 | 21 36 | 0 9 | 5 49 | 0 38 | 15 2 | 0 26 | 21 57 | 0 46 | 1 14 | 1 32 | 15 45 | 7 29 | 0 54 |
| S 7 | 22 44 | 18 29 | 5 0 | 25 45 | 2 18 | 24 32 | 1 21 | 8 48 | 2 21 | 21 25 | 0 42 | 21 36 | 0 9 | 5 49 | 0 38 | 15 1 | 0 26 | 21 58 | 0 46 | 1 18 | 1 33 | 15 46 | 7 28 | 0 54 |
| S 8 | 22 50 | 17 52 | 4 45 | 25 42 | 2 18 | 24 29 | 1 23 | 8 40 | 2 22 | 21 24 | 0 42 | 21 37 | 0 9 | 5 48 | 0 38 | 15 1 | 0 26 | 21 58 | 0 46 | 1 23 | 1 34 | 15 47 | 7 28 | 0 54 |
| M 9 | 22 56 | 16 5 | 4 11 | 25 38 | 2 16 | 24 24 | 1 25 | 8 32 | 2 24 | 21 23 | 0 42 | 21 38 | 0 9 | 5 48 | 0 38 | 15 0 | 0 26 | 21 58 | 0 46 | 1 26 | 1 35 | 15 48 | 7 27 | 0 54 |
| T 10 | 23 1 | 13 22 | 3 23 | 25 32 | 2 14 | 24 19 | 1 26 | 8 24 | 2 25 | 21 22 | 0 42 | 21 38 | 0 8 | 5 48 | 0 38 | 15 0 | 0 26 | 21 58 | 0 46 | 1 29 | 1 37 | 15 49 | 7 27 | 0 54 |
| W11 | 23 6 | 10 1 | 2 24 | 25 24 | 2 12 | 24 13 | 1 28 | 8 17 | 2 26 | 21 21 | 0 41 | 21 39 | 0 8 | 5 48 | 0 38 | 15 0 | 0 26 | 21 58 | 0 45 | 1 30 | 1 38 | 15 50 | 7 26 | 0 53 |
| T 12 | 23 10 | 6 16 | 1 20 | 25 15 | 2 9 | 24 6 | 1 29 | 8 9 | 2 27 | 21 20 | 0 41 | 21 40 | 0 8 | 5 47 | 0 38 | 14 59 | 0 26 | 21 58 | 0 45 | 1 31 | 1 39 | 15 50 | 7 26 | 0 53 |
| F 13 | 23 14 | 2 21 | 0 14 | 25 5 | 2 4 | 23 59 | 1 31 | 8 1 | 2 29 | 21 19 | 0 41 | 21 41 | 0 8 | 5 47 | 0 38 | 14 59 | 0 26 | 21 59 | 0 45 | 1 31 | 1 40 | 15 51 | 7 25 | 0 53 |
| S 14 | 23 18 | 1s34 | 0n51 | 24 53 | 2 0 | 23 50 | 1 32 | 7 54 | 2 30 | 21 18 | 0 41 | 21 41 | 0 8 | 5 47 | 0 38 | 14 58 | 0 26 | 21 59 | 0 45 | 1 31 | 1 42 | 15 52 | 7 25 | 0 53 |
| S 15 | 23 21 | 5 20 | 1 52 | 24 40 | 1 54 | 23 41 | 1 33 | 7 47 | 2 32 | 21 17 | 0 41 | 21 42 | 0 8 | 5 47 | 0 38 | 14 58 | 0 26 | 21 59 | 0 45 | 1 31 | 1 43 | 15 53 | 7 24 | 0 53 |
| M16 | 23 23 | 8 50 | 2 48 | 24 26 | 1 47 | 23 32 | 1 34 | 7 39 | 2 33 | 21 16 | 0 41 | 21 43 | 0 8 | 5 47 | 0 38 | 14 57 | 0 26 | 21 59 | 0 45 | 1 33 | 1 44 | 15 54 | 7 24 | 0 53 |
| T 17 | 23 25 | 11 58 | 3 36 | 24 10 | 1 40 | 23 21 | 1 35 | 7 32 | 2 34 | 21 15 | 0 40 | 21 43 | 0 8 | 5 47 | 0 38 | 14 57 | 0 26 | 21 59 | 0 45 | 1 35 | 1 46 | 15 55 | 7 24 | 0 53 |
| W18 | 23 27 | 14 36 | 4 14 | 23 54 | 1 31 | 23 10 | 1 36 | 7 25 | 2 36 | 21 14 | 0 40 | 21 44 | 0 8 | 5 46 | 0 38 | 14 56 | 0 26 | 21 59 | 0 45 | 1 39 | 1 47 | 15 56 | 7 23 | 0 53 |
| T 19 | 23 28 | 16 38 | 4 41 | 23 37 | 1 21 | 22 59 | 1 37 | 7 19 | 2 37 | 21 13 | 0 40 | 21 45 | 0 7 | 5 46 | 0 38 | 14 56 | 0 26 | 22 0 | 0 45 | 1 44 | 1 48 | 15 57 | 7 23 | 0 52 |
| F 20 | 23 28 | 17 57 | 4 56 | 23 19 | 1 10 | 22 46 | 1 38 | 7 12 | 2 39 | 21 12 | 0 40 | 21 46 | 0 7 | 5 46 | 0 38 | 14 55 | 0 26 | 22 0 | 0 45 | 1 50 | 1 49 | 15 58 | 7 23 | 0 52 |
| S 21 | 23 29 | 18 30 | 4 59 | 23 1 | 0 58 | 22 33 | 1 39 | 7 6 | 2 40 | 21 11 | 0 40 | 21 47 | 0 7 | 5 46 | 0 38 | 14 55 | 0 26 | 22 0 | 0 45 | 1 56 | 1 51 | 15 59 | 7 23 | 0 52 |
| S 22 | 23 28 | 18 13 | 4 47 | 22 42 | 0 45 | 22 19 | 1 40 | 6 59 | 2 41 | 21 10 | 0 39 | 21 47 | 0 7 | 5 46 | 0 38 | 14 54 | 0 26 | 22 0 | 0 45 | 2 2 | 1 52 | 16 0 | 7 22 | 0 52 |
| M23 | 23 28 | 17 6 | 4 23 | 22 23 | 0 31 | 22 5 | 1 41 | 6 53 | 2 43 | 21 9 | 0 39 | 21 48 | 0 7 | 5 46 | 0 38 | 14 54 | 0 26 | 22 0 | 0 45 | 2 7 | 1 53 | 16 1 | 7 22 | 0 52 |
| T 24 | 23 26 | 15 10 | 3 46 | 22 5 | 0 15 | 21 50 | 1 41 | 6 47 | 2 44 | 21 9 | 0 39 | 21 49 | 0 7 | 5 46 | 0 38 | 14 53 | 0 26 | 22 1 | 0 45 | 2 11 | 1 54 | 16 2 | 7 22 | 0 52 |
| W25 | 23 25 | 12 30 | 2 57 | 21 47 | 0n 2 | 21 34 | 1 42 | 6 42 | 2 46 | 21 8 | 0 39 | 21 50 | 0 7 | 5 46 | 0 38 | 14 53 | 0 26 | 22 1 | 0 45 | 2 14 | 1 56 | 16 3 | 7 22 | 0 52 |
| T 26 | 23 22 | 9 13 | 1 59 | 21 30 | 0 19 | 21 18 | 1 42 | 6 36 | 2 47 | 21 7 | 0 39 | 21 50 | 0 7 | 5 46 | 0 38 | 14 52 | 0 26 | 22 1 | 0 45 | 2 16 | 1 57 | 16 4 | 7 22 | 0 52 |
| F 27 | 23 20 | 5 27 | 0 54 | 21 14 | 0 38 | 21 1 | 1 43 | 6 31 | 2 49 | 21 6 | 0 38 | 21 51 | 0 7 | 5 46 | 0 38 | 14 52 | 0 26 | 22 1 | 0 45 | 2 17 | 1 58 | 16 5 | 7 21 | 0 51 |
| S 28 | 23 17 | 1 20 | 0s16 | 20 59 | 0 57 | 20 43 | 1 43 | 6 25 | 2 50 | 21 5 | 0 38 | 21 52 | 0 7 | 5 47 | 0 38 | 14 51 | 0 26 | 22 1 | 0 45 | 2 17 | 1 59 | 16 6 | 7 21 | 0 51 |
| S 29 | 23 13 | 2n57 | 1 26 | 20 45 | 1 16 | 20 25 | 1 43 | 6 20 | 2 52 | 21 5 | 0 38 | 21 53 | 0 6 | 5 47 | 0 37 | 14 51 | 0 26 | 22 2 | 0 44 | 2 17 | 2 1 | 16 7 | 7 21 | 0 51 |
| M30 | 23 9 | 7 11 | 2 34 | 20 33 | 1 36 | 20 6 | 1 44 | 6 15 | 2 53 | 21 4 | 0 38 | 21 54 | 0 6 | 5 47 | 0 37 | 14 50 | 0 26 | 22 2 | 0 44 | 2 17 | 2 2 | 16 8 | 7 21 | 0 51 |
| T 31 | 23s 5 | 11n 7 | 3s33 | 20s22 | 1n55 | 19s47 | 1s44 | 6n11 | 2n55 | 21n 3 | 0s38 | 21n55 | 0s 6 | 5n47 | 0s37 | 14s49 | 0s26 | 22n 2 | 0s44 | 2n18 | 2n 3 | 16s 9 | 7n21 | 0n51 |

Julian Day Number = 2335002.5, Delta T = 23.14 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'11, Lahiri = 19°24'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## JANUARY 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 44 51 | 11♑20'23 | 23♉29 | 16°R55 | 9♒56 | 21♏26 | 7°R52 | 19°R44 | 16♈ 9 | 21♒22 | 13°R44 | 24°R 7 | 24♏47 | 3♐23 | 16♈42 | W 1 |
| T 2 | 6 48 47 | 12°21'33 | 8♊22 | 15♑41 | 11°10 | 21°41 | 7♊46 | 19♋40 | 16° 9 | 21°24 | 13♋43 | 23♏59 | 24°44 | 3°29 | 16°42 | T 2 |
| F 3 | 6 52 44 | 13°22'41 | 23°24 | 14°22 | 12°24 | 21°55 | 7°41 | 19°35 | 16°10 | 21°26 | 13°41 | 23°49 | 24°41 | 3°36 | 16°42 | F 3 |
| S 4 | 6 56 40 | 14°23'50 | 8♋27 | 13° 2 | 13°39 | 22° 8 | 7°36 | 19°30 | 16°10 | 21°27 | 13°40 | 23°38 | 24°38 | 3°43 | 16°43 | S 4 |
| S 5 | 7 0 37 | 15°24'58 | 23°20 | 11°43 | 14°53 | 22°21 | 7°31 | 19°25 | 16°11 | 21°29 | 13°39 | 23°27 | 24°35 | 3°50 | 16°43 | S 5 |
| M 6 | 7 4 34 | 16°26'05 | 7♌55 | 10°26 | 16° 7 | 22°33 | 7°26 | 19°20 | 16°11 | 21°31 | 13°37 | 23°18 | 24°31 | 3°56 | 16°44 | M 6 |
| T 7 | 7 8 30 | 17°27'13 | 22° 5 | 9°15 | 17°21 | 22°45 | 7°21 | 19°15 | 16°12 | 21°33 | 13°36 | 23°12 | 24°28 | 4° 3 | 16°45 | T 7 |
| W 8 | 7 12 27 | 18°28'20 | 5♍46 | 8°12 | 18°35 | 22°57 | 7°17 | 19°10 | 16°13 | 21°35 | 13°35 | 23° 8 | 24°25 | 4°10 | 16°45 | W 8 |
| T 9 | 7 16 23 | 19°29'27 | 19° 0 | 7°16 | 19°50 | 23° 7 | 7°12 | 19° 5 | 16°14 | 21°37 | 13°34 | 23°D 7 | 24°22 | 4°16 | 16°46 | T 9 |
| F 10 | 7 20 20 | 20°30'34 | 1♎47 | 6°30 | 21° 4 | 23°18 | 7° 8 | 19° 0 | 16°14 | 21°39 | 13°32 | 23° 7 | 24°19 | 4°23 | 16°47 | F 10 |
| S 11 | 7 24 16 | 21°31'41 | 14°13 | 5°53 | 22°18 | 23°27 | 7° 4 | 18°55 | 16°15 | 21°41 | 13°31 | 23° 7 | 24°16 | 4°30 | 16°48 | S 11 |
| S 12 | 7 28 13 | 22°32'47 | 26°22 | 5°26 | 23°32 | 23°36 | 7° 0 | 18°50 | 16°16 | 21°43 | 13°30 | 23°R 8 | 24°12 | 4°37 | 16°49 | S 12 |
| M13 | 7 32 9 | 23°33'53 | 8♏19 | 5° 8 | 24°46 | 23°45 | 6°57 | 18°45 | 16°17 | 21°45 | 13°29 | 23° 6 | 24° 9 | 4°43 | 16°50 | M13 |
| T 14 | 7 36 6 | 24°34'59 | 20°11 | 4°59 | 25°59 | 23°52 | 6°54 | 18°40 | 16°18 | 21°47 | 13°27 | 23° 3 | 24° 6 | 4°50 | 16°51 | T 14 |
| W15 | 7 40 3 | 25°36'04 | 2♐ 1 | 4°D59 | 27°13 | 23°59 | 6°50 | 18°35 | 16°19 | 21°50 | 13°26 | 22°57 | 24° 3 | 4°57 | 16°52 | W15 |
| T 16 | 7 43 59 | 26°37'09 | 13°53 | 5° 7 | 28°27 | 24° 6 | 6°47 | 18°31 | 16°20 | 21°52 | 13°25 | 22°48 | 24° 0 | 5° 3 | 16°53 | T 16 |
| F 17 | 7 47 56 | 27°38'14 | 25°51 | 5°22 | 29°41 | 24°12 | 6°45 | 18°26 | 16°22 | 21°54 | 13°24 | 22°38 | 23°56 | 5°10 | 16°54 | F 17 |
| S 18 | 7 51 52 | 28°39'17 | 7♑58 | 5°44 | 0♓55 | 24°17 | 6°42 | 18°21 | 16°23 | 21°56 | 13°22 | 22°27 | 23°53 | 5°17 | 16°55 | S 18 |
| S 19 | 7 55 49 | 29°40'21 | 20°14 | 6°12 | 2° 8 | 24°21 | 6°40 | 18°16 | 16°24 | 21°58 | 13°21 | 22°17 | 23°50 | 5°24 | 16°57 | S 19 |
| M20 | 7 59 45 | 0♒41'23 | 2♒41 | 6°45 | 3°22 | 24°25 | 6°37 | 18°11 | 16°25 | 22° 0 | 13°20 | 22° 7 | 23°47 | 5°30 | 16°58 | M20 |
| T 21 | 8 3 42 | 1°42'25 | 15°18 | 7°24 | 4°36 | 24°28 | 6°35 | 18° 6 | 16°27 | 22° 2 | 13°19 | 21°59 | 23°44 | 5°37 | 16°59 | T 21 |
| W22 | 8 7 38 | 2°43'25 | 28° 7 | 8° 8 | 5°49 | 24°30 | 6°34 | 18° 2 | 16°28 | 22° 4 | 13°18 | 21°54 | 23°41 | 5°44 | 17° 1 | W22 |
| T 23 | 8 11 35 | 3°44'24 | 11♓ 6 | 8°55 | 7° 3 | 24°32 | 6°32 | 17°57 | 16°30 | 22° 7 | 13°16 | 21°51 | 23°37 | 5°50 | 17° 2 | T 23 |
| F 24 | 8 15 32 | 4°45'23 | 24°17 | 9°47 | 8°16 | 24°33 | 6°31 | 17°52 | 16°31 | 22° 9 | 13°15 | 21°D51 | 23°34 | 5°57 | 17° 4 | F 24 |
| S 25 | 8 19 28 | 5°46'20 | 7♈41 | 10°42 | 9°30 | 24°R33 | 6°30 | 17°48 | 16°33 | 22°11 | 13°14 | 21°52 | 23°31 | 6° 4 | 17° 6 | S 25 |
| S 26 | 8 23 25 | 6°47'16 | 21°17 | 11°40 | 10°43 | 24°32 | 6°29 | 17°43 | 16°34 | 22°13 | 13°13 | 21°53 | 23°28 | 6°11 | 17° 7 | S 26 |
| M27 | 8 27 21 | 7°48'10 | 5♉ 8 | 12°40 | 11°56 | 24°31 | 6°28 | 17°39 | 16°36 | 22°15 | 13°12 | 21°R54 | 23°25 | 6°17 | 17° 9 | M27 |
| T 28 | 8 31 18 | 8°49'03 | 19°12 | 13°44 | 13° 9 | 24°29 | 6°27 | 17°34 | 16°38 | 22°18 | 13°11 | 21°53 | 23°21 | 6°24 | 17°11 | T 28 |
| W29 | 8 35 14 | 9°49'55 | 3♊30 | 14°50 | 14°22 | 24°26 | 6°27 | 17°30 | 16°40 | 22°20 | 13° 9 | 21°51 | 23°18 | 6°31 | 17°13 | W29 |
| T 30 | 8 39 11 | 10°50'45 | 17°58 | 15°58 | 15°36 | 24°22 | 6°D27 | 17°26 | 16°41 | 22°22 | 13° 8 | 21°47 | 23°15 | 6°37 | 17°15 | T 30 |
| F 31 | 8 43 7 | 11♒51'34 | 2♋33 | 17♑ 8 | 16♓49 | 24♏17 | 6♊27 | 17♋21 | 16♈43 | 22♒24 | 13♋ 7 | 21♏41 | 23♏12 | 6♐44 | 17♈17 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s 0 | 14n28 | 4s20 | 20s13 | 2n13 | 19s27 | 1s44 | 6n 6 | 2n56 | 21n 2 | 0s37 | 21n55 | 0s 6 | 5n47 | 0s37 | 14s49 | 0s26 | 22n 2 | 0s44 | 2n21 | 2n 4 | 16s10 | 7n21 | 0n51 |
| T 2 | 22 54 | 16 57 | 4 51 | 20 5 | 2 29 | 19 7 | 1 44 | 6 2 | 2 58 | 21 2 | 0 37 | 21 56 | 0 6 | 5 47 | 0 37 | 14 48 | 0 26 | 22 2 | 0 44 | 2 24 | 2 6 | 16 10 | 7 21 | 0 51 |
| F 3 | 22 48 | 18 17 | 5 2 | 19 59 | 2 44 | 18 46 | 1 44 | 5 58 | 3 0 | 21 1 | 0 37 | 21 57 | 0 6 | 5 48 | 0 37 | 14 48 | 0 26 | 22 2 | 0 44 | 2 28 | 2 7 | 16 11 | 7 21 | 0 50 |
| S 4 | 22 42 | 18 21 | 4 52 | 19 54 | 2 57 | 18 24 | 1 43 | 5 54 | 3 1 | 21 0 | 0 37 | 21 58 | 0 6 | 5 48 | 0 37 | 14 47 | 0 26 | 22 3 | 0 44 | 2 32 | 2 8 | 16 12 | 7 21 | 0 50 |
| S 5 | 22 35 | 17 9 | 4 22 | 19 51 | 3 7 | 18 2 | 1 43 | 5 50 | 3 3 | 21 0 | 0 37 | 21 59 | 0 6 | 5 48 | 0 37 | 14 46 | 0 26 | 22 3 | 0 44 | 2 36 | 2 9 | 16 13 | 7 21 | 0 50 |
| M 6 | 22 28 | 14 50 | 3 36 | 19 50 | 3 15 | 17 40 | 1 43 | 5 47 | 3 4 | 20 59 | 0 36 | 21 59 | 0 6 | 5 48 | 0 37 | 14 46 | 0 26 | 22 3 | 0 44 | 2 40 | 2 11 | 16 14 | 7 21 | 0 50 |
| T 7 | 22 20 | 11 42 | 2 37 | 19 50 | 3 20 | 17 17 | 1 42 | 5 44 | 3 6 | 20 59 | 0 36 | 22 0 | 0 5 | 5 49 | 0 37 | 14 45 | 0 26 | 22 3 | 0 44 | 2 42 | 2 12 | 16 15 | 7 22 | 0 50 |
| W 8 | 22 12 | 8 0 | 1 31 | 19 51 | 3 23 | 16 54 | 1 42 | 5 41 | 3 8 | 20 58 | 0 36 | 22 1 | 0 5 | 5 49 | 0 37 | 14 45 | 0 26 | 22 3 | 0 44 | 2 44 | 2 13 | 16 16 | 7 22 | 0 50 |
| T 9 | 22 4 | 4 2 | 0 22 | 19 53 | 3 24 | 16 30 | 1 41 | 5 38 | 3 9 | 20 58 | 0 36 | 22 2 | 0 5 | 5 49 | 0 37 | 14 44 | 0 26 | 22 4 | 0 44 | 2 44 | 2 15 | 16 17 | 7 22 | 0 50 |
| F 10 | 21 55 | 0s 0 | 0n46 | 19 57 | 3 22 | 16 5 | 1 41 | 5 35 | 3 11 | 20 57 | 0 35 | 22 3 | 0 5 | 5 50 | 0 37 | 14 43 | 0 26 | 22 4 | 0 44 | 2 44 | 2 16 | 16 18 | 7 22 | 0 50 |
| S 11 | 21 45 | 3 55 | 1 50 | 20 2 | 3 19 | 15 41 | 1 40 | 5 33 | 3 13 | 20 57 | 0 35 | 22 3 | 0 5 | 5 50 | 0 37 | 14 43 | 0 26 | 22 4 | 0 44 | 2 44 | 2 17 | 16 19 | 7 22 | 0 49 |
| S 12 | 21 35 | 7 35 | 2 48 | 20 8 | 3 14 | 15 15 | 1 39 | 5 31 | 3 14 | 20 56 | 0 35 | 22 4 | 0 5 | 5 50 | 0 37 | 14 42 | 0 26 | 22 4 | 0 44 | 2 44 | 2 18 | 16 20 | 7 23 | 0 49 |
| M13 | 21 25 | 10 52 | 3 37 | 20 15 | 3 8 | 14 50 | 1 38 | 5 29 | 3 16 | 20 56 | 0 35 | 22 5 | 0 5 | 5 51 | 0 37 | 14 41 | 0 26 | 22 4 | 0 43 | 2 45 | 2 20 | 16 20 | 7 23 | 0 49 |
| T 14 | 21 14 | 13 42 | 4 17 | 20 23 | 3 0 | 14 24 | 1 37 | 5 27 | 3 17 | 20 56 | 0 35 | 22 6 | 0 5 | 5 51 | 0 37 | 14 41 | 0 26 | 22 5 | 0 43 | 2 46 | 2 21 | 16 21 | 7 23 | 0 49 |
| W15 | 21 3 | 15 56 | 4 45 | 20 31 | 2 52 | 13 57 | 1 36 | 5 26 | 3 19 | 20 55 | 0 34 | 22 7 | 0 5 | 5 52 | 0 37 | 14 40 | 0 26 | 22 5 | 0 43 | 2 48 | 2 22 | 16 22 | 7 23 | 0 49 |
| T 16 | 20 52 | 17 31 | 5 1 | 20 40 | 2 43 | 13 31 | 1 35 | 5 25 | 3 21 | 20 55 | 0 34 | 22 7 | 0 4 | 5 52 | 0 37 | 14 39 | 0 26 | 22 5 | 0 43 | 2 52 | 2 23 | 16 23 | 7 24 | 0 49 |
| F 17 | 20 40 | 18 21 | 5 4 | 20 48 | 2 34 | 13 4 | 1 34 | 5 24 | 3 22 | 20 55 | 0 34 | 22 8 | 0 4 | 5 53 | 0 37 | 14 39 | 0 26 | 22 5 | 0 43 | 2 56 | 2 25 | 16 24 | 7 24 | 0 49 |
| S 18 | 20 28 | 18 21 | 4 54 | 20 57 | 2 24 | 12 36 | 1 32 | 5 24 | 3 24 | 20 55 | 0 34 | 22 9 | 0 4 | 5 53 | 0 37 | 14 38 | 0 26 | 22 5 | 0 43 | 3 0 | 2 26 | 16 25 | 7 24 | 0 49 |
| S 19 | 20 15 | 17 30 | 4 30 | 21 6 | 2 14 | 12 9 | 1 31 | 5 24 | 3 26 | 20 54 | 0 33 | 22 10 | 0 4 | 5 54 | 0 37 | 14 37 | 0 26 | 22 6 | 0 43 | 3 4 | 2 27 | 16 26 | 7 25 | 0 48 |
| M20 | 20 2 | 15 49 | 3 53 | 21 15 | 2 4 | 11 41 | 1 29 | 5 24 | 3 27 | 20 54 | 0 33 | 22 10 | 0 4 | 5 54 | 0 37 | 14 37 | 0 26 | 22 6 | 0 43 | 3 8 | 2 28 | 16 27 | 7 25 | 0 48 |
| T 21 | 19 49 | 13 21 | 3 4 | 21 23 | 1 53 | 11 12 | 1 28 | 5 24 | 3 29 | 20 54 | 0 33 | 22 11 | 0 4 | 5 55 | 0 37 | 14 36 | 0 26 | 22 6 | 0 43 | 3 11 | 2 30 | 16 28 | 7 26 | 0 48 |
| W22 | 19 35 | 10 12 | 2 4 | 21 31 | 1 43 | 10 44 | 1 26 | 5 25 | 3 31 | 20 54 | 0 33 | 22 12 | 0 4 | 5 55 | 0 37 | 14 35 | 0 26 | 22 6 | 0 43 | 3 13 | 2 31 | 16 28 | 7 26 | 0 48 |
| T 23 | 19 21 | 6 31 | 0 58 | 21 39 | 1 32 | 10 15 | 1 25 | 5 25 | 3 32 | 20 54 | 0 33 | 22 13 | 0 4 | 5 56 | 0 37 | 14 34 | 0 26 | 22 6 | 0 43 | 3 14 | 2 32 | 16 29 | 7 27 | 0 48 |
| F 24 | 19 6 | 2 28 | 0s13 | 21 45 | 1 22 | 9 46 | 1 23 | 5 27 | 3 34 | 20 54 | 0 32 | 22 13 | 0 4 | 5 57 | 0 37 | 14 34 | 0 26 | 22 6 | 0 43 | 3 14 | 2 33 | 16 30 | 7 27 | 0 48 |
| S 25 | 18 52 | 1n45 | 1 25 | 21 52 | 1 11 | 9 16 | 1 21 | 5 28 | 3 36 | 20 54 | 0 32 | 22 14 | 0 3 | 5 57 | 0 36 | 14 33 | 0 26 | 22 7 | 0 43 | 3 14 | 2 35 | 16 31 | 7 28 | 0 48 |
| S 26 | 18 36 | 5 58 | 2 32 | 21 57 | 1 1 | 8 47 | 1 19 | 5 30 | 3 37 | 20 54 | 0 32 | 22 15 | 0 3 | 5 58 | 0 36 | 14 32 | 0 26 | 22 7 | 0 43 | 3 13 | 2 36 | 16 32 | 7 28 | 0 48 |
| M27 | 18 21 | 9 55 | 3 32 | 22 1 | 0 51 | 8 17 | 1 17 | 5 32 | 3 39 | 20 54 | 0 32 | 22 15 | 0 3 | 5 59 | 0 36 | 14 32 | 0 26 | 22 7 | 0 43 | 3 13 | 2 37 | 16 33 | 7 29 | 0 48 |
| T 28 | 18 5 | 13 22 | 4 21 | 22 5 | 0 41 | 7 47 | 1 15 | 5 34 | 3 40 | 20 54 | 0 31 | 22 16 | 0 3 | 5 59 | 0 36 | 14 31 | 0 26 | 22 7 | 0 42 | 3 13 | 2 38 | 16 34 | 7 29 | 0 47 |
| W29 | 17 49 | 16 4 | 4 54 | 22 8 | 0 32 | 7 17 | 1 13 | 5 37 | 3 42 | 20 54 | 0 31 | 22 17 | 0 3 | 6 0 | 0 36 | 14 30 | 0 26 | 22 7 | 0 42 | 3 14 | 2 40 | 16 34 | 7 30 | 0 47 |
| T 30 | 17 32 | 17 48 | 5 9 | 22 9 | 0 22 | 6 46 | 1 10 | 5 39 | 3 43 | 20 55 | 0 31 | 22 18 | 0 3 | 6 1 | 0 36 | 14 29 | 0 26 | 22 8 | 0 42 | 3 16 | 2 41 | 16 35 | 7 31 | 0 47 |
| F 31 | 17s16 | 18n23 | 5s 4 | 22s10 | 0n13 | 6s16 | 1s 8 | 5n43 | 3n45 | 20n55 | 0s31 | 22n18 | 0s 3 | 6n 1 | 0s36 | 14s29 | 0s26 | 22n 8 | 0s42 | 3n18 | 2n42 | 16s36 | 7n31 | 0n47 |

Julian Day Number = 2335033.5, Delta T = 23.09 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'15, Lahiri = 19°24'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## FEBRUARY 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 47 4 | 12♒52'21 | 17♋ 9 | 18♉20 | 18♓ 1 | 24°R12 | 6♊27 | 17°R17 | 16♈45 | 22♒27 | 13°R 6 | 21°R35 | 23♍ 9 | 6♐51 | 17♈19 | S 1 |
| S 2 | 8 51 1 | 13°53'07 | 1♌38 | 19°34 | 19°14 | 24♍ 6 | 6°28 | 17♋13 | 16°47 | 22°29 | 13♋ 5 | 21♍29 | 23° 6 | 6°58 | 17°21 | S 2 |
| M 3 | 8 54 57 | 14°53'52 | 15°55 | 20°49 | 20°27 | 23°59 | 6°28 | 17° 9 | 16°49 | 22°31 | 13° 4 | 21°24 | 23° 2 | 7° 4 | 17°23 | M 3 |
| T 4 | 8 58 54 | 15°54'35 | 29°53 | 22° 6 | 21°40 | 23°52 | 6°29 | 17° 5 | 16°51 | 22°33 | 13° 3 | 21°20 | 22°59 | 7°11 | 17°25 | T 4 |
| W 5 | 9 2 50 | 16°55'17 | 13♍29 | 23°25 | 22°53 | 23°43 | 6°30 | 17° 1 | 16°53 | 22°36 | 13° 2 | 21°19 | 22°56 | 7°18 | 17°27 | W 5 |
| T 6 | 9 6 47 | 17°55'58 | 26°42 | 24°44 | 24° 5 | 23°34 | 6°32 | 16°57 | 16°55 | 22°38 | 13° 1 | 21°D18 | 22°53 | 7°25 | 17°29 | T 6 |
| F 7 | 9 10 43 | 18°56'38 | 9♎32 | 26° 5 | 25°18 | 23°24 | 6°33 | 16°53 | 16°57 | 22°40 | 13° 0 | 21°20 | 22°50 | 7°31 | 17°32 | F 7 |
| S 8 | 9 14 40 | 19°57'16 | 22° 2 | 27°28 | 26°30 | 23°14 | 6°35 | 16°49 | 16°59 | 22°43 | 12°59 | 21°21 | 22°47 | 7°38 | 17°34 | S 8 |
| S 9 | 9 18 36 | 20°57'53 | 4♏15 | 28°51 | 27°42 | 23° 2 | 6°37 | 16°46 | 17° 2 | 22°45 | 12°58 | 21°23 | 22°43 | 7°45 | 17°36 | S 9 |
| M10 | 9 22 33 | 21°58'29 | 16°16 | 0♒16 | 28°55 | 22°50 | 6°39 | 16°42 | 17° 4 | 22°47 | 12°57 | 21°24 | 22°40 | 7°51 | 17°39 | M10 |
| T 11 | 9 26 29 | 22°59'04 | 28°10 | 1°41 | 0♈ 7 | 22°37 | 6°41 | 16°39 | 17° 6 | 22°49 | 12°56 | 21°R24 | 22°37 | 7°58 | 17°41 | T 11 |
| W12 | 9 30 26 | 23°59'37 | 10♐ 2 | 3° 8 | 1°19 | 22°23 | 6°43 | 16°35 | 17° 9 | 22°52 | 12°55 | 21°23 | 22°34 | 8° 5 | 17°44 | W12 |
| T 13 | 9 34 23 | 25° 0'10 | 21°56 | 4°36 | 2°31 | 22° 9 | 6°46 | 16°32 | 17°11 | 22°54 | 12°54 | 21°20 | 22°31 | 8°12 | 17°46 | T 13 |
| F 14 | 9 38 19 | 26° 0'41 | 3♑57 | 6° 5 | 3°43 | 21°53 | 6°49 | 16°29 | 17°13 | 22°56 | 12°53 | 21°17 | 22°27 | 8°18 | 17°49 | F 14 |
| S 15 | 9 42 16 | 27° 1'10 | 16° 8 | 7°35 | 4°55 | 21°37 | 6°52 | 16°26 | 17°16 | 22°58 | 12°52 | 21°13 | 22°24 | 8°25 | 17°51 | S 15 |
| S 16 | 9 46 12 | 28° 1'38 | 28°32 | 9° 6 | 6° 6 | 21°21 | 6°55 | 16°22 | 17°18 | 23° 1 | 12°52 | 21° 9 | 22°21 | 8°32 | 17°54 | S 16 |
| M17 | 9 50 9 | 29° 2'05 | 11♒11 | 10°38 | 7°18 | 21° 3 | 6°59 | 16°19 | 17°21 | 23° 3 | 12°51 | 21° 5 | 22°18 | 8°38 | 17°57 | M17 |
| T 18 | 9 54 5 | 0♓ 2'30 | 24° 5 | 12°11 | 8°30 | 20°46 | 7° 2 | 16°17 | 17°23 | 23° 5 | 12°50 | 21° 2 | 22°15 | 8°45 | 17°59 | T 18 |
| W19 | 9 58 2 | 1° 2'53 | 7♓14 | 13°44 | 9°41 | 20°27 | 7° 6 | 16°14 | 17°26 | 23° 8 | 12°49 | 21° 1 | 22°12 | 8°52 | 18° 2 | W19 |
| T 20 | 10 1 58 | 2° 3'15 | 20°38 | 15°19 | 10°52 | 20° 8 | 7°10 | 16°11 | 17°29 | 23°10 | 12°48 | 21°D 0 | 22° 8 | 8°59 | 18° 5 | T 20 |
| F 21 | 10 5 55 | 3° 3'34 | 4♈15 | 16°55 | 12° 4 | 19°48 | 7°14 | 16° 8 | 17°31 | 23°12 | 12°48 | 21° 1 | 22° 5 | 9° 5 | 18° 8 | F 21 |
| S 22 | 10 9 52 | 4° 3'52 | 18° 2 | 18°32 | 13°15 | 19°28 | 7°18 | 16° 6 | 17°34 | 23°14 | 12°47 | 21° 2 | 22° 2 | 9°12 | 18°11 | S 22 |
| S 23 | 10 13 48 | 5° 4'08 | 1♉59 | 20°10 | 14°26 | 19° 7 | 7°23 | 16° 4 | 17°37 | 23°17 | 12°46 | 21° 3 | 21°59 | 9°19 | 18°14 | S 23 |
| M24 | 10 17 45 | 6° 4'22 | 16° 2 | 21°49 | 15°37 | 18°46 | 7°28 | 16° 1 | 17°39 | 23°19 | 12°45 | 21° 4 | 21°56 | 9°25 | 18°17 | M24 |
| T 25 | 10 21 41 | 7° 4'34 | 0♊11 | 23°29 | 16°48 | 18°24 | 7°32 | 15°59 | 17°42 | 23°21 | 12°45 | 21° 5 | 21°53 | 9°32 | 18°20 | T 25 |
| W26 | 10 25 38 | 8° 4'43 | 14°23 | 25°10 | 17°58 | 18° 2 | 7°37 | 15°57 | 17°45 | 23°23 | 12°44 | 21°R 5 | 21°49 | 9°39 | 18°23 | W26 |
| T 27 | 10 29 34 | 9° 4'51 | 28°35 | 26°52 | 19° 9 | 17°40 | 7°43 | 15°55 | 17°48 | 23°25 | 12°43 | 21° 4 | 21°46 | 9°46 | 18°26 | T 27 |
| F 28 | 10 33 31 | 10♓ 4'56 | 12♋47 | 28♒35 | 20♈19 | 17♍17 | 7♊48 | 15♋53 | 17♈51 | 23♒28 | 12♋43 | 21♍ 3 | 21♍43 | 9♐52 | 18♈29 | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 16s59 | 17n45 | 4s40 | 22s10 | 0n 4 | 5s45 | 1s 6 | 5n46 | 3n46 | 20n55 | 0s31 | 22n19 | 0s 3 | 6n 2 | 0s36 | 14s28 | 0s26 | 22n 8 | 0s42 | 3n21 | 2n43 | 16s37 | 7n32 | 0n47 |
| S 2 | 16 41 | 15 58 | 3 57 | 22 8 | 0s 5 | 5 14 | 1 3 | 5 50 | 3 48 | 20 55 | 0 30 | 22 19 | 0 3 | 6 3 | 0 36 | 14 27 | 0 26 | 22 8 | 0 42 | 3 23 | 2 45 | 16 38 | 7 32 | 0 47 |
| M 3 | 16 24 | 13 13 | 3 1 | 22 5 | 0 14 | 4 43 | 1 1 | 5 54 | 3 49 | 20 56 | 0 30 | 22 20 | 0 2 | 6 4 | 0 36 | 14 27 | 0 26 | 22 8 | 0 42 | 3 25 | 2 46 | 16 39 | 7 33 | 0 47 |
| T 4 | 16 6 | 9 45 | 1 54 | 22 1 | 0 22 | 4 12 | 0 58 | 5 58 | 3 51 | 20 56 | 0 30 | 22 21 | 0 2 | 6 5 | 0 36 | 14 26 | 0 26 | 22 8 | 0 42 | 3 26 | 2 47 | 16 40 | 7 34 | 0 47 |
| W 5 | 15 47 | 5 51 | 0 43 | 21 56 | 0 30 | 3 41 | 0 55 | 6 3 | 3 52 | 20 57 | 0 30 | 22 21 | 0 2 | 6 5 | 0 36 | 14 25 | 0 26 | 22 9 | 0 42 | 3 27 | 2 49 | 16 40 | 7 35 | 0 46 |
| T 6 | 15 29 | 1 46 | 0n29 | 21 50 | 0 38 | 3 10 | 0 53 | 6 8 | 3 53 | 20 57 | 0 30 | 22 22 | 0 2 | 6 6 | 0 36 | 14 24 | 0 26 | 22 9 | 0 42 | 3 27 | 2 50 | 16 41 | 7 35 | 0 46 |
| F 7 | 15 10 | 2s17 | 1 38 | 21 43 | 0 45 | 2 38 | 0 50 | 6 13 | 3 55 | 20 57 | 0 29 | 22 23 | 0 2 | 6 7 | 0 36 | 14 24 | 0 26 | 22 9 | 0 42 | 3 27 | 2 51 | 16 42 | 7 36 | 0 46 |
| S 8 | 14 51 | 6 7 | 2 40 | 21 34 | 0 53 | 2 7 | 0 47 | 6 18 | 3 56 | 20 58 | 0 29 | 22 23 | 0 2 | 6 8 | 0 36 | 14 23 | 0 26 | 22 9 | 0 42 | 3 26 | 2 52 | 16 43 | 7 37 | 0 46 |
| S 9 | 14 32 | 9 36 | 3 34 | 21 24 | 1 0 | 1 35 | 0 44 | 6 24 | 3 57 | 20 58 | 0 29 | 22 24 | 0 2 | 6 9 | 0 36 | 14 22 | 0 26 | 22 9 | 0 42 | 3 25 | 2 54 | 16 44 | 7 38 | 0 46 |
| M10 | 14 12 | 12 38 | 4 17 | 21 12 | 1 6 | 1 4 | 0 41 | 6 30 | 3 58 | 20 59 | 0 29 | 22 24 | 0 2 | 6 10 | 0 36 | 14 21 | 0 26 | 22 9 | 0 42 | 3 25 | 2 55 | 16 45 | 7 39 | 0 46 |
| T 11 | 13 53 | 15 6 | 4 48 | 21 0 | 1 13 | 0 32 | 0 38 | 6 36 | 3 59 | 21 0 | 0 28 | 22 25 | 0 2 | 6 11 | 0 36 | 14 21 | 0 26 | 22 10 | 0 41 | 3 25 | 2 56 | 16 45 | 7 39 | 0 46 |
| W12 | 13 33 | 16 55 | 5 7 | 20 46 | 1 19 | 0 1 | 0 35 | 6 42 | 4 0 | 21 0 | 0 28 | 22 25 | 0 1 | 6 11 | 0 36 | 14 20 | 0 26 | 22 10 | 0 41 | 3 25 | 2 57 | 16 46 | 7 40 | 0 46 |
| T 13 | 13 13 | 18 1 | 5 14 | 20 31 | 1 25 | 0n31 | 0 32 | 6 49 | 4 1 | 21 1 | 0 28 | 22 26 | 0 1 | 6 12 | 0 36 | 14 19 | 0 26 | 22 10 | 0 41 | 3 26 | 2 59 | 16 47 | 7 41 | 0 46 |
| F 14 | 12 52 | 18 19 | 5 6 | 20 14 | 1 30 | 1 3 | 0 28 | 6 56 | 4 2 | 21 2 | 0 28 | 22 26 | 0 1 | 6 13 | 0 36 | 14 18 | 0 26 | 22 10 | 0 41 | 3 28 | 3 0 | 16 48 | 7 42 | 0 45 |
| S 15 | 12 32 | 17 47 | 4 45 | 19 56 | 1 35 | 1 34 | 0 25 | 7 3 | 4 3 | 21 2 | 0 28 | 22 27 | 0 1 | 6 14 | 0 36 | 14 18 | 0 26 | 22 10 | 0 41 | 3 29 | 3 1 | 16 49 | 7 43 | 0 45 |
| S 16 | 12 11 | 16 25 | 4 10 | 19 37 | 1 40 | 2 6 | 0 22 | 7 10 | 4 4 | 21 3 | 0 27 | 22 27 | 0 1 | 6 15 | 0 36 | 14 17 | 0 26 | 22 10 | 0 41 | 3 31 | 3 2 | 16 49 | 7 44 | 0 45 |
| M17 | 11 50 | 14 13 | 3 22 | 19 16 | 1 44 | 2 37 | 0 18 | 7 18 | 4 5 | 21 4 | 0 27 | 22 28 | 0 1 | 6 16 | 0 36 | 14 16 | 0 26 | 22 11 | 0 41 | 3 32 | 3 4 | 16 50 | 7 45 | 0 45 |
| T 18 | 11 29 | 11 16 | 2 23 | 18 55 | 1 49 | 3 9 | 0 15 | 7 25 | 4 5 | 21 5 | 0 27 | 22 28 | 0 1 | 6 17 | 0 36 | 14 15 | 0 26 | 22 11 | 0 41 | 3 33 | 3 5 | 16 51 | 7 46 | 0 45 |
| W19 | 11 7 | 7 42 | 1 15 | 18 31 | 1 52 | 3 40 | 0 11 | 7 33 | 4 6 | 21 5 | 0 27 | 22 29 | 0 1 | 6 18 | 0 36 | 14 15 | 0 26 | 22 11 | 0 41 | 3 34 | 3 6 | 16 52 | 7 47 | 0 45 |
| T 20 | 10 46 | 3 41 | 0 2 | 18 7 | 1 56 | 4 11 | 0 8 | 7 41 | 4 6 | 21 6 | 0 27 | 22 29 | 0 1 | 6 19 | 0 36 | 14 14 | 0 26 | 22 11 | 0 41 | 3 34 | 3 7 | 16 53 | 7 48 | 0 45 |
| F 21 | 10 24 | 0n35 | 1s13 | 17 41 | 1 59 | 4 43 | 0 4 | 7 49 | 4 7 | 21 7 | 0 26 | 22 30 | 0 1 | 6 20 | 0 36 | 14 13 | 0 26 | 22 11 | 0 41 | 3 34 | 3 9 | 16 54 | 7 49 | 0 45 |
| S 22 | 10 2 | 4 52 | 2 24 | 17 13 | 2 2 | 5 14 | 0 1 | 7 58 | 4 7 | 21 8 | 0 26 | 22 30 | 0 0 | 6 21 | 0 36 | 14 13 | 0 26 | 22 11 | 0 41 | 3 34 | 3 10 | 16 54 | 7 50 | 0 45 |
| S 23 | 9 40 | 8 56 | 3 27 | 16 45 | 2 4 | 5 45 | 0n 3 | 8 6 | 4 7 | 21 9 | 0 26 | 22 30 | 0 0 | 6 22 | 0 36 | 14 12 | 0 26 | 22 11 | 0 41 | 3 33 | 3 11 | 16 55 | 7 51 | 0 44 |
| M24 | 9 18 | 12 31 | 4 19 | 16 15 | 2 6 | 6 16 | 0 7 | 8 14 | 4 7 | 21 10 | 0 26 | 22 31 | 0 0 | 6 24 | 0 36 | 14 11 | 0 26 | 22 12 | 0 40 | 3 33 | 3 12 | 16 56 | 7 52 | 0 44 |
| T 25 | 8 56 | 15 24 | 4 56 | 15 43 | 2 7 | 6 46 | 0 11 | 8 23 | 4 7 | 21 11 | 0 26 | 22 31 | 0 0 | 6 25 | 0 36 | 14 10 | 0 26 | 22 12 | 0 40 | 3 33 | 3 14 | 16 57 | 7 53 | 0 44 |
| W26 | 8 33 | 17 22 | 5 14 | 15 10 | 2 8 | 7 17 | 0 14 | 8 32 | 4 7 | 21 12 | 0 25 | 22 31 | 0n 0 | 6 26 | 0 36 | 14 10 | 0 26 | 22 12 | 0 40 | 3 33 | 3 15 | 16 57 | 7 54 | 0 44 |
| T 27 | 8 11 | 18 15 | 5 14 | 14 36 | 2 9 | 7 47 | 0 18 | 8 40 | 4 7 | 21 13 | 0 25 | 22 32 | 0 0 | 6 27 | 0 36 | 14 9 | 0 26 | 22 12 | 0 40 | 3 33 | 3 16 | 16 58 | 7 55 | 0 44 |
| F 28 | 7s48 | 17n59 | 4s54 | 14s 0 | 2s 9 | 8n18 | 0n22 | 8n49 | 4n 7 | 21n14 | 0s25 | 22n32 | 0n 0 | 6n28 | 0s35 | 14s 8 | 0s26 | 22n12 | 0s40 | 3n33 | 3n17 | 16s59 | 7n56 | 0n44 |

Julian Day Number = 2335064.5, Delta T = 23.04 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'19, Lahiri = 19°24'20Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## MARCH 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 37 27 | 11♓ 4'59 | 26♋53 | 0♓19 | 21♈30 | 16°R54 | 7♊54 | 15°R51 | 17♈54 | 23♒30 | 12°R42 | 21°R 2 | 21♍40 | 9♐59 | 18♈32 | S 1 |
| S 2 | 10 41 24 | 12° 5'01 | 10♌52 | 2° 4 | 22°40 | 16♍31 | 7°59 | 15♋50 | 17°56 | 23°32 | 12♋42 | 21♍ 1 | 21°37 | 10° 6 | 18°35 | S 2 |
| M 3 | 10 45 21 | 13° 5'00 | 24°40 | 3°51 | 23°50 | 16° 8 | 8° 5 | 15°48 | 17°59 | 23°34 | 12°41 | 21° 0 | 21°33 | 10°12 | 18°38 | M 3 |
| T 4 | 10 49 17 | 14° 4'56 | 8♍14 | 5°38 | 25° 0 | 15°44 | 8°11 | 15°47 | 18° 2 | 23°36 | 12°41 | 20°59 | 21°30 | 10°19 | 18°42 | T 4 |
| W 5 | 10 53 14 | 15° 4'51 | 21°33 | 7°27 | 26°10 | 15°21 | 8°17 | 15°45 | 18° 5 | 23°39 | 12°40 | 20°D59 | 21°27 | 10°26 | 18°45 | W 5 |
| T 6 | 10 57 10 | 16° 4'44 | 4♎34 | 9°17 | 27°19 | 14°57 | 8°24 | 15°44 | 18° 8 | 23°41 | 12°40 | 20°59 | 21°24 | 10°33 | 18°48 | T 6 |
| F 7 | 11 1 7 | 17° 4'36 | 17°18 | 11° 8 | 28°29 | 14°33 | 8°30 | 15°43 | 18°11 | 23°43 | 12°39 | 20°59 | 21°21 | 10°39 | 18°51 | F 7 |
| S 8 | 11 5 3 | 18° 4'25 | 29°46 | 13° 0 | 29°38 | 14°10 | 8°37 | 15°42 | 18°15 | 23°45 | 12°39 | 21° 0 | 21°18 | 10°46 | 18°55 | S 8 |
| S 9 | 11 9 0 | 19° 4'13 | 12♏ 0 | 14°53 | 0♉47 | 13°46 | 8°44 | 15°41 | 18°18 | 23°47 | 12°38 | 21° 0 | 21°14 | 10°53 | 18°58 | S 9 |
| M10 | 11 12 56 | 20° 3'59 | 24° 3 | 16°47 | 1°56 | 13°23 | 8°51 | 15°40 | 18°21 | 23°49 | 12°38 | 21° 0 | 21°11 | 11° 0 | 19° 1 | M10 |
| T 11 | 11 16 53 | 21° 3'43 | 5♐59 | 18°43 | 3° 5 | 13° 0 | 8°58 | 15°39 | 18°24 | 23°51 | 12°38 | 21°R 0 | 21° 8 | 11° 6 | 19° 5 | T 11 |
| W12 | 11 20 50 | 22° 3'25 | 17°52 | 20°39 | 4°14 | 12°37 | 9° 5 | 15°39 | 18°27 | 23°53 | 12°37 | 21°D 0 | 21° 5 | 11°13 | 19° 8 | W12 |
| T 13 | 11 24 46 | 23° 3'06 | 29°46 | 22°37 | 5°23 | 12°14 | 9°13 | 15°38 | 18°30 | 23°55 | 12°37 | 21° 0 | 21° 2 | 11°20 | 19°12 | T 13 |
| F 14 | 11 28 43 | 24° 2'45 | 11♑47 | 24°35 | 6°31 | 11°52 | 9°20 | 15°38 | 18°33 | 23°57 | 12°37 | 21° 0 | 20°58 | 11°26 | 19°15 | F 14 |
| S 15 | 11 32 39 | 25° 2'22 | 23°59 | 26°35 | 7°39 | 11°29 | 9°28 | 15°38 | 18°37 | 24° 0 | 12°36 | 21° 1 | 20°55 | 11°33 | 19°19 | S 15 |
| S 16 | 11 36 36 | 26° 1'57 | 6♒26 | 28°35 | 8°47 | 11° 8 | 9°36 | 15°38 | 18°40 | 24° 2 | 12°36 | 21° 1 | 20°52 | 11°40 | 19°22 | S 16 |
| M17 | 11 40 32 | 27° 1'31 | 19°10 | 0♈35 | 9°55 | 10°46 | 9°44 | 15°D38 | 18°43 | 24° 4 | 12°36 | 21° 2 | 20°49 | 11°47 | 19°26 | M17 |
| T 18 | 11 44 29 | 28° 1'02 | 2♓15 | 2°36 | 11° 3 | 10°25 | 9°52 | 15°38 | 18°46 | 24° 5 | 12°36 | 21° 2 | 20°46 | 11°53 | 19°29 | T 18 |
| W19 | 11 48 25 | 29° 0'32 | 15°41 | 4°38 | 12°10 | 10° 5 | 10° 0 | 15°38 | 18°50 | 24° 7 | 12°35 | 21°R 3 | 20°43 | 12° 0 | 19°33 | W19 |
| T 20 | 11 52 22 | 0♈ 0'00 | 29°27 | 6°39 | 13°18 | 9°45 | 10° 8 | 15°38 | 18°53 | 24° 9 | 12°35 | 21° 3 | 20°39 | 12° 7 | 19°36 | T 20 |
| F 21 | 11 56 18 | 0°59'25 | 13♈30 | 8°41 | 14°25 | 9°26 | 10°17 | 15°39 | 18°56 | 24°11 | 12°35 | 21° 2 | 20°36 | 12°13 | 19°40 | F 21 |
| S 22 | 12 0 15 | 1°58'49 | 27°46 | 10°42 | 15°32 | 9° 7 | 10°26 | 15°39 | 18°59 | 24°13 | 12°35 | 21° 1 | 20°33 | 12°20 | 19°44 | S 22 |
| S 23 | 12 4 12 | 2°58'10 | 12♉11 | 12°42 | 16°39 | 8°49 | 10°34 | 15°40 | 19° 3 | 24°15 | 12°35 | 21° 0 | 20°30 | 12°27 | 19°47 | S 23 |
| M24 | 12 8 8 | 3°57'29 | 26°39 | 14°41 | 17°45 | 8°32 | 10°43 | 15°41 | 19° 6 | 24°17 | 12°35 | 20°58 | 20°27 | 12°34 | 19°51 | M24 |
| T 25 | 12 12 5 | 4°56'46 | 11♊ 5 | 16°39 | 18°52 | 8°15 | 10°52 | 15°41 | 19°10 | 24°19 | 12°35 | 20°57 | 20°24 | 12°40 | 19°55 | T 25 |
| W26 | 12 16 1 | 5°56'01 | 25°24 | 18°34 | 19°58 | 7°59 | 11° 1 | 15°42 | 19°13 | 24°21 | 12°D35 | 20°56 | 20°20 | 12°47 | 19°58 | W26 |
| T 27 | 12 19 58 | 6°55'13 | 9♋35 | 20°28 | 21° 4 | 7°43 | 11°11 | 15°43 | 19°16 | 24°22 | 12°35 | 20°D56 | 20°17 | 12°54 | 20° 2 | T 27 |
| F 28 | 12 23 54 | 7°54'23 | 23°34 | 22°19 | 22° 9 | 7°28 | 11°20 | 15°45 | 19°20 | 24°24 | 12°35 | 20°56 | 20°14 | 13° 1 | 20° 6 | F 28 |
| S 29 | 12 27 51 | 8°53'30 | 7♌20 | 24° 7 | 23°15 | 7°15 | 11°29 | 15°46 | 19°23 | 24°26 | 12°35 | 20°57 | 20°11 | 13° 7 | 20° 9 | S 29 |
| S 30 | 12 31 47 | 9°52'35 | 20°54 | 25°52 | 24°20 | 7° 1 | 11°39 | 15°47 | 19°26 | 24°28 | 12°35 | 20°59 | 20° 8 | 13°14 | 20°13 | S 30 |
| M31 | 12 35 44 | 10♈51'38 | 4♍15 | 27♈32 | 25♉25 | 6♍49 | 11♊49 | 15♋49 | 19♈30 | 24♒29 | 12♋35 | 21♍ 0 | 20♍ 4 | 13♐21 | 20♈17 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s25 | 16n37 | 4s17 | 13s24 | 2s 9 | 8n48 | 0n26 | 8n58 | 4n 6 | 21n15 | 0s25 | 22n32 | 0n 0 | 6n29 | 0s35 | 14s 8 | 0s26 | 22n12 | 0s40 | 3n34 | 3n19 | 17s 0 | 7n57 | 0n44 |
| S 2 | 7 2 | 14 15 | 3 24 | 12 45 | 2 9 | 9 18 | 0 30 | 9 6 | 4 6 | 21 16 | 0 25 | 22 33 | 0 0 | 6 30 | 0 35 | 14 7 | 0 27 | 22 12 | 0 40 | 3 34 | 3 20 | 17 1 | 7 58 | 0 44 |
| M 3 | 6 39 | 11 6 | 2 21 | 12 6 | 2 8 | 9 47 | 0 34 | 9 15 | 4 5 | 21 17 | 0 24 | 22 33 | 0 1 | 6 31 | 0 35 | 14 6 | 0 27 | 22 13 | 0 40 | 3 35 | 3 21 | 17 1 | 7 59 | 0 44 |
| T 4 | 6 16 | 7 25 | 1 10 | 11 25 | 2 6 | 10 17 | 0 38 | 9 23 | 4 5 | 21 19 | 0 24 | 22 33 | 0 1 | 6 33 | 0 35 | 14 5 | 0 27 | 22 13 | 0 40 | 3 35 | 3 22 | 17 2 | 8 0 | 0 44 |
| W 5 | 5 53 | 3 24 | 0n 3 | 10 42 | 2 4 | 10 46 | 0 42 | 9 32 | 4 4 | 21 20 | 0 24 | 22 34 | 0 1 | 6 34 | 0 35 | 14 5 | 0 27 | 22 13 | 0 40 | 3 35 | 3 24 | 17 3 | 8 2 | 0 43 |
| T 6 | 5 30 | 0s41 | 1 15 | 9 59 | 2 1 | 11 15 | 0 46 | 9 40 | 4 3 | 21 21 | 0 24 | 22 34 | 0 1 | 6 35 | 0 35 | 14 4 | 0 27 | 22 13 | 0 40 | 3 35 | 3 25 | 17 4 | 8 3 | 0 43 |
| F 7 | 5 7 | 4 38 | 2 21 | 9 14 | 1 58 | 11 44 | 0 50 | 9 49 | 4 2 | 21 22 | 0 24 | 22 34 | 0 1 | 6 36 | 0 35 | 14 3 | 0 27 | 22 13 | 0 40 | 3 35 | 3 26 | 17 4 | 8 4 | 0 43 |
| S 8 | 4 43 | 8 18 | 3 19 | 8 28 | 1 55 | 12 12 | 0 54 | 9 57 | 4 1 | 21 23 | 0 23 | 22 34 | 0 1 | 6 37 | 0 35 | 14 3 | 0 27 | 22 13 | 0 40 | 3 34 | 3 27 | 17 5 | 8 5 | 0 43 |
| S 9 | 4 20 | 11 33 | 4 7 | 7 40 | 1 51 | 12 41 | 0 58 | 10 5 | 4 0 | 21 25 | 0 23 | 22 34 | 0 1 | 6 38 | 0 35 | 14 2 | 0 27 | 22 13 | 0 39 | 3 34 | 3 29 | 17 6 | 8 6 | 0 43 |
| M10 | 3 56 | 14 15 | 4 43 | 6 51 | 1 46 | 13 8 | 1 2 | 10 13 | 3 59 | 21 26 | 0 23 | 22 35 | 0 1 | 6 40 | 0 35 | 14 1 | 0 27 | 22 13 | 0 39 | 3 34 | 3 30 | 17 7 | 8 7 | 0 43 |
| T 11 | 3 33 | 16 19 | 5 6 | 6 1 | 1 41 | 13 36 | 1 6 | 10 20 | 3 57 | 21 27 | 0 23 | 22 35 | 0 1 | 6 41 | 0 35 | 14 1 | 0 27 | 22 14 | 0 39 | 3 34 | 3 31 | 17 7 | 8 9 | 0 43 |
| W12 | 3 9 | 17 40 | 5 17 | 5 10 | 1 35 | 14 3 | 1 11 | 10 28 | 3 56 | 21 28 | 0 23 | 22 35 | 0 1 | 6 42 | 0 35 | 14 0 | 0 27 | 22 14 | 0 39 | 3 34 | 3 32 | 17 8 | 8 10 | 0 43 |
| T 13 | 2 46 | 18 15 | 5 14 | 4 18 | 1 29 | 14 30 | 1 15 | 10 35 | 3 54 | 21 30 | 0 23 | 22 35 | 0 2 | 6 43 | 0 35 | 13 59 | 0 27 | 22 14 | 0 39 | 3 34 | 3 34 | 17 9 | 8 11 | 0 43 |
| F 14 | 2 22 | 18 2 | 4 57 | 3 25 | 1 23 | 14 57 | 1 19 | 10 43 | 3 53 | 21 31 | 0 22 | 22 35 | 0 2 | 6 44 | 0 35 | 13 59 | 0 27 | 22 14 | 0 39 | 3 34 | 3 35 | 17 10 | 8 12 | 0 43 |
| S 15 | 1 58 | 16 58 | 4 26 | 2 31 | 1 15 | 15 24 | 1 23 | 10 50 | 3 51 | 21 32 | 0 22 | 22 35 | 0 2 | 6 46 | 0 35 | 13 58 | 0 27 | 22 14 | 0 39 | 3 34 | 3 36 | 17 10 | 8 14 | 0 43 |
| S 16 | 1 35 | 15 6 | 3 43 | 1 36 | 1 7 | 15 50 | 1 27 | 10 56 | 3 49 | 21 34 | 0 22 | 22 36 | 0 2 | 6 47 | 0 35 | 13 57 | 0 27 | 22 14 | 0 39 | 3 34 | 3 37 | 17 11 | 8 15 | 0 42 |
| M17 | 1 11 | 12 26 | 2 48 | 0 40 | 0 59 | 16 15 | 1 31 | 11 3 | 3 48 | 21 35 | 0 22 | 22 36 | 0 2 | 6 48 | 0 35 | 13 57 | 0 27 | 22 14 | 0 39 | 3 34 | 3 39 | 17 12 | 8 16 | 0 42 |
| T 18 | 0 47 | 9 6 | 1 42 | 0n16 | 0 50 | 16 40 | 1 35 | 11 9 | 3 46 | 21 36 | 0 22 | 22 36 | 0 2 | 6 49 | 0 35 | 13 56 | 0 27 | 22 14 | 0 39 | 3 33 | 3 40 | 17 13 | 8 17 | 0 42 |
| W19 | 0 24 | 5 12 | 0 30 | 1 13 | 0 41 | 17 5 | 1 39 | 11 15 | 3 44 | 21 38 | 0 22 | 22 36 | 0 2 | 6 51 | 0 35 | 13 55 | 0 27 | 22 14 | 0 39 | 3 33 | 3 41 | 17 13 | 8 19 | 0 42 |
| T 20 | 0n 0 | 0 56 | 0s46 | 2 11 | 0 31 | 17 30 | 1 43 | 11 21 | 3 42 | 21 39 | 0 21 | 22 36 | 0 2 | 6 52 | 0 35 | 13 55 | 0 27 | 22 14 | 0 39 | 3 33 | 3 43 | 17 14 | 8 20 | 0 42 |
| F 21 | 0 24 | 3n28 | 2 1 | 3 8 | 0 20 | 17 54 | 1 47 | 11 26 | 3 39 | 21 41 | 0 21 | 22 36 | 0 2 | 6 53 | 0 35 | 13 54 | 0 27 | 22 15 | 0 39 | 3 34 | 3 44 | 17 15 | 8 21 | 0 42 |
| S 22 | 0 47 | 7 45 | 3 10 | 4 5 | 0 10 | 18 18 | 1 51 | 11 31 | 3 37 | 21 42 | 0 21 | 22 36 | 0 2 | 6 55 | 0 35 | 13 54 | 0 27 | 22 15 | 0 38 | 3 34 | 3 45 | 17 16 | 8 22 | 0 42 |
| S 23 | 1 11 | 11 36 | 4 7 | 5 3 | 0n 1 | 18 41 | 1 55 | 11 36 | 3 35 | 21 43 | 0 21 | 22 36 | 0 3 | 6 56 | 0 35 | 13 53 | 0 27 | 22 15 | 0 38 | 3 35 | 3 46 | 17 16 | 8 24 | 0 42 |
| M24 | 1 35 | 14 46 | 4 48 | 5 59 | 0 13 | 19 4 | 1 59 | 11 40 | 3 33 | 21 45 | 0 21 | 22 36 | 0 3 | 6 57 | 0 35 | 13 52 | 0 27 | 22 15 | 0 38 | 3 35 | 3 48 | 17 17 | 8 25 | 0 42 |
| T 25 | 1 58 | 17 0 | 5 11 | 6 56 | 0 24 | 19 26 | 2 3 | 11 45 | 3 30 | 21 46 | 0 21 | 22 36 | 0 3 | 6 58 | 0 35 | 13 52 | 0 27 | 22 15 | 0 38 | 3 36 | 3 49 | 17 18 | 8 26 | 0 42 |
| W26 | 2 22 | 18 9 | 5 15 | 7 51 | 0 36 | 19 48 | 2 7 | 11 48 | 3 28 | 21 48 | 0 20 | 22 36 | 0 3 | 7 0 | 0 35 | 13 51 | 0 27 | 22 15 | 0 38 | 3 36 | 3 50 | 17 18 | 8 28 | 0 42 |
| T 27 | 2 45 | 18 9 | 5 0 | 8 45 | 0 48 | 20 10 | 2 11 | 11 52 | 3 26 | 21 49 | 0 20 | 22 36 | 0 3 | 7 1 | 0 35 | 13 51 | 0 27 | 22 15 | 0 38 | 3 36 | 3 51 | 17 19 | 8 29 | 0 41 |
| F 28 | 3 8 | 17 3 | 4 26 | 9 37 | 1 0 | 20 31 | 2 15 | 11 55 | 3 23 | 21 51 | 0 20 | 22 36 | 0 3 | 7 2 | 0 35 | 13 50 | 0 27 | 22 15 | 0 38 | 3 36 | 3 53 | 17 20 | 8 30 | 0 41 |
| S 29 | 3 32 | 14 57 | 3 38 | 10 28 | 1 11 | 20 51 | 2 19 | 11 58 | 3 21 | 21 52 | 0 20 | 22 36 | 0 3 | 7 4 | 0 35 | 13 49 | 0 27 | 22 15 | 0 38 | 3 35 | 3 54 | 17 21 | 8 32 | 0 41 |
| S 30 | 3 55 | 12 3 | 2 39 | 11 18 | 1 23 | 21 11 | 2 23 | 12 1 | 3 18 | 21 54 | 0 20 | 22 36 | 0 3 | 7 5 | 0 35 | 13 49 | 0 27 | 22 15 | 0 38 | 3 35 | 3 55 | 17 21 | 8 33 | 0 41 |
| M31 | 4n18 | 8n33 | 1s31 | 12n 5 | 1n34 | 21n31 | 2n27 | 12n 3 | 3n16 | 21n55 | 0s20 | 22n36 | 0n 3 | 7n 6 | 0s35 | 13s48 | 0s27 | 22n15 | 0s38 | 3n34 | 3n56 | 17s22 | 8n34 | 0n41 |

Julian Day Number = 2335092.5, Delta T = 23.00 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'23, Lahiri = 19°24'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## APRIL 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 39 41 | 11♈50'38 | 17♍23 | 29♈ 9 | 26♉30 | 6°R37 | 11♊59 | 15♋51 | 19♈33 | 24♒31 | 12♋35 | 21°R 1 | 20♍ 1 | 13♐27 | 20♈20 | T 1 |
| W 2 | 12 43 37 | 12°49'37 | 0♎19 | 0♉41 | 27°34 | 6♍26 | 12° 9 | 15°52 | 19°37 | 24°33 | 12°36 | 21♍ 0 | 19°58 | 13°34 | 20°24 | W 2 |
| T 3 | 12 47 34 | 13°48'33 | 13° 2 | 2° 9 | 28°38 | 6°16 | 12°19 | 15°54 | 19°40 | 24°34 | 12°36 | 20°59 | 19°55 | 13°41 | 20°28 | T 3 |
| F 4 | 12 51 30 | 14°47'27 | 25°33 | 3°32 | 29°42 | 6° 7 | 12°29 | 15°56 | 19°44 | 24°36 | 12°36 | 20°56 | 19°52 | 13°48 | 20°32 | F 4 |
| S 5 | 12 55 27 | 15°46'19 | 7♏52 | 4°49 | 0♊45 | 5°58 | 12°39 | 15°58 | 19°47 | 24°38 | 12°36 | 20°53 | 19°49 | 13°54 | 20°35 | S 5 |
| S 6 | 12 59 23 | 16°45'10 | 20° 2 | 6° 1 | 1°49 | 5°50 | 12°49 | 16° 0 | 19°50 | 24°39 | 12°36 | 20°48 | 19°45 | 14° 1 | 20°39 | S 6 |
| M 7 | 13 3 20 | 17°43'58 | 2♐ 3 | 7° 8 | 2°52 | 5°43 | 13° 0 | 16° 3 | 19°54 | 24°41 | 12°37 | 20°44 | 19°42 | 14° 8 | 20°43 | M 7 |
| T 8 | 13 7 16 | 18°42'45 | 13°58 | 8° 9 | 3°54 | 5°37 | 13°10 | 16° 5 | 19°57 | 24°42 | 12°37 | 20°40 | 19°39 | 14°14 | 20°47 | T 8 |
| W 9 | 13 11 13 | 19°41'30 | 25°51 | 9° 4 | 4°56 | 5°32 | 13°21 | 16° 7 | 20° 1 | 24°44 | 12°37 | 20°36 | 19°36 | 14°21 | 20°50 | W 9 |
| T 10 | 13 15 10 | 20°40'13 | 7♑44 | 9°53 | 5°58 | 5°27 | 13°32 | 16°10 | 20° 4 | 24°45 | 12°38 | 20°34 | 19°33 | 14°28 | 20°54 | T 10 |
| F 11 | 13 19 6 | 21°38'54 | 19°44 | 10°36 | 7° 0 | 5°23 | 13°42 | 16°13 | 20° 8 | 24°47 | 12°38 | 20°D33 | 19°30 | 14°35 | 20°58 | F 11 |
| S 12 | 13 23 3 | 22°37'34 | 1♒54 | 11°13 | 8° 1 | 5°20 | 13°53 | 16°15 | 20°11 | 24°48 | 12°39 | 20°34 | 19°26 | 14°41 | 21° 2 | S 12 |
| S 13 | 13 26 59 | 23°36'12 | 14°18 | 11°43 | 9° 2 | 5°18 | 14° 4 | 16°18 | 20°14 | 24°50 | 12°39 | 20°35 | 19°23 | 14°48 | 21° 6 | S 13 |
| M14 | 13 30 56 | 24°34'49 | 27° 2 | 12° 8 | 10° 3 | 5°16 | 14°15 | 16°21 | 20°18 | 24°51 | 12°39 | 20°37 | 19°20 | 14°55 | 21° 9 | M14 |
| T 15 | 13 34 52 | 25°33'23 | 10♓ 9 | 12°27 | 11° 3 | 5°15 | 14°26 | 16°24 | 20°21 | 24°52 | 12°40 | 20°38 | 19°17 | 15° 2 | 21°13 | T 15 |
| W16 | 13 38 49 | 26°31'56 | 23°42 | 12°39 | 12° 3 | 5°D15 | 14°38 | 16°27 | 20°25 | 24°54 | 12°40 | 20°R38 | 19°14 | 15° 8 | 21°17 | W16 |
| T 17 | 13 42 45 | 27°30'27 | 7♈40 | 12°46 | 13° 2 | 5°16 | 14°49 | 16°31 | 20°28 | 24°55 | 12°41 | 20°37 | 19°10 | 15°15 | 21°21 | T 17 |
| F 18 | 13 46 42 | 28°28'57 | 22° 2 | 12°R47 | 14° 1 | 5°17 | 15° 0 | 16°34 | 20°32 | 24°56 | 12°41 | 20°34 | 19° 7 | 15°22 | 21°24 | F 18 |
| S 19 | 13 50 38 | 29°27'24 | 6♉42 | 12°42 | 15° 0 | 5°19 | 15°12 | 16°37 | 20°35 | 24°57 | 12°42 | 20°30 | 19° 4 | 15°28 | 21°28 | S 19 |
| S 20 | 13 54 35 | 0♉25'50 | 21°34 | 12°31 | 15°58 | 5°22 | 15°24 | 16°41 | 20°38 | 24°59 | 12°43 | 20°24 | 19° 1 | 15°35 | 21°32 | S 20 |
| M21 | 13 58 32 | 1°24'14 | 6♊28 | 12°16 | 16°56 | 5°25 | 15°35 | 16°45 | 20°42 | 25° 0 | 12°43 | 20°18 | 18°58 | 15°42 | 21°36 | M21 |
| T 22 | 14 2 28 | 2°22'35 | 21°18 | 11°56 | 17°53 | 5°30 | 15°47 | 16°48 | 20°45 | 25° 1 | 12°44 | 20°12 | 18°55 | 15°49 | 21°39 | T 22 |
| W23 | 14 6 25 | 3°20'55 | 5♋55 | 11°32 | 18°49 | 5°35 | 15°59 | 16°52 | 20°49 | 25° 2 | 12°44 | 20° 8 | 18°51 | 15°55 | 21°43 | W23 |
| T 24 | 14 10 21 | 4°19'13 | 20°14 | 11° 3 | 19°46 | 5°40 | 16°11 | 16°56 | 20°52 | 25° 3 | 12°45 | 20° 5 | 18°48 | 16° 2 | 21°47 | T 24 |
| F 25 | 14 14 18 | 5°17'28 | 4♌13 | 10°32 | 20°41 | 5°47 | 16°22 | 17° 0 | 20°55 | 25° 4 | 12°46 | 20°D 4 | 18°45 | 16° 9 | 21°50 | F 25 |
| S 26 | 14 18 14 | 6°15'41 | 17°52 | 9°58 | 21°36 | 5°54 | 16°34 | 17° 4 | 20°59 | 25° 5 | 12°47 | 20° 5 | 18°42 | 16°15 | 21°54 | S 26 |
| S 27 | 14 22 11 | 7°13'53 | 1♍12 | 9°22 | 22°31 | 6° 1 | 16°47 | 17° 8 | 21° 2 | 25° 6 | 12°47 | 20° 6 | 18°39 | 16°22 | 21°58 | S 27 |
| M28 | 14 26 7 | 8°12'02 | 14°15 | 8°44 | 23°25 | 6° 9 | 16°59 | 17°13 | 21° 5 | 25° 7 | 12°48 | 20°R 7 | 18°35 | 16°29 | 22° 1 | M28 |
| T 29 | 14 30 4 | 9°10'09 | 27° 3 | 8° 6 | 24°18 | 6°18 | 17°11 | 17°17 | 21° 9 | 25° 8 | 12°49 | 20° 7 | 18°32 | 16°36 | 22° 5 | T 29 |
| W30 | 14 34 1 | 10♉ 8'14 | 9♎39 | 7♉28 | 25♊11 | 6♍28 | 17♊23 | 17♋21 | 21♈12 | 25♒ 9 | 12♋50 | 20♍ 5 | 18♍29 | 16♐42 | 22♈ 9 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n41 | 4n41 | 0s20 | 12n50 | 1n45 | 21n50 | 2n30 | 12n 5 | 3n13 | 21n56 | 0s19 | 22n36 | 0n 3 | 7n 7 | 0s35 | 13s48 | 0s27 | 22n15 | 0s38 | 3n34 | 3n58 | 17s23 | 8n36 | 0n41 |
| W 2 | 5 4 | 0 39 | 0n51 | 13 32 | 1 56 | 22 9 | 2 34 | 12 7 | 3 11 | 21 58 | 0 19 | 22 35 | 0 3 | 7 9 | 0 35 | 13 47 | 0 27 | 22 15 | 0 38 | 3 34 | 3 59 | 17 23 | 8 37 | 0 41 |
| T 3 | 5 27 | 3s20 | 1 58 | 14 12 | 2 6 | 22 27 | 2 38 | 12 8 | 3 8 | 21 59 | 0 19 | 22 35 | 0 4 | 7 10 | 0 35 | 13 47 | 0 27 | 22 15 | 0 38 | 3 35 | 4 0 | 17 24 | 8 38 | 0 41 |
| F 4 | 5 50 | 7 7 | 2 59 | 14 49 | 2 15 | 22 44 | 2 41 | 12 9 | 3 5 | 22 1 | 0 19 | 22 35 | 0 4 | 7 11 | 0 35 | 13 46 | 0 27 | 22 16 | 0 37 | 3 36 | 4 1 | 17 25 | 8 40 | 0 41 |
| S 5 | 6 13 | 10 32 | 3 50 | 15 24 | 2 24 | 23 1 | 2 45 | 12 10 | 3 3 | 22 2 | 0 19 | 22 35 | 0 4 | 7 13 | 0 35 | 13 46 | 0 27 | 22 16 | 0 37 | 3 37 | 4 3 | 17 25 | 8 41 | 0 41 |
| S 6 | 6 36 | 13 27 | 4 29 | 15 56 | 2 31 | 23 18 | 2 48 | 12 11 | 3 0 | 22 4 | 0 19 | 22 35 | 0 4 | 7 14 | 0 35 | 13 45 | 0 27 | 22 16 | 0 37 | 3 39 | 4 4 | 17 26 | 8 42 | 0 41 |
| M 7 | 6 58 | 15 46 | 4 57 | 16 25 | 2 38 | 23 34 | 2 51 | 12 11 | 2 58 | 22 5 | 0 19 | 22 35 | 0 4 | 7 15 | 0 35 | 13 45 | 0 27 | 22 16 | 0 37 | 3 41 | 4 5 | 17 27 | 8 44 | 0 41 |
| T 8 | 7 21 | 17 22 | 5 11 | 16 50 | 2 45 | 23 49 | 2 55 | 12 11 | 2 55 | 22 7 | 0 18 | 22 34 | 0 4 | 7 17 | 0 35 | 13 44 | 0 27 | 22 16 | 0 37 | 3 42 | 4 6 | 17 27 | 8 45 | 0 41 |
| W 9 | 7 43 | 18 13 | 5 12 | 17 13 | 2 50 | 24 4 | 2 58 | 12 10 | 2 52 | 22 8 | 0 18 | 22 34 | 0 4 | 7 18 | 0 35 | 13 44 | 0 27 | 22 16 | 0 37 | 3 44 | 4 8 | 17 28 | 8 46 | 0 40 |
| T 10 | 8 5 | 18 17 | 4 59 | 17 33 | 2 54 | 24 18 | 3 1 | 12 9 | 2 50 | 22 10 | 0 18 | 22 34 | 0 4 | 7 19 | 0 35 | 13 43 | 0 27 | 22 16 | 0 37 | 3 45 | 4 9 | 17 29 | 8 48 | 0 40 |
| F 11 | 8 27 | 17 31 | 4 33 | 17 50 | 2 57 | 24 32 | 3 4 | 12 8 | 2 47 | 22 11 | 0 18 | 22 34 | 0 4 | 7 20 | 0 35 | 13 43 | 0 27 | 22 16 | 0 37 | 3 45 | 4 10 | 17 29 | 8 49 | 0 40 |
| S 12 | 8 49 | 15 57 | 3 55 | 18 3 | 2 59 | 24 45 | 3 7 | 12 7 | 2 44 | 22 13 | 0 18 | 22 34 | 0 4 | 7 22 | 0 35 | 13 42 | 0 27 | 22 16 | 0 37 | 3 45 | 4 11 | 17 30 | 8 50 | 0 40 |
| S 13 | 9 11 | 13 36 | 3 5 | 18 14 | 3 0 | 24 58 | 3 10 | 12 6 | 2 42 | 22 14 | 0 18 | 22 33 | 0 4 | 7 23 | 0 35 | 13 42 | 0 27 | 22 16 | 0 37 | 3 44 | 4 12 | 17 31 | 8 52 | 0 40 |
| M14 | 9 32 | 10 33 | 2 5 | 18 21 | 2 59 | 25 10 | 3 13 | 12 4 | 2 39 | 22 15 | 0 18 | 22 33 | 0 5 | 7 24 | 0 35 | 13 41 | 0 27 | 22 16 | 0 37 | 3 44 | 4 14 | 17 31 | 8 53 | 0 40 |
| T 15 | 9 54 | 6 54 | 0 57 | 18 25 | 2 58 | 25 22 | 3 15 | 12 2 | 2 37 | 22 17 | 0 17 | 22 33 | 0 5 | 7 26 | 0 35 | 13 41 | 0 27 | 22 16 | 0 37 | 3 43 | 4 15 | 17 32 | 8 54 | 0 40 |
| W16 | 10 15 | 2 46 | 0s17 | 18 26 | 2 55 | 25 33 | 3 18 | 11 59 | 2 34 | 22 18 | 0 17 | 22 32 | 0 5 | 7 27 | 0 35 | 13 41 | 0 27 | 22 16 | 0 37 | 3 43 | 4 16 | 17 33 | 8 56 | 0 40 |
| T 17 | 10 36 | 1n39 | 1 31 | 18 24 | 2 50 | 25 43 | 3 20 | 11 57 | 2 32 | 22 20 | 0 17 | 22 32 | 0 5 | 7 28 | 0 35 | 13 40 | 0 27 | 22 16 | 0 36 | 3 43 | 4 17 | 17 33 | 8 57 | 0 40 |
| F 18 | 10 57 | 6 5 | 2 42 | 18 19 | 2 45 | 25 53 | 3 23 | 11 54 | 2 29 | 22 21 | 0 17 | 22 32 | 0 5 | 7 30 | 0 35 | 13 40 | 0 27 | 22 16 | 0 36 | 3 45 | 4 19 | 17 34 | 8 59 | 0 40 |
| S 19 | 11 18 | 10 15 | 3 44 | 18 10 | 2 37 | 26 2 | 3 25 | 11 51 | 2 26 | 22 23 | 0 17 | 22 31 | 0 5 | 7 31 | 0 35 | 13 39 | 0 27 | 22 16 | 0 36 | 3 46 | 4 20 | 17 35 | 9 0 | 0 40 |
| S 20 | 11 38 | 13 49 | 4 31 | 17 59 | 2 29 | 26 10 | 3 27 | 11 47 | 2 24 | 22 24 | 0 17 | 22 31 | 0 5 | 7 32 | 0 35 | 13 39 | 0 27 | 22 16 | 0 36 | 3 49 | 4 21 | 17 35 | 9 1 | 0 40 |
| M21 | 11 59 | 16 29 | 5 0 | 17 45 | 2 19 | 26 19 | 3 29 | 11 44 | 2 21 | 22 25 | 0 17 | 22 31 | 0 5 | 7 33 | 0 35 | 13 39 | 0 28 | 22 16 | 0 36 | 3 51 | 4 22 | 17 36 | 9 3 | 0 40 |
| T 22 | 12 19 | 18 3 | 5 9 | 17 29 | 2 8 | 26 26 | 3 31 | 11 40 | 2 19 | 22 27 | 0 16 | 22 30 | 0 5 | 7 35 | 0 35 | 13 38 | 0 28 | 22 16 | 0 36 | 3 53 | 4 24 | 17 37 | 9 4 | 0 40 |
| W23 | 12 39 | 18 23 | 4 58 | 17 9 | 1 56 | 26 33 | 3 33 | 11 36 | 2 16 | 22 28 | 0 16 | 22 30 | 0 5 | 7 36 | 0 35 | 13 38 | 0 28 | 22 16 | 0 36 | 3 55 | 4 25 | 17 37 | 9 5 | 0 39 |
| T 24 | 12 59 | 17 32 | 4 28 | 16 48 | 1 43 | 26 39 | 3 35 | 11 31 | 2 14 | 22 29 | 0 16 | 22 30 | 0 5 | 7 37 | 0 35 | 13 37 | 0 28 | 22 16 | 0 36 | 3 56 | 4 26 | 17 38 | 9 7 | 0 39 |
| F 25 | 13 18 | 15 38 | 3 42 | 16 24 | 1 29 | 26 45 | 3 37 | 11 27 | 2 12 | 22 31 | 0 16 | 22 29 | 0 5 | 7 38 | 0 35 | 13 37 | 0 28 | 22 16 | 0 36 | 3 56 | 4 27 | 17 39 | 9 8 | 0 39 |
| S 26 | 13 38 | 12 53 | 2 45 | 15 59 | 1 13 | 26 50 | 3 38 | 11 22 | 2 9 | 22 32 | 0 16 | 22 29 | 0 6 | 7 40 | 0 35 | 13 37 | 0 28 | 22 16 | 0 36 | 3 56 | 4 29 | 17 39 | 9 9 | 0 39 |
| S 27 | 13 57 | 9 30 | 1 40 | 15 33 | 0 57 | 26 55 | 3 39 | 11 17 | 2 7 | 22 33 | 0 16 | 22 28 | 0 6 | 7 41 | 0 35 | 13 37 | 0 28 | 22 16 | 0 36 | 3 56 | 4 30 | 17 40 | 9 10 | 0 39 |
| M28 | 14 16 | 5 43 | 0 32 | 15 5 | 0 41 | 26 59 | 3 40 | 11 12 | 2 4 | 22 35 | 0 16 | 22 28 | 0 6 | 7 42 | 0 35 | 13 36 | 0 28 | 22 16 | 0 36 | 3 55 | 4 31 | 17 40 | 9 12 | 0 39 |
| T 29 | 14 34 | 1 45 | 0n37 | 14 37 | 0 24 | 27 3 | 3 41 | 11 6 | 2 2 | 22 36 | 0 16 | 22 27 | 0 6 | 7 43 | 0 35 | 13 36 | 0 28 | 22 16 | 0 36 | 3 55 | 4 32 | 17 41 | 9 13 | 0 39 |
| W30 | 14n53 | 2s15 | 1n43 | 14n 8 | 0n 7 | 27n 6 | 3n42 | 11n 1 | 2n 0 | 22n37 | 0s15 | 22n27 | 0n 6 | 7n45 | 0s35 | 13s36 | 0s28 | 22n16 | 0s36 | 3n56 | 4n34 | 17s42 | 9n14 | 0n39 |

Julian Day Number = 2335123.5, Delta T = 22.95 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'27, Lahiri = 19°24'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## MAY 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 37 57 | 11♉ 6'18 | 22♎ 4 | 6°R51 | 26♊ 3 | 6♍38 | 17♊35 | 17♋26 | 21♈15 | 25♒10 | 12♋51 | 20°R 1 | 18♍26 | 16♐49 | 22♈12 | T 1 |
| F 2 | 14 41 54 | 12° 4'20 | 4♏21 | 6♉15 | 26°54 | 6°48 | 17°48 | 17°31 | 21°19 | 25°11 | 12°51 | 19♍54 | 18°23 | 16°56 | 22°16 | F 2 |
| S 3 | 14 45 50 | 13° 2'20 | 16°29 | 5°41 | 27°45 | 7° 0 | 18° 0 | 17°35 | 21°22 | 25°12 | 12°52 | 19°46 | 18°20 | 17° 3 | 22°19 | S 3 |
| S 4 | 14 49 47 | 14° 0'18 | 28°32 | 5° 9 | 28°35 | 7°11 | 18°13 | 17°40 | 21°25 | 25°12 | 12°53 | 19°36 | 18°16 | 17° 9 | 22°23 | S 4 |
| M 5 | 14 53 43 | 14°58'16 | 10♐29 | 4°41 | 29°24 | 7°24 | 18°25 | 17°45 | 21°28 | 25°13 | 12°54 | 19°25 | 18°13 | 17°16 | 22°27 | M 5 |
| T 6 | 14 57 40 | 15°56'11 | 22°22 | 4°16 | 0♋12 | 7°36 | 18°38 | 17°50 | 21°32 | 25°14 | 12°55 | 19°15 | 18°10 | 17°23 | 22°30 | T 6 |
| W 7 | 15 1 36 | 16°54'05 | 4♑14 | 3°54 | 1° 0 | 7°50 | 18°50 | 17°55 | 21°35 | 25°15 | 12°56 | 19° 6 | 18° 7 | 17°29 | 22°34 | W 7 |
| T 8 | 15 5 33 | 17°51'58 | 16° 7 | 3°37 | 1°47 | 8° 4 | 19° 3 | 18° 0 | 21°38 | 25°15 | 12°57 | 19° 0 | 18° 4 | 17°36 | 22°37 | T 8 |
| F 9 | 15 9 30 | 18°49'50 | 28° 6 | 3°24 | 2°33 | 8°18 | 19°16 | 18° 5 | 21°41 | 25°16 | 12°58 | 18°55 | 18° 1 | 17°43 | 22°41 | F 9 |
| S 10 | 15 13 26 | 19°47'40 | 10♒13 | 3°15 | 3°18 | 8°33 | 19°29 | 18°10 | 21°44 | 25°16 | 12°59 | 18°53 | 17°57 | 17°50 | 22°44 | S 10 |
| S 11 | 15 17 23 | 20°45'29 | 22°35 | 3°D11 | 4° 2 | 8°48 | 19°41 | 18°15 | 21°47 | 25°17 | 13° 0 | 18°D52 | 17°54 | 17°56 | 22°48 | S 11 |
| M12 | 15 21 19 | 21°43'17 | 5♓15 | 3°11 | 4°45 | 9° 4 | 19°54 | 18°21 | 21°50 | 25°18 | 13° 1 | 18°53 | 17°51 | 18° 3 | 22°51 | M12 |
| T 13 | 15 25 16 | 22°41'04 | 18°18 | 3°16 | 5°27 | 9°21 | 20° 7 | 18°26 | 21°53 | 25°18 | 13° 2 | 18°R53 | 17°48 | 18°10 | 22°54 | T 13 |
| W14 | 15 29 12 | 23°38'49 | 1♈49 | 3°25 | 6° 8 | 9°38 | 20°20 | 18°32 | 21°57 | 25°19 | 13° 3 | 18°53 | 17°45 | 18°17 | 22°58 | W14 |
| T 15 | 15 33 9 | 24°36'34 | 15°48 | 3°39 | 6°48 | 9°55 | 20°33 | 18°37 | 22° 0 | 25°19 | 13° 4 | 18°50 | 17°41 | 18°23 | 23° 1 | T 15 |
| F 16 | 15 37 5 | 25°34'17 | 0♉15 | 3°58 | 7°27 | 10°13 | 20°46 | 18°43 | 22° 3 | 25°19 | 13° 5 | 18°45 | 17°38 | 18°30 | 23° 4 | F 16 |
| S 17 | 15 41 2 | 26°31'59 | 15° 6 | 4°21 | 8° 5 | 10°31 | 20°59 | 18°49 | 22° 6 | 25°20 | 13° 6 | 18°37 | 17°35 | 18°37 | 23° 8 | S 17 |
| S 18 | 15 44 59 | 27°29'40 | 0♊13 | 4°48 | 8°42 | 10°49 | 21°13 | 18°54 | 22° 9 | 25°20 | 13° 8 | 18°28 | 17°32 | 18°43 | 23°11 | S 18 |
| M19 | 15 48 55 | 28°27'20 | 15°27 | 5°19 | 9°17 | 11° 8 | 21°26 | 19° 0 | 22°11 | 25°20 | 13° 9 | 18°18 | 17°29 | 18°50 | 23°14 | M19 |
| T 20 | 15 52 52 | 29°24'58 | 0♋37 | 5°54 | 9°51 | 11°28 | 21°39 | 19° 6 | 22°14 | 25°21 | 13°10 | 18° 9 | 17°26 | 18°57 | 23°17 | T 20 |
| W21 | 15 56 48 | 0♊22'35 | 15°32 | 6°33 | 10°23 | 11°48 | 21°52 | 19°12 | 22°17 | 25°21 | 13°11 | 18° 1 | 17°22 | 19° 4 | 23°21 | W21 |
| T 22 | 16 0 45 | 1°20'11 | 0♌ 5 | 7°17 | 10°55 | 12° 8 | 22° 5 | 19°18 | 22°20 | 25°21 | 13°12 | 17°55 | 17°19 | 19°10 | 23°24 | T 22 |
| F 23 | 16 4 41 | 2°17'45 | 14°13 | 8° 3 | 11°24 | 12°28 | 22°19 | 19°24 | 22°23 | 25°21 | 13°13 | 17°52 | 17°16 | 19°17 | 23°27 | F 23 |
| S 24 | 16 8 38 | 3°15'18 | 27°55 | 8°54 | 11°53 | 12°50 | 22°32 | 19°30 | 22°26 | 25°21 | 13°15 | 17°51 | 17°13 | 19°24 | 23°30 | S 24 |
| S 25 | 16 12 34 | 4°12'49 | 11♍12 | 9°48 | 12°19 | 13°11 | 22°45 | 19°37 | 22°29 | 25°21 | 13°16 | 17°51 | 17°10 | 19°30 | 23°33 | S 25 |
| M26 | 16 16 31 | 5°10'19 | 24° 7 | 10°45 | 12°44 | 13°33 | 22°59 | 19°43 | 22°31 | 25°22 | 13°17 | 17°51 | 17° 7 | 19°37 | 23°36 | M26 |
| T 27 | 16 20 28 | 6° 7'47 | 6♎45 | 11°45 | 13° 8 | 13°55 | 23°12 | 19°49 | 22°34 | 25°22 | 13°19 | 17°50 | 17° 3 | 19°44 | 23°39 | T 27 |
| W28 | 16 24 24 | 7° 5'14 | 19° 9 | 12°49 | 13°29 | 14°17 | 23°26 | 19°56 | 22°37 | 25°R22 | 13°20 | 17°46 | 17° 0 | 19°51 | 23°42 | W28 |
| T 29 | 16 28 21 | 8° 2'41 | 1♏22 | 13°56 | 13°49 | 14°40 | 23°39 | 20° 2 | 22°39 | 25°22 | 13°21 | 17°40 | 16°57 | 19°57 | 23°45 | T 29 |
| F 30 | 16 32 17 | 9° 0'05 | 13°27 | 15° 7 | 14° 7 | 15° 3 | 23°53 | 20° 8 | 22°42 | 25°21 | 13°22 | 17°31 | 16°54 | 20° 4 | 23°48 | F 30 |
| S 31 | 16 36 14 | 9♊57'29 | 25♏27 | 16♉20 | 14♋23 | 15♍27 | 24♊ 6 | 20♋15 | 22♈45 | 25♒21 | 13♋24 | 17♍20 | 16♍51 | 20♐11 | 23♈51 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n11 | 6s 5 | 2n43 | 13n39 | 0s11 | 27n 8 | 3n43 | 10n55 | 1n58 | 22n39 | 0s15 | 22n26 | 0n 6 | 7n46 | 0s35 | 13s35 | 0s28 | 22n16 | 0s35 | 3n58 | 4n35 | 17s42 | 9n16 | 0n39 |
| F 2 | 15 29 | 9 37 | 3 35 | 13 11 | 0 28 | 27 10 | 3 44 | 10 49 | 1 55 | 22 40 | 0 15 | 22 26 | 0 6 | 7 47 | 0 35 | 13 35 | 0 28 | 22 16 | 0 35 | 4 0 | 4 36 | 17 43 | 9 17 | 0 39 |
| S 3 | 15 47 | 12 43 | 4 16 | 12 44 | 0 45 | 27 11 | 3 44 | 10 42 | 1 53 | 22 41 | 0 15 | 22 25 | 0 6 | 7 48 | 0 35 | 13 35 | 0 28 | 22 16 | 0 35 | 4 4 | 4 37 | 17 44 | 9 18 | 0 39 |
| S 4 | 16 4 | 15 14 | 4 45 | 12 18 | 1 2 | 27 12 | 3 44 | 10 36 | 1 51 | 22 42 | 0 15 | 22 25 | 0 6 | 7 50 | 0 35 | 13 35 | 0 28 | 22 16 | 0 35 | 4 8 | 4 39 | 17 44 | 9 20 | 0 39 |
| M 5 | 16 21 | 17 5 | 5 1 | 11 53 | 1 18 | 27 13 | 3 44 | 10 29 | 1 49 | 22 44 | 0 15 | 22 24 | 0 6 | 7 51 | 0 35 | 13 34 | 0 28 | 22 16 | 0 35 | 4 12 | 4 40 | 17 45 | 9 21 | 0 39 |
| T 6 | 16 38 | 18 12 | 5 4 | 11 30 | 1 33 | 27 13 | 3 44 | 10 23 | 1 46 | 22 45 | 0 15 | 22 24 | 0 6 | 7 52 | 0 35 | 13 34 | 0 28 | 22 16 | 0 35 | 4 16 | 4 41 | 17 45 | 9 22 | 0 39 |
| W 7 | 16 55 | 18 31 | 4 54 | 11 9 | 1 48 | 27 12 | 3 44 | 10 16 | 1 44 | 22 46 | 0 15 | 22 23 | 0 7 | 7 53 | 0 35 | 13 34 | 0 28 | 22 16 | 0 35 | 4 19 | 4 42 | 17 46 | 9 23 | 0 39 |
| T 8 | 17 11 | 18 0 | 4 32 | 10 50 | 2 2 | 27 11 | 3 43 | 10 8 | 1 42 | 22 47 | 0 14 | 22 22 | 0 7 | 7 54 | 0 35 | 13 34 | 0 28 | 22 16 | 0 35 | 4 22 | 4 44 | 17 47 | 9 25 | 0 38 |
| F 9 | 17 27 | 16 42 | 3 57 | 10 33 | 2 15 | 27 9 | 3 42 | 10 1 | 1 40 | 22 48 | 0 14 | 22 22 | 0 7 | 7 56 | 0 35 | 13 34 | 0 28 | 22 16 | 0 35 | 4 24 | 4 45 | 17 47 | 9 26 | 0 38 |
| S 10 | 17 43 | 14 38 | 3 11 | 10 18 | 2 27 | 27 7 | 3 41 | 9 53 | 1 38 | 22 49 | 0 14 | 22 21 | 0 7 | 7 57 | 0 35 | 13 33 | 0 28 | 22 16 | 0 35 | 4 24 | 4 46 | 17 48 | 9 27 | 0 38 |
| S 11 | 17 58 | 11 52 | 2 16 | 10 7 | 2 38 | 27 5 | 3 40 | 9 46 | 1 36 | 22 51 | 0 14 | 22 21 | 0 7 | 7 58 | 0 35 | 13 33 | 0 28 | 22 16 | 0 35 | 4 25 | 4 47 | 17 48 | 9 28 | 0 38 |
| M12 | 18 13 | 8 29 | 1 12 | 9 57 | 2 49 | 27 2 | 3 39 | 9 38 | 1 34 | 22 52 | 0 14 | 22 20 | 0 7 | 7 59 | 0 35 | 13 33 | 0 28 | 22 16 | 0 35 | 4 24 | 4 49 | 17 49 | 9 29 | 0 38 |
| T 13 | 18 28 | 4 35 | 0 3 | 9 50 | 2 58 | 26 59 | 3 37 | 9 30 | 1 32 | 22 53 | 0 14 | 22 19 | 0 7 | 8 0 | 0 35 | 13 33 | 0 28 | 22 16 | 0 35 | 4 24 | 4 50 | 17 49 | 9 31 | 0 38 |
| W14 | 18 43 | 0 19 | 1s 8 | 9 46 | 3 6 | 26 55 | 3 35 | 9 22 | 1 30 | 22 54 | 0 14 | 22 19 | 0 7 | 8 1 | 0 35 | 13 33 | 0 28 | 22 16 | 0 34 | 4 25 | 4 51 | 17 50 | 9 32 | 0 38 |
| T 15 | 18 57 | 4n 6 | 2 18 | 9 44 | 3 13 | 26 51 | 3 33 | 9 13 | 1 28 | 22 55 | 0 14 | 22 18 | 0 7 | 8 2 | 0 35 | 13 33 | 0 28 | 22 16 | 0 34 | 4 26 | 4 52 | 17 51 | 9 33 | 0 38 |
| F 16 | 19 11 | 8 26 | 3 21 | 9 44 | 3 19 | 26 46 | 3 30 | 9 5 | 1 26 | 22 56 | 0 14 | 22 17 | 0 7 | 8 4 | 0 35 | 13 33 | 0 28 | 22 16 | 0 34 | 4 28 | 4 54 | 17 51 | 9 34 | 0 38 |
| S 17 | 19 25 | 12 22 | 4 13 | 9 47 | 3 24 | 26 41 | 3 28 | 8 56 | 1 24 | 22 57 | 0 13 | 22 17 | 0 7 | 8 5 | 0 35 | 13 33 | 0 28 | 22 16 | 0 34 | 4 30 | 4 55 | 17 52 | 9 35 | 0 38 |
| S 18 | 19 38 | 15 33 | 4 47 | 9 52 | 3 28 | 26 36 | 3 25 | 8 47 | 1 22 | 22 58 | 0 13 | 22 16 | 0 7 | 8 6 | 0 35 | 13 32 | 0 28 | 22 16 | 0 34 | 4 34 | 4 56 | 17 52 | 9 37 | 0 38 |
| M19 | 19 51 | 17 41 | 5 2 | 9 59 | 3 32 | 26 30 | 3 22 | 8 38 | 1 20 | 22 59 | 0 13 | 22 15 | 0 7 | 8 7 | 0 35 | 13 32 | 0 28 | 22 16 | 0 34 | 4 38 | 4 57 | 17 53 | 9 38 | 0 38 |
| T 20 | 20 3 | 18 34 | 4 55 | 10 9 | 3 34 | 26 24 | 3 18 | 8 29 | 1 18 | 23 0 | 0 13 | 22 14 | 0 8 | 8 8 | 0 35 | 13 32 | 0 28 | 22 16 | 0 34 | 4 42 | 4 59 | 17 53 | 9 39 | 0 38 |
| W21 | 20 16 | 18 8 | 4 28 | 10 20 | 3 35 | 26 18 | 3 14 | 8 20 | 1 17 | 23 1 | 0 13 | 22 14 | 0 8 | 8 9 | 0 35 | 13 32 | 0 28 | 22 16 | 0 34 | 4 45 | 5 0 | 17 54 | 9 40 | 0 38 |
| T 22 | 20 28 | 16 30 | 3 45 | 10 34 | 3 36 | 26 11 | 3 10 | 8 10 | 1 15 | 23 2 | 0 13 | 22 13 | 0 8 | 8 10 | 0 35 | 13 32 | 0 28 | 22 16 | 0 34 | 4 47 | 5 1 | 17 55 | 9 41 | 0 38 |
| F 23 | 20 39 | 13 54 | 2 48 | 10 49 | 3 36 | 26 5 | 3 6 | 8 1 | 1 13 | 23 3 | 0 13 | 22 12 | 0 8 | 8 11 | 0 35 | 13 32 | 0 28 | 22 16 | 0 34 | 4 48 | 5 2 | 17 55 | 9 42 | 0 38 |
| S 24 | 20 50 | 10 36 | 1 44 | 11 6 | 3 34 | 25 57 | 3 1 | 7 51 | 1 11 | 23 3 | 0 13 | 22 11 | 0 8 | 8 12 | 0 35 | 13 32 | 0 28 | 22 15 | 0 34 | 4 49 | 5 3 | 17 56 | 9 43 | 0 38 |
| S 25 | 21 1 | 6 50 | 0 35 | 11 24 | 3 33 | 25 50 | 2 56 | 7 41 | 1 9 | 23 4 | 0 13 | 22 10 | 0 8 | 8 13 | 0 35 | 13 32 | 0 28 | 22 15 | 0 34 | 4 49 | 5 5 | 17 56 | 9 44 | 0 38 |
| M26 | 21 12 | 2 51 | 0n33 | 11 45 | 3 30 | 25 42 | 2 51 | 7 31 | 1 8 | 23 5 | 0 12 | 22 10 | 0 8 | 8 14 | 0 35 | 13 32 | 0 28 | 22 15 | 0 34 | 4 49 | 5 6 | 17 57 | 9 46 | 0 37 |
| T 27 | 21 22 | 1s11 | 1 38 | 12 6 | 3 27 | 25 34 | 2 45 | 7 21 | 1 6 | 23 6 | 0 12 | 22 9 | 0 8 | 8 15 | 0 35 | 13 32 | 0 28 | 22 15 | 0 34 | 4 49 | 5 7 | 17 57 | 9 47 | 0 37 |
| W28 | 21 32 | 5 5 | 2 37 | 12 29 | 3 23 | 25 26 | 2 39 | 7 11 | 1 4 | 23 7 | 0 12 | 22 8 | 0 8 | 8 16 | 0 35 | 13 32 | 0 28 | 22 15 | 0 34 | 4 50 | 5 8 | 17 58 | 9 48 | 0 37 |
| T 29 | 21 41 | 8 43 | 3 28 | 12 54 | 3 18 | 25 17 | 2 33 | 7 1 | 1 3 | 23 7 | 0 12 | 22 7 | 0 8 | 8 17 | 0 35 | 13 32 | 0 29 | 22 15 | 0 33 | 4 53 | 5 10 | 17 58 | 9 49 | 0 37 |
| F 30 | 21 50 | 11 56 | 4 9 | 13 19 | 3 13 | 25 9 | 2 26 | 6 50 | 1 1 | 23 8 | 0 12 | 22 6 | 0 8 | 8 18 | 0 35 | 13 32 | 0 29 | 22 15 | 0 33 | 4 56 | 5 11 | 17 59 | 9 50 | 0 37 |
| S 31 | 21n59 | 14s39 | 4n39 | 13n46 | 3s 7 | 25n 0 | 2n19 | 6n40 | 0n59 | 23n 9 | 0s12 | 22n 5 | 0n 8 | 8n19 | 0s35 | 13s32 | 0s29 | 22n15 | 0s33 | 5n 1 | 5n12 | 17s59 | 9n51 | 0n37 |

Julian Day Number = 2335153.5, Delta T = 22.91 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'31, Lahiri = 19°24'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## JUNE 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 40 10 | 10♊54'52 | 7♐23 | 17♉36 | 14♋37 | 15♍50 | 24♊20 | 20♋22 | 22♈47 | 25°R21 | 13♋25 | 17°R 7 | 16♍47 | 20♐18 | 23♈54 | S 1 |
| M 2 | 16 44 7 | 11°52'14 | 19°16 | 18°55 | 14°49 | 16°15 | 24°33 | 20°28 | 22°50 | 25♒21 | 13°26 | 16♍53 | 16°44 | 20°24 | 23°56 | M 2 |
| T 3 | 16 48 3 | 12°49'36 | 1♑ 9 | 20°18 | 14°58 | 16°39 | 24°47 | 20°35 | 22°52 | 25°21 | 13°28 | 16°40 | 16°41 | 20°31 | 23°59 | T 3 |
| W 4 | 16 52 0 | 13°46'56 | 13° 2 | 21°43 | 15° 6 | 17° 4 | 25° 0 | 20°42 | 22°55 | 25°21 | 13°29 | 16°28 | 16°38 | 20°38 | 24° 2 | W 4 |
| T 5 | 16 55 57 | 14°44'16 | 24°57 | 23°11 | 15°11 | 17°29 | 25°14 | 20°48 | 22°57 | 25°20 | 13°31 | 16°18 | 16°35 | 20°44 | 24° 5 | T 5 |
| F 6 | 16 59 53 | 15°41'35 | 6♒58 | 24°41 | 15°14 | 17°54 | 25°27 | 20°55 | 22°59 | 25°20 | 13°32 | 16°11 | 16°32 | 20°51 | 24° 7 | F 6 |
| S 7 | 17 3 50 | 16°38'54 | 19° 7 | 26°15 | 15°R15 | 18°19 | 25°41 | 21° 2 | 23° 2 | 25°20 | 13°33 | 16° 7 | 16°28 | 20°58 | 24°10 | S 7 |
| S 8 | 17 7 46 | 17°36'12 | 1♓28 | 27°51 | 15°14 | 18°45 | 25°55 | 21° 9 | 23° 4 | 25°19 | 13°35 | 16° 5 | 16°25 | 21° 5 | 24°12 | S 8 |
| M 9 | 17 11 43 | 18°33'30 | 14° 6 | 29°31 | 15°10 | 19°11 | 26° 8 | 21°16 | 23° 6 | 25°19 | 13°36 | 16° 5 | 16°22 | 21°11 | 24°15 | M 9 |
| T 10 | 17 15 39 | 19°30'48 | 27° 6 | 1♊13 | 15° 4 | 19°38 | 26°22 | 21°23 | 23° 9 | 25°19 | 13°38 | 16° 5 | 16°19 | 21°18 | 24°18 | T 10 |
| W11 | 17 19 36 | 20°28'05 | 10♈30 | 2°57 | 14°55 | 20° 5 | 26°36 | 21°30 | 23°11 | 25°18 | 13°39 | 16° 4 | 16°16 | 21°25 | 24°20 | W11 |
| T 12 | 17 23 32 | 21°25'22 | 24°23 | 4°45 | 14°44 | 20°31 | 26°49 | 21°37 | 23°13 | 25°18 | 13°41 | 16° 1 | 16°13 | 21°32 | 24°22 | T 12 |
| F 13 | 17 27 29 | 22°22'38 | 8♉44 | 6°35 | 14°31 | 20°59 | 27° 3 | 21°44 | 23°15 | 25°17 | 13°42 | 15°56 | 16° 9 | 21°38 | 24°25 | F 13 |
| S 14 | 17 31 26 | 23°19'55 | 23°31 | 8°28 | 14°15 | 21°26 | 27°17 | 21°51 | 23°17 | 25°17 | 13°44 | 15°48 | 16° 6 | 21°45 | 24°27 | S 14 |
| S 15 | 17 35 22 | 24°17'11 | 8♊39 | 10°23 | 13°57 | 21°54 | 27°30 | 21°58 | 23°19 | 25°16 | 13°45 | 15°38 | 16° 3 | 21°52 | 24°29 | S 15 |
| M16 | 17 39 19 | 25°14'27 | 23°57 | 12°21 | 13°37 | 22°22 | 27°44 | 22° 6 | 23°21 | 25°16 | 13°47 | 15°28 | 16° 0 | 21°58 | 24°32 | M16 |
| T 17 | 17 43 15 | 26°11'42 | 9♋14 | 14°21 | 13°14 | 22°50 | 27°58 | 22°13 | 23°23 | 25°15 | 13°48 | 15°17 | 15°57 | 22° 5 | 24°34 | T 17 |
| W18 | 17 47 12 | 27° 8'57 | 24°20 | 16°23 | 12°49 | 23°19 | 28°11 | 22°20 | 23°25 | 25°14 | 13°50 | 15° 9 | 15°53 | 22°12 | 24°36 | W18 |
| T 19 | 17 51 8 | 28° 6'11 | 9♌ 4 | 18°27 | 12°23 | 23°47 | 28°25 | 22°27 | 23°27 | 25°14 | 13°51 | 15° 2 | 15°50 | 22°19 | 24°38 | T 19 |
| F 20 | 17 55 5 | 29° 3'25 | 23°22 | 20°32 | 11°54 | 24°16 | 28°39 | 22°35 | 23°29 | 25°13 | 13°53 | 14°59 | 15°47 | 22°25 | 24°40 | F 20 |
| S 21 | 17 59 1 | 0♋ 0'38 | 7♍11 | 22°40 | 11°24 | 24°45 | 28°53 | 22°42 | 23°31 | 25°12 | 13°54 | 14°57 | 15°44 | 22°32 | 24°42 | S 21 |
| S 22 | 18 2 58 | 0°57'51 | 20°33 | 24°48 | 10°52 | 25°15 | 29° 6 | 22°50 | 23°33 | 25°11 | 13°56 | 14°D57 | 15°41 | 22°39 | 24°44 | S 22 |
| M23 | 18 6 55 | 1°55'03 | 3♎29 | 26°58 | 10°18 | 25°44 | 29°20 | 22°57 | 23°34 | 25°11 | 13°57 | 14°R57 | 15°38 | 22°45 | 24°46 | M23 |
| T 24 | 18 10 51 | 2°52'15 | 16° 5 | 29° 8 | 9°44 | 26°14 | 29°34 | 23° 4 | 23°36 | 25°10 | 13°59 | 14°57 | 15°34 | 22°52 | 24°48 | T 24 |
| W25 | 18 14 48 | 3°49'26 | 28°24 | 1♋18 | 9° 8 | 26°44 | 29°47 | 23°12 | 23°38 | 25° 9 | 14° 0 | 14°54 | 15°31 | 22°59 | 24°50 | W25 |
| T 26 | 18 18 44 | 4°46'37 | 10♏32 | 3°29 | 8°31 | 27°14 | 0♋ 1 | 23°19 | 23°39 | 25° 8 | 14° 2 | 14°49 | 15°28 | 23° 6 | 24°52 | T 26 |
| F 27 | 18 22 41 | 5°43'47 | 22°31 | 5°40 | 7°54 | 27°45 | 0°15 | 23°27 | 23°41 | 25° 7 | 14° 3 | 14°42 | 15°25 | 23°12 | 24°53 | F 27 |
| S 28 | 18 26 37 | 6°40'58 | 4♐26 | 7°50 | 7°17 | 28°15 | 0°28 | 23°35 | 23°42 | 25° 6 | 14° 5 | 14°32 | 15°22 | 23°19 | 24°55 | S 28 |
| S 29 | 18 30 34 | 7°38'08 | 16°19 | 10° 0 | 6°39 | 28°46 | 0°42 | 23°42 | 23°44 | 25° 5 | 14° 6 | 14°20 | 15°19 | 23°26 | 24°57 | S 29 |
| M30 | 18 34 30 | 8♋35'18 | 28♐11 | 12♋ 9 | 6♋ 1 | 29♍17 | 0♋55 | 23♋50 | 23♈45 | 25♒ 4 | 14♋ 8 | 14♍ 8 | 15♍15 | 23♐33 | 24♈58 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 7 | 16s43 | 4n55 | 14n14 | 3s 0 | 24n51 | 2n11 | 6n29 | 0n58 | 23n10 | 0s12 | 22n 4 | 0n 9 | 8n20 | 0s35 | 13s32 | 0s29 | 22n15 | 0s33 | 5n 6 | 5n13 | 18s 0 | 9n52 | 0n37 |
| M 2 | 22 15 | 18 4 | 4 59 | 14 42 | 2 53 | 24 42 | 2 3 | 6 18 | 0 56 | 23 10 | 0 12 | 22 3 | 0 9 | 8 21 | 0 35 | 13 32 | 0 29 | 22 15 | 0 33 | 5 11 | 5 15 | 18 1 | 9 53 | 0 37 |
| T 3 | 22 22 | 18 38 | 4 50 | 15 11 | 2 45 | 24 32 | 1 55 | 6 7 | 0 55 | 23 11 | 0 12 | 22 3 | 0 9 | 8 22 | 0 35 | 13 33 | 0 29 | 22 15 | 0 33 | 5 16 | 5 16 | 18 1 | 9 54 | 0 37 |
| W 4 | 22 29 | 18 23 | 4 29 | 15 41 | 2 37 | 24 23 | 1 46 | 5 56 | 0 53 | 23 12 | 0 11 | 22 2 | 0 9 | 8 23 | 0 35 | 13 33 | 0 29 | 22 15 | 0 33 | 5 21 | 5 17 | 18 2 | 9 55 | 0 37 |
| T 5 | 22 36 | 17 19 | 3 55 | 16 12 | 2 29 | 24 13 | 1 37 | 5 45 | 0 51 | 23 12 | 0 11 | 22 1 | 0 9 | 8 24 | 0 35 | 13 33 | 0 29 | 22 15 | 0 33 | 5 25 | 5 18 | 18 2 | 9 56 | 0 37 |
| F 6 | 22 43 | 15 29 | 3 11 | 16 43 | 2 20 | 24 3 | 1 27 | 5 33 | 0 50 | 23 13 | 0 11 | 22 0 | 0 9 | 8 24 | 0 35 | 13 33 | 0 29 | 22 15 | 0 33 | 5 28 | 5 20 | 18 3 | 9 57 | 0 37 |
| S 7 | 22 48 | 12 56 | 2 17 | 17 14 | 2 10 | 23 53 | 1 17 | 5 22 | 0 48 | 23 13 | 0 11 | 21 59 | 0 9 | 8 25 | 0 35 | 13 33 | 0 29 | 22 15 | 0 33 | 5 29 | 5 21 | 18 3 | 9 57 | 0 37 |
| S 8 | 22 54 | 9 47 | 1 16 | 17 46 | 2 0 | 23 43 | 1 7 | 5 10 | 0 47 | 23 14 | 0 11 | 21 58 | 0 9 | 8 26 | 0 35 | 13 33 | 0 29 | 22 14 | 0 33 | 5 30 | 5 22 | 18 4 | 9 58 | 0 37 |
| M 9 | 22 59 | 6 6 | 0 10 | 18 17 | 1 50 | 23 33 | 0 56 | 4 59 | 0 45 | 23 14 | 0 11 | 21 57 | 0 9 | 8 27 | 0 35 | 13 33 | 0 29 | 22 14 | 0 33 | 5 30 | 5 23 | 18 4 | 9 59 | 0 37 |
| T 10 | 23 4 | 2 3 | 0s58 | 18 49 | 1 40 | 23 22 | 0 45 | 4 47 | 0 44 | 23 15 | 0 11 | 21 56 | 0 9 | 8 28 | 0 35 | 13 33 | 0 29 | 22 14 | 0 33 | 5 30 | 5 25 | 18 5 | 10 0 | 0 37 |
| W11 | 23 8 | 2n15 | 2 5 | 19 20 | 1 29 | 23 12 | 0 33 | 4 35 | 0 42 | 23 15 | 0 11 | 21 55 | 0 9 | 8 29 | 0 35 | 13 34 | 0 29 | 22 14 | 0 33 | 5 30 | 5 26 | 18 5 | 10 1 | 0 37 |
| T 12 | 23 12 | 6 33 | 3 8 | 19 51 | 1 18 | 23 1 | 0 21 | 4 23 | 0 41 | 23 16 | 0 11 | 21 54 | 0 9 | 8 29 | 0 35 | 13 34 | 0 29 | 22 14 | 0 32 | 5 31 | 5 27 | 18 6 | 10 2 | 0 37 |
| F 13 | 23 15 | 10 38 | 4 0 | 20 21 | 1 6 | 22 50 | 0 9 | 4 11 | 0 40 | 23 16 | 0 11 | 21 53 | 0 10 | 8 30 | 0 35 | 13 34 | 0 29 | 22 14 | 0 32 | 5 34 | 5 28 | 18 6 | 10 3 | 0 37 |
| S 14 | 23 19 | 14 11 | 4 39 | 20 51 | 0 55 | 22 39 | 0s 4 | 3 59 | 0 38 | 23 17 | 0 10 | 21 52 | 0 10 | 8 31 | 0 35 | 13 34 | 0 29 | 22 14 | 0 32 | 5 37 | 5 29 | 18 7 | 10 3 | 0 36 |
| S 15 | 23 21 | 16 52 | 4 59 | 21 19 | 0 44 | 22 28 | 0 17 | 3 47 | 0 37 | 23 17 | 0 10 | 21 50 | 0 10 | 8 32 | 0 35 | 13 34 | 0 29 | 22 14 | 0 32 | 5 40 | 5 31 | 18 7 | 10 4 | 0 36 |
| M16 | 23 24 | 18 23 | 4 58 | 21 47 | 0 32 | 22 17 | 0 30 | 3 35 | 0 35 | 23 17 | 0 10 | 21 49 | 0 10 | 8 32 | 0 35 | 13 35 | 0 29 | 22 14 | 0 32 | 5 44 | 5 32 | 18 8 | 10 5 | 0 36 |
| T 17 | 23 25 | 18 35 | 4 35 | 22 13 | 0 21 | 22 6 | 0 44 | 3 22 | 0 34 | 23 18 | 0 10 | 21 48 | 0 10 | 8 33 | 0 35 | 13 35 | 0 29 | 22 14 | 0 32 | 5 48 | 5 33 | 18 8 | 10 6 | 0 36 |
| W18 | 23 27 | 17 27 | 3 54 | 22 37 | 0 9 | 21 54 | 0 57 | 3 10 | 0 33 | 23 18 | 0 10 | 21 47 | 0 10 | 8 34 | 0 35 | 13 35 | 0 29 | 22 14 | 0 32 | 5 52 | 5 34 | 18 9 | 10 7 | 0 36 |
| T 19 | 23 28 | 15 10 | 2 58 | 23 0 | 0n 2 | 21 43 | 1 11 | 2 57 | 0 31 | 23 18 | 0 10 | 21 46 | 0 10 | 8 34 | 0 36 | 13 35 | 0 29 | 22 14 | 0 32 | 5 54 | 5 36 | 18 9 | 10 7 | 0 36 |
| F 20 | 23 28 | 12 0 | 1 52 | 23 21 | 0 13 | 21 32 | 1 25 | 2 44 | 0 30 | 23 18 | 0 10 | 21 45 | 0 10 | 8 35 | 0 36 | 13 36 | 0 29 | 22 13 | 0 32 | 5 56 | 5 37 | 18 9 | 10 8 | 0 36 |
| S 21 | 23 29 | 8 15 | 0 41 | 23 40 | 0 23 | 21 20 | 1 40 | 2 32 | 0 29 | 23 19 | 0 10 | 21 44 | 0 10 | 8 36 | 0 36 | 13 36 | 0 29 | 22 13 | 0 32 | 5 56 | 5 38 | 18 10 | 10 9 | 0 36 |
| S 22 | 23 28 | 4 12 | 0n30 | 23 56 | 0 33 | 21 9 | 1 54 | 2 19 | 0 27 | 23 19 | 0 10 | 21 43 | 0 10 | 8 36 | 0 36 | 13 36 | 0 29 | 22 13 | 0 32 | 5 56 | 5 39 | 18 10 | 10 9 | 0 36 |
| M23 | 23 28 | 0 5 | 1 37 | 24 10 | 0 43 | 20 57 | 2 8 | 2 6 | 0 26 | 23 19 | 0 10 | 21 42 | 0 10 | 8 37 | 0 36 | 13 36 | 0 29 | 22 13 | 0 32 | 5 56 | 5 41 | 18 11 | 10 10 | 0 36 |
| T 24 | 23 27 | 3s55 | 2 37 | 24 21 | 0 52 | 20 45 | 2 22 | 1 53 | 0 25 | 23 19 | 0 10 | 21 40 | 0 10 | 8 38 | 0 36 | 13 37 | 0 29 | 22 13 | 0 32 | 5 56 | 5 42 | 18 11 | 10 11 | 0 36 |
| W25 | 23 25 | 7 40 | 3 29 | 24 29 | 1 1 | 20 34 | 2 36 | 1 40 | 0 24 | 23 19 | 0 9 | 21 39 | 0 10 | 8 38 | 0 36 | 13 37 | 0 29 | 22 13 | 0 32 | 5 57 | 5 43 | 18 12 | 10 11 | 0 36 |
| T 26 | 23 24 | 11 2 | 4 10 | 24 35 | 1 9 | 20 23 | 2 50 | 1 26 | 0 22 | 23 19 | 0 9 | 21 38 | 0 11 | 8 39 | 0 36 | 13 37 | 0 29 | 22 13 | 0 32 | 5 59 | 5 44 | 18 12 | 10 12 | 0 36 |
| F 27 | 23 21 | 13 55 | 4 40 | 24 38 | 1 17 | 20 11 | 3 4 | 1 13 | 0 21 | 23 19 | 0 9 | 21 37 | 0 11 | 8 39 | 0 36 | 13 38 | 0 29 | 22 13 | 0 32 | 6 2 | 5 45 | 18 13 | 10 13 | 0 36 |
| S 28 | 23 19 | 16 11 | 4 57 | 24 38 | 1 23 | 20 0 | 3 17 | 1 0 | 0 20 | 23 20 | 0 9 | 21 36 | 0 11 | 8 40 | 0 36 | 13 38 | 0 29 | 22 13 | 0 31 | 6 6 | 5 47 | 18 13 | 10 13 | 0 36 |
| S 29 | 23 15 | 17 46 | 5 2 | 24 35 | 1 29 | 19 49 | 3 30 | 0 46 | 0 19 | 23 20 | 0 9 | 21 34 | 0 11 | 8 40 | 0 36 | 13 38 | 0 29 | 22 13 | 0 31 | 6 10 | 5 48 | 18 14 | 10 14 | 0 36 |
| M30 | 23n12 | 18s35 | 4n53 | 24n30 | 1n35 | 19n38 | 3s42 | 0n33 | 0n17 | 23n20 | 0s 9 | 21n33 | 0n11 | 8n41 | 0s36 | 13s39 | 0s29 | 22n12 | 0s31 | 6n15 | 5n49 | 18s14 | 10n14 | 0n36 |

Julian Day Number = 2335184.5, Delta T = 22.86 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'36, Lahiri = 19°24'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## JULY 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 38 27 | 9♋32'28 | 10♉ 5 | 14♋16 | 5°R24 | 29♍48 | 1♋ 9 | 23♋57 | 23♈47 | 25°R 3 | 14♋10 | 13°R57 | 15♍12 | 23♐39 | 25♈ 0 | T 1 |
| W 2 | 18 42 24 | 10°29'39 | 22° 3 | 16°23 | 4♋48 | 0♎20 | 1°23 | 24° 5 | 23°48 | 25♒ 2 | 14°11 | 13♍46 | 15° 9 | 23°46 | 25° 1 | W 2 |
| T 3 | 18 46 20 | 11°26'49 | 4♒ 4 | 18°28 | 4°12 | 0°51 | 1°36 | 24°13 | 23°49 | 25° 1 | 14°13 | 13°38 | 15° 6 | 23°53 | 25° 3 | T 3 |
| F 4 | 18 50 17 | 12°24'00 | 16°12 | 20°32 | 3°38 | 1°23 | 1°50 | 24°20 | 23°51 | 25° 0 | 14°14 | 13°32 | 15° 3 | 23°59 | 25° 4 | F 4 |
| S 5 | 18 54 13 | 13°21'11 | 28°29 | 22°34 | 3° 4 | 1°55 | 2° 3 | 24°28 | 23°52 | 24°59 | 14°16 | 13°29 | 14°59 | 24° 6 | 25° 5 | S 5 |
| S 6 | 18 58 10 | 14°18'22 | 10♓57 | 24°34 | 2°33 | 2°27 | 2°17 | 24°36 | 23°53 | 24°58 | 14°17 | 13°D28 | 14°56 | 24°13 | 25° 7 | S 6 |
| M 7 | 19 2 6 | 15°15'33 | 23°39 | 26°33 | 2° 2 | 3° 0 | 2°30 | 24°43 | 23°54 | 24°57 | 14°19 | 13°28 | 14°53 | 24°20 | 25° 8 | M 7 |
| T 8 | 19 6 3 | 16°12'46 | 6♈39 | 28°30 | 1°34 | 3°32 | 2°44 | 24°51 | 23°55 | 24°56 | 14°21 | 13°29 | 14°50 | 24°26 | 25° 9 | T 8 |
| W 9 | 19 9 59 | 17° 9'58 | 20° 1 | 0♌25 | 1° 8 | 4° 5 | 2°57 | 24°59 | 23°56 | 24°54 | 14°22 | 13°R29 | 14°47 | 24°33 | 25°10 | W 9 |
| T 10 | 19 13 56 | 18° 7'12 | 3♉46 | 2°18 | 0°43 | 4°37 | 3°11 | 25° 6 | 23°57 | 24°53 | 14°24 | 13°28 | 14°44 | 24°40 | 25°11 | T 10 |
| F 11 | 19 17 53 | 19° 4'26 | 17°57 | 4° 9 | 0°21 | 5°10 | 3°24 | 25°14 | 23°58 | 24°52 | 14°25 | 13°25 | 14°40 | 24°46 | 25°12 | F 11 |
| S 12 | 19 21 49 | 20° 1'41 | 2♊31 | 5°59 | 0° 1 | 5°44 | 3°37 | 25°22 | 23°59 | 24°51 | 14°27 | 13°20 | 14°37 | 24°53 | 25°13 | S 12 |
| S 13 | 19 25 46 | 20°58'56 | 17°25 | 7°47 | 29♊43 | 6°17 | 3°51 | 25°30 | 24° 0 | 24°49 | 14°28 | 13°13 | 14°34 | 25° 0 | 25°14 | S 13 |
| M14 | 19 29 42 | 21°56'13 | 2♋32 | 9°33 | 29°28 | 6°50 | 4° 4 | 25°37 | 24° 1 | 24°48 | 14°30 | 13° 5 | 14°31 | 25° 7 | 25°15 | M14 |
| T 15 | 19 33 39 | 22°53'30 | 17°40 | 11°17 | 29°15 | 7°24 | 4°17 | 25°45 | 24° 1 | 24°47 | 14°31 | 12°58 | 14°28 | 25°13 | 25°16 | T 15 |
| W16 | 19 37 35 | 23°50'47 | 2♌42 | 12°59 | 29° 4 | 7°58 | 4°31 | 25°53 | 24° 2 | 24°46 | 14°33 | 12°52 | 14°24 | 25°20 | 25°17 | W16 |
| T 17 | 19 41 32 | 24°48'05 | 17°27 | 14°39 | 28°56 | 8°32 | 4°44 | 26° 1 | 24° 3 | 24°44 | 14°35 | 12°47 | 14°21 | 25°27 | 25°17 | T 17 |
| F 18 | 19 45 29 | 25°45'23 | 1♍48 | 16°18 | 28°50 | 9° 6 | 4°57 | 26° 9 | 24° 3 | 24°43 | 14°36 | 12°45 | 14°18 | 25°34 | 25°18 | F 18 |
| S 19 | 19 49 25 | 26°42'42 | 15°42 | 17°54 | 28°46 | 9°40 | 5°10 | 26°16 | 24° 4 | 24°41 | 14°38 | 12°D45 | 14°15 | 25°40 | 25°19 | S 19 |
| S 20 | 19 53 22 | 27°40'01 | 29° 9 | 19°29 | 28°D45 | 10°15 | 5°23 | 26°24 | 24° 4 | 24°40 | 14°39 | 12°45 | 14°12 | 25°47 | 25°19 | S 20 |
| M21 | 19 57 18 | 28°37'20 | 12♎11 | 21° 2 | 28°46 | 10°49 | 5°37 | 26°32 | 24° 5 | 24°39 | 14°41 | 12°47 | 14° 9 | 25°54 | 25°20 | M21 |
| T 22 | 20 1 15 | 29°34'40 | 24°49 | 22°33 | 28°50 | 11°24 | 5°50 | 26°40 | 24° 5 | 24°37 | 14°42 | 12°R48 | 14° 5 | 26° 0 | 25°20 | T 22 |
| W23 | 20 5 11 | 0♌32'00 | 7♏10 | 24° 3 | 28°55 | 11°59 | 6° 3 | 26°47 | 24° 5 | 24°36 | 14°44 | 12°48 | 14° 2 | 26° 7 | 25°20 | W23 |
| T 24 | 20 9 8 | 1°29'21 | 19°17 | 25°30 | 29° 3 | 12°34 | 6°16 | 26°55 | 24° 6 | 24°34 | 14°45 | 12°46 | 13°59 | 26°14 | 25°21 | T 24 |
| F 25 | 20 13 4 | 2°26'43 | 1♐16 | 26°56 | 29°13 | 13° 9 | 6°28 | 27° 3 | 24° 6 | 24°33 | 14°47 | 12°42 | 13°56 | 26°21 | 25°21 | F 25 |
| S 26 | 20 17 1 | 3°24'05 | 13° 9 | 28°19 | 29°25 | 13°44 | 6°41 | 27°11 | 24° 6 | 24°31 | 14°48 | 12°37 | 13°53 | 26°27 | 25°21 | S 26 |
| S 27 | 20 20 58 | 4°21'27 | 25° 1 | 29°41 | 29°39 | 14°20 | 6°54 | 27°18 | 24° 6 | 24°30 | 14°50 | 12°31 | 13°50 | 26°34 | 25°21 | S 27 |
| M28 | 20 24 54 | 5°18'51 | 6♑55 | 1♏ 1 | 29°55 | 14°55 | 7° 7 | 27°26 | 24° 6 | 24°28 | 14°51 | 12°25 | 13°46 | 26°41 | 25°21 | M28 |
| T 29 | 20 28 51 | 6°16'15 | 18°53 | 2°18 | 0♋12 | 15°31 | 7°20 | 27°34 | 24°R 6 | 24°27 | 14°53 | 12°18 | 13°43 | 26°47 | 25°R21 | T 29 |
| W30 | 20 32 47 | 7°13'40 | 0♒57 | 3°34 | 0°32 | 16° 7 | 7°32 | 27°42 | 24° 6 | 24°25 | 14°54 | 12°12 | 13°40 | 26°54 | 25°21 | W30 |
| T 31 | 20 36 44 | 8♌11'06 | 13♒ 9 | 4♍47 | 0♋54 | 16♎43 | 7♋45 | 27♋49 | 24♈ 6 | 24♒24 | 14♋56 | 12♍ 8 | 13♍37 | 27♐ 1 | 25♈21 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 8 | 18s35 | 4n32 | 24n21 | 1n39 | 19n28 | 3s54 | 0n20 | 0n16 | 23n20 | 0s 9 | 21n32 | 0n11 | 8n41 | 0s36 | 13s39 | 0s29 | 22n12 | 0s31 | 6n20 | 5n50 | 18s14 | 10n15 | 0n36 |
| W 2 | 23 4 | 17 45 | 3 58 | 24 11 | 1 43 | 19 18 | 4 6 | 0 6 | 0 15 | 23 20 | 0 9 | 21 31 | 0 11 | 8 42 | 0 36 | 13 39 | 0 29 | 22 12 | 0 31 | 6 24 | 5 52 | 18 15 | 10 15 | 0 36 |
| T 3 | 22 59 | 16 8 | 3 14 | 23 57 | 1 46 | 19 8 | 4 17 | 0s 8 | 0 14 | 23 19 | 0 9 | 21 29 | 0 11 | 8 42 | 0 36 | 13 40 | 0 29 | 22 12 | 0 31 | 6 27 | 5 53 | 18 15 | 10 16 | 0 36 |
| F 4 | 22 54 | 13 47 | 2 20 | 23 42 | 1 48 | 18 58 | 4 28 | 0 21 | 0 13 | 23 19 | 0 9 | 21 28 | 0 11 | 8 43 | 0 36 | 13 40 | 0 29 | 22 12 | 0 31 | 6 29 | 5 54 | 18 16 | 10 16 | 0 36 |
| S 5 | 22 48 | 10 47 | 1 19 | 23 24 | 1 50 | 18 49 | 4 38 | 0 35 | 0 12 | 23 19 | 0 8 | 21 27 | 0 11 | 8 43 | 0 36 | 13 41 | 0 29 | 22 12 | 0 31 | 6 30 | 5 55 | 18 16 | 10 17 | 0 36 |
| S 6 | 22 43 | 7 16 | 0 13 | 23 4 | 1 51 | 18 40 | 4 47 | 0 49 | 0 10 | 23 19 | 0 8 | 21 26 | 0 11 | 8 44 | 0 36 | 13 41 | 0 29 | 22 12 | 0 31 | 6 31 | 5 57 | 18 17 | 10 17 | 0 35 |
| M 7 | 22 36 | 3 21 | 0s54 | 22 42 | 1 51 | 18 32 | 4 56 | 1 3 | 0 9 | 23 19 | 0 8 | 21 24 | 0 11 | 8 44 | 0 36 | 13 41 | 0 29 | 22 12 | 0 31 | 6 31 | 5 58 | 18 17 | 10 17 | 0 35 |
| T 8 | 22 30 | 0n48 | 2 1 | 22 18 | 1 51 | 18 25 | 5 4 | 1 17 | 0 8 | 23 19 | 0 8 | 21 23 | 0 12 | 8 44 | 0 36 | 13 42 | 0 30 | 22 12 | 0 31 | 6 30 | 5 59 | 18 18 | 10 18 | 0 35 |
| W 9 | 22 22 | 5 1 | 3 3 | 21 53 | 1 49 | 18 17 | 5 11 | 1 31 | 0 7 | 23 19 | 0 8 | 21 22 | 0 12 | 8 45 | 0 36 | 13 42 | 0 30 | 22 11 | 0 31 | 6 30 | 6 0 | 18 18 | 10 18 | 0 35 |
| T 10 | 22 15 | 9 5 | 3 56 | 21 26 | 1 48 | 18 11 | 5 18 | 1 45 | 0 6 | 23 18 | 0 8 | 21 20 | 0 12 | 8 45 | 0 36 | 13 43 | 0 30 | 22 11 | 0 31 | 6 31 | 6 1 | 18 18 | 10 19 | 0 35 |
| F 11 | 22 7 | 12 46 | 4 37 | 20 57 | 1 45 | 18 5 | 5 24 | 1 59 | 0 5 | 23 18 | 0 8 | 21 19 | 0 12 | 8 45 | 0 36 | 13 43 | 0 30 | 22 11 | 0 31 | 6 32 | 6 3 | 18 19 | 10 19 | 0 35 |
| S 12 | 21 59 | 15 47 | 5 1 | 20 28 | 1 42 | 17 59 | 5 29 | 2 13 | 0 4 | 23 18 | 0 8 | 21 18 | 0 12 | 8 46 | 0 36 | 13 44 | 0 30 | 22 11 | 0 31 | 6 34 | 6 4 | 18 19 | 10 19 | 0 35 |
| S 13 | 21 50 | 17 49 | 5 6 | 19 57 | 1 39 | 17 54 | 5 34 | 2 27 | 0 3 | 23 18 | 0 8 | 21 16 | 0 12 | 8 46 | 0 36 | 13 44 | 0 30 | 22 11 | 0 31 | 6 36 | 6 5 | 18 20 | 10 20 | 0 35 |
| M14 | 21 41 | 18 38 | 4 49 | 19 25 | 1 35 | 17 50 | 5 39 | 2 42 | 0 2 | 23 17 | 0 8 | 21 15 | 0 12 | 8 46 | 0 36 | 13 44 | 0 30 | 22 11 | 0 31 | 6 39 | 6 6 | 18 20 | 10 20 | 0 35 |
| T 15 | 21 32 | 18 8 | 4 12 | 18 52 | 1 30 | 17 46 | 5 42 | 2 56 | 0 1 | 23 17 | 0 8 | 21 14 | 0 12 | 8 46 | 0 36 | 13 45 | 0 30 | 22 11 | 0 30 | 6 42 | 6 8 | 18 20 | 10 20 | 0 35 |
| W16 | 21 22 | 16 22 | 3 19 | 18 18 | 1 25 | 17 43 | 5 45 | 3 10 | 0s 0 | 23 17 | 0 7 | 21 12 | 0 12 | 8 47 | 0 36 | 13 45 | 0 30 | 22 11 | 0 30 | 6 44 | 6 9 | 18 21 | 10 20 | 0 35 |
| T 17 | 21 12 | 13 32 | 2 12 | 17 44 | 1 20 | 17 40 | 5 48 | 3 25 | 0 1 | 23 16 | 0 7 | 21 11 | 0 12 | 8 47 | 0 36 | 13 46 | 0 30 | 22 11 | 0 30 | 6 46 | 6 10 | 18 21 | 10 20 | 0 35 |
| F 18 | 21 2 | 9 56 | 0 59 | 17 9 | 1 14 | 17 38 | 5 50 | 3 39 | 0 2 | 23 16 | 0 7 | 21 10 | 0 12 | 8 47 | 0 36 | 13 46 | 0 30 | 22 11 | 0 30 | 6 47 | 6 11 | 18 22 | 10 21 | 0 35 |
| S 19 | 20 51 | 5 53 | 0n16 | 16 33 | 1 7 | 17 37 | 5 52 | 3 53 | 0 3 | 23 15 | 0 7 | 21 8 | 0 13 | 8 47 | 0 36 | 13 47 | 0 30 | 22 10 | 0 30 | 6 47 | 6 13 | 18 22 | 10 21 | 0 35 |
| S 20 | 20 40 | 1 41 | 1 28 | 15 57 | 1 1 | 17 35 | 5 53 | 4 8 | 0 4 | 23 15 | 0 7 | 21 7 | 0 13 | 8 47 | 0 36 | 13 47 | 0 30 | 22 10 | 0 30 | 6 47 | 6 14 | 18 22 | 10 21 | 0 35 |
| M21 | 20 28 | 2s29 | 2 32 | 15 21 | 0 53 | 17 35 | 5 54 | 4 22 | 0 5 | 23 15 | 0 7 | 21 5 | 0 13 | 8 48 | 0 36 | 13 48 | 0 30 | 22 10 | 0 30 | 6 46 | 6 15 | 18 23 | 10 21 | 0 35 |
| T 22 | 20 16 | 6 24 | 3 28 | 14 44 | 0 46 | 17 35 | 5 54 | 4 37 | 0 6 | 23 14 | 0 7 | 21 4 | 0 13 | 8 48 | 0 36 | 13 48 | 0 30 | 22 10 | 0 30 | 6 46 | 6 16 | 18 23 | 10 21 | 0 35 |
| W23 | 20 4 | 9 57 | 4 12 | 14 7 | 0 38 | 17 35 | 5 54 | 4 51 | 0 7 | 23 14 | 0 7 | 21 3 | 0 13 | 8 48 | 0 36 | 13 49 | 0 30 | 22 10 | 0 30 | 6 46 | 6 17 | 18 23 | 10 21 | 0 35 |
| T 24 | 19 52 | 13 1 | 4 44 | 13 30 | 0 30 | 17 35 | 5 53 | 5 6 | 0 8 | 23 13 | 0 7 | 21 1 | 0 13 | 8 48 | 0 36 | 13 49 | 0 30 | 22 10 | 0 30 | 6 47 | 6 19 | 18 24 | 10 21 | 0 35 |
| F 25 | 19 39 | 15 29 | 5 4 | 12 53 | 0 21 | 17 36 | 5 52 | 5 21 | 0 9 | 23 13 | 0 7 | 21 0 | 0 13 | 8 48 | 0 36 | 13 50 | 0 30 | 22 10 | 0 30 | 6 48 | 6 20 | 18 24 | 10 21 | 0 35 |
| S 26 | 19 26 | 17 17 | 5 10 | 12 16 | 0 12 | 17 38 | 5 51 | 5 35 | 0 10 | 23 12 | 0 7 | 20 58 | 0 13 | 8 48 | 0 36 | 13 50 | 0 30 | 22 10 | 0 30 | 6 50 | 6 21 | 18 25 | 10 21 | 0 35 |
| S 27 | 19 12 | 18 21 | 5 3 | 11 39 | 0 3 | 17 39 | 5 49 | 5 50 | 0 11 | 23 11 | 0 6 | 20 57 | 0 13 | 8 48 | 0 36 | 13 51 | 0 30 | 22 10 | 0 30 | 6 52 | 6 22 | 18 25 | 10 22 | 0 35 |
| M28 | 18 58 | 18 36 | 4 42 | 11 2 | 0s 6 | 17 41 | 5 47 | 6 5 | 0 12 | 23 11 | 0 6 | 20 55 | 0 13 | 8 48 | 0 36 | 13 51 | 0 30 | 22 9 | 0 30 | 6 55 | 6 24 | 18 25 | 10 21 | 0 34 |
| T 29 | 18 44 | 18 2 | 4 9 | 10 26 | 0 16 | 17 44 | 5 45 | 6 19 | 0 13 | 23 10 | 0 6 | 20 54 | 0 13 | 8 48 | 0 36 | 13 52 | 0 30 | 22 9 | 0 30 | 6 57 | 6 25 | 18 26 | 10 21 | 0 34 |
| W30 | 18 30 | 16 38 | 3 25 | 9 49 | 0 26 | 17 46 | 5 43 | 6 34 | 0 14 | 23 10 | 0 6 | 20 53 | 0 13 | 8 48 | 0 36 | 13 52 | 0 30 | 22 9 | 0 30 | 7 0 | 6 26 | 18 26 | 10 21 | 0 34 |
| T 31 | 18n15 | 14s29 | 2n31 | 9n13 | 0s36 | 17n49 | 5s40 | 6s49 | 0s15 | 23n 9 | 0s 6 | 20n51 | 0n14 | 8n48 | 0s37 | 13s53 | 0s30 | 22n 9 | 0s30 | 7n 1 | 6n27 | 18s26 | 10n21 | 0n34 |

Julian Day Number = 2335214.5, Delta T = 22.81 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'40, Lahiri = 19°24'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## AUGUST 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 40 40 | 9♌ 8'34 | 25♒30 | 5♍59 | 1♋17 | 17♎19 | 7♋58 | 27♋57 | 24°R 6 | 24°R22 | 14♋57 | 12°R 5 | 13♍34 | 27♐ 8 | 25°R21 | F 1 |
| S 2 | 20 44 37 | 10° 6'02 | 8♓ 0 | 7° 7 | 1°42 | 17°55 | 8°10 | 28° 5 | 24♈ 6 | 24♒20 | 14°59 | 12°D 4 | 13°30 | 27°14 | 25♈21 | S 2 |
| S 3 | 20 48 33 | 11° 3'31 | 20°43 | 8°14 | 2° 8 | 18°32 | 8°23 | 28°12 | 24° 6 | 24°19 | 15° 0 | 12♍ 4 | 13°27 | 27°21 | 25°21 | S 3 |
| M 4 | 20 52 30 | 12° 1'02 | 3♈38 | 9°18 | 2°36 | 19° 8 | 8°35 | 28°20 | 24° 6 | 24°17 | 15° 1 | 12° 5 | 13°24 | 27°28 | 25°20 | M 4 |
| T 5 | 20 56 26 | 12°58'33 | 16°48 | 10°20 | 3° 6 | 19°45 | 8°48 | 28°28 | 24° 5 | 24°16 | 15° 3 | 12° 7 | 13°21 | 27°34 | 25°20 | T 5 |
| W 6 | 21 0 23 | 13°56'07 | 0♉15 | 11°18 | 3°37 | 20°21 | 9° 0 | 28°35 | 24° 5 | 24°14 | 15° 4 | 12° 8 | 13°18 | 27°41 | 25°20 | W 6 |
| T 7 | 21 4 20 | 14°53'42 | 14° 0 | 12°14 | 4°10 | 20°58 | 9°12 | 28°43 | 24° 5 | 24°12 | 15° 6 | 12°R 9 | 13°15 | 27°48 | 25°19 | T 7 |
| F 8 | 21 8 16 | 15°51'18 | 28° 3 | 13° 8 | 4°43 | 21°35 | 9°24 | 28°50 | 24° 4 | 24°11 | 15° 7 | 12° 8 | 13°11 | 27°55 | 25°19 | F 8 |
| S 9 | 21 12 13 | 16°48'56 | 12♊23 | 13°58 | 5°19 | 22°12 | 9°37 | 28°58 | 24° 4 | 24° 9 | 15° 8 | 12° 7 | 13° 8 | 28° 1 | 25°18 | S 9 |
| S 10 | 21 16 9 | 17°46'35 | 26°58 | 14°44 | 5°55 | 22°50 | 9°49 | 29° 5 | 24° 3 | 24° 8 | 15°10 | 12° 4 | 13° 5 | 28° 8 | 25°17 | S 10 |
| M11 | 21 20 6 | 18°44'16 | 11♋42 | 15°28 | 6°32 | 23°27 | 10° 1 | 29°13 | 24° 3 | 24° 6 | 15°11 | 12° 1 | 13° 2 | 28°15 | 25°17 | M11 |
| T 12 | 21 24 2 | 19°41'59 | 26°29 | 16° 7 | 7°11 | 24° 5 | 10°13 | 29°20 | 24° 2 | 24° 4 | 15°13 | 11°58 | 12°59 | 28°22 | 25°16 | T 12 |
| W13 | 21 27 59 | 20°39'43 | 11♌12 | 16°43 | 7°51 | 24°42 | 10°25 | 29°28 | 24° 1 | 24° 3 | 15°14 | 11°55 | 12°56 | 28°28 | 25°15 | W13 |
| T 14 | 21 31 56 | 21°37'28 | 25°43 | 17°15 | 8°32 | 25°20 | 10°36 | 29°35 | 24° 1 | 24° 1 | 15°15 | 11°54 | 12°52 | 28°35 | 25°14 | T 14 |
| F 15 | 21 35 52 | 22°35'15 | 9♍56 | 17°42 | 9°14 | 25°58 | 10°48 | 29°43 | 24° 0 | 23°59 | 15°16 | 11°D53 | 12°49 | 28°42 | 25°13 | F 15 |
| S 16 | 21 39 49 | 23°33'03 | 23°47 | 18° 5 | 9°57 | 26°36 | 11° 0 | 29°50 | 23°59 | 23°58 | 15°18 | 11°53 | 12°46 | 28°48 | 25°13 | S 16 |
| S 17 | 21 43 45 | 24°30'52 | 7♎15 | 18°23 | 10°41 | 27°14 | 11°11 | 29°57 | 23°58 | 23°56 | 15°19 | 11°54 | 12°43 | 28°55 | 25°11 | S 17 |
| M18 | 21 47 42 | 25°28'43 | 20°19 | 18°37 | 11°25 | 27°52 | 11°23 | 0♌ 5 | 23°57 | 23°55 | 15°20 | 11°56 | 12°40 | 29° 2 | 25°10 | M18 |
| T 19 | 21 51 38 | 26°26'34 | 3♏ 1 | 18°44 | 12°11 | 28°30 | 11°34 | 0°12 | 23°56 | 23°53 | 15°22 | 11°57 | 12°36 | 29° 9 | 25° 9 | T 19 |
| W20 | 21 55 35 | 27°24'27 | 15°25 | 18°R47 | 12°58 | 29° 9 | 11°46 | 0°19 | 23°55 | 23°51 | 15°23 | 11°58 | 12°33 | 29°15 | 25° 8 | W20 |
| T 21 | 21 59 31 | 28°22'22 | 27°34 | 18°43 | 13°45 | 29°47 | 11°57 | 0°26 | 23°54 | 23°50 | 15°24 | 11°R58 | 12°30 | 29°22 | 25° 7 | T 21 |
| F 22 | 22 3 28 | 29°20'17 | 9♐33 | 18°34 | 14°33 | 0♏26 | 12° 8 | 0°34 | 23°53 | 23°48 | 15°25 | 11°58 | 12°27 | 29°29 | 25° 6 | F 22 |
| S 23 | 22 7 24 | 0♍18'14 | 21°27 | 18°19 | 15°22 | 1° 5 | 12°19 | 0°41 | 23°52 | 23°46 | 15°26 | 11°57 | 12°24 | 29°35 | 25° 4 | S 23 |
| S 24 | 22 11 21 | 1°16'12 | 3♑20 | 17°57 | 16°12 | 1°44 | 12°30 | 0°48 | 23°51 | 23°45 | 15°28 | 11°56 | 12°21 | 29°42 | 25° 3 | S 24 |
| M25 | 22 15 18 | 2°14'12 | 15°16 | 17°30 | 17° 2 | 2°23 | 12°41 | 0°55 | 23°50 | 23°43 | 15°29 | 11°55 | 12°17 | 29°49 | 25° 2 | M25 |
| T 26 | 22 19 14 | 3°12'13 | 27°18 | 16°57 | 17°53 | 3° 2 | 12°52 | 1° 2 | 23°48 | 23°41 | 15°30 | 11°53 | 12°14 | 29°56 | 25° 0 | T 26 |
| W27 | 22 23 11 | 4°10'16 | 9♒30 | 16°18 | 18°45 | 3°41 | 13° 3 | 1° 9 | 23°47 | 23°40 | 15°31 | 11°52 | 12°11 | 0♑ 2 | 24°59 | W27 |
| T 28 | 22 27 7 | 5° 8'20 | 21°53 | 15°33 | 19°37 | 4°20 | 13°14 | 1°16 | 23°46 | 23°38 | 15°32 | 11°52 | 12° 8 | 0° 9 | 24°57 | T 28 |
| F 29 | 22 31 4 | 6° 6'25 | 4♓29 | 14°44 | 20°30 | 5° 0 | 13°24 | 1°23 | 23°44 | 23°37 | 15°33 | 11°51 | 12° 5 | 0°16 | 24°55 | F 29 |
| S 30 | 22 35 0 | 7° 4'33 | 17°18 | 13°51 | 21°24 | 5°39 | 13°35 | 1°29 | 23°43 | 23°35 | 15°34 | 11°D51 | 12° 2 | 0°22 | 24°54 | S 30 |
| S 31 | 22 38 57 | 8♍ 2'42 | 0♈22 | 12♍55 | 22♋18 | 6♏19 | 13♋45 | 1♌36 | 23♈41 | 23♒33 | 15♋35 | 11♍51 | 11♍58 | 0♑29 | 24♈52 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18n 0 | 11s38 | 1n29 | 8n37 | 0s46 | 17n51 | 5s37 | 7s 3 | 0s16 | 23n 8 | 0s 6 | 20n50 | 0n14 | 8n48 | 0s37 | 13s54 | 0s30 | 22n 9 | 0s29 | 7n 2 | 6n28 | 18s27 | 10n21 | 0n34 |
| S 2 | 17 45 | 8 14 | 0 22 | 8 2 | 0 56 | 17 54 | 5 34 | 7 18 | 0 17 | 23 8 | 0 6 | 20 48 | 0 14 | 8 48 | 0 37 | 13 54 | 0 30 | 22 9 | 0 29 | 7 3 | 6 30 | 18 27 | 10 21 | 0 34 |
| S 3 | 17 29 | 4 25 | 0s47 | 7 28 | 1 7 | 17 57 | 5 30 | 7 33 | 0 18 | 23 7 | 0 6 | 20 47 | 0 14 | 8 48 | 0 37 | 13 55 | 0 30 | 22 9 | 0 29 | 7 3 | 6 31 | 18 27 | 10 21 | 0 34 |
| M 4 | 17 13 | 0 19 | 1 55 | 6 54 | 1 17 | 18 0 | 5 27 | 7 47 | 0 18 | 23 6 | 0 6 | 20 45 | 0 14 | 8 48 | 0 37 | 13 55 | 0 30 | 22 9 | 0 29 | 7 2 | 6 32 | 18 28 | 10 21 | 0 34 |
| T 5 | 16 57 | 3n52 | 2 59 | 6 21 | 1 28 | 18 4 | 5 23 | 8 2 | 0 19 | 23 6 | 0 6 | 20 44 | 0 14 | 8 47 | 0 37 | 13 56 | 0 30 | 22 9 | 0 29 | 7 2 | 6 33 | 18 28 | 10 21 | 0 34 |
| W 6 | 16 40 | 7 55 | 3 54 | 5 48 | 1 39 | 18 7 | 5 19 | 8 17 | 0 20 | 23 5 | 0 6 | 20 42 | 0 14 | 8 47 | 0 37 | 13 56 | 0 30 | 22 8 | 0 29 | 7 1 | 6 35 | 18 28 | 10 20 | 0 34 |
| T 7 | 16 24 | 11 39 | 4 37 | 5 17 | 1 50 | 18 10 | 5 15 | 8 31 | 0 21 | 23 4 | 0 5 | 20 41 | 0 14 | 8 47 | 0 37 | 13 57 | 0 30 | 22 8 | 0 29 | 7 1 | 6 36 | 18 29 | 10 20 | 0 34 |
| F 8 | 16 7 | 14 48 | 5 5 | 4 46 | 2 1 | 18 13 | 5 11 | 8 46 | 0 22 | 23 3 | 0 5 | 20 40 | 0 14 | 8 47 | 0 37 | 13 57 | 0 30 | 22 8 | 0 29 | 7 1 | 6 37 | 18 29 | 10 20 | 0 34 |
| S 9 | 15 49 | 17 8 | 5 14 | 4 17 | 2 12 | 18 16 | 5 6 | 9 1 | 0 23 | 23 3 | 0 5 | 20 38 | 0 14 | 8 47 | 0 37 | 13 58 | 0 30 | 22 8 | 0 29 | 7 2 | 6 38 | 18 29 | 10 20 | 0 34 |
| S 10 | 15 32 | 18 23 | 5 3 | 3 49 | 2 23 | 18 19 | 5 2 | 9 15 | 0 24 | 23 2 | 0 5 | 20 37 | 0 15 | 8 47 | 0 37 | 13 58 | 0 30 | 22 8 | 0 29 | 7 3 | 6 39 | 18 30 | 10 19 | 0 34 |
| M11 | 15 14 | 18 26 | 4 33 | 3 22 | 2 34 | 18 22 | 4 57 | 9 30 | 0 24 | 23 1 | 0 5 | 20 35 | 0 15 | 8 46 | 0 37 | 13 59 | 0 30 | 22 8 | 0 29 | 7 4 | 6 41 | 18 30 | 10 19 | 0 34 |
| T 12 | 14 56 | 17 13 | 3 44 | 2 57 | 2 45 | 18 25 | 4 52 | 9 45 | 0 25 | 23 0 | 0 5 | 20 34 | 0 15 | 8 46 | 0 37 | 14 0 | 0 30 | 22 8 | 0 29 | 7 5 | 6 42 | 18 30 | 10 19 | 0 34 |
| W13 | 14 38 | 14 52 | 2 41 | 2 33 | 2 56 | 18 28 | 4 47 | 9 59 | 0 26 | 22 59 | 0 5 | 20 32 | 0 15 | 8 46 | 0 37 | 14 0 | 0 30 | 22 8 | 0 29 | 7 6 | 6 43 | 18 31 | 10 18 | 0 34 |
| T 14 | 14 19 | 11 35 | 1 28 | 2 11 | 3 6 | 18 30 | 4 42 | 10 14 | 0 27 | 22 58 | 0 5 | 20 31 | 0 15 | 8 45 | 0 37 | 14 1 | 0 30 | 22 8 | 0 29 | 7 7 | 6 44 | 18 31 | 10 18 | 0 34 |
| F 15 | 14 0 | 7 41 | 0 11 | 1 51 | 3 16 | 18 33 | 4 37 | 10 28 | 0 28 | 22 58 | 0 5 | 20 29 | 0 15 | 8 45 | 0 37 | 14 1 | 0 30 | 22 8 | 0 29 | 7 7 | 6 45 | 18 31 | 10 18 | 0 34 |
| S 16 | 13 41 | 3 28 | 1n 5 | 1 33 | 3 26 | 18 35 | 4 32 | 10 43 | 0 28 | 22 57 | 0 5 | 20 28 | 0 15 | 8 45 | 0 37 | 14 2 | 0 30 | 22 7 | 0 29 | 7 7 | 6 47 | 18 32 | 10 17 | 0 34 |
| S 17 | 13 22 | 0s48 | 2 16 | 1 17 | 3 36 | 18 37 | 4 27 | 10 57 | 0 29 | 22 56 | 0 5 | 20 26 | 0 15 | 8 45 | 0 37 | 14 2 | 0 30 | 22 7 | 0 29 | 7 6 | 6 48 | 18 32 | 10 17 | 0 33 |
| M18 | 13 3 | 4 55 | 3 17 | 1 4 | 3 45 | 18 38 | 4 22 | 11 12 | 0 30 | 22 55 | 0 4 | 20 25 | 0 15 | 8 44 | 0 37 | 14 3 | 0 30 | 22 7 | 0 29 | 7 6 | 6 49 | 18 32 | 10 16 | 0 33 |
| T 19 | 12 43 | 8 41 | 4 6 | 0 53 | 3 54 | 18 40 | 4 16 | 11 26 | 0 31 | 22 54 | 0 4 | 20 23 | 0 15 | 8 44 | 0 37 | 14 3 | 0 30 | 22 7 | 0 29 | 7 5 | 6 50 | 18 33 | 10 16 | 0 33 |
| W20 | 12 24 | 11 58 | 4 43 | 0 45 | 4 2 | 18 41 | 4 11 | 11 41 | 0 31 | 22 53 | 0 4 | 20 22 | 0 15 | 8 43 | 0 37 | 14 4 | 0 30 | 22 7 | 0 28 | 7 5 | 6 52 | 18 33 | 10 16 | 0 33 |
| T 21 | 12 4 | 14 40 | 5 6 | 0 39 | 4 9 | 18 42 | 4 5 | 11 55 | 0 32 | 22 52 | 0 4 | 20 21 | 0 16 | 8 43 | 0 37 | 14 5 | 0 30 | 22 7 | 0 28 | 7 5 | 6 53 | 18 33 | 10 15 | 0 33 |
| F 22 | 11 43 | 16 43 | 5 16 | 0 37 | 4 15 | 18 43 | 4 0 | 12 9 | 0 33 | 22 51 | 0 4 | 20 19 | 0 16 | 8 43 | 0 37 | 14 5 | 0 30 | 22 7 | 0 28 | 7 5 | 6 54 | 18 33 | 10 15 | 0 33 |
| S 23 | 11 23 | 18 1 | 5 12 | 0 38 | 4 20 | 18 43 | 3 54 | 12 24 | 0 34 | 22 50 | 0 4 | 20 18 | 0 16 | 8 42 | 0 37 | 14 6 | 0 30 | 22 7 | 0 28 | 7 5 | 6 55 | 18 34 | 10 14 | 0 33 |
| S 24 | 11 2 | 18 32 | 4 55 | 0 43 | 4 24 | 18 43 | 3 49 | 12 38 | 0 34 | 22 50 | 0 4 | 20 16 | 0 16 | 8 42 | 0 37 | 14 6 | 0 30 | 22 7 | 0 28 | 7 6 | 6 56 | 18 34 | 10 13 | 0 33 |
| M25 | 10 42 | 18 13 | 4 24 | 0 51 | 4 27 | 18 42 | 3 43 | 12 52 | 0 35 | 22 49 | 0 4 | 20 15 | 0 16 | 8 41 | 0 37 | 14 7 | 0 30 | 22 7 | 0 28 | 7 6 | 6 58 | 18 34 | 10 13 | 0 33 |
| T 26 | 10 21 | 17 6 | 3 42 | 1 3 | 4 28 | 18 42 | 3 37 | 13 6 | 0 36 | 22 48 | 0 4 | 20 13 | 0 16 | 8 41 | 0 37 | 14 7 | 0 30 | 22 7 | 0 28 | 7 7 | 6 59 | 18 34 | 10 12 | 0 33 |
| W27 | 10 0 | 15 10 | 2 50 | 1 18 | 4 28 | 18 40 | 3 31 | 13 20 | 0 37 | 22 47 | 0 4 | 20 12 | 0 16 | 8 40 | 0 37 | 14 8 | 0 30 | 22 7 | 0 28 | 7 7 | 7 0 | 18 35 | 10 12 | 0 33 |
| T 28 | 9 39 | 12 32 | 1 48 | 1 37 | 4 26 | 18 39 | 3 26 | 13 34 | 0 37 | 22 46 | 0 3 | 20 11 | 0 16 | 8 40 | 0 37 | 14 8 | 0 30 | 22 6 | 0 28 | 7 8 | 7 1 | 18 35 | 10 11 | 0 33 |
| F 29 | 9 17 | 9 15 | 0 41 | 1 59 | 4 22 | 18 37 | 3 20 | 13 48 | 0 38 | 22 45 | 0 3 | 20 9 | 0 16 | 8 39 | 0 37 | 14 9 | 0 30 | 22 6 | 0 28 | 7 8 | 7 3 | 18 35 | 10 10 | 0 33 |
| S 30 | 8 56 | 5 29 | 0s30 | 2 25 | 4 16 | 18 35 | 3 14 | 14 2 | 0 39 | 22 44 | 0 3 | 20 8 | 0 17 | 8 39 | 0 37 | 14 9 | 0 30 | 22 6 | 0 28 | 7 8 | 7 4 | 18 36 | 10 10 | 0 33 |
| S 31 | 8n34 | 1s24 | 1s41 | 2n53 | 4s 9 | 18n32 | 3s 8 | 14s16 | 0s39 | 22n43 | 0s 3 | 20n 6 | 0n17 | 8n38 | 0s37 | 14s10 | 0s30 | 22n 6 | 0s28 | 7n 8 | 7n 5 | 18s36 | 10n 9 | 0n33 |

Julian Day Number = 2335245.5, Delta T = 22.77 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'44, Lahiri = 19°24'45Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## SEPTEMBER 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 42 53 | 9♍ 0'53 | 13♈40 | 11°R56 | 23♋13 | 6♏58 | 13♋56 | 1♌43 | 23°R40 | 23°R32 | 15♋36 | 11♍52 | 11♍55 | 0♉36 | 24°R50 | M 1 |
| T 2 | 22 46 50 | 9°59'06 | 27°10 | 10♍57 | 24° 8 | 7°38 | 14° 6 | 1°50 | 23♈38 | 23♒30 | 15°37 | 11°52 | 11°52 | 0°43 | 24♈48 | T 2 |
| W 3 | 22 50 47 | 10°57'21 | 10♉53 | 9°58 | 25° 4 | 8°18 | 14°16 | 1°56 | 23°37 | 23°29 | 15°38 | 11°52 | 11°49 | 0°49 | 24°47 | W 3 |
| T 4 | 22 54 43 | 11°55'38 | 24°47 | 9° 1 | 26° 1 | 8°58 | 14°26 | 2° 3 | 23°35 | 23°27 | 15°39 | 11°R52 | 11°46 | 0°56 | 24°45 | T 4 |
| F 5 | 22 58 40 | 12°53'57 | 8♊51 | 8° 7 | 26°58 | 9°38 | 14°36 | 2° 9 | 23°33 | 23°26 | 15°40 | 11°D52 | 11°42 | 1° 3 | 24°43 | F 5 |
| S 6 | 23 2 36 | 13°52'18 | 23° 3 | 7°17 | 27°55 | 10°18 | 14°46 | 2°16 | 23°32 | 23°24 | 15°41 | 11°52 | 11°39 | 1° 9 | 24°41 | S 6 |
| S 7 | 23 6 33 | 14°50'42 | 7♋21 | 6°33 | 28°53 | 10°59 | 14°56 | 2°22 | 23°30 | 23°23 | 15°42 | 11°52 | 11°36 | 1°16 | 24°39 | S 7 |
| M 8 | 23 10 29 | 15°49'07 | 21°42 | 5°55 | 29°51 | 11°39 | 15° 5 | 2°29 | 23°28 | 23°21 | 15°43 | 11°53 | 11°33 | 1°23 | 24°37 | M 8 |
| T 9 | 23 14 26 | 16°47'35 | 6♌ 2 | 5°25 | 0♌50 | 12°20 | 15°15 | 2°35 | 23°26 | 23°20 | 15°44 | 11°53 | 11°30 | 1°30 | 24°35 | T 9 |
| W10 | 23 18 22 | 17°46'05 | 20°17 | 5° 4 | 1°49 | 13° 0 | 15°24 | 2°41 | 23°25 | 23°18 | 15°45 | 11°53 | 11°27 | 1°36 | 24°32 | W10 |
| T 11 | 23 22 19 | 18°44'37 | 4♍24 | 4°51 | 2°49 | 13°41 | 15°33 | 2°48 | 23°23 | 23°17 | 15°45 | 11°54 | 11°23 | 1°43 | 24°30 | T 11 |
| F 12 | 23 26 16 | 19°43'11 | 18°18 | 4°D48 | 3°49 | 14°22 | 15°43 | 2°54 | 23°21 | 23°15 | 15°46 | 11°R54 | 11°20 | 1°50 | 24°28 | F 12 |
| S 13 | 23 30 12 | 20°41'46 | 1♎55 | 4°54 | 4°50 | 15° 3 | 15°52 | 3° 0 | 23°19 | 23°14 | 15°47 | 11°53 | 11°17 | 1°56 | 24°26 | S 13 |
| S 14 | 23 34 9 | 21°40'24 | 15°15 | 5°10 | 5°50 | 15°44 | 16° 0 | 3° 6 | 23°17 | 23°13 | 15°48 | 11°52 | 11°14 | 2° 3 | 24°23 | S 14 |
| M15 | 23 38 5 | 22°39'03 | 28°15 | 5°36 | 6°52 | 16°25 | 16° 9 | 3°12 | 23°15 | 23°11 | 15°49 | 11°51 | 11°11 | 2°10 | 24°21 | M15 |
| T 16 | 23 42 2 | 23°37'45 | 10♏56 | 6°10 | 7°53 | 17° 6 | 16°18 | 3°18 | 23°13 | 23°10 | 15°49 | 11°50 | 11° 7 | 2°17 | 24°19 | T 16 |
| W17 | 23 45 58 | 24°36'28 | 23°20 | 6°54 | 8°55 | 17°47 | 16°27 | 3°24 | 23°11 | 23° 8 | 15°50 | 11°48 | 11° 4 | 2°23 | 24°16 | W17 |
| T 18 | 23 49 55 | 25°35'13 | 5♐31 | 7°45 | 9°57 | 18°29 | 16°35 | 3°29 | 23° 9 | 23° 7 | 15°51 | 11°47 | 11° 1 | 2°30 | 24°14 | T 18 |
| F 19 | 23 53 51 | 26°33'59 | 17°31 | 8°45 | 11° 0 | 19°10 | 16°43 | 3°35 | 23° 7 | 23° 6 | 15°51 | 11°46 | 10°58 | 2°37 | 24°11 | F 19 |
| S 20 | 23 57 48 | 27°32'48 | 29°25 | 9°51 | 12° 3 | 19°52 | 16°51 | 3°41 | 23° 5 | 23° 5 | 15°52 | 11°D45 | 10°55 | 2°43 | 24° 9 | S 20 |
| S 21 | 0 1 44 | 28°31'38 | 11♑17 | 11° 4 | 13° 6 | 20°33 | 16°59 | 3°46 | 23° 2 | 23° 3 | 15°53 | 11°46 | 10°52 | 2°50 | 24° 6 | S 21 |
| M22 | 0 5 41 | 29°30'30 | 23°13 | 12°23 | 14° 9 | 21°15 | 17° 7 | 3°52 | 23° 0 | 23° 2 | 15°53 | 11°47 | 10°48 | 2°57 | 24° 4 | M22 |
| T 23 | 0 9 38 | 0♎29'23 | 5♒17 | 13°47 | 15°13 | 21°57 | 17°15 | 3°57 | 22°58 | 23° 1 | 15°54 | 11°48 | 10°45 | 3° 4 | 24° 1 | T 23 |
| W24 | 0 13 34 | 1°28'19 | 17°33 | 15°15 | 16°17 | 22°39 | 17°23 | 4° 3 | 22°56 | 23° 0 | 15°54 | 11°50 | 10°42 | 3°10 | 23°59 | W24 |
| T 25 | 0 17 31 | 2°27'16 | 0♓ 5 | 16°47 | 17°21 | 23°21 | 17°30 | 4° 8 | 22°54 | 22°58 | 15°55 | 11°51 | 10°39 | 3°17 | 23°56 | T 25 |
| F 26 | 0 21 27 | 3°26'15 | 12°54 | 18°22 | 18°26 | 24° 3 | 17°38 | 4°13 | 22°51 | 22°57 | 15°55 | 11°R52 | 10°36 | 3°24 | 23°53 | F 26 |
| S 27 | 0 25 24 | 4°25'16 | 26° 2 | 20° 0 | 19°31 | 24°45 | 17°45 | 4°18 | 22°49 | 22°56 | 15°56 | 11°51 | 10°33 | 3°30 | 23°51 | S 27 |
| S 28 | 0 29 20 | 5°24'19 | 9♈29 | 21°40 | 20°36 | 25°27 | 17°52 | 4°23 | 22°47 | 22°55 | 15°56 | 11°49 | 10°29 | 3°37 | 23°48 | S 28 |
| M29 | 0 33 17 | 6°23'24 | 23°14 | 23°22 | 21°42 | 26°10 | 17°59 | 4°28 | 22°45 | 22°54 | 15°57 | 11°46 | 10°26 | 3°44 | 23°45 | M29 |
| T 30 | 0 37 13 | 7♎22'31 | 7♉12 | 25♍ 6 | 22♌47 | 26♏52 | 18♋ 6 | 4♌33 | 22♈42 | 22♒53 | 15♋57 | 11♍43 | 10♍23 | 3♑51 | 23♈43 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8n12 | 2n50 | 2s47 | 3n24 | 3s59 | 18n29 | 3s 3 | 14s30 | 0s40 | 22n42 | 0s 3 | 20n 5 | 0n17 | 8n38 | 0s37 | 14s10 | 0s30 | 22n 6 | 0s28 | 7n 7 | 7n 6 | 18s36 | 10n 8 | 0n33 |
| T 2 | 7 50 | 6 58 | 3 46 | 3 57 | 3 48 | 18 25 | 2 57 | 14 43 | 0 41 | 22 41 | 0 3 | 20 4 | 0 17 | 8 37 | 0 37 | 14 11 | 0 30 | 22 6 | 0 28 | 7 7 | 7 7 | 18 36 | 10 8 | 0 33 |
| W 3 | 7 28 | 10 48 | 4 32 | 4 32 | 3 34 | 18 21 | 2 51 | 14 57 | 0 41 | 22 40 | 0 3 | 20 2 | 0 17 | 8 36 | 0 37 | 14 12 | 0 30 | 22 6 | 0 28 | 7 7 | 7 9 | 18 37 | 10 7 | 0 32 |
| T 4 | 7 6 | 14 5 | 5 3 | 5 7 | 3 20 | 18 17 | 2 45 | 15 10 | 0 42 | 22 39 | 0 3 | 20 1 | 0 17 | 8 36 | 0 37 | 14 12 | 0 30 | 22 6 | 0 28 | 7 7 | 7 10 | 18 37 | 10 6 | 0 32 |
| F 5 | 6 44 | 16 36 | 5 17 | 5 42 | 3 3 | 18 12 | 2 39 | 15 24 | 0 43 | 22 38 | 0 3 | 19 59 | 0 17 | 8 35 | 0 37 | 14 13 | 0 30 | 22 6 | 0 28 | 7 7 | 7 11 | 18 37 | 10 5 | 0 32 |
| S 6 | 6 21 | 18 7 | 5 11 | 6 17 | 2 46 | 18 6 | 2 33 | 15 37 | 0 43 | 22 37 | 0 3 | 19 58 | 0 17 | 8 34 | 0 37 | 14 13 | 0 30 | 22 6 | 0 28 | 7 7 | 7 12 | 18 37 | 10 5 | 0 32 |
| S 7 | 5 59 | 18 30 | 4 46 | 6 51 | 2 27 | 18 0 | 2 28 | 15 50 | 0 44 | 22 36 | 0 2 | 19 57 | 0 17 | 8 34 | 0 37 | 14 14 | 0 30 | 22 6 | 0 28 | 7 7 | 7 13 | 18 38 | 10 4 | 0 32 |
| M 8 | 5 36 | 17 43 | 4 4 | 7 22 | 2 8 | 17 54 | 2 22 | 16 4 | 0 45 | 22 35 | 0 2 | 19 55 | 0 17 | 8 33 | 0 37 | 14 14 | 0 30 | 22 6 | 0 27 | 7 7 | 7 15 | 18 38 | 10 3 | 0 32 |
| T 9 | 5 13 | 15 47 | 3 6 | 7 52 | 1 48 | 17 47 | 2 16 | 16 17 | 0 45 | 22 34 | 0 2 | 19 54 | 0 18 | 8 32 | 0 37 | 14 15 | 0 30 | 22 6 | 0 27 | 7 7 | 7 16 | 18 38 | 10 2 | 0 32 |
| W10 | 4 51 | 12 54 | 1 57 | 8 18 | 1 29 | 17 40 | 2 10 | 16 30 | 0 46 | 22 33 | 0 2 | 19 53 | 0 18 | 8 32 | 0 37 | 14 15 | 0 30 | 22 6 | 0 27 | 7 7 | 7 17 | 18 38 | 10 1 | 0 32 |
| T 11 | 4 28 | 9 16 | 0 41 | 8 40 | 1 9 | 17 32 | 2 5 | 16 43 | 0 46 | 22 32 | 0 2 | 19 51 | 0 18 | 8 31 | 0 37 | 14 16 | 0 30 | 22 6 | 0 27 | 7 7 | 7 18 | 18 38 | 10 0 | 0 32 |
| F 12 | 4 5 | 5 11 | 0n35 | 8 59 | 0 50 | 17 24 | 1 59 | 16 55 | 0 47 | 22 31 | 0 2 | 19 50 | 0 18 | 8 30 | 0 37 | 14 16 | 0 30 | 22 6 | 0 27 | 7 7 | 7 19 | 18 39 | 10 0 | 0 32 |
| S 13 | 3 42 | 0 54 | 1 49 | 9 14 | 0 32 | 17 16 | 1 53 | 17 8 | 0 48 | 22 30 | 0 2 | 19 49 | 0 18 | 8 30 | 0 37 | 14 16 | 0 30 | 22 6 | 0 27 | 7 7 | 7 21 | 18 39 | 9 59 | 0 32 |
| S 14 | 3 18 | 3s20 | 2 54 | 9 25 | 0 14 | 17 6 | 1 48 | 17 21 | 0 48 | 22 29 | 0 2 | 19 47 | 0 18 | 8 29 | 0 37 | 14 17 | 0 30 | 22 6 | 0 27 | 7 7 | 7 22 | 18 39 | 9 58 | 0 32 |
| M15 | 2 55 | 7 18 | 3 49 | 9 31 | 0n 3 | 16 57 | 1 42 | 17 33 | 0 49 | 22 28 | 0 2 | 19 46 | 0 18 | 8 28 | 0 37 | 14 17 | 0 30 | 22 5 | 0 27 | 7 8 | 7 23 | 18 39 | 9 57 | 0 32 |
| T 16 | 2 32 | 10 50 | 4 32 | 9 33 | 0 19 | 16 47 | 1 36 | 17 45 | 0 49 | 22 27 | 0 2 | 19 45 | 0 18 | 8 27 | 0 37 | 14 18 | 0 30 | 22 5 | 0 27 | 7 8 | 7 24 | 18 40 | 9 56 | 0 32 |
| W17 | 2 9 | 13 48 | 5 0 | 9 31 | 0 33 | 16 36 | 1 31 | 17 58 | 0 50 | 22 26 | 0 1 | 19 44 | 0 18 | 8 27 | 0 37 | 14 18 | 0 30 | 22 5 | 0 27 | 7 9 | 7 26 | 18 40 | 9 55 | 0 32 |
| T 18 | 1 45 | 16 6 | 5 14 | 9 24 | 0 47 | 16 25 | 1 25 | 18 10 | 0 50 | 22 26 | 0 1 | 19 42 | 0 19 | 8 26 | 0 37 | 14 19 | 0 30 | 22 5 | 0 27 | 7 9 | 7 27 | 18 40 | 9 54 | 0 32 |
| F 19 | 1 22 | 17 40 | 5 14 | 9 13 | 0 59 | 16 13 | 1 20 | 18 22 | 0 51 | 22 25 | 0 1 | 19 41 | 0 19 | 8 25 | 0 37 | 14 19 | 0 30 | 22 5 | 0 27 | 7 10 | 7 28 | 18 40 | 9 53 | 0 31 |
| S 20 | 0 59 | 18 27 | 5 1 | 8 58 | 1 10 | 16 1 | 1 14 | 18 34 | 0 52 | 22 24 | 0 1 | 19 40 | 0 19 | 8 24 | 0 37 | 14 20 | 0 30 | 22 5 | 0 27 | 7 10 | 7 29 | 18 40 | 9 52 | 0 31 |
| S 21 | 0 35 | 18 26 | 4 35 | 8 39 | 1 19 | 15 49 | 1 9 | 18 45 | 0 52 | 22 23 | 0 1 | 19 39 | 0 19 | 8 23 | 0 37 | 14 20 | 0 30 | 22 5 | 0 27 | 7 10 | 7 30 | 18 41 | 9 51 | 0 31 |
| M22 | 0 12 | 17 35 | 3 57 | 8 17 | 1 28 | 15 36 | 1 4 | 18 57 | 0 53 | 22 22 | 0 1 | 19 38 | 0 19 | 8 23 | 0 37 | 14 20 | 0 30 | 22 5 | 0 27 | 7 9 | 7 32 | 18 41 | 9 50 | 0 31 |
| T 23 | 0s12 | 15 56 | 3 8 | 7 51 | 1 35 | 15 22 | 0 58 | 19 8 | 0 53 | 22 21 | 0 1 | 19 36 | 0 19 | 8 22 | 0 37 | 14 21 | 0 30 | 22 5 | 0 27 | 7 9 | 7 33 | 18 41 | 9 49 | 0 31 |
| W24 | 0 35 | 13 32 | 2 10 | 7 22 | 1 41 | 15 8 | 0 53 | 19 20 | 0 54 | 22 20 | 0 1 | 19 35 | 0 19 | 8 21 | 0 37 | 14 21 | 0 30 | 22 5 | 0 27 | 7 8 | 7 34 | 18 41 | 9 48 | 0 31 |
| T 25 | 0 59 | 10 27 | 1 4 | 6 51 | 1 46 | 14 54 | 0 48 | 19 31 | 0 54 | 22 19 | 0 1 | 19 34 | 0 19 | 8 20 | 0 37 | 14 22 | 0 30 | 22 5 | 0 27 | 7 8 | 7 35 | 18 41 | 9 47 | 0 31 |
| F 26 | 1 22 | 6 49 | 0s 6 | 6 17 | 1 49 | 14 39 | 0 43 | 19 42 | 0 55 | 22 18 | 0 0 | 19 33 | 0 20 | 8 19 | 0 37 | 14 22 | 0 30 | 22 5 | 0 27 | 7 8 | 7 36 | 18 41 | 9 46 | 0 31 |
| S 27 | 1 46 | 2 46 | 1 17 | 5 41 | 1 52 | 14 24 | 0 38 | 19 53 | 0 55 | 22 18 | 0 0 | 19 32 | 0 20 | 8 18 | 0 37 | 14 22 | 0 30 | 22 5 | 0 26 | 7 8 | 7 38 | 18 42 | 9 45 | 0 31 |
| S 28 | 2 9 | 1n32 | 2 26 | 5 3 | 1 54 | 14 8 | 0 33 | 20 3 | 0 56 | 22 17 | 0 0 | 19 31 | 0 20 | 8 18 | 0 37 | 14 23 | 0 30 | 22 5 | 0 26 | 7 8 | 7 39 | 18 42 | 9 44 | 0 31 |
| M29 | 2 32 | 5 49 | 3 28 | 4 23 | 1 55 | 13 52 | 0 28 | 20 14 | 0 56 | 22 16 | 0 0 | 19 30 | 0 20 | 8 17 | 0 37 | 14 23 | 0 30 | 22 5 | 0 26 | 7 10 | 7 40 | 18 42 | 9 43 | 0 31 |
| T 30 | 2s56 | 9n52 | 4s18 | 3n43 | 1n55 | 13n35 | 0s23 | 20s24 | 0s57 | 22n15 | 0s 0 | 19n29 | 0n20 | 8n16 | 0s37 | 14s23 | 0s30 | 22n 5 | 0s26 | 7n11 | 7n41 | 18s42 | 9n42 | 0n31 |

Julian Day Number = 2335276.5, Delta T = 22.72 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'48, Lahiri = 19°24'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## OCTOBER 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 41 10 | 8♎21'41 | 21♉20 | 26♍50 | 23♌53 | 27♏35 | 18♋12 | 4♌38 | 22°R40 | 22°R52 | 15♋58 | 11°R39 | 10♍20 | 3♑57 | 23°R40 | W 1 |
| T 2 | 0 45 7 | 9°20'53 | 5♊35 | 28°35 | 24°59 | 28°17 | 18°19 | 4°43 | 22♈38 | 22♒51 | 15°58 | 11♍35 | 10°17 | 4° 4 | 23♈37 | T 2 |
| F 3 | 0 49 3 | 10°20'07 | 19°51 | 0♎20 | 26° 6 | 29° 0 | 18°25 | 4°47 | 22°35 | 22°50 | 15°58 | 11°33 | 10°13 | 4°11 | 23°34 | F 3 |
| S 4 | 0 53 0 | 11°19'23 | 4♋ 6 | 2° 6 | 27°13 | 29°43 | 18°31 | 4°52 | 22°33 | 22°49 | 15°59 | 11°31 | 10°10 | 4°17 | 23°31 | S 4 |
| S 5 | 0 56 56 | 12°18'42 | 18°17 | 3°52 | 28°19 | 0♐25 | 18°37 | 4°57 | 22°30 | 22°48 | 15°59 | 11°D31 | 10° 7 | 4°24 | 23°29 | S 5 |
| M 6 | 1 0 53 | 13°18'04 | 2♌22 | 5°38 | 29°27 | 1° 8 | 18°43 | 5° 1 | 22°28 | 22°47 | 15°59 | 11°32 | 10° 4 | 4°31 | 23°26 | M 6 |
| T 7 | 1 4 49 | 14°17'27 | 16°19 | 7°23 | 0♍34 | 1°51 | 18°49 | 5° 5 | 22°26 | 22°46 | 15°59 | 11°34 | 10° 1 | 4°38 | 23°23 | T 7 |
| W 8 | 1 8 46 | 15°16'53 | 0♍ 8 | 9° 8 | 1°41 | 2°34 | 18°54 | 5°10 | 22°23 | 22°45 | 16° 0 | 11°35 | 9°58 | 4°44 | 23°20 | W 8 |
| T 9 | 1 12 42 | 16°16'21 | 13°47 | 10°53 | 2°49 | 3°18 | 19° 0 | 5°14 | 22°21 | 22°44 | 16° 0 | 11°R35 | 9°54 | 4°51 | 23°17 | T 9 |
| F 10 | 1 16 39 | 17°15'52 | 27°15 | 12°38 | 3°57 | 4° 1 | 19° 5 | 5°18 | 22°18 | 22°44 | 16° 0 | 11°34 | 9°51 | 4°58 | 23°14 | F 10 |
| S 11 | 1 20 36 | 18°15'24 | 10♎31 | 14°22 | 5° 5 | 4°44 | 19°10 | 5°22 | 22°16 | 22°43 | 16° 0 | 11°31 | 9°48 | 5° 4 | 23°11 | S 11 |
| S 12 | 1 24 32 | 19°14'58 | 23°34 | 16° 5 | 6°14 | 5°28 | 19°15 | 5°26 | 22°13 | 22°42 | 16° 0 | 11°27 | 9°45 | 5°11 | 23° 8 | S 12 |
| M13 | 1 28 29 | 20°14'35 | 6♏23 | 17°48 | 7°22 | 6°11 | 19°19 | 5°29 | 22°11 | 22°41 | 16° 0 | 11°20 | 9°42 | 5°18 | 23° 6 | M13 |
| T 14 | 1 32 25 | 21°14'14 | 18°57 | 19°30 | 8°31 | 6°55 | 19°24 | 5°33 | 22° 8 | 22°41 | 16° 0 | 11°13 | 9°38 | 5°24 | 23° 3 | T 14 |
| W15 | 1 36 22 | 22°13'54 | 1♐17 | 21°11 | 9°40 | 7°38 | 19°28 | 5°37 | 22° 6 | 22°40 | 16° 0 | 11° 6 | 9°35 | 5°31 | 23° 0 | W15 |
| T 16 | 1 40 18 | 23°13'36 | 13°26 | 22°52 | 10°49 | 8°22 | 19°33 | 5°40 | 22° 4 | 22°39 | 16°R 0 | 10°59 | 9°32 | 5°38 | 22°57 | T 16 |
| F 17 | 1 44 15 | 24°13'21 | 25°24 | 24°33 | 11°58 | 9° 6 | 19°37 | 5°44 | 22° 1 | 22°39 | 16° 0 | 10°53 | 9°29 | 5°45 | 22°54 | F 17 |
| S 18 | 1 48 11 | 25°13'07 | 7♑17 | 26°13 | 13° 7 | 9°50 | 19°40 | 5°47 | 21°59 | 22°38 | 16° 0 | 10°49 | 9°26 | 5°51 | 22°51 | S 18 |
| S 19 | 1 52 8 | 26°12'54 | 19° 8 | 27°52 | 14°17 | 10°34 | 19°44 | 5°50 | 21°56 | 22°38 | 16° 0 | 10°47 | 9°23 | 5°58 | 22°48 | S 19 |
| M20 | 1 56 4 | 27°12'44 | 1♒ 2 | 29°31 | 15°26 | 11°18 | 19°47 | 5°53 | 21°54 | 22°37 | 16° 0 | 10°D47 | 9°19 | 6° 5 | 22°45 | M20 |
| T 21 | 2 0 1 | 28°12'35 | 13° 4 | 1♏ 9 | 16°36 | 12° 2 | 19°51 | 5°56 | 21°51 | 22°37 | 16° 0 | 10°48 | 9°16 | 6°11 | 22°42 | T 21 |
| W22 | 2 3 58 | 29°12'27 | 25°19 | 2°46 | 17°46 | 12°46 | 19°54 | 5°59 | 21°49 | 22°36 | 16° 0 | 10°49 | 9°13 | 6°18 | 22°39 | W22 |
| T 23 | 2 7 54 | 0♏12'22 | 7♓52 | 4°23 | 18°56 | 13°30 | 19°57 | 6° 2 | 21°46 | 22°36 | 16° 0 | 10°R50 | 9°10 | 6°25 | 22°37 | T 23 |
| F 24 | 2 11 51 | 1°12'18 | 20°48 | 6° 0 | 20° 6 | 14°15 | 19°59 | 6° 5 | 21°44 | 22°36 | 16° 0 | 10°50 | 9° 7 | 6°32 | 22°34 | F 24 |
| S 25 | 2 15 47 | 2°12'16 | 4♈ 7 | 7°36 | 21°17 | 14°59 | 20° 2 | 6° 7 | 21°42 | 22°35 | 16° 0 | 10°47 | 9° 4 | 6°38 | 22°31 | S 25 |
| S 26 | 2 19 44 | 3°12'15 | 17°52 | 9°11 | 22°27 | 15°43 | 20° 4 | 6°10 | 21°39 | 22°35 | 15°59 | 10°43 | 9° 0 | 6°45 | 22°28 | S 26 |
| M27 | 2 23 40 | 4°12'17 | 1♉59 | 10°46 | 23°38 | 16°28 | 20° 6 | 6°12 | 21°37 | 22°35 | 15°59 | 10°36 | 8°57 | 6°52 | 22°25 | M27 |
| T 28 | 2 27 37 | 5°12'20 | 16°25 | 12°21 | 24°49 | 17°12 | 20° 8 | 6°14 | 21°35 | 22°35 | 15°59 | 10°27 | 8°54 | 6°58 | 22°22 | T 28 |
| W29 | 2 31 33 | 6°12'25 | 1♊ 3 | 13°55 | 26° 0 | 17°57 | 20°10 | 6°16 | 21°32 | 22°34 | 15°58 | 10°18 | 8°51 | 7° 5 | 22°20 | W29 |
| T 30 | 2 35 30 | 7°12'33 | 15°46 | 15°29 | 27°11 | 18°42 | 20°12 | 6°19 | 21°30 | 22°34 | 15°58 | 10°10 | 8°48 | 7°12 | 22°17 | T 30 |
| F 31 | 2 39 27 | 8♏12'42 | 0♋25 | 17♏ 2 | 28♍22 | 19♐26 | 20♋13 | 6♌21 | 21♈27 | 22♒34 | 15♋58 | 10♍ 2 | 8♍44 | 7♑18 | 22♈14 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s19 | 13n24 | 4s54 | 3n 0 | 1n54 | 13n18 | 0s18 | 20s35 | 0s57 | 22n14 | 0n 0 | 19n28 | 0n20 | 8n15 | 0s38 | 14s24 | 0s30 | 22n 5 | 0s26 | 7n12 | 7n42 | 18s42 | 9n40 | 0n31 |
| T 2 | 3 43 | 16 10 | 5 11 | 2 17 | 1 53 | 13 0 | 0 13 | 20 45 | 0 58 | 22 14 | 0 0 | 19 27 | 0 20 | 8 14 | 0 38 | 14 24 | 0 30 | 22 5 | 0 26 | 7 14 | 7 44 | 18 42 | 9 39 | 0 31 |
| F 3 | 4 6 | 17 56 | 5 10 | 1 33 | 1 51 | 12 42 | 0 9 | 20 55 | 0 58 | 22 13 | 0 0 | 19 26 | 0 20 | 8 13 | 0 38 | 14 24 | 0 30 | 22 5 | 0 26 | 7 15 | 7 45 | 18 43 | 9 38 | 0 30 |
| S 4 | 4 29 | 18 36 | 4 49 | 0 49 | 1 48 | 12 24 | 0 4 | 21 4 | 0 58 | 22 12 | 0 0 | 19 25 | 0 21 | 8 12 | 0 38 | 14 25 | 0 30 | 22 5 | 0 26 | 7 15 | 7 46 | 18 43 | 9 37 | 0 30 |
| S 5 | 4 52 | 18 5 | 4 11 | 0 4 | 1 45 | 12 5 | 0n 1 | 21 14 | 0 59 | 22 11 | 0 1 | 19 24 | 0 21 | 8 12 | 0 38 | 14 25 | 0 30 | 22 5 | 0 26 | 7 15 | 7 47 | 18 43 | 9 36 | 0 30 |
| M 6 | 5 16 | 16 27 | 3 18 | 0s41 | 1 42 | 11 46 | 0 5 | 21 23 | 0 59 | 22 11 | 0 1 | 19 23 | 0 21 | 8 11 | 0 38 | 14 25 | 0 30 | 22 5 | 0 26 | 7 15 | 7 48 | 18 43 | 9 35 | 0 30 |
| T 7 | 5 39 | 13 51 | 2 14 | 1 27 | 1 38 | 11 26 | 0 10 | 21 33 | 1 0 | 22 10 | 0 1 | 19 22 | 0 21 | 8 10 | 0 38 | 14 26 | 0 30 | 22 5 | 0 26 | 7 14 | 7 50 | 18 43 | 9 34 | 0 30 |
| W 8 | 6 2 | 10 29 | 1 2 | 2 12 | 1 33 | 11 6 | 0 14 | 21 42 | 1 0 | 22 9 | 0 1 | 19 21 | 0 21 | 8 9 | 0 38 | 14 26 | 0 30 | 22 5 | 0 26 | 7 14 | 7 51 | 18 43 | 9 33 | 0 30 |
| T 9 | 6 25 | 6 34 | 0n12 | 2 58 | 1 28 | 10 46 | 0 18 | 21 50 | 1 1 | 22 9 | 0 1 | 19 20 | 0 21 | 8 8 | 0 37 | 14 26 | 0 30 | 22 5 | 0 26 | 7 14 | 7 52 | 18 43 | 9 32 | 0 30 |
| F 10 | 6 47 | 2 23 | 1 24 | 3 43 | 1 23 | 10 25 | 0 22 | 21 59 | 1 1 | 22 8 | 0 1 | 19 19 | 0 21 | 8 7 | 0 37 | 14 26 | 0 30 | 22 5 | 0 26 | 7 14 | 7 53 | 18 44 | 9 30 | 0 30 |
| S 11 | 7 10 | 1s51 | 2 31 | 4 28 | 1 18 | 10 4 | 0 26 | 22 8 | 1 1 | 22 8 | 0 1 | 19 18 | 0 21 | 8 6 | 0 37 | 14 27 | 0 30 | 22 5 | 0 26 | 7 15 | 7 54 | 18 44 | 9 29 | 0 30 |
| S 12 | 7 33 | 5 56 | 3 28 | 5 13 | 1 13 | 9 43 | 0 30 | 22 16 | 1 2 | 22 7 | 0 1 | 19 18 | 0 22 | 8 5 | 0 37 | 14 27 | 0 30 | 22 5 | 0 26 | 7 17 | 7 56 | 18 44 | 9 28 | 0 30 |
| M13 | 7 55 | 9 40 | 4 14 | 5 58 | 1 7 | 9 21 | 0 34 | 22 24 | 1 2 | 22 7 | 0 2 | 19 17 | 0 22 | 8 4 | 0 37 | 14 27 | 0 30 | 22 6 | 0 26 | 7 19 | 7 57 | 18 44 | 9 27 | 0 30 |
| T 14 | 8 18 | 12 54 | 4 46 | 6 42 | 1 1 | 8 59 | 0 38 | 22 32 | 1 3 | 22 6 | 0 2 | 19 16 | 0 22 | 8 3 | 0 37 | 14 27 | 0 30 | 22 6 | 0 26 | 7 22 | 7 58 | 18 44 | 9 26 | 0 30 |
| W15 | 8 40 | 15 29 | 5 5 | 7 26 | 0 55 | 8 36 | 0 42 | 22 39 | 1 3 | 22 6 | 0 2 | 19 15 | 0 22 | 8 2 | 0 37 | 14 28 | 0 30 | 22 6 | 0 26 | 7 25 | 7 59 | 18 44 | 9 25 | 0 29 |
| T 16 | 9 2 | 17 20 | 5 9 | 8 10 | 0 48 | 8 14 | 0 46 | 22 47 | 1 3 | 22 5 | 0 2 | 19 14 | 0 22 | 8 2 | 0 37 | 14 28 | 0 30 | 22 6 | 0 26 | 7 28 | 8 0 | 18 44 | 9 23 | 0 29 |
| F 17 | 9 24 | 18 25 | 4 59 | 8 53 | 0 42 | 7 51 | 0 49 | 22 54 | 1 4 | 22 5 | 0 2 | 19 14 | 0 22 | 8 1 | 0 37 | 14 28 | 0 30 | 22 6 | 0 25 | 7 30 | 8 2 | 18 44 | 9 22 | 0 29 |
| S 18 | 9 46 | 18 40 | 4 37 | 9 35 | 0 36 | 7 27 | 0 53 | 23 1 | 1 4 | 22 4 | 0 2 | 19 13 | 0 22 | 8 0 | 0 37 | 14 28 | 0 30 | 22 6 | 0 25 | 7 31 | 8 3 | 18 45 | 9 21 | 0 29 |
| S 19 | 10 8 | 18 6 | 4 3 | 10 17 | 0 29 | 7 4 | 0 56 | 23 8 | 1 4 | 22 4 | 0 2 | 19 12 | 0 22 | 7 59 | 0 37 | 14 28 | 0 30 | 22 6 | 0 25 | 7 32 | 8 4 | 18 45 | 9 20 | 0 29 |
| M20 | 10 30 | 16 44 | 3 18 | 10 58 | 0 22 | 6 40 | 0 59 | 23 14 | 1 5 | 22 3 | 0 2 | 19 12 | 0 23 | 7 58 | 0 37 | 14 28 | 0 30 | 22 6 | 0 25 | 7 32 | 8 5 | 18 45 | 9 19 | 0 29 |
| T 21 | 10 51 | 14 37 | 2 24 | 11 39 | 0 16 | 6 16 | 1 3 | 23 21 | 1 5 | 22 3 | 0 3 | 19 11 | 0 23 | 7 57 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 32 | 8 6 | 18 45 | 9 18 | 0 29 |
| W22 | 11 13 | 11 48 | 1 23 | 12 19 | 0 9 | 5 51 | 1 6 | 23 27 | 1 5 | 22 3 | 0 3 | 19 11 | 0 23 | 7 56 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 31 | 8 8 | 18 45 | 9 16 | 0 29 |
| T 23 | 11 34 | 8 23 | 0 16 | 12 58 | 0 2 | 5 26 | 1 9 | 23 33 | 1 6 | 22 2 | 0 3 | 19 10 | 0 23 | 7 55 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 31 | 8 9 | 18 45 | 9 15 | 0 29 |
| F 24 | 11 55 | 4 28 | 0s53 | 13 37 | 0s 5 | 5 2 | 1 12 | 23 38 | 1 6 | 22 2 | 0 3 | 19 9 | 0 23 | 7 54 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 31 | 8 10 | 18 45 | 9 14 | 0 29 |
| S 25 | 12 16 | 0 13 | 2 2 | 14 15 | 0 11 | 4 36 | 1 15 | 23 44 | 1 6 | 22 2 | 0 3 | 19 9 | 0 23 | 7 53 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 32 | 8 11 | 18 45 | 9 13 | 0 29 |
| S 26 | 12 36 | 4n10 | 3 5 | 14 52 | 0 18 | 4 11 | 1 17 | 23 49 | 1 7 | 22 2 | 0 3 | 19 8 | 0 23 | 7 53 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 34 | 8 12 | 18 45 | 9 12 | 0 28 |
| M27 | 12 57 | 8 27 | 3 59 | 15 28 | 0 25 | 3 46 | 1 20 | 23 54 | 1 7 | 22 2 | 0 3 | 19 8 | 0 24 | 7 52 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 36 | 8 14 | 18 45 | 9 11 | 0 28 |
| T 28 | 13 17 | 12 19 | 4 39 | 16 4 | 0 31 | 3 20 | 1 23 | 23 59 | 1 7 | 22 1 | 0 3 | 19 8 | 0 24 | 7 51 | 0 37 | 14 29 | 0 30 | 22 6 | 0 25 | 7 40 | 8 15 | 18 45 | 9 10 | 0 28 |
| W29 | 13 37 | 15 29 | 5 1 | 16 39 | 0 38 | 2 54 | 1 25 | 24 3 | 1 7 | 22 1 | 0 4 | 19 7 | 0 24 | 7 50 | 0 37 | 14 29 | 0 30 | 22 7 | 0 25 | 7 43 | 8 16 | 18 46 | 9 8 | 0 28 |
| T 30 | 13 56 | 17 41 | 5 3 | 17 13 | 0 44 | 2 28 | 1 28 | 24 7 | 1 8 | 22 1 | 0 4 | 19 7 | 0 24 | 7 49 | 0 37 | 14 29 | 0 30 | 22 7 | 0 25 | 7 46 | 8 17 | 18 46 | 9 7 | 0 28 |
| F 31 | 14s16 | 18n43 | 4s46 | 17s46 | 0s51 | 2n 2 | 1n30 | 24s11 | 1s 8 | 22n 1 | 0n 4 | 19n 6 | 0n24 | 7n48 | 0s37 | 14s29 | 0s30 | 22n 7 | 0s25 | 7n49 | 8n18 | 18s46 | 9n 6 | 0n28 |

Julian Day Number = 2335306.5, Delta T = 22.67 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'52, Lahiri = 19°24'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## NOVEMBER 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 43 23 | 9♏12'53 | 14♋55 | 18♏35 | 29♍33 | 20♐11 | 20♋14 | 6♌22 | 21°R25 | 22°R34 | 15°R57 | 9°R58 | 8♍41 | 7♑25 | 22°R11 | S 1 |
| S 2 | 2 47 20 | 10°13'07 | 29°11 | 20° 8 | 0♎44 | 20°56 | 20°15 | 6°24 | 21♈23 | 22♒34 | 15♋57 | 9♍55 | 8°38 | 7°32 | 22♈ 8 | S 2 |
| M 3 | 2 51 16 | 11°13'23 | 13♌13 | 21°40 | 1°56 | 21°41 | 20°16 | 6°26 | 21°21 | 22°D34 | 15°57 | 9°D55 | 8°35 | 7°39 | 22° 6 | M 3 |
| T 4 | 2 55 13 | 12°13'40 | 26°58 | 23°12 | 3° 8 | 22°26 | 20°16 | 6°27 | 21°18 | 22°34 | 15°56 | 9°55 | 8°32 | 7°45 | 22° 3 | T 4 |
| W 5 | 2 59 9 | 13°14'00 | 10♍29 | 24°43 | 4°19 | 23°11 | 20°17 | 6°29 | 21°16 | 22°34 | 15°56 | 9°R56 | 8°29 | 7°52 | 22° 0 | W 5 |
| T 6 | 3 3 6 | 14°14'21 | 23°46 | 26°14 | 5°31 | 23°56 | 20°R17 | 6°30 | 21°14 | 22°34 | 15°55 | 9°55 | 8°25 | 7°59 | 21°58 | T 6 |
| F 7 | 3 7 2 | 15°14'45 | 6♎51 | 27°45 | 6°43 | 24°42 | 20°17 | 6°31 | 21°12 | 22°34 | 15°55 | 9°52 | 8°22 | 8° 5 | 21°55 | F 7 |
| S 8 | 3 10 59 | 16°15'10 | 19°45 | 29°16 | 7°55 | 25°27 | 20°17 | 6°32 | 21°10 | 22°34 | 15°54 | 9°46 | 8°19 | 8°12 | 21°53 | S 8 |
| S 9 | 3 14 56 | 17°15'37 | 2♏28 | 0♐46 | 9° 7 | 26°12 | 20°16 | 6°33 | 21° 7 | 22°34 | 15°54 | 9°37 | 8°16 | 8°19 | 21°50 | S 9 |
| M10 | 3 18 52 | 18°16'06 | 15° 0 | 2°16 | 10°20 | 26°58 | 20°16 | 6°34 | 21° 5 | 22°35 | 15°53 | 9°25 | 8°13 | 8°26 | 21°47 | M10 |
| T 11 | 3 22 49 | 19°16'37 | 27°23 | 3°45 | 11°32 | 27°43 | 20°15 | 6°35 | 21° 3 | 22°35 | 15°52 | 9°12 | 8°10 | 8°32 | 21°45 | T 11 |
| W12 | 3 26 45 | 20°17'09 | 9♐35 | 5°14 | 12°44 | 28°29 | 20°14 | 6°36 | 21° 1 | 22°35 | 15°52 | 8°59 | 8° 6 | 8°39 | 21°42 | W12 |
| T 13 | 3 30 42 | 21°17'43 | 21°38 | 6°43 | 13°57 | 29°14 | 20°13 | 6°36 | 20°59 | 22°36 | 15°51 | 8°46 | 8° 3 | 8°46 | 21°40 | T 13 |
| F 14 | 3 34 38 | 22°18'18 | 3♑33 | 8°11 | 15°10 | 29°59 | 20°11 | 6°36 | 20°57 | 22°36 | 15°51 | 8°35 | 8° 0 | 8°52 | 21°38 | F 14 |
| S 15 | 3 38 35 | 23°18'54 | 15°24 | 9°39 | 16°22 | 0♑45 | 20°10 | 6°37 | 20°55 | 22°36 | 15°50 | 8°26 | 7°57 | 8°59 | 21°35 | S 15 |
| S 16 | 3 42 31 | 24°19'32 | 27°12 | 11° 6 | 17°35 | 1°31 | 20° 8 | 6°37 | 20°53 | 22°37 | 15°49 | 8°20 | 7°54 | 9° 6 | 21°33 | S 16 |
| M17 | 3 46 28 | 25°20'11 | 9♒ 3 | 12°32 | 18°48 | 2°17 | 20° 6 | 6°R37 | 20°51 | 22°37 | 15°48 | 8°17 | 7°50 | 9°12 | 21°31 | M17 |
| T 18 | 3 50 25 | 26°20'51 | 21° 2 | 13°58 | 20° 1 | 3° 3 | 20° 4 | 6°37 | 20°49 | 22°38 | 15°48 | 8°16 | 7°47 | 9°19 | 21°28 | T 18 |
| W19 | 3 54 21 | 27°21'32 | 3♓13 | 15°23 | 21°14 | 3°49 | 20° 1 | 6°37 | 20°48 | 22°38 | 15°47 | 8°16 | 7°44 | 9°26 | 21°26 | W19 |
| T 20 | 3 58 18 | 28°22'14 | 15°42 | 16°48 | 22°27 | 4°35 | 19°59 | 6°37 | 20°46 | 22°39 | 15°46 | 8°16 | 7°41 | 9°33 | 21°24 | T 20 |
| F 21 | 4 2 14 | 29°22'57 | 28°35 | 18°11 | 23°40 | 5°21 | 19°56 | 6°36 | 20°44 | 22°39 | 15°45 | 8°14 | 7°38 | 9°39 | 21°22 | F 21 |
| S 22 | 4 6 11 | 0♐23'42 | 11♈54 | 19°34 | 24°53 | 6° 7 | 19°53 | 6°36 | 20°42 | 22°40 | 15°44 | 8°11 | 7°35 | 9°46 | 21°20 | S 22 |
| S 23 | 4 10 7 | 1°24'27 | 25°43 | 20°55 | 26° 6 | 6°53 | 19°50 | 6°35 | 20°41 | 22°41 | 15°44 | 8° 4 | 7°31 | 9°53 | 21°18 | S 23 |
| M24 | 4 14 4 | 2°25'13 | 10♉ 1 | 22°14 | 27°20 | 7°39 | 19°46 | 6°34 | 20°39 | 22°41 | 15°43 | 7°55 | 7°28 | 9°59 | 21°16 | M24 |
| T 25 | 4 18 0 | 3°26'01 | 24°44 | 23°33 | 28°33 | 8°25 | 19°43 | 6°34 | 20°37 | 22°42 | 15°42 | 7°44 | 7°25 | 10° 6 | 21°14 | T 25 |
| W26 | 4 21 57 | 4°26'50 | 9♊43 | 24°49 | 29°46 | 9°11 | 19°39 | 6°33 | 20°36 | 22°43 | 15°41 | 7°32 | 7°22 | 10°13 | 21°12 | W26 |
| T 27 | 4 25 54 | 5°27'40 | 24°51 | 26° 3 | 1♏ 0 | 9°57 | 19°35 | 6°32 | 20°34 | 22°44 | 15°40 | 7°21 | 7°19 | 10°19 | 21°10 | T 27 |
| F 28 | 4 29 50 | 6°28'31 | 9♋56 | 27°15 | 2°14 | 10°44 | 19°31 | 6°30 | 20°33 | 22°44 | 15°39 | 7°11 | 7°15 | 10°26 | 21° 8 | F 28 |
| S 29 | 4 33 47 | 7°29'24 | 24°48 | 28°24 | 3°27 | 11°30 | 19°27 | 6°29 | 20°31 | 22°45 | 15°38 | 7° 4 | 7°12 | 10°33 | 21° 6 | S 29 |
| S 30 | 4 37 43 | 8♐30'18 | 9♌22 | 29♐30 | 4♏41 | 12♑16 | 19♋22 | 6♌28 | 20♈30 | 22♒46 | 15♋37 | 7♍ 0 | 7♍ 9 | 10♑40 | 21♈ 4 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s35 | 18n30 | 4s10 | 18s18 | 0s57 | 1n35 | 1n32 | 24s15 | 1s 8 | 22n 1 | 0n 4 | 19n 6 | 0n24 | 7n47 | 0s37 | 14s29 | 0s30 | 22n 7 | 0s25 | 7n51 | 8n20 | 18s46 | 9n 5 | 0n28 |
| S 2 | 14 54 | 17 6 | 3 20 | 18 49 | 1 3 | 1 9 | 1 34 | 24 18 | 1 8 | 22 1 | 0 4 | 19 6 | 0 24 | 7 47 | 0 37 | 14 29 | 0 30 | 22 7 | 0 25 | 7 52 | 8 21 | 18 46 | 9 4 | 0 28 |
| M 3 | 15 13 | 14 41 | 2 18 | 19 20 | 1 10 | 0 42 | 1 36 | 24 22 | 1 9 | 22 1 | 0 4 | 19 6 | 0 25 | 7 46 | 0 37 | 14 29 | 0 30 | 22 7 | 0 25 | 7 52 | 8 22 | 18 46 | 9 3 | 0 28 |
| T 4 | 15 32 | 11 28 | 1 9 | 19 49 | 1 16 | 0 15 | 1 38 | 24 25 | 1 9 | 22 1 | 0 4 | 19 5 | 0 25 | 7 45 | 0 37 | 14 29 | 0 30 | 22 7 | 0 25 | 7 52 | 8 23 | 18 46 | 9 2 | 0 28 |
| W 5 | 15 50 | 7 42 | 0n 3 | 20 18 | 1 21 | 0s12 | 1 40 | 24 27 | 1 9 | 22 1 | 0 5 | 19 5 | 0 25 | 7 44 | 0 37 | 14 29 | 0 30 | 22 7 | 0 24 | 7 52 | 8 24 | 18 46 | 9 1 | 0 28 |
| T 6 | 16 8 | 3 36 | 1 13 | 20 45 | 1 27 | 0 39 | 1 42 | 24 30 | 1 9 | 22 1 | 0 5 | 19 5 | 0 25 | 7 43 | 0 37 | 14 29 | 0 30 | 22 7 | 0 24 | 7 52 | 8 25 | 18 46 | 9 0 | 0 27 |
| F 7 | 16 26 | 0s37 | 2 18 | 21 12 | 1 33 | 1 6 | 1 43 | 24 32 | 1 10 | 22 1 | 0 5 | 19 5 | 0 25 | 7 42 | 0 37 | 14 29 | 0 30 | 22 7 | 0 24 | 7 53 | 8 27 | 18 46 | 8 59 | 0 27 |
| S 8 | 16 44 | 4 44 | 3 15 | 21 37 | 1 38 | 1 33 | 1 45 | 24 34 | 1 10 | 22 2 | 0 5 | 19 5 | 0 25 | 7 42 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 7 55 | 8 28 | 18 46 | 8 57 | 0 27 |
| S 9 | 17 1 | 8 34 | 4 1 | 22 2 | 1 43 | 2 0 | 1 46 | 24 35 | 1 10 | 22 2 | 0 5 | 19 5 | 0 25 | 7 41 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 7 59 | 8 29 | 18 46 | 8 56 | 0 27 |
| M10 | 17 18 | 11 59 | 4 35 | 22 25 | 1 48 | 2 27 | 1 47 | 24 37 | 1 10 | 22 2 | 0 5 | 19 4 | 0 26 | 7 40 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 8 3 | 8 30 | 18 46 | 8 55 | 0 27 |
| T 11 | 17 34 | 14 49 | 4 55 | 22 47 | 1 53 | 2 54 | 1 49 | 24 38 | 1 10 | 22 2 | 0 5 | 19 4 | 0 26 | 7 39 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 8 8 | 8 31 | 18 46 | 8 54 | 0 27 |
| W12 | 17 51 | 16 58 | 5 1 | 23 8 | 1 58 | 3 21 | 1 50 | 24 39 | 1 10 | 22 3 | 0 6 | 19 4 | 0 26 | 7 39 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 8 13 | 8 33 | 18 46 | 8 53 | 0 27 |
| T 13 | 18 7 | 18 20 | 4 54 | 23 28 | 2 2 | 3 49 | 1 51 | 24 39 | 1 11 | 22 3 | 0 6 | 19 4 | 0 26 | 7 38 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 8 18 | 8 34 | 18 46 | 8 52 | 0 27 |
| F 14 | 18 23 | 18 52 | 4 33 | 23 47 | 2 6 | 4 16 | 1 52 | 24 39 | 1 11 | 22 3 | 0 6 | 19 4 | 0 26 | 7 37 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 8 22 | 8 35 | 18 46 | 8 51 | 0 27 |
| S 15 | 18 38 | 18 35 | 4 2 | 24 4 | 2 10 | 4 43 | 1 53 | 24 39 | 1 11 | 22 4 | 0 6 | 19 4 | 0 26 | 7 36 | 0 37 | 14 29 | 0 30 | 22 8 | 0 24 | 8 25 | 8 36 | 18 46 | 8 50 | 0 27 |
| S 16 | 18 53 | 17 30 | 3 19 | 24 20 | 2 13 | 5 10 | 1 53 | 24 39 | 1 11 | 22 4 | 0 6 | 19 5 | 0 26 | 7 36 | 0 37 | 14 28 | 0 30 | 22 9 | 0 24 | 8 27 | 8 37 | 18 46 | 8 49 | 0 26 |
| M17 | 19 8 | 15 38 | 2 28 | 24 35 | 2 16 | 5 37 | 1 54 | 24 39 | 1 11 | 22 5 | 0 6 | 19 5 | 0 27 | 7 35 | 0 37 | 14 28 | 0 30 | 22 9 | 0 24 | 8 29 | 8 39 | 18 46 | 8 48 | 0 26 |
| T 18 | 19 22 | 13 5 | 1 30 | 24 49 | 2 19 | 6 4 | 1 54 | 24 38 | 1 11 | 22 5 | 0 6 | 19 5 | 0 27 | 7 34 | 0 37 | 14 28 | 0 30 | 22 9 | 0 24 | 8 29 | 8 40 | 18 46 | 8 47 | 0 26 |
| W19 | 19 36 | 9 56 | 0 27 | 25 1 | 2 22 | 6 31 | 1 55 | 24 37 | 1 11 | 22 5 | 0 7 | 19 5 | 0 27 | 7 34 | 0 37 | 14 28 | 0 30 | 22 9 | 0 24 | 8 29 | 8 41 | 18 46 | 8 47 | 0 26 |
| T 20 | 19 50 | 6 15 | 0s39 | 25 12 | 2 24 | 6 58 | 1 55 | 24 35 | 1 12 | 22 6 | 0 7 | 19 5 | 0 27 | 7 33 | 0 37 | 14 28 | 0 30 | 22 9 | 0 24 | 8 29 | 8 42 | 18 46 | 8 46 | 0 26 |
| F 21 | 20 3 | 2 11 | 1 45 | 25 22 | 2 25 | 7 25 | 1 56 | 24 34 | 1 12 | 22 7 | 0 7 | 19 5 | 0 27 | 7 32 | 0 37 | 14 28 | 0 30 | 22 9 | 0 24 | 8 30 | 8 43 | 18 46 | 8 45 | 0 26 |
| S 22 | 20 16 | 2n 8 | 2 48 | 25 30 | 2 26 | 7 51 | 1 56 | 24 32 | 1 12 | 22 7 | 0 7 | 19 6 | 0 27 | 7 32 | 0 37 | 14 27 | 0 30 | 22 10 | 0 24 | 8 31 | 8 44 | 18 46 | 8 44 | 0 26 |
| S 23 | 20 29 | 6 30 | 3 43 | 25 36 | 2 27 | 8 18 | 1 56 | 24 30 | 1 12 | 22 8 | 0 7 | 19 6 | 0 27 | 7 31 | 0 37 | 14 27 | 0 30 | 22 10 | 0 23 | 8 33 | 8 46 | 18 46 | 8 43 | 0 26 |
| M24 | 20 41 | 10 38 | 4 26 | 25 42 | 2 27 | 8 44 | 1 56 | 24 27 | 1 12 | 22 8 | 0 7 | 19 6 | 0 28 | 7 31 | 0 37 | 14 27 | 0 30 | 22 10 | 0 23 | 8 37 | 8 47 | 18 46 | 8 42 | 0 26 |
| T 25 | 20 53 | 14 15 | 4 53 | 25 45 | 2 26 | 9 10 | 1 56 | 24 24 | 1 12 | 22 9 | 0 7 | 19 7 | 0 28 | 7 30 | 0 37 | 14 27 | 0 30 | 22 10 | 0 23 | 8 41 | 8 48 | 18 46 | 8 41 | 0 26 |
| W26 | 21 4 | 17 0 | 5 0 | 25 48 | 2 25 | 9 36 | 1 56 | 24 21 | 1 12 | 22 10 | 0 8 | 19 7 | 0 28 | 7 29 | 0 37 | 14 26 | 0 30 | 22 10 | 0 23 | 8 45 | 8 49 | 18 46 | 8 40 | 0 25 |
| T 27 | 21 15 | 18 36 | 4 46 | 25 49 | 2 23 | 10 2 | 1 55 | 24 18 | 1 12 | 22 10 | 0 8 | 19 8 | 0 28 | 7 29 | 0 37 | 14 26 | 0 30 | 22 10 | 0 23 | 8 50 | 8 50 | 18 46 | 8 40 | 0 25 |
| F 28 | 21 26 | 18 54 | 4 13 | 25 48 | 2 21 | 10 28 | 1 55 | 24 15 | 1 12 | 22 11 | 0 8 | 19 8 | 0 28 | 7 28 | 0 37 | 14 26 | 0 30 | 22 10 | 0 23 | 8 53 | 8 52 | 18 46 | 8 39 | 0 25 |
| S 29 | 21 36 | 17 52 | 3 23 | 25 46 | 2 18 | 10 53 | 1 55 | 24 11 | 1 12 | 22 12 | 0 8 | 19 8 | 0 28 | 7 28 | 0 37 | 14 26 | 0 30 | 22 11 | 0 23 | 8 56 | 8 53 | 18 46 | 8 38 | 0 25 |
| S 30 | 21s46 | 15n41 | 2s20 | 25s42 | 2s14 | 11s19 | 1n54 | 24s 7 | 1s12 | 22n13 | 0n 8 | 19n 9 | 0n29 | 7n27 | 0s37 | 14s25 | 0s30 | 22n11 | 0s23 | 8n57 | 8n54 | 18s46 | 8n37 | 0n25 |

Julian Day Number = 2335337.5, Delta T = 22.63 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°17'57, Lahiri = 19°24'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1681
# geocentric

## DECEMBER 1681 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 41 40 | 9♐31'13 | 23♌33 | 0♑32 | 5♏55 | 13♑ 3 | 19°R17 | 6°R26 | 20°R29 | 22♒47 | 15°R36 | 6°R58 | 7♍ 6 | 10♑46 | 21°R 3 | M 1 |
| T 2 | 4 45 36 | 10°32'10 | 7♍21 | 1°30 | 7° 8 | 13°49 | 19♋13 | 6♌25 | 20♈27 | 22°48 | 15♋35 | 6♍58 | 7° 3 | 10°53 | 21♈ 1 | T 2 |
| W 3 | 4 49 33 | 11°33'07 | 20°47 | 2°23 | 8°22 | 14°36 | 19° 8 | 6°23 | 20°26 | 22°49 | 15°34 | 6°58 | 7° 0 | 11° 0 | 20°59 | W 3 |
| T 4 | 4 53 29 | 12°34'06 | 3♎54 | 3°10 | 9°36 | 15°22 | 19° 3 | 6°21 | 20°25 | 22°50 | 15°33 | 6°56 | 6°56 | 11° 6 | 20°58 | T 4 |
| F 5 | 4 57 26 | 13°35'06 | 16°45 | 3°51 | 10°50 | 16° 9 | 18°57 | 6°19 | 20°23 | 22°51 | 15°32 | 6°53 | 6°53 | 11°13 | 20°56 | F 5 |
| S 6 | 5 1 23 | 14°36'08 | 29°22 | 4°25 | 12° 4 | 16°56 | 18°52 | 6°17 | 20°22 | 22°52 | 15°31 | 6°46 | 6°50 | 11°20 | 20°55 | S 6 |
| S 7 | 5 5 19 | 15°37'10 | 11♏48 | 4°51 | 13°18 | 17°42 | 18°46 | 6°15 | 20°21 | 22°53 | 15°30 | 6°37 | 6°47 | 11°26 | 20°53 | S 7 |
| M 8 | 5 9 16 | 16°38'13 | 24° 5 | 5° 8 | 14°32 | 18°29 | 18°40 | 6°13 | 20°20 | 22°54 | 15°29 | 6°24 | 6°44 | 11°33 | 20°52 | M 8 |
| T 9 | 5 13 12 | 17°39'18 | 6♐14 | 5°R16 | 15°46 | 19°16 | 18°34 | 6°11 | 20°19 | 22°56 | 15°28 | 6°10 | 6°41 | 11°40 | 20°51 | T 9 |
| W10 | 5 17 9 | 18°40'23 | 18°17 | 5°13 | 17° 0 | 20° 2 | 18°28 | 6° 8 | 20°18 | 22°57 | 15°27 | 5°55 | 6°37 | 11°47 | 20°50 | W10 |
| T 11 | 5 21 5 | 19°41'28 | 0♑14 | 4°58 | 18°15 | 20°49 | 18°22 | 6° 6 | 20°17 | 22°58 | 15°26 | 5°41 | 6°34 | 11°53 | 20°48 | T 11 |
| F 12 | 5 25 2 | 20°42'35 | 12° 6 | 4°33 | 19°29 | 21°36 | 18°16 | 6° 3 | 20°16 | 22°59 | 15°25 | 5°29 | 6°31 | 12° 0 | 20°47 | F 12 |
| S 13 | 5 28 58 | 21°43'42 | 23°55 | 3°55 | 20°43 | 22°23 | 18° 9 | 6° 0 | 20°16 | 23° 1 | 15°23 | 5°19 | 6°28 | 12° 7 | 20°46 | S 13 |
| S 14 | 5 32 55 | 22°44'49 | 5♒43 | 3° 6 | 21°57 | 23°10 | 18° 3 | 5°57 | 20°15 | 23° 2 | 15°22 | 5°12 | 6°25 | 12°13 | 20°45 | S 14 |
| M15 | 5 36 52 | 23°45'57 | 17°34 | 2° 7 | 23°12 | 23°57 | 17°56 | 5°54 | 20°14 | 23° 3 | 15°21 | 5° 8 | 6°21 | 12°20 | 20°44 | M15 |
| T 16 | 5 40 48 | 24°47'04 | 29°31 | 0°59 | 24°26 | 24°44 | 17°49 | 5°51 | 20°13 | 23° 5 | 15°20 | 5° 7 | 6°18 | 12°27 | 20°43 | T 16 |
| W17 | 5 44 45 | 25°48'13 | 11♓40 | 29♐43 | 25°40 | 25°31 | 17°42 | 5°48 | 20°13 | 23° 6 | 15°19 | 5°D 7 | 6°15 | 12°33 | 20°42 | W17 |
| T 18 | 5 48 41 | 26°49'21 | 24° 5 | 28°23 | 26°55 | 26°18 | 17°35 | 5°45 | 20°12 | 23° 7 | 15°17 | 5°R 7 | 6°12 | 12°40 | 20°42 | T 18 |
| F 19 | 5 52 38 | 27°50'29 | 6♈51 | 27° 1 | 28° 9 | 27° 5 | 17°28 | 5°42 | 20°12 | 23° 9 | 15°16 | 5° 7 | 6° 9 | 12°47 | 20°41 | F 19 |
| S 20 | 5 56 34 | 28°51'38 | 20° 3 | 25°39 | 29°24 | 27°52 | 17°20 | 5°39 | 20°11 | 23°10 | 15°15 | 5° 5 | 6° 6 | 12°54 | 20°40 | S 20 |
| S 21 | 6 0 31 | 29°52'46 | 3♉45 | 24°20 | 0♐38 | 28°39 | 17°13 | 5°35 | 20°11 | 23°12 | 15°14 | 5° 0 | 6° 2 | 13° 0 | 20°40 | S 21 |
| M22 | 6 4 27 | 0♑53'55 | 17°57 | 23° 8 | 1°53 | 29°26 | 17° 6 | 5°32 | 20°10 | 23°13 | 15°13 | 4°53 | 5°59 | 13° 7 | 20°39 | M22 |
| T 23 | 6 8 24 | 1°55'03 | 2♊38 | 22° 2 | 3° 7 | 0♒13 | 16°58 | 5°28 | 20°10 | 23°15 | 15°11 | 4°44 | 5°56 | 13°14 | 20°39 | T 23 |
| W24 | 6 12 21 | 2°56'12 | 17°41 | 21° 6 | 4°22 | 1° 0 | 16°50 | 5°24 | 20°10 | 23°17 | 15°10 | 4°35 | 5°53 | 13°20 | 20°38 | W24 |
| T 25 | 6 16 17 | 3°57'21 | 2♋59 | 20°20 | 5°36 | 1°48 | 16°43 | 5°21 | 20°10 | 23°18 | 15° 9 | 4°25 | 5°50 | 13°27 | 20°38 | T 25 |
| F 26 | 6 20 14 | 4°58'30 | 18°18 | 19°44 | 6°51 | 2°35 | 16°35 | 5°17 | 20° 9 | 23°20 | 15° 8 | 4°17 | 5°47 | 13°34 | 20°37 | F 26 |
| S 27 | 6 24 10 | 5°59'39 | 3♌29 | 19°19 | 8° 5 | 3°22 | 16°27 | 5°13 | 20° 9 | 23°22 | 15° 6 | 4°11 | 5°43 | 13°40 | 20°37 | S 27 |
| S 28 | 6 28 7 | 7° 0'48 | 18°22 | 19° 3 | 9°20 | 4° 9 | 16°19 | 5° 9 | 20° 9 | 23°23 | 15° 5 | 4° 7 | 5°40 | 13°47 | 20°37 | S 28 |
| M29 | 6 32 3 | 8° 1'58 | 2♍50 | 18°D58 | 10°35 | 4°56 | 16°11 | 5° 5 | 20°D 9 | 23°25 | 15° 4 | 4°D 6 | 5°37 | 13°54 | 20°37 | M29 |
| T 30 | 6 36 0 | 9° 3'07 | 16°51 | 19° 2 | 11°49 | 5°44 | 16° 3 | 5° 1 | 20° 9 | 23°27 | 15° 3 | 4° 7 | 5°34 | 14° 1 | 20°37 | T 30 |
| W31 | 6 39 57 | 10♑ 4'17 | 0♎25 | 19♐14 | 13♐ 4 | 6♒31 | 15♋55 | 4♌56 | 20♈ 9 | 23♒28 | 15♋ 1 | 4♍ 8 | 5♍31 | 14♑ 7 | 20°D37 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s55 | 12n35 | 1s10 | 25s37 | 2s 8 | 11s44 | 1n53 | 24s 2 | 1s12 | 22n14 | 0n 8 | 19n 9 | 0n29 | 7n27 | 0s37 | 14s25 | 0s30 | 22n11 | 0s23 | 8n58 | 8n55 | 18s46 | 8n37 | 0n25 |
| T 2 | 22 4 | 8 51 | 0n 2 | 25 31 | 2 2 | 12 8 | 1 53 | 23 57 | 1 12 | 22 14 | 0 9 | 19 10 | 0 29 | 7 26 | 0 37 | 14 25 | 0 30 | 22 11 | 0 23 | 8 58 | 8 56 | 18 46 | 8 36 | 0 25 |
| W 3 | 22 12 | 4 46 | 1 12 | 25 23 | 1 55 | 12 33 | 1 52 | 23 52 | 1 12 | 22 15 | 0 9 | 19 11 | 0 29 | 7 26 | 0 36 | 14 24 | 0 30 | 22 11 | 0 23 | 8 58 | 8 57 | 18 46 | 8 35 | 0 25 |
| T 4 | 22 20 | 0 33 | 2 17 | 25 14 | 1 47 | 12 57 | 1 51 | 23 47 | 1 12 | 22 16 | 0 9 | 19 11 | 0 29 | 7 25 | 0 36 | 14 24 | 0 30 | 22 11 | 0 23 | 8 59 | 8 59 | 18 46 | 8 35 | 0 25 |
| F 5 | 22 28 | 3s37 | 3 14 | 25 3 | 1 38 | 13 21 | 1 50 | 23 42 | 1 12 | 22 17 | 0 9 | 19 12 | 0 29 | 7 25 | 0 36 | 14 24 | 0 30 | 22 12 | 0 23 | 9 0 | 9 0 | 18 46 | 8 34 | 0 25 |
| S 6 | 22 35 | 7 32 | 3 59 | 24 51 | 1 27 | 13 45 | 1 49 | 23 36 | 1 12 | 22 18 | 0 9 | 19 12 | 0 29 | 7 25 | 0 36 | 14 23 | 0 30 | 22 12 | 0 23 | 9 2 | 9 1 | 18 46 | 8 33 | 0 24 |
| S 7 | 22 42 | 11 4 | 4 33 | 24 39 | 1 15 | 14 8 | 1 48 | 23 30 | 1 12 | 22 19 | 0 9 | 19 13 | 0 30 | 7 24 | 0 36 | 14 23 | 0 30 | 22 12 | 0 23 | 9 6 | 9 2 | 18 46 | 8 33 | 0 24 |
| M 8 | 22 48 | 14 5 | 4 53 | 24 25 | 1 2 | 14 31 | 1 47 | 23 24 | 1 12 | 22 20 | 0 10 | 19 14 | 0 30 | 7 24 | 0 36 | 14 23 | 0 30 | 22 12 | 0 23 | 9 11 | 9 3 | 18 46 | 8 32 | 0 24 |
| T 9 | 22 54 | 16 27 | 5 0 | 24 10 | 0 47 | 14 54 | 1 46 | 23 17 | 1 12 | 22 21 | 0 10 | 19 14 | 0 30 | 7 23 | 0 36 | 14 22 | 0 30 | 22 12 | 0 23 | 9 16 | 9 5 | 18 46 | 8 31 | 0 24 |
| W10 | 23 0 | 18 6 | 4 53 | 23 54 | 0 31 | 15 16 | 1 45 | 23 10 | 1 12 | 22 22 | 0 10 | 19 15 | 0 30 | 7 23 | 0 36 | 14 22 | 0 30 | 22 13 | 0 22 | 9 21 | 9 6 | 18 46 | 8 31 | 0 24 |
| T 11 | 23 5 | 18 55 | 4 33 | 23 37 | 0 14 | 15 38 | 1 43 | 23 3 | 1 12 | 22 23 | 0 10 | 19 16 | 0 30 | 7 23 | 0 36 | 14 21 | 0 30 | 22 13 | 0 22 | 9 26 | 9 7 | 18 46 | 8 30 | 0 24 |
| F 12 | 23 9 | 18 55 | 4 2 | 23 20 | 0n 4 | 16 0 | 1 42 | 22 56 | 1 12 | 22 24 | 0 10 | 19 17 | 0 30 | 7 23 | 0 36 | 14 21 | 0 30 | 22 13 | 0 22 | 9 31 | 9 8 | 18 45 | 8 30 | 0 24 |
| S 13 | 23 13 | 18 4 | 3 20 | 23 2 | 0 23 | 16 21 | 1 40 | 22 48 | 1 12 | 22 25 | 0 10 | 19 18 | 0 30 | 7 22 | 0 36 | 14 20 | 0 30 | 22 13 | 0 22 | 9 35 | 9 9 | 18 45 | 8 29 | 0 24 |
| S 14 | 23 17 | 16 28 | 2 29 | 22 43 | 0 43 | 16 42 | 1 39 | 22 40 | 1 12 | 22 26 | 0 10 | 19 18 | 0 31 | 7 22 | 0 36 | 14 20 | 0 30 | 22 13 | 0 22 | 9 37 | 9 10 | 18 45 | 8 29 | 0 24 |
| M15 | 23 20 | 14 8 | 1 32 | 22 25 | 1 3 | 17 2 | 1 37 | 22 32 | 1 12 | 22 27 | 0 11 | 19 19 | 0 31 | 7 22 | 0 36 | 14 20 | 0 30 | 22 14 | 0 22 | 9 39 | 9 12 | 18 45 | 8 28 | 0 24 |
| T 16 | 23 23 | 11 12 | 0 30 | 22 6 | 1 23 | 17 22 | 1 35 | 22 23 | 1 12 | 22 28 | 0 11 | 19 20 | 0 31 | 7 22 | 0 36 | 14 19 | 0 30 | 22 14 | 0 22 | 9 39 | 9 13 | 18 45 | 8 28 | 0 23 |
| W17 | 23 25 | 7 44 | 0s35 | 21 47 | 1 42 | 17 42 | 1 34 | 22 15 | 1 12 | 22 29 | 0 11 | 19 21 | 0 31 | 7 21 | 0 36 | 14 19 | 0 30 | 22 14 | 0 22 | 9 39 | 9 14 | 18 45 | 8 28 | 0 23 |
| T 18 | 23 26 | 3 52 | 1 39 | 21 28 | 2 0 | 18 1 | 1 32 | 22 6 | 1 11 | 22 30 | 0 11 | 19 22 | 0 31 | 7 21 | 0 36 | 14 18 | 0 30 | 22 14 | 0 22 | 9 39 | 9 15 | 18 45 | 8 27 | 0 23 |
| F 19 | 23 28 | 0n16 | 2 41 | 21 10 | 2 17 | 18 19 | 1 30 | 21 57 | 1 11 | 22 31 | 0 11 | 19 23 | 0 31 | 7 21 | 0 36 | 14 18 | 0 30 | 22 14 | 0 22 | 9 39 | 9 16 | 18 45 | 8 27 | 0 23 |
| S 20 | 23 28 | 4 31 | 3 35 | 20 53 | 2 31 | 18 37 | 1 28 | 21 47 | 1 11 | 22 32 | 0 11 | 19 24 | 0 31 | 7 21 | 0 36 | 14 17 | 0 30 | 22 15 | 0 22 | 9 40 | 9 17 | 18 45 | 8 26 | 0 23 |
| S 21 | 23 29 | 8 42 | 4 20 | 20 38 | 2 43 | 18 55 | 1 26 | 21 37 | 1 11 | 22 33 | 0 11 | 19 25 | 0 32 | 7 21 | 0 36 | 14 17 | 0 30 | 22 15 | 0 22 | 9 42 | 9 19 | 18 45 | 8 26 | 0 23 |
| M22 | 23 29 | 12 33 | 4 51 | 20 25 | 2 53 | 19 12 | 1 24 | 21 28 | 1 11 | 22 35 | 0 12 | 19 26 | 0 32 | 7 21 | 0 36 | 14 16 | 0 30 | 22 15 | 0 22 | 9 44 | 9 20 | 18 45 | 8 26 | 0 23 |
| T 23 | 23 28 | 15 45 | 5 4 | 20 14 | 3 1 | 19 28 | 1 22 | 21 17 | 1 11 | 22 36 | 0 12 | 19 27 | 0 32 | 7 21 | 0 36 | 14 16 | 0 30 | 22 15 | 0 22 | 9 47 | 9 21 | 18 44 | 8 25 | 0 23 |
| W24 | 23 27 | 18 0 | 4 56 | 20 6 | 3 6 | 19 44 | 1 20 | 21 7 | 1 11 | 22 37 | 0 12 | 19 28 | 0 32 | 7 20 | 0 36 | 14 15 | 0 30 | 22 15 | 0 22 | 9 51 | 9 22 | 18 44 | 8 25 | 0 23 |
| T 25 | 23 25 | 18 59 | 4 27 | 20 0 | 3 8 | 20 0 | 1 18 | 20 56 | 1 11 | 22 38 | 0 12 | 19 29 | 0 32 | 7 20 | 0 36 | 14 15 | 0 30 | 22 16 | 0 22 | 9 54 | 9 23 | 18 44 | 8 25 | 0 22 |
| F 26 | 23 23 | 18 36 | 3 39 | 19 57 | 3 9 | 20 15 | 1 16 | 20 45 | 1 10 | 22 39 | 0 12 | 19 30 | 0 32 | 7 20 | 0 36 | 14 14 | 0 30 | 22 16 | 0 22 | 9 57 | 9 24 | 18 44 | 8 25 | 0 22 |
| S 27 | 23 21 | 16 52 | 2 36 | 19 56 | 3 8 | 20 29 | 1 13 | 20 34 | 1 10 | 22 40 | 0 12 | 19 31 | 0 32 | 7 20 | 0 36 | 14 14 | 0 30 | 22 16 | 0 21 | 10 0 | 9 26 | 18 44 | 8 25 | 0 22 |
| S 28 | 23 18 | 14 2 | 1 23 | 19 57 | 3 5 | 20 43 | 1 11 | 20 23 | 1 10 | 22 41 | 0 13 | 19 32 | 0 33 | 7 20 | 0 36 | 14 13 | 0 30 | 22 16 | 0 21 | 10 1 | 9 27 | 18 44 | 8 24 | 0 22 |
| M29 | 23 14 | 10 22 | 0 7 | 20 1 | 3 1 | 20 56 | 1 9 | 20 11 | 1 10 | 22 42 | 0 13 | 19 33 | 0 33 | 7 20 | 0 36 | 14 12 | 0 30 | 22 16 | 0 21 | 10 1 | 9 28 | 18 44 | 8 24 | 0 22 |
| T 30 | 23 10 | 6 15 | 1n 8 | 20 7 | 2 55 | 21 9 | 1 6 | 20 0 | 1 10 | 22 43 | 0 13 | 19 35 | 0 33 | 7 20 | 0 36 | 14 12 | 0 30 | 22 17 | 0 21 | 10 1 | 9 29 | 18 44 | 8 24 | 0 22 |
| W31 | 23s 6 | 1n55 | 2n16 | 20s14 | 2n49 | 21s21 | 1n 4 | 19s48 | 1s 9 | 22n44 | 0n13 | 19n36 | 0n33 | 7n21 | 0s36 | 14s11 | 0s30 | 22n17 | 0s21 | 10n 1 | 9n30 | 18s44 | 8n24 | 0n22 |

Julian Day Number = 2335367.5, Delta T = 22.58 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'01, Lahiri = 19°25'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## JANUARY 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 43 53 | 11♉ 5'27 | 13♎35 | 19♐34 | 14♐19 | 7♒18 | 15°R47 | 4°R52 | 20♈ 9 | 23♒30 | 15°R 0 | 4°R 8 | 5♍27 | 14♉14 | 20♈37 | T 1 |
| F 2 | 6 47 50 | 12° 6'37 | 26°23 | 20° 1 | 15°33 | 8° 5 | 15♋39 | 4♌48 | 20°10 | 23°32 | 14♋59 | 4♍ 7 | 5°24 | 14°21 | 20°37 | F 2 |
| S 3 | 6 51 46 | 13° 7'48 | 8♏53 | 20°34 | 16°48 | 8°53 | 15°31 | 4°44 | 20°10 | 23°34 | 14°57 | 4° 4 | 5°21 | 14°27 | 20°37 | S 3 |
| S 4 | 6 55 43 | 14° 8'58 | 21°11 | 21°13 | 18° 3 | 9°40 | 15°23 | 4°39 | 20°10 | 23°36 | 14°56 | 3°58 | 5°18 | 14°34 | 20°37 | S 4 |
| M 5 | 6 59 39 | 15°10'08 | 3♐18 | 21°58 | 19°18 | 10°27 | 15°15 | 4°35 | 20°11 | 23°38 | 14°55 | 3°50 | 5°15 | 14°41 | 20°38 | M 5 |
| T 6 | 7 3 36 | 16°11'19 | 15°17 | 22°46 | 20°33 | 11°15 | 15° 7 | 4°30 | 20°11 | 23°39 | 14°54 | 3°41 | 5°12 | 14°47 | 20°38 | T 6 |
| W 7 | 7 7 32 | 17°12'29 | 27°12 | 23°39 | 21°47 | 12° 2 | 14°59 | 4°26 | 20°11 | 23°41 | 14°52 | 3°31 | 5° 8 | 14°54 | 20°38 | W 7 |
| T 8 | 7 11 29 | 18°13'39 | 9♑ 3 | 24°36 | 23° 2 | 12°50 | 14°51 | 4°21 | 20°12 | 23°43 | 14°51 | 3°22 | 5° 5 | 15° 1 | 20°39 | T 8 |
| F 9 | 7 15 26 | 19°14'48 | 20°53 | 25°36 | 24°17 | 13°37 | 14°43 | 4°16 | 20°13 | 23°45 | 14°50 | 3°14 | 5° 2 | 15° 7 | 20°39 | F 9 |
| S 10 | 7 19 22 | 20°15'57 | 2♒43 | 26°38 | 25°32 | 14°24 | 14°35 | 4°12 | 20°13 | 23°47 | 14°49 | 3° 8 | 4°59 | 15°14 | 20°40 | S 10 |
| S 11 | 7 23 19 | 21°17'06 | 14°35 | 27°44 | 26°47 | 15°12 | 14°27 | 4° 7 | 20°14 | 23°49 | 14°47 | 3° 3 | 4°56 | 15°21 | 20°40 | S 11 |
| M12 | 7 27 15 | 22°18'13 | 26°32 | 28°52 | 28° 1 | 15°59 | 14°19 | 4° 2 | 20°15 | 23°51 | 14°46 | 3° 2 | 4°53 | 15°28 | 20°41 | M12 |
| T 13 | 7 31 12 | 23°19'20 | 8♓34 | 0♑ 2 | 29°16 | 16°47 | 14°11 | 3°57 | 20°15 | 23°53 | 14°45 | 3°D 1 | 4°49 | 15°34 | 20°42 | T 13 |
| W14 | 7 35 8 | 24°20'27 | 20°47 | 1°14 | 0♑31 | 17°34 | 14° 3 | 3°53 | 20°16 | 23°55 | 14°43 | 3° 3 | 4°46 | 15°41 | 20°43 | W14 |
| T 15 | 7 39 5 | 25°21'32 | 3♈14 | 2°28 | 1°46 | 18°21 | 13°55 | 3°48 | 20°17 | 23°57 | 14°42 | 3° 4 | 4°43 | 15°48 | 20°44 | T 15 |
| F 16 | 7 43 1 | 26°22'36 | 15°58 | 3°43 | 3° 1 | 19° 9 | 13°47 | 3°43 | 20°18 | 23°59 | 14°41 | 3° 6 | 4°40 | 15°54 | 20°45 | F 16 |
| S 17 | 7 46 58 | 27°23'40 | 29° 5 | 5° 0 | 4°16 | 19°56 | 13°40 | 3°38 | 20°19 | 24° 1 | 14°40 | 3°R 6 | 4°37 | 16° 1 | 20°46 | S 17 |
| S 18 | 7 50 55 | 28°24'42 | 12♉37 | 6°18 | 5°31 | 20°43 | 13°32 | 3°33 | 20°20 | 24° 4 | 14°38 | 3° 5 | 4°33 | 16° 8 | 20°47 | S 18 |
| M19 | 7 54 51 | 29°25'44 | 26°35 | 7°38 | 6°45 | 21°31 | 13°24 | 3°28 | 20°21 | 24° 6 | 14°37 | 3° 3 | 4°30 | 16°14 | 20°48 | M19 |
| T 20 | 7 58 48 | 0♒26'44 | 11♊ 1 | 8°59 | 8° 0 | 22°18 | 13°17 | 3°23 | 20°22 | 24° 8 | 14°36 | 2°59 | 4°27 | 16°21 | 20°49 | T 20 |
| W21 | 8 2 44 | 1°27'43 | 25°50 | 10°21 | 9°15 | 23° 6 | 13°10 | 3°18 | 20°23 | 24°10 | 14°35 | 2°54 | 4°24 | 16°28 | 20°50 | W21 |
| T 22 | 8 6 41 | 2°28'42 | 10♋56 | 11°43 | 10°30 | 23°53 | 13° 2 | 3°14 | 20°25 | 24°12 | 14°34 | 2°50 | 4°21 | 16°34 | 20°51 | T 22 |
| F 23 | 8 10 37 | 3°29'39 | 26°11 | 13° 7 | 11°45 | 24°40 | 12°55 | 3° 9 | 20°26 | 24°14 | 14°32 | 2°46 | 4°18 | 16°41 | 20°53 | F 23 |
| S 24 | 8 14 34 | 4°30'35 | 11♌23 | 14°32 | 13° 0 | 25°28 | 12°48 | 3° 4 | 20°27 | 24°16 | 14°31 | 2°43 | 4°14 | 16°48 | 20°54 | S 24 |
| S 25 | 8 18 30 | 5°31'30 | 26°23 | 15°58 | 14°15 | 26°15 | 12°41 | 2°59 | 20°28 | 24°19 | 14°30 | 2°D42 | 4°11 | 16°54 | 20°55 | S 25 |
| M26 | 8 22 27 | 6°32'24 | 11♍ 3 | 17°25 | 15°29 | 27° 2 | 12°34 | 2°54 | 20°30 | 24°21 | 14°29 | 2°42 | 4° 8 | 17° 1 | 20°57 | M26 |
| T 27 | 8 26 24 | 7°33'18 | 25°18 | 18°52 | 16°44 | 27°50 | 12°28 | 2°49 | 20°31 | 24°23 | 14°28 | 2°43 | 4° 5 | 17° 8 | 20°58 | T 27 |
| W28 | 8 30 20 | 8°34'10 | 9♎ 4 | 20°21 | 17°59 | 28°37 | 12°21 | 2°44 | 20°33 | 24°25 | 14°26 | 2°44 | 4° 2 | 17°15 | 21° 0 | W28 |
| T 29 | 8 34 17 | 9°35'02 | 22°24 | 21°50 | 19°14 | 29°24 | 12°15 | 2°39 | 20°34 | 24°27 | 14°25 | 2°46 | 3°59 | 17°21 | 21° 2 | T 29 |
| F 30 | 8 38 13 | 10°35'53 | 5♏18 | 23°20 | 20°29 | 0♓12 | 12° 8 | 2°34 | 20°36 | 24°30 | 14°24 | 2°R47 | 3°55 | 17°28 | 21° 3 | F 30 |
| S 31 | 8 42 10 | 11♒36'43 | 17♏52 | 24♑51 | 21♑44 | 0♓59 | 12♋ 2 | 2♌30 | 20♈38 | 24♒32 | 14♋23 | 2♍47 | 3♍52 | 17♉35 | 21♈ 5 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 1 | 2s22 | 3n16 | 20s22 | 2n42 | 21s32 | 1n 2 | 19s35 | 1s 9 | 22n46 | 0n13 | 19n37 | 0n33 | 7n21 | 0s35 | 14s11 | 0s30 | 22n17 | 0s21 | 10n 1 | 9n32 | 18s43 | 8n24 | 0n22 |
| F 2 | 22 56 | 6 25 | 4 3 | 20 32 | 2 34 | 21 43 | 0 59 | 19 23 | 1 9 | 22 47 | 0 13 | 19 38 | 0 33 | 7 21 | 0 35 | 14 10 | 0 30 | 22 17 | 0 21 | 10 1 | 9 33 | 18 43 | 8 24 | 0 22 |
| S 3 | 22 50 | 10 5 | 4 38 | 20 43 | 2 26 | 21 53 | 0 57 | 19 10 | 1 9 | 22 48 | 0 13 | 19 39 | 0 33 | 7 21 | 0 35 | 14 9 | 0 30 | 22 17 | 0 21 | 10 2 | 9 34 | 18 43 | 8 24 | 0 22 |
| S 4 | 22 44 | 13 16 | 4 59 | 20 54 | 2 18 | 22 2 | 0 54 | 18 58 | 1 9 | 22 49 | 0 14 | 19 40 | 0 34 | 7 21 | 0 35 | 14 9 | 0 30 | 22 18 | 0 21 | 10 4 | 9 35 | 18 43 | 8 24 | 0 21 |
| M 5 | 22 37 | 15 49 | 5 7 | 21 5 | 2 9 | 22 11 | 0 52 | 18 44 | 1 8 | 22 50 | 0 14 | 19 42 | 0 34 | 7 21 | 0 35 | 14 8 | 0 30 | 22 18 | 0 21 | 10 7 | 9 36 | 18 43 | 8 24 | 0 21 |
| T 6 | 22 30 | 17 41 | 5 1 | 21 17 | 2 0 | 22 20 | 0 49 | 18 31 | 1 8 | 22 51 | 0 14 | 19 43 | 0 34 | 7 21 | 0 35 | 14 8 | 0 30 | 22 18 | 0 21 | 10 10 | 9 37 | 18 43 | 8 24 | 0 21 |
| W 7 | 22 22 | 18 45 | 4 42 | 21 29 | 1 51 | 22 27 | 0 46 | 18 18 | 1 8 | 22 52 | 0 14 | 19 44 | 0 34 | 7 22 | 0 35 | 14 7 | 0 30 | 22 18 | 0 21 | 10 14 | 9 38 | 18 42 | 8 24 | 0 21 |
| T 8 | 22 14 | 19 0 | 4 10 | 21 41 | 1 41 | 22 34 | 0 44 | 18 4 | 1 8 | 22 53 | 0 14 | 19 45 | 0 34 | 7 22 | 0 35 | 14 6 | 0 30 | 22 18 | 0 21 | 10 17 | 9 40 | 18 42 | 8 24 | 0 21 |
| F 9 | 22 6 | 18 25 | 3 28 | 21 52 | 1 32 | 22 40 | 0 41 | 17 50 | 1 7 | 22 54 | 0 14 | 19 46 | 0 34 | 7 22 | 0 35 | 14 6 | 0 30 | 22 19 | 0 21 | 10 20 | 9 41 | 18 42 | 8 24 | 0 21 |
| S 10 | 21 57 | 17 2 | 2 37 | 22 4 | 1 23 | 22 46 | 0 39 | 17 36 | 1 7 | 22 55 | 0 14 | 19 48 | 0 34 | 7 22 | 0 35 | 14 5 | 0 30 | 22 19 | 0 21 | 10 22 | 9 42 | 18 42 | 8 24 | 0 21 |
| S 11 | 21 47 | 14 55 | 1 38 | 22 14 | 1 13 | 22 50 | 0 36 | 17 22 | 1 7 | 22 56 | 0 15 | 19 49 | 0 34 | 7 23 | 0 35 | 14 4 | 0 30 | 22 19 | 0 21 | 10 24 | 9 43 | 18 42 | 8 24 | 0 21 |
| M12 | 21 38 | 12 8 | 0 35 | 22 24 | 1 4 | 22 55 | 0 33 | 17 8 | 1 6 | 22 57 | 0 15 | 19 50 | 0 35 | 7 23 | 0 35 | 14 4 | 0 30 | 22 19 | 0 20 | 10 25 | 9 44 | 18 42 | 8 25 | 0 21 |
| T 13 | 21 28 | 8 50 | 0s30 | 22 34 | 0 55 | 22 58 | 0 31 | 16 53 | 1 6 | 22 58 | 0 15 | 19 51 | 0 35 | 7 23 | 0 35 | 14 3 | 0 30 | 22 19 | 0 20 | 10 25 | 9 45 | 18 41 | 8 25 | 0 21 |
| W14 | 21 17 | 5 7 | 1 35 | 22 43 | 0 46 | 23 1 | 0 28 | 16 38 | 1 6 | 22 59 | 0 15 | 19 53 | 0 35 | 7 24 | 0 35 | 14 2 | 0 30 | 22 20 | 0 20 | 10 24 | 9 47 | 18 41 | 8 25 | 0 20 |
| T 15 | 21 6 | 1 7 | 2 37 | 22 51 | 0 37 | 23 3 | 0 25 | 16 23 | 1 6 | 23 0 | 0 15 | 19 54 | 0 35 | 7 24 | 0 35 | 14 2 | 0 30 | 22 20 | 0 20 | 10 24 | 9 48 | 18 41 | 8 25 | 0 20 |
| F 16 | 20 55 | 3n 1 | 3 33 | 22 58 | 0 28 | 23 4 | 0 23 | 16 8 | 1 5 | 23 1 | 0 15 | 19 55 | 0 35 | 7 24 | 0 35 | 14 1 | 0 30 | 22 20 | 0 20 | 10 23 | 9 49 | 18 41 | 8 25 | 0 20 |
| S 17 | 20 43 | 7 7 | 4 19 | 23 4 | 0 19 | 23 5 | 0 20 | 15 53 | 1 5 | 23 2 | 0 15 | 19 56 | 0 35 | 7 25 | 0 35 | 14 0 | 0 30 | 22 20 | 0 20 | 10 23 | 9 50 | 18 41 | 8 26 | 0 20 |
| S 18 | 20 31 | 11 0 | 4 53 | 23 9 | 0 11 | 23 5 | 0 17 | 15 38 | 1 5 | 23 3 | 0 15 | 19 58 | 0 35 | 7 25 | 0 35 | 14 0 | 0 30 | 22 20 | 0 20 | 10 23 | 9 51 | 18 41 | 8 26 | 0 20 |
| M19 | 20 18 | 14 23 | 5 11 | 23 13 | 0 2 | 23 4 | 0 14 | 15 22 | 1 4 | 23 4 | 0 16 | 19 59 | 0 35 | 7 26 | 0 35 | 13 59 | 0 30 | 22 21 | 0 20 | 10 24 | 9 52 | 18 40 | 8 26 | 0 20 |
| T 20 | 20 5 | 17 1 | 5 9 | 23 16 | 0s 6 | 23 2 | 0 12 | 15 7 | 1 4 | 23 4 | 0 16 | 20 0 | 0 35 | 7 26 | 0 35 | 13 58 | 0 30 | 22 21 | 0 20 | 10 26 | 9 54 | 18 40 | 8 27 | 0 20 |
| W21 | 19 52 | 18 37 | 4 48 | 23 18 | 0 14 | 23 0 | 0 9 | 14 51 | 1 4 | 23 5 | 0 16 | 20 1 | 0 36 | 7 27 | 0 35 | 13 58 | 0 30 | 22 21 | 0 20 | 10 27 | 9 55 | 18 40 | 8 27 | 0 20 |
| T 22 | 19 38 | 18 56 | 4 6 | 23 19 | 0 21 | 22 57 | 0 6 | 14 35 | 1 3 | 23 6 | 0 16 | 20 3 | 0 36 | 7 27 | 0 35 | 13 57 | 0 30 | 22 21 | 0 20 | 10 29 | 9 56 | 18 40 | 8 27 | 0 20 |
| F 23 | 19 24 | 17 53 | 3 7 | 23 19 | 0 29 | 22 54 | 0 4 | 14 18 | 1 3 | 23 7 | 0 16 | 20 4 | 0 36 | 7 28 | 0 35 | 13 56 | 0 30 | 22 21 | 0 20 | 10 30 | 9 57 | 18 39 | 8 28 | 0 20 |
| S 24 | 19 10 | 15 34 | 1 54 | 23 17 | 0 36 | 22 49 | 0 1 | 14 2 | 1 3 | 23 8 | 0 16 | 20 5 | 0 36 | 7 28 | 0 35 | 13 55 | 0 30 | 22 22 | 0 20 | 10 31 | 9 58 | 18 39 | 8 28 | 0 19 |
| S 25 | 18 55 | 12 12 | 0 35 | 23 14 | 0 43 | 22 44 | 0s 2 | 13 46 | 1 2 | 23 8 | 0 16 | 20 6 | 0 36 | 7 29 | 0 35 | 13 55 | 0 30 | 22 22 | 0 20 | 10 32 | 9 59 | 18 39 | 8 29 | 0 19 |
| M26 | 18 40 | 8 8 | 0n46 | 23 10 | 0 50 | 22 39 | 0 4 | 13 29 | 1 2 | 23 9 | 0 16 | 20 8 | 0 36 | 7 29 | 0 35 | 13 54 | 0 30 | 22 22 | 0 20 | 10 32 | 10 1 | 18 39 | 8 29 | 0 19 |
| T 27 | 18 25 | 3 44 | 2 1 | 23 5 | 0 57 | 22 32 | 0 7 | 13 13 | 1 2 | 23 10 | 0 16 | 20 9 | 0 36 | 7 30 | 0 35 | 13 53 | 0 30 | 22 22 | 0 19 | 10 31 | 10 2 | 18 39 | 8 30 | 0 19 |
| W28 | 18 9 | 0s44 | 3 7 | 22 58 | 1 3 | 22 25 | 0 9 | 12 56 | 1 1 | 23 11 | 0 17 | 20 10 | 0 36 | 7 30 | 0 35 | 13 53 | 0 30 | 22 22 | 0 19 | 10 31 | 10 3 | 18 38 | 8 30 | 0 19 |
| T 29 | 17 53 | 5 0 | 4 1 | 22 51 | 1 9 | 22 18 | 0 12 | 12 39 | 1 1 | 23 11 | 0 17 | 20 11 | 0 36 | 7 31 | 0 34 | 13 52 | 0 30 | 22 23 | 0 19 | 10 30 | 10 4 | 18 38 | 8 31 | 0 19 |
| F 30 | 17 36 | 8 55 | 4 40 | 22 41 | 1 15 | 22 9 | 0 15 | 12 22 | 1 0 | 23 12 | 0 17 | 20 13 | 0 36 | 7 32 | 0 34 | 13 51 | 0 30 | 22 23 | 0 19 | 10 30 | 10 5 | 18 38 | 8 31 | 0 19 |
| S 31 | 17s20 | 12s18 | 5n 5 | 22s31 | 1s21 | 22s 0 | 0s17 | 12s 5 | 1s 0 | 23n13 | 0n17 | 20n14 | 0n37 | 7n32 | 0s34 | 13s50 | 0s30 | 22n23 | 0s19 | 10n30 | 10n 6 | 18s38 | 8n32 | 0n19 |

Julian Day Number = 2335398.5, Delta T = 22.53 sec
Ecliptic obliquity = 23°28'41, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'05, Lahiri = 19°25'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## FEBRUARY 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 46 6 | 12♒37'32 | 0♐ 8 | 26♑23 | 22♑59 | 1♓46 | 11°R56 | 2°R25 | 20♈39 | 24♒34 | 14°R22 | 2°R46 | 3♍49 | 17♑41 | 21♈ 7 | S 1 |
| M 2 | 8 50 3 | 13°38'20 | 12°12 | 27°55 | 24°14 | 2°33 | 11♋50 | 2♌20 | 20°41 | 24°36 | 14♋21 | 2♍44 | 3°46 | 17°48 | 21° 9 | M 2 |
| T 3 | 8 53 59 | 14°39'07 | 24° 8 | 29°28 | 25°29 | 3°21 | 11°44 | 2°15 | 20°43 | 24°39 | 14°20 | 2°41 | 3°43 | 17°55 | 21°11 | T 3 |
| W 4 | 8 57 56 | 15°39'53 | 5♑58 | 1♒ 2 | 26°43 | 4° 8 | 11°39 | 2°10 | 20°45 | 24°41 | 14°19 | 2°38 | 3°39 | 18° 1 | 21°13 | W 4 |
| T 5 | 9 1 53 | 16°40'37 | 17°47 | 2°37 | 27°58 | 4°55 | 11°33 | 2° 6 | 20°47 | 24°43 | 14°18 | 2°35 | 3°36 | 18° 8 | 21°15 | T 5 |
| F 6 | 9 5 49 | 17°41'21 | 29°37 | 4°13 | 29°13 | 5°42 | 11°28 | 2° 1 | 20°49 | 24°45 | 14°17 | 2°33 | 3°33 | 18°15 | 21°17 | F 6 |
| S 7 | 9 9 46 | 18°42'03 | 11♒31 | 5°49 | 0♒28 | 6°30 | 11°23 | 1°56 | 20°51 | 24°48 | 14°16 | 2°31 | 3°30 | 18°21 | 21°19 | S 7 |
| S 8 | 9 13 42 | 19°42'44 | 23°31 | 7°27 | 1°43 | 7°17 | 11°18 | 1°52 | 20°53 | 24°50 | 14°15 | 2°30 | 3°27 | 18°28 | 21°21 | S 8 |
| M 9 | 9 17 39 | 20°43'23 | 5♓37 | 9° 5 | 2°58 | 8° 4 | 11°13 | 1°47 | 20°55 | 24°52 | 14°13 | 2°D30 | 3°24 | 18°35 | 21°23 | M 9 |
| T 10 | 9 21 35 | 21°44'01 | 17°52 | 10°44 | 4°13 | 8°51 | 11° 8 | 1°43 | 20°57 | 24°54 | 14°13 | 2°31 | 3°20 | 18°41 | 21°26 | T 10 |
| W11 | 9 25 32 | 22°44'37 | 0♈19 | 12°24 | 5°28 | 9°38 | 11° 4 | 1°38 | 20°59 | 24°57 | 14°12 | 2°31 | 3°17 | 18°48 | 21°28 | W11 |
| T 12 | 9 29 28 | 23°45'12 | 12°57 | 14° 4 | 6°42 | 10°25 | 11° 0 | 1°34 | 21° 1 | 24°59 | 14°11 | 2°32 | 3°14 | 18°55 | 21°30 | T 12 |
| F 13 | 9 33 25 | 24°45'44 | 25°51 | 15°46 | 7°57 | 11°12 | 10°56 | 1°30 | 21° 3 | 25° 1 | 14°10 | 2°33 | 3°11 | 19° 1 | 21°33 | F 13 |
| S 14 | 9 37 22 | 25°46'15 | 9♉ 2 | 17°28 | 9°12 | 11°59 | 10°52 | 1°25 | 21° 5 | 25° 3 | 14° 9 | 2°34 | 3° 8 | 19° 8 | 21°35 | S 14 |
| S 15 | 9 41 18 | 26°46'44 | 22°31 | 19°12 | 10°27 | 12°46 | 10°48 | 1°21 | 21° 8 | 25° 6 | 14° 8 | 2°R34 | 3° 5 | 19°15 | 21°38 | S 15 |
| M16 | 9 45 15 | 27°47'11 | 6♊20 | 20°56 | 11°42 | 13°33 | 10°44 | 1°17 | 21°10 | 25° 8 | 14° 7 | 2°34 | 3° 1 | 19°22 | 21°40 | M16 |
| T 17 | 9 49 11 | 28°47'37 | 20°30 | 22°42 | 12°57 | 14°20 | 10°41 | 1°13 | 21°12 | 25°10 | 14° 6 | 2°34 | 2°58 | 19°28 | 21°43 | T 17 |
| W18 | 9 53 8 | 29°48'00 | 4♋57 | 24°28 | 14°11 | 15° 7 | 10°38 | 1° 9 | 21°15 | 25°13 | 14° 5 | 2°34 | 2°55 | 19°35 | 21°45 | W18 |
| T 19 | 9 57 4 | 0♓48'21 | 19°40 | 26°15 | 15°26 | 15°54 | 10°35 | 1° 5 | 21°17 | 25°15 | 14° 4 | 2°33 | 2°52 | 19°42 | 21°48 | T 19 |
| F 20 | 10 1 1 | 1°48'41 | 4♌32 | 28° 3 | 16°41 | 16°41 | 10°32 | 1° 1 | 21°20 | 25°17 | 14° 4 | 2°33 | 2°49 | 19°48 | 21°51 | F 20 |
| S 21 | 10 4 57 | 2°48'58 | 19°27 | 29°53 | 17°56 | 17°28 | 10°29 | 0°57 | 21°22 | 25°19 | 14° 3 | 2°D33 | 2°45 | 19°55 | 21°53 | S 21 |
| S 22 | 10 8 54 | 3°49'14 | 4♍16 | 1♓43 | 19°11 | 18°15 | 10°27 | 0°54 | 21°25 | 25°22 | 14° 2 | 2°R33 | 2°42 | 20° 2 | 21°56 | S 22 |
| M23 | 10 12 51 | 4°49'28 | 18°51 | 3°34 | 20°25 | 19° 2 | 10°25 | 0°50 | 21°27 | 25°24 | 14° 1 | 2°33 | 2°39 | 20° 8 | 21°59 | M23 |
| T 24 | 10 16 47 | 5°49'40 | 3♎ 7 | 5°26 | 21°40 | 19°48 | 10°23 | 0°46 | 21°30 | 25°26 | 14° 1 | 2°33 | 2°36 | 20°15 | 22° 2 | T 24 |
| W25 | 10 20 44 | 6°49'50 | 17° 0 | 7°19 | 22°55 | 20°35 | 10°21 | 0°43 | 21°33 | 25°28 | 14° 0 | 2°32 | 2°33 | 20°22 | 22° 5 | W25 |
| T 26 | 10 24 40 | 7°49'59 | 0♏27 | 9°13 | 24°10 | 21°22 | 10°19 | 0°39 | 21°35 | 25°31 | 13°59 | 2°32 | 2°30 | 20°28 | 22° 8 | T 26 |
| F 27 | 10 28 37 | 8°50'06 | 13°29 | 11° 7 | 25°24 | 22° 8 | 10°18 | 0°36 | 21°38 | 25°33 | 13°58 | 2°31 | 2°26 | 20°35 | 22°11 | F 27 |
| S 28 | 10 32 33 | 9♓50'12 | 26♏ 9 | 13♓ 3 | 26♒39 | 22♓55 | 10♋16 | 0♌33 | 21♈41 | 25♒35 | 13♋58 | 2♍31 | 2♍23 | 20♑42 | 22♈14 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 3 | 15s 5 | 5n15 | 22s19 | 1s26 | 21s50 | 0s20 | 11s47 | 1s 0 | 23n13 | 0n17 | 20n15 | 0n37 | 7n33 | 0s34 | 13s50 | 0s30 | 22n23 | 0s19 | 10n30 | 10n 7 | 18s37 | 8n32 | 0n19 |
| M 2 | 16 45 | 17 9 | 5 11 | 22 6 | 1 31 | 21 40 | 0 22 | 11 30 | 0 59 | 23 14 | 0 17 | 20 16 | 0 37 | 7 34 | 0 34 | 13 49 | 0 30 | 22 23 | 0 19 | 10 31 | 10 9 | 18 37 | 8 33 | 0 19 |
| T 3 | 16 28 | 18 27 | 4 54 | 21 51 | 1 36 | 21 29 | 0 25 | 11 12 | 0 59 | 23 15 | 0 17 | 20 17 | 0 37 | 7 34 | 0 34 | 13 48 | 0 30 | 22 23 | 0 19 | 10 32 | 10 10 | 18 37 | 8 34 | 0 18 |
| W 4 | 16 10 | 18 57 | 4 24 | 21 35 | 1 40 | 21 17 | 0 27 | 10 55 | 0 58 | 23 15 | 0 17 | 20 18 | 0 37 | 7 35 | 0 34 | 13 47 | 0 30 | 22 24 | 0 19 | 10 33 | 10 11 | 18 37 | 8 34 | 0 18 |
| T 5 | 15 52 | 18 37 | 3 43 | 21 18 | 1 44 | 21 5 | 0 29 | 10 37 | 0 58 | 23 16 | 0 17 | 20 20 | 0 37 | 7 36 | 0 34 | 13 47 | 0 30 | 22 24 | 0 19 | 10 34 | 10 12 | 18 36 | 8 35 | 0 18 |
| F 6 | 15 33 | 17 27 | 2 52 | 20 59 | 1 48 | 20 52 | 0 32 | 10 19 | 0 57 | 23 16 | 0 17 | 20 21 | 0 37 | 7 37 | 0 34 | 13 46 | 0 30 | 22 24 | 0 19 | 10 35 | 10 13 | 18 36 | 8 36 | 0 18 |
| S 7 | 15 15 | 15 32 | 1 54 | 20 39 | 1 51 | 20 38 | 0 34 | 10 2 | 0 57 | 23 17 | 0 18 | 20 22 | 0 37 | 7 37 | 0 34 | 13 45 | 0 30 | 22 24 | 0 19 | 10 36 | 10 14 | 18 36 | 8 36 | 0 18 |
| S 8 | 14 56 | 12 55 | 0 50 | 20 17 | 1 55 | 20 24 | 0 36 | 9 44 | 0 57 | 23 17 | 0 18 | 20 23 | 0 37 | 7 38 | 0 34 | 13 44 | 0 30 | 22 24 | 0 19 | 10 36 | 10 16 | 18 36 | 8 37 | 0 18 |
| M 9 | 14 37 | 9 44 | 0s17 | 19 54 | 1 57 | 20 9 | 0 39 | 9 26 | 0 56 | 23 18 | 0 18 | 20 24 | 0 37 | 7 39 | 0 34 | 13 44 | 0 30 | 22 25 | 0 19 | 10 36 | 10 17 | 18 35 | 8 38 | 0 18 |
| T 10 | 14 17 | 6 6 | 1 24 | 19 30 | 2 0 | 19 54 | 0 41 | 9 7 | 0 56 | 23 18 | 0 18 | 20 25 | 0 37 | 7 40 | 0 34 | 13 43 | 0 30 | 22 25 | 0 19 | 10 36 | 10 18 | 18 35 | 8 39 | 0 18 |
| W11 | 13 57 | 2 9 | 2 28 | 19 4 | 2 2 | 19 38 | 0 43 | 8 49 | 0 55 | 23 19 | 0 18 | 20 26 | 0 38 | 7 41 | 0 34 | 13 42 | 0 30 | 22 25 | 0 18 | 10 36 | 10 19 | 18 35 | 8 39 | 0 18 |
| T 12 | 13 37 | 1n57 | 3 26 | 18 36 | 2 3 | 19 21 | 0 45 | 8 31 | 0 55 | 23 19 | 0 18 | 20 27 | 0 38 | 7 41 | 0 34 | 13 41 | 0 30 | 22 25 | 0 18 | 10 35 | 10 20 | 18 35 | 8 40 | 0 18 |
| F 13 | 13 17 | 6 3 | 4 15 | 18 7 | 2 5 | 19 4 | 0 47 | 8 13 | 0 54 | 23 20 | 0 18 | 20 28 | 0 38 | 7 42 | 0 34 | 13 41 | 0 30 | 22 25 | 0 18 | 10 35 | 10 21 | 18 34 | 8 41 | 0 18 |
| S 14 | 12 57 | 9 55 | 4 51 | 17 37 | 2 6 | 18 47 | 0 49 | 7 54 | 0 54 | 23 20 | 0 18 | 20 29 | 0 38 | 7 43 | 0 34 | 13 40 | 0 30 | 22 25 | 0 18 | 10 35 | 10 22 | 18 34 | 8 42 | 0 17 |
| S 15 | 12 36 | 13 23 | 5 13 | 17 5 | 2 6 | 18 28 | 0 51 | 7 36 | 0 53 | 23 21 | 0 18 | 20 30 | 0 38 | 7 44 | 0 34 | 13 39 | 0 30 | 22 26 | 0 18 | 10 35 | 10 24 | 18 34 | 8 43 | 0 17 |
| M16 | 12 16 | 16 12 | 5 17 | 16 32 | 2 6 | 18 10 | 0 53 | 7 17 | 0 53 | 23 21 | 0 18 | 20 31 | 0 38 | 7 45 | 0 34 | 13 38 | 0 30 | 22 26 | 0 18 | 10 35 | 10 25 | 18 33 | 8 44 | 0 17 |
| T 17 | 11 55 | 18 7 | 5 2 | 15 57 | 2 6 | 17 50 | 0 55 | 6 59 | 0 52 | 23 21 | 0 18 | 20 32 | 0 38 | 7 46 | 0 34 | 13 38 | 0 30 | 22 26 | 0 18 | 10 35 | 10 26 | 18 33 | 8 44 | 0 17 |
| W18 | 11 34 | 18 55 | 4 28 | 15 21 | 2 5 | 17 31 | 0 57 | 6 40 | 0 52 | 23 22 | 0 19 | 20 33 | 0 38 | 7 47 | 0 34 | 13 37 | 0 30 | 22 26 | 0 18 | 10 35 | 10 27 | 18 33 | 8 45 | 0 17 |
| T 19 | 11 12 | 18 28 | 3 37 | 14 44 | 2 4 | 17 10 | 0 59 | 6 21 | 0 51 | 23 22 | 0 19 | 20 34 | 0 38 | 7 48 | 0 34 | 13 36 | 0 30 | 22 26 | 0 18 | 10 35 | 10 28 | 18 32 | 8 46 | 0 17 |
| F 20 | 10 51 | 16 44 | 2 30 | 14 5 | 2 2 | 16 50 | 1 1 | 6 3 | 0 51 | 23 22 | 0 19 | 20 35 | 0 38 | 7 49 | 0 34 | 13 35 | 0 30 | 22 26 | 0 18 | 10 35 | 10 29 | 18 32 | 8 47 | 0 17 |
| S 21 | 10 29 | 13 52 | 1 12 | 13 24 | 2 0 | 16 28 | 1 2 | 5 44 | 0 50 | 23 22 | 0 19 | 20 36 | 0 38 | 7 50 | 0 34 | 13 35 | 0 30 | 22 27 | 0 18 | 10 35 | 10 30 | 18 32 | 8 48 | 0 17 |
| S 22 | 10 7 | 10 7 | 0n 9 | 12 42 | 1 57 | 16 7 | 1 4 | 5 25 | 0 50 | 23 23 | 0 19 | 20 37 | 0 38 | 7 51 | 0 34 | 13 34 | 0 30 | 22 27 | 0 18 | 10 35 | 10 32 | 18 32 | 8 49 | 0 17 |
| M23 | 9 45 | 5 47 | 1 29 | 11 59 | 1 54 | 15 45 | 1 6 | 5 6 | 0 49 | 23 23 | 0 19 | 20 38 | 0 38 | 7 52 | 0 34 | 13 33 | 0 30 | 22 27 | 0 18 | 10 35 | 10 33 | 18 31 | 8 50 | 0 17 |
| T 24 | 9 23 | 1 14 | 2 42 | 11 14 | 1 50 | 15 22 | 1 7 | 4 48 | 0 49 | 23 23 | 0 19 | 20 39 | 0 38 | 7 53 | 0 34 | 13 32 | 0 30 | 22 27 | 0 18 | 10 35 | 10 34 | 18 31 | 8 51 | 0 17 |
| W25 | 9 1 | 3s15 | 3 43 | 10 28 | 1 46 | 14 59 | 1 9 | 4 29 | 0 48 | 23 23 | 0 19 | 20 39 | 0 38 | 7 54 | 0 34 | 13 32 | 0 30 | 22 27 | 0 17 | 10 35 | 10 35 | 18 31 | 8 52 | 0 16 |
| T 26 | 8 39 | 7 27 | 4 29 | 9 41 | 1 41 | 14 36 | 1 10 | 4 10 | 0 48 | 23 24 | 0 19 | 20 40 | 0 39 | 7 55 | 0 34 | 13 31 | 0 30 | 22 27 | 0 17 | 10 35 | 10 36 | 18 30 | 8 53 | 0 16 |
| F 27 | 8 16 | 11 8 | 5 0 | 8 52 | 1 35 | 14 12 | 1 12 | 3 51 | 0 47 | 23 24 | 0 19 | 20 41 | 0 39 | 7 56 | 0 34 | 13 30 | 0 30 | 22 27 | 0 17 | 10 36 | 10 37 | 18 30 | 8 54 | 0 16 |
| S 28 | 7s54 | 14s12 | 5n16 | 8s 3 | 1s29 | 13s48 | 1s13 | 3s32 | 0s47 | 23n24 | 0n19 | 20n42 | 0n39 | 7n57 | 0s34 | 13s29 | 0s30 | 22n28 | 0s17 | 10n36 | 10n38 | 18s30 | 8n55 | 0n16 |

Julian Day Number = 2335429.5, Delta T = 22.49 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'09, Lahiri = 19°25'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## MARCH 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 36 30 | 10♓50'16 | 8♐30 | 14♓59 | 27♒54 | 23♓42 | 10°R15 | 0°R30 | 21♈44 | 25♒37 | 13°R57 | 2°D30 | 2♍20 | 20♑48 | 22♈17 | S 1 |
| M 2 | 10 40 26 | 11°50'18 | 20°35 | 16°55 | 29° 9 | 24°28 | 10♋15 | 0♌27 | 21°46 | 25°40 | 13♋57 | 2♍31 | 2°17 | 20°55 | 22°20 | M 2 |
| T 3 | 10 44 23 | 12°50'19 | 2♑31 | 18°52 | 0♓23 | 25°15 | 10°14 | 0°24 | 21°49 | 25°42 | 13°56 | 2°31 | 2°14 | 21° 2 | 22°23 | T 3 |
| W 4 | 10 48 19 | 13°50'19 | 14°21 | 20°49 | 1°38 | 26° 1 | 10°13 | 0°21 | 21°52 | 25°44 | 13°55 | 2°32 | 2°10 | 21° 8 | 22°26 | W 4 |
| T 5 | 10 52 16 | 14°50'16 | 26°10 | 22°46 | 2°53 | 26°48 | 10°13 | 0°18 | 21°55 | 25°46 | 13°55 | 2°33 | 2° 7 | 21°15 | 22°29 | T 5 |
| F 6 | 10 56 13 | 15°50'12 | 8♒ 2 | 24°43 | 4° 7 | 27°34 | 10°D13 | 0°15 | 21°58 | 25°48 | 13°54 | 2°35 | 2° 4 | 21°22 | 22°32 | F 6 |
| S 7 | 11 0 9 | 16°50'06 | 20° 1 | 26°39 | 5°22 | 28°21 | 10°13 | 0°13 | 22° 1 | 25°50 | 13°54 | 2°35 | 2° 1 | 21°28 | 22°35 | S 7 |
| S 8 | 11 4 6 | 17°49'58 | 2♓ 9 | 28°35 | 6°37 | 29° 7 | 10°14 | 0°10 | 22° 4 | 25°53 | 13°53 | 2°R36 | 1°58 | 21°35 | 22°39 | S 8 |
| M 9 | 11 8 2 | 18°49'48 | 14°28 | 0♈30 | 7°51 | 29°53 | 10°14 | 0° 8 | 22° 7 | 25°55 | 13°53 | 2°35 | 1°55 | 21°42 | 22°42 | M 9 |
| T 10 | 11 11 59 | 19°49'36 | 27° 0 | 2°23 | 9° 6 | 0♈40 | 10°15 | 0° 5 | 22°10 | 25°57 | 13°53 | 2°34 | 1°51 | 21°48 | 22°45 | T 10 |
| W11 | 11 15 55 | 20°49'22 | 9♈46 | 4°14 | 10°21 | 1°26 | 10°16 | 0° 3 | 22°13 | 25°59 | 13°52 | 2°32 | 1°48 | 21°55 | 22°49 | W11 |
| T 12 | 11 19 52 | 21°49'06 | 22°46 | 6° 2 | 11°35 | 2°12 | 10°17 | 0° 1 | 22°16 | 26° 1 | 13°52 | 2°29 | 1°45 | 22° 2 | 22°52 | T 12 |
| F 13 | 11 23 48 | 22°48'48 | 6♉ 0 | 7°48 | 12°50 | 2°58 | 10°18 | 29♋59 | 22°19 | 26° 3 | 13°51 | 2°26 | 1°42 | 22° 8 | 22°55 | F 13 |
| S 14 | 11 27 45 | 23°48'28 | 19°27 | 9°31 | 14° 5 | 3°45 | 10°20 | 29°57 | 22°22 | 26° 5 | 13°51 | 2°23 | 1°39 | 22°15 | 22°59 | S 14 |
| S 15 | 11 31 42 | 24°48'05 | 3♊ 6 | 11°10 | 15°19 | 4°31 | 10°21 | 29°55 | 22°25 | 26° 7 | 13°51 | 2°21 | 1°36 | 22°22 | 23° 2 | S 15 |
| M16 | 11 35 38 | 25°47'41 | 16°58 | 12°45 | 16°34 | 5°17 | 10°23 | 29°54 | 22°28 | 26° 9 | 13°50 | 2°20 | 1°32 | 22°29 | 23° 6 | M16 |
| T 17 | 11 39 35 | 26°47'13 | 1♋ 0 | 14°15 | 17°48 | 6° 3 | 10°25 | 29°52 | 22°31 | 26°11 | 13°50 | 2°D20 | 1°29 | 22°35 | 23° 9 | T 17 |
| W18 | 11 43 31 | 27°46'44 | 15°12 | 15°40 | 19° 3 | 6°49 | 10°27 | 29°51 | 22°35 | 26°13 | 13°50 | 2°20 | 1°26 | 22°42 | 23°13 | W18 |
| T 19 | 11 47 28 | 28°46'12 | 29°33 | 17° 0 | 20°18 | 7°35 | 10°30 | 29°49 | 22°38 | 26°15 | 13°50 | 2°22 | 1°23 | 22°49 | 23°16 | T 19 |
| F 20 | 11 51 24 | 29°45'38 | 13♌58 | 18°13 | 21°32 | 8°21 | 10°32 | 29°48 | 22°41 | 26°17 | 13°50 | 2°23 | 1°20 | 22°55 | 23°20 | F 20 |
| S 21 | 11 55 21 | 0♈45'01 | 28°25 | 19°21 | 22°47 | 9° 6 | 10°35 | 29°47 | 22°44 | 26°19 | 13°49 | 2°R24 | 1°16 | 23° 2 | 23°23 | S 21 |
| S 22 | 11 59 17 | 1°44'23 | 12♍49 | 20°22 | 24° 1 | 9°52 | 10°38 | 29°46 | 22°48 | 26°21 | 13°49 | 2°24 | 1°13 | 23° 9 | 23°27 | S 22 |
| M23 | 12 3 14 | 2°43'42 | 27° 4 | 21°16 | 25°16 | 10°38 | 10°41 | 29°45 | 22°51 | 26°23 | 13°49 | 2°22 | 1°10 | 23°15 | 23°31 | M23 |
| T 24 | 12 7 11 | 3°42'58 | 11♎ 7 | 22° 4 | 26°30 | 11°24 | 10°45 | 29°44 | 22°54 | 26°25 | 13°49 | 2°19 | 1° 7 | 23°22 | 23°34 | T 24 |
| W25 | 12 11 7 | 4°42'13 | 24°52 | 22°44 | 27°44 | 12° 9 | 10°48 | 29°43 | 22°57 | 26°27 | 13°49 | 2°14 | 1° 4 | 23°29 | 23°38 | W25 |
| T 26 | 12 15 4 | 5°41'26 | 8♏16 | 23°17 | 28°59 | 12°55 | 10°52 | 29°42 | 23° 1 | 26°29 | 13°49 | 2° 9 | 1° 1 | 23°35 | 23°42 | T 26 |
| F 27 | 12 19 0 | 6°40'37 | 21°20 | 23°43 | 0♈13 | 13°41 | 10°56 | 29°42 | 23° 4 | 26°31 | 13°D49 | 2° 3 | 0°57 | 23°42 | 23°45 | F 27 |
| S 28 | 12 22 57 | 7°39'47 | 4♐ 2 | 24° 2 | 1°28 | 14°26 | 11° 0 | 29°42 | 23° 7 | 26°33 | 13°49 | 1°58 | 0°54 | 23°49 | 23°49 | S 28 |
| S 29 | 12 26 53 | 8°38'54 | 16°25 | 24°13 | 2°42 | 15°12 | 11° 4 | 29°41 | 23°11 | 26°34 | 13°49 | 1°54 | 0°51 | 23°55 | 23°53 | S 29 |
| M30 | 12 30 50 | 9°38'00 | 28°33 | 24°R17 | 3°57 | 15°57 | 11° 8 | 29°41 | 23°14 | 26°36 | 13°49 | 1°52 | 0°48 | 24° 2 | 23°56 | M30 |
| T 31 | 12 34 46 | 10♈37'04 | 10♑30 | 24♈14 | 5♈11 | 16♈42 | 11♋13 | 29°D41 | 23♈18 | 26♒38 | 13♋49 | 1°D51 | 0♍45 | 24♑ 9 | 24♈ 0 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s31 | 16s33 | 5n16 | 7s12 | 1s22 | 13s23 | 1s14 | 3s13 | 0s46 | 23n24 | 0n19 | 20n42 | 0n39 | 7n58 | 0s34 | 13s29 | 0s30 | 22n28 | 0s17 | 10n36 | 10n40 | 18s29 | 8n56 | 0n16 |
| M 2 | 7 8 | 18 7 | 5 2 | 6 20 | 1 15 | 12 58 | 1 15 | 2 54 | 0 46 | 23 24 | 0 19 | 20 43 | 0 39 | 7 59 | 0 34 | 13 28 | 0 30 | 22 28 | 0 17 | 10 36 | 10 41 | 18 29 | 8 57 | 0 16 |
| T 3 | 6 45 | 18 52 | 4 35 | 5 27 | 1 7 | 12 33 | 1 17 | 2 35 | 0 45 | 23 24 | 0 19 | 20 44 | 0 39 | 8 0 | 0 34 | 13 27 | 0 30 | 22 28 | 0 17 | 10 36 | 10 42 | 18 29 | 8 58 | 0 16 |
| W 4 | 6 22 | 18 47 | 3 57 | 4 33 | 0 59 | 12 7 | 1 18 | 2 16 | 0 45 | 23 24 | 0 20 | 20 44 | 0 39 | 8 1 | 0 33 | 13 26 | 0 30 | 22 28 | 0 17 | 10 35 | 10 43 | 18 28 | 8 59 | 0 16 |
| T 5 | 5 59 | 17 52 | 3 9 | 3 38 | 0 50 | 11 41 | 1 19 | 1 57 | 0 44 | 23 25 | 0 20 | 20 45 | 0 39 | 8 2 | 0 33 | 13 26 | 0 30 | 22 28 | 0 17 | 10 35 | 10 44 | 18 28 | 9 0 | 0 16 |
| F 6 | 5 36 | 16 10 | 2 12 | 2 43 | 0 40 | 11 15 | 1 20 | 1 38 | 0 44 | 23 25 | 0 20 | 20 46 | 0 39 | 8 3 | 0 33 | 13 25 | 0 30 | 22 28 | 0 17 | 10 34 | 10 45 | 18 28 | 9 2 | 0 16 |
| S 7 | 5 12 | 13 44 | 1 9 | 1 48 | 0 30 | 10 49 | 1 21 | 1 19 | 0 43 | 23 25 | 0 20 | 20 46 | 0 39 | 8 4 | 0 33 | 13 24 | 0 30 | 22 28 | 0 17 | 10 34 | 10 46 | 18 27 | 9 3 | 0 16 |
| S 8 | 4 49 | 10 41 | 0 3 | 0 52 | 0 20 | 10 22 | 1 22 | 1 0 | 0 42 | 23 25 | 0 20 | 20 47 | 0 39 | 8 5 | 0 33 | 13 23 | 0 30 | 22 29 | 0 17 | 10 34 | 10 48 | 18 27 | 9 4 | 0 16 |
| M 9 | 4 26 | 7 8 | 1s 5 | 0n 4 | 0 9 | 9 55 | 1 22 | 0 41 | 0 42 | 23 25 | 0 20 | 20 48 | 0 39 | 8 7 | 0 33 | 13 23 | 0 30 | 22 29 | 0 17 | 10 34 | 10 49 | 18 26 | 9 5 | 0 15 |
| T 10 | 4 2 | 3 12 | 2 11 | 0 59 | 0n 3 | 9 27 | 1 23 | 0 22 | 0 41 | 23 25 | 0 20 | 20 48 | 0 39 | 8 8 | 0 33 | 13 22 | 0 30 | 22 29 | 0 17 | 10 35 | 10 50 | 18 26 | 9 6 | 0 15 |
| W11 | 3 39 | 0n57 | 3 11 | 1 55 | 0 15 | 9 0 | 1 24 | 0 3 | 0 41 | 23 25 | 0 20 | 20 49 | 0 39 | 8 9 | 0 33 | 13 21 | 0 30 | 22 29 | 0 17 | 10 35 | 10 51 | 18 26 | 9 7 | 0 15 |
| T 12 | 3 15 | 5 7 | 4 3 | 2 49 | 0 27 | 8 32 | 1 24 | 0n16 | 0 40 | 23 25 | 0 20 | 20 49 | 0 39 | 8 10 | 0 33 | 13 21 | 0 31 | 22 29 | 0 16 | 10 36 | 10 52 | 18 25 | 9 8 | 0 15 |
| F 13 | 2 51 | 9 6 | 4 42 | 3 42 | 0 39 | 8 4 | 1 25 | 0 35 | 0 40 | 23 25 | 0 20 | 20 50 | 0 39 | 8 11 | 0 33 | 13 20 | 0 31 | 22 29 | 0 16 | 10 37 | 10 53 | 18 25 | 9 10 | 0 15 |
| S 14 | 2 28 | 12 41 | 5 7 | 4 35 | 0 52 | 7 35 | 1 25 | 0 54 | 0 39 | 23 25 | 0 20 | 20 50 | 0 39 | 8 12 | 0 33 | 13 19 | 0 31 | 22 29 | 0 16 | 10 38 | 10 54 | 18 25 | 9 11 | 0 15 |
| S 15 | 2 4 | 15 40 | 5 15 | 5 25 | 1 5 | 7 7 | 1 26 | 1 12 | 0 38 | 23 25 | 0 20 | 20 50 | 0 39 | 8 14 | 0 33 | 13 19 | 0 31 | 22 29 | 0 16 | 10 39 | 10 56 | 18 24 | 9 12 | 0 15 |
| M16 | 1 40 | 17 47 | 5 5 | 6 14 | 1 17 | 6 38 | 1 26 | 1 31 | 0 38 | 23 24 | 0 20 | 20 51 | 0 39 | 8 15 | 0 33 | 13 18 | 0 31 | 22 29 | 0 16 | 10 40 | 10 57 | 18 24 | 9 13 | 0 15 |
| T 17 | 1 17 | 18 52 | 4 36 | 7 1 | 1 30 | 6 9 | 1 26 | 1 50 | 0 37 | 23 24 | 0 20 | 20 51 | 0 39 | 8 16 | 0 33 | 13 17 | 0 31 | 22 29 | 0 16 | 10 40 | 10 58 | 18 23 | 9 14 | 0 15 |
| W18 | 0 53 | 18 47 | 3 51 | 7 45 | 1 42 | 5 40 | 1 27 | 2 9 | 0 37 | 23 24 | 0 20 | 20 52 | 0 39 | 8 17 | 0 33 | 13 17 | 0 31 | 22 30 | 0 16 | 10 39 | 10 59 | 18 23 | 9 16 | 0 15 |
| T 19 | 0 29 | 17 30 | 2 51 | 8 27 | 1 55 | 5 11 | 1 27 | 2 28 | 0 36 | 23 24 | 0 20 | 20 52 | 0 39 | 8 18 | 0 33 | 13 16 | 0 31 | 22 30 | 0 16 | 10 39 | 11 0 | 18 23 | 9 17 | 0 15 |
| F 20 | 0 6 | 15 4 | 1 40 | 9 6 | 2 6 | 4 42 | 1 27 | 2 46 | 0 36 | 23 24 | 0 20 | 20 52 | 0 39 | 8 20 | 0 33 | 13 15 | 0 31 | 22 30 | 0 16 | 10 38 | 11 1 | 18 22 | 9 18 | 0 14 |
| S 21 | 0n18 | 11 42 | 0 22 | 9 42 | 2 17 | 4 12 | 1 27 | 3 5 | 0 35 | 23 24 | 0 20 | 20 52 | 0 40 | 8 21 | 0 33 | 13 15 | 0 31 | 22 30 | 0 16 | 10 38 | 11 2 | 18 22 | 9 19 | 0 14 |
| S 22 | 0 42 | 7 38 | 0n57 | 10 15 | 2 28 | 3 43 | 1 27 | 3 23 | 0 34 | 23 24 | 0 21 | 20 53 | 0 40 | 8 22 | 0 33 | 13 14 | 0 31 | 22 30 | 0 16 | 10 38 | 11 3 | 18 21 | 9 21 | 0 14 |
| M23 | 1 5 | 3 10 | 2 11 | 10 45 | 2 38 | 3 13 | 1 27 | 3 42 | 0 34 | 23 23 | 0 21 | 20 53 | 0 40 | 8 23 | 0 33 | 13 13 | 0 31 | 22 30 | 0 16 | 10 39 | 11 5 | 18 21 | 9 22 | 0 14 |
| T 24 | 1 29 | 1s24 | 3 16 | 11 11 | 2 47 | 2 43 | 1 27 | 4 0 | 0 33 | 23 23 | 0 21 | 20 53 | 0 40 | 8 24 | 0 33 | 13 13 | 0 31 | 22 30 | 0 16 | 10 40 | 11 6 | 18 21 | 9 23 | 0 14 |
| W25 | 1 52 | 5 47 | 4 8 | 11 33 | 2 54 | 2 13 | 1 26 | 4 19 | 0 33 | 23 23 | 0 21 | 20 53 | 0 40 | 8 26 | 0 33 | 13 12 | 0 31 | 22 30 | 0 16 | 10 42 | 11 7 | 18 20 | 9 24 | 0 14 |
| T 26 | 2 16 | 9 47 | 4 45 | 11 52 | 3 1 | 1 43 | 1 26 | 4 37 | 0 32 | 23 23 | 0 21 | 20 54 | 0 40 | 8 27 | 0 33 | 13 11 | 0 31 | 22 30 | 0 15 | 10 44 | 11 8 | 18 20 | 9 26 | 0 14 |
| F 27 | 2 39 | 13 11 | 5 6 | 12 7 | 3 7 | 1 13 | 1 26 | 4 55 | 0 31 | 23 22 | 0 21 | 20 54 | 0 40 | 8 28 | 0 33 | 13 11 | 0 31 | 22 30 | 0 15 | 10 46 | 11 9 | 18 19 | 9 27 | 0 14 |
| S 28 | 3 3 | 15 53 | 5 11 | 12 18 | 3 12 | 0 43 | 1 25 | 5 14 | 0 31 | 23 22 | 0 21 | 20 54 | 0 40 | 8 29 | 0 33 | 13 10 | 0 31 | 22 30 | 0 15 | 10 48 | 11 10 | 18 19 | 9 28 | 0 14 |
| S 29 | 3 26 | 17 47 | 5 2 | 12 26 | 3 15 | 0 13 | 1 25 | 5 32 | 0 30 | 23 22 | 0 21 | 20 54 | 0 40 | 8 31 | 0 33 | 13 10 | 0 31 | 22 30 | 0 15 | 10 49 | 11 11 | 18 18 | 9 30 | 0 14 |
| M30 | 3 49 | 18 49 | 4 39 | 12 29 | 3 17 | 0n17 | 1 24 | 5 50 | 0 29 | 23 21 | 0 21 | 20 54 | 0 40 | 8 32 | 0 33 | 13 9 | 0 31 | 22 30 | 0 15 | 10 50 | 11 13 | 18 18 | 9 31 | 0 14 |
| T 31 | 4n13 | 19s 1 | 4n 4 | 12n28 | 3n17 | 0n47 | 1s24 | 6n 8 | 0s29 | 23n21 | 0n21 | 20n54 | 0n40 | 8n33 | 0s33 | 13s 8 | 0s31 | 22n31 | 0s15 | 10n50 | 11n14 | 18s18 | 9n32 | 0n14 |

Julian Day Number = 2335457.5, Delta T = 22.44 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'13, Lahiri = 19°25'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## APRIL 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 38 43 | 11♈36'06 | 22♑21 | 24°R 5 | 6♈25 | 17♈28 | 11♋18 | 29♋41 | 23♈21 | 26♒40 | 13♋49 | 1♍52 | 0♍42 | 24♑15 | 24♈ 4 | W 1 |
| T 2 | 12 42 39 | 12°35'06 | 4♒11 | 23♈49 | 7°40 | 18°13 | 11°22 | 29°41 | 23°24 | 26°42 | 13°49 | 1°53 | 0°38 | 24°22 | 24° 8 | T 2 |
| F 3 | 12 46 36 | 13°34'05 | 16° 4 | 23°28 | 8°54 | 18°58 | 11°28 | 29°41 | 23°28 | 26°43 | 13°50 | 1°55 | 0°35 | 24°29 | 24°11 | F 3 |
| S 4 | 12 50 33 | 14°33'01 | 28° 7 | 23° 1 | 10° 8 | 19°44 | 11°33 | 29°42 | 23°31 | 26°45 | 13°50 | 1°R56 | 0°32 | 24°35 | 24°15 | S 4 |
| S 5 | 12 54 29 | 15°31'56 | 10♓22 | 22°29 | 11°23 | 20°29 | 11°38 | 29°42 | 23°35 | 26°47 | 13°50 | 1°55 | 0°29 | 24°42 | 24°19 | S 5 |
| M 6 | 12 58 26 | 16°30'49 | 22°52 | 21°53 | 12°37 | 21°14 | 11°44 | 29°43 | 23°38 | 26°48 | 13°50 | 1°53 | 0°26 | 24°49 | 24°23 | M 6 |
| T 7 | 13 2 22 | 17°29'40 | 5♈41 | 21°14 | 13°51 | 21°59 | 11°49 | 29°43 | 23°41 | 26°50 | 13°50 | 1°49 | 0°22 | 24°55 | 24°26 | T 7 |
| W 8 | 13 6 19 | 18°28'29 | 18°48 | 20°32 | 15° 6 | 22°44 | 11°55 | 29°44 | 23°45 | 26°51 | 13°51 | 1°43 | 0°19 | 25° 2 | 24°30 | W 8 |
| T 9 | 13 10 15 | 19°27'16 | 2♉12 | 19°49 | 16°20 | 23°29 | 12° 1 | 29°45 | 23°48 | 26°53 | 13°51 | 1°35 | 0°16 | 25° 9 | 24°34 | T 9 |
| F 10 | 13 14 12 | 20°26'01 | 15°52 | 19° 5 | 17°34 | 24°14 | 12° 7 | 29°46 | 23°52 | 26°55 | 13°51 | 1°27 | 0°13 | 25°15 | 24°38 | F 10 |
| S 11 | 13 18 8 | 21°24'44 | 29°44 | 18°20 | 18°48 | 24°59 | 12°14 | 29°47 | 23°55 | 26°56 | 13°52 | 1°19 | 0°10 | 25°22 | 24°42 | S 11 |
| S 12 | 13 22 5 | 22°23'25 | 13♊45 | 17°37 | 20° 3 | 25°44 | 12°20 | 29°48 | 23°59 | 26°58 | 13°52 | 1°12 | 0° 7 | 25°29 | 24°46 | S 12 |
| M13 | 13 26 2 | 23°22'03 | 27°51 | 16°55 | 21°17 | 26°28 | 12°27 | 29°50 | 24° 2 | 26°59 | 13°52 | 1° 7 | 0° 3 | 25°35 | 24°49 | M13 |
| T 14 | 13 29 58 | 24°20'40 | 11♋59 | 16°15 | 22°31 | 27°13 | 12°33 | 29°51 | 24° 6 | 27° 0 | 13°53 | 1° 5 | 0° 0 | 25°42 | 24°53 | T 14 |
| W15 | 13 33 55 | 25°19'14 | 26° 8 | 15°38 | 23°45 | 27°58 | 12°40 | 29°53 | 24° 9 | 27° 2 | 13°53 | 1°D 4 | 29♌57 | 25°49 | 24°57 | W15 |
| T 16 | 13 37 51 | 26°17'46 | 10♌16 | 15° 5 | 24°59 | 28°42 | 12°47 | 29°54 | 24°12 | 27° 3 | 13°54 | 1° 5 | 29°54 | 25°55 | 25° 1 | T 16 |
| F 17 | 13 41 48 | 27°16'16 | 24°22 | 14°35 | 26°14 | 29°27 | 12°54 | 29°56 | 24°16 | 27° 5 | 13°54 | 1°R 6 | 29°51 | 26° 2 | 25° 5 | F 17 |
| S 18 | 13 45 44 | 28°14'43 | 8♍24 | 14°10 | 27°28 | 0♉11 | 13° 2 | 29°58 | 24°19 | 27° 6 | 13°55 | 1° 5 | 29°47 | 26° 9 | 25° 8 | S 18 |
| S 19 | 13 49 41 | 29°13'08 | 22°20 | 13°49 | 28°42 | 0°56 | 13° 9 | 29°59 | 24°23 | 27° 7 | 13°55 | 1° 4 | 29°44 | 26°15 | 25°12 | S 19 |
| M20 | 13 53 37 | 0♉11'32 | 6♎10 | 13°33 | 29°56 | 1°40 | 13°17 | 0♌ 2 | 24°26 | 27° 9 | 13°56 | 0°59 | 29°41 | 26°22 | 25°16 | M20 |
| T 21 | 13 57 34 | 1° 9'53 | 19°49 | 13°22 | 1♉10 | 2°25 | 13°24 | 0° 4 | 24°30 | 27°10 | 13°56 | 0°52 | 29°38 | 26°29 | 25°20 | T 21 |
| W22 | 14 1 31 | 2° 8'12 | 3♏15 | 13°16 | 2°24 | 3° 9 | 13°32 | 0° 7 | 24°33 | 27°11 | 13°57 | 0°43 | 29°35 | 26°35 | 25°24 | W22 |
| T 23 | 14 5 27 | 3° 6'30 | 16°26 | 13°D15 | 3°38 | 3°53 | 13°40 | 0° 9 | 24°36 | 27°12 | 13°58 | 0°33 | 29°32 | 26°42 | 25°27 | T 23 |
| F 24 | 14 9 24 | 4° 4'46 | 29°20 | 13°18 | 4°52 | 4°37 | 13°48 | 0°11 | 24°40 | 27°13 | 13°58 | 0°22 | 29°28 | 26°49 | 25°31 | F 24 |
| S 25 | 14 13 20 | 5° 3'00 | 11♐57 | 13°27 | 6° 6 | 5°22 | 13°56 | 0°14 | 24°43 | 27°14 | 13°59 | 0°11 | 29°25 | 26°55 | 25°35 | S 25 |
| S 26 | 14 17 17 | 6° 1'12 | 24°18 | 13°40 | 7°20 | 6° 6 | 14° 5 | 0°17 | 24°47 | 27°16 | 14° 0 | 0° 3 | 29°22 | 27° 2 | 25°39 | S 26 |
| M27 | 14 21 13 | 6°59'24 | 6♑25 | 13°58 | 8°34 | 6°50 | 14°13 | 0°19 | 24°50 | 27°17 | 14° 0 | 29♌56 | 29°19 | 27° 9 | 25°43 | M27 |
| T 28 | 14 25 10 | 7°57'33 | 18°22 | 14°20 | 9°48 | 7°34 | 14°22 | 0°22 | 24°53 | 27°18 | 14° 1 | 29°52 | 29°16 | 27°15 | 25°46 | T 28 |
| W29 | 14 29 6 | 8°55'41 | 0♒12 | 14°47 | 11° 2 | 8°18 | 14°30 | 0°25 | 24°57 | 27°19 | 14° 2 | 29°50 | 29°13 | 27°22 | 25°50 | W29 |
| T 30 | 14 33 3 | 9♉53'48 | 12♒ 2 | 15♈18 | 12♉16 | 9♉ 2 | 14♋39 | 0♌28 | 25♈ 0 | 27♒20 | 14♋ 3 | 29°D50 | 29♌ 9 | 27♑29 | 25♈54 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 4n36 | 18s21 | 3n19 | 12n24 | 3n16 | 1n17 | 1s23 | 6n26 | 0s28 | 23n21 | 0n21 | 20n54 | 0n40 | 8n34 | 0s33 | 13s 8 | 0s31 | 22n31 | 0s15 | 10n50 | 11n15 | 18s17 | 9n34 | 0n14 | W 1 |
| T 2 | 4 59 | 16 54 | 2 25 | 12 15 | 3 14 | 1 47 | 1 22 | 6 44 | 0 28 | 23 20 | 0 21 | 20 54 | 0 40 | 8 36 | 0 33 | 13 7 | 0 31 | 22 31 | 0 15 | 10 49 | 11 16 | 18 17 | 9 35 | 0 13 | T 2 |
| F 3 | 5 22 | 14 41 | 1 25 | 12 3 | 3 9 | 2 17 | 1 21 | 7 2 | 0 27 | 23 20 | 0 21 | 20 54 | 0 40 | 8 37 | 0 33 | 13 7 | 0 31 | 22 31 | 0 15 | 10 49 | 11 17 | 18 16 | 9 36 | 0 13 | F 3 |
| S 4 | 5 45 | 11 50 | 0 21 | 11 48 | 3 3 | 2 47 | 1 21 | 7 19 | 0 26 | 23 20 | 0 21 | 20 54 | 0 40 | 8 38 | 0 33 | 13 6 | 0 31 | 22 31 | 0 15 | 10 48 | 11 18 | 18 16 | 9 37 | 0 13 | S 4 |
| S 5 | 6 7 | 8 24 | 0s46 | 11 29 | 2 56 | 3 17 | 1 20 | 7 37 | 0 26 | 23 19 | 0 21 | 20 54 | 0 40 | 8 40 | 0 33 | 13 6 | 0 31 | 22 31 | 0 15 | 10 48 | 11 19 | 18 15 | 9 39 | 0 13 | S 5 |
| M 6 | 6 30 | 4 32 | 1 51 | 11 7 | 2 47 | 3 47 | 1 19 | 7 54 | 0 25 | 23 19 | 0 21 | 20 54 | 0 40 | 8 41 | 0 33 | 13 5 | 0 31 | 22 31 | 0 15 | 10 49 | 11 20 | 18 15 | 9 40 | 0 13 | M 6 |
| T 7 | 6 53 | 0 23 | 2 52 | 10 43 | 2 37 | 4 17 | 1 18 | 8 12 | 0 25 | 23 18 | 0 21 | 20 54 | 0 40 | 8 42 | 0 33 | 13 5 | 0 31 | 22 31 | 0 15 | 10 51 | 11 22 | 18 14 | 9 41 | 0 13 | T 7 |
| W 8 | 7 15 | 3n54 | 3 46 | 10 16 | 2 25 | 4 47 | 1 17 | 8 29 | 0 24 | 23 18 | 0 21 | 20 53 | 0 40 | 8 43 | 0 33 | 13 4 | 0 31 | 22 31 | 0 15 | 10 53 | 11 23 | 18 14 | 9 43 | 0 13 | W 8 |
| T 9 | 7 38 | 8 4 | 4 28 | 9 48 | 2 12 | 5 16 | 1 15 | 8 46 | 0 23 | 23 17 | 0 21 | 20 53 | 0 40 | 8 45 | 0 33 | 13 4 | 0 31 | 22 31 | 0 15 | 10 56 | 11 24 | 18 13 | 9 44 | 0 13 | T 9 |
| F 10 | 8 0 | 11 53 | 4 56 | 9 18 | 1 58 | 5 46 | 1 14 | 9 4 | 0 23 | 23 17 | 0 21 | 20 53 | 0 40 | 8 46 | 0 33 | 13 3 | 0 31 | 22 31 | 0 14 | 10 59 | 11 25 | 18 13 | 9 45 | 0 13 | F 10 |
| S 11 | 8 22 | 15 8 | 5 7 | 8 47 | 1 43 | 6 15 | 1 13 | 9 21 | 0 22 | 23 16 | 0 21 | 20 53 | 0 40 | 8 47 | 0 33 | 13 3 | 0 31 | 22 31 | 0 14 | 11 1 | 11 26 | 18 12 | 9 47 | 0 13 | S 11 |
| S 12 | 8 44 | 17 32 | 5 0 | 8 16 | 1 27 | 6 45 | 1 12 | 9 38 | 0 21 | 23 16 | 0 22 | 20 53 | 0 40 | 8 48 | 0 33 | 13 2 | 0 31 | 22 31 | 0 14 | 11 4 | 11 27 | 18 12 | 9 48 | 0 13 | S 12 |
| M13 | 9 6 | 18 53 | 4 35 | 7 45 | 1 11 | 7 14 | 1 10 | 9 54 | 0 21 | 23 15 | 0 22 | 20 52 | 0 40 | 8 50 | 0 33 | 13 2 | 0 31 | 22 31 | 0 14 | 11 6 | 11 28 | 18 11 | 9 49 | 0 13 | M13 |
| T 14 | 9 27 | 19 5 | 3 53 | 7 14 | 0 55 | 7 43 | 1 9 | 10 11 | 0 20 | 23 15 | 0 22 | 20 52 | 0 40 | 8 51 | 0 33 | 13 1 | 0 31 | 22 31 | 0 14 | 11 6 | 11 29 | 18 11 | 9 51 | 0 13 | T 14 |
| W15 | 9 49 | 18 4 | 2 56 | 6 45 | 0 38 | 8 11 | 1 7 | 10 28 | 0 19 | 23 14 | 0 22 | 20 52 | 0 40 | 8 52 | 0 33 | 13 1 | 0 31 | 22 31 | 0 14 | 11 7 | 11 30 | 18 10 | 9 52 | 0 12 | W15 |
| T 16 | 10 10 | 15 56 | 1 49 | 6 16 | 0 21 | 8 40 | 1 6 | 10 44 | 0 19 | 23 13 | 0 22 | 20 51 | 0 40 | 8 54 | 0 33 | 13 0 | 0 31 | 22 31 | 0 14 | 11 7 | 11 32 | 18 10 | 9 53 | 0 12 | T 16 |
| F 17 | 10 31 | 12 51 | 0 36 | 5 50 | 0 4 | 9 8 | 1 4 | 11 1 | 0 18 | 23 13 | 0 22 | 20 51 | 0 40 | 8 55 | 0 33 | 13 0 | 0 31 | 22 31 | 0 14 | 11 6 | 11 33 | 18 9 | 9 55 | 0 12 | F 17 |
| S 18 | 10 52 | 9 2 | 0n39 | 5 25 | 0s12 | 9 37 | 1 3 | 11 17 | 0 18 | 23 12 | 0 22 | 20 51 | 0 40 | 8 56 | 0 33 | 12 59 | 0 31 | 22 31 | 0 14 | 11 6 | 11 34 | 18 9 | 9 56 | 0 12 | S 18 |
| S 19 | 11 13 | 4 45 | 1 51 | 5 2 | 0 28 | 10 5 | 1 1 | 11 33 | 0 17 | 23 11 | 0 22 | 20 50 | 0 40 | 8 57 | 0 33 | 12 59 | 0 31 | 22 31 | 0 14 | 11 7 | 11 35 | 18 8 | 9 57 | 0 12 | S 19 |
| M20 | 11 33 | 0 15 | 2 56 | 4 41 | 0 44 | 10 32 | 0 59 | 11 49 | 0 16 | 23 11 | 0 22 | 20 50 | 0 40 | 8 59 | 0 33 | 12 58 | 0 31 | 22 31 | 0 14 | 11 8 | 11 36 | 18 8 | 9 59 | 0 12 | M20 |
| T 21 | 11 54 | 4s13 | 3 50 | 4 23 | 0 58 | 11 0 | 0 58 | 12 5 | 0 16 | 23 10 | 0 22 | 20 49 | 0 40 | 9 0 | 0 33 | 12 58 | 0 31 | 22 31 | 0 14 | 11 11 | 11 37 | 18 7 | 10 0 | 0 12 | T 21 |
| W22 | 12 14 | 8 23 | 4 30 | 4 8 | 1 13 | 11 27 | 0 56 | 12 21 | 0 15 | 23 9 | 0 22 | 20 49 | 0 40 | 9 1 | 0 33 | 12 58 | 0 31 | 22 31 | 0 14 | 11 14 | 11 38 | 18 7 | 10 1 | 0 12 | W22 |
| T 23 | 12 34 | 12 4 | 4 55 | 3 55 | 1 26 | 11 54 | 0 54 | 12 37 | 0 14 | 23 8 | 0 22 | 20 49 | 0 40 | 9 2 | 0 33 | 12 57 | 0 31 | 22 31 | 0 14 | 11 18 | 11 39 | 18 6 | 10 3 | 0 12 | T 23 |
| F 24 | 12 54 | 15 6 | 5 3 | 3 45 | 1 39 | 12 21 | 0 52 | 12 52 | 0 14 | 23 8 | 0 22 | 20 48 | 0 40 | 9 4 | 0 33 | 12 57 | 0 31 | 22 31 | 0 14 | 11 22 | 11 41 | 18 6 | 10 4 | 0 12 | F 24 |
| S 25 | 13 14 | 17 21 | 4 57 | 3 37 | 1 51 | 12 47 | 0 50 | 13 7 | 0 13 | 23 7 | 0 22 | 20 47 | 0 40 | 9 5 | 0 33 | 12 57 | 0 31 | 22 31 | 0 13 | 11 25 | 11 42 | 18 5 | 10 5 | 0 12 | S 25 |
| S 26 | 13 33 | 18 44 | 4 37 | 3 32 | 2 2 | 13 13 | 0 48 | 13 23 | 0 12 | 23 6 | 0 22 | 20 47 | 0 40 | 9 6 | 0 33 | 12 56 | 0 32 | 22 31 | 0 13 | 11 28 | 11 43 | 18 5 | 10 7 | 0 12 | S 26 |
| M27 | 13 52 | 19 15 | 4 5 | 3 29 | 2 12 | 13 39 | 0 46 | 13 38 | 0 12 | 23 5 | 0 22 | 20 46 | 0 40 | 9 7 | 0 33 | 12 56 | 0 32 | 22 31 | 0 13 | 11 31 | 11 44 | 18 4 | 10 8 | 0 12 | M27 |
| T 28 | 14 11 | 18 53 | 3 22 | 3 29 | 2 22 | 14 4 | 0 44 | 13 53 | 0 11 | 23 4 | 0 22 | 20 46 | 0 40 | 9 9 | 0 33 | 12 56 | 0 32 | 22 31 | 0 13 | 11 32 | 11 45 | 18 4 | 10 9 | 0 11 | T 28 |
| W29 | 14 30 | 17 41 | 2 31 | 3 31 | 2 30 | 14 30 | 0 42 | 14 8 | 0 11 | 23 3 | 0 22 | 20 45 | 0 40 | 9 10 | 0 33 | 12 55 | 0 32 | 22 31 | 0 13 | 11 33 | 11 46 | 18 3 | 10 10 | 0 11 | W29 |
| T 30 | 14n48 | 15s43 | 1n33 | 3n36 | 2s38 | 14n54 | 0s40 | 14n22 | 0s10 | 23n 2 | 0n22 | 20n44 | 0n40 | 9n11 | 0s33 | 12s55 | 0s32 | 22n31 | 0s13 | 11n33 | 11n47 | 18s 3 | 10n12 | 0n11 | T 30 |

Julian Day Number = 2335488.5, Delta T = 22.40 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'17, Lahiri = 19°25'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## MAY 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 37 0 | 10♉51'53 | 23♒56 | 15♈53 | 13♉30 | 9♉45 | 14♋48 | 0♌31 | 25♈ 4 | 27♒21 | 14♋ 3 | 29°R50 | 29♌ 6 | 27♑35 | 25♈58 | F 1 |
| S 2 | 14 40 56 | 11°49'57 | 5♓59 | 16°32 | 14°44 | 10°29 | 14°57 | 0°35 | 25° 7 | 27°22 | 14° 4 | 29♌50 | 29° 3 | 27°42 | 26° 1 | S 2 |
| S 3 | 14 44 53 | 12°47'59 | 18°18 | 17°14 | 15°58 | 11°13 | 15° 6 | 0°38 | 25°10 | 27°22 | 14° 5 | 29°49 | 29° 0 | 27°49 | 26° 5 | S 3 |
| M 4 | 14 48 49 | 13°46'00 | 0♈55 | 18° 1 | 17°12 | 11°57 | 15°16 | 0°41 | 25°13 | 27°23 | 14° 6 | 29°45 | 28°57 | 27°55 | 26° 9 | M 4 |
| T 5 | 14 52 46 | 14°43'59 | 13°55 | 18°50 | 18°26 | 12°40 | 15°25 | 0°45 | 25°17 | 27°24 | 14° 7 | 29°39 | 28°53 | 28° 2 | 26°12 | T 5 |
| W 6 | 14 56 42 | 15°41'57 | 27°17 | 19°43 | 19°40 | 13°24 | 15°34 | 0°49 | 25°20 | 27°25 | 14° 8 | 29°30 | 28°50 | 28° 9 | 26°16 | W 6 |
| T 7 | 15 0 39 | 16°39'54 | 11♉ 3 | 20°40 | 20°54 | 14° 7 | 15°44 | 0°52 | 25°23 | 27°26 | 14° 9 | 29°20 | 28°47 | 28°15 | 26°20 | T 7 |
| F 8 | 15 4 35 | 17°37'49 | 25° 7 | 21°39 | 22° 8 | 14°51 | 15°54 | 0°56 | 25°27 | 27°26 | 14°10 | 29° 8 | 28°44 | 28°22 | 26°23 | F 8 |
| S 9 | 15 8 32 | 18°35'43 | 9♊26 | 22°41 | 23°21 | 15°34 | 16° 3 | 1° 0 | 25°30 | 27°27 | 14°11 | 28°57 | 28°41 | 28°29 | 26°27 | S 9 |
| S 10 | 15 12 28 | 19°33'35 | 23°53 | 23°47 | 24°35 | 16°18 | 16°13 | 1° 4 | 25°33 | 27°28 | 14°12 | 28°47 | 28°38 | 28°35 | 26°31 | S 10 |
| M11 | 15 16 25 | 20°31'25 | 8♋22 | 24°55 | 25°49 | 17° 1 | 16°23 | 1° 8 | 25°36 | 27°29 | 14°13 | 28°40 | 28°34 | 28°42 | 26°34 | M11 |
| T 12 | 15 20 22 | 21°29'14 | 22°47 | 26° 6 | 27° 3 | 17°44 | 16°33 | 1°12 | 25°39 | 27°29 | 14°14 | 28°35 | 28°31 | 28°49 | 26°38 | T 12 |
| W13 | 15 24 18 | 22°27'01 | 7♌ 5 | 27°19 | 28°17 | 18°28 | 16°43 | 1°17 | 25°43 | 27°30 | 14°15 | 28°33 | 28°28 | 28°55 | 26°41 | W13 |
| T 14 | 15 28 15 | 23°24'46 | 21°13 | 28°35 | 29°31 | 19°11 | 16°54 | 1°21 | 25°46 | 27°30 | 14°16 | 28°32 | 28°25 | 29° 2 | 26°45 | T 14 |
| F 15 | 15 32 11 | 24°22'30 | 5♍11 | 29°54 | 0♊44 | 19°54 | 17° 4 | 1°25 | 25°49 | 27°31 | 14°17 | 28°32 | 28°22 | 29° 9 | 26°48 | F 15 |
| S 16 | 15 36 8 | 25°20'11 | 18°58 | 1♉15 | 1°58 | 20°37 | 17°14 | 1°30 | 25°52 | 27°31 | 14°18 | 28°32 | 28°19 | 29°15 | 26°52 | S 16 |
| S 17 | 15 40 4 | 26°17'52 | 2♎34 | 2°39 | 3°12 | 21°20 | 17°25 | 1°34 | 25°55 | 27°32 | 14°19 | 28°29 | 28°15 | 29°22 | 26°55 | S 17 |
| M18 | 15 44 1 | 27°15'30 | 16° 0 | 4° 5 | 4°26 | 22° 3 | 17°36 | 1°39 | 25°58 | 27°32 | 14°20 | 28°23 | 28°12 | 29°29 | 26°59 | M18 |
| T 19 | 15 47 57 | 28°13'08 | 29°16 | 5°33 | 5°39 | 22°46 | 17°46 | 1°44 | 26° 1 | 27°32 | 14°21 | 28°15 | 28° 9 | 29°35 | 27° 2 | T 19 |
| W20 | 15 51 54 | 29°10'43 | 12♏20 | 7° 4 | 6°53 | 23°29 | 17°57 | 1°49 | 26° 4 | 27°33 | 14°22 | 28° 4 | 28° 6 | 29°42 | 27° 5 | W20 |
| T 21 | 15 55 51 | 0♊ 8'18 | 25°11 | 8°38 | 8° 7 | 24°11 | 18° 8 | 1°53 | 26° 7 | 27°33 | 14°24 | 27°51 | 28° 3 | 29°49 | 27° 9 | T 21 |
| F 22 | 15 59 47 | 1° 5'51 | 7♐50 | 10°13 | 9°21 | 24°54 | 18°19 | 1°58 | 26°10 | 27°33 | 14°25 | 27°38 | 27°59 | 29°55 | 27°12 | F 22 |
| S 23 | 16 3 44 | 2° 3'24 | 20°16 | 11°51 | 10°34 | 25°37 | 18°30 | 2° 3 | 26°13 | 27°34 | 14°26 | 27°26 | 27°56 | 0♒ 2 | 27°15 | S 23 |
| S 24 | 16 7 40 | 3° 0'55 | 2♑29 | 13°32 | 11°48 | 26°20 | 18°41 | 2° 9 | 26°16 | 27°34 | 14°27 | 27°15 | 27°53 | 0° 9 | 27°19 | S 24 |
| M25 | 16 11 37 | 3°58'25 | 14°31 | 15°15 | 13° 2 | 27° 2 | 18°52 | 2°14 | 26°19 | 27°34 | 14°28 | 27° 6 | 27°50 | 0°15 | 27°22 | M25 |
| T 26 | 16 15 33 | 4°55'55 | 26°25 | 17° 0 | 14°15 | 27°45 | 19° 3 | 2°19 | 26°22 | 27°34 | 14°30 | 27° 1 | 27°47 | 0°22 | 27°25 | T 26 |
| W27 | 16 19 30 | 5°53'23 | 8♒14 | 18°47 | 15°29 | 28°27 | 19°15 | 2°24 | 26°25 | 27°34 | 14°31 | 26°57 | 27°44 | 0°29 | 27°28 | W27 |
| T 28 | 16 23 27 | 6°50'51 | 20° 2 | 20°37 | 16°43 | 29°10 | 19°26 | 2°30 | 26°28 | 27°34 | 14°32 | 26°56 | 27°40 | 0°35 | 27°32 | T 28 |
| F 29 | 16 27 23 | 7°48'18 | 1♓55 | 22°29 | 17°56 | 29°52 | 19°37 | 2°35 | 26°30 | 27°34 | 14°34 | 26°56 | 27°37 | 0°42 | 27°35 | F 29 |
| S 30 | 16 31 20 | 8°45'44 | 13°58 | 24°24 | 19°10 | 0♊34 | 19°49 | 2°41 | 26°33 | 27°R35 | 14°35 | 26°56 | 27°34 | 0°49 | 27°38 | S 30 |
| S 31 | 16 35 16 | 9♊43'09 | 26♓16 | 26♉20 | 20♊23 | 1♊17 | 20♋ 0 | 2♌46 | 26♈36 | 27♒35 | 14♋36 | 26♌55 | 27♌31 | 0♒55 | 27♈41 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 15n 7 | 13s 4 | 0n31 | 3n43 | 2s45 | 15n19 | 0s38 | 14n37 | 0s 9 | 23n 2 | 0n22 | 20n44 | 0n40 | 9n12 | 0s33 | 12s55 | 0s32 | 22n31 | 0s13 | 11n33 | 11n48 | 18s 2 | 10n13 | 0n11 |
| S 2 | 15 25 | 9 50 | 0s33 | 3 53 | 2 51 | 15 43 | 0 36 | 14 51 | 0 9 | 23 1 | 0 22 | 20 43 | 0 40 | 9 14 | 0 33 | 12 54 | 0 32 | 22 31 | 0 13 | 11 33 | 11 49 | 18 2 | 10 14 | 0 11 |
| S 3 | 15 42 | 6 7 | 1 37 | 4 4 | 2 56 | 16 6 | 0 34 | 15 6 | 0 8 | 23 0 | 0 22 | 20 42 | 0 41 | 9 15 | 0 33 | 12 54 | 0 32 | 22 31 | 0 13 | 11 33 | 11 51 | 18 1 | 10 16 | 0 11 |
| M 4 | 16 0 | 2 2 | 2 37 | 4 17 | 3 1 | 16 29 | 0 32 | 15 20 | 0 7 | 22 59 | 0 22 | 20 42 | 0 41 | 9 16 | 0 33 | 12 54 | 0 32 | 22 31 | 0 13 | 11 35 | 11 52 | 18 0 | 10 17 | 0 11 |
| T 5 | 16 17 | 2n15 | 3 31 | 4 33 | 3 5 | 16 52 | 0 29 | 15 34 | 0 7 | 22 58 | 0 23 | 20 41 | 0 41 | 9 17 | 0 33 | 12 53 | 0 32 | 22 31 | 0 13 | 11 37 | 11 53 | 18 0 | 10 18 | 0 11 |
| W 6 | 16 34 | 6 33 | 4 15 | 4 50 | 3 8 | 17 15 | 0 27 | 15 47 | 0 6 | 22 56 | 0 23 | 20 40 | 0 41 | 9 18 | 0 33 | 12 53 | 0 32 | 22 31 | 0 13 | 11 40 | 11 54 | 17 59 | 10 19 | 0 11 |
| T 7 | 16 51 | 10 38 | 4 46 | 5 9 | 3 10 | 17 36 | 0 25 | 16 1 | 0 5 | 22 55 | 0 23 | 20 39 | 0 41 | 9 20 | 0 33 | 12 53 | 0 32 | 22 31 | 0 13 | 11 44 | 11 55 | 17 59 | 10 21 | 0 11 |
| F 8 | 17 7 | 14 13 | 5 0 | 5 30 | 3 11 | 17 58 | 0 23 | 16 15 | 0 5 | 22 54 | 0 23 | 20 39 | 0 41 | 9 21 | 0 33 | 12 53 | 0 32 | 22 31 | 0 13 | 11 48 | 11 56 | 17 58 | 10 22 | 0 11 |
| S 9 | 17 23 | 17 1 | 4 56 | 5 52 | 3 12 | 18 19 | 0 20 | 16 28 | 0 4 | 22 53 | 0 23 | 20 38 | 0 41 | 9 22 | 0 33 | 12 53 | 0 32 | 22 31 | 0 13 | 11 52 | 11 57 | 17 58 | 10 23 | 0 11 |
| S 10 | 17 39 | 18 47 | 4 33 | 6 16 | 3 12 | 18 39 | 0 18 | 16 41 | 0 4 | 22 52 | 0 23 | 20 37 | 0 41 | 9 23 | 0 33 | 12 52 | 0 32 | 22 31 | 0 12 | 11 55 | 11 58 | 17 57 | 10 24 | 0 11 |
| M11 | 17 55 | 19 21 | 3 52 | 6 41 | 3 12 | 18 59 | 0 16 | 16 54 | 0 3 | 22 51 | 0 23 | 20 36 | 0 41 | 9 24 | 0 33 | 12 52 | 0 32 | 22 31 | 0 12 | 11 58 | 11 59 | 17 56 | 10 26 | 0 10 |
| T 12 | 18 10 | 18 38 | 2 57 | 7 8 | 3 10 | 19 19 | 0 13 | 17 7 | 0 2 | 22 50 | 0 23 | 20 35 | 0 41 | 9 25 | 0 33 | 12 52 | 0 32 | 22 31 | 0 12 | 11 59 | 12 0 | 17 56 | 10 27 | 0 10 |
| W13 | 18 25 | 16 45 | 1 51 | 7 36 | 3 8 | 19 38 | 0 11 | 17 19 | 0 2 | 22 49 | 0 23 | 20 34 | 0 41 | 9 27 | 0 33 | 12 52 | 0 32 | 22 31 | 0 12 | 12 0 | 12 2 | 17 55 | 10 28 | 0 10 |
| T 14 | 18 39 | 13 50 | 0 39 | 8 6 | 3 6 | 19 56 | 0 9 | 17 32 | 0 1 | 22 47 | 0 23 | 20 33 | 0 41 | 9 28 | 0 33 | 12 52 | 0 32 | 22 31 | 0 12 | 12 0 | 12 3 | 17 55 | 10 29 | 0 10 |
| F 15 | 18 54 | 10 10 | 0n35 | 8 36 | 3 3 | 20 14 | 0 6 | 17 44 | 0 0 | 22 46 | 0 23 | 20 32 | 0 41 | 9 29 | 0 33 | 12 51 | 0 32 | 22 31 | 0 12 | 12 0 | 12 4 | 17 54 | 10 30 | 0 10 |
| S 16 | 19 8 | 6 0 | 1 46 | 9 8 | 2 59 | 20 32 | 0 4 | 17 56 | 0n 0 | 22 45 | 0 23 | 20 31 | 0 41 | 9 30 | 0 33 | 12 51 | 0 32 | 22 31 | 0 12 | 12 0 | 12 5 | 17 53 | 10 32 | 0 10 |
| S 17 | 19 21 | 1 34 | 2 50 | 9 41 | 2 55 | 20 49 | 0 1 | 18 8 | 0 1 | 22 43 | 0 23 | 20 30 | 0 41 | 9 31 | 0 33 | 12 51 | 0 32 | 22 31 | 0 12 | 12 1 | 12 6 | 17 53 | 10 33 | 0 10 |
| M18 | 19 35 | 2s53 | 3 43 | 10 14 | 2 50 | 21 5 | 0n 1 | 18 20 | 0 2 | 22 42 | 0 23 | 20 29 | 0 41 | 9 32 | 0 33 | 12 51 | 0 32 | 22 30 | 0 12 | 12 3 | 12 7 | 17 52 | 10 34 | 0 10 |
| T 19 | 19 48 | 7 7 | 4 23 | 10 49 | 2 44 | 21 20 | 0 3 | 18 32 | 0 2 | 22 41 | 0 23 | 20 28 | 0 41 | 9 33 | 0 33 | 12 51 | 0 32 | 22 30 | 0 12 | 12 6 | 12 8 | 17 52 | 10 35 | 0 10 |
| W20 | 20 0 | 10 58 | 4 49 | 11 24 | 2 38 | 21 36 | 0 6 | 18 43 | 0 3 | 22 39 | 0 23 | 20 27 | 0 41 | 9 34 | 0 33 | 12 51 | 0 32 | 22 30 | 0 12 | 12 10 | 12 9 | 17 51 | 10 36 | 0 10 |
| T 21 | 20 13 | 14 14 | 5 0 | 12 0 | 2 32 | 21 50 | 0 8 | 18 54 | 0 4 | 22 38 | 0 23 | 20 26 | 0 41 | 9 35 | 0 33 | 12 51 | 0 32 | 22 30 | 0 12 | 12 14 | 12 10 | 17 50 | 10 37 | 0 10 |
| F 22 | 20 25 | 16 47 | 4 56 | 12 37 | 2 25 | 22 4 | 0 11 | 19 5 | 0 4 | 22 37 | 0 23 | 20 25 | 0 41 | 9 37 | 0 33 | 12 51 | 0 32 | 22 30 | 0 12 | 12 19 | 12 11 | 17 50 | 10 39 | 0 10 |
| S 23 | 20 36 | 18 31 | 4 37 | 13 15 | 2 17 | 22 17 | 0 13 | 19 16 | 0 5 | 22 35 | 0 23 | 20 24 | 0 41 | 9 38 | 0 33 | 12 51 | 0 32 | 22 30 | 0 12 | 12 23 | 12 13 | 17 49 | 10 40 | 0 10 |
| S 24 | 20 48 | 19 21 | 4 6 | 13 52 | 2 9 | 22 30 | 0 16 | 19 27 | 0 5 | 22 34 | 0 23 | 20 23 | 0 41 | 9 39 | 0 33 | 12 51 | 0 32 | 22 30 | 0 12 | 12 27 | 12 14 | 17 48 | 10 41 | 0 10 |
| M25 | 20 59 | 19 18 | 3 25 | 14 31 | 2 1 | 22 42 | 0 18 | 19 38 | 0 6 | 22 32 | 0 23 | 20 22 | 0 41 | 9 40 | 0 33 | 12 51 | 0 32 | 22 30 | 0 11 | 12 30 | 12 15 | 17 48 | 10 42 | 0 9 |
| T 26 | 21 9 | 18 23 | 2 34 | 15 9 | 1 52 | 22 53 | 0 20 | 19 48 | 0 7 | 22 31 | 0 24 | 20 21 | 0 41 | 9 41 | 0 33 | 12 51 | 0 32 | 22 30 | 0 11 | 12 32 | 12 16 | 17 47 | 10 43 | 0 9 |
| W27 | 21 19 | 16 40 | 1 38 | 15 48 | 1 42 | 23 4 | 0 23 | 19 58 | 0 7 | 22 29 | 0 24 | 20 19 | 0 41 | 9 42 | 0 33 | 12 51 | 0 32 | 22 30 | 0 11 | 12 33 | 12 17 | 17 47 | 10 44 | 0 9 |
| T 28 | 21 29 | 14 15 | 0 37 | 16 27 | 1 33 | 23 14 | 0 25 | 20 8 | 0 8 | 22 27 | 0 24 | 20 18 | 0 41 | 9 43 | 0 33 | 12 51 | 0 32 | 22 30 | 0 11 | 12 33 | 12 18 | 17 46 | 10 45 | 0 9 |
| F 29 | 21 39 | 11 13 | 0s26 | 17 5 | 1 23 | 23 23 | 0 27 | 20 18 | 0 9 | 22 26 | 0 24 | 20 17 | 0 41 | 9 44 | 0 33 | 12 51 | 0 32 | 22 30 | 0 11 | 12 33 | 12 19 | 17 45 | 10 46 | 0 9 |
| S 30 | 21 48 | 7 41 | 1 29 | 17 44 | 1 13 | 23 32 | 0 30 | 20 27 | 0 9 | 22 24 | 0 24 | 20 16 | 0 41 | 9 45 | 0 33 | 12 51 | 0 32 | 22 30 | 0 11 | 12 33 | 12 20 | 17 45 | 10 47 | 0 9 |
| S 31 | 21n57 | 3s46 | 2s29 | 18n22 | 1s 2 | 23n40 | 0n32 | 20n37 | 0n10 | 22n23 | 0n24 | 20n14 | 0n41 | 9n46 | 0s33 | 12s51 | 0s33 | 22n30 | 0s11 | 12n34 | 12n21 | 17s44 | 10n48 | 0n 9 |

Julian Day Number = 2335518.5, Delta T = 22.35 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'22, Lahiri = 19°25'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## JUNE 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 39 13 | 10♊40'34 | 8♈55 | 28♉19 | 21♊37 | 1♊59 | 20♋12 | 2♌52 | 26♈39 | 27°R34 | 14♋37 | 26°R52 | 27♌28 | 1♒ 2 | 27♈44 | M 1 |
| T 2 | 16 43 9 | 11°37'58 | 21°58 | 0♊20 | 22°51 | 2°41 | 20°24 | 2°58 | 26°41 | 27♒34 | 14°39 | 26♌47 | 27°24 | 1° 9 | 27°47 | T 2 |
| W 3 | 16 47 6 | 12°35'22 | 5♉28 | 2°23 | 24° 4 | 3°23 | 20°36 | 3° 4 | 26°44 | 27°34 | 14°40 | 26°39 | 27°21 | 1°15 | 27°50 | W 3 |
| T 4 | 16 51 2 | 13°32'45 | 19°24 | 4°27 | 25°18 | 4° 5 | 20°47 | 3° 9 | 26°47 | 27°34 | 14°42 | 26°30 | 27°18 | 1°22 | 27°53 | T 4 |
| F 5 | 16 54 59 | 14°30'07 | 3♊45 | 6°34 | 26°31 | 4°47 | 20°59 | 3°15 | 26°49 | 27°34 | 14°43 | 26°19 | 27°15 | 1°29 | 27°56 | F 5 |
| S 6 | 16 58 55 | 15°27'29 | 18°24 | 8°41 | 27°45 | 5°29 | 21°11 | 3°21 | 26°52 | 27°34 | 14°44 | 26° 9 | 27°12 | 1°35 | 27°59 | S 6 |
| S 7 | 17 2 52 | 16°24'50 | 3♋14 | 10°51 | 28°59 | 6°11 | 21°23 | 3°27 | 26°54 | 27°34 | 14°46 | 26° 0 | 27° 9 | 1°42 | 28° 1 | S 7 |
| M 8 | 17 6 49 | 17°22'10 | 18° 6 | 13° 1 | 0♋12 | 6°53 | 21°35 | 3°33 | 26°57 | 27°33 | 14°47 | 25°53 | 27° 5 | 1°49 | 28° 4 | M 8 |
| T 9 | 17 10 45 | 18°19'30 | 2♌53 | 15°12 | 1°26 | 7°35 | 21°47 | 3°40 | 26°59 | 27°33 | 14°49 | 25°49 | 27° 2 | 1°55 | 28° 7 | T 9 |
| W10 | 17 14 42 | 19°16'48 | 17°28 | 17°23 | 2°39 | 8°17 | 22° 0 | 3°46 | 27° 2 | 27°33 | 14°50 | 25°47 | 26°59 | 2° 2 | 28°10 | W10 |
| T 11 | 17 18 38 | 20°14'06 | 1♍47 | 19°35 | 3°53 | 8°58 | 22°12 | 3°52 | 27° 4 | 27°32 | 14°51 | 25°D47 | 26°56 | 2° 9 | 28°12 | T 11 |
| F 12 | 17 22 35 | 21°11'22 | 15°48 | 21°47 | 5° 6 | 9°40 | 22°24 | 3°58 | 27° 6 | 27°32 | 14°53 | 25°R47 | 26°53 | 2°15 | 28°15 | F 12 |
| S 13 | 17 26 31 | 22° 8'38 | 29°32 | 23°59 | 6°20 | 10°22 | 22°36 | 4° 5 | 27° 9 | 27°31 | 14°54 | 25°47 | 26°50 | 2°22 | 28°18 | S 13 |
| S 14 | 17 30 28 | 23° 5'53 | 12♎58 | 26°10 | 7°33 | 11° 3 | 22°49 | 4°11 | 27°11 | 27°31 | 14°56 | 25°45 | 26°46 | 2°29 | 28°20 | S 14 |
| M15 | 17 34 25 | 24° 3'07 | 26°10 | 28°20 | 8°47 | 11°45 | 23° 1 | 4°18 | 27°13 | 27°31 | 14°57 | 25°41 | 26°43 | 2°35 | 28°23 | M15 |
| T 16 | 17 38 21 | 25° 0'21 | 9♏ 7 | 0♋29 | 10° 0 | 12°26 | 23°14 | 4°24 | 27°15 | 27°30 | 14°59 | 25°35 | 26°40 | 2°42 | 28°25 | T 16 |
| W17 | 17 42 18 | 25°57'33 | 21°52 | 2°37 | 11°14 | 13° 8 | 23°26 | 4°31 | 27°17 | 27°29 | 15° 0 | 25°27 | 26°37 | 2°48 | 28°28 | W17 |
| T 18 | 17 46 14 | 26°54'46 | 4♐25 | 4°44 | 12°27 | 13°49 | 23°39 | 4°37 | 27°20 | 27°29 | 15° 2 | 25°17 | 26°34 | 2°55 | 28°30 | T 18 |
| F 19 | 17 50 11 | 27°51'58 | 16°48 | 6°49 | 13°40 | 14°30 | 23°51 | 4°44 | 27°22 | 27°28 | 15° 3 | 25° 6 | 26°30 | 3° 2 | 28°32 | F 19 |
| S 20 | 17 54 7 | 28°49'09 | 29° 0 | 8°52 | 14°54 | 15°12 | 24° 4 | 4°51 | 27°24 | 27°28 | 15° 5 | 24°56 | 26°27 | 3° 8 | 28°35 | S 20 |
| S 21 | 17 58 4 | 29°46'21 | 11♑ 3 | 10°54 | 16° 7 | 15°53 | 24°17 | 4°58 | 27°26 | 27°27 | 15° 6 | 24°48 | 26°24 | 3°15 | 28°37 | S 21 |
| M22 | 18 2 0 | 0♋43'32 | 22°59 | 12°54 | 17°21 | 16°34 | 24°29 | 5° 4 | 27°28 | 27°26 | 15° 8 | 24°41 | 26°21 | 3°22 | 28°39 | M22 |
| T 23 | 18 5 57 | 1°40'43 | 4♒49 | 14°52 | 18°34 | 17°15 | 24°42 | 5°11 | 27°30 | 27°26 | 15° 9 | 24°37 | 26°18 | 3°28 | 28°41 | T 23 |
| W24 | 18 9 54 | 2°37'54 | 16°36 | 16°47 | 19°47 | 17°56 | 24°55 | 5°18 | 27°31 | 27°25 | 15°11 | 24°35 | 26°15 | 3°35 | 28°43 | W24 |
| T 25 | 18 13 50 | 3°35'05 | 28°25 | 18°41 | 21° 1 | 18°37 | 25° 8 | 5°25 | 27°33 | 27°24 | 15°13 | 24°D34 | 26°11 | 3°42 | 28°45 | T 25 |
| F 26 | 18 17 47 | 4°32'16 | 10♓18 | 20°33 | 22°14 | 19°18 | 25°20 | 5°32 | 27°35 | 27°23 | 15°14 | 24°35 | 26° 8 | 3°48 | 28°47 | F 26 |
| S 27 | 18 21 43 | 5°29'27 | 22°20 | 22°23 | 23°27 | 19°59 | 25°33 | 5°39 | 27°37 | 27°22 | 15°16 | 24°36 | 26° 5 | 3°55 | 28°49 | S 27 |
| S 28 | 18 25 40 | 6°26'38 | 4♈38 | 24°10 | 24°41 | 20°40 | 25°46 | 5°46 | 27°39 | 27°22 | 15°17 | 24°R37 | 26° 2 | 4° 2 | 28°51 | S 28 |
| M29 | 18 29 36 | 7°23'49 | 17°14 | 25°56 | 25°54 | 21°21 | 25°59 | 5°53 | 27°40 | 27°21 | 15°19 | 24°37 | 25°59 | 4° 8 | 28°53 | M29 |
| T 30 | 18 33 33 | 8♋21'01 | 0♉15 | 27♋39 | 27♋ 7 | 22♊ 2 | 26♋12 | 6♌ 0 | 27♈42 | 27♒20 | 15♋20 | 24♌35 | 25♌56 | 4♒15 | 28♈55 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 22n 5 | 0n26 | 3s23 | 18n59 | 0s51 | 23n47 | 0n34 | 20n46 | 0n10 | 22n21 | 0n24 | 20n13 | 0n41 | 9n47 | 0s33 | 12s51 | 0s33 | 22n30 | 0s11 | 12n35 | 12n22 | 17s43 | 10n49 | 0n 9 | M 1 |
| T 2 | 22 13 | 4 43 | 4 9 | 19 35 | 0 41 | 23 54 | 0 37 | 20 55 | 0 11 | 22 19 | 0 24 | 20 12 | 0 41 | 9 48 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 36 | 12 24 | 17 43 | 10 50 | 0 9 | T 2 |
| W 3 | 22 21 | 8 56 | 4 42 | 20 11 | 0 30 | 24 0 | 0 39 | 21 3 | 0 12 | 22 18 | 0 24 | 20 11 | 0 41 | 9 49 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 39 | 12 25 | 17 42 | 10 51 | 0 9 | W 3 |
| T 4 | 22 28 | 12 48 | 5 0 | 20 46 | 0 19 | 24 5 | 0 41 | 21 12 | 0 12 | 22 16 | 0 24 | 20 9 | 0 41 | 9 49 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 42 | 12 26 | 17 41 | 10 52 | 0 9 | T 4 |
| F 5 | 22 35 | 16 2 | 5 0 | 21 19 | 0 8 | 24 9 | 0 43 | 21 20 | 0 13 | 22 14 | 0 24 | 20 8 | 0 41 | 9 50 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 46 | 12 27 | 17 41 | 10 53 | 0 9 | F 5 |
| S 6 | 22 41 | 18 19 | 4 40 | 21 50 | 0n 3 | 24 13 | 0 46 | 21 29 | 0 14 | 22 12 | 0 24 | 20 7 | 0 41 | 9 51 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 49 | 12 28 | 17 40 | 10 54 | 0 9 | S 6 |
| S 7 | 22 47 | 19 25 | 4 1 | 22 20 | 0 14 | 24 16 | 0 48 | 21 37 | 0 14 | 22 10 | 0 24 | 20 5 | 0 41 | 9 52 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 52 | 12 29 | 17 39 | 10 55 | 0 9 | S 7 |
| M 8 | 22 53 | 19 10 | 3 6 | 22 48 | 0 24 | 24 18 | 0 50 | 21 44 | 0 15 | 22 9 | 0 24 | 20 4 | 0 41 | 9 53 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 55 | 12 30 | 17 39 | 10 56 | 0 8 | M 8 |
| T 9 | 22 58 | 17 37 | 1 59 | 23 13 | 0 34 | 24 20 | 0 52 | 21 52 | 0 15 | 22 7 | 0 24 | 20 2 | 0 42 | 9 54 | 0 33 | 12 51 | 0 33 | 22 29 | 0 11 | 12 56 | 12 31 | 17 38 | 10 57 | 0 8 | T 9 |
| W10 | 23 3 | 14 55 | 0 44 | 23 36 | 0 44 | 24 21 | 0 54 | 21 59 | 0 16 | 22 5 | 0 24 | 20 1 | 0 42 | 9 55 | 0 33 | 12 52 | 0 33 | 22 29 | 0 10 | 12 57 | 12 32 | 17 37 | 10 58 | 0 8 | W10 |
| T 11 | 23 7 | 11 21 | 0n32 | 23 57 | 0 53 | 24 21 | 0 56 | 22 6 | 0 17 | 22 3 | 0 24 | 19 59 | 0 42 | 9 56 | 0 33 | 12 52 | 0 33 | 22 29 | 0 10 | 12 57 | 12 33 | 17 36 | 10 59 | 0 8 | T 11 |
| F 12 | 23 11 | 7 13 | 1 45 | 24 15 | 1 2 | 24 21 | 0 58 | 22 13 | 0 17 | 22 1 | 0 24 | 19 58 | 0 42 | 9 56 | 0 33 | 12 52 | 0 33 | 22 29 | 0 10 | 12 57 | 12 34 | 17 36 | 11 0 | 0 8 | F 12 |
| S 13 | 23 15 | 2 47 | 2 50 | 24 31 | 1 10 | 24 19 | 1 0 | 22 20 | 0 18 | 21 59 | 0 24 | 19 57 | 0 42 | 9 57 | 0 33 | 12 52 | 0 33 | 22 28 | 0 10 | 12 57 | 12 35 | 17 35 | 11 1 | 0 8 | S 13 |
| S 14 | 23 18 | 1s41 | 3 44 | 24 43 | 1 18 | 24 17 | 1 2 | 22 27 | 0 19 | 21 57 | 0 25 | 19 55 | 0 42 | 9 58 | 0 33 | 12 52 | 0 33 | 22 28 | 0 10 | 12 57 | 12 37 | 17 34 | 11 1 | 0 8 | S 14 |
| M15 | 23 21 | 6 0 | 4 25 | 24 53 | 1 25 | 24 15 | 1 4 | 22 33 | 0 19 | 21 55 | 0 25 | 19 54 | 0 42 | 9 59 | 0 33 | 12 52 | 0 33 | 22 28 | 0 10 | 12 59 | 12 38 | 17 34 | 11 2 | 0 8 | M15 |
| T 16 | 23 23 | 9 56 | 4 52 | 25 0 | 1 31 | 24 11 | 1 6 | 22 39 | 0 20 | 21 53 | 0 25 | 19 52 | 0 42 | 10 0 | 0 33 | 12 53 | 0 33 | 22 28 | 0 10 | 13 1 | 12 39 | 17 33 | 11 3 | 0 8 | T 16 |
| W17 | 23 25 | 13 22 | 5 4 | 25 4 | 1 37 | 24 7 | 1 7 | 22 45 | 0 20 | 21 51 | 0 25 | 19 50 | 0 42 | 10 0 | 0 33 | 12 53 | 0 33 | 22 28 | 0 10 | 13 4 | 12 40 | 17 32 | 11 4 | 0 8 | W17 |
| T 18 | 23 27 | 16 8 | 5 1 | 25 5 | 1 42 | 24 2 | 1 9 | 22 51 | 0 21 | 21 49 | 0 25 | 19 49 | 0 42 | 10 1 | 0 33 | 12 53 | 0 33 | 22 28 | 0 10 | 13 7 | 12 41 | 17 31 | 11 5 | 0 8 | T 18 |
| F 19 | 23 28 | 18 7 | 4 43 | 25 4 | 1 46 | 23 57 | 1 11 | 22 56 | 0 22 | 21 47 | 0 25 | 19 47 | 0 42 | 10 2 | 0 33 | 12 53 | 0 33 | 22 28 | 0 10 | 13 10 | 12 42 | 17 31 | 11 5 | 0 8 | F 19 |
| S 20 | 23 28 | 19 15 | 4 13 | 25 0 | 1 49 | 23 51 | 1 12 | 23 1 | 0 22 | 21 44 | 0 25 | 19 46 | 0 42 | 10 3 | 0 33 | 12 54 | 0 33 | 22 28 | 0 10 | 13 14 | 12 43 | 17 30 | 11 6 | 0 8 | S 20 |
| S 21 | 23 29 | 19 30 | 3 32 | 24 53 | 1 52 | 23 44 | 1 14 | 23 6 | 0 23 | 21 42 | 0 25 | 19 44 | 0 42 | 10 3 | 0 33 | 12 54 | 0 33 | 22 28 | 0 10 | 13 17 | 12 44 | 17 29 | 11 7 | 0 7 | S 21 |
| M22 | 23 29 | 18 52 | 2 41 | 24 44 | 1 54 | 23 36 | 1 16 | 23 11 | 0 23 | 21 40 | 0 25 | 19 43 | 0 42 | 10 4 | 0 33 | 12 54 | 0 33 | 22 27 | 0 10 | 13 19 | 12 45 | 17 29 | 11 8 | 0 7 | M22 |
| T 23 | 23 28 | 17 24 | 1 44 | 24 33 | 1 55 | 23 28 | 1 17 | 23 16 | 0 24 | 21 38 | 0 25 | 19 41 | 0 42 | 10 5 | 0 33 | 12 54 | 0 33 | 22 27 | 0 10 | 13 20 | 12 46 | 17 28 | 11 8 | 0 7 | T 23 |
| W24 | 23 27 | 15 12 | 0 43 | 24 20 | 1 55 | 23 19 | 1 19 | 23 20 | 0 25 | 21 36 | 0 25 | 19 39 | 0 42 | 10 5 | 0 33 | 12 55 | 0 33 | 22 27 | 0 10 | 13 21 | 12 47 | 17 27 | 11 9 | 0 7 | W24 |
| T 25 | 23 26 | 12 22 | 0s21 | 24 5 | 1 55 | 23 9 | 1 20 | 23 25 | 0 25 | 21 33 | 0 25 | 19 38 | 0 42 | 10 6 | 0 33 | 12 55 | 0 33 | 22 27 | 0 10 | 13 21 | 12 48 | 17 26 | 11 10 | 0 7 | T 25 |
| F 26 | 23 24 | 9 1 | 1 24 | 23 47 | 1 54 | 22 59 | 1 21 | 23 29 | 0 26 | 21 31 | 0 25 | 19 36 | 0 42 | 10 7 | 0 33 | 12 55 | 0 33 | 22 27 | 0 9 | 13 21 | 12 50 | 17 26 | 11 10 | 0 7 | F 26 |
| S 27 | 23 22 | 5 15 | 2 24 | 23 28 | 1 53 | 22 48 | 1 23 | 23 32 | 0 26 | 21 29 | 0 25 | 19 34 | 0 42 | 10 7 | 0 33 | 12 55 | 0 33 | 22 27 | 0 9 | 13 20 | 12 51 | 17 25 | 11 11 | 0 7 | S 27 |
| S 28 | 23 19 | 1 13 | 3 19 | 23 8 | 1 51 | 22 36 | 1 24 | 23 36 | 0 27 | 21 27 | 0 25 | 19 33 | 0 42 | 10 8 | 0 34 | 12 56 | 0 33 | 22 27 | 0 9 | 13 20 | 12 52 | 17 24 | 11 12 | 0 7 | S 28 |
| M29 | 23 16 | 2n59 | 4 6 | 22 46 | 1 48 | 22 23 | 1 25 | 23 39 | 0 28 | 21 24 | 0 25 | 19 31 | 0 42 | 10 8 | 0 34 | 12 56 | 0 33 | 22 27 | 0 9 | 13 20 | 12 53 | 17 23 | 11 12 | 0 7 | M29 |
| T 30 | 23n13 | 7n10 | 4s42 | 22n22 | 1n44 | 22n10 | 1n26 | 23n42 | 0n28 | 21n22 | 0n26 | 19n29 | 0n42 | 10n 9 | 0s34 | 12s56 | 0s33 | 22n27 | 0s 9 | 13n21 | 12n54 | 17s23 | 11n13 | 0n 7 | T 30 |

Julian Day Number = 2335549.5, Delta T = 22.31 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'26, Lahiri = 19°25'26Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

## JULY 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 37 29 | 9♋18'13 | 13♉43 | 29♋21 | 28♋21 | 22♊42 | 26♋25 | 6♌ 8 | 27♈43 | 27°R19 | 15♋22 | 24°R31 | 25♌52 | 4♒22 | 28♈57 | W 1 |
| T 2 | 18 41 26 | 10°15'26 | 27°40 | 1♌ 0 | 29°34 | 23°23 | 26°38 | 6°15 | 27°45 | 27♒18 | 15°23 | 24♌25 | 25°49 | 4°28 | 28°59 | T 2 |
| F 3 | 18 45 23 | 11°12'39 | 12♊ 4 | 2°37 | 0♌47 | 24° 4 | 26°51 | 6°22 | 27°46 | 27°17 | 15°25 | 24°19 | 25°46 | 4°35 | 29° 0 | F 3 |
| S 4 | 18 49 19 | 12° 9'52 | 26°50 | 4°12 | 2° 1 | 24°44 | 27° 4 | 6°29 | 27°48 | 27°16 | 15°27 | 24°12 | 25°43 | 4°42 | 29° 2 | S 4 |
| S 5 | 18 53 16 | 13° 7'05 | 11♋52 | 5°45 | 3°14 | 25°25 | 27°17 | 6°36 | 27°49 | 27°15 | 15°28 | 24° 7 | 25°40 | 4°48 | 29° 4 | S 5 |
| M 6 | 18 57 12 | 14° 4'19 | 27° 0 | 7°16 | 4°27 | 26° 6 | 27°30 | 6°44 | 27°51 | 27°14 | 15°30 | 24° 3 | 25°36 | 4°55 | 29° 5 | M 6 |
| T 7 | 19 1 9 | 15° 1'33 | 12♌ 5 | 8°45 | 5°40 | 26°46 | 27°43 | 6°51 | 27°52 | 27°13 | 15°31 | 24° 1 | 25°33 | 5° 2 | 29° 7 | T 7 |
| W 8 | 19 5 5 | 15°58'46 | 26°58 | 10°11 | 6°53 | 27°26 | 27°57 | 6°59 | 27°53 | 27°11 | 15°33 | 24°D 0 | 25°30 | 5° 8 | 29° 8 | W 8 |
| T 9 | 19 9 2 | 16°56'00 | 11♍33 | 11°36 | 8° 7 | 28° 7 | 28°10 | 7° 6 | 27°55 | 27°10 | 15°34 | 24° 1 | 25°27 | 5°15 | 29°10 | T 9 |
| F 10 | 19 12 58 | 17°53'14 | 25°46 | 12°58 | 9°20 | 28°47 | 28°23 | 7°13 | 27°56 | 27° 9 | 15°36 | 24° 2 | 25°24 | 5°22 | 29°11 | F 10 |
| S 11 | 19 16 55 | 18°50'28 | 9♎35 | 14°18 | 10°33 | 29°27 | 28°36 | 7°21 | 27°57 | 27° 8 | 15°38 | 24° 4 | 25°21 | 5°28 | 29°12 | S 11 |
| S 12 | 19 20 52 | 19°47'42 | 23° 2 | 15°35 | 11°46 | 0♋ 8 | 28°49 | 7°28 | 27°58 | 27° 7 | 15°39 | 24°R 4 | 25°17 | 5°35 | 29°13 | S 12 |
| M13 | 19 24 48 | 20°44'56 | 6♏ 8 | 16°51 | 12°59 | 0°48 | 29° 3 | 7°36 | 27°59 | 27° 6 | 15°41 | 24° 3 | 25°14 | 5°42 | 29°15 | M13 |
| T 14 | 19 28 45 | 21°42'11 | 18°56 | 18° 4 | 14°12 | 1°28 | 29°16 | 7°43 | 28° 0 | 27° 4 | 15°42 | 24° 0 | 25°11 | 5°48 | 29°16 | T 14 |
| W15 | 19 32 41 | 22°39'25 | 1♐29 | 19°14 | 15°26 | 2° 8 | 29°29 | 7°51 | 28° 1 | 27° 3 | 15°44 | 23°56 | 25° 8 | 5°55 | 29°17 | W15 |
| T 16 | 19 36 38 | 23°36'40 | 13°49 | 20°22 | 16°39 | 2°48 | 29°42 | 7°58 | 28° 2 | 27° 2 | 15°45 | 23°52 | 25° 5 | 6° 1 | 29°18 | T 16 |
| F 17 | 19 40 34 | 24°33'56 | 25°58 | 21°27 | 17°52 | 3°28 | 29°56 | 8° 6 | 28° 3 | 27° 0 | 15°47 | 23°47 | 25° 2 | 6° 8 | 29°19 | F 17 |
| S 18 | 19 44 31 | 25°31'11 | 7♑59 | 22°29 | 19° 5 | 4° 8 | 0♌ 9 | 8°14 | 28° 3 | 26°59 | 15°49 | 23°42 | 24°58 | 6°15 | 29°20 | S 18 |
| S 19 | 19 48 27 | 26°28'28 | 19°54 | 23°29 | 20°18 | 4°48 | 0°22 | 8°21 | 28° 4 | 26°58 | 15°50 | 23°38 | 24°55 | 6°21 | 29°20 | S 19 |
| M20 | 19 52 24 | 27°25'45 | 1♒44 | 24°25 | 21°31 | 5°28 | 0°35 | 8°29 | 28° 5 | 26°56 | 15°52 | 23°35 | 24°52 | 6°28 | 29°21 | M20 |
| T 21 | 19 56 21 | 28°23'02 | 13°32 | 25°19 | 22°44 | 6° 8 | 0°49 | 8°36 | 28° 6 | 26°55 | 15°53 | 23°33 | 24°49 | 6°35 | 29°22 | T 21 |
| W22 | 20 0 17 | 29°20'21 | 25°20 | 26° 9 | 23°57 | 6°47 | 1° 2 | 8°44 | 28° 6 | 26°54 | 15°55 | 23°D33 | 24°46 | 6°41 | 29°23 | W22 |
| T 23 | 20 4 14 | 0♌17'40 | 7♓11 | 26°56 | 25°10 | 7°27 | 1°15 | 8°52 | 28° 7 | 26°52 | 15°56 | 23°34 | 24°42 | 6°48 | 29°23 | T 23 |
| F 24 | 20 8 10 | 1°15'00 | 19° 8 | 27°40 | 26°23 | 8° 7 | 1°29 | 8°59 | 28° 7 | 26°51 | 15°58 | 23°35 | 24°39 | 6°55 | 29°24 | F 24 |
| S 25 | 20 12 7 | 2°12'21 | 1♈14 | 28°20 | 27°36 | 8°46 | 1°42 | 9° 7 | 28° 8 | 26°49 | 15°59 | 23°37 | 24°36 | 7° 1 | 29°24 | S 25 |
| S 26 | 20 16 3 | 3° 9'43 | 13°33 | 28°56 | 28°48 | 9°26 | 1°55 | 9°15 | 28° 8 | 26°48 | 16° 1 | 23°38 | 24°33 | 7° 8 | 29°25 | S 26 |
| M27 | 20 20 0 | 4° 7'06 | 26° 9 | 29°28 | 0♍ 1 | 10° 6 | 2° 8 | 9°22 | 28° 8 | 26°46 | 16° 2 | 23°39 | 24°30 | 7°15 | 29°25 | M27 |
| T 28 | 20 23 56 | 5° 4'31 | 9♉ 7 | 29°56 | 1°14 | 10°45 | 2°22 | 9°30 | 28° 9 | 26°45 | 16° 4 | 23°R39 | 24°27 | 7°21 | 29°26 | T 28 |
| W29 | 20 27 53 | 6° 1'56 | 22°30 | 0♍20 | 2°27 | 11°25 | 2°35 | 9°38 | 28° 9 | 26°43 | 16° 5 | 23°38 | 24°23 | 7°28 | 29°26 | W29 |
| T 30 | 20 31 50 | 6°59'23 | 6♊19 | 0°39 | 3°40 | 12° 4 | 2°48 | 9°46 | 28° 9 | 26°42 | 16° 7 | 23°37 | 24°20 | 7°35 | 29°26 | T 30 |
| F 31 | 20 35 46 | 7♌56'51 | 20♊35 | 0♍53 | 4♍53 | 12♋43 | 3♌ 1 | 9♌53 | 28♈ 9 | 26♒40 | 16♋ 8 | 23♌35 | 24♌17 | 7♒41 | 29♈26 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 23n 9 | 11n 9 | 5s 4 | 21n57 | 1n40 | 21n57 | 1n27 | 23n45 | 0n29 | 21n19 | 0n26 | 19n27 | 0n42 | 10n10 | 0s34 | 12s57 | 0s33 | 22n26 | 0s 9 | 13n22 | 12n55 | 17s22 | 11n13 | 0n 7 | W 1 |
| T 2 | 23 5 | 14 39 | 5 9 | 21 31 | 1 36 | 21 43 | 1 28 | 23 48 | 0 29 | 21 17 | 0 26 | 19 26 | 0 43 | 10 10 | 0 34 | 12 57 | 0 33 | 22 26 | 0 9 | 13 24 | 12 56 | 17 21 | 11 14 | 0 7 | T 2 |
| F 3 | 23 0 | 17 24 | 4 55 | 21 4 | 1 30 | 21 28 | 1 29 | 23 51 | 0 30 | 21 15 | 0 26 | 19 24 | 0 43 | 10 11 | 0 34 | 12 58 | 0 33 | 22 26 | 0 9 | 13 26 | 12 57 | 17 20 | 11 15 | 0 7 | F 3 |
| S 4 | 22 55 | 19 5 | 4 21 | 20 37 | 1 25 | 21 12 | 1 30 | 23 53 | 0 31 | 21 12 | 0 26 | 19 22 | 0 43 | 10 11 | 0 34 | 12 58 | 0 33 | 22 26 | 0 9 | 13 28 | 12 58 | 17 19 | 11 15 | 0 7 | S 4 |
| S 5 | 22 50 | 19 29 | 3 29 | 20 8 | 1 19 | 20 56 | 1 31 | 23 55 | 0 31 | 21 10 | 0 26 | 19 20 | 0 43 | 10 12 | 0 34 | 12 58 | 0 33 | 22 26 | 0 9 | 13 30 | 12 59 | 17 19 | 11 16 | 0 6 | S 5 |
| M 6 | 22 44 | 18 29 | 2 22 | 19 39 | 1 12 | 20 39 | 1 31 | 23 57 | 0 32 | 21 7 | 0 26 | 19 19 | 0 43 | 10 12 | 0 34 | 12 59 | 0 33 | 22 26 | 0 9 | 13 32 | 13 0 | 17 18 | 11 16 | 0 6 | M 6 |
| T 7 | 22 38 | 16 10 | 1 4 | 19 9 | 1 5 | 20 22 | 1 32 | 23 59 | 0 32 | 21 5 | 0 26 | 19 17 | 0 43 | 10 12 | 0 34 | 12 59 | 0 34 | 22 26 | 0 9 | 13 32 | 13 1 | 17 17 | 11 16 | 0 6 | T 7 |
| W 8 | 22 31 | 12 48 | 0n16 | 18 38 | 0 57 | 20 4 | 1 33 | 24 0 | 0 33 | 21 2 | 0 26 | 19 15 | 0 43 | 10 13 | 0 34 | 12 59 | 0 34 | 22 26 | 0 9 | 13 33 | 13 2 | 17 16 | 11 17 | 0 6 | W 8 |
| T 9 | 22 24 | 8 42 | 1 34 | 18 7 | 0 49 | 19 46 | 1 33 | 24 1 | 0 33 | 20 59 | 0 26 | 19 13 | 0 43 | 10 13 | 0 34 | 13 0 | 0 34 | 22 25 | 0 9 | 13 32 | 13 4 | 17 16 | 11 17 | 0 6 | T 9 |
| F 10 | 22 17 | 4 12 | 2 45 | 17 36 | 0 40 | 19 27 | 1 34 | 24 2 | 0 34 | 20 57 | 0 26 | 19 11 | 0 43 | 10 14 | 0 34 | 13 0 | 0 34 | 22 25 | 0 9 | 13 32 | 13 5 | 17 15 | 11 18 | 0 6 | F 10 |
| S 11 | 22 9 | 0s23 | 3 43 | 17 4 | 0 31 | 19 8 | 1 34 | 24 3 | 0 35 | 20 54 | 0 26 | 19 9 | 0 43 | 10 14 | 0 34 | 13 1 | 0 34 | 22 25 | 0 9 | 13 31 | 13 6 | 17 14 | 11 18 | 0 6 | S 11 |
| S 12 | 22 1 | 4 49 | 4 28 | 16 32 | 0 22 | 18 48 | 1 34 | 24 4 | 0 35 | 20 52 | 0 26 | 19 8 | 0 43 | 10 14 | 0 34 | 13 1 | 0 34 | 22 25 | 0 8 | 13 31 | 13 7 | 17 13 | 11 18 | 0 6 | S 12 |
| M13 | 21 52 | 8 54 | 4 58 | 16 1 | 0 12 | 18 27 | 1 35 | 24 4 | 0 36 | 20 49 | 0 27 | 19 6 | 0 43 | 10 15 | 0 34 | 13 2 | 0 34 | 22 25 | 0 8 | 13 32 | 13 8 | 17 12 | 11 19 | 0 6 | M13 |
| T 14 | 21 44 | 12 29 | 5 11 | 15 29 | 0 2 | 18 6 | 1 35 | 24 5 | 0 36 | 20 46 | 0 27 | 19 4 | 0 43 | 10 15 | 0 34 | 13 2 | 0 34 | 22 25 | 0 8 | 13 33 | 13 9 | 17 12 | 11 19 | 0 6 | T 14 |
| W15 | 21 34 | 15 26 | 5 10 | 14 57 | 0s 8 | 17 45 | 1 35 | 24 5 | 0 37 | 20 44 | 0 27 | 19 2 | 0 43 | 10 15 | 0 34 | 13 3 | 0 34 | 22 25 | 0 8 | 13 34 | 13 10 | 17 11 | 11 19 | 0 6 | W15 |
| T 16 | 21 25 | 17 38 | 4 54 | 14 26 | 0 19 | 17 23 | 1 35 | 24 4 | 0 38 | 20 41 | 0 27 | 19 0 | 0 43 | 10 16 | 0 34 | 13 3 | 0 34 | 22 25 | 0 8 | 13 35 | 13 11 | 17 10 | 11 20 | 0 6 | T 16 |
| F 17 | 21 15 | 19 0 | 4 25 | 13 54 | 0 30 | 17 0 | 1 35 | 24 4 | 0 38 | 20 38 | 0 27 | 18 58 | 0 43 | 10 16 | 0 34 | 13 3 | 0 34 | 22 24 | 0 8 | 13 37 | 13 12 | 17 9 | 11 20 | 0 6 | F 17 |
| S 18 | 21 4 | 19 30 | 3 45 | 13 24 | 0 41 | 16 38 | 1 35 | 24 3 | 0 39 | 20 35 | 0 27 | 18 56 | 0 43 | 10 16 | 0 34 | 13 4 | 0 34 | 22 24 | 0 8 | 13 39 | 13 13 | 17 8 | 11 20 | 0 5 | S 18 |
| S 19 | 20 54 | 19 7 | 2 55 | 12 53 | 0 53 | 16 14 | 1 34 | 24 3 | 0 39 | 20 33 | 0 27 | 18 54 | 0 44 | 10 17 | 0 34 | 13 4 | 0 34 | 22 24 | 0 8 | 13 40 | 13 14 | 17 7 | 11 21 | 0 5 | S 19 |
| M20 | 20 43 | 17 54 | 1 57 | 12 23 | 1 4 | 15 51 | 1 34 | 24 2 | 0 40 | 20 30 | 0 27 | 18 52 | 0 44 | 10 17 | 0 34 | 13 5 | 0 34 | 22 24 | 0 8 | 13 41 | 13 15 | 17 7 | 11 21 | 0 5 | M20 |
| T 21 | 20 31 | 15 55 | 0 55 | 11 54 | 1 16 | 15 26 | 1 34 | 24 1 | 0 40 | 20 27 | 0 27 | 18 51 | 0 44 | 10 17 | 0 34 | 13 5 | 0 34 | 22 24 | 0 8 | 13 41 | 13 16 | 17 6 | 11 21 | 0 5 | T 21 |
| W22 | 20 19 | 13 15 | 0s10 | 11 26 | 1 29 | 15 2 | 1 33 | 23 59 | 0 41 | 20 24 | 0 27 | 18 49 | 0 44 | 10 17 | 0 34 | 13 6 | 0 34 | 22 24 | 0 8 | 13 42 | 13 17 | 17 5 | 11 21 | 0 5 | W22 |
| T 23 | 20 7 | 10 2 | 1 15 | 10 58 | 1 41 | 14 37 | 1 33 | 23 58 | 0 42 | 20 21 | 0 27 | 18 47 | 0 44 | 10 17 | 0 34 | 13 6 | 0 34 | 22 24 | 0 8 | 13 41 | 13 18 | 17 4 | 11 21 | 0 5 | T 23 |
| F 24 | 19 55 | 6 24 | 2 17 | 10 32 | 1 53 | 14 12 | 1 32 | 23 56 | 0 42 | 20 19 | 0 27 | 18 45 | 0 44 | 10 18 | 0 34 | 13 7 | 0 34 | 22 24 | 0 8 | 13 41 | 13 20 | 17 3 | 11 21 | 0 5 | F 24 |
| S 25 | 19 42 | 2 28 | 3 13 | 10 6 | 2 6 | 13 46 | 1 32 | 23 54 | 0 43 | 20 16 | 0 27 | 18 43 | 0 44 | 10 18 | 0 34 | 13 7 | 0 34 | 22 24 | 0 8 | 13 40 | 13 21 | 17 2 | 11 21 | 0 5 | S 25 |
| S 26 | 19 29 | 1n38 | 4 2 | 9 42 | 2 19 | 13 20 | 1 31 | 23 52 | 0 43 | 20 13 | 0 28 | 18 41 | 0 44 | 10 18 | 0 34 | 13 8 | 0 34 | 22 23 | 0 8 | 13 40 | 13 22 | 17 2 | 11 22 | 0 5 | S 26 |
| M27 | 19 16 | 5 45 | 4 41 | 9 19 | 2 31 | 12 53 | 1 30 | 23 49 | 0 44 | 20 10 | 0 28 | 18 39 | 0 44 | 10 18 | 0 34 | 13 8 | 0 34 | 22 23 | 0 8 | 13 40 | 13 23 | 17 1 | 11 22 | 0 5 | M27 |
| T 28 | 19 2 | 9 43 | 5 6 | 8 57 | 2 44 | 12 27 | 1 29 | 23 47 | 0 44 | 20 7 | 0 28 | 18 37 | 0 44 | 10 18 | 0 34 | 13 9 | 0 34 | 22 23 | 0 8 | 13 40 | 13 24 | 17 0 | 11 22 | 0 5 | T 28 |
| W29 | 18 48 | 13 19 | 5 16 | 8 38 | 2 56 | 12 0 | 1 29 | 23 44 | 0 45 | 20 4 | 0 28 | 18 35 | 0 44 | 10 18 | 0 34 | 13 10 | 0 34 | 22 23 | 0 7 | 13 40 | 13 25 | 16 59 | 11 22 | 0 5 | W29 |
| T 30 | 18 33 | 16 20 | 5 9 | 8 19 | 3 8 | 11 32 | 1 28 | 23 41 | 0 45 | 20 1 | 0 28 | 18 33 | 0 44 | 10 18 | 0 34 | 13 10 | 0 34 | 22 23 | 0 7 | 13 40 | 13 26 | 16 58 | 11 22 | 0 5 | T 30 |
| F 31 | 18n19 | 18n27 | 4s42 | 8n 3 | 3s20 | 11n 5 | 1n26 | 23n38 | 0n46 | 19n58 | 0n28 | 18n31 | 0n44 | 10n18 | 0s34 | 13s11 | 0s34 | 22n23 | 0s 7 | 13n41 | 13n27 | 16s57 | 11n22 | 0n 4 | F 31 |

Julian Day Number = 2335579.5, Delta T = 22.26 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'30, Lahiri = 19°25'30Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## AUGUST 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 39 43 | 8♌54'21 | 5♋15 | 1♍ 2 | 6♍ 6 | 13♋23 | 3♌15 | 10♌ 1 | 28♈10 | 26°R39 | 16♋10 | 23°R33 | 24♌14 | 7♒48 | 29♈27 | S 1 |
| S 2 | 20 43 39 | 9°51'52 | 20°13 | 1°R 7 | 7°18 | 14° 2 | 3°28 | 10° 9 | 28°10 | 26♒37 | 16°11 | 23♌32 | 24°11 | 7°55 | 29°27 | S 2 |
| M 3 | 20 47 36 | 10°49'23 | 5♌23 | 1° 6 | 8°31 | 14°41 | 3°41 | 10°16 | 28°R10 | 26°36 | 16°13 | 23°31 | 24° 8 | 8° 1 | 29°R27 | M 3 |
| T 4 | 20 51 32 | 11°46'56 | 20°34 | 1° 0 | 9°44 | 15°20 | 3°54 | 10°24 | 28°10 | 26°34 | 16°14 | 23°D30 | 24° 4 | 8° 8 | 29°27 | T 4 |
| W 5 | 20 55 29 | 12°44'30 | 5♍38 | 0°48 | 10°56 | 16° 0 | 4° 8 | 10°32 | 28°10 | 26°33 | 16°16 | 23°30 | 24° 1 | 8°15 | 29°26 | W 5 |
| T 6 | 20 59 25 | 13°42'05 | 20°25 | 0°31 | 12° 9 | 16°39 | 4°21 | 10°40 | 28° 9 | 26°31 | 16°17 | 23°31 | 23°58 | 8°21 | 29°26 | T 6 |
| F 7 | 21 3 22 | 14°39'41 | 4♎51 | 0° 9 | 13°22 | 17°18 | 4°34 | 10°47 | 28° 9 | 26°29 | 16°19 | 23°32 | 23°55 | 8°28 | 29°26 | F 7 |
| S 8 | 21 7 19 | 15°37'18 | 18°51 | 29♌41 | 14°34 | 17°57 | 4°47 | 10°55 | 28° 9 | 26°28 | 16°20 | 23°32 | 23°52 | 8°34 | 29°26 | S 8 |
| S 9 | 21 11 15 | 16°34'55 | 2♏25 | 29° 8 | 15°47 | 18°36 | 5° 0 | 11° 3 | 28° 9 | 26°26 | 16°21 | 23°33 | 23°48 | 8°41 | 29°25 | S 9 |
| M10 | 21 15 12 | 17°32'34 | 15°33 | 28°31 | 17° 0 | 19°15 | 5°13 | 11°10 | 28° 8 | 26°25 | 16°23 | 23°R33 | 23°45 | 8°48 | 29°25 | M10 |
| T 11 | 21 19 8 | 18°30'14 | 28°20 | 27°49 | 18°12 | 19°54 | 5°27 | 11°18 | 28° 8 | 26°23 | 16°24 | 23°33 | 23°42 | 8°54 | 29°25 | T 11 |
| W12 | 21 23 5 | 19°27'55 | 10♐48 | 27° 4 | 19°25 | 20°33 | 5°40 | 11°26 | 28° 8 | 26°21 | 16°26 | 23°33 | 23°39 | 9° 1 | 29°24 | W12 |
| T 13 | 21 27 1 | 20°25'36 | 23° 0 | 26°15 | 20°37 | 21°11 | 5°53 | 11°33 | 28° 7 | 26°20 | 16°27 | 23°32 | 23°36 | 9° 8 | 29°24 | T 13 |
| F 14 | 21 30 58 | 21°23'20 | 5♑ 2 | 25°24 | 21°50 | 21°50 | 6° 6 | 11°41 | 28° 7 | 26°18 | 16°28 | 23°32 | 23°33 | 9°14 | 29°23 | F 14 |
| S 15 | 21 34 54 | 22°21'04 | 16°56 | 24°32 | 23° 2 | 22°29 | 6°19 | 11°49 | 28° 6 | 26°16 | 16°30 | 23°32 | 23°29 | 9°21 | 29°22 | S 15 |
| S 16 | 21 38 51 | 23°18'49 | 28°45 | 23°40 | 24°14 | 23° 7 | 6°32 | 11°56 | 28° 5 | 26°15 | 16°31 | 23°D32 | 23°26 | 9°28 | 29°22 | S 16 |
| M17 | 21 42 48 | 24°16'36 | 10♒33 | 22°48 | 25°27 | 23°46 | 6°45 | 12° 4 | 28° 5 | 26°13 | 16°32 | 23°32 | 23°23 | 9°34 | 29°21 | M17 |
| T 18 | 21 46 44 | 25°14'24 | 22°22 | 21°58 | 26°39 | 24°25 | 6°58 | 12°11 | 28° 4 | 26°12 | 16°33 | 23°R32 | 23°20 | 9°41 | 29°20 | T 18 |
| W19 | 21 50 41 | 26°12'14 | 4♓15 | 21°11 | 27°51 | 25° 3 | 7°10 | 12°19 | 28° 3 | 26°10 | 16°35 | 23°32 | 23°17 | 9°48 | 29°19 | W19 |
| T 20 | 21 54 37 | 27°10'05 | 16°13 | 20°28 | 29° 4 | 25°42 | 7°23 | 12°27 | 28° 2 | 26° 8 | 16°36 | 23°32 | 23°14 | 9°54 | 29°18 | T 20 |
| F 21 | 21 58 34 | 28° 7'57 | 28°18 | 19°49 | 0♎16 | 26°20 | 7°36 | 12°34 | 28° 2 | 26° 7 | 16°37 | 23°31 | 23°10 | 10° 1 | 29°17 | F 21 |
| S 22 | 22 2 30 | 29° 5'51 | 10♈33 | 19°16 | 1°28 | 26°59 | 7°49 | 12°42 | 28° 1 | 26° 5 | 16°39 | 23°31 | 23° 7 | 10° 8 | 29°16 | S 22 |
| S 23 | 22 6 27 | 0♍ 3'47 | 23° 1 | 18°50 | 2°40 | 27°37 | 8° 2 | 12°49 | 28° 0 | 26° 3 | 16°40 | 23°30 | 23° 4 | 10°14 | 29°15 | S 23 |
| M24 | 22 10 23 | 1° 1'45 | 5♉43 | 18°31 | 3°52 | 28°15 | 8°14 | 12°57 | 27°59 | 26° 2 | 16°41 | 23°29 | 23° 1 | 10°21 | 29°14 | M24 |
| T 25 | 22 14 20 | 1°59'45 | 18°43 | 18°19 | 5° 5 | 28°54 | 8°27 | 13° 4 | 27°58 | 26° 0 | 16°42 | 23°28 | 22°58 | 10°27 | 29°13 | T 25 |
| W26 | 22 18 16 | 2°57'47 | 2♊ 2 | 18°D15 | 6°17 | 29°32 | 8°40 | 13°12 | 27°57 | 25°58 | 16°43 | 23°D28 | 22°54 | 10°34 | 29°11 | W26 |
| T 27 | 22 22 13 | 3°55'50 | 15°43 | 18°20 | 7°29 | 0♌10 | 8°52 | 13°19 | 27°56 | 25°57 | 16°44 | 23°28 | 22°51 | 10°41 | 29°10 | T 27 |
| F 28 | 22 26 10 | 4°53'56 | 29°46 | 18°33 | 8°41 | 0°48 | 9° 5 | 13°26 | 27°54 | 25°55 | 16°46 | 23°29 | 22°48 | 10°47 | 29° 9 | F 28 |
| S 29 | 22 30 6 | 5°52'04 | 14♋11 | 18°55 | 9°53 | 1°26 | 9°18 | 13°34 | 27°53 | 25°54 | 16°47 | 23°30 | 22°45 | 10°54 | 29° 7 | S 29 |
| S 30 | 22 34 3 | 6°50'13 | 28°53 | 19°25 | 11° 5 | 2° 4 | 9°30 | 13°41 | 27°52 | 25°52 | 16°48 | 23°31 | 22°42 | 11° 1 | 29° 6 | S 30 |
| M31 | 22 37 59 | 7♍48'25 | 13♌50 | 20♌ 3 | 12♎17 | 2♌43 | 9♌42 | 13♌48 | 27♈51 | 25♒50 | 16♋49 | 23♌32 | 22♌39 | 11♒ 7 | 29♈ 4 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 4 | 19n26 | 3s57 | 7n49 | 3s32 | 10n37 | 1n25 | 23n35 | 0n47 | 19n55 | 0n28 | 18n29 | 0n45 | 10n18 | 0s34 | 13s11 | 0s34 | 22n23 | 0s 7 | 13n41 | 13n28 | 16s56 | 11n22 | 0n 4 |
| S 2 | 17 48 | 19 5 | 2 54 | 7 37 | 3 43 | 10 9 | 1 24 | 23 31 | 0 47 | 19 52 | 0 28 | 18 27 | 0 45 | 10 18 | 0 34 | 13 12 | 0 34 | 22 23 | 0 7 | 13 42 | 13 29 | 16 55 | 11 22 | 0 4 |
| M 3 | 17 33 | 17 21 | 1 39 | 7 27 | 3 54 | 9 40 | 1 23 | 23 27 | 0 48 | 19 49 | 0 28 | 18 25 | 0 45 | 10 18 | 0 34 | 13 12 | 0 34 | 22 22 | 0 7 | 13 42 | 13 30 | 16 55 | 11 22 | 0 4 |
| T 4 | 17 17 | 14 24 | 0 16 | 7 20 | 4 4 | 9 11 | 1 21 | 23 24 | 0 48 | 19 46 | 0 28 | 18 23 | 0 45 | 10 18 | 0 34 | 13 13 | 0 34 | 22 22 | 0 7 | 13 42 | 13 31 | 16 54 | 11 21 | 0 4 |
| W 5 | 17 1 | 10 30 | 1n 7 | 7 15 | 4 13 | 8 42 | 1 20 | 23 19 | 0 49 | 19 43 | 0 28 | 18 21 | 0 45 | 10 18 | 0 34 | 13 13 | 0 34 | 22 22 | 0 7 | 13 42 | 13 32 | 16 53 | 11 21 | 0 4 |
| T 6 | 16 44 | 6 0 | 2 24 | 7 13 | 4 22 | 8 13 | 1 18 | 23 15 | 0 49 | 19 40 | 0 29 | 18 19 | 0 45 | 10 18 | 0 34 | 13 14 | 0 34 | 22 22 | 0 7 | 13 42 | 13 33 | 16 52 | 11 21 | 0 4 |
| F 7 | 16 28 | 1 17 | 3 30 | 7 14 | 4 29 | 7 44 | 1 17 | 23 11 | 0 50 | 19 37 | 0 29 | 18 17 | 0 45 | 10 18 | 0 34 | 13 14 | 0 34 | 22 22 | 0 7 | 13 42 | 13 34 | 16 51 | 11 21 | 0 4 |
| S 8 | 16 11 | 3s22 | 4 21 | 7 18 | 4 35 | 7 14 | 1 15 | 23 6 | 0 50 | 19 34 | 0 29 | 18 15 | 0 45 | 10 18 | 0 34 | 13 15 | 0 34 | 22 22 | 0 7 | 13 42 | 13 35 | 16 50 | 11 21 | 0 4 |
| S 9 | 15 54 | 7 41 | 4 56 | 7 25 | 4 40 | 6 45 | 1 14 | 23 2 | 0 51 | 19 31 | 0 29 | 18 13 | 0 45 | 10 18 | 0 34 | 13 16 | 0 34 | 22 22 | 0 7 | 13 42 | 13 36 | 16 49 | 11 21 | 0 4 |
| M10 | 15 36 | 11 30 | 5 15 | 7 34 | 4 44 | 6 15 | 1 12 | 22 57 | 0 51 | 19 28 | 0 29 | 18 11 | 0 45 | 10 18 | 0 34 | 13 16 | 0 34 | 22 22 | 0 7 | 13 41 | 13 37 | 16 48 | 11 21 | 0 4 |
| T 11 | 15 18 | 14 40 | 5 17 | 7 47 | 4 46 | 5 45 | 1 10 | 22 52 | 0 52 | 19 25 | 0 29 | 18 9 | 0 45 | 10 17 | 0 34 | 13 17 | 0 34 | 22 22 | 0 7 | 13 41 | 13 39 | 16 47 | 11 20 | 0 4 |
| W12 | 15 0 | 17 5 | 5 4 | 8 2 | 4 46 | 5 14 | 1 8 | 22 46 | 0 53 | 19 21 | 0 29 | 18 7 | 0 45 | 10 17 | 0 35 | 13 17 | 0 34 | 22 21 | 0 7 | 13 42 | 13 40 | 16 46 | 11 20 | 0 4 |
| T 13 | 14 42 | 18 41 | 4 37 | 8 20 | 4 44 | 4 44 | 1 6 | 22 41 | 0 53 | 19 18 | 0 29 | 18 4 | 0 46 | 10 17 | 0 35 | 13 18 | 0 34 | 22 21 | 0 7 | 13 42 | 13 41 | 16 46 | 11 20 | 0 3 |
| F 14 | 14 24 | 19 25 | 3 58 | 8 40 | 4 40 | 4 13 | 1 4 | 22 35 | 0 54 | 19 15 | 0 29 | 18 2 | 0 46 | 10 17 | 0 35 | 13 18 | 0 34 | 22 21 | 0 6 | 13 42 | 13 42 | 16 45 | 11 19 | 0 3 |
| S 15 | 14 5 | 19 16 | 3 10 | 9 2 | 4 35 | 3 43 | 1 2 | 22 29 | 0 54 | 19 12 | 0 29 | 18 0 | 0 46 | 10 17 | 0 35 | 13 19 | 0 34 | 22 21 | 0 6 | 13 42 | 13 43 | 16 44 | 11 19 | 0 3 |
| S 16 | 13 46 | 18 16 | 2 13 | 9 26 | 4 28 | 3 12 | 1 0 | 22 24 | 0 55 | 19 9 | 0 30 | 17 58 | 0 46 | 10 16 | 0 35 | 13 20 | 0 34 | 22 21 | 0 6 | 13 42 | 13 44 | 16 43 | 11 19 | 0 3 |
| M17 | 13 27 | 16 28 | 1 12 | 9 52 | 4 19 | 2 41 | 0 57 | 22 17 | 0 55 | 19 6 | 0 30 | 17 56 | 0 46 | 10 16 | 0 35 | 13 20 | 0 34 | 22 21 | 0 6 | 13 42 | 13 45 | 16 42 | 11 18 | 0 3 |
| T 18 | 13 8 | 13 59 | 0 6 | 10 18 | 4 8 | 2 10 | 0 55 | 22 11 | 0 56 | 19 3 | 0 30 | 17 54 | 0 46 | 10 16 | 0 35 | 13 21 | 0 34 | 22 21 | 0 6 | 13 42 | 13 46 | 16 41 | 11 18 | 0 3 |
| W19 | 12 48 | 10 53 | 0s59 | 10 45 | 3 55 | 1 39 | 0 53 | 22 5 | 0 56 | 18 59 | 0 30 | 17 52 | 0 46 | 10 16 | 0 35 | 13 21 | 0 34 | 22 21 | 0 6 | 13 42 | 13 47 | 16 40 | 11 18 | 0 3 |
| T 20 | 12 28 | 7 20 | 2 3 | 11 12 | 3 41 | 1 8 | 0 50 | 21 58 | 0 57 | 18 56 | 0 30 | 17 50 | 0 46 | 10 15 | 0 35 | 13 22 | 0 34 | 22 21 | 0 6 | 13 42 | 13 48 | 16 39 | 11 17 | 0 3 |
| F 21 | 12 9 | 3 27 | 3 2 | 11 38 | 3 26 | 0 37 | 0 48 | 21 51 | 0 57 | 18 53 | 0 30 | 17 48 | 0 46 | 10 15 | 0 35 | 13 22 | 0 34 | 22 21 | 0 6 | 13 42 | 13 49 | 16 38 | 11 17 | 0 3 |
| S 22 | 11 48 | 0n37 | 3 53 | 12 4 | 3 9 | 0 6 | 0 45 | 21 45 | 0 58 | 18 50 | 0 30 | 17 46 | 0 46 | 10 15 | 0 35 | 13 23 | 0 34 | 22 20 | 0 6 | 13 42 | 13 50 | 16 37 | 11 16 | 0 3 |
| S 23 | 11 28 | 4 43 | 4 34 | 12 29 | 2 52 | 0s25 | 0 42 | 21 38 | 0 58 | 18 47 | 0 30 | 17 44 | 0 47 | 10 14 | 0 35 | 13 24 | 0 34 | 22 20 | 0 6 | 13 43 | 13 51 | 16 36 | 11 16 | 0 3 |
| M24 | 11 8 | 8 42 | 5 2 | 12 52 | 2 34 | 0 56 | 0 40 | 21 30 | 0 59 | 18 44 | 0 30 | 17 42 | 0 47 | 10 14 | 0 35 | 13 24 | 0 34 | 22 20 | 0 6 | 13 43 | 13 52 | 16 35 | 11 15 | 0 3 |
| T 25 | 10 47 | 12 21 | 5 16 | 13 13 | 2 15 | 1 27 | 0 37 | 21 23 | 0 59 | 18 40 | 0 31 | 17 40 | 0 47 | 10 14 | 0 35 | 13 25 | 0 34 | 22 20 | 0 6 | 13 43 | 13 53 | 16 34 | 11 15 | 0 2 |
| W26 | 10 26 | 15 28 | 5 14 | 13 32 | 1 57 | 1 58 | 0 34 | 21 16 | 1 0 | 18 37 | 0 31 | 17 38 | 0 47 | 10 13 | 0 35 | 13 25 | 0 34 | 22 20 | 0 6 | 13 43 | 13 54 | 16 33 | 11 14 | 0 2 |
| T 27 | 10 5 | 17 50 | 4 54 | 13 48 | 1 38 | 2 30 | 0 31 | 21 8 | 1 0 | 18 34 | 0 31 | 17 36 | 0 47 | 10 13 | 0 35 | 13 26 | 0 34 | 22 20 | 0 6 | 13 43 | 13 55 | 16 32 | 11 14 | 0 2 |
| F 28 | 9 44 | 19 13 | 4 16 | 14 2 | 1 20 | 3 1 | 0 28 | 21 0 | 1 1 | 18 31 | 0 31 | 17 34 | 0 47 | 10 12 | 0 35 | 13 26 | 0 34 | 22 20 | 0 6 | 13 43 | 13 56 | 16 31 | 11 13 | 0 2 |
| S 29 | 9 22 | 19 23 | 3 21 | 14 12 | 1 2 | 3 32 | 0 25 | 20 52 | 1 2 | 18 27 | 0 31 | 17 32 | 0 47 | 10 12 | 0 35 | 13 27 | 0 34 | 22 20 | 0 6 | 13 43 | 13 57 | 16 30 | 11 13 | 0 2 |
| S 30 | 9 1 | 18 15 | 2 12 | 14 20 | 0 44 | 4 3 | 0 22 | 20 44 | 1 2 | 18 24 | 0 31 | 17 30 | 0 47 | 10 11 | 0 35 | 13 27 | 0 34 | 22 20 | 0 6 | 13 42 | 13 58 | 16 29 | 11 12 | 0 2 |
| M31 | 8n39 | 15n51 | 0s54 | 14n24 | 0s27 | 4s34 | 0n19 | 20n36 | 1n 3 | 18n21 | 0n31 | 17n28 | 0n47 | 10n11 | 0s35 | 13s28 | 0s34 | 22n20 | 0s 5 | 13n42 | 13n59 | 16s28 | 11n12 | 0n 2 |

Julian Day Number = 2335610.5, Delta T = 22.21 sec
Ecliptic obliquity = 23°28'42, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'34, Lahiri = 19°25'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## SEPTEMBER 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 41 56 | 8♍46'38 | 28♌52 | 20♌50 | 13♎28 | 3♌21 | 9♌55 | 13♌56 | 27°R49 | 25°R49 | 16♋50 | 23°R32 | 22♌35 | 11♒14 | 29°R 3 | T 1 |
| W 2 | 22 45 52 | 9°44'53 | 13♍52 | 21°44 | 14°40 | 3°58 | 10° 7 | 14° 3 | 27♈48 | 25♒47 | 16°51 | 23♌31 | 22°32 | 11°21 | 29♈ 1 | W 2 |
| T 3 | 22 49 49 | 10°43'10 | 28°41 | 22°45 | 15°52 | 4°36 | 10°20 | 14°10 | 27°47 | 25°46 | 16°52 | 23°29 | 22°29 | 11°27 | 28°59 | T 3 |
| F 4 | 22 53 45 | 11°41'29 | 13♎12 | 23°54 | 17° 4 | 5°14 | 10°32 | 14°17 | 27°45 | 25°44 | 16°53 | 23°27 | 22°26 | 11°34 | 28°58 | F 4 |
| S 5 | 22 57 42 | 12°39'49 | 27°20 | 25° 9 | 18°16 | 5°52 | 10°44 | 14°24 | 27°44 | 25°42 | 16°54 | 23°25 | 22°23 | 11°41 | 28°56 | S 5 |
| S 6 | 23 1 39 | 13°38'11 | 11♏ 1 | 26°29 | 19°27 | 6°30 | 10°56 | 14°31 | 27°42 | 25°41 | 16°55 | 23°22 | 22°19 | 11°47 | 28°54 | S 6 |
| M 7 | 23 5 35 | 14°36'34 | 24°15 | 27°55 | 20°39 | 7° 8 | 11° 8 | 14°39 | 27°41 | 25°39 | 16°56 | 23°20 | 22°16 | 11°54 | 28°52 | M 7 |
| T 8 | 23 9 32 | 15°34'59 | 7♐ 5 | 29°26 | 21°51 | 7°45 | 11°20 | 14°46 | 27°39 | 25°38 | 16°57 | 23°19 | 22°13 | 12° 1 | 28°50 | T 8 |
| W 9 | 23 13 28 | 16°33'26 | 19°33 | 1♑ 0 | 23° 2 | 8°23 | 11°32 | 14°53 | 27°37 | 25°36 | 16°58 | 23°D19 | 22°10 | 12° 7 | 28°48 | W 9 |
| T 10 | 23 17 25 | 17°31'54 | 1♑44 | 2°39 | 24°14 | 9° 0 | 11°44 | 14°59 | 27°36 | 25°35 | 16°59 | 23°19 | 22° 7 | 12°14 | 28°46 | T 10 |
| F 11 | 23 21 21 | 18°30'24 | 13°43 | 4°20 | 25°25 | 9°38 | 11°56 | 15° 6 | 27°34 | 25°33 | 17° 0 | 23°21 | 22° 4 | 12°20 | 28°44 | F 11 |
| S 12 | 23 25 18 | 19°28'55 | 25°34 | 6° 4 | 26°36 | 10°15 | 12° 8 | 15°13 | 27°32 | 25°32 | 17° 0 | 23°23 | 22° 0 | 12°27 | 28°42 | S 12 |
| S 13 | 23 29 14 | 20°27'29 | 7♒22 | 7°50 | 27°48 | 10°53 | 12°19 | 15°20 | 27°30 | 25°30 | 17° 1 | 23°24 | 21°57 | 12°34 | 28°40 | S 13 |
| M14 | 23 33 11 | 21°26'04 | 19°10 | 9°38 | 28°59 | 11°30 | 12°31 | 15°27 | 27°28 | 25°29 | 17° 2 | 23°R25 | 21°54 | 12°40 | 28°38 | M14 |
| T 15 | 23 37 8 | 22°24'41 | 1♓ 3 | 11°27 | 0♏10 | 12° 8 | 12°43 | 15°33 | 27°27 | 25°28 | 17° 3 | 23°25 | 21°51 | 12°47 | 28°36 | T 15 |
| W16 | 23 41 4 | 23°23'19 | 13° 2 | 13°17 | 1°22 | 12°45 | 12°54 | 15°40 | 27°25 | 25°26 | 17° 4 | 23°23 | 21°48 | 12°54 | 28°34 | W16 |
| T 17 | 23 45 1 | 24°22'00 | 25°11 | 15° 7 | 2°33 | 13°22 | 13° 6 | 15°47 | 27°23 | 25°25 | 17° 4 | 23°20 | 21°45 | 13° 0 | 28°31 | T 17 |
| F 18 | 23 48 57 | 25°20'42 | 7♈31 | 16°58 | 3°44 | 14° 0 | 13°17 | 15°53 | 27°21 | 25°23 | 17° 5 | 23°16 | 21°41 | 13° 7 | 28°29 | F 18 |
| S 19 | 23 52 54 | 26°19'27 | 20° 2 | 18°49 | 4°55 | 14°37 | 13°28 | 16° 0 | 27°19 | 25°22 | 17° 6 | 23°10 | 21°38 | 13°14 | 28°27 | S 19 |
| S 20 | 23 56 50 | 27°18'13 | 2♉46 | 20°40 | 6° 6 | 15°14 | 13°40 | 16° 6 | 27°17 | 25°21 | 17° 6 | 23° 5 | 21°35 | 13°20 | 28°24 | S 20 |
| M21 | 0 0 47 | 28°17'02 | 15°43 | 22°30 | 7°17 | 15°51 | 13°51 | 16°13 | 27°15 | 25°19 | 17° 7 | 22°59 | 21°32 | 13°27 | 28°22 | M21 |
| T 22 | 0 4 43 | 29°15'53 | 28°53 | 24°21 | 8°28 | 16°28 | 14° 2 | 16°19 | 27°13 | 25°18 | 17° 8 | 22°54 | 21°29 | 13°34 | 28°19 | T 22 |
| W23 | 0 8 40 | 0♎14'47 | 12♊17 | 26°10 | 9°39 | 17° 5 | 14°13 | 16°25 | 27°11 | 25°17 | 17° 8 | 22°51 | 21°25 | 13°40 | 28°17 | W23 |
| T 24 | 0 12 37 | 1°13'42 | 25°57 | 27°59 | 10°49 | 17°42 | 14°24 | 16°32 | 27° 9 | 25°15 | 17° 9 | 22°D50 | 21°22 | 13°47 | 28°14 | T 24 |
| F 25 | 0 16 33 | 2°12'41 | 9♋51 | 29°48 | 12° 0 | 18°19 | 14°35 | 16°38 | 27° 6 | 25°14 | 17°10 | 22°50 | 21°19 | 13°54 | 28°12 | F 25 |
| S 26 | 0 20 30 | 3°11'41 | 23°59 | 1♎35 | 13°11 | 18°56 | 14°45 | 16°44 | 27° 4 | 25°13 | 17°10 | 22°51 | 21°16 | 14° 0 | 28° 9 | S 26 |
| S 27 | 0 24 26 | 4°10'44 | 8♌22 | 3°22 | 14°22 | 19°33 | 14°56 | 16°50 | 27° 2 | 25°12 | 17°11 | 22°52 | 21°13 | 14° 7 | 28° 7 | S 27 |
| M28 | 0 28 23 | 5° 9'49 | 22°56 | 5° 8 | 15°32 | 20° 9 | 15° 7 | 16°56 | 27° 0 | 25°11 | 17°11 | 22°R53 | 21°10 | 14°13 | 28° 4 | M28 |
| T 29 | 0 32 19 | 6° 8'56 | 7♍36 | 6°54 | 16°43 | 20°46 | 15°17 | 17° 2 | 26°58 | 25°10 | 17°12 | 22°52 | 21° 6 | 14°20 | 28° 1 | T 29 |
| W30 | 0 36 16 | 7♎ 8'06 | 22♍18 | 8♎38 | 17♏53 | 21♌23 | 15♌28 | 17♌ 8 | 26♈55 | 25♒ 8 | 17♋12 | 22♌49 | 21♌ 3 | 14♒27 | 27♈59 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n18 | 12n21 | 0n30 | 14n24 | 0s11 | 5s 4 | 0n16 | 20n28 | 1n 3 | 18n18 | 0n31 | 17n26 | 0n48 | 10n10 | 0s35 | 13s29 | 0s34 | 22n20 | 0s 5 | 13n42 | 14n 0 | 16s27 | 11n11 | 0n 2 |
| W 2 | 7 56 | 8 3 | 1 50 | 14 21 | 0n 5 | 5 35 | 0 13 | 20 19 | 1 4 | 18 15 | 0 32 | 17 24 | 0 48 | 10 10 | 0 35 | 13 29 | 0 34 | 22 20 | 0 5 | 13 42 | 14 1 | 16 26 | 11 10 | 0 2 |
| T 3 | 7 34 | 3 19 | 3 3 | 14 15 | 0 19 | 6 6 | 0 10 | 20 11 | 1 4 | 18 11 | 0 32 | 17 22 | 0 48 | 10 9 | 0 35 | 13 30 | 0 34 | 22 19 | 0 5 | 13 43 | 14 2 | 16 25 | 11 10 | 0 2 |
| F 4 | 7 11 | 1s31 | 4 1 | 14 5 | 0 32 | 6 36 | 0 7 | 20 2 | 1 5 | 18 8 | 0 32 | 17 20 | 0 48 | 10 9 | 0 35 | 13 30 | 0 34 | 22 19 | 0 5 | 13 43 | 14 4 | 16 24 | 11 9 | 0 2 |
| S 5 | 6 49 | 6 7 | 4 44 | 13 52 | 0 45 | 7 7 | 0 4 | 19 53 | 1 5 | 18 5 | 0 32 | 17 18 | 0 48 | 10 8 | 0 35 | 13 31 | 0 34 | 22 19 | 0 5 | 13 44 | 14 5 | 16 23 | 11 8 | 0 2 |
| S 6 | 6 27 | 10 16 | 5 8 | 13 35 | 0 56 | 7 37 | 0 0 | 19 44 | 1 6 | 18 2 | 0 32 | 17 16 | 0 48 | 10 8 | 0 35 | 13 31 | 0 34 | 22 19 | 0 5 | 13 45 | 14 6 | 16 22 | 11 7 | 0 1 |
| M 7 | 6 4 | 13 46 | 5 16 | 13 15 | 1 6 | 8 7 | 0s 3 | 19 35 | 1 6 | 17 59 | 0 32 | 17 14 | 0 48 | 10 7 | 0 35 | 13 32 | 0 34 | 22 19 | 0 5 | 13 46 | 14 7 | 16 21 | 11 7 | 0 1 |
| T 8 | 5 42 | 16 29 | 5 7 | 12 52 | 1 15 | 8 37 | 0 6 | 19 26 | 1 7 | 17 55 | 0 32 | 17 12 | 0 48 | 10 7 | 0 35 | 13 32 | 0 34 | 22 19 | 0 5 | 13 46 | 14 8 | 16 20 | 11 6 | 0 1 |
| W 9 | 5 19 | 18 22 | 4 43 | 12 26 | 1 23 | 9 7 | 0 10 | 19 17 | 1 7 | 17 52 | 0 32 | 17 10 | 0 48 | 10 6 | 0 35 | 13 33 | 0 34 | 22 19 | 0 5 | 13 46 | 14 9 | 16 19 | 11 5 | 0 1 |
| T 10 | 4 56 | 19 20 | 4 8 | 11 57 | 1 30 | 9 37 | 0 13 | 19 7 | 1 8 | 17 49 | 0 33 | 17 8 | 0 49 | 10 5 | 0 35 | 13 33 | 0 34 | 22 19 | 0 5 | 13 46 | 14 10 | 16 18 | 11 4 | 0 1 |
| F 11 | 4 33 | 19 26 | 3 22 | 11 25 | 1 36 | 10 6 | 0 17 | 18 58 | 1 8 | 17 46 | 0 33 | 17 6 | 0 49 | 10 5 | 0 35 | 13 34 | 0 34 | 22 19 | 0 5 | 13 46 | 14 11 | 16 17 | 11 4 | 0 1 |
| S 12 | 4 10 | 18 39 | 2 27 | 10 51 | 1 41 | 10 35 | 0 20 | 18 48 | 1 9 | 17 43 | 0 33 | 17 5 | 0 49 | 10 4 | 0 35 | 13 34 | 0 34 | 22 19 | 0 5 | 13 45 | 14 12 | 16 16 | 11 3 | 0 1 |
| S 13 | 3 47 | 17 3 | 1 27 | 10 15 | 1 44 | 11 4 | 0 23 | 18 38 | 1 9 | 17 40 | 0 33 | 17 3 | 0 49 | 10 3 | 0 35 | 13 35 | 0 34 | 22 19 | 0 5 | 13 44 | 14 13 | 16 15 | 11 2 | 0 1 |
| M14 | 3 24 | 14 44 | 0 23 | 9 37 | 1 47 | 11 33 | 0 27 | 18 29 | 1 10 | 17 36 | 0 33 | 17 1 | 0 49 | 10 3 | 0 35 | 13 35 | 0 34 | 22 19 | 0 5 | 13 44 | 14 14 | 16 14 | 11 1 | 0 1 |
| T 15 | 3 1 | 11 46 | 0s42 | 8 58 | 1 49 | 12 2 | 0 31 | 18 19 | 1 10 | 17 33 | 0 33 | 16 59 | 0 49 | 10 2 | 0 35 | 13 36 | 0 34 | 22 19 | 0 5 | 13 44 | 14 15 | 16 13 | 11 0 | 0 1 |
| W16 | 2 38 | 8 18 | 1 46 | 8 17 | 1 50 | 12 30 | 0 34 | 18 9 | 1 11 | 17 30 | 0 33 | 16 57 | 0 49 | 10 1 | 0 35 | 13 36 | 0 34 | 22 19 | 0 5 | 13 45 | 14 16 | 16 12 | 10 59 | 0 1 |
| T 17 | 2 14 | 4 27 | 2 45 | 7 34 | 1 51 | 12 58 | 0 38 | 17 58 | 1 11 | 17 27 | 0 34 | 16 55 | 0 50 | 10 1 | 0 35 | 13 37 | 0 34 | 22 19 | 0 4 | 13 46 | 14 17 | 16 11 | 10 58 | 0 1 |
| F 18 | 1 51 | 0 21 | 3 38 | 6 51 | 1 50 | 13 26 | 0 41 | 17 48 | 1 12 | 17 24 | 0 34 | 16 53 | 0 50 | 10 0 | 0 35 | 13 37 | 0 34 | 22 19 | 0 4 | 13 47 | 14 18 | 16 10 | 10 58 | 0 0 |
| S 19 | 1 28 | 3n49 | 4 21 | 6 6 | 1 49 | 13 53 | 0 45 | 17 38 | 1 12 | 17 21 | 0 34 | 16 52 | 0 50 | 9 59 | 0 35 | 13 38 | 0 34 | 22 19 | 0 4 | 13 49 | 14 19 | 16 9 | 10 57 | 0 0 |
| S 20 | 1 4 | 7 52 | 4 52 | 5 21 | 1 47 | 14 20 | 0 48 | 17 27 | 1 13 | 17 18 | 0 34 | 16 50 | 0 50 | 9 59 | 0 35 | 13 38 | 0 34 | 22 19 | 0 4 | 13 51 | 14 20 | 16 8 | 10 56 | 0 0 |
| M21 | 0 41 | 11 38 | 5 9 | 4 35 | 1 45 | 14 47 | 0 52 | 17 17 | 1 13 | 17 15 | 0 34 | 16 48 | 0 50 | 9 58 | 0 35 | 13 39 | 0 34 | 22 19 | 0 4 | 13 53 | 14 21 | 16 7 | 10 55 | 0 0 |
| T 22 | 0 18 | 14 54 | 5 10 | 3 49 | 1 42 | 15 13 | 0 56 | 17 6 | 1 14 | 17 12 | 0 34 | 16 46 | 0 50 | 9 57 | 0 35 | 13 39 | 0 34 | 22 19 | 0 4 | 13 54 | 14 22 | 16 6 | 10 54 | 0 0 |
| W23 | 0s 6 | 17 27 | 4 54 | 3 2 | 1 39 | 15 40 | 0 59 | 16 55 | 1 14 | 17 8 | 0 34 | 16 44 | 0 50 | 9 56 | 0 35 | 13 39 | 0 34 | 22 19 | 0 4 | 13 55 | 14 23 | 16 5 | 10 53 | 0s 0 |
| T 24 | 0 29 | 19 4 | 4 21 | 2 16 | 1 35 | 16 5 | 1 3 | 16 44 | 1 15 | 17 5 | 0 35 | 16 43 | 0 50 | 9 56 | 0 35 | 13 40 | 0 34 | 22 19 | 0 4 | 13 56 | 14 24 | 16 4 | 10 52 | 0 0 |
| F 25 | 0 53 | 19 35 | 3 33 | 1 29 | 1 31 | 16 31 | 1 6 | 16 34 | 1 15 | 17 2 | 0 35 | 16 41 | 0 51 | 9 55 | 0 35 | 13 40 | 0 34 | 22 19 | 0 4 | 13 56 | 14 25 | 16 3 | 10 51 | 0 0 |
| S 26 | 1 16 | 18 52 | 2 31 | 0 42 | 1 27 | 16 56 | 1 10 | 16 23 | 1 16 | 16 59 | 0 35 | 16 39 | 0 51 | 9 54 | 0 35 | 13 41 | 0 34 | 22 19 | 0 4 | 13 55 | 14 26 | 16 2 | 10 50 | 0 0 |
| S 27 | 1 40 | 16 57 | 1 18 | 0s 5 | 1 22 | 17 21 | 1 14 | 16 11 | 1 16 | 16 56 | 0 35 | 16 38 | 0 51 | 9 53 | 0 35 | 13 41 | 0 34 | 22 19 | 0 4 | 13 55 | 14 27 | 16 1 | 10 49 | 0 0 |
| M28 | 2 3 | 13 54 | 0n 0 | 0 52 | 1 17 | 17 45 | 1 17 | 16 0 | 1 17 | 16 53 | 0 35 | 16 36 | 0 51 | 9 52 | 0 35 | 13 41 | 0 34 | 22 19 | 0 4 | 13 55 | 14 28 | 16 0 | 10 48 | 0 0 |
| T 29 | 2 27 | 9 57 | 1 19 | 1 39 | 1 11 | 18 9 | 1 21 | 15 49 | 1 17 | 16 51 | 0 35 | 16 34 | 0 51 | 9 52 | 0 35 | 13 42 | 0 34 | 22 19 | 0 4 | 13 55 | 14 29 | 15 58 | 10 47 | 0 1 |
| W30 | 2s50 | 5n24 | 2n33 | 2s25 | 1n 6 | 18s32 | 1s24 | 15n38 | 1n18 | 16n48 | 0n36 | 16n33 | 0n51 | 9n51 | 0s35 | 13s42 | 0s34 | 22n19 | 0s 4 | 13n56 | 14n30 | 15s57 | 10n46 | 0s 1 |

Julian Day Number = 2335641.5, Delta T = 22.17 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'39, Lahiri = 19°25'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## OCTOBER 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 40 12 | 8♎ 7'17 | 6♎55 | 10♎22 | 19♏ 3 | 21♌59 | 15♌38 | 17♌14 | 26°R53 | 25°R 7 | 17♋12 | 22°R44 | 21♌ 0 | 14♒33 | 27°R56 | T 1 |
| F 2 | 0 44 9 | 9° 6'31 | 21°18 | 12° 5 | 20°14 | 22°36 | 15°48 | 17°20 | 26♈51 | 25♒ 6 | 17°13 | 22♌38 | 20°57 | 14°40 | 27♈53 | F 2 |
| S 3 | 0 48 5 | 10° 5'46 | 5♏23 | 13°47 | 21°24 | 23°12 | 15°58 | 17°25 | 26°48 | 25° 5 | 17°13 | 22°30 | 20°54 | 14°47 | 27°51 | S 3 |
| S 4 | 0 52 2 | 11° 5'04 | 19° 5 | 15°29 | 22°34 | 23°49 | 16° 8 | 17°31 | 26°46 | 25° 4 | 17°14 | 22°22 | 20°50 | 14°53 | 27°48 | S 4 |
| M 5 | 0 55 59 | 12° 4'24 | 2♐22 | 17° 9 | 23°44 | 24°25 | 16°18 | 17°36 | 26°44 | 25° 3 | 17°14 | 22°15 | 20°47 | 15° 0 | 27°45 | M 5 |
| T 6 | 0 59 55 | 13° 3'45 | 15°14 | 18°49 | 24°54 | 25° 2 | 16°28 | 17°42 | 26°41 | 25° 2 | 17°14 | 22° 9 | 20°44 | 15° 7 | 27°42 | T 6 |
| W 7 | 1 3 52 | 14° 3'08 | 27°45 | 20°28 | 26° 4 | 25°38 | 16°38 | 17°47 | 26°39 | 25° 1 | 17°14 | 22° 5 | 20°41 | 15°13 | 27°39 | W 7 |
| T 8 | 1 7 48 | 15° 2'33 | 9♑57 | 22° 7 | 27°14 | 26°14 | 16°48 | 17°53 | 26°37 | 25° 0 | 17°15 | 22°D 4 | 20°38 | 15°20 | 27°37 | T 8 |
| F 9 | 1 11 45 | 16° 2'00 | 21°55 | 23°44 | 28°24 | 26°50 | 16°57 | 17°58 | 26°34 | 24°59 | 17°15 | 22° 4 | 20°35 | 15°27 | 27°34 | F 9 |
| S 10 | 1 15 41 | 17° 1'28 | 3♒46 | 25°21 | 29°34 | 27°26 | 17° 7 | 18° 3 | 26°32 | 24°59 | 17°15 | 22° 5 | 20°31 | 15°33 | 27°31 | S 10 |
| S 11 | 1 19 38 | 18° 0'59 | 15°33 | 26°58 | 0♐43 | 28° 2 | 17°16 | 18° 8 | 26°29 | 24°58 | 17°15 | 22° 6 | 20°28 | 15°40 | 27°28 | S 11 |
| M12 | 1 23 34 | 19° 0'31 | 27°23 | 28°33 | 1°53 | 28°39 | 17°25 | 18°13 | 26°27 | 24°57 | 17°15 | 22°R 6 | 20°25 | 15°46 | 27°25 | M12 |
| T 13 | 1 27 31 | 20° 0'05 | 9♓20 | 0♏ 8 | 3° 2 | 29°14 | 17°34 | 18°18 | 26°25 | 24°56 | 17°16 | 22° 4 | 20°22 | 15°53 | 27°22 | T 13 |
| W14 | 1 31 28 | 20°59'40 | 21°27 | 1°43 | 4°12 | 29°50 | 17°43 | 18°23 | 26°22 | 24°55 | 17°16 | 22° 0 | 20°19 | 16° 0 | 27°19 | W14 |
| T 15 | 1 35 24 | 21°59'18 | 3♈48 | 3°16 | 5°21 | 0♍26 | 17°52 | 18°28 | 26°20 | 24°55 | 17°16 | 21°53 | 20°16 | 16° 6 | 27°16 | T 15 |
| F 16 | 1 39 21 | 22°58'57 | 16°24 | 4°49 | 6°30 | 1° 2 | 18° 1 | 18°33 | 26°17 | 24°54 | 17°16 | 21°45 | 20°12 | 16°13 | 27°13 | F 16 |
| S 17 | 1 43 17 | 23°58'39 | 29°15 | 6°22 | 7°39 | 1°38 | 18° 9 | 18°37 | 26°15 | 24°53 | 17°16 | 21°34 | 20° 9 | 16°20 | 27°10 | S 17 |
| S 18 | 1 47 14 | 24°58'22 | 12♉21 | 7°54 | 8°48 | 2°13 | 18°18 | 18°42 | 26°12 | 24°53 | 17°R16 | 21°23 | 20° 6 | 16°26 | 27° 7 | S 18 |
| M19 | 1 51 10 | 25°58'08 | 25°40 | 9°25 | 9°57 | 2°49 | 18°26 | 18°46 | 26°10 | 24°52 | 17°16 | 21°12 | 20° 3 | 16°33 | 27° 4 | M19 |
| T 20 | 1 55 7 | 26°57'56 | 9♊11 | 10°56 | 11° 5 | 3°25 | 18°34 | 18°51 | 26° 7 | 24°51 | 17°16 | 21° 2 | 20° 0 | 16°40 | 27° 2 | T 20 |
| W21 | 1 59 3 | 27°57'46 | 22°52 | 12°26 | 12°14 | 4° 0 | 18°43 | 18°55 | 26° 5 | 24°51 | 17°16 | 20°55 | 19°56 | 16°46 | 26°59 | W21 |
| T 22 | 2 3 0 | 28°57'38 | 6♋40 | 13°56 | 13°22 | 4°36 | 18°51 | 18°59 | 26° 2 | 24°50 | 17°16 | 20°51 | 19°53 | 16°53 | 26°56 | T 22 |
| F 23 | 2 6 57 | 29°57'33 | 20°36 | 15°25 | 14°31 | 5°11 | 18°58 | 19° 3 | 26° 0 | 24°50 | 17°16 | 20°49 | 19°50 | 17° 0 | 26°53 | F 23 |
| S 24 | 2 10 53 | 0♏57'29 | 4♌38 | 16°54 | 15°39 | 5°46 | 19° 6 | 19° 7 | 25°58 | 24°50 | 17°15 | 20°D49 | 19°47 | 17° 6 | 26°50 | S 24 |
| S 25 | 2 14 50 | 1°57'28 | 18°46 | 18°22 | 16°47 | 6°22 | 19°14 | 19°11 | 25°55 | 24°49 | 17°15 | 20°R49 | 19°44 | 17°13 | 26°47 | S 25 |
| M26 | 2 18 46 | 2°57'29 | 2♍59 | 19°49 | 17°55 | 6°57 | 19°21 | 19°15 | 25°53 | 24°49 | 17°15 | 20°48 | 19°41 | 17°20 | 26°44 | M26 |
| T 27 | 2 22 43 | 3°57'32 | 17°14 | 21°16 | 19° 3 | 7°32 | 19°29 | 19°19 | 25°50 | 24°48 | 17°15 | 20°46 | 19°37 | 17°26 | 26°41 | T 27 |
| W28 | 2 26 39 | 4°57'38 | 1♎30 | 22°42 | 20°11 | 8° 7 | 19°36 | 19°23 | 25°48 | 24°48 | 17°15 | 20°41 | 19°34 | 17°33 | 26°38 | W28 |
| T 29 | 2 30 36 | 5°57'45 | 15°42 | 24° 8 | 21°18 | 8°42 | 19°43 | 19°26 | 25°45 | 24°48 | 17°14 | 20°33 | 19°31 | 17°39 | 26°35 | T 29 |
| F 30 | 2 34 32 | 6°57'54 | 29°45 | 25°33 | 22°26 | 9°17 | 19°50 | 19°30 | 25°43 | 24°48 | 17°14 | 20°22 | 19°28 | 17°46 | 26°32 | F 30 |
| S 31 | 2 38 29 | 7♏58'06 | 13♏34 | 26♏57 | 23♐33 | 9♍52 | 19♌56 | 19♌33 | 25♈41 | 24♒47 | 17♋14 | 20♌10 | 19♌25 | 17♒53 | 26♈29 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s14 | 0n33 | 3n35 | 3s12 | 1n 0 | 18s55 | 1s28 | 15n26 | 1n18 | 16n45 | 0n36 | 16n31 | 0n52 | 9n50 | 0s35 | 13s43 | 0s34 | 22n19 | 0s 4 | 13n58 | 14n31 | 15s56 | 10n45 | 0s 1 |
| F 2 | 3 37 | 4s15 | 4 24 | 3 57 | 0 54 | 19 18 | 1 31 | 15 15 | 1 19 | 16 42 | 0 36 | 16 29 | 0 52 | 9 49 | 0 35 | 13 43 | 0 34 | 22 19 | 0 4 | 14 0 | 14 32 | 15 55 | 10 44 | 0 1 |
| S 3 | 4 0 | 8 42 | 4 54 | 4 43 | 0 48 | 19 40 | 1 35 | 15 3 | 1 19 | 16 39 | 0 36 | 16 28 | 0 52 | 9 48 | 0 35 | 13 43 | 0 34 | 22 19 | 0 3 | 14 2 | 14 33 | 15 54 | 10 43 | 0 1 |
| S 4 | 4 24 | 12 35 | 5 7 | 5 28 | 0 41 | 20 2 | 1 38 | 14 52 | 1 20 | 16 36 | 0 36 | 16 26 | 0 52 | 9 47 | 0 35 | 13 44 | 0 34 | 22 19 | 0 3 | 14 5 | 14 34 | 15 53 | 10 42 | 0 1 |
| M 5 | 4 47 | 15 43 | 5 3 | 6 13 | 0 35 | 20 23 | 1 42 | 14 40 | 1 20 | 16 33 | 0 36 | 16 25 | 0 52 | 9 47 | 0 35 | 13 44 | 0 34 | 22 19 | 0 3 | 14 7 | 14 35 | 15 52 | 10 40 | 0 1 |
| T 6 | 5 10 | 17 58 | 4 43 | 6 57 | 0 28 | 20 43 | 1 45 | 14 28 | 1 21 | 16 30 | 0 37 | 16 23 | 0 52 | 9 46 | 0 35 | 13 44 | 0 34 | 22 19 | 0 3 | 14 9 | 14 36 | 15 51 | 10 39 | 0 1 |
| W 7 | 5 33 | 19 17 | 4 11 | 7 40 | 0 22 | 21 3 | 1 48 | 14 16 | 1 21 | 16 28 | 0 37 | 16 22 | 0 52 | 9 45 | 0 35 | 13 45 | 0 34 | 22 19 | 0 3 | 14 10 | 14 37 | 15 50 | 10 38 | 0 1 |
| T 8 | 5 56 | 19 40 | 3 27 | 8 24 | 0 15 | 21 23 | 1 52 | 14 5 | 1 22 | 16 25 | 0 37 | 16 20 | 0 53 | 9 44 | 0 35 | 13 45 | 0 34 | 22 19 | 0 3 | 14 11 | 14 38 | 15 49 | 10 37 | 0 1 |
| F 9 | 6 19 | 19 8 | 2 35 | 9 6 | 0 8 | 21 42 | 1 55 | 13 53 | 1 22 | 16 22 | 0 37 | 16 19 | 0 53 | 9 43 | 0 35 | 13 45 | 0 34 | 22 19 | 0 3 | 14 11 | 14 39 | 15 47 | 10 36 | 0 1 |
| S 10 | 6 42 | 17 46 | 1 37 | 9 48 | 0 1 | 22 1 | 1 58 | 13 41 | 1 23 | 16 20 | 0 37 | 16 17 | 0 53 | 9 42 | 0 35 | 13 45 | 0 34 | 22 19 | 0 3 | 14 10 | 14 40 | 15 46 | 10 35 | 0 1 |
| S 11 | 7 5 | 15 38 | 0 35 | 10 29 | 0s 5 | 22 19 | 2 1 | 13 29 | 1 23 | 16 17 | 0 37 | 16 16 | 0 53 | 9 41 | 0 35 | 13 46 | 0 34 | 22 19 | 0 3 | 14 10 | 14 41 | 15 45 | 10 34 | 0 2 |
| M12 | 7 27 | 12 51 | 0s28 | 11 10 | 0 12 | 22 36 | 2 5 | 13 17 | 1 24 | 16 14 | 0 38 | 16 14 | 0 53 | 9 40 | 0 35 | 13 46 | 0 34 | 22 19 | 0 3 | 14 10 | 14 42 | 15 44 | 10 33 | 0 2 |
| T 13 | 7 50 | 9 29 | 1 31 | 11 50 | 0 19 | 22 53 | 2 8 | 13 4 | 1 24 | 16 12 | 0 38 | 16 13 | 0 53 | 9 40 | 0 35 | 13 46 | 0 34 | 22 19 | 0 3 | 14 11 | 14 43 | 15 43 | 10 32 | 0 2 |
| W14 | 8 12 | 5 42 | 2 31 | 12 30 | 0 26 | 23 10 | 2 11 | 12 52 | 1 25 | 16 9 | 0 38 | 16 12 | 0 54 | 9 39 | 0 35 | 13 47 | 0 34 | 22 19 | 0 3 | 14 12 | 14 44 | 15 42 | 10 30 | 0 2 |
| T 15 | 8 35 | 1 36 | 3 24 | 13 8 | 0 33 | 23 25 | 2 14 | 12 40 | 1 25 | 16 7 | 0 38 | 16 10 | 0 54 | 9 38 | 0 35 | 13 47 | 0 34 | 22 19 | 0 3 | 14 14 | 14 45 | 15 41 | 10 29 | 0 2 |
| F 16 | 8 57 | 2n38 | 4 8 | 13 46 | 0 40 | 23 41 | 2 17 | 12 28 | 1 26 | 16 4 | 0 38 | 16 9 | 0 54 | 9 37 | 0 35 | 13 47 | 0 34 | 22 19 | 0 3 | 14 17 | 14 46 | 15 40 | 10 28 | 0 2 |
| S 17 | 9 19 | 6 51 | 4 41 | 14 24 | 0 46 | 23 55 | 2 20 | 12 15 | 1 26 | 16 2 | 0 39 | 16 8 | 0 54 | 9 36 | 0 35 | 13 47 | 0 34 | 22 19 | 0 3 | 14 20 | 14 47 | 15 38 | 10 27 | 0 2 |
| S 18 | 9 41 | 10 49 | 5 0 | 15 0 | 0 53 | 24 9 | 2 23 | 12 3 | 1 27 | 15 59 | 0 39 | 16 6 | 0 54 | 9 35 | 0 35 | 13 47 | 0 34 | 22 19 | 0 3 | 14 24 | 14 48 | 15 37 | 10 26 | 0 2 |
| M19 | 10 3 | 14 19 | 5 2 | 15 36 | 1 0 | 24 22 | 2 25 | 11 51 | 1 27 | 15 57 | 0 39 | 16 5 | 0 54 | 9 34 | 0 35 | 13 48 | 0 34 | 22 19 | 0 2 | 14 27 | 14 49 | 15 36 | 10 25 | 0 2 |
| T 20 | 10 25 | 17 7 | 4 48 | 16 11 | 1 6 | 24 35 | 2 28 | 11 38 | 1 28 | 15 54 | 0 39 | 16 4 | 0 55 | 9 33 | 0 35 | 13 48 | 0 34 | 22 19 | 0 2 | 14 30 | 14 50 | 15 35 | 10 24 | 0 2 |
| W21 | 10 46 | 19 0 | 4 18 | 16 45 | 1 13 | 24 47 | 2 31 | 11 26 | 1 28 | 15 52 | 0 39 | 16 3 | 0 55 | 9 33 | 0 35 | 13 48 | 0 34 | 22 19 | 0 2 | 14 33 | 14 51 | 15 34 | 10 22 | 0 2 |
| T 22 | 11 7 | 19 47 | 3 32 | 17 18 | 1 19 | 24 59 | 2 33 | 11 13 | 1 29 | 15 50 | 0 40 | 16 2 | 0 55 | 9 32 | 0 35 | 13 48 | 0 34 | 22 19 | 0 2 | 14 34 | 14 52 | 15 33 | 10 21 | 0 3 |
| F 23 | 11 29 | 19 22 | 2 33 | 17 51 | 1 25 | 25 9 | 2 36 | 11 1 | 1 29 | 15 47 | 0 40 | 16 1 | 0 55 | 9 31 | 0 35 | 13 48 | 0 34 | 22 20 | 0 2 | 14 35 | 14 53 | 15 31 | 10 20 | 0 3 |
| S 24 | 11 50 | 17 46 | 1 25 | 18 22 | 1 31 | 25 19 | 2 38 | 10 48 | 1 30 | 15 45 | 0 40 | 15 59 | 0 55 | 9 30 | 0 35 | 13 48 | 0 34 | 22 20 | 0 2 | 14 35 | 14 54 | 15 30 | 10 19 | 0 3 |
| S 25 | 12 10 | 15 3 | 0 11 | 18 53 | 1 37 | 25 29 | 2 40 | 10 36 | 1 30 | 15 43 | 0 40 | 15 58 | 0 56 | 9 29 | 0 35 | 13 49 | 0 34 | 22 20 | 0 2 | 14 35 | 14 55 | 15 29 | 10 18 | 0 3 |
| M26 | 12 31 | 11 26 | 1n 4 | 19 22 | 1 43 | 25 38 | 2 43 | 10 23 | 1 31 | 15 41 | 0 40 | 15 57 | 0 56 | 9 28 | 0 35 | 13 49 | 0 34 | 22 20 | 0 2 | 14 35 | 14 56 | 15 28 | 10 17 | 0 3 |
| T 27 | 12 52 | 7 8 | 2 15 | 19 51 | 1 49 | 25 46 | 2 45 | 10 10 | 1 31 | 15 39 | 0 41 | 15 56 | 0 56 | 9 27 | 0 35 | 13 49 | 0 34 | 22 20 | 0 2 | 14 36 | 14 57 | 15 27 | 10 16 | 0 3 |
| W28 | 13 12 | 2 26 | 3 18 | 20 19 | 1 54 | 25 53 | 2 47 | 9 58 | 1 32 | 15 37 | 0 41 | 15 55 | 0 56 | 9 26 | 0 35 | 13 49 | 0 34 | 22 20 | 0 2 | 14 37 | 14 58 | 15 26 | 10 14 | 0 3 |
| T 29 | 13 32 | 2s22 | 4 8 | 20 46 | 1 59 | 26 0 | 2 49 | 9 45 | 1 32 | 15 35 | 0 41 | 15 54 | 0 56 | 9 25 | 0 35 | 13 49 | 0 34 | 22 20 | 0 2 | 14 40 | 14 59 | 15 24 | 10 13 | 0 3 |
| F 30 | 13 52 | 7 0 | 4 42 | 21 11 | 2 4 | 26 6 | 2 51 | 9 32 | 1 33 | 15 33 | 0 41 | 15 53 | 0 56 | 9 25 | 0 35 | 13 49 | 0 34 | 22 20 | 0 2 | 14 43 | 15 0 | 15 23 | 10 12 | 0 3 |
| S 31 | 14s11 | 11s11 | 4n59 | 21s36 | 2s 9 | 26s12 | 2s53 | 9n20 | 1n33 | 15n31 | 0n41 | 15n53 | 0n57 | 9n24 | 0s35 | 13s49 | 0s34 | 22n20 | 0s 2 | 14n47 | 15n 1 | 15s22 | 10n11 | 0s 3 |

Julian Day Number = 2335671.5, Delta T = 22.12 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'43, Lahiri = 19°25'43Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## NOVEMBER 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 42 26 | 8♏58'19 | 27♏ 6 | 28♏20 | 24♐40 | 10♍27 | 20♌ 3 | 19♌36 | 25°R38 | 24°R47 | 17°R13 | 19°R57 | 19♌22 | 17♒59 | 26°R26 | S 1 |
| M 2 | 2 46 22 | 9°58'34 | 10♐17 | 29°42 | 25°47 | 11° 1 | 20° 9 | 19°39 | 25♈36 | 24♒47 | 17♋13 | 19♌45 | 19°18 | 18° 6 | 26♈24 | M 2 |
| T 3 | 2 50 19 | 10°58'50 | 23° 6 | 1♐ 4 | 26°54 | 11°36 | 20°16 | 19°42 | 25°33 | 24°47 | 17°13 | 19°35 | 19°15 | 18°13 | 26°21 | T 3 |
| W 4 | 2 54 15 | 11°59'08 | 5♑36 | 2°24 | 28° 1 | 12°11 | 20°22 | 19°45 | 25°31 | 24°47 | 17°12 | 19°28 | 19°12 | 18°19 | 26°18 | W 4 |
| T 5 | 2 58 12 | 12°59'28 | 17°48 | 3°43 | 29° 7 | 12°45 | 20°28 | 19°48 | 25°29 | 24°47 | 17°12 | 19°23 | 19° 9 | 18°26 | 26°15 | T 5 |
| F 6 | 3 2 8 | 13°59'49 | 29°46 | 5° 1 | 0♑13 | 13°19 | 20°34 | 19°51 | 25°26 | 24°D47 | 17°11 | 19°21 | 19° 6 | 18°33 | 26°12 | F 6 |
| S 7 | 3 6 5 | 15° 0'11 | 11♒37 | 6°18 | 1°19 | 13°54 | 20°39 | 19°54 | 25°24 | 24°47 | 17°11 | 19°20 | 19° 2 | 18°39 | 26°10 | S 7 |
| S 8 | 3 10 1 | 16° 0'35 | 23°24 | 7°33 | 2°25 | 14°28 | 20°45 | 19°56 | 25°22 | 24°47 | 17°10 | 19°20 | 18°59 | 18°46 | 26° 7 | S 8 |
| M 9 | 3 13 58 | 17° 1'00 | 5♓15 | 8°46 | 3°31 | 15° 2 | 20°50 | 19°59 | 25°20 | 24°47 | 17°10 | 19°20 | 18°56 | 18°53 | 26° 4 | M 9 |
| T 10 | 3 17 55 | 18° 1'27 | 17°13 | 9°58 | 4°36 | 15°36 | 20°55 | 20° 1 | 25°17 | 24°47 | 17° 9 | 19°17 | 18°53 | 18°59 | 26° 1 | T 10 |
| W11 | 3 21 51 | 19° 1'54 | 29°25 | 11° 7 | 5°42 | 16°10 | 21° 1 | 20° 3 | 25°15 | 24°47 | 17° 9 | 19°13 | 18°50 | 19° 6 | 25°59 | W11 |
| T 12 | 3 25 48 | 20° 2'24 | 11♈53 | 12°13 | 6°47 | 16°44 | 21° 5 | 20° 6 | 25°13 | 24°47 | 17° 8 | 19° 5 | 18°47 | 19°12 | 25°56 | T 12 |
| F 13 | 3 29 44 | 21° 2'54 | 24°41 | 13°17 | 7°51 | 17°18 | 21°10 | 20° 8 | 25°11 | 24°48 | 17° 8 | 18°55 | 18°43 | 19°19 | 25°54 | F 13 |
| S 14 | 3 33 41 | 22° 3'26 | 7♉50 | 14°17 | 8°56 | 17°52 | 21°15 | 20°10 | 25° 9 | 24°48 | 17° 7 | 18°43 | 18°40 | 19°26 | 25°51 | S 14 |
| S 15 | 3 37 37 | 23° 4'00 | 21°18 | 15°14 | 10° 0 | 18°26 | 21°19 | 20°11 | 25° 7 | 24°48 | 17° 6 | 18°30 | 18°37 | 19°32 | 25°48 | S 15 |
| M16 | 3 41 34 | 24° 4'35 | 5♊ 2 | 16° 7 | 11° 4 | 18°59 | 21°23 | 20°13 | 25° 5 | 24°49 | 17° 6 | 18°17 | 18°34 | 19°39 | 25°46 | M16 |
| T 17 | 3 45 30 | 25° 5'12 | 19° 0 | 16°55 | 12° 7 | 19°33 | 21°27 | 20°15 | 25° 3 | 24°49 | 17° 5 | 18° 6 | 18°31 | 19°46 | 25°43 | T 17 |
| W18 | 3 49 27 | 26° 5'50 | 3♋ 7 | 17°37 | 13°11 | 20° 6 | 21°31 | 20°16 | 25° 1 | 24°49 | 17° 4 | 17°57 | 18°27 | 19°52 | 25°41 | W18 |
| T 19 | 3 53 24 | 27° 6'30 | 17°17 | 18°14 | 14°14 | 20°40 | 21°35 | 20°18 | 24°59 | 24°50 | 17° 3 | 17°51 | 18°24 | 19°59 | 25°39 | T 19 |
| F 20 | 3 57 20 | 28° 7'11 | 1♌28 | 18°44 | 15°17 | 21°13 | 21°38 | 20°19 | 24°57 | 24°50 | 17° 3 | 17°49 | 18°21 | 20° 6 | 25°36 | F 20 |
| S 21 | 4 1 17 | 29° 7'55 | 15°37 | 19° 6 | 16°19 | 21°46 | 21°41 | 20°20 | 24°55 | 24°51 | 17° 2 | 17°D48 | 18°18 | 20°12 | 25°34 | S 21 |
| S 22 | 4 5 13 | 0♐ 8'39 | 29°43 | 19°21 | 17°21 | 22°19 | 21°45 | 20°21 | 24°53 | 24°51 | 17° 1 | 17°R48 | 18°15 | 20°19 | 25°31 | S 22 |
| M23 | 4 9 10 | 1° 9'25 | 13♍45 | 19°R26 | 18°23 | 22°52 | 21°47 | 20°22 | 24°51 | 24°52 | 17° 0 | 17°48 | 18°12 | 20°26 | 25°29 | M23 |
| T 24 | 4 13 6 | 2°10'13 | 27°43 | 19°21 | 19°24 | 23°25 | 21°50 | 20°23 | 24°49 | 24°53 | 16°59 | 17°45 | 18° 8 | 20°32 | 25°27 | T 24 |
| W25 | 4 17 3 | 3°11'03 | 11♎35 | 19° 6 | 20°25 | 23°58 | 21°53 | 20°24 | 24°47 | 24°53 | 16°59 | 17°40 | 18° 5 | 20°39 | 25°25 | W25 |
| T 26 | 4 20 59 | 4°11'53 | 25°20 | 18°40 | 21°26 | 24°30 | 21°55 | 20°24 | 24°46 | 24°54 | 16°58 | 17°32 | 18° 2 | 20°45 | 25°23 | T 26 |
| F 27 | 4 24 56 | 5°12'45 | 8♏56 | 18° 3 | 22°26 | 25° 3 | 21°57 | 20°25 | 24°44 | 24°55 | 16°57 | 17°22 | 17°59 | 20°52 | 25°21 | F 27 |
| S 28 | 4 28 53 | 6°13'39 | 22°21 | 17°15 | 23°26 | 25°35 | 21°59 | 20°25 | 24°42 | 24°55 | 16°56 | 17°10 | 17°56 | 20°59 | 25°18 | S 28 |
| S 29 | 4 32 49 | 7°14'34 | 5♐32 | 16°17 | 24°26 | 26° 8 | 22° 1 | 20°26 | 24°41 | 24°56 | 16°55 | 16°57 | 17°53 | 21° 5 | 25°16 | S 29 |
| M30 | 4 36 46 | 8♐15'29 | 18♐28 | 15♐10 | 25♑25 | 26♍40 | 22♌ 3 | 20♌26 | 24♈39 | 24♒57 | 16♋54 | 16♌45 | 17♌49 | 21♒12 | 25♈14 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s31 | 14s42 | 4n59 | 21s59 | 2s13 | 26s16 | 2s54 | 9n 7 | 1n34 | 15n29 | 0n42 | 15n52 | 0n57 | 9n23 | 0s35 | 13s49 | 0s34 | 22n20 | 0s 2 | 14n51 | 15n 2 | 15s21 | 10n10 | 0s 3 |
| M 2 | 14 50 | 17 22 | 4 42 | 22 22 | 2 18 | 26 20 | 2 56 | 8 54 | 1 34 | 15 27 | 0 42 | 15 51 | 0 57 | 9 22 | 0 35 | 13 49 | 0 34 | 22 20 | 0 2 | 14 55 | 15 3 | 15 20 | 10 9 | 0 4 |
| T 3 | 15 9 | 19 7 | 4 12 | 22 43 | 2 21 | 26 24 | 2 57 | 8 41 | 1 35 | 15 25 | 0 42 | 15 50 | 0 57 | 9 21 | 0 35 | 13 49 | 0 34 | 22 21 | 0 2 | 14 58 | 15 4 | 15 18 | 10 8 | 0 4 |
| W 4 | 15 27 | 19 52 | 3 30 | 23 3 | 2 25 | 26 26 | 2 59 | 8 29 | 1 36 | 15 23 | 0 42 | 15 49 | 0 57 | 9 20 | 0 35 | 13 49 | 0 34 | 22 21 | 0 1 | 15 0 | 15 5 | 15 17 | 10 7 | 0 4 |
| T 5 | 15 46 | 19 40 | 2 39 | 23 21 | 2 28 | 26 28 | 3 0 | 8 16 | 1 36 | 15 22 | 0 42 | 15 49 | 0 58 | 9 20 | 0 35 | 13 49 | 0 34 | 22 21 | 0 1 | 15 2 | 15 6 | 15 16 | 10 5 | 0 4 |
| F 6 | 16 4 | 18 34 | 1 42 | 23 39 | 2 31 | 26 30 | 3 1 | 8 3 | 1 37 | 15 20 | 0 43 | 15 48 | 0 58 | 9 19 | 0 35 | 13 49 | 0 34 | 22 21 | 0 1 | 15 3 | 15 7 | 15 15 | 10 4 | 0 4 |
| S 7 | 16 22 | 16 40 | 0 41 | 23 55 | 2 33 | 26 30 | 3 2 | 7 50 | 1 37 | 15 18 | 0 43 | 15 47 | 0 58 | 9 18 | 0 35 | 13 49 | 0 34 | 22 21 | 0 1 | 15 3 | 15 8 | 15 14 | 10 3 | 0 4 |
| S 8 | 16 39 | 14 5 | 0s22 | 24 10 | 2 35 | 26 30 | 3 3 | 7 37 | 1 38 | 15 17 | 0 43 | 15 47 | 0 58 | 9 17 | 0 35 | 13 49 | 0 34 | 22 21 | 0 1 | 15 3 | 15 9 | 15 12 | 10 2 | 0 4 |
| M 9 | 16 57 | 10 54 | 1 23 | 24 23 | 2 37 | 26 30 | 3 4 | 7 25 | 1 38 | 15 15 | 0 43 | 15 46 | 0 58 | 9 16 | 0 35 | 13 49 | 0 34 | 22 21 | 0 1 | 15 3 | 15 10 | 15 11 | 10 1 | 0 4 |
| T 10 | 17 14 | 7 14 | 2 22 | 24 35 | 2 38 | 26 28 | 3 4 | 7 12 | 1 39 | 15 14 | 0 44 | 15 45 | 0 59 | 9 16 | 0 35 | 13 49 | 0 34 | 22 21 | 0 1 | 15 4 | 15 11 | 15 10 | 10 0 | 0 4 |
| W11 | 17 30 | 3 13 | 3 15 | 24 45 | 2 38 | 26 26 | 3 5 | 6 59 | 1 39 | 15 13 | 0 44 | 15 45 | 0 59 | 9 15 | 0 35 | 13 49 | 0 34 | 22 22 | 0 1 | 15 5 | 15 12 | 15 9 | 9 59 | 0 4 |
| T 12 | 17 47 | 1n 1 | 4 0 | 24 54 | 2 38 | 26 23 | 3 5 | 6 46 | 1 40 | 15 11 | 0 44 | 15 44 | 0 59 | 9 14 | 0 35 | 13 49 | 0 34 | 22 22 | 0 1 | 15 7 | 15 13 | 15 7 | 9 58 | 0 4 |
| F 13 | 18 3 | 5 19 | 4 34 | 25 1 | 2 37 | 26 20 | 3 6 | 6 34 | 1 40 | 15 10 | 0 44 | 15 44 | 0 59 | 9 13 | 0 35 | 13 49 | 0 34 | 22 22 | 0 1 | 15 11 | 15 14 | 15 6 | 9 57 | 0 4 |
| S 14 | 18 19 | 9 29 | 4 55 | 25 7 | 2 35 | 26 16 | 3 6 | 6 21 | 1 41 | 15 9 | 0 44 | 15 44 | 0 59 | 9 12 | 0 35 | 13 49 | 0 34 | 22 22 | 0 1 | 15 14 | 15 15 | 15 5 | 9 56 | 0 5 |
| S 15 | 18 34 | 13 17 | 5 0 | 25 11 | 2 33 | 26 11 | 3 6 | 6 8 | 1 41 | 15 7 | 0 45 | 15 43 | 1 0 | 9 12 | 0 35 | 13 49 | 0 34 | 22 22 | 0 1 | 15 19 | 15 16 | 15 4 | 9 55 | 0 5 |
| M16 | 18 49 | 16 27 | 4 48 | 25 13 | 2 29 | 26 6 | 3 5 | 5 55 | 1 42 | 15 6 | 0 45 | 15 43 | 1 0 | 9 11 | 0 35 | 13 49 | 0 34 | 22 22 | 0 1 | 15 22 | 15 17 | 15 2 | 9 54 | 0 5 |
| T 17 | 19 4 | 18 44 | 4 18 | 25 14 | 2 25 | 26 0 | 3 5 | 5 43 | 1 42 | 15 5 | 0 45 | 15 42 | 1 0 | 9 10 | 0 35 | 13 48 | 0 34 | 22 22 | 0 1 | 15 26 | 15 18 | 15 1 | 9 53 | 0 5 |
| W18 | 19 19 | 19 54 | 3 33 | 25 13 | 2 19 | 25 53 | 3 5 | 5 30 | 1 43 | 15 4 | 0 45 | 15 42 | 1 0 | 9 10 | 0 35 | 13 48 | 0 34 | 22 23 | 0 1 | 15 29 | 15 19 | 15 0 | 9 52 | 0 5 |
| T 19 | 19 33 | 19 49 | 2 34 | 25 10 | 2 13 | 25 46 | 3 4 | 5 17 | 1 43 | 15 3 | 0 46 | 15 42 | 1 0 | 9 9 | 0 35 | 13 48 | 0 34 | 22 23 | 0 1 | 15 30 | 15 20 | 14 59 | 9 51 | 0 5 |
| F 20 | 19 46 | 18 29 | 1 25 | 25 5 | 2 5 | 25 38 | 3 3 | 5 5 | 1 44 | 15 2 | 0 46 | 15 42 | 1 1 | 9 8 | 0 35 | 13 48 | 0 34 | 22 23 | 0 0 | 15 31 | 15 21 | 14 57 | 9 50 | 0 5 |
| S 21 | 20 0 | 16 0 | 0 12 | 24 57 | 1 56 | 25 30 | 3 2 | 4 52 | 1 44 | 15 2 | 0 46 | 15 41 | 1 1 | 9 7 | 0 35 | 13 48 | 0 34 | 22 23 | 0 0 | 15 31 | 15 22 | 14 56 | 9 49 | 0 5 |
| S 22 | 20 13 | 12 34 | 1n 3 | 24 48 | 1 46 | 25 21 | 3 1 | 4 39 | 1 45 | 15 1 | 0 46 | 15 41 | 1 1 | 9 7 | 0 35 | 13 48 | 0 34 | 22 23 | 0 0 | 15 31 | 15 23 | 14 55 | 9 48 | 0 5 |
| M23 | 20 26 | 8 27 | 2 13 | 24 37 | 1 34 | 25 11 | 3 0 | 4 27 | 1 45 | 15 0 | 0 47 | 15 41 | 1 1 | 9 6 | 0 35 | 13 47 | 0 34 | 22 23 | 0 0 | 15 31 | 15 24 | 14 54 | 9 47 | 0 5 |
| T 24 | 20 38 | 3 53 | 3 15 | 24 23 | 1 20 | 25 1 | 2 58 | 4 14 | 1 46 | 14 59 | 0 47 | 15 41 | 1 1 | 9 5 | 0 35 | 13 47 | 0 34 | 22 24 | 0 0 | 15 32 | 15 25 | 14 52 | 9 46 | 0 5 |
| W25 | 20 50 | 0s50 | 4 5 | 24 7 | 1 6 | 24 50 | 2 57 | 4 2 | 1 46 | 14 59 | 0 47 | 15 41 | 1 2 | 9 5 | 0 35 | 13 47 | 0 34 | 22 24 | 0 0 | 15 34 | 15 26 | 14 51 | 9 46 | 0 5 |
| T 26 | 21 1 | 5 28 | 4 40 | 23 49 | 0 49 | 24 39 | 2 55 | 3 49 | 1 47 | 14 58 | 0 47 | 15 41 | 1 2 | 9 4 | 0 35 | 13 47 | 0 34 | 22 24 | 0 0 | 15 36 | 15 27 | 14 50 | 9 45 | 0 6 |
| F 27 | 21 12 | 9 47 | 4 59 | 23 28 | 0 32 | 24 27 | 2 53 | 3 37 | 1 47 | 14 58 | 0 48 | 15 41 | 1 2 | 9 4 | 0 34 | 13 46 | 0 34 | 22 24 | 0 0 | 15 39 | 15 28 | 14 49 | 9 44 | 0 6 |
| S 28 | 21 23 | 13 33 | 5 1 | 23 5 | 0 13 | 24 15 | 2 51 | 3 24 | 1 48 | 14 57 | 0 48 | 15 41 | 1 2 | 9 3 | 0 34 | 13 46 | 0 34 | 22 24 | 0n 0 | 15 43 | 15 29 | 14 47 | 9 43 | 0 6 |
| S 29 | 21 33 | 16 34 | 4 46 | 22 40 | 0n 7 | 24 2 | 2 48 | 3 12 | 1 49 | 14 57 | 0 48 | 15 41 | 1 2 | 9 2 | 0 34 | 13 46 | 0 34 | 22 24 | 0 0 | 15 47 | 15 30 | 14 46 | 9 42 | 0 6 |
| M30 | 21s43 | 18s42 | 4n18 | 22s12 | 0n27 | 23s49 | 2s46 | 3n 0 | 1n49 | 14n57 | 0n48 | 15n41 | 1n 3 | 9n 2 | 0s34 | 13s46 | 0s34 | 22n25 | 0n 0 | 15n50 | 15n31 | 14s45 | 9n41 | 0s 6 |

Julian Day Number = 2335702.5, Delta T = 22.08 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'47, Lahiri = 19°25'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1682
# geocentric

## DECEMBER 1682 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 40 42 | 9♐16'26 | 1♉ 7 | 13°R55 | 26♉23 | 27♍12 | 22♌ 4 | 20°R26 | 24°R38 | 24♒58 | 16°R53 | 16°R35 | 17♌46 | 21♒19 | 25°R13 | T 1 |
| W 2 | 4 44 39 | 10°17'24 | 13°30 | 12♐35 | 27°22 | 27°44 | 22° 5 | 20♌26 | 24♈36 | 24°59 | 16♋52 | 16♌28 | 17°43 | 21°25 | 25♈11 | W 2 |
| T 3 | 4 48 35 | 11°18'23 | 25°38 | 11°12 | 28°19 | 28°16 | 22° 6 | 20°26 | 24°35 | 25° 0 | 16°51 | 16°23 | 17°40 | 21°32 | 25° 9 | T 3 |
| F 4 | 4 52 32 | 12°19'22 | 7♒36 | 9°50 | 29°16 | 28°48 | 22° 7 | 20°25 | 24°33 | 25° 0 | 16°50 | 16°20 | 17°37 | 21°39 | 25° 7 | F 4 |
| S 5 | 4 56 28 | 13°20'22 | 19°25 | 8°30 | 0♒13 | 29°19 | 22° 8 | 20°25 | 24°32 | 25° 1 | 16°49 | 16°D20 | 17°33 | 21°45 | 25° 5 | S 5 |
| S 6 | 5 0 25 | 14°21'22 | 1♓12 | 7°16 | 1° 9 | 29°51 | 22° 8 | 20°24 | 24°30 | 25° 2 | 16°48 | 16°21 | 17°30 | 21°52 | 25° 4 | S 6 |
| M 7 | 5 4 22 | 15°22'24 | 13° 1 | 6°10 | 2° 4 | 0♎22 | 22° 9 | 20°24 | 24°29 | 25° 3 | 16°47 | 16°R21 | 17°27 | 21°59 | 25° 2 | M 7 |
| T 8 | 5 8 18 | 16°23'25 | 24°59 | 5°12 | 2°59 | 0°54 | 22°R 9 | 20°23 | 24°28 | 25° 5 | 16°46 | 16°21 | 17°24 | 22° 5 | 25° 0 | T 8 |
| W 9 | 5 12 15 | 17°24'27 | 7♈10 | 4°26 | 3°53 | 1°25 | 22° 8 | 20°22 | 24°27 | 25° 6 | 16°45 | 16°19 | 17°21 | 22°12 | 24°59 | W 9 |
| T 10 | 5 16 11 | 18°25'30 | 19°39 | 3°50 | 4°47 | 1°56 | 22° 8 | 20°21 | 24°25 | 25° 7 | 16°44 | 16°14 | 17°18 | 22°19 | 24°57 | T 10 |
| F 11 | 5 20 8 | 19°26'33 | 2♉31 | 3°26 | 5°39 | 2°27 | 22° 8 | 20°20 | 24°24 | 25° 8 | 16°43 | 16° 7 | 17°14 | 22°25 | 24°56 | F 11 |
| S 12 | 5 24 4 | 20°27'37 | 15°47 | 3°12 | 6°31 | 2°57 | 22° 7 | 20°19 | 24°23 | 25° 9 | 16°42 | 15°59 | 17°11 | 22°32 | 24°55 | S 12 |
| S 13 | 5 28 1 | 21°28'41 | 29°28 | 3°D 9 | 7°23 | 3°28 | 22° 6 | 20°18 | 24°22 | 25°10 | 16°40 | 15°49 | 17° 8 | 22°38 | 24°53 | S 13 |
| M14 | 5 31 57 | 22°29'45 | 13♊31 | 3°16 | 8°13 | 3°59 | 22° 5 | 20°16 | 24°21 | 25°12 | 16°39 | 15°40 | 17° 5 | 22°45 | 24°52 | M14 |
| T 15 | 5 35 54 | 23°30'50 | 27°52 | 3°32 | 9° 3 | 4°29 | 22° 3 | 20°15 | 24°20 | 25°13 | 16°38 | 15°32 | 17° 2 | 22°52 | 24°51 | T 15 |
| W16 | 5 39 51 | 24°31'56 | 12♋25 | 3°56 | 9°52 | 4°59 | 22° 2 | 20°13 | 24°19 | 25°14 | 16°37 | 15°25 | 16°59 | 22°58 | 24°50 | W16 |
| T 17 | 5 43 47 | 25°33'02 | 27° 4 | 4°27 | 10°40 | 5°29 | 22° 0 | 20°11 | 24°19 | 25°16 | 16°36 | 15°22 | 16°55 | 23° 5 | 24°49 | T 17 |
| F 18 | 5 47 44 | 26°34'09 | 11♌40 | 5° 5 | 11°27 | 5°59 | 21°58 | 20°10 | 24°18 | 25°17 | 16°35 | 15°D20 | 16°52 | 23°12 | 24°48 | F 18 |
| S 19 | 5 51 40 | 27°35'17 | 26°10 | 5°49 | 12°13 | 6°29 | 21°56 | 20° 8 | 24°17 | 25°18 | 16°33 | 15°21 | 16°49 | 23°18 | 24°47 | S 19 |
| S 20 | 5 55 37 | 28°36'25 | 10♍29 | 6°38 | 12°59 | 6°58 | 21°54 | 20° 6 | 24°16 | 25°20 | 16°32 | 15°22 | 16°46 | 23°25 | 24°46 | S 20 |
| M21 | 5 59 33 | 29°37'33 | 24°36 | 7°32 | 13°43 | 7°28 | 21°51 | 20° 4 | 24°16 | 25°21 | 16°31 | 15°R23 | 16°43 | 23°32 | 24°45 | M21 |
| T 22 | 6 3 30 | 0♉38'43 | 8♎29 | 8°30 | 14°26 | 7°57 | 21°49 | 20° 1 | 24°15 | 25°23 | 16°30 | 15°23 | 16°39 | 23°38 | 24°44 | T 22 |
| W23 | 6 7 26 | 1°39'53 | 22° 8 | 9°31 | 15° 8 | 8°26 | 21°46 | 19°59 | 24°15 | 25°24 | 16°28 | 15°21 | 16°36 | 23°45 | 24°43 | W23 |
| T 24 | 6 11 23 | 2°41'03 | 5♏34 | 10°36 | 15°49 | 8°55 | 21°43 | 19°57 | 24°14 | 25°26 | 16°27 | 15°17 | 16°33 | 23°52 | 24°42 | T 24 |
| F 25 | 6 15 20 | 3°42'14 | 18°48 | 11°44 | 16°28 | 9°24 | 21°40 | 19°54 | 24°14 | 25°27 | 16°26 | 15°11 | 16°30 | 23°58 | 24°42 | F 25 |
| S 26 | 6 19 16 | 4°43'25 | 1♐48 | 12°54 | 17° 7 | 9°52 | 21°36 | 19°51 | 24°13 | 25°29 | 16°25 | 15° 4 | 16°27 | 24° 5 | 24°41 | S 26 |
| S 27 | 6 23 13 | 5°44'36 | 14°36 | 14° 6 | 17°44 | 10°21 | 21°33 | 19°49 | 24°13 | 25°30 | 16°23 | 14°56 | 16°24 | 24°12 | 24°41 | S 27 |
| M28 | 6 27 9 | 6°45'48 | 27°12 | 15°20 | 18°20 | 10°49 | 21°29 | 19°46 | 24°13 | 25°32 | 16°22 | 14°49 | 16°20 | 24°18 | 24°40 | M28 |
| T 29 | 6 31 6 | 7°47'00 | 9♉35 | 16°36 | 18°54 | 11°17 | 21°25 | 19°43 | 24°12 | 25°34 | 16°21 | 14°43 | 16°17 | 24°25 | 24°40 | T 29 |
| W30 | 6 35 2 | 8°48'12 | 21°47 | 17°54 | 19°27 | 11°45 | 21°21 | 19°40 | 24°12 | 25°35 | 16°20 | 14°39 | 16°14 | 24°31 | 24°40 | W30 |
| T 31 | 6 38 59 | 9♉49'23 | 3♒48 | 19♐13 | 19♒59 | 12♎12 | 21♌16 | 19♌37 | 24♈12 | 25♒37 | 16♋18 | 14♌36 | 16♌11 | 24♒38 | 24♈39 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s53 | 19s52 | 3n36 | 21s43 | 0n47 | 23s35 | 2s43 | 2n47 | 1n50 | 14n56 | 0n49 | 15n42 | 1n 3 | 9n 1 | 0s34 | 13s45 | 0s34 | 22n25 | 0n 0 | 15n53 | 15n32 | 14s43 | 9n41 | 0s 6 |
| W 2 | 22 2 | 20 3 | 2 46 | 21 14 | 1 7 | 23 20 | 2 40 | 2 35 | 1 50 | 14 56 | 0 49 | 15 42 | 1 3 | 9 1 | 0 34 | 13 45 | 0 34 | 22 25 | 0 0 | 15 56 | 15 33 | 14 42 | 9 40 | 0 6 |
| T 3 | 22 10 | 19 17 | 1 48 | 20 44 | 1 27 | 23 6 | 2 37 | 2 23 | 1 51 | 14 56 | 0 49 | 15 42 | 1 3 | 9 0 | 0 34 | 13 45 | 0 34 | 22 25 | 0 0 | 15 57 | 15 34 | 14 41 | 9 39 | 0 6 |
| F 4 | 22 19 | 17 39 | 0 47 | 20 14 | 1 45 | 22 51 | 2 34 | 2 11 | 1 51 | 14 56 | 0 49 | 15 42 | 1 3 | 9 0 | 0 34 | 13 44 | 0 34 | 22 25 | 0 0 | 15 58 | 15 35 | 14 39 | 9 38 | 0 6 |
| S 5 | 22 26 | 15 17 | 0s17 | 19 46 | 2 1 | 22 35 | 2 30 | 1 59 | 1 52 | 14 56 | 0 50 | 15 43 | 1 4 | 8 59 | 0 34 | 13 44 | 0 34 | 22 26 | 0 0 | 15 58 | 15 36 | 14 38 | 9 38 | 0 6 |
| S 6 | 22 34 | 12 18 | 1 19 | 19 20 | 2 15 | 22 19 | 2 27 | 1 47 | 1 52 | 14 56 | 0 50 | 15 43 | 1 4 | 8 59 | 0 34 | 13 44 | 0 34 | 22 26 | 0 1 | 15 58 | 15 37 | 14 37 | 9 37 | 0 6 |
| M 7 | 22 40 | 8 48 | 2 18 | 18 58 | 2 27 | 22 3 | 2 23 | 1 35 | 1 53 | 14 56 | 0 50 | 15 43 | 1 4 | 8 58 | 0 34 | 13 43 | 0 34 | 22 26 | 0 1 | 15 58 | 15 38 | 14 35 | 9 36 | 0 6 |
| T 8 | 22 47 | 4 56 | 3 12 | 18 38 | 2 36 | 21 46 | 2 18 | 1 23 | 1 53 | 14 57 | 0 50 | 15 44 | 1 4 | 8 58 | 0 34 | 13 43 | 0 34 | 22 26 | 0 1 | 15 58 | 15 39 | 14 34 | 9 36 | 0 7 |
| W 9 | 22 53 | 0 48 | 3 58 | 18 23 | 2 44 | 21 29 | 2 14 | 1 11 | 1 54 | 14 57 | 0 51 | 15 44 | 1 4 | 8 58 | 0 34 | 13 43 | 0 34 | 22 26 | 0 1 | 15 58 | 15 40 | 14 33 | 9 35 | 0 7 |
| T 10 | 22 58 | 3n28 | 4 34 | 18 11 | 2 49 | 21 12 | 2 9 | 0 59 | 1 54 | 14 57 | 0 51 | 15 45 | 1 5 | 8 57 | 0 34 | 13 42 | 0 34 | 22 27 | 0 1 | 16 0 | 15 41 | 14 31 | 9 34 | 0 7 |
| F 11 | 23 3 | 7 42 | 4 57 | 18 4 | 2 52 | 20 54 | 2 4 | 0 47 | 1 55 | 14 58 | 0 51 | 15 45 | 1 5 | 8 57 | 0 34 | 13 42 | 0 34 | 22 27 | 0 1 | 16 2 | 15 42 | 14 30 | 9 34 | 0 7 |
| S 12 | 23 8 | 11 42 | 5 6 | 18 0 | 2 53 | 20 36 | 1 59 | 0 35 | 1 56 | 14 58 | 0 51 | 15 46 | 1 5 | 8 56 | 0 34 | 13 41 | 0 34 | 22 27 | 0 1 | 16 4 | 15 43 | 14 29 | 9 33 | 0 7 |
| S 13 | 23 12 | 15 13 | 4 57 | 18 0 | 2 53 | 20 18 | 1 54 | 0 24 | 1 56 | 14 59 | 0 52 | 15 47 | 1 5 | 8 56 | 0 34 | 13 41 | 0 34 | 22 27 | 0 1 | 16 7 | 15 44 | 14 27 | 9 33 | 0 7 |
| M14 | 23 16 | 17 59 | 4 31 | 18 3 | 2 51 | 19 59 | 1 48 | 0 12 | 1 57 | 14 59 | 0 52 | 15 47 | 1 5 | 8 56 | 0 34 | 13 41 | 0 34 | 22 27 | 0 1 | 16 10 | 15 44 | 14 26 | 9 32 | 0 7 |
| T 15 | 23 19 | 19 41 | 3 47 | 18 9 | 2 48 | 19 40 | 1 43 | 0 1 | 1 57 | 15 0 | 0 52 | 15 48 | 1 6 | 8 55 | 0 34 | 13 40 | 0 34 | 22 28 | 0 1 | 16 12 | 15 45 | 14 25 | 9 32 | 0 7 |
| W16 | 23 22 | 20 7 | 2 48 | 18 17 | 2 44 | 19 21 | 1 37 | 0s11 | 1 58 | 15 1 | 0 52 | 15 49 | 1 6 | 8 55 | 0 34 | 13 40 | 0 34 | 22 28 | 0 1 | 16 14 | 15 46 | 14 23 | 9 31 | 0 7 |
| T 17 | 23 24 | 19 12 | 1 37 | 18 28 | 2 39 | 19 2 | 1 30 | 0 22 | 1 58 | 15 2 | 0 53 | 15 49 | 1 6 | 8 55 | 0 34 | 13 39 | 0 34 | 22 28 | 0 1 | 16 15 | 15 47 | 14 22 | 9 31 | 0 7 |
| F 18 | 23 26 | 17 0 | 0 20 | 18 41 | 2 33 | 18 43 | 1 24 | 0 34 | 1 59 | 15 2 | 0 53 | 15 50 | 1 6 | 8 55 | 0 34 | 13 39 | 0 34 | 22 28 | 0 1 | 16 16 | 15 48 | 14 21 | 9 30 | 0 7 |
| S 19 | 23 27 | 13 44 | 0n58 | 18 55 | 2 26 | 18 23 | 1 17 | 0 45 | 1 59 | 15 3 | 0 53 | 15 51 | 1 6 | 8 54 | 0 34 | 13 38 | 0 34 | 22 28 | 0 1 | 16 16 | 15 49 | 14 19 | 9 30 | 0 7 |
| S 20 | 23 28 | 9 41 | 2 12 | 19 10 | 2 19 | 18 4 | 1 10 | 0 56 | 2 0 | 15 4 | 0 53 | 15 52 | 1 7 | 8 54 | 0 34 | 13 38 | 0 34 | 22 29 | 0 1 | 16 15 | 15 50 | 14 18 | 9 29 | 0 7 |
| M21 | 23 29 | 5 9 | 3 16 | 19 26 | 2 12 | 17 44 | 1 2 | 1 7 | 2 1 | 15 5 | 0 54 | 15 53 | 1 7 | 8 54 | 0 34 | 13 37 | 0 34 | 22 29 | 0 2 | 16 15 | 15 51 | 14 17 | 9 29 | 0 8 |
| T 22 | 23 29 | 0 26 | 4 8 | 19 43 | 2 4 | 17 24 | 0 54 | 1 18 | 2 1 | 15 6 | 0 54 | 15 53 | 1 7 | 8 54 | 0 34 | 13 37 | 0 34 | 22 29 | 0 2 | 16 15 | 15 52 | 14 15 | 9 29 | 0 8 |
| W23 | 23 28 | 4s14 | 4 45 | 20 0 | 1 57 | 17 4 | 0 46 | 1 29 | 2 2 | 15 8 | 0 54 | 15 54 | 1 7 | 8 54 | 0 34 | 13 36 | 0 34 | 22 29 | 0 2 | 16 16 | 15 53 | 14 14 | 9 28 | 0 8 |
| T 24 | 23 27 | 8 36 | 5 5 | 20 17 | 1 48 | 16 44 | 0 38 | 1 40 | 2 2 | 15 9 | 0 54 | 15 55 | 1 7 | 8 53 | 0 34 | 13 36 | 0 34 | 22 29 | 0 2 | 16 17 | 15 54 | 14 13 | 9 28 | 0 8 |
| F 25 | 23 26 | 12 29 | 5 9 | 20 35 | 1 40 | 16 24 | 0 30 | 1 51 | 2 3 | 15 10 | 0 54 | 15 56 | 1 8 | 8 53 | 0 34 | 13 35 | 0 34 | 22 30 | 0 2 | 16 19 | 15 55 | 14 11 | 9 28 | 0 8 |
| S 26 | 23 24 | 15 43 | 4 57 | 20 52 | 1 32 | 16 4 | 0 21 | 2 1 | 2 3 | 15 11 | 0 55 | 15 57 | 1 8 | 8 53 | 0 34 | 13 35 | 0 34 | 22 30 | 0 2 | 16 21 | 15 56 | 14 10 | 9 27 | 0 8 |
| S 27 | 23 21 | 18 7 | 4 30 | 21 9 | 1 23 | 15 44 | 0 12 | 2 12 | 2 4 | 15 13 | 0 55 | 15 58 | 1 8 | 8 53 | 0 34 | 13 34 | 0 34 | 22 30 | 0 2 | 16 23 | 15 57 | 14 8 | 9 27 | 0 8 |
| M28 | 23 18 | 19 37 | 3 50 | 21 26 | 1 15 | 15 24 | 0 2 | 2 23 | 2 5 | 15 14 | 0 55 | 15 59 | 1 8 | 8 53 | 0 34 | 13 34 | 0 34 | 22 30 | 0 2 | 16 25 | 15 58 | 14 7 | 9 27 | 0 8 |
| T 29 | 23 15 | 20 9 | 2 59 | 21 42 | 1 6 | 15 4 | 0n 7 | 2 33 | 2 5 | 15 16 | 0 55 | 16 0 | 1 8 | 8 53 | 0 33 | 13 33 | 0 34 | 22 31 | 0 2 | 16 27 | 15 59 | 14 6 | 9 27 | 0 8 |
| W30 | 23 11 | 19 43 | 2 1 | 21 58 | 0 58 | 14 44 | 0 17 | 2 43 | 2 6 | 15 17 | 0 56 | 16 2 | 1 9 | 8 53 | 0 33 | 13 33 | 0 34 | 22 31 | 0 2 | 16 28 | 16 0 | 14 4 | 9 26 | 0 8 |
| T 31 | 23s 7 | 18s23 | 0n59 | 22s13 | 0n50 | 14s24 | 0n28 | 2s54 | 2n 6 | 15n19 | 0n56 | 16n 3 | 1n 9 | 8n53 | 0s33 | 13s32 | 0s34 | 22n31 | 0n 2 | 16n29 | 16n 1 | 14s 3 | 9n26 | 0s 8 |

Julian Day Number = 2335732.5, Delta T = 22.03 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'51, Lahiri = 19°25'51Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## JANUARY 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 42 55 | 10♉50'35 | 15♒42 | 20♐33 | 20♒29 | 12♎40 | 21°R12 | 19°R34 | 24°R12 | 25♒39 | 16°R17 | 14°D36 | 16♌ 8 | 24♒45 | 24°R39 | F 1 |
| S 2 | 6 46 52 | 11°51'46 | 27°30 | 21°55 | 20°57 | 13° 7 | 21♌ 7 | 19♌30 | 24°D12 | 25°41 | 16♋16 | 14♌36 | 16° 5 | 24°51 | 24♈39 | S 2 |
| S 3 | 6 50 49 | 12°52'56 | 9♓16 | 23°17 | 21°23 | 13°34 | 21° 2 | 19°27 | 24♈12 | 25°42 | 16°15 | 14°38 | 16° 1 | 24°58 | 24°39 | S 3 |
| M 4 | 6 54 45 | 13°54'06 | 21° 5 | 24°40 | 21°48 | 14° 0 | 20°57 | 19°24 | 24°12 | 25°44 | 16°13 | 14°40 | 15°58 | 25° 5 | 24°D39 | M 4 |
| T 5 | 6 58 42 | 14°55'16 | 3♈ 1 | 26° 5 | 22°11 | 14°27 | 20°52 | 19°20 | 24°12 | 25°46 | 16°12 | 14°42 | 15°55 | 25°11 | 24°39 | T 5 |
| W 6 | 7 2 38 | 15°56'25 | 15° 9 | 27°30 | 22°32 | 14°53 | 20°47 | 19°17 | 24°12 | 25°48 | 16°11 | 14°R42 | 15°52 | 25°18 | 24°39 | W 6 |
| T 7 | 7 6 35 | 16°57'34 | 27°34 | 28°56 | 22°51 | 15°19 | 20°41 | 19°13 | 24°13 | 25°50 | 16° 9 | 14°42 | 15°49 | 25°25 | 24°39 | T 7 |
| F 8 | 7 10 31 | 17°58'42 | 10♉22 | 0♊22 | 23° 8 | 15°45 | 20°36 | 19° 9 | 24°13 | 25°52 | 16° 8 | 14°40 | 15°45 | 25°31 | 24°39 | F 8 |
| S 9 | 7 14 28 | 18°59'49 | 23°34 | 1°50 | 23°23 | 16°11 | 20°30 | 19° 5 | 24°13 | 25°53 | 16° 7 | 14°37 | 15°42 | 25°38 | 24°40 | S 9 |
| S 10 | 7 18 24 | 20° 0'56 | 7♊14 | 3°18 | 23°35 | 16°36 | 20°24 | 19° 1 | 24°14 | 25°55 | 16° 6 | 14°33 | 15°39 | 25°45 | 24°40 | S 10 |
| M11 | 7 22 21 | 21° 2'02 | 21°21 | 4°46 | 23°46 | 17° 1 | 20°18 | 18°57 | 24°14 | 25°57 | 16° 4 | 14°30 | 15°36 | 25°51 | 24°40 | M11 |
| T 12 | 7 26 18 | 22° 3'07 | 5♋52 | 6°16 | 23°54 | 17°26 | 20°12 | 18°53 | 24°15 | 25°59 | 16° 3 | 14°26 | 15°33 | 25°58 | 24°41 | T 12 |
| W13 | 7 30 14 | 23° 4'12 | 20°42 | 7°45 | 23°59 | 17°51 | 20° 6 | 18°49 | 24°15 | 26° 1 | 16° 2 | 14°24 | 15°30 | 26° 5 | 24°41 | W13 |
| T 14 | 7 34 11 | 24° 5'16 | 5♌42 | 9°16 | 24° 3 | 18°15 | 19°59 | 18°45 | 24°16 | 26° 3 | 16° 0 | 14°23 | 15°26 | 26°11 | 24°42 | T 14 |
| F 15 | 7 38 7 | 25° 6'20 | 20°44 | 10°47 | 24°R 4 | 18°39 | 19°53 | 18°41 | 24°16 | 26° 5 | 15°59 | 14°D23 | 15°23 | 26°18 | 24°43 | F 15 |
| S 16 | 7 42 4 | 26° 7'23 | 5♍40 | 12°19 | 24° 2 | 19° 3 | 19°46 | 18°37 | 24°17 | 26° 7 | 15°58 | 14°24 | 15°20 | 26°24 | 24°43 | S 16 |
| S 17 | 7 46 0 | 27° 8'25 | 20°22 | 13°51 | 23°58 | 19°26 | 19°39 | 18°32 | 24°18 | 26° 9 | 15°57 | 14°25 | 15°17 | 26°31 | 24°44 | S 17 |
| M18 | 7 49 57 | 28° 9'27 | 4♎46 | 15°24 | 23°51 | 19°49 | 19°32 | 18°28 | 24°19 | 26°11 | 15°55 | 14°26 | 15°14 | 26°38 | 24°45 | M18 |
| T 19 | 7 53 54 | 29°10'29 | 18°48 | 16°57 | 23°42 | 20°12 | 19°25 | 18°24 | 24°20 | 26°13 | 15°54 | 14°27 | 15°11 | 26°44 | 24°46 | T 19 |
| W20 | 7 57 50 | 0♒11'30 | 2♏29 | 18°31 | 23°31 | 20°35 | 19°18 | 18°19 | 24°20 | 26°15 | 15°53 | 14°R27 | 15° 7 | 26°51 | 24°47 | W20 |
| T 21 | 8 1 47 | 1°12'31 | 15°49 | 20° 6 | 23°17 | 20°57 | 19°11 | 18°15 | 24°21 | 26°18 | 15°52 | 14°27 | 15° 4 | 26°58 | 24°48 | T 21 |
| F 22 | 8 5 43 | 2°13'31 | 28°50 | 21°41 | 23° 0 | 21°19 | 19° 4 | 18°10 | 24°22 | 26°20 | 15°50 | 14°26 | 15° 1 | 27° 4 | 24°49 | F 22 |
| S 23 | 8 9 40 | 3°14'30 | 11♐34 | 23°17 | 22°41 | 21°41 | 18°56 | 18° 5 | 24°23 | 26°22 | 15°49 | 14°24 | 14°58 | 27°11 | 24°50 | S 23 |
| S 24 | 8 13 36 | 4°15'29 | 24° 4 | 24°53 | 22°20 | 22° 2 | 18°49 | 18° 1 | 24°25 | 26°24 | 15°48 | 14°23 | 14°55 | 27°18 | 24°51 | S 24 |
| M25 | 8 17 33 | 5°16'27 | 6♉22 | 26°31 | 21°56 | 22°23 | 18°41 | 17°56 | 24°26 | 26°26 | 15°47 | 14°21 | 14°51 | 27°24 | 24°52 | M25 |
| T 26 | 8 21 29 | 6°17'24 | 18°29 | 28° 8 | 21°31 | 22°44 | 18°34 | 17°51 | 24°27 | 26°28 | 15°46 | 14°20 | 14°48 | 27°31 | 24°53 | T 26 |
| W27 | 8 25 26 | 7°18'20 | 0♒29 | 29°47 | 21° 3 | 23° 4 | 18°26 | 17°47 | 24°28 | 26°30 | 15°44 | 14°19 | 14°45 | 27°38 | 24°55 | W27 |
| T 28 | 8 29 23 | 8°19'15 | 12°22 | 1♒26 | 20°33 | 23°24 | 18°18 | 17°42 | 24°30 | 26°33 | 15°43 | 14°D19 | 14°42 | 27°44 | 24°56 | T 28 |
| F 29 | 8 33 19 | 9°20'09 | 24°12 | 3° 6 | 20° 2 | 23°43 | 18°11 | 17°37 | 24°31 | 26°35 | 15°42 | 14°19 | 14°39 | 27°51 | 24°58 | F 29 |
| S 30 | 8 37 16 | 10°21'01 | 5♓59 | 4°47 | 19°29 | 24° 3 | 18° 3 | 17°32 | 24°32 | 26°37 | 15°41 | 14°20 | 14°36 | 27°58 | 24°59 | S 30 |
| S 31 | 8 41 12 | 11♒21'53 | 17♓47 | 6♒29 | 18♒55 | 24♎21 | 17♌55 | 17♌27 | 24♈34 | 26♒39 | 15♋40 | 14♌20 | 14♌32 | 28♒ 4 | 25♈ 1 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s 2 | 16s15 | 0s 6 | 22s27 | 0n41 | 14s 5 | 0n38 | 3s 4 | 2n 7 | 15n21 | 0n56 | 16n 4 | 1n 9 | 8n53 | 0s33 | 13s31 | 0s34 | 22n31 | 0n 2 | 16n29 | 16n 2 | 14s 1 | 9n26 | 0s 8 |
| S 2 | 22 57 | 13 28 | 1 10 | 22 41 | 0 33 | 13 46 | 0 49 | 3 14 | 2 8 | 15 22 | 0 56 | 16 5 | 1 9 | 8 53 | 0 33 | 13 31 | 0 34 | 22 31 | 0 2 | 16 29 | 16 3 | 14 0 | 9 26 | 0 8 |
| S 3 | 22 51 | 10 8 | 2 11 | 22 54 | 0 25 | 13 26 | 1 1 | 3 24 | 2 8 | 15 24 | 0 57 | 16 6 | 1 9 | 8 53 | 0 33 | 13 30 | 0 34 | 22 32 | 0 2 | 16 28 | 16 4 | 13 59 | 9 26 | 0 9 |
| M 4 | 22 45 | 6 24 | 3 7 | 23 5 | 0 17 | 13 8 | 1 12 | 3 33 | 2 9 | 15 26 | 0 57 | 16 8 | 1 9 | 8 53 | 0 33 | 13 30 | 0 34 | 22 32 | 0 2 | 16 28 | 16 5 | 13 57 | 9 26 | 0 9 |
| T 5 | 22 39 | 2 24 | 3 55 | 23 16 | 0 9 | 12 49 | 1 24 | 3 43 | 2 9 | 15 28 | 0 57 | 16 9 | 1 10 | 8 53 | 0 33 | 13 29 | 0 34 | 22 32 | 0 2 | 16 27 | 16 5 | 13 56 | 9 26 | 0 9 |
| W 6 | 22 32 | 1n46 | 4 34 | 23 26 | 0 1 | 12 31 | 1 36 | 3 53 | 2 10 | 15 30 | 0 57 | 16 10 | 1 10 | 8 53 | 0 33 | 13 28 | 0 34 | 22 32 | 0 3 | 16 27 | 16 6 | 13 54 | 9 26 | 0 9 |
| T 7 | 22 24 | 5 57 | 5 1 | 23 35 | 0s 6 | 12 13 | 1 48 | 4 2 | 2 10 | 15 32 | 0 57 | 16 12 | 1 10 | 8 53 | 0 33 | 13 28 | 0 34 | 22 33 | 0 3 | 16 27 | 16 7 | 13 53 | 9 26 | 0 9 |
| F 8 | 22 16 | 9 59 | 5 14 | 23 42 | 0 14 | 11 55 | 2 1 | 4 12 | 2 11 | 15 34 | 0 58 | 16 13 | 1 10 | 8 53 | 0 33 | 13 27 | 0 34 | 22 33 | 0 3 | 16 28 | 16 8 | 13 51 | 9 26 | 0 9 |
| S 9 | 22 8 | 13 41 | 5 11 | 23 49 | 0 21 | 11 38 | 2 14 | 4 21 | 2 12 | 15 36 | 0 58 | 16 14 | 1 10 | 8 54 | 0 33 | 13 26 | 0 34 | 22 33 | 0 3 | 16 29 | 16 9 | 13 50 | 9 26 | 0 9 |
| S 10 | 21 59 | 16 47 | 4 51 | 23 54 | 0 28 | 11 21 | 2 27 | 4 30 | 2 12 | 15 38 | 0 58 | 16 16 | 1 10 | 8 54 | 0 33 | 13 26 | 0 34 | 22 33 | 0 3 | 16 30 | 16 10 | 13 49 | 9 26 | 0 9 |
| M11 | 21 50 | 19 0 | 4 12 | 23 59 | 0 35 | 11 5 | 2 41 | 4 39 | 2 13 | 15 40 | 0 58 | 16 17 | 1 11 | 8 54 | 0 33 | 13 25 | 0 34 | 22 33 | 0 3 | 16 31 | 16 11 | 13 47 | 9 26 | 0 9 |
| T 12 | 21 40 | 20 4 | 3 17 | 24 2 | 0 42 | 10 50 | 2 55 | 4 48 | 2 13 | 15 42 | 0 59 | 16 18 | 1 11 | 8 54 | 0 33 | 13 24 | 0 34 | 22 34 | 0 3 | 16 32 | 16 12 | 13 46 | 9 26 | 0 9 |
| W13 | 21 30 | 19 47 | 2 7 | 24 3 | 0 48 | 10 35 | 3 9 | 4 57 | 2 14 | 15 44 | 0 59 | 16 20 | 1 11 | 8 54 | 0 33 | 13 24 | 0 34 | 22 34 | 0 3 | 16 32 | 16 13 | 13 44 | 9 26 | 0 9 |
| T 14 | 21 20 | 18 6 | 0 48 | 24 4 | 0 55 | 10 20 | 3 23 | 5 6 | 2 15 | 15 46 | 0 59 | 16 21 | 1 11 | 8 55 | 0 33 | 13 23 | 0 34 | 22 34 | 0 3 | 16 33 | 16 14 | 13 43 | 9 26 | 0 9 |
| F 15 | 21 9 | 15 10 | 0n35 | 24 3 | 1 1 | 10 6 | 3 37 | 5 14 | 2 15 | 15 49 | 0 59 | 16 23 | 1 11 | 8 55 | 0 33 | 13 22 | 0 34 | 22 34 | 0 3 | 16 33 | 16 15 | 13 41 | 9 26 | 0 9 |
| S 16 | 20 58 | 11 14 | 1 55 | 24 1 | 1 7 | 9 53 | 3 52 | 5 23 | 2 16 | 15 51 | 0 59 | 16 24 | 1 11 | 8 55 | 0 33 | 13 22 | 0 34 | 22 34 | 0 3 | 16 32 | 16 16 | 13 40 | 9 27 | 0 10 |
| S 17 | 20 46 | 6 41 | 3 6 | 23 57 | 1 12 | 9 40 | 4 7 | 5 31 | 2 16 | 15 53 | 1 0 | 16 26 | 1 12 | 8 56 | 0 33 | 13 21 | 0 34 | 22 35 | 0 3 | 16 32 | 16 17 | 13 38 | 9 27 | 0 10 |
| M18 | 20 34 | 1 51 | 4 4 | 23 53 | 1 18 | 9 29 | 4 21 | 5 39 | 2 17 | 15 56 | 1 0 | 16 27 | 1 12 | 8 56 | 0 33 | 13 20 | 0 34 | 22 35 | 0 3 | 16 32 | 16 18 | 13 37 | 9 27 | 0 10 |
| T 19 | 20 21 | 2s58 | 4 46 | 23 47 | 1 23 | 9 18 | 4 36 | 5 47 | 2 18 | 15 58 | 1 0 | 16 29 | 1 12 | 8 56 | 0 33 | 13 20 | 0 34 | 22 35 | 0 3 | 16 31 | 16 19 | 13 36 | 9 27 | 0 10 |
| W20 | 20 9 | 7 30 | 5 10 | 23 39 | 1 28 | 9 8 | 4 51 | 5 55 | 2 18 | 16 0 | 1 0 | 16 30 | 1 12 | 8 57 | 0 33 | 13 19 | 0 34 | 22 35 | 0 3 | 16 31 | 16 20 | 13 34 | 9 28 | 0 10 |
| T 21 | 19 55 | 11 32 | 5 17 | 23 30 | 1 33 | 8 58 | 5 5 | 6 3 | 2 19 | 16 3 | 1 0 | 16 32 | 1 12 | 8 57 | 0 33 | 13 18 | 0 34 | 22 36 | 0 4 | 16 31 | 16 21 | 13 33 | 9 28 | 0 10 |
| F 22 | 19 42 | 14 56 | 5 7 | 23 20 | 1 37 | 8 50 | 5 20 | 6 11 | 2 19 | 16 5 | 1 0 | 16 33 | 1 12 | 8 57 | 0 33 | 13 17 | 0 34 | 22 36 | 0 4 | 16 32 | 16 21 | 13 31 | 9 28 | 0 10 |
| S 23 | 19 28 | 17 33 | 4 42 | 23 8 | 1 41 | 8 42 | 5 34 | 6 18 | 2 20 | 16 8 | 1 1 | 16 35 | 1 12 | 8 58 | 0 33 | 13 17 | 0 34 | 22 36 | 0 4 | 16 32 | 16 22 | 13 30 | 9 28 | 0 10 |
| S 24 | 19 14 | 19 17 | 4 4 | 22 54 | 1 45 | 8 35 | 5 49 | 6 25 | 2 20 | 16 10 | 1 1 | 16 36 | 1 13 | 8 58 | 0 33 | 13 16 | 0 34 | 22 36 | 0 4 | 16 33 | 16 23 | 13 28 | 9 29 | 0 10 |
| M25 | 18 59 | 20 4 | 3 16 | 22 40 | 1 48 | 8 30 | 6 2 | 6 33 | 2 21 | 16 13 | 1 1 | 16 38 | 1 13 | 8 59 | 0 33 | 13 15 | 0 34 | 22 36 | 0 4 | 16 33 | 16 24 | 13 27 | 9 29 | 0 10 |
| T 26 | 18 44 | 19 55 | 2 19 | 22 23 | 1 52 | 8 25 | 6 16 | 6 40 | 2 22 | 16 15 | 1 1 | 16 40 | 1 13 | 8 59 | 0 33 | 13 15 | 0 34 | 22 37 | 0 4 | 16 33 | 16 25 | 13 25 | 9 30 | 0 10 |
| W27 | 18 29 | 18 50 | 1 16 | 22 6 | 1 55 | 8 21 | 6 29 | 6 47 | 2 22 | 16 18 | 1 1 | 16 41 | 1 13 | 9 0 | 0 32 | 13 14 | 0 34 | 22 37 | 0 4 | 16 34 | 16 26 | 13 24 | 9 30 | 0 10 |
| T 28 | 18 13 | 16 57 | 0 11 | 21 47 | 1 57 | 8 18 | 6 42 | 6 53 | 2 23 | 16 20 | 1 1 | 16 43 | 1 13 | 9 0 | 0 32 | 13 13 | 0 34 | 22 37 | 0 4 | 16 34 | 16 27 | 13 22 | 9 31 | 0 10 |
| F 29 | 17 57 | 14 20 | 0s55 | 21 26 | 1 59 | 8 16 | 6 54 | 7 0 | 2 23 | 16 23 | 1 1 | 16 44 | 1 13 | 9 1 | 0 32 | 13 12 | 0 34 | 22 37 | 0 4 | 16 34 | 16 28 | 13 21 | 9 31 | 0 10 |
| S 30 | 17 41 | 11 9 | 1 58 | 21 4 | 2 1 | 8 15 | 7 6 | 7 7 | 2 24 | 16 25 | 1 2 | 16 46 | 1 13 | 9 1 | 0 32 | 13 12 | 0 34 | 22 37 | 0 4 | 16 34 | 16 29 | 13 19 | 9 31 | 0 11 |
| S 31 | 17s24 | 7s32 | 2s56 | 20s40 | 2s 3 | 8s15 | 7n17 | 7s13 | 2n25 | 16n28 | 1n 2 | 16n48 | 1n13 | 9n 2 | 0s32 | 13s11 | 0s34 | 22n38 | 0n 4 | 16n33 | 16n30 | 13s18 | 9n32 | 0s11 |

Julian Day Number = 2335763.5, Delta T = 21.99 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°18'55, Lahiri = 19°25'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## FEBRUARY 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 45 9 | 12♒22'42 | 29♓38 | 8♒11 | 18°R20 | 24♎40 | 17°R47 | 17°R23 | 24♈35 | 26♒41 | 15°R39 | 14♌20 | 14♌29 | 28♒11 | 25♈ 2 | M 1 |
| T 2 | 8 49 5 | 13°23'31 | 11♈35 | 9°54 | 17♒44 | 24°58 | 17♌39 | 17♌18 | 24°37 | 26°44 | 15♋37 | 14°21 | 14°26 | 28°17 | 25° 4 | T 2 |
| W 3 | 8 53 2 | 14°24'18 | 23°44 | 11°38 | 17° 7 | 25°15 | 17°31 | 17°13 | 24°38 | 26°46 | 15°36 | 14°R21 | 14°23 | 28°24 | 25° 6 | W 3 |
| T 4 | 8 56 58 | 15°25'04 | 6♉ 7 | 13°22 | 16°30 | 25°32 | 17°23 | 17° 8 | 24°40 | 26°48 | 15°35 | 14°21 | 14°20 | 28°31 | 25° 7 | T 4 |
| F 5 | 9 0 55 | 16°25'47 | 18°49 | 15° 8 | 15°52 | 25°49 | 17°15 | 17° 3 | 24°42 | 26°50 | 15°34 | 14°D21 | 14°17 | 28°37 | 25° 9 | F 5 |
| S 6 | 9 4 51 | 17°26'30 | 1♊53 | 16°54 | 15°15 | 26° 5 | 17° 7 | 16°58 | 24°43 | 26°53 | 15°33 | 14°21 | 14°13 | 28°44 | 25°11 | S 6 |
| S 7 | 9 8 48 | 18°27'11 | 15°23 | 18°41 | 14°38 | 26°21 | 17° 0 | 16°53 | 24°45 | 26°55 | 15°32 | 14°21 | 14°10 | 28°51 | 25°13 | S 7 |
| M 8 | 9 12 45 | 19°27'50 | 29°20 | 20°28 | 14° 2 | 26°36 | 16°52 | 16°48 | 24°47 | 26°57 | 15°31 | 14°21 | 14° 7 | 28°57 | 25°15 | M 8 |
| T 9 | 9 16 41 | 20°28'27 | 13♋44 | 22°17 | 13°27 | 26°51 | 16°44 | 16°43 | 24°49 | 26°59 | 15°30 | 14°22 | 14° 4 | 29° 4 | 25°17 | T 9 |
| W10 | 9 20 38 | 21°29'03 | 28°32 | 24° 6 | 12°52 | 27° 5 | 16°36 | 16°39 | 24°51 | 27° 2 | 15°29 | 14°22 | 14° 1 | 29°11 | 25°19 | W10 |
| T 11 | 9 24 34 | 22°29'37 | 13♌37 | 25°56 | 12°19 | 27°19 | 16°28 | 16°34 | 24°53 | 27° 4 | 15°28 | 14°R23 | 13°57 | 29°17 | 25°21 | T 11 |
| F 12 | 9 28 31 | 23°30'10 | 28°51 | 27°46 | 11°48 | 27°33 | 16°20 | 16°29 | 24°55 | 27° 6 | 15°27 | 14°22 | 13°54 | 29°24 | 25°24 | F 12 |
| S 13 | 9 32 27 | 24°30'40 | 14♍ 4 | 29°37 | 11°18 | 27°45 | 16°12 | 16°24 | 24°57 | 27° 9 | 15°26 | 14°22 | 13°51 | 29°31 | 25°26 | S 13 |
| S 14 | 9 36 24 | 25°31'10 | 29° 6 | 1♓29 | 10°51 | 27°58 | 16° 4 | 16°19 | 24°59 | 27°11 | 15°25 | 14°20 | 13°48 | 29°37 | 25°28 | S 14 |
| M15 | 9 40 20 | 26°31'38 | 13♎50 | 3°21 | 10°25 | 28°10 | 15°57 | 16°15 | 25° 1 | 27°13 | 15°24 | 14°19 | 13°45 | 29°44 | 25°30 | M15 |
| T 16 | 9 44 17 | 27°32'05 | 28° 9 | 5°13 | 10° 2 | 28°21 | 15°49 | 16°10 | 25° 3 | 27°15 | 15°23 | 14°17 | 13°42 | 29°51 | 25°33 | T 16 |
| W17 | 9 48 14 | 28°32'30 | 12♏ 2 | 7° 5 | 9°40 | 28°32 | 15°41 | 16° 5 | 25° 5 | 27°18 | 15°22 | 14°16 | 13°38 | 29°57 | 25°35 | W17 |
| T 18 | 9 52 10 | 29°32'54 | 25°27 | 8°57 | 9°21 | 28°42 | 15°34 | 16° 0 | 25° 8 | 27°20 | 15°21 | 14°D16 | 13°35 | 0♓ 4 | 25°38 | T 18 |
| F 19 | 9 56 7 | 0♓33'17 | 8♐27 | 10°49 | 9° 5 | 28°51 | 15°26 | 15°56 | 25°10 | 27°22 | 15°21 | 14°16 | 13°32 | 0°11 | 25°40 | F 19 |
| S 20 | 10 0 3 | 1°33'38 | 21° 6 | 12°40 | 8°51 | 29° 0 | 15°19 | 15°51 | 25°12 | 27°24 | 15°20 | 14°17 | 13°29 | 0°17 | 25°43 | S 20 |
| S 21 | 10 4 0 | 2°33'58 | 3♑27 | 14°31 | 8°39 | 29° 9 | 15°12 | 15°47 | 25°15 | 27°27 | 15°19 | 14°18 | 13°26 | 0°24 | 25°45 | S 21 |
| M22 | 10 7 56 | 3°34'17 | 15°34 | 16°20 | 8°30 | 29°16 | 15° 4 | 15°42 | 25°17 | 27°29 | 15°18 | 14°20 | 13°23 | 0°30 | 25°48 | M22 |
| T 23 | 10 11 53 | 4°34'33 | 27°31 | 18° 7 | 8°24 | 29°23 | 14°57 | 15°38 | 25°19 | 27°31 | 15°17 | 14°21 | 13°19 | 0°37 | 25°51 | T 23 |
| W24 | 10 15 49 | 5°34'49 | 9♒22 | 19°53 | 8°20 | 29°30 | 14°50 | 15°33 | 25°22 | 27°34 | 15°17 | 14°R22 | 13°16 | 0°44 | 25°53 | W24 |
| T 25 | 10 19 46 | 6°35'02 | 21°10 | 21°36 | 8°D18 | 29°36 | 14°43 | 15°29 | 25°24 | 27°36 | 15°16 | 14°22 | 13°13 | 0°50 | 25°56 | T 25 |
| F 26 | 10 23 43 | 7°35'14 | 2♓57 | 23°16 | 8°19 | 29°41 | 14°36 | 15°24 | 25°27 | 27°38 | 15°15 | 14°21 | 13°10 | 0°57 | 25°59 | F 26 |
| S 27 | 10 27 39 | 8°35'24 | 14°46 | 24°53 | 8°22 | 29°45 | 14°30 | 15°20 | 25°30 | 27°40 | 15°14 | 14°18 | 13° 7 | 1° 4 | 26° 2 | S 27 |
| S 28 | 10 31 36 | 9♓35'32 | 26♓38 | 26♓25 | 8♒27 | 29♎49 | 14♌23 | 15♌16 | 25♈32 | 27♒43 | 15♋14 | 14♌14 | 13♌ 3 | 1♓10 | 26♈ 5 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s 7 | 3s37 | 3s46 | 20s15 | 2s 4 | 8s16 | 7n27 | 7s19 | 2n25 | 16n30 | 1n 2 | 16n49 | 1n13 | 9n 2 | 0s32 | 13s10 | 0s34 | 22n38 | 0n 4 | 16n33 | 16n31 | 13s16 | 9n32 | 0s11 |
| T 2 | 16 50 | 0n29 | 4 28 | 19 48 | 2 4 | 8 18 | 7 36 | 7 25 | 2 26 | 16 33 | 1 2 | 16 51 | 1 14 | 9 3 | 0 32 | 13 9 | 0 34 | 22 38 | 0 4 | 16 33 | 16 32 | 13 15 | 9 33 | 0 11 |
| W 3 | 16 32 | 4 37 | 4 58 | 19 19 | 2 5 | 8 20 | 7 45 | 7 31 | 2 26 | 16 36 | 1 2 | 16 52 | 1 14 | 9 4 | 0 32 | 13 9 | 0 34 | 22 38 | 0 4 | 16 33 | 16 33 | 13 13 | 9 34 | 0 11 |
| T 4 | 16 14 | 8 37 | 5 15 | 18 49 | 2 5 | 8 24 | 7 53 | 7 37 | 2 27 | 16 38 | 1 2 | 16 54 | 1 14 | 9 4 | 0 32 | 13 8 | 0 34 | 22 38 | 0 4 | 16 33 | 16 34 | 13 12 | 9 34 | 0 11 |
| F 5 | 15 56 | 12 22 | 5 17 | 18 18 | 2 4 | 8 28 | 7 59 | 7 42 | 2 27 | 16 41 | 1 2 | 16 55 | 1 14 | 9 5 | 0 32 | 13 7 | 0 34 | 22 39 | 0 4 | 16 33 | 16 34 | 13 10 | 9 35 | 0 11 |
| S 6 | 15 38 | 15 37 | 5 3 | 17 45 | 2 3 | 8 33 | 8 5 | 7 47 | 2 28 | 16 43 | 1 2 | 16 57 | 1 14 | 9 6 | 0 32 | 13 6 | 0 34 | 22 39 | 0 5 | 16 33 | 16 35 | 13 9 | 9 35 | 0 11 |
| S 7 | 15 19 | 18 9 | 4 33 | 17 10 | 2 1 | 8 39 | 8 10 | 7 53 | 2 28 | 16 46 | 1 3 | 16 59 | 1 14 | 9 6 | 0 32 | 13 6 | 0 34 | 22 39 | 0 5 | 16 33 | 16 36 | 13 7 | 9 36 | 0 11 |
| M 8 | 15 0 | 19 43 | 3 45 | 16 34 | 1 59 | 8 45 | 8 14 | 7 58 | 2 29 | 16 48 | 1 3 | 17 0 | 1 14 | 9 7 | 0 32 | 13 5 | 0 34 | 22 39 | 0 5 | 16 33 | 16 37 | 13 6 | 9 37 | 0 11 |
| T 9 | 14 41 | 20 5 | 2 42 | 15 57 | 1 57 | 8 52 | 8 17 | 8 2 | 2 30 | 16 51 | 1 3 | 17 2 | 1 14 | 9 8 | 0 32 | 13 4 | 0 34 | 22 39 | 0 5 | 16 33 | 16 38 | 13 4 | 9 37 | 0 11 |
| W10 | 14 22 | 19 4 | 1 27 | 15 18 | 1 54 | 8 59 | 8 20 | 8 7 | 2 30 | 16 53 | 1 3 | 17 3 | 1 14 | 9 8 | 0 32 | 13 3 | 0 34 | 22 39 | 0 5 | 16 33 | 16 39 | 13 3 | 9 38 | 0 11 |
| T 11 | 14 2 | 16 42 | 0 4 | 14 37 | 1 50 | 9 7 | 8 21 | 8 12 | 2 31 | 16 56 | 1 3 | 17 5 | 1 14 | 9 9 | 0 32 | 13 2 | 0 34 | 22 40 | 0 5 | 16 33 | 16 40 | 13 1 | 9 39 | 0 11 |
| F 12 | 13 42 | 13 8 | 1n20 | 13 55 | 1 46 | 9 15 | 8 21 | 8 16 | 2 31 | 16 58 | 1 3 | 17 6 | 1 15 | 9 10 | 0 32 | 13 2 | 0 34 | 22 40 | 0 5 | 16 33 | 16 41 | 12 59 | 9 40 | 0 11 |
| S 13 | 13 22 | 8 42 | 2 38 | 13 12 | 1 41 | 9 23 | 8 21 | 8 20 | 2 32 | 17 1 | 1 3 | 17 8 | 1 15 | 9 11 | 0 32 | 13 1 | 0 34 | 22 40 | 0 5 | 16 33 | 16 42 | 12 58 | 9 40 | 0 12 |
| S 14 | 13 2 | 3 47 | 3 44 | 12 27 | 1 36 | 9 32 | 8 19 | 8 24 | 2 32 | 17 3 | 1 3 | 17 9 | 1 15 | 9 12 | 0 32 | 13 0 | 0 34 | 22 40 | 0 5 | 16 33 | 16 43 | 12 56 | 9 41 | 0 12 |
| M15 | 12 42 | 1s16 | 4 34 | 11 42 | 1 30 | 9 40 | 8 17 | 8 28 | 2 33 | 17 5 | 1 3 | 17 11 | 1 15 | 9 12 | 0 32 | 12 59 | 0 34 | 22 40 | 0 5 | 16 34 | 16 44 | 12 55 | 9 42 | 0 12 |
| T 16 | 12 21 | 6 5 | 5 5 | 10 54 | 1 23 | 9 49 | 8 14 | 8 31 | 2 33 | 17 8 | 1 3 | 17 12 | 1 15 | 9 13 | 0 32 | 12 59 | 0 34 | 22 41 | 0 5 | 16 34 | 16 45 | 12 53 | 9 43 | 0 12 |
| W17 | 12 0 | 10 26 | 5 17 | 10 6 | 1 16 | 9 59 | 8 10 | 8 35 | 2 34 | 17 10 | 1 3 | 17 14 | 1 15 | 9 14 | 0 32 | 12 58 | 0 34 | 22 41 | 0 5 | 16 35 | 16 45 | 12 52 | 9 43 | 0 12 |
| T 18 | 11 39 | 14 7 | 5 11 | 9 17 | 1 8 | 10 8 | 8 6 | 8 38 | 2 34 | 17 12 | 1 3 | 17 15 | 1 15 | 9 15 | 0 32 | 12 57 | 0 34 | 22 41 | 0 5 | 16 35 | 16 46 | 12 50 | 9 44 | 0 12 |
| F 19 | 11 18 | 16 59 | 4 49 | 8 27 | 1 0 | 10 17 | 8 1 | 8 41 | 2 34 | 17 15 | 1 3 | 17 17 | 1 15 | 9 16 | 0 32 | 12 56 | 0 34 | 22 41 | 0 5 | 16 35 | 16 47 | 12 49 | 9 45 | 0 12 |
| S 20 | 10 56 | 18 57 | 4 14 | 7 36 | 0 51 | 10 26 | 7 55 | 8 43 | 2 35 | 17 17 | 1 3 | 17 18 | 1 15 | 9 17 | 0 32 | 12 55 | 0 34 | 22 41 | 0 5 | 16 34 | 16 48 | 12 47 | 9 46 | 0 12 |
| S 21 | 10 35 | 19 58 | 3 28 | 6 44 | 0 41 | 10 34 | 7 49 | 8 46 | 2 35 | 17 19 | 1 3 | 17 20 | 1 15 | 9 17 | 0 32 | 12 55 | 0 34 | 22 41 | 0 5 | 16 34 | 16 49 | 12 45 | 9 47 | 0 12 |
| M22 | 10 13 | 20 2 | 2 33 | 5 52 | 0 30 | 10 43 | 7 42 | 8 48 | 2 36 | 17 21 | 1 3 | 17 21 | 1 15 | 9 18 | 0 32 | 12 54 | 0 34 | 22 41 | 0 6 | 16 34 | 16 50 | 12 44 | 9 48 | 0 12 |
| T 23 | 9 51 | 19 11 | 1 32 | 5 0 | 0 19 | 10 52 | 7 35 | 8 51 | 2 36 | 17 23 | 1 4 | 17 22 | 1 15 | 9 19 | 0 32 | 12 53 | 0 34 | 22 42 | 0 6 | 16 33 | 16 51 | 12 42 | 9 49 | 0 12 |
| W24 | 9 29 | 17 30 | 0 28 | 4 8 | 0 8 | 11 0 | 7 28 | 8 53 | 2 36 | 17 25 | 1 4 | 17 24 | 1 15 | 9 20 | 0 32 | 12 52 | 0 34 | 22 42 | 0 6 | 16 33 | 16 52 | 12 41 | 9 50 | 0 12 |
| T 25 | 9 7 | 15 4 | 0s37 | 3 16 | 0n 5 | 11 8 | 7 20 | 8 54 | 2 37 | 17 27 | 1 4 | 17 25 | 1 15 | 9 21 | 0 32 | 12 52 | 0 34 | 22 42 | 0 6 | 16 33 | 16 53 | 12 39 | 9 51 | 0 12 |
| F 26 | 8 44 | 12 0 | 1 41 | 2 25 | 0 17 | 11 15 | 7 12 | 8 56 | 2 37 | 17 29 | 1 4 | 17 27 | 1 15 | 9 22 | 0 32 | 12 51 | 0 34 | 22 42 | 0 6 | 16 33 | 16 54 | 12 38 | 9 52 | 0 12 |
| S 27 | 8 22 | 8 28 | 2 40 | 1 35 | 0 30 | 11 23 | 7 3 | 8 57 | 2 37 | 17 31 | 1 4 | 17 28 | 1 15 | 9 23 | 0 32 | 12 50 | 0 34 | 22 42 | 0 6 | 16 34 | 16 55 | 12 36 | 9 52 | 0 13 |
| S 28 | 7s59 | 4s35 | 3s32 | 0s46 | 0n44 | 11s30 | 6n55 | 8s58 | 2n38 | 17n33 | 1n 4 | 17n29 | 1n15 | 9n24 | 0s32 | 12s49 | 0s34 | 22n42 | 0n 6 | 16n35 | 16n55 | 12s34 | 9n53 | 0s13 |

Julian Day Number = 2335794.5, Delta T = 21.94 sec
Ecliptic obliquity = 23°28'43, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'00, Lahiri = 19°26'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## MARCH 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 35 32 | 10♓35'38 | 8♈36 | 27♓53 | 8♒35 | 29♎52 | 14°R17 | 15°R12 | 25♈35 | 27♒45 | 15°R13 | 14°R10 | 13♌ 0 | 1♓17 | 26♈ 8 | M 1 |
| T 2 | 10 39 29 | 11°35'42 | 20°41 | 29°16 | 8°45 | 29°55 | 14♌10 | 15♌ 8 | 25°37 | 27°47 | 15♋12 | 14♌ 5 | 12°57 | 1°24 | 26°11 | T 2 |
| W 3 | 10 43 25 | 12°35'44 | 2♉56 | 0♈33 | 8°57 | 29°56 | 14° 4 | 15° 3 | 25°40 | 27°49 | 15°12 | 14° 0 | 12°54 | 1°30 | 26°14 | W 3 |
| T 4 | 10 47 22 | 13°35'44 | 15°23 | 1°43 | 9°11 | 29°57 | 13°58 | 14°59 | 25°43 | 27°51 | 15°11 | 13°56 | 12°51 | 1°37 | 26°17 | T 4 |
| F 5 | 10 51 18 | 14°35'41 | 28° 5 | 2°47 | 9°27 | 29°R58 | 13°52 | 14°56 | 25°46 | 27°54 | 15°11 | 13°54 | 12°48 | 1°44 | 26°20 | F 5 |
| S 6 | 10 55 15 | 15°35'37 | 11♊ 5 | 3°44 | 9°46 | 29°57 | 13°46 | 14°52 | 25°48 | 27°56 | 15°10 | 13°D53 | 12°44 | 1°50 | 26°23 | S 6 |
| S 7 | 10 59 12 | 16°35'30 | 24°26 | 4°33 | 10° 6 | 29°56 | 13°40 | 14°48 | 25°51 | 27°58 | 15°10 | 13°53 | 12°41 | 1°57 | 26°26 | S 7 |
| M 8 | 11 3 8 | 17°35'22 | 8♋11 | 5°14 | 10°28 | 29°54 | 13°35 | 14°44 | 25°54 | 28° 0 | 15° 9 | 13°54 | 12°38 | 2° 4 | 26°29 | M 8 |
| T 9 | 11 7 5 | 18°35'11 | 22°19 | 5°47 | 10°51 | 29°51 | 13°29 | 14°41 | 25°57 | 28° 2 | 15° 9 | 13°55 | 12°35 | 2°10 | 26°32 | T 9 |
| W10 | 11 11 1 | 19°34'57 | 6♌51 | 6°11 | 11°17 | 29°48 | 13°24 | 14°37 | 26° 0 | 28° 5 | 15° 8 | 13°R56 | 12°32 | 2°17 | 26°36 | W10 |
| T 11 | 11 14 58 | 20°34'42 | 21°43 | 6°27 | 11°44 | 29°44 | 13°19 | 14°34 | 26° 3 | 28° 7 | 15° 8 | 13°56 | 12°28 | 2°24 | 26°39 | T 11 |
| F 12 | 11 18 54 | 21°34'24 | 6♍50 | 6°R34 | 12°13 | 29°39 | 13°14 | 14°30 | 26° 6 | 28° 9 | 15° 7 | 13°55 | 12°25 | 2°30 | 26°42 | F 12 |
| S 13 | 11 22 51 | 22°34'04 | 22° 2 | 6°33 | 12°43 | 29°33 | 13° 9 | 14°27 | 26° 9 | 28°11 | 15° 7 | 13°51 | 12°22 | 2°37 | 26°46 | S 13 |
| S 14 | 11 26 47 | 23°33'42 | 7♎10 | 6°24 | 13°15 | 29°27 | 13° 5 | 14°24 | 26°12 | 28°13 | 15° 6 | 13°46 | 12°19 | 2°44 | 26°49 | S 14 |
| M15 | 11 30 44 | 24°33'18 | 22° 3 | 6° 7 | 13°48 | 29°19 | 13° 0 | 14°20 | 26°15 | 28°15 | 15° 6 | 13°40 | 12°16 | 2°50 | 26°52 | M15 |
| T 16 | 11 34 41 | 25°32'52 | 6♏34 | 5°42 | 14°22 | 29°11 | 12°56 | 14°17 | 26°18 | 28°17 | 15° 6 | 13°33 | 12°13 | 2°57 | 26°56 | T 16 |
| W17 | 11 38 37 | 26°32'25 | 20°38 | 5°11 | 14°58 | 29° 2 | 12°52 | 14°14 | 26°21 | 28°19 | 15° 6 | 13°28 | 12° 9 | 3° 3 | 26°59 | W17 |
| T 18 | 11 42 34 | 27°31'55 | 4♐13 | 4°34 | 15°35 | 28°53 | 12°48 | 14°12 | 26°24 | 28°21 | 15° 5 | 13°23 | 12° 6 | 3°10 | 27° 3 | T 18 |
| F 19 | 11 46 30 | 28°31'24 | 17°20 | 3°52 | 16°14 | 28°43 | 12°44 | 14° 9 | 26°27 | 28°23 | 15° 5 | 13°21 | 12° 3 | 3°17 | 27° 6 | F 19 |
| S 20 | 11 50 27 | 29°30'51 | 0♑ 1 | 3° 6 | 16°53 | 28°31 | 12°40 | 14° 6 | 26°30 | 28°25 | 15° 5 | 13°D20 | 12° 0 | 3°23 | 27°10 | S 20 |
| S 21 | 11 54 23 | 0♈30'17 | 12°21 | 2°17 | 17°34 | 28°20 | 12°37 | 14° 3 | 26°34 | 28°27 | 15° 5 | 13°21 | 11°57 | 3°30 | 27°13 | S 21 |
| M22 | 11 58 20 | 1°29'41 | 24°25 | 1°26 | 18°16 | 28° 7 | 12°34 | 14° 1 | 26°37 | 28°29 | 15° 4 | 13°22 | 11°54 | 3°37 | 27°17 | M22 |
| T 23 | 12 2 16 | 2°29'02 | 6♒19 | 0°34 | 18°59 | 27°54 | 12°31 | 13°59 | 26°40 | 28°31 | 15° 4 | 13°23 | 11°50 | 3°43 | 27°20 | T 23 |
| W24 | 12 6 13 | 3°28'22 | 18° 7 | 29♓43 | 19°42 | 27°40 | 12°28 | 13°56 | 26°43 | 28°33 | 15° 4 | 13°R23 | 11°47 | 3°50 | 27°24 | W24 |
| T 25 | 12 10 9 | 4°27'40 | 29°53 | 28°52 | 20°27 | 27°25 | 12°25 | 13°54 | 26°46 | 28°35 | 15° 4 | 13°22 | 11°44 | 3°57 | 27°28 | T 25 |
| F 26 | 12 14 6 | 5°26'56 | 11♓41 | 28° 4 | 21°13 | 27° 9 | 12°23 | 13°52 | 26°50 | 28°37 | 15° 4 | 13°18 | 11°41 | 4° 3 | 27°31 | F 26 |
| S 27 | 12 18 3 | 6°26'11 | 23°33 | 27°18 | 21°59 | 26°53 | 12°20 | 13°50 | 26°53 | 28°39 | 15° 4 | 13°11 | 11°38 | 4°10 | 27°35 | S 27 |
| S 28 | 12 21 59 | 7°25'23 | 5♈33 | 26°36 | 22°47 | 26°36 | 12°18 | 13°48 | 26°56 | 28°41 | 15° 4 | 13° 3 | 11°34 | 4°17 | 27°39 | S 28 |
| M29 | 12 25 56 | 8°24'33 | 17°41 | 25°59 | 23°35 | 26°19 | 12°16 | 13°46 | 27° 0 | 28°43 | 15°D 4 | 12°53 | 11°31 | 4°23 | 27°42 | M29 |
| T 30 | 12 29 52 | 9°23'41 | 29°59 | 25°26 | 24°24 | 26° 1 | 12°14 | 13°44 | 27° 3 | 28°45 | 15° 4 | 12°42 | 11°28 | 4°30 | 27°46 | T 30 |
| W31 | 12 33 49 | 10♈22'47 | 12♉28 | 24♓58 | 25♒13 | 25♎42 | 12♌13 | 13♌43 | 27♈ 6 | 28♒47 | 15♋ 4 | 12♌32 | 11♌25 | 4♓37 | 27♈50 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 7s36 | 0s30 | 4s15 | 0n 2 | 0n57 | 11s36 | 6n46 | 8s59 | 2n38 | 17n35 | 1n 4 | 17n30 | 1n15 | 9n25 | 0s31 | 12s49 | 0s34 | 22n42 | 0n 6 | 16n36 | 16n56 | 12s33 | 9n54 | 0s13 |
| T 2 | 7 14 | 3n39 | 4 48 | 0 48 | 1 11 | 11 43 | 6 37 | 9 0 | 2 38 | 17 37 | 1 4 | 17 32 | 1 15 | 9 26 | 0 31 | 12 48 | 0 34 | 22 43 | 0 6 | 16 38 | 16 57 | 12 31 | 9 55 | 0 13 |
| W 3 | 6 51 | 7 41 | 5 8 | 1 31 | 1 25 | 11 48 | 6 28 | 9 0 | 2 38 | 17 39 | 1 4 | 17 33 | 1 15 | 9 27 | 0 31 | 12 47 | 0 34 | 22 43 | 0 6 | 16 39 | 16 58 | 12 30 | 9 57 | 0 13 |
| T 4 | 6 28 | 11 29 | 5 13 | 2 12 | 1 39 | 11 54 | 6 18 | 9 0 | 2 38 | 17 41 | 1 4 | 17 34 | 1 16 | 9 28 | 0 31 | 12 46 | 0 34 | 22 43 | 0 6 | 16 40 | 16 59 | 12 28 | 9 58 | 0 13 |
| F 5 | 6 5 | 14 50 | 5 4 | 2 50 | 1 52 | 11 59 | 6 9 | 9 0 | 2 38 | 17 42 | 1 4 | 17 35 | 1 16 | 9 29 | 0 31 | 12 46 | 0 34 | 22 43 | 0 6 | 16 41 | 17 0 | 12 26 | 9 59 | 0 13 |
| S 6 | 5 41 | 17 32 | 4 39 | 3 25 | 2 6 | 12 3 | 5 59 | 9 0 | 2 39 | 17 44 | 1 4 | 17 36 | 1 16 | 9 30 | 0 31 | 12 45 | 0 34 | 22 43 | 0 6 | 16 41 | 17 1 | 12 25 | 10 0 | 0 13 |
| S 7 | 5 18 | 19 24 | 3 58 | 3 56 | 2 19 | 12 7 | 5 50 | 8 59 | 2 39 | 17 46 | 1 3 | 17 38 | 1 16 | 9 31 | 0 31 | 12 44 | 0 34 | 22 43 | 0 6 | 16 41 | 17 2 | 12 23 | 10 1 | 0 13 |
| M 8 | 4 55 | 20 11 | 3 3 | 4 24 | 2 31 | 12 11 | 5 40 | 8 59 | 2 39 | 17 47 | 1 3 | 17 39 | 1 16 | 9 32 | 0 31 | 12 43 | 0 34 | 22 43 | 0 6 | 16 41 | 17 3 | 12 22 | 10 2 | 0 13 |
| T 9 | 4 31 | 19 44 | 1 56 | 4 47 | 2 43 | 12 14 | 5 31 | 8 58 | 2 39 | 17 49 | 1 3 | 17 40 | 1 16 | 9 33 | 0 31 | 12 43 | 0 34 | 22 43 | 0 6 | 16 41 | 17 4 | 12 20 | 10 3 | 0 13 |
| W10 | 4 8 | 17 58 | 0 39 | 5 7 | 2 54 | 12 16 | 5 21 | 8 57 | 2 39 | 17 50 | 1 3 | 17 41 | 1 16 | 9 34 | 0 31 | 12 42 | 0 34 | 22 44 | 0 7 | 16 40 | 17 4 | 12 18 | 10 4 | 0 13 |
| T 11 | 3 44 | 14 57 | 0n42 | 5 22 | 3 3 | 12 18 | 5 11 | 8 55 | 2 39 | 17 52 | 1 3 | 17 42 | 1 16 | 9 35 | 0 31 | 12 41 | 0 34 | 22 44 | 0 7 | 16 40 | 17 5 | 12 17 | 10 5 | 0 13 |
| F 12 | 3 21 | 10 54 | 2 2 | 5 33 | 3 12 | 12 20 | 5 2 | 8 54 | 2 38 | 17 53 | 1 3 | 17 43 | 1 16 | 9 37 | 0 31 | 12 40 | 0 34 | 22 44 | 0 7 | 16 41 | 17 6 | 12 15 | 10 6 | 0 13 |
| S 13 | 2 57 | 6 7 | 3 13 | 5 39 | 3 19 | 12 21 | 4 52 | 8 52 | 2 38 | 17 54 | 1 3 | 17 44 | 1 16 | 9 38 | 0 31 | 12 40 | 0 34 | 22 44 | 0 7 | 16 42 | 17 7 | 12 13 | 10 7 | 0 14 |
| S 14 | 2 34 | 0 58 | 4 10 | 5 41 | 3 25 | 12 21 | 4 42 | 8 50 | 2 38 | 17 56 | 1 3 | 17 45 | 1 16 | 9 39 | 0 31 | 12 39 | 0 34 | 22 44 | 0 7 | 16 43 | 17 8 | 12 12 | 10 9 | 0 14 |
| M15 | 2 10 | 4s 8 | 4 49 | 5 38 | 3 29 | 12 21 | 4 33 | 8 47 | 2 38 | 17 57 | 1 3 | 17 46 | 1 16 | 9 40 | 0 31 | 12 38 | 0 34 | 22 44 | 0 7 | 16 45 | 17 9 | 12 10 | 10 10 | 0 14 |
| T 16 | 1 46 | 8 53 | 5 8 | 5 30 | 3 32 | 12 21 | 4 23 | 8 45 | 2 38 | 17 58 | 1 3 | 17 47 | 1 16 | 9 41 | 0 31 | 12 38 | 0 34 | 22 44 | 0 7 | 16 47 | 17 10 | 12 9 | 10 11 | 0 14 |
| W17 | 1 23 | 13 0 | 5 8 | 5 19 | 3 32 | 12 19 | 4 14 | 8 42 | 2 37 | 17 59 | 1 3 | 17 47 | 1 16 | 9 42 | 0 31 | 12 37 | 0 34 | 22 44 | 0 7 | 16 49 | 17 11 | 12 7 | 10 12 | 0 14 |
| T 18 | 0 59 | 16 16 | 4 50 | 5 3 | 3 31 | 12 18 | 4 4 | 8 39 | 2 37 | 18 0 | 1 3 | 17 48 | 1 16 | 9 43 | 0 31 | 12 36 | 0 34 | 22 44 | 0 7 | 16 50 | 17 12 | 12 5 | 10 13 | 0 14 |
| F 19 | 0 35 | 18 36 | 4 17 | 4 44 | 3 28 | 12 15 | 3 55 | 8 36 | 2 36 | 18 1 | 1 3 | 17 49 | 1 16 | 9 44 | 0 31 | 12 35 | 0 34 | 22 44 | 0 7 | 16 51 | 17 12 | 12 4 | 10 14 | 0 14 |
| S 20 | 0 12 | 19 56 | 3 33 | 4 21 | 3 24 | 12 13 | 3 46 | 8 32 | 2 36 | 18 2 | 1 3 | 17 50 | 1 16 | 9 46 | 0 31 | 12 35 | 0 34 | 22 45 | 0 7 | 16 51 | 17 13 | 12 2 | 10 16 | 0 14 |
| S 21 | 0n12 | 20 15 | 2 40 | 3 55 | 3 17 | 12 9 | 3 37 | 8 29 | 2 35 | 18 3 | 1 3 | 17 51 | 1 16 | 9 47 | 0 31 | 12 34 | 0 34 | 22 45 | 0 7 | 16 51 | 17 14 | 12 0 | 10 17 | 0 14 |
| M22 | 0 36 | 19 37 | 1 41 | 3 28 | 3 9 | 12 5 | 3 28 | 8 25 | 2 35 | 18 4 | 1 3 | 17 51 | 1 16 | 9 48 | 0 31 | 12 33 | 0 34 | 22 45 | 0 7 | 16 50 | 17 15 | 11 59 | 10 18 | 0 14 |
| T 23 | 0 59 | 18 6 | 0 38 | 2 58 | 2 59 | 12 1 | 3 19 | 8 21 | 2 34 | 18 5 | 1 3 | 17 52 | 1 16 | 9 49 | 0 31 | 12 33 | 0 35 | 22 45 | 0 7 | 16 50 | 17 16 | 11 57 | 10 19 | 0 14 |
| W24 | 1 23 | 15 50 | 0s25 | 2 27 | 2 48 | 11 56 | 3 10 | 8 16 | 2 33 | 18 6 | 1 3 | 17 53 | 1 16 | 9 50 | 0 31 | 12 32 | 0 35 | 22 45 | 0 7 | 16 50 | 17 17 | 11 55 | 10 20 | 0 14 |
| T 25 | 1 47 | 12 54 | 1 28 | 1 55 | 2 35 | 11 50 | 3 1 | 8 12 | 2 33 | 18 6 | 1 3 | 17 53 | 1 15 | 9 51 | 0 31 | 12 31 | 0 35 | 22 45 | 0 7 | 16 50 | 17 18 | 11 54 | 10 22 | 0 14 |
| F 26 | 2 10 | 9 27 | 2 26 | 1 24 | 2 22 | 11 44 | 2 52 | 8 7 | 2 32 | 18 7 | 1 2 | 17 54 | 1 15 | 9 53 | 0 31 | 12 31 | 0 35 | 22 45 | 0 7 | 16 51 | 17 19 | 11 52 | 10 23 | 0 15 |
| S 27 | 2 34 | 5 36 | 3 19 | 0 52 | 2 7 | 11 37 | 2 44 | 8 2 | 2 31 | 18 8 | 1 2 | 17 54 | 1 15 | 9 54 | 0 31 | 12 30 | 0 35 | 22 45 | 0 8 | 16 53 | 17 20 | 11 50 | 10 24 | 0 15 |
| S 28 | 2 57 | 1 30 | 4 3 | 0 22 | 1 52 | 11 30 | 2 35 | 7 57 | 2 30 | 18 8 | 1 2 | 17 55 | 1 15 | 9 55 | 0 31 | 12 30 | 0 35 | 22 45 | 0 8 | 16 56 | 17 20 | 11 49 | 10 25 | 0 15 |
| M29 | 3 20 | 2n42 | 4 36 | 0s 8 | 1 36 | 11 22 | 2 27 | 7 52 | 2 29 | 18 9 | 1 2 | 17 55 | 1 15 | 9 56 | 0 31 | 12 29 | 0 35 | 22 45 | 0 8 | 16 58 | 17 21 | 11 47 | 10 27 | 0 15 |
| T 30 | 3 44 | 6 51 | 4 57 | 0 35 | 1 21 | 11 14 | 2 19 | 7 46 | 2 28 | 18 9 | 1 2 | 17 56 | 1 15 | 9 57 | 0 31 | 12 28 | 0 35 | 22 45 | 0 8 | 17 2 | 17 22 | 11 45 | 10 28 | 0 15 |
| W31 | 4n 7 | 10n46 | 5s 5 | 1s 1 | 1n 5 | 11s 5 | 2n10 | 7s41 | 2n26 | 18n 9 | 1n 2 | 17n56 | 1n15 | 9n59 | 0s31 | 12s28 | 0s35 | 22n45 | 0n 8 | 17n 4 | 17n23 | 11s44 | 10n29 | 0s15 |

Julian Day Number = 2335822.5, Delta T = 21.90 sec
Ecliptic obliquity = 23°28'44, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'03, Lahiri = 19°26'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## APRIL 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 37 45 | 11♈21'50 | 25♉ 7 | 24°R36 | 26♒ 4 | 25°R23 | 12°R11 | 13°R41 | 27♈10 | 28♒48 | 15♋ 4 | 12°R22 | 11♌22 | 4♓43 | 27♈54 | T 1 |
| F 2 | 12 41 42 | 12°20'52 | 7♊59 | 24♓19 | 26°55 | 25♎ 3 | 12♌10 | 13♌40 | 27°13 | 28°50 | 15° 4 | 12♌15 | 11°19 | 4°50 | 27°57 | F 2 |
| S 3 | 12 45 38 | 13°19'51 | 21° 5 | 24° 7 | 27°46 | 24°43 | 12° 9 | 13°38 | 27°16 | 28°52 | 15° 4 | 12°11 | 11°15 | 4°57 | 28° 1 | S 3 |
| S 4 | 12 49 35 | 14°18'48 | 4♋26 | 24° 1 | 28°39 | 24°23 | 12° 8 | 13°37 | 27°20 | 28°54 | 15° 4 | 12° 8 | 11°12 | 5° 3 | 28° 5 | S 4 |
| M 5 | 12 53 32 | 15°17'43 | 18° 4 | 24°D 0 | 29°32 | 24° 2 | 12° 8 | 13°36 | 27°23 | 28°55 | 15° 5 | 12°D 8 | 11° 9 | 5°10 | 28° 9 | M 5 |
| T 6 | 12 57 28 | 16°16'35 | 2♌ 0 | 24° 5 | 0♓25 | 23°41 | 12° 7 | 13°35 | 27°26 | 28°57 | 15° 5 | 12° 8 | 11° 6 | 5°17 | 28°13 | T 6 |
| W 7 | 13 1 25 | 17°15'25 | 16°15 | 24°15 | 1°19 | 23°19 | 12° 7 | 13°34 | 27°30 | 28°59 | 15° 5 | 12°R 9 | 11° 3 | 5°23 | 28°16 | W 7 |
| T 8 | 13 5 21 | 18°14'13 | 0♍47 | 24°30 | 2°14 | 22°57 | 12°D 7 | 13°34 | 27°33 | 29° 0 | 15° 5 | 12° 7 | 10°59 | 5°30 | 28°20 | T 8 |
| F 9 | 13 9 18 | 19°12'58 | 15°33 | 24°49 | 3° 9 | 22°35 | 12° 7 | 13°33 | 27°37 | 29° 2 | 15° 5 | 12° 4 | 10°56 | 5°37 | 28°24 | F 9 |
| S 10 | 13 13 14 | 20°11'41 | 0♎28 | 25°13 | 4° 5 | 22°12 | 12° 7 | 13°32 | 27°40 | 29° 4 | 15° 6 | 11°58 | 10°53 | 5°43 | 28°28 | S 10 |
| S 11 | 13 17 11 | 21°10'22 | 15°22 | 25°42 | 5° 1 | 21°50 | 12° 8 | 13°32 | 27°44 | 29° 5 | 15° 6 | 11°49 | 10°50 | 5°50 | 28°32 | S 11 |
| M12 | 13 21 7 | 22° 9'01 | 0♏ 8 | 26°15 | 5°58 | 21°27 | 12° 9 | 13°32 | 27°47 | 29° 7 | 15° 6 | 11°39 | 10°47 | 5°57 | 28°36 | M12 |
| T 13 | 13 25 4 | 23° 7'38 | 14°37 | 26°52 | 6°55 | 21° 5 | 12°10 | 13°31 | 27°50 | 29° 8 | 15° 7 | 11°28 | 10°44 | 6° 3 | 28°39 | T 13 |
| W14 | 13 29 1 | 24° 6'14 | 28°42 | 27°33 | 7°52 | 20°42 | 12°11 | 13°31 | 27°54 | 29°10 | 15° 7 | 11°18 | 10°40 | 6°10 | 28°43 | W14 |
| T 15 | 13 32 57 | 25° 4'47 | 12♐21 | 28°17 | 8°50 | 20°19 | 12°12 | 13°D31 | 27°57 | 29°11 | 15° 8 | 11° 9 | 10°37 | 6°17 | 28°47 | T 15 |
| F 16 | 13 36 54 | 26° 3'19 | 25°32 | 29° 5 | 9°49 | 19°56 | 12°13 | 13°31 | 28° 1 | 29°13 | 15° 8 | 11° 4 | 10°34 | 6°23 | 28°51 | F 16 |
| S 17 | 13 40 50 | 27° 1'50 | 8♑17 | 29°56 | 10°48 | 19°34 | 12°15 | 13°31 | 28° 4 | 29°14 | 15° 8 | 11° 0 | 10°31 | 6°30 | 28°55 | S 17 |
| S 18 | 13 44 47 | 28° 0'18 | 20°40 | 0♈51 | 11°47 | 19°11 | 12°17 | 13°32 | 28° 8 | 29°16 | 15° 9 | 10°59 | 10°28 | 6°36 | 28°59 | S 18 |
| M19 | 13 48 43 | 28°58'45 | 2♒46 | 1°49 | 12°46 | 18°49 | 12°19 | 13°32 | 28°11 | 29°17 | 15° 9 | 10°D59 | 10°25 | 6°43 | 29° 3 | M19 |
| T 20 | 13 52 40 | 29°57'11 | 14°41 | 2°49 | 13°46 | 18°27 | 12°21 | 13°33 | 28°15 | 29°18 | 15°10 | 10°R59 | 10°21 | 6°50 | 29° 7 | T 20 |
| W21 | 13 56 36 | 0♉55'34 | 26°29 | 3°52 | 14°47 | 18° 5 | 12°23 | 13°33 | 28°18 | 29°20 | 15°10 | 10°58 | 10°18 | 6°56 | 29°11 | W21 |
| T 22 | 14 0 33 | 1°53'57 | 8♓16 | 4°58 | 15°47 | 17°44 | 12°26 | 13°34 | 28°21 | 29°21 | 15°11 | 10°55 | 10°15 | 7° 3 | 29°14 | T 22 |
| F 23 | 14 4 30 | 2°52'17 | 20° 7 | 6° 7 | 16°48 | 17°23 | 12°28 | 13°35 | 28°25 | 29°22 | 15°12 | 10°50 | 10°12 | 7°10 | 29°18 | F 23 |
| S 24 | 14 8 26 | 3°50'36 | 2♈ 5 | 7°18 | 17°49 | 17° 2 | 12°31 | 13°36 | 28°28 | 29°23 | 15°12 | 10°42 | 10° 9 | 7°16 | 29°22 | S 24 |
| S 25 | 14 12 23 | 4°48'53 | 14°14 | 8°31 | 18°51 | 16°42 | 12°34 | 13°37 | 28°32 | 29°25 | 15°13 | 10°31 | 10° 5 | 7°23 | 29°26 | S 25 |
| M26 | 14 16 19 | 5°47'08 | 26°34 | 9°47 | 19°53 | 16°22 | 12°37 | 13°38 | 28°35 | 29°26 | 15°14 | 10°19 | 10° 2 | 7°30 | 29°30 | M26 |
| T 27 | 14 20 16 | 6°45'22 | 9♉ 8 | 11° 5 | 20°55 | 16° 3 | 12°41 | 13°39 | 28°39 | 29°27 | 15°14 | 10° 5 | 9°59 | 7°36 | 29°34 | T 27 |
| W28 | 14 24 12 | 7°43'34 | 21°54 | 12°26 | 21°57 | 15°44 | 12°44 | 13°41 | 28°42 | 29°28 | 15°15 | 9°52 | 9°56 | 7°43 | 29°38 | W28 |
| T 29 | 14 28 9 | 8°41'44 | 4♊53 | 13°48 | 23° 0 | 15°26 | 12°48 | 13°42 | 28°45 | 29°29 | 15°16 | 9°40 | 9°53 | 7°50 | 29°42 | T 29 |
| F 30 | 14 32 5 | 9♉39'53 | 18♊ 3 | 15♈13 | 24♓ 3 | 15♎ 9 | 12♌52 | 13♌44 | 28♈49 | 29♒30 | 15♋16 | 9♌31 | 9♌50 | 7♓56 | 29♈45 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n30 | 14n16 | 4s57 | 1s25 | 0n49 | 10s56 | 2n 2 | 7s35 | 2n25 | 18n10 | 1n 2 | 17n57 | 1n15 | 10n 0 | 0s31 | 12s27 | 0s35 | 22n45 | 0n 8 | 17n 7 | 17n24 | 11s42 | 10n31 | 0s15 |
| F 2 | 4 53 | 17 9 | 4 35 | 1 46 | 0 33 | 10 46 | 1 55 | 7 29 | 2 24 | 18 10 | 1 2 | 17 57 | 1 15 | 10 1 | 0 31 | 12 26 | 0 35 | 22 45 | 0 8 | 17 9 | 17 25 | 11 40 | 10 32 | 0 15 |
| S 3 | 5 16 | 19 13 | 3 58 | 2 5 | 0 17 | 10 36 | 1 47 | 7 23 | 2 22 | 18 10 | 1 2 | 17 57 | 1 15 | 10 2 | 0 31 | 12 26 | 0 35 | 22 45 | 0 8 | 17 10 | 17 26 | 11 38 | 10 33 | 0 15 |
| S 4 | 5 39 | 20 17 | 3 7 | 2 21 | 0 2 | 10 25 | 1 39 | 7 17 | 2 21 | 18 10 | 1 2 | 17 58 | 1 15 | 10 4 | 0 31 | 12 25 | 0 35 | 22 46 | 0 8 | 17 11 | 17 27 | 11 37 | 10 34 | 0 15 |
| M 5 | 6 2 | 20 12 | 2 5 | 2 35 | 0s13 | 10 14 | 1 32 | 7 11 | 2 19 | 18 10 | 1 2 | 17 58 | 1 15 | 10 5 | 0 31 | 12 25 | 0 35 | 22 46 | 0 8 | 17 11 | 17 27 | 11 35 | 10 36 | 0 15 |
| T 6 | 6 25 | 18 52 | 0 54 | 2 46 | 0 27 | 10 2 | 1 24 | 7 4 | 2 18 | 18 10 | 1 2 | 17 58 | 1 15 | 10 6 | 0 31 | 12 24 | 0 35 | 22 46 | 0 8 | 17 11 | 17 28 | 11 33 | 10 37 | 0 15 |
| W 7 | 6 47 | 16 21 | 0n22 | 2 54 | 0 40 | 9 50 | 1 17 | 6 58 | 2 16 | 18 10 | 1 1 | 17 59 | 1 15 | 10 7 | 0 31 | 12 24 | 0 35 | 22 46 | 0 8 | 17 11 | 17 29 | 11 32 | 10 38 | 0 15 |
| T 8 | 7 10 | 12 44 | 1 38 | 3 1 | 0 53 | 9 37 | 1 10 | 6 51 | 2 14 | 18 10 | 1 1 | 17 59 | 1 15 | 10 8 | 0 31 | 12 23 | 0 35 | 22 46 | 0 8 | 17 11 | 17 30 | 11 30 | 10 40 | 0 15 |
| F 9 | 7 32 | 8 17 | 2 48 | 3 4 | 1 6 | 9 24 | 1 3 | 6 45 | 2 12 | 18 10 | 1 1 | 17 59 | 1 15 | 10 10 | 0 31 | 12 22 | 0 35 | 22 46 | 0 8 | 17 12 | 17 31 | 11 28 | 10 41 | 0 16 |
| S 10 | 7 54 | 3 17 | 3 47 | 3 5 | 1 17 | 9 10 | 0 56 | 6 38 | 2 11 | 18 10 | 1 1 | 17 59 | 1 15 | 10 11 | 0 31 | 12 22 | 0 35 | 22 46 | 0 8 | 17 14 | 17 32 | 11 27 | 10 42 | 0 16 |
| S 11 | 8 16 | 1s53 | 4 31 | 3 4 | 1 28 | 8 56 | 0 49 | 6 32 | 2 9 | 18 10 | 1 1 | 17 59 | 1 15 | 10 12 | 0 31 | 12 21 | 0 35 | 22 46 | 0 8 | 17 16 | 17 33 | 11 25 | 10 43 | 0 16 |
| M12 | 8 38 | 6 55 | 4 56 | 3 0 | 1 39 | 8 41 | 0 42 | 6 25 | 2 7 | 18 9 | 1 1 | 17 59 | 1 15 | 10 13 | 0 31 | 12 21 | 0 35 | 22 46 | 0 9 | 17 19 | 17 34 | 11 23 | 10 45 | 0 16 |
| T 13 | 9 0 | 11 26 | 5 2 | 2 54 | 1 48 | 8 26 | 0 36 | 6 19 | 2 5 | 18 9 | 1 1 | 17 59 | 1 15 | 10 15 | 0 31 | 12 20 | 0 35 | 22 46 | 0 9 | 17 22 | 17 34 | 11 21 | 10 46 | 0 16 |
| W14 | 9 22 | 15 12 | 4 49 | 2 46 | 1 57 | 8 11 | 0 29 | 6 12 | 2 2 | 18 9 | 1 1 | 17 59 | 1 15 | 10 16 | 0 31 | 12 20 | 0 35 | 22 46 | 0 9 | 17 25 | 17 35 | 11 20 | 10 47 | 0 16 |
| T 15 | 9 43 | 18 2 | 4 19 | 2 36 | 2 6 | 7 55 | 0 23 | 6 6 | 2 0 | 18 8 | 1 1 | 17 59 | 1 15 | 10 17 | 0 31 | 12 19 | 0 35 | 22 46 | 0 9 | 17 27 | 17 36 | 11 18 | 10 49 | 0 16 |
| F 16 | 10 5 | 19 48 | 3 37 | 2 24 | 2 13 | 7 39 | 0 17 | 5 59 | 1 58 | 18 8 | 1 1 | 17 59 | 1 15 | 10 18 | 0 31 | 12 19 | 0 35 | 22 46 | 0 9 | 17 29 | 17 37 | 11 16 | 10 50 | 0 16 |
| S 17 | 10 26 | 20 29 | 2 44 | 2 10 | 2 20 | 7 22 | 0 11 | 5 53 | 1 56 | 18 7 | 1 0 | 17 59 | 1 15 | 10 20 | 0 31 | 12 18 | 0 35 | 22 46 | 0 9 | 17 30 | 17 38 | 11 14 | 10 51 | 0 16 |
| S 18 | 10 47 | 20 9 | 1 46 | 1 54 | 2 26 | 7 5 | 0 5 | 5 47 | 1 53 | 18 7 | 1 0 | 17 59 | 1 15 | 10 21 | 0 31 | 12 18 | 0 35 | 22 46 | 0 9 | 17 30 | 17 39 | 11 13 | 10 53 | 0 16 |
| M19 | 11 8 | 18 52 | 0 43 | 1 36 | 2 32 | 6 48 | 0s 1 | 5 40 | 1 51 | 18 6 | 1 0 | 17 59 | 1 15 | 10 22 | 0 31 | 12 17 | 0 35 | 22 46 | 0 9 | 17 30 | 17 40 | 11 11 | 10 54 | 0 16 |
| T 20 | 11 28 | 16 46 | 0s20 | 1 16 | 2 37 | 6 30 | 0 7 | 5 34 | 1 49 | 18 5 | 1 0 | 17 58 | 1 15 | 10 23 | 0 31 | 12 17 | 0 35 | 22 46 | 0 9 | 17 30 | 17 40 | 11 9 | 10 55 | 0 16 |
| W21 | 11 49 | 13 59 | 1 21 | 0 55 | 2 41 | 6 12 | 0 12 | 5 28 | 1 46 | 18 4 | 1 0 | 17 58 | 1 14 | 10 25 | 0 31 | 12 17 | 0 35 | 22 46 | 0 9 | 17 31 | 17 41 | 11 7 | 10 57 | 0 16 |
| T 22 | 12 9 | 10 38 | 2 19 | 0 32 | 2 45 | 5 53 | 0 18 | 5 22 | 1 44 | 18 4 | 1 0 | 17 58 | 1 14 | 10 26 | 0 31 | 12 16 | 0 35 | 22 46 | 0 9 | 17 31 | 17 42 | 11 6 | 10 58 | 0 17 |
| F 23 | 12 29 | 6 51 | 3 11 | 0 8 | 2 48 | 5 34 | 0 23 | 5 17 | 1 41 | 18 3 | 1 0 | 17 58 | 1 14 | 10 27 | 0 31 | 12 16 | 0 35 | 22 46 | 0 9 | 17 33 | 17 43 | 11 4 | 10 59 | 0 17 |
| S 24 | 12 49 | 2 46 | 3 56 | 0n18 | 2 50 | 5 15 | 0 28 | 5 11 | 1 38 | 18 2 | 1 0 | 17 57 | 1 14 | 10 28 | 0 31 | 12 15 | 0 35 | 22 46 | 0 9 | 17 35 | 17 44 | 11 2 | 11 0 | 0 17 |
| S 25 | 13 9 | 1n29 | 4 30 | 0 45 | 2 52 | 4 56 | 0 33 | 5 6 | 1 36 | 18 1 | 1 0 | 17 57 | 1 14 | 10 29 | 0 31 | 12 15 | 0 35 | 22 46 | 0 9 | 17 38 | 17 45 | 11 0 | 11 2 | 0 17 |
| M26 | 13 28 | 5 44 | 4 52 | 1 14 | 2 53 | 4 36 | 0 38 | 5 1 | 1 33 | 18 0 | 1 0 | 17 57 | 1 14 | 10 31 | 0 31 | 12 15 | 0 35 | 22 46 | 0 9 | 17 41 | 17 46 | 10 59 | 11 3 | 0 17 |
| T 27 | 13 48 | 9 49 | 5 0 | 1 44 | 2 53 | 4 16 | 0 43 | 4 56 | 1 31 | 17 59 | 0 59 | 17 56 | 1 14 | 10 32 | 0 31 | 12 14 | 0 35 | 22 46 | 0 9 | 17 45 | 17 46 | 10 57 | 11 4 | 0 17 |
| W28 | 14 7 | 13 32 | 4 54 | 2 16 | 2 53 | 3 55 | 0 47 | 4 51 | 1 28 | 17 58 | 0 59 | 17 56 | 1 14 | 10 33 | 0 31 | 12 14 | 0 35 | 22 46 | 0 9 | 17 48 | 17 47 | 10 55 | 11 6 | 0 17 |
| T 29 | 14 25 | 16 41 | 4 32 | 2 48 | 2 52 | 3 35 | 0 52 | 4 47 | 1 25 | 17 57 | 0 59 | 17 55 | 1 14 | 10 34 | 0 31 | 12 13 | 0 35 | 22 46 | 0 10 | 17 52 | 17 48 | 10 53 | 11 7 | 0 17 |
| F 30 | 14n44 | 19n 2 | 3s56 | 3n22 | 2s51 | 3s14 | 0s56 | 4s42 | 1n23 | 17n55 | 0n59 | 17n55 | 1n14 | 10n36 | 0s31 | 12s13 | 0s35 | 22n46 | 0n10 | 17n54 | 17n49 | 10s52 | 11n 8 | 0s17 |

Julian Day Number = 2335853.5, Delta T = 21.85 sec
Ecliptic obliquity = 23°28'44, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'08, Lahiri = 19°26'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## MAY 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 36 2 | 10♉38'00 | 1♋25 | 16♈39 | 25♓ 6 | 14°R52 | 12♌56 | 13♌45 | 28♈52 | 29♒31 | 15♋17 | 9°R25 | 9♌46 | 8♓ 3 | 29♈49 | S 1 |
| S 2 | 14 39 58 | 11°36'04 | 14°57 | 18° 8 | 26° 9 | 14♎36 | 13° 0 | 13°47 | 28°56 | 29°32 | 15°18 | 9♌21 | 9°43 | 8°10 | 29°53 | S 2 |
| M 3 | 14 43 55 | 12°34'07 | 28°40 | 19°39 | 27°13 | 14°20 | 13° 4 | 13°49 | 28°59 | 29°33 | 15°19 | 9°20 | 9°40 | 8°16 | 29°57 | M 3 |
| T 4 | 14 47 52 | 13°32'08 | 12♌34 | 21°12 | 28°16 | 14° 5 | 13° 9 | 13°51 | 29° 2 | 29°34 | 15°20 | 9°19 | 9°37 | 8°23 | 0♉ 1 | T 4 |
| W 5 | 14 51 48 | 14°30'07 | 26°39 | 22°47 | 29°20 | 13°51 | 13°14 | 13°53 | 29° 6 | 29°35 | 15°21 | 9°19 | 9°34 | 8°30 | 0° 5 | W 5 |
| T 6 | 14 55 45 | 15°28'04 | 10♍55 | 24°24 | 0♈24 | 13°38 | 13°19 | 13°55 | 29° 9 | 29°36 | 15°21 | 9°18 | 9°31 | 8°36 | 0° 8 | T 6 |
| F 7 | 14 59 41 | 16°25'59 | 25°20 | 26° 3 | 1°29 | 13°25 | 13°24 | 13°58 | 29°12 | 29°37 | 15°22 | 9°14 | 9°27 | 8°43 | 0°12 | F 7 |
| S 8 | 15 3 38 | 17°23'52 | 9♎51 | 27°44 | 2°33 | 13°14 | 13°29 | 14° 0 | 29°16 | 29°38 | 15°23 | 9° 7 | 9°24 | 8°50 | 0°16 | S 8 |
| S 9 | 15 7 34 | 18°21'44 | 24°21 | 29°27 | 3°38 | 13° 2 | 13°34 | 14° 3 | 29°19 | 29°38 | 15°24 | 8°58 | 9°21 | 8°56 | 0°20 | S 9 |
| M10 | 15 11 31 | 19°19'34 | 8♏45 | 1♉12 | 4°43 | 12°52 | 13°40 | 14° 5 | 29°22 | 29°39 | 15°25 | 8°47 | 9°18 | 9° 3 | 0°23 | M10 |
| T 11 | 15 15 27 | 20°17'22 | 22°56 | 2°59 | 5°48 | 12°43 | 13°45 | 14° 8 | 29°26 | 29°40 | 15°26 | 8°36 | 9°15 | 9°10 | 0°27 | T 11 |
| W12 | 15 19 24 | 21°15'09 | 6♐49 | 4°49 | 6°54 | 12°34 | 13°51 | 14°11 | 29°29 | 29°40 | 15°27 | 8°25 | 9°11 | 9°16 | 0°31 | W12 |
| T 13 | 15 23 21 | 22°12'55 | 20°20 | 6°40 | 7°59 | 12°26 | 13°57 | 14°14 | 29°32 | 29°41 | 15°28 | 8°16 | 9° 8 | 9°23 | 0°35 | T 13 |
| F 14 | 15 27 17 | 23°10'39 | 3♑28 | 8°33 | 9° 5 | 12°19 | 14° 3 | 14°17 | 29°35 | 29°42 | 15°29 | 8° 9 | 9° 5 | 9°30 | 0°38 | F 14 |
| S 15 | 15 31 14 | 24° 8'23 | 16°12 | 10°28 | 10°11 | 12°13 | 14° 9 | 14°20 | 29°39 | 29°42 | 15°30 | 8° 5 | 9° 2 | 9°36 | 0°42 | S 15 |
| S 16 | 15 35 10 | 25° 6'05 | 28°36 | 12°25 | 11°17 | 12° 7 | 14°15 | 14°23 | 29°42 | 29°43 | 15°31 | 8° 3 | 8°59 | 9°43 | 0°45 | S 16 |
| M17 | 15 39 7 | 26° 3'46 | 10♒44 | 14°24 | 12°23 | 12° 3 | 14°22 | 14°26 | 29°45 | 29°43 | 15°32 | 8°D 3 | 8°56 | 9°50 | 0°49 | M17 |
| T 18 | 15 43 3 | 27° 1'26 | 22°40 | 16°25 | 13°29 | 11°59 | 14°29 | 14°29 | 29°48 | 29°44 | 15°34 | 8°R 3 | 8°52 | 9°56 | 0°53 | T 18 |
| W19 | 15 47 0 | 27°59'04 | 4♓31 | 18°28 | 14°36 | 11°56 | 14°35 | 14°33 | 29°51 | 29°44 | 15°35 | 8° 3 | 8°49 | 10° 3 | 0°56 | W19 |
| T 20 | 15 50 56 | 28°56'42 | 16°20 | 20°32 | 15°42 | 11°54 | 14°42 | 14°36 | 29°54 | 29°45 | 15°36 | 8° 1 | 8°46 | 10°10 | 1° 0 | T 20 |
| F 21 | 15 54 53 | 29°54'19 | 28°14 | 22°38 | 16°49 | 11°52 | 14°49 | 14°40 | 29°58 | 29°45 | 15°37 | 7°58 | 8°43 | 10°16 | 1° 3 | F 21 |
| S 22 | 15 58 50 | 0♊51'55 | 10♈17 | 24°46 | 17°56 | 11°D51 | 14°56 | 14°44 | 0♉ 1 | 29°46 | 15°38 | 7°52 | 8°40 | 10°23 | 1° 7 | S 22 |
| S 23 | 16 2 46 | 1°49'30 | 22°32 | 26°55 | 19° 3 | 11°52 | 15° 4 | 14°47 | 0° 4 | 29°46 | 15°39 | 7°43 | 8°36 | 10°30 | 1°10 | S 23 |
| M24 | 16 6 43 | 2°47'04 | 5♉ 3 | 29° 4 | 20°10 | 11°52 | 15°11 | 14°51 | 0° 7 | 29°46 | 15°40 | 7°33 | 8°33 | 10°36 | 1°14 | M24 |
| T 25 | 16 10 39 | 3°44'37 | 17°51 | 1♊15 | 21°17 | 11°54 | 15°19 | 14°55 | 0°10 | 29°47 | 15°42 | 7°22 | 8°30 | 10°43 | 1°17 | T 25 |
| W26 | 16 14 36 | 4°42'09 | 0♊55 | 3°27 | 22°24 | 11°57 | 15°26 | 14°59 | 0°13 | 29°47 | 15°43 | 7°12 | 8°27 | 10°50 | 1°21 | W26 |
| T 27 | 16 18 32 | 5°39'40 | 14°15 | 5°39 | 23°32 | 12° 0 | 15°34 | 15° 4 | 0°16 | 29°47 | 15°44 | 7° 2 | 8°24 | 10°56 | 1°24 | T 27 |
| F 28 | 16 22 29 | 6°37'10 | 27°48 | 7°51 | 24°40 | 12° 4 | 15°42 | 15° 8 | 0°19 | 29°47 | 15°45 | 6°55 | 8°21 | 11° 3 | 1°27 | F 28 |
| S 29 | 16 26 25 | 7°34'39 | 11♋33 | 10° 3 | 25°47 | 12° 8 | 15°50 | 15°12 | 0°22 | 29°47 | 15°47 | 6°50 | 8°17 | 11°10 | 1°31 | S 29 |
| S 30 | 16 30 22 | 8°32'07 | 25°26 | 12°14 | 26°55 | 12°14 | 15°58 | 15°16 | 0°25 | 29°47 | 15°48 | 6°47 | 8°14 | 11°16 | 1°34 | S 30 |
| M31 | 16 34 19 | 9♊29'33 | 9♌25 | 14♊25 | 28♈ 3 | 12♎20 | 16♌ 7 | 15♌21 | 0♉27 | 29♒47 | 15♋49 | 6°D47 | 8♌11 | 11♓23 | 1♉37 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 15n 2 | 20n22 | 3s 6 | 3n57 | 2s49 | 2s53 | 1s 1 | 4s38 | 1n20 | 17n54 | 0n59 | 17n54 | 1n14 | 10n37 | 0s31 | 12s13 | 0s35 | 22n46 | 0n10 | 17n56 | 17n50 | 10s50 | 11n 9 | 0s17 | S 1 |
| S 2 | 15 20 | 20 34 | 2 5 | 4 33 | 2 47 | 2 31 | 1 5 | 4 34 | 1 17 | 17 53 | 0 59 | 17 54 | 1 14 | 10 38 | 0 31 | 12 12 | 0 36 | 22 46 | 0 10 | 17 57 | 17 51 | 10 48 | 11 11 | 0 17 | S 2 |
| M 3 | 15 38 | 19 33 | 0 56 | 5 10 | 2 44 | 2 10 | 1 9 | 4 31 | 1 15 | 17 52 | 0 59 | 17 53 | 1 14 | 10 39 | 0 31 | 12 12 | 0 36 | 22 46 | 0 10 | 17 57 | 17 52 | 10 46 | 11 12 | 0 17 | M 3 |
| T 4 | 15 56 | 17 20 | 0n17 | 5 49 | 2 40 | 1 48 | 1 13 | 4 28 | 1 12 | 17 50 | 0 59 | 17 52 | 1 14 | 10 40 | 0 31 | 12 12 | 0 36 | 22 46 | 0 10 | 17 57 | 17 52 | 10 44 | 11 13 | 0 18 | T 4 |
| W 5 | 16 13 | 14 4 | 1 30 | 6 28 | 2 36 | 1 26 | 1 16 | 4 25 | 1 9 | 17 49 | 0 59 | 17 52 | 1 14 | 10 42 | 0 31 | 12 12 | 0 36 | 22 45 | 0 10 | 17 57 | 17 53 | 10 43 | 11 15 | 0 18 | W 5 |
| T 6 | 16 30 | 9 56 | 2 39 | 7 8 | 2 31 | 1 4 | 1 20 | 4 22 | 1 6 | 17 47 | 0 59 | 17 51 | 1 14 | 10 43 | 0 31 | 12 11 | 0 36 | 22 45 | 0 10 | 17 58 | 17 54 | 10 41 | 11 16 | 0 18 | T 6 |
| F 7 | 16 47 | 5 11 | 3 38 | 7 48 | 2 26 | 0 41 | 1 23 | 4 20 | 1 4 | 17 46 | 0 58 | 17 50 | 1 14 | 10 44 | 0 31 | 12 11 | 0 36 | 22 45 | 0 10 | 17 59 | 17 55 | 10 39 | 11 17 | 0 18 | F 7 |
| S 8 | 17 3 | 0 8 | 4 23 | 8 30 | 2 21 | 0 19 | 1 27 | 4 18 | 1 1 | 17 44 | 0 58 | 17 50 | 1 14 | 10 45 | 0 31 | 12 11 | 0 36 | 22 45 | 0 10 | 18 0 | 17 56 | 10 37 | 11 18 | 0 18 | S 8 |
| S 9 | 17 19 | 4s56 | 4 51 | 9 12 | 2 14 | 0n 4 | 1 30 | 4 16 | 0 58 | 17 42 | 0 58 | 17 49 | 1 14 | 10 46 | 0 31 | 12 11 | 0 36 | 22 45 | 0 10 | 18 3 | 17 57 | 10 35 | 11 20 | 0 18 | S 9 |
| M10 | 17 35 | 9 41 | 5 1 | 9 55 | 2 8 | 0 27 | 1 33 | 4 14 | 0 56 | 17 41 | 0 58 | 17 48 | 1 14 | 10 47 | 0 31 | 12 10 | 0 36 | 22 45 | 0 10 | 18 6 | 17 57 | 10 34 | 11 21 | 0 18 | M10 |
| T 11 | 17 51 | 13 50 | 4 52 | 10 38 | 2 1 | 0 50 | 1 36 | 4 13 | 0 53 | 17 39 | 0 58 | 17 47 | 1 13 | 10 49 | 0 31 | 12 10 | 0 36 | 22 45 | 0 10 | 18 9 | 17 58 | 10 32 | 11 22 | 0 18 | T 11 |
| W12 | 18 6 | 17 8 | 4 25 | 11 22 | 1 53 | 1 14 | 1 39 | 4 12 | 0 50 | 17 37 | 0 58 | 17 46 | 1 13 | 10 50 | 0 31 | 12 10 | 0 36 | 22 45 | 0 10 | 18 11 | 17 59 | 10 30 | 11 23 | 0 18 | W12 |
| T 13 | 18 21 | 19 24 | 3 44 | 12 7 | 1 45 | 1 37 | 1 42 | 4 11 | 0 48 | 17 36 | 0 58 | 17 46 | 1 13 | 10 51 | 0 31 | 12 10 | 0 36 | 22 45 | 0 10 | 18 14 | 18 0 | 10 28 | 11 24 | 0 18 | T 13 |
| F 14 | 18 36 | 20 34 | 2 53 | 12 51 | 1 36 | 2 0 | 1 44 | 4 11 | 0 45 | 17 34 | 0 58 | 17 45 | 1 13 | 10 52 | 0 31 | 12 9 | 0 36 | 22 45 | 0 10 | 18 16 | 18 1 | 10 26 | 11 26 | 0 18 | F 14 |
| S 15 | 18 50 | 20 37 | 1 53 | 13 36 | 1 27 | 2 24 | 1 47 | 4 11 | 0 43 | 17 32 | 0 58 | 17 44 | 1 13 | 10 53 | 0 31 | 12 9 | 0 36 | 22 45 | 0 10 | 18 17 | 18 2 | 10 24 | 11 27 | 0 18 | S 15 |
| S 16 | 19 4 | 19 39 | 0 50 | 14 21 | 1 18 | 2 48 | 1 49 | 4 11 | 0 40 | 17 30 | 0 58 | 17 43 | 1 13 | 10 54 | 0 31 | 12 9 | 0 36 | 22 45 | 0 11 | 18 17 | 18 3 | 10 23 | 11 28 | 0 19 | S 16 |
| M17 | 19 18 | 17 48 | 0s14 | 15 6 | 1 9 | 3 11 | 1 51 | 4 12 | 0 38 | 17 28 | 0 57 | 17 42 | 1 13 | 10 55 | 0 31 | 12 9 | 0 36 | 22 45 | 0 11 | 18 17 | 18 3 | 10 21 | 11 29 | 0 19 | M17 |
| T 18 | 19 32 | 15 12 | 1 17 | 15 50 | 0 59 | 3 35 | 1 54 | 4 12 | 0 35 | 17 26 | 0 57 | 17 41 | 1 13 | 10 57 | 0 31 | 12 9 | 0 36 | 22 45 | 0 11 | 18 17 | 18 4 | 10 19 | 11 30 | 0 19 | T 18 |
| W19 | 19 45 | 11 59 | 2 16 | 16 34 | 0 49 | 3 59 | 1 56 | 4 13 | 0 33 | 17 24 | 0 57 | 17 40 | 1 13 | 10 58 | 0 31 | 12 9 | 0 36 | 22 45 | 0 11 | 18 17 | 18 5 | 10 17 | 11 32 | 0 19 | W19 |
| T 20 | 19 57 | 8 18 | 3 9 | 17 18 | 0 38 | 4 23 | 1 58 | 4 15 | 0 30 | 17 22 | 0 57 | 17 39 | 1 13 | 10 59 | 0 31 | 12 9 | 0 36 | 22 45 | 0 11 | 18 18 | 18 6 | 10 15 | 11 33 | 0 19 | T 20 |
| F 21 | 20 10 | 4 17 | 3 54 | 18 1 | 0 28 | 4 47 | 1 59 | 4 16 | 0 28 | 17 20 | 0 57 | 17 37 | 1 13 | 11 0 | 0 31 | 12 8 | 0 36 | 22 45 | 0 11 | 18 18 | 18 7 | 10 13 | 11 34 | 0 19 | F 21 |
| S 22 | 20 22 | 0 3 | 4 29 | 18 43 | 0 17 | 5 11 | 2 1 | 4 18 | 0 25 | 17 17 | 0 57 | 17 36 | 1 13 | 11 1 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 20 | 18 8 | 10 12 | 11 35 | 0 19 | S 22 |
| S 23 | 20 34 | 4n15 | 4 53 | 19 24 | 0 6 | 5 35 | 2 3 | 4 21 | 0 23 | 17 15 | 0 57 | 17 35 | 1 13 | 11 2 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 22 | 18 8 | 10 10 | 11 36 | 0 19 | S 23 |
| M24 | 20 45 | 8 28 | 5 3 | 20 3 | 0n 4 | 5 59 | 2 4 | 4 23 | 0 21 | 17 13 | 0 57 | 17 34 | 1 13 | 11 3 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 25 | 18 9 | 10 8 | 11 37 | 0 19 | M24 |
| T 25 | 20 56 | 12 24 | 4 58 | 20 41 | 0 15 | 6 23 | 2 5 | 4 26 | 0 18 | 17 11 | 0 57 | 17 33 | 1 13 | 11 4 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 27 | 18 10 | 10 6 | 11 38 | 0 19 | T 25 |
| W26 | 21 7 | 15 50 | 4 38 | 21 17 | 0 25 | 6 47 | 2 7 | 4 29 | 0 16 | 17 8 | 0 57 | 17 32 | 1 13 | 11 5 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 30 | 18 11 | 10 4 | 11 39 | 0 19 | W26 |
| T 27 | 21 17 | 18 32 | 4 2 | 21 52 | 0 35 | 7 11 | 2 8 | 4 32 | 0 14 | 17 6 | 0 57 | 17 30 | 1 13 | 11 6 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 33 | 18 12 | 10 2 | 11 41 | 0 20 | T 27 |
| F 28 | 21 27 | 20 15 | 3 13 | 22 24 | 0 45 | 7 34 | 2 9 | 4 36 | 0 12 | 17 3 | 0 57 | 17 29 | 1 13 | 11 7 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 35 | 18 13 | 10 1 | 11 42 | 0 20 | F 28 |
| S 29 | 21 37 | 20 48 | 2 11 | 22 53 | 0 55 | 7 58 | 2 9 | 4 40 | 0 10 | 17 1 | 0 56 | 17 28 | 1 13 | 11 8 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 36 | 18 13 | 9 59 | 11 43 | 0 20 | S 29 |
| S 30 | 21 46 | 20 6 | 1 0 | 23 21 | 1 4 | 8 22 | 2 10 | 4 44 | 0 7 | 16 58 | 0 56 | 17 26 | 1 13 | 11 9 | 0 31 | 12 8 | 0 36 | 22 44 | 0 11 | 18 36 | 18 14 | 9 57 | 11 44 | 0 20 | S 30 |
| M31 | 21n55 | 18n 9 | 0n14 | 23n46 | 1n12 | 8n46 | 2s11 | 4s48 | 0n 5 | 16n56 | 0n56 | 17n25 | 1n13 | 11n10 | 0s31 | 12s 8 | 0s36 | 22n44 | 0n11 | 18n37 | 18n15 | 9s55 | 11n45 | 0s20 | M31 |

Julian Day Number = 2335883.5, Delta T = 21.81 sec
Ecliptic obliquity = 23°28'44, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'12, Lahiri = 19°26'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## JUNE 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 38 15 | 10♊26'58 | 23♌29 | 16♊35 | 29♈11 | 12♎27 | 16♌15 | 15♌26 | 0♉30 | 29♒47 | 15♋51 | 6♌47 | 8♌ 8 | 11♓30 | 1♉41 | T 1 |
| W 2 | 16 42 12 | 11°24'22 | 7♍37 | 18°44 | 0♉19 | 12°34 | 16°23 | 15°30 | 0°33 | 29°R47 | 15°52 | 6°R48 | 8° 5 | 11°36 | 1°44 | W 2 |
| T 3 | 16 46 8 | 12°21'45 | 21°47 | 20°51 | 1°27 | 12°43 | 16°32 | 15°35 | 0°36 | 29°47 | 15°53 | 6°48 | 8° 2 | 11°43 | 1°47 | T 3 |
| F 4 | 16 50 5 | 13°19'07 | 5♎58 | 22°57 | 2°36 | 12°52 | 16°41 | 15°40 | 0°39 | 29°47 | 15°55 | 6°45 | 7°58 | 11°50 | 1°50 | F 4 |
| S 5 | 16 54 1 | 14°16'28 | 20° 7 | 25° 1 | 3°44 | 13° 1 | 16°50 | 15°45 | 0°41 | 29°47 | 15°56 | 6°41 | 7°55 | 11°56 | 1°53 | S 5 |
| S 6 | 16 57 58 | 15°13'47 | 4♏12 | 27° 3 | 4°52 | 13°11 | 16°59 | 15°49 | 0°44 | 29°47 | 15°57 | 6°35 | 7°52 | 12° 3 | 1°56 | S 6 |
| M 7 | 17 1 54 | 16°11'06 | 18° 9 | 29° 3 | 6° 1 | 13°22 | 17° 8 | 15°54 | 0°47 | 29°47 | 15°59 | 6°28 | 7°49 | 12°10 | 1°59 | M 7 |
| T 8 | 17 5 51 | 17° 8'24 | 1♐55 | 1♋ 1 | 7°10 | 13°34 | 17°17 | 16° 0 | 0°49 | 29°47 | 16° 0 | 6°19 | 7°46 | 12°16 | 2° 2 | T 8 |
| W 9 | 17 9 48 | 18° 5'41 | 15°25 | 2°57 | 8°18 | 13°46 | 17°26 | 16° 5 | 0°52 | 29°47 | 16° 2 | 6°12 | 7°42 | 12°23 | 2° 5 | W 9 |
| T 10 | 17 13 44 | 19° 2'57 | 28°39 | 4°50 | 9°27 | 13°59 | 17°35 | 16°10 | 0°54 | 29°46 | 16° 3 | 6° 5 | 7°39 | 12°30 | 2° 8 | T 10 |
| F 11 | 17 17 41 | 20° 0'13 | 11♑34 | 6°41 | 10°36 | 14°12 | 17°45 | 16°15 | 0°57 | 29°46 | 16° 5 | 6° 1 | 7°36 | 12°36 | 2°11 | F 11 |
| S 12 | 17 21 37 | 20°57'29 | 24°10 | 8°30 | 11°45 | 14°26 | 17°54 | 16°21 | 0°59 | 29°46 | 16° 6 | 5°58 | 7°33 | 12°43 | 2°14 | S 12 |
| S 13 | 17 25 34 | 21°54'44 | 6♒31 | 10°17 | 12°54 | 14°40 | 18° 4 | 16°26 | 1° 2 | 29°45 | 16° 7 | 5°D58 | 7°30 | 12°50 | 2°17 | S 13 |
| M14 | 17 29 30 | 22°51'59 | 18°37 | 12° 1 | 14° 3 | 14°55 | 18°14 | 16°32 | 1° 4 | 29°45 | 16° 9 | 5°58 | 7°27 | 12°56 | 2°20 | M14 |
| T 15 | 17 33 27 | 23°49'13 | 0♓33 | 13°43 | 15°13 | 15°11 | 18°24 | 16°37 | 1° 7 | 29°45 | 16°10 | 6° 0 | 7°23 | 13° 3 | 2°22 | T 15 |
| W16 | 17 37 24 | 24°46'27 | 12°24 | 15°22 | 16°22 | 15°27 | 18°34 | 16°43 | 1° 9 | 29°44 | 16°12 | 6° 1 | 7°20 | 13°10 | 2°25 | W16 |
| T 17 | 17 41 20 | 25°43'41 | 24°15 | 16°59 | 17°31 | 15°44 | 18°44 | 16°48 | 1°11 | 29°44 | 16°13 | 6°R 2 | 7°17 | 13°16 | 2°28 | T 17 |
| F 18 | 17 45 17 | 26°40'55 | 6♈10 | 18°34 | 18°41 | 16° 1 | 18°54 | 16°54 | 1°14 | 29°43 | 16°15 | 6° 1 | 7°14 | 13°23 | 2°30 | F 18 |
| S 19 | 17 49 13 | 27°38'08 | 18°15 | 20° 6 | 19°50 | 16°19 | 19° 4 | 17° 0 | 1°16 | 29°43 | 16°16 | 5°59 | 7°11 | 13°30 | 2°33 | S 19 |
| S 20 | 17 53 10 | 28°35'22 | 0♉34 | 21°36 | 21° 0 | 16°37 | 19°14 | 17° 6 | 1°18 | 29°42 | 16°18 | 5°56 | 7° 8 | 13°36 | 2°36 | S 20 |
| M21 | 17 57 6 | 29°32'36 | 13°10 | 23° 3 | 22°10 | 16°56 | 19°25 | 17°12 | 1°20 | 29°42 | 16°19 | 5°51 | 7° 4 | 13°43 | 2°38 | M21 |
| T 22 | 18 1 3 | 0♋29'49 | 26° 6 | 24°27 | 23°20 | 17°15 | 19°35 | 17°18 | 1°23 | 29°41 | 16°21 | 5°45 | 7° 1 | 13°50 | 2°41 | T 22 |
| W23 | 18 4 59 | 1°27'03 | 9♊23 | 25°50 | 24°30 | 17°35 | 19°46 | 17°24 | 1°25 | 29°40 | 16°23 | 5°40 | 6°58 | 13°56 | 2°43 | W23 |
| T 24 | 18 8 56 | 2°24'16 | 23° 0 | 27° 9 | 25°39 | 17°55 | 19°56 | 17°30 | 1°27 | 29°40 | 16°24 | 5°35 | 6°55 | 14° 3 | 2°45 | T 24 |
| F 25 | 18 12 53 | 3°21'29 | 6♋55 | 28°26 | 26°49 | 18°15 | 20° 7 | 17°36 | 1°29 | 29°39 | 16°26 | 5°31 | 6°52 | 14°10 | 2°48 | F 25 |
| S 26 | 18 16 49 | 4°18'43 | 21° 4 | 29°40 | 28° 0 | 18°36 | 20°18 | 17°42 | 1°31 | 29°38 | 16°27 | 5°29 | 6°48 | 14°17 | 2°50 | S 26 |
| S 27 | 18 20 46 | 5°15'56 | 5♌23 | 0♌52 | 29°10 | 18°58 | 20°28 | 17°49 | 1°33 | 29°37 | 16°29 | 5°D28 | 6°45 | 14°23 | 2°52 | S 27 |
| M28 | 18 24 42 | 6°13'08 | 19°47 | 2° 1 | 0♊20 | 19°20 | 20°39 | 17°55 | 1°35 | 29°37 | 16°30 | 5°29 | 6°42 | 14°30 | 2°55 | M28 |
| T 29 | 18 28 39 | 7°10'21 | 4♍11 | 3° 7 | 1°30 | 19°42 | 20°50 | 18° 1 | 1°37 | 29°36 | 16°32 | 5°30 | 6°39 | 14°37 | 2°57 | T 29 |
| W30 | 18 32 35 | 8♋ 7'33 | 18♍32 | 4♌10 | 2♊40 | 20♎ 5 | 21♌ 1 | 18♌ 8 | 1♉38 | 29♒35 | 16♋33 | 5♌31 | 6♌36 | 14♓43 | 2♉59 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 3 | 15n 6 | 1n28 | 24n 8 | 1n20 | 9n 9 | 2s11 | 4s53 | 0n 3 | 16n53 | 0n56 | 17n24 | 1n13 | 11n11 | 0s31 | 12s 8 | 0s36 | 22n44 | 0n11 | 18n36 | 18n16 | 9s53 | 11n46 | 0s20 |
| W 2 | 22 11 | 11 10 | 2 38 | 24 27 | 1 27 | 9 33 | 2 12 | 4 57 | 0 1 | 16 51 | 0 56 | 17 22 | 1 13 | 11 12 | 0 31 | 12 8 | 0 36 | 22 43 | 0 12 | 18 36 | 18 17 | 9 51 | 11 47 | 0 20 |
| T 3 | 22 19 | 6 35 | 3 37 | 24 44 | 1 34 | 9 56 | 2 12 | 5 3 | 0s 1 | 16 48 | 0 56 | 17 21 | 1 13 | 11 13 | 0 31 | 12 8 | 0 37 | 22 43 | 0 12 | 18 36 | 18 17 | 9 49 | 11 48 | 0 20 |
| F 4 | 22 26 | 1 40 | 4 24 | 24 57 | 1 40 | 10 19 | 2 12 | 5 8 | 0 3 | 16 45 | 0 56 | 17 19 | 1 12 | 11 14 | 0 31 | 12 8 | 0 37 | 22 43 | 0 12 | 18 37 | 18 18 | 9 47 | 11 49 | 0 20 |
| S 5 | 22 33 | 3s20 | 4 54 | 25 8 | 1 45 | 10 42 | 2 13 | 5 13 | 0 5 | 16 42 | 0 56 | 17 18 | 1 12 | 11 15 | 0 31 | 12 8 | 0 37 | 22 43 | 0 12 | 18 38 | 18 19 | 9 46 | 11 50 | 0 20 |
| S 6 | 22 40 | 8 8 | 5 6 | 25 17 | 1 50 | 11 5 | 2 13 | 5 19 | 0 7 | 16 40 | 0 56 | 17 16 | 1 12 | 11 16 | 0 31 | 12 8 | 0 37 | 22 43 | 0 12 | 18 39 | 18 20 | 9 44 | 11 51 | 0 20 |
| M 7 | 22 46 | 12 27 | 5 0 | 25 22 | 1 54 | 11 28 | 2 13 | 5 25 | 0 9 | 16 37 | 0 56 | 17 15 | 1 12 | 11 17 | 0 31 | 12 8 | 0 37 | 22 43 | 0 12 | 18 41 | 18 21 | 9 42 | 11 52 | 0 21 |
| T 8 | 22 51 | 16 3 | 4 37 | 25 25 | 1 57 | 11 50 | 2 12 | 5 31 | 0 10 | 16 34 | 0 56 | 17 13 | 1 12 | 11 18 | 0 31 | 12 8 | 0 37 | 22 43 | 0 12 | 18 43 | 18 22 | 9 40 | 11 53 | 0 21 |
| W 9 | 22 57 | 18 44 | 3 58 | 25 26 | 1 59 | 12 13 | 2 12 | 5 38 | 0 12 | 16 31 | 0 56 | 17 12 | 1 12 | 11 19 | 0 31 | 12 8 | 0 37 | 22 43 | 0 12 | 18 45 | 18 22 | 9 38 | 11 54 | 0 21 |
| T 10 | 23 2 | 20 21 | 3 8 | 25 24 | 2 1 | 12 35 | 2 12 | 5 44 | 0 14 | 16 28 | 0 56 | 17 10 | 1 12 | 11 20 | 0 31 | 12 9 | 0 37 | 22 43 | 0 12 | 18 47 | 18 23 | 9 36 | 11 55 | 0 21 |
| F 11 | 23 6 | 20 51 | 2 8 | 25 20 | 2 2 | 12 57 | 2 11 | 5 51 | 0 16 | 16 25 | 0 56 | 17 8 | 1 12 | 11 20 | 0 31 | 12 9 | 0 37 | 22 43 | 0 12 | 18 48 | 18 24 | 9 34 | 11 56 | 0 21 |
| S 12 | 23 10 | 20 16 | 1 3 | 25 14 | 2 2 | 13 18 | 2 11 | 5 58 | 0 18 | 16 22 | 0 56 | 17 7 | 1 12 | 11 21 | 0 31 | 12 9 | 0 37 | 22 42 | 0 12 | 18 49 | 18 25 | 9 32 | 11 56 | 0 21 |
| S 13 | 23 14 | 18 43 | 0s 3 | 25 5 | 2 1 | 13 40 | 2 10 | 6 5 | 0 19 | 16 19 | 0 55 | 17 5 | 1 12 | 11 22 | 0 31 | 12 9 | 0 37 | 22 42 | 0 12 | 18 49 | 18 26 | 9 30 | 11 57 | 0 21 |
| M14 | 23 17 | 16 21 | 1 8 | 24 55 | 2 0 | 14 1 | 2 10 | 6 13 | 0 21 | 16 16 | 0 55 | 17 3 | 1 12 | 11 23 | 0 31 | 12 9 | 0 37 | 22 42 | 0 12 | 18 49 | 18 26 | 9 28 | 11 58 | 0 21 |
| T 15 | 23 20 | 13 19 | 2 10 | 24 43 | 1 58 | 14 22 | 2 9 | 6 20 | 0 23 | 16 13 | 0 55 | 17 2 | 1 12 | 11 24 | 0 31 | 12 9 | 0 37 | 22 42 | 0 12 | 18 48 | 18 27 | 9 27 | 11 59 | 0 21 |
| W16 | 23 23 | 9 46 | 3 5 | 24 30 | 1 55 | 14 43 | 2 8 | 6 28 | 0 24 | 16 10 | 0 55 | 17 0 | 1 12 | 11 25 | 0 31 | 12 10 | 0 37 | 22 42 | 0 12 | 18 48 | 18 28 | 9 25 | 12 0 | 0 21 |
| T 17 | 23 25 | 5 50 | 3 52 | 24 14 | 1 51 | 15 3 | 2 7 | 6 36 | 0 26 | 16 7 | 0 55 | 16 58 | 1 12 | 11 25 | 0 31 | 12 10 | 0 37 | 22 42 | 0 12 | 18 48 | 18 29 | 9 23 | 12 1 | 0 22 |
| F 18 | 23 26 | 1 41 | 4 30 | 23 58 | 1 47 | 15 24 | 2 6 | 6 44 | 0 28 | 16 3 | 0 55 | 16 56 | 1 12 | 11 26 | 0 31 | 12 10 | 0 37 | 22 42 | 0 12 | 18 48 | 18 30 | 9 21 | 12 2 | 0 22 |
| S 19 | 23 27 | 2n36 | 4 56 | 23 40 | 1 43 | 15 43 | 2 5 | 6 52 | 0 29 | 16 0 | 0 55 | 16 55 | 1 12 | 11 27 | 0 31 | 12 10 | 0 37 | 22 42 | 0 13 | 18 48 | 18 30 | 9 19 | 12 2 | 0 22 |
| S 20 | 23 28 | 6 51 | 5 10 | 23 21 | 1 37 | 16 3 | 2 4 | 7 1 | 0 31 | 15 57 | 0 55 | 16 53 | 1 12 | 11 28 | 0 31 | 12 10 | 0 37 | 22 41 | 0 13 | 18 49 | 18 31 | 9 17 | 12 3 | 0 22 |
| M21 | 23 29 | 10 55 | 5 9 | 23 0 | 1 31 | 16 22 | 2 2 | 7 9 | 0 32 | 15 54 | 0 55 | 16 51 | 1 12 | 11 28 | 0 31 | 12 11 | 0 37 | 22 41 | 0 13 | 18 50 | 18 32 | 9 15 | 12 4 | 0 22 |
| T 22 | 23 29 | 14 35 | 4 52 | 22 39 | 1 25 | 16 41 | 2 1 | 7 18 | 0 34 | 15 50 | 0 55 | 16 49 | 1 12 | 11 29 | 0 31 | 12 11 | 0 37 | 22 41 | 0 13 | 18 52 | 18 33 | 9 13 | 12 5 | 0 22 |
| W23 | 23 28 | 17 37 | 4 19 | 22 17 | 1 18 | 17 0 | 2 0 | 7 27 | 0 35 | 15 47 | 0 55 | 16 47 | 1 12 | 11 30 | 0 31 | 12 11 | 0 37 | 22 41 | 0 13 | 18 53 | 18 34 | 9 11 | 12 5 | 0 22 |
| T 24 | 23 27 | 19 47 | 3 31 | 21 54 | 1 10 | 17 18 | 1 58 | 7 36 | 0 37 | 15 44 | 0 55 | 16 45 | 1 12 | 11 31 | 0 31 | 12 11 | 0 37 | 22 41 | 0 13 | 18 54 | 18 34 | 9 9 | 12 6 | 0 22 |
| F 25 | 23 26 | 20 48 | 2 30 | 21 31 | 1 2 | 17 35 | 1 56 | 7 45 | 0 38 | 15 40 | 0 55 | 16 44 | 1 12 | 11 31 | 0 31 | 12 12 | 0 37 | 22 41 | 0 13 | 18 55 | 18 35 | 9 7 | 12 7 | 0 22 |
| S 26 | 23 25 | 20 32 | 1 18 | 21 7 | 0 53 | 17 53 | 1 55 | 7 55 | 0 39 | 15 37 | 0 55 | 16 42 | 1 12 | 11 32 | 0 31 | 12 12 | 0 37 | 22 41 | 0 13 | 18 56 | 18 36 | 9 5 | 12 7 | 0 22 |
| S 27 | 23 22 | 18 57 | 0 0 | 20 42 | 0 44 | 18 10 | 1 53 | 8 4 | 0 41 | 15 33 | 0 55 | 16 40 | 1 12 | 11 33 | 0 31 | 12 12 | 0 37 | 22 41 | 0 13 | 18 56 | 18 37 | 9 3 | 12 8 | 0 23 |
| M28 | 23 20 | 16 8 | 1n18 | 20 17 | 0 34 | 18 26 | 1 51 | 8 14 | 0 42 | 15 30 | 0 55 | 16 38 | 1 12 | 11 33 | 0 31 | 12 13 | 0 37 | 22 40 | 0 13 | 18 56 | 18 38 | 9 1 | 12 9 | 0 23 |
| T 29 | 23 17 | 12 20 | 2 31 | 19 52 | 0 23 | 18 42 | 1 49 | 8 23 | 0 43 | 15 26 | 0 55 | 16 36 | 1 12 | 11 34 | 0 31 | 12 13 | 0 37 | 22 40 | 0 13 | 18 56 | 18 38 | 9 0 | 12 9 | 0 23 |
| W30 | 23n14 | 7n50 | 3n35 | 19n27 | 0n13 | 18n58 | 1s48 | 8s33 | 0s45 | 15n23 | 0n55 | 16n34 | 1n12 | 11n35 | 0s31 | 12s13 | 0s37 | 22n40 | 0n13 | 18n55 | 18n39 | 8s58 | 12n10 | 0s23 |

Julian Day Number = 2335914.5, Delta T = 21.76 sec
Ecliptic obliquity = 23°28'44, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'16, Lahiri = 19°26'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## JULY 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 36 32 | 9♋ 4'45 | 2♎47 | 5♌10 | 3♊51 | 20♎28 | 21♌13 | 18♌14 | 1♉40 | 29°R34 | 16♋35 | 5°R32 | 6♌33 | 14♓50 | 3♉ 1 | T 1 |
| F 2 | 18 40 28 | 10° 1'56 | 16°54 | 6° 6 | 5° 1 | 20°52 | 21°24 | 18°21 | 1°42 | 29♒33 | 16°37 | 5♌32 | 6°29 | 14°57 | 3° 3 | F 2 |
| S 3 | 18 44 25 | 10°59'07 | 0♏51 | 7° 0 | 6°12 | 21°16 | 21°35 | 18°27 | 1°44 | 29°32 | 16°38 | 5°31 | 6°26 | 15° 3 | 3° 5 | S 3 |
| S 4 | 18 48 22 | 11°56'19 | 14°37 | 7°50 | 7°22 | 21°40 | 21°46 | 18°34 | 1°45 | 29°31 | 16°40 | 5°29 | 6°23 | 15°10 | 3° 7 | S 4 |
| M 5 | 18 52 18 | 12°53'30 | 28°10 | 8°37 | 8°33 | 22° 5 | 21°58 | 18°41 | 1°47 | 29°30 | 16°41 | 5°26 | 6°20 | 15°17 | 3° 9 | M 5 |
| T 6 | 18 56 15 | 13°50'41 | 11♐30 | 9°20 | 9°44 | 22°30 | 22° 9 | 18°47 | 1°48 | 29°29 | 16°43 | 5°23 | 6°17 | 15°23 | 3°10 | T 6 |
| W 7 | 19 0 11 | 14°47'52 | 24°36 | 9°59 | 10°54 | 22°56 | 22°21 | 18°54 | 1°50 | 29°28 | 16°44 | 5°20 | 6°14 | 15°30 | 3°12 | W 7 |
| T 8 | 19 4 8 | 15°45'04 | 7♑28 | 10°34 | 12° 5 | 23°22 | 22°32 | 19° 1 | 1°51 | 29°27 | 16°46 | 5°17 | 6°10 | 15°37 | 3°14 | T 8 |
| F 9 | 19 8 4 | 16°42'15 | 20° 5 | 11° 6 | 13°16 | 23°48 | 22°44 | 19° 8 | 1°53 | 29°26 | 16°48 | 5°16 | 6° 7 | 15°43 | 3°16 | F 9 |
| S 10 | 19 12 1 | 17°39'27 | 2♒29 | 11°33 | 14°27 | 24°14 | 22°56 | 19°15 | 1°54 | 29°25 | 16°49 | 5°D15 | 6° 4 | 15°50 | 3°17 | S 10 |
| S 11 | 19 15 57 | 18°36'39 | 14°41 | 11°56 | 15°38 | 24°41 | 23° 7 | 19°22 | 1°56 | 29°24 | 16°51 | 5°15 | 6° 1 | 15°57 | 3°19 | S 11 |
| M12 | 19 19 54 | 19°33'52 | 26°42 | 12°14 | 16°49 | 25° 8 | 23°19 | 19°29 | 1°57 | 29°23 | 16°52 | 5°16 | 5°58 | 16° 3 | 3°20 | M12 |
| T 13 | 19 23 51 | 20°31'06 | 8♓37 | 12°28 | 18° 0 | 25°36 | 23°31 | 19°36 | 1°58 | 29°22 | 16°54 | 5°18 | 5°54 | 16°10 | 3°22 | T 13 |
| W14 | 19 27 47 | 21°28'19 | 20°27 | 12°37 | 19°11 | 26° 4 | 23°43 | 19°43 | 1°59 | 29°20 | 16°56 | 5°19 | 5°51 | 16°17 | 3°23 | W14 |
| T 15 | 19 31 44 | 22°25'34 | 2♈18 | 12°R41 | 20°22 | 26°32 | 23°55 | 19°50 | 2° 0 | 29°19 | 16°57 | 5°20 | 5°48 | 16°23 | 3°24 | T 15 |
| F 16 | 19 35 40 | 23°22'49 | 14°13 | 12°41 | 21°34 | 27° 0 | 24° 7 | 19°57 | 2° 2 | 29°18 | 16°59 | 5°21 | 5°45 | 16°30 | 3°26 | F 16 |
| S 17 | 19 39 37 | 24°20'06 | 26°17 | 12°35 | 22°45 | 27°29 | 24°19 | 20° 4 | 2° 3 | 29°17 | 17° 0 | 5°R21 | 5°42 | 16°37 | 3°27 | S 17 |
| S 18 | 19 43 33 | 25°17'23 | 8♉36 | 12°25 | 23°56 | 27°58 | 24°31 | 20°11 | 2° 4 | 29°15 | 17° 2 | 5°20 | 5°39 | 16°43 | 3°28 | S 18 |
| M19 | 19 47 30 | 26°14'41 | 21°11 | 12° 9 | 25° 8 | 28°28 | 24°43 | 20°18 | 2° 5 | 29°14 | 17° 3 | 5°20 | 5°35 | 16°50 | 3°29 | M19 |
| T 20 | 19 51 26 | 27°11'59 | 4♊ 9 | 11°49 | 26°19 | 28°57 | 24°56 | 20°26 | 2° 6 | 29°13 | 17° 5 | 5°19 | 5°32 | 16°57 | 3°30 | T 20 |
| W21 | 19 55 23 | 28° 9'19 | 17°30 | 11°25 | 27°31 | 29°27 | 25° 8 | 20°33 | 2° 6 | 29°11 | 17° 7 | 5°18 | 5°29 | 17° 3 | 3°31 | W21 |
| T 22 | 19 59 20 | 29° 6'40 | 1♋15 | 10°55 | 28°43 | 29°57 | 25°20 | 20°40 | 2° 7 | 29°10 | 17° 8 | 5°17 | 5°26 | 17°10 | 3°32 | T 22 |
| F 23 | 20 3 16 | 0♌ 4'02 | 15°24 | 10°22 | 29°54 | 0♏28 | 25°32 | 20°47 | 2° 8 | 29° 9 | 17°10 | 5°17 | 5°23 | 17°17 | 3°33 | F 23 |
| S 24 | 20 7 13 | 1° 1'24 | 29°52 | 9°46 | 1♋ 6 | 0°59 | 25°45 | 20°55 | 2° 9 | 29° 7 | 17°11 | 5°D16 | 5°20 | 17°23 | 3°34 | S 24 |
| S 25 | 20 11 9 | 1°58'47 | 14♌33 | 9° 6 | 2°18 | 1°30 | 25°57 | 21° 2 | 2° 9 | 29° 6 | 17°13 | 5°17 | 5°16 | 17°30 | 3°35 | S 25 |
| M26 | 20 15 6 | 2°56'11 | 29°22 | 8°24 | 3°30 | 2° 1 | 26°10 | 21°10 | 2°10 | 29° 5 | 17°14 | 5°17 | 5°13 | 17°37 | 3°36 | M26 |
| T 27 | 20 19 2 | 3°53'35 | 14♍11 | 7°40 | 4°42 | 2°33 | 26°22 | 21°17 | 2°11 | 29° 3 | 17°16 | 5°17 | 5°10 | 17°44 | 3°36 | T 27 |
| W28 | 20 22 59 | 4°51'01 | 28°53 | 6°54 | 5°54 | 3° 4 | 26°35 | 21°24 | 2°11 | 29° 2 | 17°17 | 5°R17 | 5° 7 | 17°50 | 3°37 | W28 |
| T 29 | 20 26 55 | 5°48'26 | 13♎23 | 6° 9 | 7° 6 | 3°36 | 26°47 | 21°32 | 2°12 | 29° 0 | 17°19 | 5°17 | 5° 4 | 17°57 | 3°38 | T 29 |
| F 30 | 20 30 52 | 6°45'53 | 27°36 | 5°24 | 8°18 | 4° 9 | 27° 0 | 21°39 | 2°12 | 28°59 | 17°20 | 5°17 | 5° 0 | 18° 4 | 3°38 | F 30 |
| S 31 | 20 34 49 | 7♌43'20 | 11♏30 | 4♌40 | 9♋30 | 4♏41 | 27♌12 | 21♌47 | 2♉12 | 28♒57 | 17♋22 | 5°D17 | 4♌57 | 18♓10 | 3♉39 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 23n10 | 2n56 | 4n25 | 19n 2 | 0n 1 | 19n13 | 1s46 | 8s43 | 0s46 | 15n19 | 0n55 | 16n32 | 1n12 | 11n35 | 0s31 | 12s13 | 0s37 | 22n40 | 0n13 | 18n55 | 18n40 | 8s56 | 12n11 | 0s23 | T 1 |
| F 2 | 23 6 | 2s 4 | 4 58 | 18 37 | 0s10 | 19 28 | 1 44 | 8 53 | 0 47 | 15 15 | 0 55 | 16 30 | 1 12 | 11 36 | 0 31 | 12 14 | 0 37 | 22 40 | 0 13 | 18 55 | 18 41 | 8 54 | 12 11 | 0 23 | F 2 |
| S 3 | 23 1 | 6 53 | 5 13 | 18 11 | 0 23 | 19 43 | 1 42 | 9 3 | 0 49 | 15 12 | 0 55 | 16 28 | 1 12 | 11 36 | 0 31 | 12 14 | 0 37 | 22 40 | 0 13 | 18 55 | 18 42 | 8 52 | 12 12 | 0 23 | S 3 |
| S 4 | 22 57 | 11 18 | 5 10 | 17 47 | 0 35 | 19 57 | 1 39 | 9 14 | 0 50 | 15 8 | 0 55 | 16 26 | 1 12 | 11 37 | 0 31 | 12 15 | 0 37 | 22 40 | 0 13 | 18 56 | 18 42 | 8 50 | 12 12 | 0 23 | S 4 |
| M 5 | 22 51 | 15 4 | 4 50 | 17 22 | 0 48 | 20 10 | 1 37 | 9 24 | 0 51 | 15 4 | 0 55 | 16 24 | 1 12 | 11 37 | 0 31 | 12 15 | 0 37 | 22 39 | 0 14 | 18 57 | 18 43 | 8 48 | 12 13 | 0 23 | M 5 |
| T 6 | 22 45 | 18 0 | 4 14 | 16 58 | 1 1 | 20 23 | 1 35 | 9 35 | 0 52 | 15 0 | 0 54 | 16 22 | 1 12 | 11 38 | 0 31 | 12 15 | 0 37 | 22 39 | 0 14 | 18 57 | 18 44 | 8 46 | 12 13 | 0 23 | T 6 |
| W 7 | 22 39 | 19 57 | 3 26 | 16 35 | 1 15 | 20 35 | 1 33 | 9 45 | 0 53 | 14 57 | 0 54 | 16 19 | 1 12 | 11 38 | 0 31 | 12 16 | 0 37 | 22 39 | 0 14 | 18 58 | 18 45 | 8 44 | 12 14 | 0 24 | W 7 |
| T 8 | 22 33 | 20 49 | 2 27 | 16 12 | 1 28 | 20 47 | 1 30 | 9 56 | 0 54 | 14 53 | 0 54 | 16 17 | 1 12 | 11 39 | 0 31 | 12 16 | 0 38 | 22 39 | 0 14 | 18 59 | 18 46 | 8 42 | 12 14 | 0 24 | T 8 |
| F 9 | 22 26 | 20 36 | 1 23 | 15 50 | 1 42 | 20 58 | 1 28 | 10 7 | 0 56 | 14 49 | 0 54 | 16 15 | 1 12 | 11 39 | 0 31 | 12 16 | 0 38 | 22 39 | 0 14 | 18 59 | 18 46 | 8 40 | 12 15 | 0 24 | F 9 |
| S 10 | 22 19 | 19 23 | 0 15 | 15 29 | 1 56 | 21 9 | 1 26 | 10 17 | 0 57 | 14 45 | 0 54 | 16 13 | 1 12 | 11 40 | 0 31 | 12 17 | 0 38 | 22 39 | 0 14 | 18 59 | 18 47 | 8 38 | 12 15 | 0 24 | S 10 |
| S 11 | 22 11 | 17 17 | 0s52 | 15 9 | 2 11 | 21 19 | 1 23 | 10 28 | 0 58 | 14 41 | 0 54 | 16 11 | 1 12 | 11 40 | 0 31 | 12 17 | 0 38 | 22 39 | 0 14 | 18 59 | 18 48 | 8 36 | 12 16 | 0 24 | S 11 |
| M12 | 22 3 | 14 27 | 1 56 | 14 50 | 2 25 | 21 29 | 1 21 | 10 39 | 0 59 | 14 37 | 0 54 | 16 9 | 1 12 | 11 41 | 0 31 | 12 18 | 0 38 | 22 39 | 0 14 | 18 59 | 18 49 | 8 34 | 12 16 | 0 24 | M12 |
| T 13 | 21 55 | 11 3 | 2 54 | 14 33 | 2 39 | 21 38 | 1 18 | 10 50 | 1 0 | 14 33 | 0 54 | 16 6 | 1 12 | 11 41 | 0 31 | 12 18 | 0 38 | 22 38 | 0 14 | 18 59 | 18 50 | 8 32 | 12 17 | 0 24 | T 13 |
| W14 | 21 46 | 7 14 | 3 45 | 14 17 | 2 53 | 21 47 | 1 16 | 11 2 | 1 1 | 14 29 | 0 54 | 16 4 | 1 12 | 11 42 | 0 31 | 12 19 | 0 38 | 22 38 | 0 14 | 18 58 | 18 50 | 8 30 | 12 17 | 0 24 | W14 |
| T 15 | 21 37 | 3 9 | 4 26 | 14 2 | 3 7 | 21 55 | 1 13 | 11 13 | 1 2 | 14 25 | 0 54 | 16 2 | 1 12 | 11 42 | 0 31 | 12 19 | 0 38 | 22 38 | 0 14 | 18 58 | 18 51 | 8 28 | 12 17 | 0 24 | T 15 |
| F 16 | 21 27 | 1n 4 | 4 56 | 13 49 | 3 21 | 22 2 | 1 10 | 11 24 | 1 3 | 14 21 | 0 54 | 16 0 | 1 12 | 11 42 | 0 31 | 12 20 | 0 38 | 22 38 | 0 14 | 18 58 | 18 52 | 8 26 | 12 18 | 0 24 | F 16 |
| S 17 | 21 17 | 5 18 | 5 13 | 13 38 | 3 34 | 22 9 | 1 8 | 11 35 | 1 4 | 14 17 | 0 54 | 15 58 | 1 12 | 11 43 | 0 32 | 12 20 | 0 38 | 22 38 | 0 14 | 18 58 | 18 53 | 8 24 | 12 18 | 0 25 | S 17 |
| S 18 | 21 7 | 9 23 | 5 16 | 13 29 | 3 47 | 22 16 | 1 5 | 11 47 | 1 5 | 14 13 | 0 54 | 15 55 | 1 12 | 11 43 | 0 32 | 12 20 | 0 38 | 22 38 | 0 14 | 18 58 | 18 53 | 8 22 | 12 18 | 0 25 | S 18 |
| M19 | 20 56 | 13 11 | 5 5 | 13 21 | 3 59 | 22 21 | 1 2 | 11 58 | 1 6 | 14 9 | 0 54 | 15 53 | 1 12 | 11 43 | 0 32 | 12 21 | 0 38 | 22 38 | 0 14 | 18 58 | 18 54 | 8 20 | 12 19 | 0 25 | M19 |
| T 20 | 20 45 | 16 27 | 4 38 | 13 16 | 4 10 | 22 26 | 0 59 | 12 10 | 1 7 | 14 5 | 0 54 | 15 51 | 1 12 | 11 44 | 0 32 | 12 21 | 0 38 | 22 37 | 0 14 | 18 58 | 18 55 | 8 18 | 12 19 | 0 25 | T 20 |
| W21 | 20 34 | 18 59 | 3 55 | 13 13 | 4 20 | 22 31 | 0 57 | 12 21 | 1 8 | 14 1 | 0 54 | 15 48 | 1 12 | 11 44 | 0 32 | 12 22 | 0 38 | 22 37 | 0 14 | 18 59 | 18 56 | 8 16 | 12 19 | 0 25 | W21 |
| T 22 | 20 22 | 20 31 | 2 58 | 13 12 | 4 30 | 22 34 | 0 54 | 12 33 | 1 8 | 13 57 | 0 54 | 15 46 | 1 12 | 11 44 | 0 32 | 12 22 | 0 38 | 22 37 | 0 15 | 18 59 | 18 57 | 8 14 | 12 19 | 0 25 | T 22 |
| F 23 | 20 10 | 20 48 | 1 48 | 13 13 | 4 38 | 22 38 | 0 51 | 12 44 | 1 9 | 13 53 | 0 54 | 15 44 | 1 12 | 11 44 | 0 32 | 12 23 | 0 38 | 22 37 | 0 15 | 18 59 | 18 57 | 8 12 | 12 20 | 0 25 | F 23 |
| S 24 | 19 58 | 19 43 | 0 30 | 13 16 | 4 44 | 22 40 | 0 48 | 12 56 | 1 10 | 13 49 | 0 54 | 15 42 | 1 12 | 11 45 | 0 32 | 12 23 | 0 38 | 22 37 | 0 15 | 18 59 | 18 58 | 8 10 | 12 20 | 0 25 | S 24 |
| S 25 | 19 45 | 17 19 | 0n51 | 13 21 | 4 50 | 22 42 | 0 45 | 13 7 | 1 11 | 13 44 | 0 54 | 15 39 | 1 12 | 11 45 | 0 32 | 12 24 | 0 38 | 22 37 | 0 15 | 18 59 | 18 59 | 8 8 | 12 20 | 0 25 | S 25 |
| M26 | 19 32 | 13 44 | 2 10 | 13 28 | 4 53 | 22 43 | 0 43 | 13 19 | 1 12 | 13 40 | 0 54 | 15 37 | 1 12 | 11 45 | 0 32 | 12 24 | 0 38 | 22 37 | 0 15 | 18 59 | 19 0 | 8 6 | 12 20 | 0 26 | M26 |
| T 27 | 19 19 | 9 18 | 3 20 | 13 38 | 4 55 | 22 44 | 0 40 | 13 31 | 1 13 | 13 36 | 0 54 | 15 34 | 1 13 | 11 45 | 0 32 | 12 25 | 0 38 | 22 36 | 0 15 | 18 59 | 19 0 | 8 4 | 12 20 | 0 26 | T 27 |
| W28 | 19 5 | 4 21 | 4 16 | 13 49 | 4 55 | 22 44 | 0 37 | 13 42 | 1 13 | 13 32 | 0 54 | 15 32 | 1 13 | 11 45 | 0 32 | 12 25 | 0 38 | 22 36 | 0 15 | 18 59 | 19 1 | 8 2 | 12 20 | 0 26 | W28 |
| T 29 | 18 51 | 0s46 | 4 55 | 14 1 | 4 54 | 22 43 | 0 34 | 13 54 | 1 14 | 13 27 | 0 54 | 15 30 | 1 13 | 11 46 | 0 32 | 12 26 | 0 38 | 22 36 | 0 15 | 18 59 | 19 2 | 8 0 | 12 20 | 0 26 | T 29 |
| F 30 | 18 37 | 5 44 | 5 15 | 14 15 | 4 50 | 22 42 | 0 31 | 14 6 | 1 15 | 13 23 | 0 54 | 15 27 | 1 13 | 11 46 | 0 32 | 12 27 | 0 38 | 22 36 | 0 15 | 18 59 | 19 3 | 7 58 | 12 20 | 0 26 | F 30 |
| S 31 | 18n22 | 10s18 | 5n16 | 14n31 | 4s45 | 22n40 | 0s28 | 14s18 | 1s16 | 13n19 | 0n54 | 15n25 | 1n13 | 11n46 | 0s32 | 12s27 | 0s38 | 22n36 | 0n15 | 18n59 | 19n 4 | 7s56 | 12n21 | 0s26 | S 31 |

Julian Day Number = 2335944.5, Delta T = 21.72 sec
Ecliptic obliquity = 23°28'44, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'20, Lahiri = 19°26'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## AUGUST 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 38 45 | 8♌40'48 | 25♏ 6 | 3°R59 | 10♋42 | 5♏14 | 27♌25 | 21♌54 | 2♉13 | 28°R56 | 17♋23 | 5♌17 | 4♌54 | 18♓17 | 3♉39 | S 1 |
| M 2 | 20 42 42 | 9°38'16 | 8♐24 | 3♌20 | 11°54 | 5°47 | 27°38 | 22° 2 | 2°13 | 28♒54 | 17°25 | 5°17 | 4°51 | 18°24 | 3°39 | M 2 |
| T 3 | 20 46 38 | 10°35'46 | 21°24 | 2°46 | 13° 6 | 6°20 | 27°51 | 22° 9 | 2°13 | 28°53 | 17°26 | 5°18 | 4°48 | 18°30 | 3°40 | T 3 |
| W 4 | 20 50 35 | 11°33'16 | 4♑ 9 | 2°16 | 14°19 | 6°54 | 28° 3 | 22°17 | 2°14 | 28°51 | 17°28 | 5°18 | 4°45 | 18°37 | 3°40 | W 4 |
| T 5 | 20 54 31 | 12°30'47 | 16°41 | 1°51 | 15°31 | 7°28 | 28°16 | 22°24 | 2°14 | 28°50 | 17°29 | 5°19 | 4°41 | 18°44 | 3°40 | T 5 |
| F 6 | 20 58 28 | 13°28'20 | 29° 1 | 1°31 | 16°43 | 8° 2 | 28°29 | 22°32 | 2°14 | 28°48 | 17°31 | 5°19 | 4°38 | 18°50 | 3°40 | F 6 |
| S 7 | 21 2 24 | 14°25'53 | 11♒12 | 1°18 | 17°56 | 8°36 | 28°42 | 22°40 | 2°R14 | 28°46 | 17°32 | 5°R19 | 4°35 | 18°57 | 3°R40 | S 7 |
| S 8 | 21 6 21 | 15°23'27 | 23°14 | 1°D12 | 19° 8 | 9°10 | 28°54 | 22°47 | 2°14 | 28°45 | 17°34 | 5°19 | 4°32 | 19° 4 | 3°40 | S 8 |
| M 9 | 21 10 18 | 16°21'03 | 5♓ 9 | 1°12 | 20°21 | 9°44 | 29° 7 | 22°55 | 2°14 | 28°43 | 17°35 | 5°18 | 4°29 | 19°10 | 3°40 | M 9 |
| T 10 | 21 14 14 | 17°18'40 | 17° 1 | 1°20 | 21°34 | 10°19 | 29°20 | 23° 2 | 2°14 | 28°42 | 17°37 | 5°16 | 4°26 | 19°17 | 3°40 | T 10 |
| W11 | 21 18 11 | 18°16'18 | 28°51 | 1°34 | 22°46 | 10°54 | 29°33 | 23°10 | 2°13 | 28°40 | 17°38 | 5°14 | 4°22 | 19°24 | 3°40 | W11 |
| T 12 | 21 22 7 | 19°13'58 | 10♈42 | 1°56 | 23°59 | 11°29 | 29°46 | 23°18 | 2°13 | 28°38 | 17°39 | 5°12 | 4°19 | 19°30 | 3°40 | T 12 |
| F 13 | 21 26 4 | 20°11'39 | 22°37 | 2°25 | 25°12 | 12° 5 | 29°59 | 23°25 | 2°13 | 28°37 | 17°41 | 5°11 | 4°16 | 19°37 | 3°39 | F 13 |
| S 14 | 21 30 0 | 21° 9'22 | 4♉41 | 3° 2 | 26°25 | 12°40 | 0♍12 | 23°33 | 2°13 | 28°35 | 17°42 | 5° 9 | 4°13 | 19°44 | 3°39 | S 14 |
| S 15 | 21 33 57 | 22° 7'07 | 16°57 | 3°46 | 27°38 | 13°16 | 0°25 | 23°41 | 2°12 | 28°34 | 17°43 | 5°D 8 | 4°10 | 19°50 | 3°39 | S 15 |
| M16 | 21 37 53 | 23° 4'53 | 29°30 | 4°37 | 28°51 | 13°52 | 0°38 | 23°48 | 2°12 | 28°32 | 17°45 | 5° 9 | 4° 6 | 19°57 | 3°38 | M16 |
| T 17 | 21 41 50 | 24° 2'41 | 12♊23 | 5°35 | 0♌ 4 | 14°28 | 0°51 | 23°56 | 2°11 | 28°30 | 17°46 | 5° 9 | 4° 3 | 20° 4 | 3°38 | T 17 |
| W18 | 21 45 47 | 25° 0'30 | 25°39 | 6°39 | 1°17 | 15° 4 | 1° 4 | 24° 4 | 2°11 | 28°29 | 17°47 | 5°11 | 4° 0 | 20°11 | 3°37 | W18 |
| T 19 | 21 49 43 | 25°58'22 | 9♋23 | 7°50 | 2°30 | 15°41 | 1°17 | 24°11 | 2°10 | 28°27 | 17°49 | 5°12 | 3°57 | 20°17 | 3°36 | T 19 |
| F 20 | 21 53 40 | 26°56'15 | 23°32 | 9° 6 | 3°43 | 16°17 | 1°30 | 24°19 | 2°10 | 28°25 | 17°50 | 5°13 | 3°54 | 20°24 | 3°36 | F 20 |
| S 21 | 21 57 36 | 27°54'10 | 8♌ 7 | 10°29 | 4°56 | 16°54 | 1°43 | 24°27 | 2° 9 | 28°24 | 17°51 | 5°R13 | 3°51 | 20°31 | 3°35 | S 21 |
| S 22 | 22 1 33 | 28°52'06 | 23° 1 | 11°56 | 6° 9 | 17°31 | 1°56 | 24°34 | 2° 9 | 28°22 | 17°53 | 5°12 | 3°47 | 20°37 | 3°34 | S 22 |
| M23 | 22 5 29 | 29°50'04 | 8♍ 8 | 13°29 | 7°23 | 18° 8 | 2° 9 | 24°42 | 2° 8 | 28°20 | 17°54 | 5°10 | 3°44 | 20°44 | 3°33 | M23 |
| T 24 | 22 9 26 | 0♍48'04 | 23°17 | 15° 5 | 8°36 | 18°46 | 2°22 | 24°49 | 2° 7 | 28°19 | 17°55 | 5° 8 | 3°41 | 20°51 | 3°32 | T 24 |
| W25 | 22 13 22 | 1°46'05 | 8♎20 | 16°46 | 9°49 | 19°23 | 2°35 | 24°57 | 2° 6 | 28°17 | 17°56 | 5° 4 | 3°38 | 20°57 | 3°31 | W25 |
| T 26 | 22 17 19 | 2°44'07 | 23° 8 | 18°30 | 11° 3 | 20° 1 | 2°48 | 25° 5 | 2° 5 | 28°15 | 17°58 | 5° 0 | 3°35 | 21° 4 | 3°30 | T 26 |
| F 27 | 22 21 16 | 3°42'11 | 7♏34 | 20°17 | 12°16 | 20°39 | 3° 1 | 25°12 | 2° 4 | 28°14 | 17°59 | 4°57 | 3°31 | 21°11 | 3°29 | F 27 |
| S 28 | 22 25 12 | 4°40'16 | 21°36 | 22° 6 | 13°30 | 21°17 | 3°14 | 25°20 | 2° 3 | 28°12 | 18° 0 | 4°55 | 3°28 | 21°17 | 3°28 | S 28 |
| S 29 | 22 29 9 | 5°38'22 | 5♐12 | 23°57 | 14°43 | 21°55 | 3°27 | 25°27 | 2° 2 | 28°11 | 18° 1 | 4°D55 | 3°25 | 21°24 | 3°27 | S 29 |
| M30 | 22 33 5 | 6°36'30 | 18°23 | 25°50 | 15°57 | 22°33 | 3°40 | 25°35 | 2° 1 | 28° 9 | 18° 2 | 4°55 | 3°22 | 21°31 | 3°26 | M30 |
| T 31 | 22 37 2 | 7♍34'40 | 1♑13 | 27♌45 | 17♌11 | 23♏12 | 3♍53 | 25♌43 | 2♉ 0 | 28♒ 7 | 18♋ 3 | 4♌57 | 3♌19 | 21♓37 | 3♉24 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 7 | 14s14 | 4n59 | 14n47 | 4s38 | 22n37 | 0s25 | 14s29 | 1s17 | 13n14 | 0n54 | 15n23 | 1n13 | 11n46 | 0s32 | 12s28 | 0s38 | 22n36 | 0n15 | 18n59 | 19n 4 | 7s54 | 12n21 | 0s26 |
| M 2 | 17 52 | 17 22 | 4 26 | 15 4 | 4 29 | 22 34 | 0 23 | 14 41 | 1 17 | 13 10 | 0 54 | 15 20 | 1 13 | 11 46 | 0 32 | 12 28 | 0 38 | 22 36 | 0 15 | 18 59 | 19 5 | 7 52 | 12 21 | 0 26 |
| T 3 | 17 37 | 19 32 | 3 40 | 15 22 | 4 19 | 22 30 | 0 20 | 14 53 | 1 18 | 13 6 | 0 54 | 15 18 | 1 13 | 11 46 | 0 32 | 12 29 | 0 38 | 22 36 | 0 15 | 18 59 | 19 6 | 7 50 | 12 21 | 0 26 |
| W 4 | 17 21 | 20 40 | 2 44 | 15 40 | 4 8 | 22 26 | 0 17 | 15 5 | 1 19 | 13 1 | 0 54 | 15 15 | 1 13 | 11 46 | 0 32 | 12 29 | 0 38 | 22 35 | 0 15 | 18 58 | 19 7 | 7 48 | 12 21 | 0 27 |
| T 5 | 17 5 | 20 45 | 1 42 | 15 58 | 3 55 | 22 21 | 0 14 | 15 16 | 1 19 | 12 57 | 0 54 | 15 13 | 1 13 | 11 46 | 0 32 | 12 30 | 0 38 | 22 35 | 0 15 | 18 58 | 19 7 | 7 46 | 12 21 | 0 27 |
| F 6 | 16 48 | 19 49 | 0 35 | 16 16 | 3 41 | 22 15 | 0 11 | 15 28 | 1 20 | 12 52 | 0 54 | 15 10 | 1 13 | 11 46 | 0 32 | 12 30 | 0 38 | 22 35 | 0 16 | 18 58 | 19 8 | 7 44 | 12 20 | 0 27 |
| S 7 | 16 32 | 17 58 | 0s33 | 16 33 | 3 26 | 22 8 | 0 8 | 15 40 | 1 21 | 12 48 | 0 54 | 15 8 | 1 13 | 11 46 | 0 32 | 12 31 | 0 38 | 22 35 | 0 16 | 18 58 | 19 9 | 7 42 | 12 20 | 0 27 |
| S 8 | 16 15 | 15 20 | 1 38 | 16 50 | 3 10 | 22 1 | 0 5 | 15 51 | 1 21 | 12 43 | 0 54 | 15 6 | 1 13 | 11 46 | 0 32 | 12 32 | 0 38 | 22 35 | 0 16 | 18 58 | 19 10 | 7 39 | 12 20 | 0 27 |
| M 9 | 15 58 | 12 5 | 2 38 | 17 6 | 2 54 | 21 53 | 0 3 | 16 3 | 1 22 | 12 39 | 0 54 | 15 3 | 1 13 | 11 46 | 0 32 | 12 32 | 0 38 | 22 35 | 0 16 | 18 59 | 19 10 | 7 37 | 12 20 | 0 27 |
| T 10 | 15 40 | 8 22 | 3 31 | 17 21 | 2 37 | 21 45 | 0n 0 | 16 15 | 1 23 | 12 34 | 0 54 | 15 1 | 1 13 | 11 46 | 0 32 | 12 33 | 0 38 | 22 35 | 0 16 | 18 59 | 19 11 | 7 35 | 12 20 | 0 27 |
| W11 | 15 23 | 4 21 | 4 15 | 17 34 | 2 20 | 21 36 | 0 3 | 16 26 | 1 23 | 12 30 | 0 54 | 14 58 | 1 13 | 11 46 | 0 32 | 12 33 | 0 38 | 22 35 | 0 16 | 18 59 | 19 12 | 7 33 | 12 20 | 0 27 |
| T 12 | 15 5 | 0 10 | 4 48 | 17 46 | 2 2 | 21 26 | 0 6 | 16 38 | 1 24 | 12 25 | 0 55 | 14 56 | 1 13 | 11 46 | 0 32 | 12 34 | 0 38 | 22 34 | 0 16 | 19 0 | 19 13 | 7 31 | 12 20 | 0 27 |
| F 13 | 14 47 | 4n 2 | 5 8 | 17 57 | 1 45 | 21 16 | 0 8 | 16 49 | 1 24 | 12 21 | 0 55 | 14 53 | 1 13 | 11 46 | 0 32 | 12 34 | 0 38 | 22 34 | 0 16 | 19 0 | 19 13 | 7 29 | 12 19 | 0 28 |
| S 14 | 14 28 | 8 8 | 5 16 | 18 5 | 1 28 | 21 5 | 0 11 | 17 1 | 1 25 | 12 16 | 0 55 | 14 51 | 1 13 | 11 46 | 0 32 | 12 35 | 0 38 | 22 34 | 0 16 | 19 1 | 19 14 | 7 27 | 12 19 | 0 28 |
| S 15 | 14 10 | 11 59 | 5 9 | 18 11 | 1 11 | 20 54 | 0 14 | 17 12 | 1 25 | 12 12 | 0 55 | 14 48 | 1 14 | 11 45 | 0 32 | 12 36 | 0 38 | 22 34 | 0 16 | 19 1 | 19 15 | 7 25 | 12 19 | 0 28 |
| M16 | 13 51 | 15 23 | 4 48 | 18 16 | 0 55 | 20 42 | 0 16 | 17 24 | 1 26 | 12 7 | 0 55 | 14 46 | 1 14 | 11 45 | 0 32 | 12 36 | 0 38 | 22 34 | 0 16 | 19 1 | 19 16 | 7 23 | 12 19 | 0 28 |
| T 17 | 13 32 | 18 9 | 4 12 | 18 17 | 0 38 | 20 29 | 0 19 | 17 35 | 1 27 | 12 3 | 0 55 | 14 43 | 1 14 | 11 45 | 0 32 | 12 37 | 0 38 | 22 34 | 0 16 | 19 1 | 19 16 | 7 21 | 12 18 | 0 28 |
| W18 | 13 12 | 20 3 | 3 21 | 18 16 | 0 23 | 20 16 | 0 22 | 17 46 | 1 27 | 11 58 | 0 55 | 14 41 | 1 14 | 11 45 | 0 32 | 12 37 | 0 38 | 22 34 | 0 16 | 19 0 | 19 17 | 7 19 | 12 18 | 0 28 |
| T 19 | 12 53 | 20 51 | 2 18 | 18 13 | 0 8 | 20 2 | 0 24 | 17 57 | 1 28 | 11 53 | 0 55 | 14 38 | 1 14 | 11 45 | 0 32 | 12 38 | 0 38 | 22 34 | 0 16 | 19 0 | 19 18 | 7 17 | 12 18 | 0 28 |
| F 20 | 12 33 | 20 22 | 1 4 | 18 6 | 0n 6 | 19 47 | 0 27 | 18 9 | 1 28 | 11 49 | 0 55 | 14 36 | 1 14 | 11 44 | 0 32 | 12 38 | 0 38 | 22 34 | 0 16 | 19 0 | 19 19 | 7 15 | 12 17 | 0 28 |
| S 21 | 12 13 | 18 31 | 0n16 | 17 57 | 0 19 | 19 32 | 0 29 | 18 20 | 1 29 | 11 44 | 0 55 | 14 34 | 1 14 | 11 44 | 0 32 | 12 39 | 0 38 | 22 33 | 0 17 | 19 0 | 19 19 | 7 13 | 12 17 | 0 29 |
| S 22 | 11 53 | 15 23 | 1 36 | 17 45 | 0 32 | 19 17 | 0 32 | 18 31 | 1 29 | 11 40 | 0 55 | 14 31 | 1 14 | 11 44 | 0 32 | 12 40 | 0 38 | 22 33 | 0 17 | 19 0 | 19 20 | 7 10 | 12 17 | 0 29 |
| M23 | 11 33 | 11 11 | 2 51 | 17 30 | 0 43 | 19 1 | 0 34 | 18 42 | 1 29 | 11 35 | 0 55 | 14 29 | 1 14 | 11 44 | 0 32 | 12 40 | 0 38 | 22 33 | 0 17 | 19 0 | 19 21 | 7 8 | 12 16 | 0 29 |
| T 24 | 11 12 | 6 15 | 3 54 | 17 12 | 0 54 | 18 44 | 0 37 | 18 52 | 1 30 | 11 30 | 0 55 | 14 26 | 1 14 | 11 43 | 0 32 | 12 41 | 0 38 | 22 33 | 0 17 | 19 1 | 19 22 | 7 6 | 12 16 | 0 29 |
| W25 | 10 52 | 0 59 | 4 40 | 16 51 | 1 4 | 18 27 | 0 39 | 19 3 | 1 30 | 11 26 | 0 55 | 14 24 | 1 14 | 11 43 | 0 32 | 12 41 | 0 38 | 22 33 | 0 17 | 19 2 | 19 22 | 7 4 | 12 15 | 0 29 |
| T 26 | 10 31 | 4s15 | 5 7 | 16 27 | 1 12 | 18 9 | 0 41 | 19 14 | 1 31 | 11 21 | 0 55 | 14 21 | 1 14 | 11 43 | 0 32 | 12 42 | 0 38 | 22 33 | 0 17 | 19 3 | 19 23 | 7 2 | 12 15 | 0 29 |
| F 27 | 10 10 | 9 7 | 5 13 | 16 1 | 1 20 | 17 51 | 0 44 | 19 24 | 1 31 | 11 16 | 0 55 | 14 19 | 1 15 | 11 42 | 0 32 | 12 43 | 0 38 | 22 33 | 0 17 | 19 4 | 19 24 | 7 0 | 12 15 | 0 29 |
| S 28 | 9 49 | 13 21 | 5 0 | 15 32 | 1 27 | 17 32 | 0 46 | 19 35 | 1 32 | 11 12 | 0 55 | 14 16 | 1 15 | 11 42 | 0 32 | 12 43 | 0 38 | 22 33 | 0 17 | 19 4 | 19 25 | 6 58 | 12 14 | 0 29 |
| S 29 | 9 28 | 16 45 | 4 31 | 15 0 | 1 32 | 17 12 | 0 48 | 19 45 | 1 32 | 11 7 | 0 55 | 14 14 | 1 15 | 11 42 | 0 32 | 12 44 | 0 38 | 22 33 | 0 17 | 19 4 | 19 25 | 6 56 | 12 14 | 0 29 |
| M30 | 9 6 | 19 11 | 3 48 | 14 27 | 1 37 | 16 53 | 0 50 | 19 56 | 1 32 | 11 2 | 0 55 | 14 11 | 1 15 | 11 41 | 0 32 | 12 44 | 0 38 | 22 33 | 0 17 | 19 4 | 19 26 | 6 54 | 12 13 | 0 30 |
| T 31 | 8n44 | 20s34 | 2n54 | 13n51 | 1n41 | 16n32 | 0n52 | 20s 6 | 1s33 | 10n58 | 0n55 | 14n 9 | 1n15 | 11n41 | 0s32 | 12s45 | 0s38 | 22n33 | 0n17 | 19n 4 | 19n27 | 6s52 | 12n12 | 0s30 |

Julian Day Number = 2335975.5, Delta T = 21.67 sec
Ecliptic obliquity = 23°28'44, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'24, Lahiri = 19°26'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## SEPTEMBER 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 40 58 | 8♍32'51 | 13♉45 | 29♌40 | 18♌24 | 23♏50 | 4♍ 6 | 25♌50 | 1°R59 | 28°R 6 | 18♋ 4 | 4♌58 | 3♌16 | 21♓44 | 3°R23 | W 1 |
| T 2 | 22 44 55 | 9°31'03 | 26° 3 | 1♍35 | 19°38 | 24°29 | 4°19 | 25°58 | 1♉58 | 28♒ 4 | 18° 5 | 5° 0 | 3°12 | 21°51 | 3♉22 | T 2 |
| F 3 | 22 48 51 | 10°29'17 | 8♒10 | 3°31 | 20°52 | 25° 8 | 4°32 | 26° 5 | 1°57 | 28° 3 | 18° 7 | 5°R 0 | 3° 9 | 21°58 | 3°20 | F 3 |
| S 4 | 22 52 48 | 11°27'33 | 20° 9 | 5°27 | 22° 6 | 25°47 | 4°45 | 26°13 | 1°55 | 28° 1 | 18° 8 | 4°59 | 3° 6 | 22° 4 | 3°19 | S 4 |
| S 5 | 22 56 45 | 12°25'50 | 2♓ 3 | 7°22 | 23°20 | 26°26 | 4°58 | 26°20 | 1°54 | 27°59 | 18° 9 | 4°56 | 3° 3 | 22°11 | 3°17 | S 5 |
| M 6 | 23 0 41 | 13°24'09 | 13°55 | 9°17 | 24°33 | 27° 6 | 5°11 | 26°27 | 1°53 | 27°58 | 18°10 | 4°51 | 3° 0 | 22°18 | 3°16 | M 6 |
| T 7 | 23 4 38 | 14°22'30 | 25°45 | 11°12 | 25°47 | 27°45 | 5°24 | 26°35 | 1°51 | 27°56 | 18°11 | 4°45 | 2°57 | 22°24 | 3°14 | T 7 |
| W 8 | 23 8 34 | 15°20'53 | 7♈37 | 13° 6 | 27° 1 | 28°25 | 5°37 | 26°42 | 1°50 | 27°55 | 18°12 | 4°37 | 2°53 | 22°31 | 3°12 | W 8 |
| T 9 | 23 12 31 | 16°19'18 | 19°31 | 14°59 | 28°15 | 29° 5 | 5°50 | 26°50 | 1°48 | 27°53 | 18°13 | 4°29 | 2°50 | 22°38 | 3°10 | T 9 |
| F 10 | 23 16 27 | 17°17'44 | 1♉29 | 16°51 | 29°29 | 29°45 | 6° 3 | 26°57 | 1°47 | 27°52 | 18°13 | 4°22 | 2°47 | 22°44 | 3° 9 | F 10 |
| S 11 | 23 20 24 | 18°16'13 | 13°36 | 18°43 | 0♍44 | 0♐25 | 6°16 | 27° 4 | 1°45 | 27°50 | 18°14 | 4°16 | 2°44 | 22°51 | 3° 7 | S 11 |
| S 12 | 23 24 20 | 19°14'44 | 25°52 | 20°33 | 1°58 | 1° 5 | 6°29 | 27°12 | 1°44 | 27°49 | 18°15 | 4°11 | 2°41 | 22°58 | 3° 5 | S 12 |
| M13 | 23 28 17 | 20°13'17 | 8♊23 | 22°23 | 3°12 | 1°45 | 6°42 | 27°19 | 1°42 | 27°47 | 18°16 | 4° 8 | 2°37 | 23° 4 | 3° 3 | M13 |
| T 14 | 23 32 13 | 21°11'53 | 21°11 | 24°12 | 4°26 | 2°26 | 6°54 | 27°26 | 1°40 | 27°46 | 18°17 | 4°D 8 | 2°34 | 23°11 | 3° 1 | T 14 |
| W15 | 23 36 10 | 22°10'31 | 4♋20 | 25°59 | 5°40 | 3° 6 | 7° 7 | 27°33 | 1°39 | 27°44 | 18°18 | 4° 8 | 2°31 | 23°18 | 2°59 | W15 |
| T 16 | 23 40 7 | 23° 9'11 | 17°54 | 27°46 | 6°55 | 3°47 | 7°20 | 27°41 | 1°37 | 27°43 | 18°19 | 4° 9 | 2°28 | 23°25 | 2°57 | T 16 |
| F 17 | 23 44 3 | 24° 7'53 | 1♌55 | 29°31 | 8° 9 | 4°28 | 7°33 | 27°48 | 1°35 | 27°41 | 18°19 | 4°R10 | 2°25 | 23°31 | 2°55 | F 17 |
| S 18 | 23 48 0 | 25° 6'37 | 16°23 | 1♎16 | 9°23 | 5° 9 | 7°46 | 27°55 | 1°33 | 27°40 | 18°20 | 4° 9 | 2°22 | 23°38 | 2°53 | S 18 |
| S 19 | 23 51 56 | 26° 5'24 | 1♍14 | 3° 0 | 10°38 | 5°50 | 7°58 | 28° 2 | 1°31 | 27°38 | 18°21 | 4° 7 | 2°18 | 23°45 | 2°50 | S 19 |
| M20 | 23 55 53 | 27° 4'12 | 16°23 | 4°42 | 11°52 | 6°31 | 8°11 | 28° 9 | 1°30 | 27°37 | 18°22 | 4° 2 | 2°15 | 23°51 | 2°48 | M20 |
| T 21 | 23 59 49 | 28° 3'03 | 1♎40 | 6°24 | 13° 7 | 7°12 | 8°24 | 28°16 | 1°28 | 27°36 | 18°22 | 3°55 | 2°12 | 23°58 | 2°46 | T 21 |
| W22 | 0 3 46 | 29° 1'56 | 16°55 | 8° 5 | 14°21 | 7°54 | 8°36 | 28°23 | 1°26 | 27°34 | 18°23 | 3°47 | 2° 9 | 24° 5 | 2°44 | W22 |
| T 23 | 0 7 42 | 0♎ 0'50 | 1♏57 | 9°44 | 15°36 | 8°35 | 8°49 | 28°30 | 1°24 | 27°33 | 18°24 | 3°38 | 2° 6 | 24°11 | 2°41 | T 23 |
| F 24 | 0 11 39 | 0°59'47 | 16°36 | 11°23 | 16°50 | 9°17 | 9° 1 | 28°37 | 1°22 | 27°32 | 18°24 | 3°30 | 2° 3 | 24°18 | 2°39 | F 24 |
| S 25 | 0 15 36 | 1°58'45 | 0♐48 | 13° 1 | 18° 5 | 9°59 | 9°14 | 28°44 | 1°20 | 27°30 | 18°25 | 3°24 | 1°59 | 24°25 | 2°36 | S 25 |
| S 26 | 0 19 32 | 2°57'45 | 14°31 | 14°39 | 19°20 | 10°40 | 9°26 | 28°50 | 1°18 | 27°29 | 18°25 | 3°21 | 1°56 | 24°31 | 2°34 | S 26 |
| M27 | 0 23 29 | 3°56'47 | 27°45 | 16°15 | 20°34 | 11°22 | 9°39 | 28°57 | 1°15 | 27°28 | 18°26 | 3°19 | 1°53 | 24°38 | 2°31 | M27 |
| T 28 | 0 27 25 | 4°55'51 | 10♉33 | 17°50 | 21°49 | 12° 5 | 9°51 | 29° 4 | 1°13 | 27°27 | 18°27 | 3°D19 | 1°50 | 24°45 | 2°29 | T 28 |
| W29 | 0 31 22 | 5°54'56 | 23° 1 | 19°25 | 23° 4 | 12°47 | 10° 4 | 29°10 | 1°11 | 27°25 | 18°27 | 3°20 | 1°47 | 24°52 | 2°26 | W29 |
| T 30 | 0 35 18 | 6♎54'03 | 5♒12 | 20♎59 | 24♍19 | 13♐29 | 10♍16 | 29♌17 | 1♉ 9 | 27♒24 | 18♋28 | 3°R20 | 1♌43 | 24♓58 | 2♉24 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 8n23 | 20s53 | 1n54 | 13n14 | 1n44 | 16n12 | 0n54 | 20s16 | 1s33 | 10n53 | 0n55 | 14n 6 | 1n15 | 11n41 | 0s32 | 12s45 | 0s38 | 22n32 | 0n17 | 19n 3 | 19n28 | 6s49 | 12n12 | 0s30 |
| T 2 | 8 1 | 20 11 | 0 49 | 12 35 | 1 46 | 15 51 | 0 56 | 20 26 | 1 33 | 10 48 | 0 56 | 14 4 | 1 15 | 11 40 | 0 32 | 12 46 | 0 38 | 22 32 | 0 17 | 19 3 | 19 28 | 6 47 | 12 11 | 0 30 |
| F 3 | 7 39 | 18 32 | 0s17 | 11 54 | 1 47 | 15 29 | 0 58 | 20 36 | 1 34 | 10 43 | 0 56 | 14 1 | 1 15 | 11 40 | 0 32 | 12 47 | 0 38 | 22 32 | 0 17 | 19 3 | 19 29 | 6 45 | 12 11 | 0 30 |
| S 4 | 7 17 | 16 5 | 1 22 | 11 12 | 1 48 | 15 7 | 1 0 | 20 46 | 1 34 | 10 39 | 0 56 | 13 59 | 1 15 | 11 39 | 0 32 | 12 47 | 0 38 | 22 32 | 0 17 | 19 3 | 19 30 | 6 43 | 12 10 | 0 30 |
| S 5 | 6 54 | 12 58 | 2 22 | 10 29 | 1 48 | 14 44 | 1 2 | 20 55 | 1 34 | 10 34 | 0 56 | 13 56 | 1 15 | 11 39 | 0 32 | 12 48 | 0 38 | 22 32 | 0 18 | 19 4 | 19 31 | 6 41 | 12 9 | 0 30 |
| M 6 | 6 32 | 9 21 | 3 16 | 9 45 | 1 47 | 14 21 | 1 4 | 21 5 | 1 35 | 10 29 | 0 56 | 13 54 | 1 15 | 11 38 | 0 32 | 12 48 | 0 38 | 22 32 | 0 18 | 19 5 | 19 31 | 6 39 | 12 9 | 0 30 |
| T 7 | 6 10 | 5 22 | 4 1 | 9 0 | 1 45 | 13 58 | 1 5 | 21 14 | 1 35 | 10 25 | 0 56 | 13 52 | 1 16 | 11 38 | 0 32 | 12 49 | 0 38 | 22 32 | 0 18 | 19 7 | 19 32 | 6 37 | 12 8 | 0 30 |
| W 8 | 5 47 | 1 12 | 4 35 | 8 14 | 1 43 | 13 34 | 1 7 | 21 23 | 1 35 | 10 20 | 0 56 | 13 49 | 1 16 | 11 37 | 0 33 | 12 49 | 0 38 | 22 32 | 0 18 | 19 8 | 19 33 | 6 35 | 12 7 | 0 31 |
| T 9 | 5 24 | 3n 2 | 4 58 | 7 28 | 1 41 | 13 10 | 1 8 | 21 32 | 1 35 | 10 15 | 0 56 | 13 47 | 1 16 | 11 37 | 0 33 | 12 50 | 0 38 | 22 32 | 0 18 | 19 10 | 19 33 | 6 33 | 12 7 | 0 31 |
| F 10 | 5 2 | 7 11 | 5 8 | 6 42 | 1 38 | 12 46 | 1 10 | 21 41 | 1 36 | 10 11 | 0 56 | 13 44 | 1 16 | 11 36 | 0 33 | 12 50 | 0 38 | 22 32 | 0 18 | 19 12 | 19 34 | 6 30 | 12 6 | 0 31 |
| S 11 | 4 39 | 11 6 | 5 5 | 5 55 | 1 34 | 12 21 | 1 12 | 21 50 | 1 36 | 10 6 | 0 56 | 13 42 | 1 16 | 11 36 | 0 33 | 12 51 | 0 38 | 22 32 | 0 18 | 19 14 | 19 35 | 6 28 | 12 5 | 0 31 |
| S 12 | 4 16 | 14 36 | 4 47 | 5 8 | 1 30 | 11 56 | 1 13 | 21 59 | 1 36 | 10 1 | 0 56 | 13 39 | 1 16 | 11 35 | 0 33 | 12 51 | 0 39 | 22 32 | 0 18 | 19 15 | 19 36 | 6 26 | 12 5 | 0 31 |
| M13 | 3 53 | 17 32 | 4 16 | 4 21 | 1 26 | 11 30 | 1 14 | 22 7 | 1 36 | 9 56 | 0 56 | 13 37 | 1 16 | 11 35 | 0 33 | 12 52 | 0 39 | 22 32 | 0 18 | 19 15 | 19 36 | 6 24 | 12 4 | 0 31 |
| T 14 | 3 30 | 19 41 | 3 31 | 3 33 | 1 21 | 11 4 | 1 16 | 22 16 | 1 37 | 9 52 | 0 56 | 13 35 | 1 16 | 11 34 | 0 33 | 12 52 | 0 39 | 22 32 | 0 18 | 19 15 | 19 37 | 6 22 | 12 3 | 0 31 |
| W15 | 3 7 | 20 51 | 2 34 | 2 46 | 1 16 | 10 38 | 1 17 | 22 24 | 1 37 | 9 47 | 0 56 | 13 32 | 1 17 | 11 33 | 0 33 | 12 53 | 0 39 | 22 32 | 0 18 | 19 15 | 19 38 | 6 20 | 12 2 | 0 31 |
| T 16 | 2 43 | 20 51 | 1 27 | 1 59 | 1 11 | 10 12 | 1 18 | 22 32 | 1 37 | 9 42 | 0 57 | 13 30 | 1 17 | 11 33 | 0 33 | 12 53 | 0 39 | 22 32 | 0 18 | 19 15 | 19 39 | 6 18 | 12 1 | 0 31 |
| F 17 | 2 20 | 19 34 | 0 12 | 1 12 | 1 6 | 9 45 | 1 19 | 22 40 | 1 37 | 9 38 | 0 57 | 13 28 | 1 17 | 11 32 | 0 33 | 12 54 | 0 39 | 22 32 | 0 18 | 19 15 | 19 39 | 6 15 | 12 1 | 0 32 |
| S 18 | 1 57 | 16 59 | 1n 5 | 0 25 | 1 0 | 9 18 | 1 20 | 22 47 | 1 37 | 9 33 | 0 57 | 13 25 | 1 17 | 11 31 | 0 33 | 12 54 | 0 39 | 22 32 | 0 18 | 19 15 | 19 40 | 6 13 | 12 0 | 0 32 |
| S 19 | 1 33 | 13 14 | 2 20 | 0s22 | 0 54 | 8 51 | 1 21 | 22 55 | 1 37 | 9 28 | 0 57 | 13 23 | 1 17 | 11 31 | 0 33 | 12 55 | 0 39 | 22 32 | 0 18 | 19 16 | 19 41 | 6 11 | 11 59 | 0 32 |
| M20 | 1 10 | 8 33 | 3 27 | 1 9 | 0 48 | 8 23 | 1 22 | 23 2 | 1 38 | 9 24 | 0 57 | 13 21 | 1 17 | 11 30 | 0 33 | 12 55 | 0 39 | 22 31 | 0 19 | 19 17 | 19 41 | 6 9 | 11 58 | 0 32 |
| T 21 | 0 47 | 3 18 | 4 19 | 1 55 | 0 41 | 7 55 | 1 23 | 23 9 | 1 38 | 9 19 | 0 57 | 13 18 | 1 17 | 11 29 | 0 33 | 12 56 | 0 39 | 22 31 | 0 19 | 19 18 | 19 42 | 6 7 | 11 57 | 0 32 |
| W22 | 0 23 | 2s 9 | 4 52 | 2 41 | 0 35 | 7 27 | 1 24 | 23 16 | 1 38 | 9 14 | 0 57 | 13 16 | 1 17 | 11 29 | 0 33 | 12 56 | 0 39 | 22 31 | 0 19 | 19 20 | 19 43 | 6 5 | 11 56 | 0 32 |
| T 23 | 0s 0 | 7 23 | 5 5 | 3 26 | 0 28 | 6 59 | 1 24 | 23 23 | 1 38 | 9 10 | 0 57 | 13 14 | 1 18 | 11 28 | 0 33 | 12 57 | 0 39 | 22 31 | 0 19 | 19 22 | 19 44 | 6 2 | 11 55 | 0 32 |
| F 24 | 0 24 | 12 4 | 4 58 | 4 11 | 0 21 | 6 30 | 1 25 | 23 30 | 1 38 | 9 5 | 0 57 | 13 11 | 1 18 | 11 27 | 0 33 | 12 57 | 0 39 | 22 31 | 0 19 | 19 24 | 19 44 | 6 0 | 11 54 | 0 32 |
| S 25 | 0 47 | 15 55 | 4 32 | 4 56 | 0 15 | 6 2 | 1 26 | 23 36 | 1 38 | 9 1 | 0 57 | 13 9 | 1 18 | 11 27 | 0 33 | 12 58 | 0 39 | 22 31 | 0 19 | 19 26 | 19 45 | 5 58 | 11 53 | 0 32 |
| S 26 | 1 11 | 18 46 | 3 51 | 5 40 | 0 8 | 5 33 | 1 26 | 23 42 | 1 38 | 8 56 | 0 58 | 13 7 | 1 18 | 11 26 | 0 33 | 12 58 | 0 39 | 22 31 | 0 19 | 19 26 | 19 46 | 5 56 | 11 52 | 0 33 |
| M27 | 1 34 | 20 29 | 2 58 | 6 24 | 0 1 | 5 4 | 1 26 | 23 48 | 1 38 | 8 51 | 0 58 | 13 5 | 1 18 | 11 25 | 0 33 | 12 59 | 0 38 | 22 31 | 0 19 | 19 27 | 19 46 | 5 54 | 11 51 | 0 33 |
| T 28 | 1 58 | 21 5 | 1 59 | 7 7 | 0s 6 | 4 35 | 1 27 | 23 54 | 1 38 | 8 47 | 0 58 | 13 3 | 1 18 | 11 24 | 0 33 | 12 59 | 0 38 | 22 31 | 0 19 | 19 27 | 19 47 | 5 52 | 11 51 | 0 33 |
| W29 | 2 21 | 20 37 | 0 55 | 7 49 | 0 14 | 4 5 | 1 27 | 24 0 | 1 38 | 8 42 | 0 58 | 13 0 | 1 18 | 11 24 | 0 33 | 12 59 | 0 38 | 22 31 | 0 19 | 19 27 | 19 48 | 5 49 | 11 50 | 0 33 |
| T 30 | 2s45 | 19s10 | 0s10 | 8s31 | 0s21 | 3n36 | 1n27 | 24s 5 | 1s38 | 8n38 | 0n58 | 12n58 | 1n19 | 11n23 | 0s33 | 13s 0 | 0s38 | 22n31 | 0n19 | 19n27 | 19n49 | 5s47 | 11n49 | 0s33 |

Julian Day Number = 2336006.5, Delta T = 21.63 sec
Ecliptic obliquity = 23°28'45, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'29, Lahiri = 19°26'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## OCTOBER 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 39 15 | 7♎53'12 | 17♒12 | 22♎32 | 25♍33 | 14♐12 | 10♍28 | 29♌24 | 1°R 7 | 27°R23 | 18♋28 | 3°R19 | 1♌40 | 25♓ 5 | 2°R21 | F 1 |
| S 2 | 0 43 11 | 8°52'23 | 29° 5 | 24° 4 | 26°48 | 14°54 | 10°40 | 29°30 | 1♉ 5 | 27♒22 | 18°28 | 3♌16 | 1°37 | 25°12 | 2♉18 | S 2 |
| S 3 | 0 47 8 | 9°51'36 | 10♓55 | 25°35 | 28° 3 | 15°37 | 10°53 | 29°37 | 1° 2 | 27°21 | 18°29 | 3°10 | 1°34 | 25°18 | 2°16 | S 3 |
| M 4 | 0 51 5 | 10°50'50 | 22°45 | 27° 6 | 29°18 | 16°19 | 11° 5 | 29°43 | 1° 0 | 27°20 | 18°29 | 3° 1 | 1°31 | 25°25 | 2°13 | M 4 |
| T 5 | 0 55 1 | 11°50'06 | 4♈37 | 28°36 | 0♎33 | 17° 2 | 11°17 | 29°49 | 0°58 | 27°19 | 18°30 | 2°50 | 1°28 | 25°32 | 2°10 | T 5 |
| W 6 | 0 58 58 | 12°49'25 | 16°33 | 0♏ 5 | 1°48 | 17°45 | 11°29 | 29°56 | 0°56 | 27°18 | 18°30 | 2°38 | 1°24 | 25°38 | 2° 7 | W 6 |
| T 7 | 1 2 54 | 13°48'46 | 28°34 | 1°33 | 3° 2 | 18°28 | 11°41 | 0♍ 2 | 0°53 | 27°17 | 18°30 | 2°24 | 1°21 | 25°45 | 2° 5 | T 7 |
| F 8 | 1 6 51 | 14°48'08 | 10♉41 | 3° 1 | 4°17 | 19°11 | 11°53 | 0° 8 | 0°51 | 27°16 | 18°31 | 2°11 | 1°18 | 25°52 | 2° 2 | F 8 |
| S 9 | 1 10 47 | 15°47'33 | 22°55 | 4°27 | 5°32 | 19°54 | 12° 4 | 0°14 | 0°49 | 27°15 | 18°31 | 2° 0 | 1°15 | 25°58 | 1°59 | S 9 |
| S 10 | 1 14 44 | 16°47'00 | 5♊19 | 5°53 | 6°47 | 20°38 | 12°16 | 0°20 | 0°46 | 27°14 | 18°31 | 1°51 | 1°12 | 26° 5 | 1°56 | S 10 |
| M11 | 1 18 40 | 17°46'30 | 17°54 | 7°18 | 8° 2 | 21°21 | 12°28 | 0°26 | 0°44 | 27°13 | 18°31 | 1°45 | 1° 8 | 26°12 | 1°53 | M11 |
| T 12 | 1 22 37 | 18°46'02 | 0♋44 | 8°42 | 9°17 | 22° 5 | 12°40 | 0°32 | 0°41 | 27°12 | 18°32 | 1°42 | 1° 5 | 26°19 | 1°50 | T 12 |
| W13 | 1 26 33 | 19°45'36 | 13°50 | 10° 6 | 10°32 | 22°48 | 12°51 | 0°38 | 0°39 | 27°11 | 18°32 | 1°41 | 1° 2 | 26°25 | 1°47 | W13 |
| T 14 | 1 30 30 | 20°45'12 | 27°16 | 11°28 | 11°47 | 23°32 | 13° 3 | 0°44 | 0°37 | 27°10 | 18°32 | 1°41 | 0°59 | 26°32 | 1°45 | T 14 |
| F 15 | 1 34 27 | 21°44'51 | 11♌ 5 | 12°49 | 13° 3 | 24°15 | 13°14 | 0°50 | 0°34 | 27° 9 | 18°32 | 1°40 | 0°56 | 26°39 | 1°42 | F 15 |
| S 16 | 1 38 23 | 22°44'32 | 25°18 | 14°10 | 14°18 | 24°59 | 13°26 | 0°56 | 0°32 | 27° 9 | 18°32 | 1°39 | 0°53 | 26°45 | 1°39 | S 16 |
| S 17 | 1 42 20 | 23°44'15 | 9♍54 | 15°29 | 15°33 | 25°43 | 13°37 | 1° 1 | 0°29 | 27° 8 | 18°32 | 1°35 | 0°49 | 26°52 | 1°36 | S 17 |
| M18 | 1 46 16 | 24°44'00 | 24°49 | 16°47 | 16°48 | 26°27 | 13°49 | 1° 7 | 0°27 | 27° 7 | 18°32 | 1°28 | 0°46 | 26°59 | 1°33 | M18 |
| T 19 | 1 50 13 | 25°43'48 | 9♎56 | 18° 4 | 18° 3 | 27°11 | 14° 0 | 1°12 | 0°24 | 27° 7 | 18°R32 | 1°19 | 0°43 | 27° 5 | 1°30 | T 19 |
| W20 | 1 54 9 | 26°43'37 | 25° 6 | 19°19 | 19°18 | 27°55 | 14°11 | 1°18 | 0°22 | 27° 6 | 18°32 | 1° 7 | 0°40 | 27°12 | 1°27 | W20 |
| T 21 | 1 58 6 | 27°43'29 | 10♏ 7 | 20°33 | 20°34 | 28°40 | 14°22 | 1°23 | 0°19 | 27° 5 | 18°32 | 0°56 | 0°37 | 27°19 | 1°24 | T 21 |
| F 22 | 2 2 2 | 28°43'23 | 24°51 | 21°45 | 21°49 | 29°24 | 14°33 | 1°28 | 0°17 | 27° 5 | 18°32 | 0°45 | 0°34 | 27°26 | 1°21 | F 22 |
| S 23 | 2 5 59 | 29°43'18 | 9♐ 9 | 22°56 | 23° 4 | 0♑ 8 | 14°44 | 1°33 | 0°15 | 27° 4 | 18°32 | 0°36 | 0°30 | 27°32 | 1°18 | S 23 |
| S 24 | 2 9 56 | 0♏43'15 | 22°58 | 24° 5 | 24°19 | 0°53 | 14°55 | 1°39 | 0°12 | 27° 4 | 18°32 | 0°30 | 0°27 | 27°39 | 1°15 | S 24 |
| M25 | 2 13 52 | 1°43'14 | 6♑18 | 25°11 | 25°35 | 1°37 | 15° 6 | 1°44 | 0°10 | 27° 3 | 18°32 | 0°26 | 0°24 | 27°46 | 1°12 | M25 |
| T 26 | 2 17 49 | 2°43'15 | 19°10 | 26°15 | 26°50 | 2°22 | 15°16 | 1°49 | 0° 7 | 27° 3 | 18°32 | 0°25 | 0°21 | 27°52 | 1° 9 | T 26 |
| W27 | 2 21 45 | 3°43'17 | 1♒40 | 27°16 | 28° 5 | 3° 7 | 15°27 | 1°54 | 0° 5 | 27° 2 | 18°32 | 0°24 | 0°18 | 27°59 | 1° 6 | W27 |
| T 28 | 2 25 42 | 4°43'20 | 13°51 | 28°15 | 29°20 | 3°51 | 15°37 | 1°58 | 0° 2 | 27° 2 | 18°31 | 0°24 | 0°14 | 28° 6 | 1° 3 | T 28 |
| F 29 | 2 29 38 | 5°43'26 | 25°50 | 29°10 | 0♏36 | 4°36 | 15°48 | 2° 3 | 29♈59 | 27° 1 | 18°31 | 0°23 | 0°11 | 28°12 | 1° 0 | F 29 |
| S 30 | 2 33 35 | 6°43'32 | 7♓42 | 0♐ 1 | 1°51 | 5°21 | 15°58 | 2° 8 | 29°57 | 27° 1 | 18°31 | 0°19 | 0° 8 | 28°19 | 0°57 | S 30 |
| S 31 | 2 37 31 | 7♏43'41 | 19♓31 | 0♐48 | 3♏ 6 | 6♑ 6 | 16♍ 8 | 2♍12 | 29♈55 | 27♒ 1 | 18♋31 | 0♌13 | 0♌ 5 | 28♓26 | 0♉54 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3s 8 | 16s52 | 1s13 | 9s13 | 0s28 | 3n 6 | 1n28 | 24s10 | 1s39 | 8n33 | 0n58 | 12n56 | 1n19 | 11n22 | 0s33 | 13s 0 | 0s38 | 22n31 | 0n19 | 19n27 | 19n49 | 5s45 | 11n48 | 0s33 |
| S 2 | 3 31 | 13 53 | 2 13 | 9 54 | 0 35 | 2 37 | 1 28 | 24 15 | 1 39 | 8 29 | 0 58 | 12 54 | 1 19 | 11 21 | 0 33 | 13 1 | 0 38 | 22 31 | 0 19 | 19 28 | 19 50 | 5 43 | 11 47 | 0 33 |
| S 3 | 3 55 | 10 21 | 3 6 | 10 34 | 0 42 | 2 7 | 1 28 | 24 20 | 1 39 | 8 24 | 0 58 | 12 52 | 1 19 | 11 21 | 0 33 | 13 1 | 0 38 | 22 31 | 0 19 | 19 29 | 19 51 | 5 41 | 11 46 | 0 33 |
| M 4 | 4 18 | 6 25 | 3 51 | 11 13 | 0 49 | 1 37 | 1 28 | 24 25 | 1 39 | 8 20 | 0 59 | 12 50 | 1 19 | 11 20 | 0 33 | 13 1 | 0 38 | 22 31 | 0 20 | 19 31 | 19 51 | 5 39 | 11 44 | 0 33 |
| T 5 | 4 41 | 2 14 | 4 26 | 11 52 | 0 56 | 1 7 | 1 28 | 24 29 | 1 39 | 8 15 | 0 59 | 12 47 | 1 19 | 11 19 | 0 33 | 13 2 | 0 38 | 22 31 | 0 20 | 19 33 | 19 52 | 5 36 | 11 43 | 0 33 |
| W 6 | 5 4 | 2n 3 | 4 50 | 12 30 | 1 3 | 0 37 | 1 27 | 24 33 | 1 39 | 8 11 | 0 59 | 12 45 | 1 20 | 11 18 | 0 33 | 13 2 | 0 38 | 22 31 | 0 20 | 19 36 | 19 53 | 5 34 | 11 42 | 0 34 |
| T 7 | 5 28 | 6 18 | 5 0 | 13 8 | 1 10 | 0 7 | 1 27 | 24 37 | 1 39 | 8 6 | 0 59 | 12 43 | 1 20 | 11 17 | 0 33 | 13 2 | 0 38 | 22 31 | 0 20 | 19 39 | 19 53 | 5 32 | 11 41 | 0 34 |
| F 8 | 5 51 | 10 20 | 4 58 | 13 45 | 1 17 | 0s23 | 1 27 | 24 40 | 1 38 | 8 2 | 0 59 | 12 41 | 1 20 | 11 17 | 0 33 | 13 3 | 0 38 | 22 32 | 0 20 | 19 42 | 19 54 | 5 30 | 11 40 | 0 34 |
| S 9 | 6 13 | 13 59 | 4 42 | 14 20 | 1 24 | 0 53 | 1 26 | 24 44 | 1 38 | 7 57 | 0 59 | 12 39 | 1 20 | 11 16 | 0 33 | 13 3 | 0 38 | 22 32 | 0 20 | 19 45 | 19 55 | 5 28 | 11 39 | 0 34 |
| S 10 | 6 36 | 17 5 | 4 12 | 14 56 | 1 30 | 1 23 | 1 26 | 24 47 | 1 38 | 7 53 | 0 59 | 12 37 | 1 20 | 11 15 | 0 33 | 13 3 | 0 38 | 22 32 | 0 20 | 19 47 | 19 56 | 5 25 | 11 38 | 0 34 |
| M11 | 6 59 | 19 27 | 3 30 | 15 30 | 1 37 | 1 53 | 1 26 | 24 50 | 1 38 | 7 48 | 0 59 | 12 35 | 1 20 | 11 14 | 0 33 | 13 4 | 0 38 | 22 32 | 0 20 | 19 48 | 19 56 | 5 23 | 11 37 | 0 34 |
| T 12 | 7 22 | 20 53 | 2 36 | 16 3 | 1 43 | 2 23 | 1 25 | 24 53 | 1 38 | 7 44 | 1 0 | 12 33 | 1 21 | 11 13 | 0 33 | 13 4 | 0 38 | 22 32 | 0 20 | 19 49 | 19 57 | 5 21 | 11 36 | 0 34 |
| W13 | 7 44 | 21 13 | 1 33 | 16 36 | 1 50 | 2 53 | 1 24 | 24 55 | 1 38 | 7 40 | 1 0 | 12 31 | 1 21 | 11 12 | 0 33 | 13 4 | 0 38 | 22 32 | 0 20 | 19 49 | 19 58 | 5 19 | 11 35 | 0 34 |
| T 14 | 8 7 | 20 22 | 0 23 | 17 8 | 1 56 | 3 23 | 1 24 | 24 57 | 1 38 | 7 35 | 1 0 | 12 30 | 1 21 | 11 12 | 0 33 | 13 5 | 0 38 | 22 32 | 0 20 | 19 49 | 19 58 | 5 17 | 11 34 | 0 34 |
| F 15 | 8 29 | 18 16 | 0n50 | 17 39 | 2 2 | 3 53 | 1 23 | 24 59 | 1 38 | 7 31 | 1 0 | 12 28 | 1 21 | 11 11 | 0 33 | 13 5 | 0 38 | 22 32 | 0 20 | 19 49 | 19 59 | 5 14 | 11 33 | 0 34 |
| S 16 | 8 52 | 15 1 | 2 1 | 18 8 | 2 7 | 4 23 | 1 22 | 25 1 | 1 38 | 7 27 | 1 0 | 12 26 | 1 21 | 11 10 | 0 33 | 13 5 | 0 38 | 22 32 | 0 20 | 19 50 | 20 0 | 5 12 | 11 32 | 0 35 |
| S 17 | 9 14 | 10 45 | 3 7 | 18 37 | 2 13 | 4 53 | 1 21 | 25 2 | 1 38 | 7 23 | 1 0 | 12 24 | 1 21 | 11 9 | 0 33 | 13 5 | 0 38 | 22 32 | 0 20 | 19 50 | 20 0 | 5 10 | 11 30 | 0 35 |
| M18 | 9 36 | 5 46 | 4 2 | 19 5 | 2 18 | 5 23 | 1 20 | 25 3 | 1 38 | 7 18 | 1 0 | 12 22 | 1 22 | 11 8 | 0 33 | 13 6 | 0 38 | 22 32 | 0 21 | 19 52 | 20 1 | 5 8 | 11 29 | 0 35 |
| T 19 | 9 58 | 0 21 | 4 40 | 19 32 | 2 23 | 5 52 | 1 19 | 25 4 | 1 37 | 7 14 | 1 1 | 12 20 | 1 22 | 11 7 | 0 33 | 13 6 | 0 38 | 22 32 | 0 21 | 19 54 | 20 2 | 5 5 | 11 28 | 0 35 |
| W20 | 10 19 | 5s 6 | 4 59 | 19 57 | 2 28 | 6 22 | 1 18 | 25 5 | 1 37 | 7 10 | 1 1 | 12 19 | 1 22 | 11 7 | 0 33 | 13 6 | 0 38 | 22 32 | 0 21 | 19 57 | 20 3 | 5 3 | 11 27 | 0 35 |
| T 21 | 10 41 | 10 11 | 4 56 | 20 22 | 2 32 | 6 51 | 1 17 | 25 5 | 1 37 | 7 6 | 1 1 | 12 17 | 1 22 | 11 6 | 0 33 | 13 6 | 0 38 | 22 32 | 0 21 | 19 59 | 20 3 | 5 1 | 11 26 | 0 35 |
| F 22 | 11 2 | 14 34 | 4 34 | 20 45 | 2 36 | 7 20 | 1 16 | 25 6 | 1 37 | 7 2 | 1 1 | 12 15 | 1 22 | 11 5 | 0 33 | 13 6 | 0 38 | 22 32 | 0 21 | 20 1 | 20 4 | 4 59 | 11 25 | 0 35 |
| S 23 | 11 24 | 17 59 | 3 56 | 21 7 | 2 40 | 7 49 | 1 15 | 25 5 | 1 37 | 6 58 | 1 1 | 12 13 | 1 23 | 11 4 | 0 33 | 13 7 | 0 38 | 22 32 | 0 21 | 20 3 | 20 5 | 4 57 | 11 24 | 0 35 |
| S 24 | 11 45 | 20 14 | 3 4 | 21 27 | 2 43 | 8 18 | 1 14 | 25 5 | 1 37 | 6 54 | 1 1 | 12 12 | 1 23 | 11 3 | 0 33 | 13 7 | 0 38 | 22 32 | 0 21 | 20 5 | 20 5 | 4 54 | 11 23 | 0 35 |
| M25 | 12 6 | 21 16 | 2 4 | 21 47 | 2 46 | 8 47 | 1 12 | 25 4 | 1 36 | 6 50 | 1 2 | 12 10 | 1 23 | 11 2 | 0 33 | 13 7 | 0 38 | 22 33 | 0 21 | 20 6 | 20 6 | 4 52 | 11 21 | 0 35 |
| T 26 | 12 26 | 21 8 | 0 59 | 22 4 | 2 48 | 9 16 | 1 11 | 25 4 | 1 36 | 6 46 | 1 2 | 12 9 | 1 23 | 11 1 | 0 33 | 13 7 | 0 38 | 22 33 | 0 21 | 20 6 | 20 7 | 4 50 | 11 20 | 0 35 |
| W27 | 12 47 | 19 56 | 0s 7 | 22 21 | 2 50 | 9 44 | 1 9 | 25 2 | 1 36 | 6 42 | 1 2 | 12 7 | 1 23 | 11 1 | 0 33 | 13 7 | 0 38 | 22 33 | 0 21 | 20 6 | 20 7 | 4 48 | 11 19 | 0 36 |
| T 28 | 13 7 | 17 49 | 1 11 | 22 35 | 2 52 | 10 12 | 1 8 | 25 1 | 1 36 | 6 38 | 1 2 | 12 5 | 1 24 | 11 0 | 0 33 | 13 7 | 0 38 | 22 33 | 0 21 | 20 6 | 20 8 | 4 45 | 11 18 | 0 36 |
| F 29 | 13 27 | 14 58 | 2 10 | 22 48 | 2 52 | 10 40 | 1 6 | 24 59 | 1 35 | 6 34 | 1 2 | 12 4 | 1 24 | 10 59 | 0 33 | 13 7 | 0 38 | 22 33 | 0 21 | 20 6 | 20 9 | 4 43 | 11 17 | 0 36 |
| S 30 | 13 47 | 11 32 | 3 4 | 22 59 | 2 52 | 11 7 | 1 5 | 24 57 | 1 35 | 6 30 | 1 2 | 12 2 | 1 24 | 10 58 | 0 33 | 13 7 | 0 38 | 22 33 | 0 21 | 20 7 | 20 9 | 4 41 | 11 16 | 0 36 |
| S 31 | 14s 7 | 7s39 | 3s49 | 23s 9 | 2s51 | 11s35 | 1n 3 | 24s55 | 1s35 | 6n26 | 1n 3 | 12n 1 | 1n24 | 10n57 | 0s33 | 13s 8 | 0s38 | 22n33 | 0n21 | 20n 8 | 20n10 | 4s39 | 11n15 | 0s36 |

Julian Day Number = 2336036.5, Delta T = 21.58 sec
Ecliptic obliquity = 23°28'45, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'33, Lahiri = 19°26'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## NOVEMBER 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 41 28 | 8♏43'51 | 1♈22 | 1♐31 | 4♏22 | 6♑51 | 16♍19 | 2♍17 | 29°R52 | 27°R 1 | 18°R30 | 0°R 4 | 0♌ 2 | 28♓33 | 0°R51 | M 1 |
| T 2 | 2 45 25 | 9°44'02 | 13°17 | 2° 9 | 5°37 | 7°36 | 16°29 | 2°21 | 29♈50 | 27♒ 0 | 18♋30 | 29♋53 | 29♋59 | 28°39 | 0♉48 | T 2 |
| W 3 | 2 49 21 | 10°44'16 | 25°20 | 2°40 | 6°52 | 8°21 | 16°39 | 2°26 | 29°48 | 27° 0 | 18°30 | 29°39 | 29°55 | 28°46 | 0°45 | W 3 |
| T 4 | 2 53 18 | 11°44'31 | 7♉30 | 3° 6 | 8° 8 | 9° 6 | 16°49 | 2°30 | 29°45 | 27° 0 | 18°29 | 29°25 | 29°52 | 28°53 | 0°42 | T 4 |
| F 5 | 2 57 14 | 12°44'48 | 19°50 | 3°24 | 9°23 | 9°51 | 16°58 | 2°34 | 29°43 | 27° 0 | 18°29 | 29°12 | 29°49 | 28°59 | 0°39 | F 5 |
| S 6 | 3 1 11 | 13°45'06 | 2♊19 | 3°34 | 10°38 | 10°37 | 17° 8 | 2°38 | 29°40 | 27° 0 | 18°28 | 28°59 | 29°46 | 29° 6 | 0°36 | S 6 |
| S 7 | 3 5 7 | 14°45'27 | 14°58 | 3°R37 | 11°54 | 11°22 | 17°18 | 2°42 | 29°38 | 27° 0 | 18°28 | 28°50 | 29°43 | 29°13 | 0°33 | S 7 |
| M 8 | 3 9 4 | 15°45'49 | 27°47 | 3°30 | 13° 9 | 12° 8 | 17°27 | 2°46 | 29°36 | 27°D 0 | 18°27 | 28°43 | 29°40 | 29°20 | 0°30 | M 8 |
| T 9 | 3 13 0 | 16°46'13 | 10♋48 | 3°13 | 14°24 | 12°53 | 17°36 | 2°50 | 29°33 | 27° 0 | 18°27 | 28°40 | 29°36 | 29°26 | 0°28 | T 9 |
| W10 | 3 16 57 | 17°46'39 | 24° 1 | 2°46 | 15°40 | 13°38 | 17°46 | 2°53 | 29°31 | 27° 0 | 18°26 | 28°D38 | 29°33 | 29°33 | 0°25 | W10 |
| T 11 | 3 20 54 | 18°47'07 | 7♌29 | 2° 9 | 16°55 | 14°24 | 17°55 | 2°57 | 29°29 | 27° 0 | 18°26 | 28°38 | 29°30 | 29°40 | 0°22 | T 11 |
| F 12 | 3 24 50 | 19°47'37 | 21°13 | 1°22 | 18°11 | 15°10 | 18° 4 | 3° 0 | 29°26 | 27° 0 | 18°25 | 28°R39 | 29°27 | 29°46 | 0°19 | F 12 |
| S 13 | 3 28 47 | 20°48'08 | 5♍14 | 0°25 | 19°26 | 15°55 | 18°13 | 3° 4 | 29°24 | 27° 0 | 18°25 | 28°38 | 29°24 | 29°53 | 0°16 | S 13 |
| S 14 | 3 32 43 | 21°48'42 | 19°32 | 29♏19 | 20°41 | 16°41 | 18°22 | 3° 7 | 29°22 | 27° 0 | 18°24 | 28°35 | 29°20 | 29°59 | 0°14 | S 14 |
| M15 | 3 36 40 | 22°49'17 | 4♎ 6 | 28° 7 | 21°57 | 17°27 | 18°30 | 3°10 | 29°20 | 27° 1 | 18°24 | 28°29 | 29°17 | 0♈ 6 | 0°11 | M15 |
| T 16 | 3 40 36 | 23°49'54 | 18°49 | 26°48 | 23°12 | 18°13 | 18°39 | 3°13 | 29°18 | 27° 1 | 18°23 | 28°21 | 29°14 | 0°13 | 0° 8 | T 16 |
| W17 | 3 44 33 | 24°50'33 | 3♏37 | 25°27 | 24°28 | 18°58 | 18°47 | 3°17 | 29°15 | 27° 1 | 18°22 | 28°12 | 29°11 | 0°20 | 0° 6 | W17 |
| T 18 | 3 48 29 | 25°51'13 | 18°21 | 24° 6 | 25°43 | 19°44 | 18°56 | 3°19 | 29°13 | 27° 1 | 18°22 | 28° 1 | 29° 8 | 0°27 | 0° 3 | T 18 |
| F 19 | 3 52 26 | 26°51'54 | 2♐52 | 22°46 | 26°59 | 20°30 | 19° 4 | 3°22 | 29°11 | 27° 2 | 18°21 | 27°52 | 29° 5 | 0°33 | 0° 0 | F 19 |
| S 20 | 3 56 23 | 27°52'38 | 17° 3 | 21°32 | 28°14 | 21°16 | 19°12 | 3°25 | 29° 9 | 27° 2 | 18°20 | 27°44 | 29° 1 | 0°40 | 29♈58 | S 20 |
| S 21 | 4 0 19 | 28°53'22 | 0♑51 | 20°26 | 29°30 | 22° 2 | 19°20 | 3°28 | 29° 7 | 27° 3 | 18°19 | 27°38 | 28°58 | 0°47 | 29°55 | S 21 |
| M22 | 4 4 16 | 29°54'08 | 14°12 | 19°28 | 0♐45 | 22°49 | 19°28 | 3°30 | 29° 5 | 27° 3 | 18°19 | 27°35 | 28°55 | 0°53 | 29°53 | M22 |
| T 23 | 4 8 12 | 0♐54'54 | 27° 8 | 18°41 | 2° 0 | 23°35 | 19°35 | 3°32 | 29° 3 | 27° 3 | 18°18 | 27°D34 | 28°52 | 1° 0 | 29°50 | T 23 |
| W24 | 4 12 9 | 1°55'42 | 9♒41 | 18° 6 | 3°16 | 24°21 | 19°43 | 3°35 | 29° 1 | 27° 4 | 18°17 | 27°34 | 28°49 | 1° 7 | 29°48 | W24 |
| T 25 | 4 16 5 | 2°56'31 | 21°56 | 17°41 | 4°31 | 25° 7 | 19°50 | 3°37 | 28°59 | 27° 5 | 18°16 | 27°35 | 28°46 | 1°14 | 29°45 | T 25 |
| F 26 | 4 20 2 | 3°57'20 | 3♓58 | 17°29 | 5°47 | 25°53 | 19°58 | 3°39 | 28°57 | 27° 5 | 18°15 | 27°R36 | 28°42 | 1°20 | 29°43 | F 26 |
| S 27 | 4 23 58 | 4°58'11 | 15°51 | 17°D27 | 7° 2 | 26°39 | 20° 5 | 3°41 | 28°55 | 27° 6 | 18°14 | 27°35 | 28°39 | 1°27 | 29°41 | S 27 |
| S 28 | 4 27 55 | 5°59'02 | 27°42 | 17°36 | 8°18 | 27°26 | 20°12 | 3°43 | 28°53 | 27° 6 | 18°14 | 27°32 | 28°36 | 1°34 | 29°38 | S 28 |
| M29 | 4 31 52 | 6°59'54 | 9♈34 | 17°54 | 9°33 | 28°12 | 20°19 | 3°45 | 28°52 | 27° 7 | 18°13 | 27°27 | 28°33 | 1°40 | 29°36 | M29 |
| T 30 | 4 35 48 | 8♐ 0'47 | 21♈32 | 18♏21 | 10♐49 | 28♑58 | 20♍25 | 3♍46 | 28♈50 | 27♒ 8 | 18♋12 | 27♋20 | 28♋30 | 1♈47 | 29♈34 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 14s26 | 3s29 | 4s24 | 23s16 | 2s49 | 12s 2 | 1n 1 | 24s53 | 1s35 | 6n22 | 1n 3 | 12n 0 | 1n24 | 10n56 | 0s33 | 13s 8 | 0s38 | 22n33 | 0n22 | 20n10 | 20n11 | 4s36 | 11n14 | 0s36 |
| T 2 | 14 45 | 0n50 | 4 48 | 23 21 | 2 47 | 12 29 | 1 0 | 24 50 | 1 34 | 6 19 | 1 3 | 11 58 | 1 25 | 10 55 | 0 33 | 13 8 | 0 38 | 22 33 | 0 22 | 20 13 | 20 11 | 4 34 | 11 12 | 0 36 |
| W 3 | 15 4 | 5 10 | 4 59 | 23 24 | 2 43 | 12 55 | 0 58 | 24 47 | 1 34 | 6 15 | 1 3 | 11 57 | 1 25 | 10 55 | 0 33 | 13 8 | 0 38 | 22 34 | 0 22 | 20 15 | 20 12 | 4 32 | 11 11 | 0 36 |
| T 4 | 15 23 | 9 21 | 4 57 | 23 24 | 2 38 | 13 21 | 0 56 | 24 44 | 1 34 | 6 11 | 1 3 | 11 55 | 1 25 | 10 54 | 0 33 | 13 8 | 0 38 | 22 34 | 0 22 | 20 18 | 20 13 | 4 30 | 11 10 | 0 36 |
| F 5 | 15 41 | 13 12 | 4 41 | 23 21 | 2 32 | 13 47 | 0 54 | 24 40 | 1 34 | 6 8 | 1 4 | 11 54 | 1 25 | 10 53 | 0 33 | 13 8 | 0 38 | 22 34 | 0 22 | 20 21 | 20 13 | 4 27 | 11 9 | 0 36 |
| S 6 | 16 0 | 16 33 | 4 12 | 23 16 | 2 25 | 14 13 | 0 52 | 24 36 | 1 33 | 6 4 | 1 4 | 11 53 | 1 25 | 10 52 | 0 33 | 13 8 | 0 38 | 22 34 | 0 22 | 20 24 | 20 14 | 4 25 | 11 8 | 0 36 |
| S 7 | 16 18 | 19 10 | 3 29 | 23 8 | 2 16 | 14 38 | 0 50 | 24 32 | 1 33 | 6 1 | 1 4 | 11 52 | 1 26 | 10 51 | 0 33 | 13 8 | 0 38 | 22 34 | 0 22 | 20 26 | 20 15 | 4 23 | 11 7 | 0 36 |
| M 8 | 16 35 | 20 52 | 2 36 | 22 57 | 2 6 | 15 2 | 0 48 | 24 28 | 1 33 | 5 57 | 1 4 | 11 50 | 1 26 | 10 50 | 0 33 | 13 8 | 0 38 | 22 34 | 0 22 | 20 27 | 20 15 | 4 21 | 11 6 | 0 37 |
| T 9 | 16 53 | 21 29 | 1 33 | 22 42 | 1 54 | 15 27 | 0 46 | 24 23 | 1 32 | 5 54 | 1 4 | 11 49 | 1 26 | 10 50 | 0 32 | 13 8 | 0 38 | 22 34 | 0 22 | 20 28 | 20 16 | 4 18 | 11 5 | 0 37 |
| W10 | 17 10 | 20 56 | 0 25 | 22 23 | 1 40 | 15 51 | 0 44 | 24 18 | 1 32 | 5 50 | 1 5 | 11 48 | 1 26 | 10 49 | 0 32 | 13 8 | 0 38 | 22 34 | 0 22 | 20 28 | 20 17 | 4 16 | 11 4 | 0 37 |
| T 11 | 17 26 | 19 11 | 0n47 | 22 1 | 1 25 | 16 14 | 0 42 | 24 13 | 1 32 | 5 47 | 1 5 | 11 47 | 1 27 | 10 48 | 0 32 | 13 8 | 0 38 | 22 35 | 0 22 | 20 28 | 20 17 | 4 14 | 11 3 | 0 37 |
| F 12 | 17 43 | 16 18 | 1 57 | 21 35 | 1 8 | 16 38 | 0 40 | 24 8 | 1 31 | 5 43 | 1 5 | 11 46 | 1 27 | 10 47 | 0 32 | 13 8 | 0 38 | 22 35 | 0 22 | 20 28 | 20 18 | 4 12 | 11 2 | 0 37 |
| S 13 | 17 59 | 12 25 | 3 2 | 21 6 | 0 50 | 17 0 | 0 38 | 24 2 | 1 31 | 5 40 | 1 5 | 11 45 | 1 27 | 10 46 | 0 32 | 13 8 | 0 38 | 22 35 | 0 22 | 20 28 | 20 19 | 4 9 | 11 1 | 0 37 |
| S 14 | 18 15 | 7 46 | 3 56 | 20 33 | 0 31 | 17 23 | 0 36 | 23 56 | 1 30 | 5 37 | 1 5 | 11 44 | 1 27 | 10 46 | 0 32 | 13 8 | 0 38 | 22 35 | 0 23 | 20 29 | 20 19 | 4 7 | 11 0 | 0 37 |
| M15 | 18 30 | 2 36 | 4 36 | 19 57 | 0 11 | 17 44 | 0 34 | 23 50 | 1 30 | 5 34 | 1 6 | 11 43 | 1 27 | 10 45 | 0 32 | 13 8 | 0 38 | 22 35 | 0 23 | 20 30 | 20 20 | 4 5 | 10 59 | 0 37 |
| T 16 | 18 46 | 2s46 | 4 59 | 19 19 | 0n10 | 18 6 | 0 32 | 23 43 | 1 30 | 5 30 | 1 6 | 11 42 | 1 28 | 10 44 | 0 32 | 13 7 | 0 38 | 22 35 | 0 23 | 20 31 | 20 21 | 4 3 | 10 58 | 0 37 |
| W17 | 19 1 | 8 1 | 5 2 | 18 40 | 0 30 | 18 27 | 0 29 | 23 36 | 1 29 | 5 27 | 1 6 | 11 41 | 1 28 | 10 43 | 0 32 | 13 7 | 0 38 | 22 36 | 0 23 | 20 33 | 20 21 | 4 0 | 10 57 | 0 37 |
| T 18 | 19 15 | 12 45 | 4 45 | 18 1 | 0 50 | 18 47 | 0 27 | 23 29 | 1 29 | 5 24 | 1 6 | 11 40 | 1 28 | 10 43 | 0 32 | 13 7 | 0 38 | 22 36 | 0 23 | 20 35 | 20 22 | 3 58 | 10 56 | 0 37 |
| F 19 | 19 29 | 16 42 | 4 9 | 17 23 | 1 9 | 19 7 | 0 25 | 23 22 | 1 29 | 5 21 | 1 6 | 11 40 | 1 28 | 10 42 | 0 32 | 13 7 | 0 38 | 22 36 | 0 23 | 20 37 | 20 23 | 3 56 | 10 55 | 0 37 |
| S 20 | 19 43 | 19 33 | 3 19 | 16 47 | 1 27 | 19 26 | 0 22 | 23 15 | 1 28 | 5 18 | 1 7 | 11 39 | 1 29 | 10 41 | 0 32 | 13 7 | 0 38 | 22 36 | 0 23 | 20 39 | 20 23 | 3 53 | 10 54 | 0 37 |
| S 21 | 19 57 | 21 11 | 2 18 | 16 14 | 1 43 | 19 45 | 0 20 | 23 7 | 1 28 | 5 15 | 1 7 | 11 38 | 1 29 | 10 41 | 0 32 | 13 7 | 0 38 | 22 36 | 0 23 | 20 40 | 20 24 | 3 51 | 10 53 | 0 38 |
| M22 | 20 10 | 21 33 | 1 11 | 15 45 | 1 57 | 20 3 | 0 18 | 22 59 | 1 27 | 5 12 | 1 7 | 11 37 | 1 29 | 10 40 | 0 32 | 13 7 | 0 38 | 22 36 | 0 23 | 20 41 | 20 25 | 3 49 | 10 52 | 0 38 |
| T 23 | 20 23 | 20 44 | 0 2 | 15 21 | 2 9 | 20 21 | 0 15 | 22 51 | 1 27 | 5 10 | 1 7 | 11 37 | 1 29 | 10 39 | 0 32 | 13 6 | 0 38 | 22 37 | 0 23 | 20 41 | 20 25 | 3 47 | 10 51 | 0 38 |
| W24 | 20 35 | 18 53 | 1s 5 | 15 2 | 2 19 | 20 38 | 0 13 | 22 42 | 1 26 | 5 7 | 1 8 | 11 36 | 1 30 | 10 38 | 0 32 | 13 6 | 0 38 | 22 37 | 0 23 | 20 41 | 20 26 | 3 44 | 10 50 | 0 38 |
| T 25 | 20 47 | 16 13 | 2 7 | 14 48 | 2 26 | 20 54 | 0 11 | 22 33 | 1 26 | 5 4 | 1 8 | 11 36 | 1 30 | 10 38 | 0 32 | 13 6 | 0 38 | 22 37 | 0 23 | 20 41 | 20 27 | 3 42 | 10 49 | 0 38 |
| F 26 | 20 58 | 12 54 | 3 3 | 14 39 | 2 32 | 21 10 | 0 8 | 22 24 | 1 25 | 5 1 | 1 8 | 11 35 | 1 30 | 10 37 | 0 32 | 13 6 | 0 38 | 22 37 | 0 23 | 20 41 | 20 27 | 3 40 | 10 48 | 0 38 |
| S 27 | 21 10 | 9 7 | 3 50 | 14 35 | 2 36 | 21 25 | 0 6 | 22 15 | 1 25 | 4 59 | 1 8 | 11 35 | 1 30 | 10 37 | 0 32 | 13 6 | 0 38 | 22 37 | 0 23 | 20 41 | 20 28 | 3 37 | 10 47 | 0 38 |
| S 28 | 21 20 | 5 0 | 4 27 | 14 35 | 2 38 | 21 40 | 0 4 | 22 5 | 1 25 | 4 56 | 1 8 | 11 34 | 1 31 | 10 36 | 0 32 | 13 5 | 0 38 | 22 37 | 0 24 | 20 41 | 20 29 | 3 35 | 10 46 | 0 38 |
| M29 | 21 31 | 0 41 | 4 52 | 14 40 | 2 38 | 21 54 | 0 1 | 21 56 | 1 24 | 4 54 | 1 9 | 11 34 | 1 31 | 10 35 | 0 32 | 13 5 | 0 38 | 22 38 | 0 24 | 20 42 | 20 29 | 3 33 | 10 45 | 0 38 |
| T 30 | 21s41 | 3n41 | 5s 5 | 14s48 | 2n37 | 22s 7 | 0s 1 | 21s46 | 1s24 | 4n51 | 1n 9 | 11n33 | 1n31 | 10n35 | 0s32 | 13s 5 | 0s38 | 22n38 | 0n24 | 20n44 | 20n30 | 3s30 | 10n45 | 0s38 |

Julian Day Number = 2336067.5, Delta T = 21.54 sec
Ecliptic obliquity = 23°28'45, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'37, Lahiri = 19°26'38Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1683
# geocentric

## DECEMBER 1683 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 39 45 | 9♐ 1'41 | 3♉40 | 18♏56 | 12♐ 4 | 29♑45 | 20♍32 | 3♍48 | 28°R48 | 27♒ 9 | 18°R11 | 27°R12 | 28♋26 | 1♈54 | 29°R32 | W 1 |
| T 2 | 4 43 41 | 10° 2'36 | 15°59 | 19°38 | 13°20 | 0♒31 | 20°38 | 3°49 | 28♈46 | 27° 9 | 18♋10 | 27♋ 3 | 28°23 | 2° 0 | 29♈30 | T 2 |
| F 3 | 4 47 38 | 11° 3'31 | 28°32 | 20°27 | 14°35 | 1°18 | 20°45 | 3°51 | 28°45 | 27°10 | 18° 9 | 26°54 | 28°20 | 2° 7 | 29°28 | F 3 |
| S 4 | 4 51 34 | 12° 4'28 | 11♊18 | 21°20 | 15°50 | 2° 4 | 20°51 | 3°52 | 28°43 | 27°11 | 18° 8 | 26°46 | 28°17 | 2°14 | 29°26 | S 4 |
| S 5 | 4 55 31 | 13° 5'26 | 24°17 | 22°19 | 17° 6 | 2°51 | 20°57 | 3°53 | 28°42 | 27°12 | 18° 7 | 26°40 | 28°14 | 2°21 | 29°24 | S 5 |
| M 6 | 4 59 27 | 14° 6'24 | 7♋28 | 23°22 | 18°21 | 3°37 | 21° 3 | 3°54 | 28°40 | 27°13 | 18° 6 | 26°36 | 28°11 | 2°27 | 29°22 | M 6 |
| T 7 | 5 3 24 | 15° 7'24 | 20°51 | 24°28 | 19°37 | 4°24 | 21° 8 | 3°55 | 28°39 | 27°14 | 18° 5 | 26°D34 | 28° 7 | 2°34 | 29°20 | T 7 |
| W 8 | 5 7 21 | 16° 8'24 | 4♌25 | 25°38 | 20°52 | 5°10 | 21°14 | 3°56 | 28°37 | 27°15 | 18° 4 | 26°34 | 28° 4 | 2°41 | 29°18 | W 8 |
| T 9 | 5 11 17 | 17° 9'26 | 18° 8 | 26°50 | 22° 8 | 5°57 | 21°19 | 3°56 | 28°36 | 27°16 | 18° 3 | 26°35 | 28° 1 | 2°47 | 29°16 | T 9 |
| F 10 | 5 15 14 | 18°10'28 | 2♍ 0 | 28° 5 | 23°23 | 6°43 | 21°24 | 3°57 | 28°34 | 27°17 | 18° 2 | 26°37 | 27°58 | 2°54 | 29°15 | F 10 |
| S 11 | 5 19 10 | 19°11'32 | 16° 1 | 29°21 | 24°39 | 7°30 | 21°29 | 3°57 | 28°33 | 27°18 | 18° 1 | 26°R38 | 27°55 | 3° 1 | 29°13 | S 11 |
| S 12 | 5 23 7 | 20°12'36 | 0♎10 | 0♐40 | 25°54 | 8°16 | 21°34 | 3°58 | 28°32 | 27°19 | 17°59 | 26°37 | 27°51 | 3° 8 | 29°11 | S 12 |
| M13 | 5 27 3 | 21°13'42 | 14°25 | 2° 0 | 27°10 | 9° 3 | 21°39 | 3°58 | 28°31 | 27°20 | 17°58 | 26°35 | 27°48 | 3°14 | 29°10 | M13 |
| T 14 | 5 31 0 | 22°14'48 | 28°44 | 3°22 | 28°25 | 9°50 | 21°43 | 3°58 | 28°29 | 27°22 | 17°57 | 26°32 | 27°45 | 3°21 | 29° 8 | T 14 |
| W15 | 5 34 56 | 23°15'55 | 13♏ 3 | 4°45 | 29°40 | 10°36 | 21°48 | 3°R58 | 28°28 | 27°23 | 17°56 | 26°27 | 27°42 | 3°28 | 29° 7 | W15 |
| T 16 | 5 38 53 | 24°17'03 | 27°18 | 6° 9 | 0♑56 | 11°23 | 21°52 | 3°58 | 28°27 | 27°24 | 17°55 | 26°22 | 27°39 | 3°34 | 29° 5 | T 16 |
| F 17 | 5 42 50 | 25°18'11 | 11♐23 | 7°33 | 2°11 | 12°10 | 21°56 | 3°58 | 28°26 | 27°25 | 17°54 | 26°17 | 27°36 | 3°41 | 29° 4 | F 17 |
| S 18 | 5 46 46 | 26°19'21 | 25°13 | 8°59 | 3°27 | 12°57 | 22° 0 | 3°57 | 28°25 | 27°27 | 17°52 | 26°13 | 27°32 | 3°48 | 29° 3 | S 18 |
| S 19 | 5 50 43 | 27°20'30 | 8♑46 | 10°26 | 4°42 | 13°43 | 22° 3 | 3°57 | 28°24 | 27°28 | 17°51 | 26°10 | 27°29 | 3°55 | 29° 1 | S 19 |
| M20 | 5 54 39 | 28°21'40 | 21°58 | 11°53 | 5°58 | 14°30 | 22° 7 | 3°56 | 28°23 | 27°29 | 17°50 | 26°D 9 | 27°26 | 4° 1 | 29° 0 | M20 |
| T 21 | 5 58 36 | 29°22'50 | 4♒51 | 13°20 | 7°13 | 15°17 | 22°10 | 3°56 | 28°22 | 27°31 | 17°49 | 26° 9 | 27°23 | 4° 8 | 28°59 | T 21 |
| W22 | 6 2 32 | 0♑24'01 | 17°24 | 14°49 | 8°29 | 16° 3 | 22°13 | 3°55 | 28°22 | 27°32 | 17°48 | 26°10 | 27°20 | 4°15 | 28°58 | W22 |
| T 23 | 6 6 29 | 1°25'11 | 29°41 | 16°17 | 9°44 | 16°50 | 22°16 | 3°54 | 28°21 | 27°33 | 17°46 | 26°12 | 27°17 | 4°21 | 28°57 | T 23 |
| F 24 | 6 10 26 | 2°26'21 | 11♓45 | 17°47 | 10°59 | 17°37 | 22°19 | 3°53 | 28°20 | 27°35 | 17°45 | 26°14 | 27°13 | 4°28 | 28°56 | F 24 |
| S 25 | 6 14 22 | 3°27'31 | 23°40 | 19°16 | 12°15 | 18°24 | 22°21 | 3°52 | 28°19 | 27°36 | 17°44 | 26°15 | 27°10 | 4°35 | 28°55 | S 25 |
| S 26 | 6 18 19 | 4°28'41 | 5♈32 | 20°46 | 13°30 | 19°11 | 22°24 | 3°51 | 28°19 | 27°38 | 17°43 | 26°R15 | 27° 7 | 4°42 | 28°54 | S 26 |
| M27 | 6 22 15 | 5°29'51 | 17°25 | 22°17 | 14°46 | 19°57 | 22°26 | 3°49 | 28°18 | 27°39 | 17°41 | 26°15 | 27° 4 | 4°48 | 28°53 | M27 |
| T 28 | 6 26 12 | 6°31'01 | 29°24 | 23°48 | 16° 1 | 20°44 | 22°28 | 3°48 | 28°18 | 27°41 | 17°40 | 26°13 | 27° 1 | 4°55 | 28°53 | T 28 |
| W29 | 6 30 8 | 7°32'10 | 11♉33 | 25°19 | 17°16 | 21°31 | 22°30 | 3°46 | 28°17 | 27°43 | 17°39 | 26°11 | 26°57 | 5° 2 | 28°52 | W29 |
| T 30 | 6 34 5 | 8°33'19 | 23°56 | 26°51 | 18°32 | 22°18 | 22°31 | 3°45 | 28°17 | 27°44 | 17°38 | 26° 8 | 26°54 | 5° 8 | 28°51 | T 30 |
| F 31 | 6 38 1 | 9♑34'28 | 6♊36 | 28♐23 | 19♑47 | 23♒ 4 | 22♍33 | 3♍43 | 28♈17 | 27♒46 | 17♋36 | 26♋ 5 | 26♋51 | 5♈15 | 28♈51 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21s50 | 7n58 | 5s 5 | 14s59 | 2n36 | 22s20 | 0s 4 | 21s35 | 1s23 | 4n49 | 1n 9 | 11n33 | 1n31 | 10n34 | 0s32 | 13s 5 | 0s38 | 22n38 | 0n24 | 20n45 | 20n30 | 3s28 | 10n44 | 0s38 |
| T 2 | 22 0 | 12 1 | 4 51 | 15 13 | 2 33 | 22 32 | 0 6 | 21 25 | 1 23 | 4 47 | 1 9 | 11 33 | 1 32 | 10 34 | 0 32 | 13 4 | 0 38 | 22 38 | 0 24 | 20 47 | 20 31 | 3 26 | 10 43 | 0 38 |
| F 3 | 22 8 | 15 36 | 4 22 | 15 30 | 2 29 | 22 44 | 0 8 | 21 14 | 1 22 | 4 45 | 1 10 | 11 32 | 1 32 | 10 33 | 0 32 | 13 4 | 0 38 | 22 38 | 0 24 | 20 49 | 20 32 | 3 24 | 10 42 | 0 38 |
| S 4 | 22 17 | 18 32 | 3 40 | 15 48 | 2 24 | 22 54 | 0 11 | 21 3 | 1 22 | 4 42 | 1 10 | 11 32 | 1 32 | 10 32 | 0 32 | 13 4 | 0 38 | 22 39 | 0 24 | 20 50 | 20 32 | 3 21 | 10 41 | 0 38 |
| S 5 | 22 24 | 20 36 | 2 46 | 16 8 | 2 19 | 23 4 | 0 13 | 20 52 | 1 21 | 4 40 | 1 10 | 11 32 | 1 32 | 10 32 | 0 32 | 13 3 | 0 38 | 22 39 | 0 24 | 20 51 | 20 33 | 3 19 | 10 41 | 0 38 |
| M 6 | 22 32 | 21 35 | 1 42 | 16 29 | 2 13 | 23 14 | 0 16 | 20 41 | 1 20 | 4 38 | 1 10 | 11 32 | 1 33 | 10 31 | 0 32 | 13 3 | 0 38 | 22 39 | 0 24 | 20 52 | 20 34 | 3 17 | 10 40 | 0 39 |
| T 7 | 22 39 | 21 21 | 0 31 | 16 52 | 2 7 | 23 22 | 0 18 | 20 29 | 1 20 | 4 36 | 1 11 | 11 32 | 1 33 | 10 31 | 0 32 | 13 3 | 0 38 | 22 39 | 0 24 | 20 53 | 20 34 | 3 14 | 10 39 | 0 39 |
| W 8 | 22 45 | 19 53 | 0n42 | 17 15 | 2 1 | 23 30 | 0 20 | 20 17 | 1 19 | 4 34 | 1 11 | 11 32 | 1 33 | 10 30 | 0 32 | 13 2 | 0 38 | 22 39 | 0 24 | 20 53 | 20 35 | 3 12 | 10 38 | 0 39 |
| T 9 | 22 51 | 17 14 | 1 54 | 17 38 | 1 54 | 23 37 | 0 23 | 20 5 | 1 19 | 4 32 | 1 11 | 11 32 | 1 33 | 10 30 | 0 32 | 13 2 | 0 38 | 22 40 | 0 24 | 20 52 | 20 36 | 3 10 | 10 38 | 0 39 |
| F 10 | 22 57 | 13 35 | 3 1 | 18 2 | 1 47 | 23 44 | 0 25 | 19 53 | 1 18 | 4 31 | 1 12 | 11 32 | 1 33 | 10 29 | 0 32 | 13 2 | 0 38 | 22 40 | 0 24 | 20 52 | 20 36 | 3 7 | 10 37 | 0 39 |
| S 11 | 23 2 | 9 9 | 3 57 | 18 26 | 1 39 | 23 49 | 0 27 | 19 41 | 1 18 | 4 29 | 1 12 | 11 32 | 1 34 | 10 29 | 0 32 | 13 1 | 0 38 | 22 40 | 0 24 | 20 52 | 20 37 | 3 5 | 10 36 | 0 39 |
| S 12 | 23 7 | 4 12 | 4 39 | 18 49 | 1 32 | 23 54 | 0 30 | 19 28 | 1 17 | 4 27 | 1 12 | 11 32 | 1 34 | 10 29 | 0 32 | 13 1 | 0 38 | 22 40 | 0 25 | 20 52 | 20 37 | 3 3 | 10 36 | 0 39 |
| M13 | 23 11 | 1s 1 | 5 4 | 19 13 | 1 24 | 23 59 | 0 32 | 19 15 | 1 17 | 4 26 | 1 12 | 11 32 | 1 34 | 10 28 | 0 32 | 13 0 | 0 38 | 22 41 | 0 25 | 20 52 | 20 38 | 3 0 | 10 35 | 0 39 |
| T 14 | 23 15 | 6 12 | 5 11 | 19 36 | 1 17 | 24 2 | 0 34 | 19 2 | 1 16 | 4 24 | 1 13 | 11 32 | 1 34 | 10 28 | 0 32 | 13 0 | 0 38 | 22 41 | 0 25 | 20 53 | 20 39 | 2 58 | 10 35 | 0 39 |
| W15 | 23 18 | 11 2 | 4 59 | 19 59 | 1 9 | 24 5 | 0 36 | 18 49 | 1 15 | 4 22 | 1 13 | 11 32 | 1 35 | 10 27 | 0 32 | 13 0 | 0 38 | 22 41 | 0 25 | 20 54 | 20 39 | 2 56 | 10 34 | 0 39 |
| T 16 | 23 21 | 15 15 | 4 28 | 20 22 | 1 1 | 24 7 | 0 38 | 18 36 | 1 15 | 4 21 | 1 13 | 11 33 | 1 35 | 10 27 | 0 32 | 12 59 | 0 38 | 22 41 | 0 25 | 20 55 | 20 40 | 2 53 | 10 34 | 0 39 |
| F 17 | 23 24 | 18 32 | 3 41 | 20 44 | 0 53 | 24 8 | 0 41 | 18 22 | 1 14 | 4 20 | 1 13 | 11 33 | 1 35 | 10 27 | 0 32 | 12 59 | 0 38 | 22 41 | 0 25 | 20 56 | 20 41 | 2 51 | 10 33 | 0 39 |
| S 18 | 23 26 | 20 42 | 2 41 | 21 5 | 0 46 | 24 9 | 0 43 | 18 8 | 1 14 | 4 18 | 1 14 | 11 33 | 1 35 | 10 26 | 0 32 | 12 58 | 0 38 | 22 42 | 0 25 | 20 57 | 20 41 | 2 49 | 10 32 | 0 39 |
| S 19 | 23 27 | 21 38 | 1 34 | 21 25 | 0 38 | 24 9 | 0 45 | 17 54 | 1 13 | 4 17 | 1 14 | 11 34 | 1 36 | 10 26 | 0 32 | 12 58 | 0 38 | 22 42 | 0 25 | 20 57 | 20 42 | 2 46 | 10 32 | 0 39 |
| M20 | 23 28 | 21 18 | 0 23 | 21 45 | 0 30 | 24 8 | 0 47 | 17 40 | 1 13 | 4 16 | 1 14 | 11 34 | 1 36 | 10 26 | 0 31 | 12 57 | 0 38 | 22 42 | 0 25 | 20 57 | 20 42 | 2 44 | 10 32 | 0 39 |
| T 21 | 23 29 | 19 51 | 0s48 | 22 4 | 0 23 | 24 6 | 0 49 | 17 26 | 1 12 | 4 15 | 1 14 | 11 35 | 1 36 | 10 25 | 0 31 | 12 57 | 0 38 | 22 42 | 0 25 | 20 57 | 20 43 | 2 42 | 10 31 | 0 39 |
| W22 | 23 29 | 17 27 | 1 54 | 22 22 | 0 15 | 24 3 | 0 51 | 17 11 | 1 11 | 4 14 | 1 15 | 11 35 | 1 36 | 10 25 | 0 31 | 12 56 | 0 38 | 22 43 | 0 25 | 20 57 | 20 44 | 2 39 | 10 31 | 0 39 |
| T 23 | 23 28 | 14 19 | 2 54 | 22 39 | 0 8 | 24 0 | 0 53 | 16 56 | 1 11 | 4 13 | 1 15 | 11 36 | 1 37 | 10 25 | 0 31 | 12 56 | 0 38 | 22 43 | 0 25 | 20 57 | 20 44 | 2 37 | 10 30 | 0 39 |
| F 24 | 23 27 | 10 38 | 3 45 | 22 55 | 0 0 | 23 56 | 0 55 | 16 41 | 1 10 | 4 12 | 1 15 | 11 36 | 1 37 | 10 25 | 0 31 | 12 55 | 0 38 | 22 43 | 0 25 | 20 56 | 20 45 | 2 35 | 10 30 | 0 40 |
| S 25 | 23 26 | 6 35 | 4 26 | 23 10 | 0s 7 | 23 52 | 0 57 | 16 26 | 1 9 | 4 12 | 1 16 | 11 37 | 1 37 | 10 25 | 0 31 | 12 55 | 0 38 | 22 43 | 0 25 | 20 56 | 20 46 | 2 32 | 10 29 | 0 40 |
| S 26 | 23 24 | 2 19 | 4 55 | 23 23 | 0 14 | 23 46 | 0 59 | 16 11 | 1 9 | 4 11 | 1 16 | 11 38 | 1 37 | 10 24 | 0 31 | 12 54 | 0 38 | 22 44 | 0 25 | 20 56 | 20 46 | 2 30 | 10 29 | 0 40 |
| M27 | 23 22 | 2n 3 | 5 11 | 23 36 | 0 21 | 23 40 | 1 1 | 15 56 | 1 8 | 4 10 | 1 16 | 11 38 | 1 38 | 10 24 | 0 31 | 12 54 | 0 38 | 22 44 | 0 26 | 20 56 | 20 47 | 2 28 | 10 29 | 0 40 |
| T 28 | 23 19 | 6 22 | 5 15 | 23 48 | 0 28 | 23 33 | 1 3 | 15 40 | 1 8 | 4 10 | 1 16 | 11 39 | 1 38 | 10 24 | 0 31 | 12 53 | 0 38 | 22 44 | 0 26 | 20 57 | 20 47 | 2 25 | 10 29 | 0 40 |
| W29 | 23 16 | 10 30 | 5 4 | 23 58 | 0 34 | 23 25 | 1 4 | 15 25 | 1 7 | 4 9 | 1 17 | 11 40 | 1 38 | 10 24 | 0 31 | 12 53 | 0 38 | 22 44 | 0 26 | 20 57 | 20 48 | 2 23 | 10 28 | 0 40 |
| T 30 | 23 12 | 14 17 | 4 39 | 24 7 | 0 41 | 23 17 | 1 6 | 15 9 | 1 6 | 4 9 | 1 17 | 11 41 | 1 38 | 10 24 | 0 31 | 12 52 | 0 38 | 22 44 | 0 26 | 20 57 | 20 49 | 2 21 | 10 28 | 0 40 |
| F 31 | 23s 8 | 17n30 | 4s 0 | 24s15 | 0s47 | 23s 8 | 1s 8 | 14s53 | 1s 6 | 4n 9 | 1n17 | 11n41 | 1n39 | 10n24 | 0s31 | 12s52 | 0s38 | 22n45 | 0n26 | 20n58 | 20n49 | 2s18 | 10n28 | 0s40 |

Julian Day Number = 2336097.5, Delta T = 21.49 sec
Ecliptic obliquity = 23°28'45, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'41, Lahiri = 19°26'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## JANUARY 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 41 58 | 10♉35'37 | 19♊35 | 29♐55 | 21♉ 2 | 23♒51 | 22♍34 | 3°R41 | 28°R16 | 27♒48 | 17°R35 | 26°R 3 | 26♋48 | 5♈22 | 28°R50 | S 1 |
| S 2 | 6 45 55 | 11°36'46 | 2♋52 | 1♉28 | 22°18 | 24°38 | 22°35 | 3♍39 | 28♈16 | 27°49 | 17♋34 | 26♋ 1 | 26°45 | 5°29 | 28♈50 | S 2 |
| M 3 | 6 49 51 | 12°37'55 | 16°26 | 3° 1 | 23°33 | 25°25 | 22°36 | 3°37 | 28°16 | 27°51 | 17°33 | 26° 0 | 26°42 | 5°35 | 28°50 | M 3 |
| T 4 | 6 53 48 | 13°39'03 | 0♌16 | 4°35 | 24°48 | 26°11 | 22°37 | 3°35 | 28°16 | 27°53 | 17°31 | 26°D 0 | 26°38 | 5°42 | 28°49 | T 4 |
| W 5 | 6 57 44 | 14°40'11 | 14°18 | 6° 9 | 26° 4 | 26°58 | 22°37 | 3°33 | 28°16 | 27°54 | 17°30 | 26° 1 | 26°35 | 5°49 | 28°49 | W 5 |
| T 6 | 7 1 41 | 15°41'19 | 28°28 | 7°43 | 27°19 | 27°45 | 22°38 | 3°30 | 28°D16 | 27°56 | 17°29 | 26° 2 | 26°32 | 5°55 | 28°49 | T 6 |
| F 7 | 7 5 37 | 16°42'27 | 12♍43 | 9°18 | 28°34 | 28°31 | 22°R38 | 3°28 | 28°16 | 27°58 | 17°27 | 26° 3 | 26°29 | 6° 2 | 28°49 | F 7 |
| S 8 | 7 9 34 | 17°43'35 | 26°59 | 10°53 | 29°50 | 29°18 | 22°38 | 3°25 | 28°16 | 28° 0 | 17°26 | 26° 3 | 26°26 | 6° 9 | 28°D49 | S 8 |
| S 9 | 7 13 30 | 18°44'42 | 11♎14 | 12°29 | 1♒ 5 | 0♓ 5 | 22°37 | 3°23 | 28°16 | 28° 2 | 17°25 | 26° 4 | 26°23 | 6°16 | 28°49 | S 9 |
| M10 | 7 17 27 | 19°45'50 | 25°24 | 14° 5 | 2°20 | 0°51 | 22°37 | 3°20 | 28°16 | 28° 4 | 17°24 | 26°R 4 | 26°19 | 6°22 | 28°49 | M10 |
| T 11 | 7 21 24 | 20°46'57 | 9♏28 | 15°42 | 3°35 | 1°38 | 22°36 | 3°17 | 28°16 | 28° 6 | 17°22 | 26° 3 | 26°16 | 6°29 | 28°49 | T 11 |
| W12 | 7 25 20 | 21°48'05 | 23°23 | 17°19 | 4°51 | 2°25 | 22°35 | 3°14 | 28°16 | 28° 7 | 17°21 | 26° 3 | 26°13 | 6°36 | 28°49 | W12 |
| T 13 | 7 29 17 | 22°49'12 | 7♐10 | 18°57 | 6° 6 | 3°11 | 22°34 | 3°11 | 28°17 | 28° 9 | 17°20 | 26° 3 | 26°10 | 6°42 | 28°50 | T 13 |
| F 14 | 7 33 13 | 23°50'19 | 20°45 | 20°35 | 7°21 | 3°58 | 22°33 | 3° 8 | 28°17 | 28°11 | 17°18 | 26° 2 | 26° 7 | 6°49 | 28°50 | F 14 |
| S 15 | 7 37 10 | 24°51'25 | 4♑ 7 | 22°14 | 8°36 | 4°45 | 22°32 | 3° 5 | 28°18 | 28°13 | 17°17 | 26° 2 | 26° 3 | 6°56 | 28°50 | S 15 |
| S 16 | 7 41 6 | 25°52'31 | 17°16 | 23°54 | 9°52 | 5°31 | 22°30 | 3° 2 | 28°18 | 28°15 | 17°16 | 26°D 2 | 26° 0 | 7° 3 | 28°51 | S 16 |
| M17 | 7 45 3 | 26°53'36 | 0♒11 | 25°34 | 11° 7 | 6°18 | 22°28 | 2°58 | 28°19 | 28°17 | 17°15 | 26°R 2 | 25°57 | 7° 9 | 28°51 | M17 |
| T 18 | 7 48 59 | 27°54'40 | 12°51 | 27°14 | 12°22 | 7° 4 | 22°26 | 2°55 | 28°19 | 28°19 | 17°13 | 26° 2 | 25°54 | 7°16 | 28°52 | T 18 |
| W19 | 7 52 56 | 28°55'44 | 25°17 | 28°55 | 13°37 | 7°51 | 22°24 | 2°51 | 28°20 | 28°21 | 17°12 | 26° 2 | 25°51 | 7°23 | 28°52 | W19 |
| T 20 | 7 56 53 | 29°56'46 | 7♓30 | 0♒37 | 14°52 | 8°37 | 22°22 | 2°48 | 28°21 | 28°23 | 17°11 | 26° 1 | 25°48 | 7°29 | 28°53 | T 20 |
| F 21 | 8 0 49 | 0♒57'48 | 19°34 | 2°20 | 16° 7 | 9°24 | 22°19 | 2°44 | 28°21 | 28°25 | 17° 9 | 26° 1 | 25°44 | 7°36 | 28°54 | F 21 |
| S 22 | 8 4 46 | 1°58'48 | 1♈29 | 4° 3 | 17°22 | 10°10 | 22°16 | 2°40 | 28°22 | 28°27 | 17° 8 | 26° 0 | 25°41 | 7°43 | 28°55 | S 22 |
| S 23 | 8 8 42 | 2°59'48 | 13°21 | 5°46 | 18°38 | 10°57 | 22°13 | 2°37 | 28°23 | 28°30 | 17° 7 | 25°59 | 25°38 | 7°50 | 28°56 | S 23 |
| M24 | 8 12 39 | 4° 0'46 | 25°13 | 7°30 | 19°53 | 11°43 | 22°10 | 2°33 | 28°24 | 28°32 | 17° 6 | 25°59 | 25°35 | 7°56 | 28°57 | M24 |
| T 25 | 8 16 35 | 5° 1'43 | 7♉11 | 9°15 | 21° 8 | 12°30 | 22° 7 | 2°29 | 28°25 | 28°34 | 17° 5 | 25°D59 | 25°32 | 8° 3 | 28°58 | T 25 |
| W26 | 8 20 32 | 6° 2'39 | 19°18 | 11° 0 | 22°23 | 13°16 | 22° 3 | 2°25 | 28°26 | 28°36 | 17° 3 | 25°59 | 25°29 | 8°10 | 28°59 | W26 |
| T 27 | 8 24 28 | 7° 3'33 | 1♊39 | 12°46 | 23°38 | 14° 2 | 22° 0 | 2°21 | 28°27 | 28°38 | 17° 2 | 26° 0 | 25°25 | 8°16 | 29° 0 | T 27 |
| F 28 | 8 28 25 | 8° 4'27 | 14°19 | 14°32 | 24°53 | 14°49 | 21°56 | 2°17 | 28°28 | 28°40 | 17° 1 | 26° 1 | 25°22 | 8°23 | 29° 1 | F 28 |
| S 29 | 8 32 22 | 9° 5'19 | 27°21 | 16°19 | 26° 8 | 15°35 | 21°52 | 2°12 | 28°29 | 28°42 | 17° 0 | 26° 2 | 25°19 | 8°30 | 29° 2 | S 29 |
| S 30 | 8 36 18 | 10° 6'09 | 10♋46 | 18° 6 | 27°23 | 16°21 | 21°48 | 2° 8 | 28°30 | 28°45 | 16°59 | 26° 3 | 25°16 | 8°37 | 29° 3 | S 30 |
| M31 | 8 40 15 | 11♒ 6'59 | 24♋35 | 19♒53 | 28♒38 | 17♓ 7 | 21♍43 | 2♍ 4 | 28♈32 | 28♒47 | 16♋57 | 26°R 3 | 25♋13 | 8♈43 | 29♈ 5 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 3 | 19n57 | 3s 8 | 24s22 | 0s53 | 22s58 | 1s 9 | 14s37 | 1s 5 | 4n 8 | 1n18 | 11n42 | 1n39 | 10n24 | 0s31 | 12s51 | 0s38 | 22n45 | 0n26 | 20n58 | 20n50 | 2s16 | 10n28 | 0s40 |
| S 2 | 22 58 | 21 22 | 2 5 | 24 28 | 0 59 | 22 48 | 1 11 | 14 21 | 1 4 | 4 8 | 1 18 | 11 43 | 1 39 | 10 24 | 0 31 | 12 50 | 0 38 | 22 45 | 0 26 | 20 59 | 20 50 | 2 13 | 10 27 | 0 40 |
| M 3 | 22 53 | 21 36 | 0 53 | 24 32 | 1 5 | 22 37 | 1 12 | 14 4 | 1 4 | 4 8 | 1 18 | 11 44 | 1 39 | 10 24 | 0 31 | 12 50 | 0 38 | 22 45 | 0 26 | 20 59 | 20 51 | 2 11 | 10 27 | 0 40 |
| T 4 | 22 47 | 20 31 | 0n24 | 24 35 | 1 11 | 22 25 | 1 14 | 13 48 | 1 3 | 4 8 | 1 18 | 11 45 | 1 40 | 10 24 | 0 31 | 12 49 | 0 38 | 22 46 | 0 26 | 20 59 | 20 52 | 2 9 | 10 27 | 0 40 |
| W 5 | 22 40 | 18 9 | 1 40 | 24 36 | 1 16 | 22 12 | 1 15 | 13 31 | 1 2 | 4 8 | 1 19 | 11 46 | 1 40 | 10 24 | 0 31 | 12 49 | 0 38 | 22 46 | 0 26 | 20 59 | 20 52 | 2 6 | 10 27 | 0 40 |
| T 6 | 22 33 | 14 41 | 2 50 | 24 36 | 1 21 | 21 59 | 1 17 | 13 14 | 1 2 | 4 8 | 1 19 | 11 47 | 1 40 | 10 24 | 0 31 | 12 48 | 0 38 | 22 46 | 0 26 | 20 59 | 20 53 | 2 4 | 10 27 | 0 40 |
| F 7 | 22 26 | 10 21 | 3 51 | 24 35 | 1 26 | 21 45 | 1 18 | 12 58 | 1 1 | 4 9 | 1 19 | 11 48 | 1 40 | 10 24 | 0 31 | 12 47 | 0 38 | 22 46 | 0 26 | 20 59 | 20 54 | 2 2 | 10 27 | 0 40 |
| S 8 | 22 18 | 5 26 | 4 37 | 24 33 | 1 31 | 21 31 | 1 19 | 12 41 | 1 0 | 4 9 | 1 20 | 11 50 | 1 40 | 10 24 | 0 31 | 12 47 | 0 38 | 22 47 | 0 26 | 20 58 | 20 54 | 1 59 | 10 27 | 0 40 |
| S 9 | 22 10 | 0 15 | 5 7 | 24 28 | 1 35 | 21 15 | 1 20 | 12 23 | 1 0 | 4 9 | 1 20 | 11 51 | 1 41 | 10 24 | 0 31 | 12 46 | 0 38 | 22 47 | 0 26 | 20 58 | 20 55 | 1 57 | 10 27 | 0 40 |
| M10 | 22 1 | 4s55 | 5 17 | 24 23 | 1 39 | 21 0 | 1 22 | 12 6 | 0 59 | 4 10 | 1 20 | 11 52 | 1 41 | 10 24 | 0 31 | 12 45 | 0 38 | 22 47 | 0 26 | 20 58 | 20 55 | 1 55 | 10 27 | 0 40 |
| T 11 | 21 52 | 9 47 | 5 8 | 24 16 | 1 43 | 20 43 | 1 23 | 11 49 | 0 58 | 4 10 | 1 20 | 11 53 | 1 41 | 10 24 | 0 31 | 12 45 | 0 38 | 22 47 | 0 27 | 20 58 | 20 56 | 1 52 | 10 27 | 0 40 |
| W12 | 21 43 | 14 6 | 4 42 | 24 7 | 1 47 | 20 26 | 1 24 | 11 32 | 0 57 | 4 11 | 1 21 | 11 54 | 1 41 | 10 24 | 0 31 | 12 44 | 0 38 | 22 47 | 0 27 | 20 58 | 20 57 | 1 50 | 10 27 | 0 40 |
| T 13 | 21 33 | 17 37 | 3 59 | 23 57 | 1 50 | 20 9 | 1 25 | 11 14 | 0 57 | 4 11 | 1 21 | 11 56 | 1 42 | 10 24 | 0 31 | 12 43 | 0 38 | 22 48 | 0 27 | 20 59 | 20 57 | 1 47 | 10 27 | 0 40 |
| F 14 | 21 22 | 20 6 | 3 4 | 23 46 | 1 53 | 19 51 | 1 26 | 10 57 | 0 56 | 4 12 | 1 21 | 11 57 | 1 42 | 10 24 | 0 31 | 12 43 | 0 38 | 22 48 | 0 27 | 20 59 | 20 58 | 1 45 | 10 27 | 0 41 |
| S 15 | 21 12 | 21 26 | 1 59 | 23 33 | 1 56 | 19 32 | 1 26 | 10 39 | 0 55 | 4 13 | 1 22 | 11 58 | 1 42 | 10 25 | 0 31 | 12 42 | 0 38 | 22 48 | 0 27 | 20 59 | 20 58 | 1 43 | 10 27 | 0 41 |
| S 16 | 21 0 | 21 34 | 0 48 | 23 18 | 1 58 | 19 12 | 1 27 | 10 21 | 0 55 | 4 14 | 1 22 | 12 0 | 1 42 | 10 25 | 0 31 | 12 41 | 0 38 | 22 48 | 0 27 | 20 59 | 20 59 | 1 40 | 10 27 | 0 41 |
| M17 | 20 49 | 20 31 | 0s23 | 23 2 | 2 0 | 18 53 | 1 28 | 10 3 | 0 54 | 4 15 | 1 22 | 12 1 | 1 42 | 10 25 | 0 31 | 12 41 | 0 38 | 22 49 | 0 27 | 20 59 | 21 0 | 1 38 | 10 27 | 0 41 |
| T 18 | 20 37 | 18 27 | 1 32 | 22 44 | 2 2 | 18 32 | 1 29 | 9 45 | 0 53 | 4 16 | 1 22 | 12 3 | 1 43 | 10 25 | 0 31 | 12 40 | 0 38 | 22 49 | 0 27 | 20 59 | 21 0 | 1 35 | 10 27 | 0 41 |
| W19 | 20 24 | 15 33 | 2 35 | 22 25 | 2 3 | 18 11 | 1 29 | 9 27 | 0 53 | 4 17 | 1 23 | 12 4 | 1 43 | 10 25 | 0 30 | 12 39 | 0 38 | 22 49 | 0 27 | 20 59 | 21 1 | 1 33 | 10 27 | 0 41 |
| T 20 | 20 12 | 12 1 | 3 30 | 22 4 | 2 4 | 17 50 | 1 30 | 9 9 | 0 52 | 4 18 | 1 23 | 12 6 | 1 43 | 10 26 | 0 30 | 12 38 | 0 38 | 22 49 | 0 27 | 20 59 | 21 1 | 1 31 | 10 28 | 0 41 |
| F 21 | 19 59 | 8 3 | 4 15 | 21 42 | 2 5 | 17 28 | 1 30 | 8 51 | 0 51 | 4 20 | 1 23 | 12 7 | 1 43 | 10 26 | 0 30 | 12 38 | 0 38 | 22 50 | 0 27 | 20 59 | 21 2 | 1 28 | 10 28 | 0 41 |
| S 22 | 19 45 | 3 49 | 4 49 | 21 18 | 2 5 | 17 5 | 1 31 | 8 33 | 0 50 | 4 21 | 1 23 | 12 9 | 1 43 | 10 26 | 0 30 | 12 37 | 0 38 | 22 50 | 0 27 | 20 59 | 21 2 | 1 26 | 10 28 | 0 41 |
| S 23 | 19 31 | 0n32 | 5 9 | 20 52 | 2 4 | 16 42 | 1 31 | 8 14 | 0 50 | 4 22 | 1 24 | 12 10 | 1 43 | 10 27 | 0 30 | 12 36 | 0 38 | 22 50 | 0 27 | 20 59 | 21 3 | 1 24 | 10 28 | 0 41 |
| M24 | 19 17 | 4 51 | 5 17 | 20 25 | 2 3 | 16 19 | 1 31 | 7 56 | 0 49 | 4 24 | 1 24 | 12 12 | 1 44 | 10 27 | 0 30 | 12 36 | 0 38 | 22 50 | 0 27 | 20 59 | 21 4 | 1 21 | 10 29 | 0 41 |
| T 25 | 19 2 | 9 2 | 5 11 | 19 56 | 2 2 | 15 55 | 1 31 | 7 38 | 0 48 | 4 25 | 1 24 | 12 13 | 1 44 | 10 27 | 0 30 | 12 35 | 0 38 | 22 50 | 0 27 | 20 59 | 21 4 | 1 19 | 10 29 | 0 41 |
| W26 | 18 48 | 12 54 | 4 51 | 19 26 | 2 0 | 15 31 | 1 31 | 7 19 | 0 48 | 4 27 | 1 24 | 12 15 | 1 44 | 10 28 | 0 30 | 12 34 | 0 38 | 22 51 | 0 27 | 20 59 | 21 5 | 1 16 | 10 29 | 0 41 |
| T 27 | 18 32 | 16 19 | 4 18 | 18 54 | 1 58 | 15 6 | 1 32 | 7 1 | 0 47 | 4 29 | 1 25 | 12 17 | 1 44 | 10 28 | 0 30 | 12 33 | 0 38 | 22 51 | 0 28 | 20 59 | 21 5 | 1 14 | 10 30 | 0 41 |
| F 28 | 18 17 | 19 4 | 3 31 | 18 20 | 1 55 | 14 41 | 1 32 | 6 42 | 0 46 | 4 30 | 1 25 | 12 18 | 1 44 | 10 29 | 0 30 | 12 33 | 0 38 | 22 51 | 0 28 | 20 59 | 21 6 | 1 12 | 10 30 | 0 41 |
| S 29 | 18 1 | 20 55 | 2 32 | 17 45 | 1 52 | 14 16 | 1 31 | 6 23 | 0 45 | 4 32 | 1 25 | 12 20 | 1 45 | 10 29 | 0 30 | 12 32 | 0 38 | 22 51 | 0 28 | 20 59 | 21 7 | 1 9 | 10 30 | 0 41 |
| S 30 | 17 45 | 21 39 | 1 24 | 17 8 | 1 48 | 13 50 | 1 31 | 6 5 | 0 45 | 4 34 | 1 25 | 12 22 | 1 45 | 10 30 | 0 30 | 12 31 | 0 38 | 22 51 | 0 28 | 20 58 | 21 7 | 1 7 | 10 31 | 0 41 |
| M31 | 17s28 | 21n 6 | 0s 8 | 16s30 | 1s43 | 13s24 | 1s31 | 5s46 | 0s44 | 4n36 | 1n26 | 12n23 | 1n45 | 10n30 | 0s30 | 12s30 | 0s38 | 22n52 | 0n28 | 20n58 | 21n 8 | 1s 4 | 10n31 | 0s41 |

Julian Day Number = 2336128.5, Delta T = 21.45 sec
Ecliptic obliquity = 23°28'45, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'45, Lahiri = 19°26'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## FEBRUARY 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 44 11 | 12♒ 7'47 | 8♌46 | 21♒40 | 29♒53 | 17♓54 | 21°R39 | 1°R59 | 28♈33 | 28♒49 | 16°R56 | 26°R 3 | 25♋ 9 | 8♈50 | 29♈ 6 | T 1 |
| W 2 | 8 48 8 | 13° 8'33 | 23°14 | 23°27 | 1♓ 7 | 18°40 | 21♍34 | 1♍55 | 28°34 | 28°51 | 16♋55 | 26♋ 2 | 25° 6 | 8°57 | 29° 8 | W 2 |
| T 3 | 8 52 4 | 14° 9'19 | 7♍55 | 25°13 | 2°22 | 19°26 | 21°29 | 1°51 | 28°36 | 28°53 | 16°54 | 26° 0 | 25° 3 | 9° 3 | 29° 9 | T 3 |
| F 4 | 8 56 1 | 15°10'03 | 22°39 | 27° 0 | 3°37 | 20°12 | 21°24 | 1°46 | 28°37 | 28°56 | 16°53 | 25°57 | 25° 0 | 9°10 | 29°11 | F 4 |
| S 5 | 8 59 57 | 16°10'46 | 7♎21 | 28°45 | 4°52 | 20°58 | 21°19 | 1°42 | 28°39 | 28°58 | 16°52 | 25°55 | 24°57 | 9°17 | 29°12 | S 5 |
| S 6 | 9 3 54 | 17°11'28 | 21°55 | 0♓30 | 6° 7 | 21°44 | 21°14 | 1°37 | 28°40 | 29° 0 | 16°51 | 25°52 | 24°54 | 9°24 | 29°14 | S 6 |
| M 7 | 9 7 51 | 18°12'10 | 6♏14 | 2°13 | 7°21 | 22°30 | 21° 9 | 1°32 | 28°42 | 29° 2 | 16°49 | 25°51 | 24°50 | 9°30 | 29°16 | M 7 |
| T 8 | 9 11 47 | 19°12'50 | 20°17 | 3°54 | 8°36 | 23°16 | 21° 3 | 1°28 | 28°43 | 29° 5 | 16°48 | 25°D50 | 24°47 | 9°37 | 29°18 | T 8 |
| W 9 | 9 15 44 | 20°13'29 | 4♐ 3 | 5°34 | 9°51 | 24° 2 | 20°57 | 1°23 | 28°45 | 29° 7 | 16°47 | 25°51 | 24°44 | 9°44 | 29°19 | W 9 |
| T 10 | 9 19 40 | 21°14'07 | 17°32 | 7°10 | 11° 6 | 24°48 | 20°51 | 1°18 | 28°47 | 29° 9 | 16°46 | 25°52 | 24°41 | 9°50 | 29°21 | T 10 |
| F 11 | 9 23 37 | 22°14'43 | 0♑45 | 8°44 | 12°20 | 25°34 | 20°45 | 1°14 | 28°49 | 29°11 | 16°45 | 25°54 | 24°38 | 9°57 | 29°23 | F 11 |
| S 12 | 9 27 33 | 23°15'19 | 13°43 | 10°13 | 13°35 | 26°20 | 20°39 | 1° 9 | 28°50 | 29°14 | 16°44 | 25°55 | 24°35 | 10° 4 | 29°25 | S 12 |
| S 13 | 9 31 30 | 24°15'53 | 26°29 | 11°39 | 14°49 | 27° 6 | 20°33 | 1° 4 | 28°52 | 29°16 | 16°43 | 25°R56 | 24°31 | 10°11 | 29°27 | S 13 |
| M14 | 9 35 26 | 25°16'25 | 9♒ 3 | 12°59 | 16° 4 | 27°52 | 20°27 | 0°59 | 28°54 | 29°18 | 16°42 | 25°55 | 24°28 | 10°17 | 29°30 | M14 |
| T 15 | 9 39 23 | 26°16'57 | 21°26 | 14°13 | 17°19 | 28°37 | 20°20 | 0°55 | 28°56 | 29°20 | 16°41 | 25°53 | 24°25 | 10°24 | 29°32 | T 15 |
| W16 | 9 43 20 | 27°17'26 | 3♓40 | 15°21 | 18°33 | 29°23 | 20°14 | 0°50 | 28°58 | 29°23 | 16°40 | 25°49 | 24°22 | 10°31 | 29°34 | W16 |
| T 17 | 9 47 16 | 28°17'54 | 15°46 | 16°22 | 19°48 | 0♈ 9 | 20° 7 | 0°45 | 29° 0 | 29°25 | 16°39 | 25°43 | 24°19 | 10°38 | 29°36 | T 17 |
| F 18 | 9 51 13 | 29°18'20 | 27°45 | 17°15 | 21° 2 | 0°54 | 20° 0 | 0°40 | 29° 2 | 29°27 | 16°39 | 25°37 | 24°15 | 10°44 | 29°39 | F 18 |
| S 19 | 9 55 9 | 0♓18'44 | 9♈40 | 18° 0 | 22°17 | 1°40 | 19°53 | 0°35 | 29° 4 | 29°30 | 16°38 | 25°30 | 24°12 | 10°51 | 29°41 | S 19 |
| S 20 | 9 59 6 | 1°19'07 | 21°31 | 18°37 | 23°31 | 2°26 | 19°46 | 0°30 | 29° 6 | 29°32 | 16°37 | 25°24 | 24° 9 | 10°58 | 29°43 | S 20 |
| M21 | 10 3 2 | 2°19'27 | 3♉23 | 19° 4 | 24°45 | 3°11 | 19°39 | 0°26 | 29° 9 | 29°34 | 16°36 | 25°19 | 24° 6 | 11° 4 | 29°46 | M21 |
| T 22 | 10 6 59 | 3°19'46 | 15°18 | 19°21 | 26° 0 | 3°57 | 19°32 | 0°21 | 29°11 | 29°36 | 16°35 | 25°16 | 24° 3 | 11°11 | 29°48 | T 22 |
| W23 | 10 10 55 | 4°20'02 | 27°22 | 19°R29 | 27°14 | 4°42 | 19°24 | 0°16 | 29°13 | 29°39 | 16°34 | 25°14 | 24° 0 | 11°18 | 29°51 | W23 |
| T 24 | 10 14 52 | 5°20'17 | 9♊39 | 19°27 | 28°28 | 5°28 | 19°17 | 0°11 | 29°15 | 29°41 | 16°33 | 25°D14 | 23°56 | 11°25 | 29°53 | T 24 |
| F 25 | 10 18 49 | 6°20'29 | 22°14 | 19°15 | 29°42 | 6°13 | 19°10 | 0° 6 | 29°18 | 29°43 | 16°33 | 25°15 | 23°53 | 11°31 | 29°56 | F 25 |
| S 26 | 10 22 45 | 7°20'40 | 5♋10 | 18°55 | 0♈56 | 6°58 | 19° 2 | 0° 2 | 29°20 | 29°45 | 16°32 | 25°16 | 23°50 | 11°38 | 29°59 | S 26 |
| S 27 | 10 26 42 | 8°20'48 | 18°33 | 18°25 | 2°11 | 7°44 | 18°55 | 29♌57 | 29°23 | 29°48 | 16°31 | 25°R17 | 23°47 | 11°45 | 0♉ 1 | S 27 |
| M28 | 10 30 38 | 9°20'55 | 2♌23 | 17°48 | 3°25 | 8°29 | 18°47 | 29°52 | 29°25 | 29°50 | 16°31 | 25°17 | 23°44 | 11°51 | 0° 4 | M28 |
| T 29 | 10 34 35 | 10♓20'59 | 16♌41 | 17♓ 4 | 4♈39 | 9♈14 | 18♍39 | 29♌47 | 29♈28 | 29♒52 | 16♋30 | 25♋15 | 23♋41 | 11♈58 | 0♉ 7 | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s11 | 19n13 | 1n10 | 15s51 | 1s38 | 12s57 | 1s31 | 5s27 | 0s43 | 4n38 | 1n26 | 12n25 | 1n45 | 10n30 | 0s30 | 12s30 | 0s38 | 22n52 | 0n28 | 20n58 | 21n 8 | 1s 2 | 10n32 | 0s41 |
| W 2 | 16 54 | 16 4 | 2 25 | 15 10 | 1 32 | 12 30 | 1 30 | 5 9 | 0 42 | 4 40 | 1 26 | 12 27 | 1 45 | 10 31 | 0 30 | 12 29 | 0 38 | 22 52 | 0 28 | 20 59 | 21 9 | 1 0 | 10 32 | 0 41 |
| T 3 | 16 37 | 11 53 | 3 31 | 14 28 | 1 25 | 12 3 | 1 30 | 4 50 | 0 42 | 4 42 | 1 26 | 12 29 | 1 45 | 10 32 | 0 30 | 12 28 | 0 38 | 22 52 | 0 28 | 20 59 | 21 9 | 0 57 | 10 33 | 0 41 |
| F 4 | 16 19 | 6 57 | 4 24 | 13 45 | 1 18 | 11 35 | 1 30 | 4 31 | 0 41 | 4 44 | 1 27 | 12 30 | 1 45 | 10 32 | 0 30 | 12 27 | 0 38 | 22 52 | 0 28 | 21 0 | 21 10 | 0 55 | 10 33 | 0 41 |
| S 5 | 16 1 | 1 39 | 4 59 | 13 1 | 1 10 | 11 7 | 1 29 | 4 12 | 0 40 | 4 47 | 1 27 | 12 32 | 1 46 | 10 33 | 0 30 | 12 26 | 0 38 | 22 53 | 0 28 | 21 0 | 21 11 | 0 52 | 10 34 | 0 41 |
| S 6 | 15 43 | 3s41 | 5 14 | 12 16 | 1 1 | 10 39 | 1 28 | 3 53 | 0 40 | 4 49 | 1 27 | 12 34 | 1 46 | 10 33 | 0 30 | 12 26 | 0 38 | 22 53 | 0 28 | 21 0 | 21 11 | 0 50 | 10 34 | 0 42 |
| M 7 | 15 24 | 8 45 | 5 10 | 11 30 | 0 52 | 10 11 | 1 28 | 3 34 | 0 39 | 4 51 | 1 27 | 12 36 | 1 46 | 10 34 | 0 30 | 12 25 | 0 38 | 22 53 | 0 28 | 21 1 | 21 12 | 0 47 | 10 35 | 0 42 |
| T 8 | 15 5 | 13 14 | 4 47 | 10 44 | 0 41 | 9 42 | 1 27 | 3 16 | 0 38 | 4 54 | 1 28 | 12 37 | 1 46 | 10 34 | 0 30 | 12 24 | 0 38 | 22 53 | 0 28 | 21 1 | 21 12 | 0 45 | 10 36 | 0 42 |
| W 9 | 14 46 | 16 56 | 4 8 | 9 58 | 0 30 | 9 13 | 1 26 | 2 57 | 0 37 | 4 56 | 1 28 | 12 39 | 1 46 | 10 35 | 0 30 | 12 23 | 0 38 | 22 53 | 0 28 | 21 1 | 21 13 | 0 43 | 10 36 | 0 42 |
| T 10 | 14 27 | 19 39 | 3 16 | 9 11 | 0 19 | 8 44 | 1 25 | 2 38 | 0 37 | 4 59 | 1 28 | 12 41 | 1 46 | 10 36 | 0 30 | 12 23 | 0 38 | 22 54 | 0 28 | 21 0 | 21 13 | 0 40 | 10 37 | 0 42 |
| F 11 | 14 7 | 21 15 | 2 14 | 8 25 | 0 7 | 8 14 | 1 24 | 2 19 | 0 36 | 5 1 | 1 28 | 12 43 | 1 46 | 10 36 | 0 30 | 12 22 | 0 38 | 22 54 | 0 28 | 21 0 | 21 14 | 0 38 | 10 37 | 0 42 |
| S 12 | 13 47 | 21 40 | 1 7 | 7 39 | 0n 6 | 7 45 | 1 23 | 2 0 | 0 35 | 5 4 | 1 28 | 12 45 | 1 46 | 10 37 | 0 30 | 12 21 | 0 38 | 22 54 | 0 28 | 21 0 | 21 15 | 0 35 | 10 38 | 0 42 |
| S 13 | 13 27 | 20 57 | 0s 3 | 6 54 | 0 20 | 7 15 | 1 22 | 1 41 | 0 34 | 5 6 | 1 29 | 12 46 | 1 47 | 10 38 | 0 30 | 12 20 | 0 38 | 22 54 | 0 29 | 21 0 | 21 15 | 0 33 | 10 39 | 0 42 |
| M14 | 13 7 | 19 10 | 1 11 | 6 10 | 0 34 | 6 45 | 1 21 | 1 22 | 0 34 | 5 9 | 1 29 | 12 48 | 1 47 | 10 38 | 0 30 | 12 19 | 0 38 | 22 54 | 0 29 | 21 0 | 21 16 | 0 31 | 10 40 | 0 42 |
| T 15 | 12 47 | 16 31 | 2 15 | 5 28 | 0 49 | 6 15 | 1 20 | 1 3 | 0 33 | 5 12 | 1 29 | 12 50 | 1 47 | 10 39 | 0 30 | 12 19 | 0 38 | 22 55 | 0 29 | 21 0 | 21 16 | 0 28 | 10 40 | 0 42 |
| W16 | 12 26 | 13 9 | 3 12 | 4 48 | 1 4 | 5 44 | 1 18 | 0 44 | 0 32 | 5 15 | 1 29 | 12 52 | 1 47 | 10 40 | 0 30 | 12 18 | 0 38 | 22 55 | 0 29 | 21 1 | 21 17 | 0 26 | 10 41 | 0 42 |
| T 17 | 12 5 | 9 17 | 3 59 | 4 11 | 1 19 | 5 14 | 1 17 | 0 25 | 0 32 | 5 17 | 1 29 | 12 54 | 1 47 | 10 41 | 0 30 | 12 17 | 0 38 | 22 55 | 0 29 | 21 2 | 21 17 | 0 23 | 10 42 | 0 42 |
| F 18 | 11 44 | 5 6 | 4 35 | 3 36 | 1 34 | 4 43 | 1 16 | 0 7 | 0 31 | 5 20 | 1 29 | 12 55 | 1 47 | 10 41 | 0 30 | 12 16 | 0 38 | 22 55 | 0 29 | 21 3 | 21 18 | 0 21 | 10 42 | 0 42 |
| S 19 | 11 23 | 0 45 | 4 59 | 3 4 | 1 49 | 4 12 | 1 14 | 0n12 | 0 30 | 5 23 | 1 30 | 12 57 | 1 47 | 10 42 | 0 30 | 12 15 | 0 38 | 22 55 | 0 29 | 21 4 | 21 19 | 0 18 | 10 43 | 0 42 |
| S 20 | 11 1 | 3n37 | 5 10 | 2 36 | 2 4 | 3 41 | 1 13 | 0 31 | 0 29 | 5 26 | 1 30 | 12 59 | 1 47 | 10 43 | 0 29 | 12 15 | 0 38 | 22 55 | 0 29 | 21 6 | 21 19 | 0 16 | 10 44 | 0 42 |
| M21 | 10 40 | 7 50 | 5 8 | 2 12 | 2 19 | 3 10 | 1 11 | 0 50 | 0 29 | 5 29 | 1 30 | 13 1 | 1 47 | 10 44 | 0 29 | 12 14 | 0 38 | 22 56 | 0 29 | 21 7 | 21 20 | 0 14 | 10 45 | 0 42 |
| T 22 | 10 18 | 11 48 | 4 52 | 1 53 | 2 33 | 2 39 | 1 9 | 1 9 | 0 28 | 5 32 | 1 30 | 13 3 | 1 47 | 10 45 | 0 29 | 12 13 | 0 38 | 22 56 | 0 29 | 21 7 | 21 20 | 0 11 | 10 46 | 0 42 |
| W23 | 9 56 | 15 20 | 4 23 | 1 37 | 2 46 | 2 8 | 1 8 | 1 27 | 0 27 | 5 35 | 1 30 | 13 4 | 1 47 | 10 45 | 0 29 | 12 12 | 0 38 | 22 56 | 0 29 | 21 8 | 21 21 | 0 9 | 10 47 | 0 42 |
| T 24 | 9 34 | 18 16 | 3 42 | 1 27 | 2 59 | 1 37 | 1 6 | 1 46 | 0 26 | 5 38 | 1 30 | 13 6 | 1 48 | 10 46 | 0 29 | 12 12 | 0 38 | 22 56 | 0 29 | 21 8 | 21 21 | 0 6 | 10 47 | 0 42 |
| F 25 | 9 12 | 20 26 | 2 50 | 1 21 | 3 10 | 1 6 | 1 4 | 2 5 | 0 26 | 5 41 | 1 30 | 13 8 | 1 48 | 10 47 | 0 29 | 12 11 | 0 38 | 22 56 | 0 29 | 21 7 | 21 22 | 0 4 | 10 48 | 0 42 |
| S 26 | 8 50 | 21 36 | 1 47 | 1 20 | 3 20 | 0 34 | 1 2 | 2 23 | 0 25 | 5 44 | 1 31 | 13 10 | 1 48 | 10 48 | 0 29 | 12 10 | 0 38 | 22 56 | 0 29 | 21 7 | 21 22 | 0 1 | 10 49 | 0 42 |
| S 27 | 8 27 | 21 35 | 0 36 | 1 24 | 3 28 | 0 3 | 1 0 | 2 42 | 0 24 | 5 47 | 1 31 | 13 11 | 1 48 | 10 49 | 0 29 | 12 9 | 0 38 | 22 56 | 0 29 | 21 7 | 21 23 | 0n 1 | 10 50 | 0 43 |
| M28 | 8 5 | 20 17 | 0n38 | 1 32 | 3 34 | 0n28 | 0 58 | 3 1 | 0 23 | 5 50 | 1 31 | 13 13 | 1 48 | 10 50 | 0 29 | 12 8 | 0 38 | 22 57 | 0 29 | 21 7 | 21 23 | 0 4 | 10 51 | 0 43 |
| T 29 | 7s42 | 17n39 | 1n53 | 1s45 | 3n39 | 1n 0 | 0s56 | 3n19 | 0s23 | 5n53 | 1n31 | 13n15 | 1n48 | 10n51 | 0s29 | 12s 8 | 0s38 | 22n57 | 0n29 | 21n 7 | 21n24 | 0n 6 | 10n52 | 0s43 |

Julian Day Number = 2336159.5, Delta T = 21.40 sec
Ecliptic obliquity = 23°28'45, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'50, Lahiri = 19°26'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## MARCH 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 38 31 | 11♓21'01 | 1♍24 | 16°R14 | 5♈53 | 9♈59 | 18°R32 | 29°R43 | 29♈30 | 29♒54 | 16°R29 | 25°R11 | 23♋37 | 12♈ 5 | 0♉10 | W 1 |
| T 2 | 10 42 28 | 12°21'02 | 16°24 | 15♓20 | 7° 7 | 10°44 | 18♍24 | 29♌38 | 29°33 | 29°57 | 16♋28 | 25♋ 6 | 23°34 | 12°12 | 0°13 | T 2 |
| F 3 | 10 46 24 | 13°21'00 | 1♎33 | 14°22 | 8°21 | 11°29 | 18°16 | 29°33 | 29°35 | 29°59 | 16°28 | 24°58 | 23°31 | 12°18 | 0°16 | F 3 |
| S 4 | 10 50 21 | 14°20'56 | 16°41 | 13°23 | 9°34 | 12°14 | 18° 9 | 29°29 | 29°38 | 0♓ 1 | 16°27 | 24°51 | 23°28 | 12°25 | 0°19 | S 4 |
| S 5 | 10 54 17 | 15°20'51 | 1♏38 | 12°23 | 10°48 | 12°59 | 18° 1 | 29°24 | 29°41 | 0° 3 | 16°27 | 24°44 | 23°25 | 12°32 | 0°22 | S 5 |
| M 6 | 10 58 14 | 16°20'44 | 16°16 | 11°24 | 12° 2 | 13°44 | 17°53 | 29°20 | 29°43 | 0° 6 | 16°26 | 24°38 | 23°21 | 12°38 | 0°25 | M 6 |
| T 7 | 11 2 11 | 17°20'36 | 0♐31 | 10°27 | 13°16 | 14°29 | 17°45 | 29°15 | 29°46 | 0° 8 | 16°26 | 24°35 | 23°18 | 12°45 | 0°28 | T 7 |
| W 8 | 11 6 7 | 18°20'26 | 14°20 | 9°34 | 14°29 | 15°14 | 17°37 | 29°11 | 29°49 | 0°10 | 16°25 | 24°D33 | 23°15 | 12°52 | 0°31 | W 8 |
| T 9 | 11 10 4 | 19°20'14 | 27°45 | 8°45 | 15°43 | 15°59 | 17°30 | 29° 6 | 29°52 | 0°12 | 16°25 | 24°33 | 23°12 | 12°59 | 0°34 | T 9 |
| F 10 | 11 14 0 | 20°20'00 | 10♑48 | 8° 0 | 16°57 | 16°44 | 17°22 | 29° 2 | 29°54 | 0°14 | 16°24 | 24°34 | 23° 9 | 13° 5 | 0°37 | F 10 |
| S 11 | 11 17 57 | 21°19'45 | 23°32 | 7°21 | 18°10 | 17°28 | 17°14 | 28°58 | 29°57 | 0°17 | 16°24 | 24°R35 | 23° 6 | 13°12 | 0°41 | S 11 |
| S 12 | 11 21 53 | 22°19'28 | 6♒ 2 | 6°48 | 19°24 | 18°13 | 17° 6 | 28°53 | 0♉ 0 | 0°19 | 16°23 | 24°34 | 23° 2 | 13°19 | 0°44 | S 12 |
| M13 | 11 25 50 | 23°19'09 | 18°20 | 6°20 | 20°37 | 18°58 | 16°59 | 28°49 | 0° 3 | 0°21 | 16°23 | 24°31 | 22°59 | 13°26 | 0°47 | M13 |
| T 14 | 11 29 46 | 24°18'49 | 0♓30 | 6° 0 | 21°51 | 19°42 | 16°51 | 28°45 | 0° 6 | 0°23 | 16°22 | 24°26 | 22°56 | 13°32 | 0°50 | T 14 |
| W15 | 11 33 43 | 25°18'26 | 12°32 | 5°45 | 23° 4 | 20°27 | 16°43 | 28°41 | 0° 9 | 0°25 | 16°22 | 24°18 | 22°53 | 13°39 | 0°54 | W15 |
| T 16 | 11 37 40 | 26°18'01 | 24°30 | 5°36 | 24°17 | 21°11 | 16°36 | 28°37 | 0°12 | 0°27 | 16°22 | 24° 7 | 22°50 | 13°46 | 0°57 | T 16 |
| F 17 | 11 41 36 | 27°17'35 | 6♈25 | 5°D34 | 25°31 | 21°56 | 16°28 | 28°33 | 0°15 | 0°29 | 16°21 | 23°55 | 22°46 | 13°52 | 1° 1 | F 17 |
| S 18 | 11 45 33 | 28°17'06 | 18°17 | 5°37 | 26°44 | 22°40 | 16°20 | 28°29 | 0°18 | 0°31 | 16°21 | 23°43 | 22°43 | 13°59 | 1° 4 | S 18 |
| S 19 | 11 49 29 | 29°16'35 | 0♉ 9 | 5°46 | 27°57 | 23°24 | 16°13 | 28°25 | 0°21 | 0°33 | 16°21 | 23°30 | 22°40 | 14° 6 | 1° 8 | S 19 |
| M20 | 11 53 26 | 0♈16'02 | 12° 2 | 6° 0 | 29°10 | 24° 9 | 16° 5 | 28°22 | 0°24 | 0°35 | 16°21 | 23°20 | 22°37 | 14°13 | 1°11 | M20 |
| T 21 | 11 57 22 | 1°15'27 | 23°58 | 6°20 | 0♉23 | 24°53 | 15°58 | 28°18 | 0°27 | 0°37 | 16°20 | 23°11 | 22°34 | 14°19 | 1°15 | T 21 |
| W22 | 12 1 19 | 2°14'49 | 6♊ 2 | 6°44 | 1°36 | 25°37 | 15°51 | 28°14 | 0°30 | 0°39 | 16°20 | 23° 6 | 22°31 | 14°26 | 1°18 | W22 |
| T 23 | 12 5 15 | 3°14'09 | 18°17 | 7°13 | 2°49 | 26°21 | 15°44 | 28°11 | 0°33 | 0°41 | 16°20 | 23° 2 | 22°27 | 14°33 | 1°22 | T 23 |
| F 24 | 12 9 12 | 4°13'27 | 0♋47 | 7°46 | 4° 2 | 27° 5 | 15°37 | 28° 7 | 0°37 | 0°43 | 16°20 | 23°D 1 | 22°24 | 14°39 | 1°25 | F 24 |
| S 25 | 12 13 9 | 5°12'43 | 13°38 | 8°24 | 5°15 | 27°49 | 15°30 | 28° 4 | 0°40 | 0°45 | 16°20 | 23° 1 | 22°21 | 14°46 | 1°29 | S 25 |
| S 26 | 12 17 5 | 6°11'56 | 26°52 | 9° 5 | 6°28 | 28°34 | 15°23 | 28° 1 | 0°43 | 0°47 | 16°20 | 23°R 2 | 22°18 | 14°53 | 1°33 | S 26 |
| M27 | 12 21 2 | 7°11'07 | 10♌35 | 9°50 | 7°40 | 29°17 | 15°16 | 27°58 | 0°46 | 0°49 | 16°20 | 23° 1 | 22°15 | 15° 0 | 1°36 | M27 |
| T 28 | 12 24 58 | 8°10'16 | 24°47 | 10°39 | 8°53 | 0♉ 1 | 15° 9 | 27°55 | 0°49 | 0°51 | 16°20 | 22°57 | 22°12 | 15° 6 | 1°40 | T 28 |
| W29 | 12 28 55 | 9° 9'22 | 9♍27 | 11°30 | 10° 6 | 0°45 | 15° 2 | 27°52 | 0°53 | 0°53 | 16°D20 | 22°51 | 22° 8 | 15°13 | 1°44 | W29 |
| T 30 | 12 32 51 | 10° 8'26 | 24°31 | 12°25 | 11°18 | 1°29 | 14°56 | 27°49 | 0°56 | 0°55 | 16°20 | 22°43 | 22° 5 | 15°20 | 1°47 | T 30 |
| F 31 | 12 36 48 | 11♈ 7'28 | 9♎48 | 13♓23 | 12♉30 | 2♉13 | 14♍50 | 27♌46 | 0♉59 | 0♓57 | 16♋20 | 22♋33 | 22♋ 2 | 15♈27 | 1♉51 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 7s19 | 13n50 | 3n 2 | 2s 2 | 3n41 | 1n31 | 0s54 | 3n37 | 0s22 | 5n56 | 1n31 | 13n16 | 1n48 | 10n52 | 0s29 | 12s 7 | 0s38 | 22n57 | 0n29 | 21n 8 | 21n25 | 0n 8 | 10n53 | 0s43 |
| T 2 | 6 56 | 9 4 | 4 0 | 2 23 | 3 42 | 2 2 | 0 52 | 3 56 | 0 21 | 5 59 | 1 31 | 13 18 | 1 48 | 10 52 | 0 29 | 12 6 | 0 38 | 22 57 | 0 30 | 21 9 | 21 25 | 0 11 | 10 54 | 0 43 |
| F 3 | 6 33 | 3 41 | 4 42 | 2 46 | 3 40 | 2 33 | 0 49 | 4 14 | 0 21 | 6 3 | 1 31 | 13 20 | 1 48 | 10 53 | 0 29 | 12 5 | 0 38 | 22 57 | 0 30 | 21 10 | 21 26 | 0 13 | 10 55 | 0 43 |
| S 4 | 6 10 | 1s54 | 5 4 | 3 13 | 3 36 | 3 5 | 0 47 | 4 32 | 0 20 | 6 6 | 1 31 | 13 21 | 1 48 | 10 54 | 0 29 | 12 5 | 0 38 | 22 57 | 0 30 | 21 12 | 21 26 | 0 16 | 10 56 | 0 43 |
| S 5 | 5 47 | 7 18 | 5 5 | 3 41 | 3 31 | 3 36 | 0 45 | 4 51 | 0 19 | 6 9 | 1 31 | 13 23 | 1 48 | 10 55 | 0 29 | 12 4 | 0 38 | 22 57 | 0 30 | 21 13 | 21 27 | 0 18 | 10 57 | 0 43 |
| M 6 | 5 24 | 12 10 | 4 46 | 4 10 | 3 23 | 4 7 | 0 42 | 5 9 | 0 18 | 6 12 | 1 31 | 13 25 | 1 48 | 10 56 | 0 29 | 12 3 | 0 38 | 22 58 | 0 30 | 21 14 | 21 27 | 0 21 | 10 58 | 0 43 |
| T 7 | 5 0 | 16 14 | 4 9 | 4 40 | 3 14 | 4 38 | 0 40 | 5 27 | 0 18 | 6 15 | 1 31 | 13 26 | 1 48 | 10 57 | 0 29 | 12 2 | 0 38 | 22 58 | 0 30 | 21 15 | 21 28 | 0 23 | 10 59 | 0 43 |
| W 8 | 4 37 | 19 16 | 3 19 | 5 10 | 3 3 | 5 9 | 0 38 | 5 45 | 0 17 | 6 18 | 1 31 | 13 28 | 1 48 | 10 58 | 0 29 | 12 1 | 0 38 | 22 58 | 0 30 | 21 15 | 21 28 | 0 26 | 11 0 | 0 43 |
| T 9 | 4 14 | 21 9 | 2 19 | 5 39 | 2 51 | 5 39 | 0 35 | 6 3 | 0 16 | 6 21 | 1 31 | 13 29 | 1 48 | 10 59 | 0 29 | 12 1 | 0 38 | 22 58 | 0 30 | 21 15 | 21 29 | 0 28 | 11 1 | 0 43 |
| F 10 | 3 50 | 21 49 | 1 13 | 6 8 | 2 38 | 6 10 | 0 32 | 6 21 | 0 16 | 6 24 | 1 31 | 13 31 | 1 48 | 11 0 | 0 29 | 12 0 | 0 38 | 22 58 | 0 30 | 21 15 | 21 29 | 0 31 | 11 2 | 0 43 |
| S 11 | 3 27 | 21 20 | 0 6 | 6 35 | 2 25 | 6 41 | 0 30 | 6 39 | 0 15 | 6 27 | 1 32 | 13 32 | 1 48 | 11 1 | 0 29 | 11 59 | 0 38 | 22 58 | 0 30 | 21 15 | 21 30 | 0 33 | 11 3 | 0 43 |
| S 12 | 3 3 | 19 47 | 1s 1 | 7 1 | 2 10 | 7 11 | 0 27 | 6 56 | 0 14 | 6 30 | 1 32 | 13 34 | 1 48 | 11 2 | 0 29 | 11 58 | 0 38 | 22 58 | 0 30 | 21 15 | 21 31 | 0 35 | 11 4 | 0 43 |
| M13 | 2 39 | 17 19 | 2 3 | 7 24 | 1 56 | 7 41 | 0 25 | 7 14 | 0 13 | 6 33 | 1 32 | 13 35 | 1 48 | 11 3 | 0 29 | 11 58 | 0 38 | 22 58 | 0 30 | 21 15 | 21 31 | 0 38 | 11 5 | 0 43 |
| T 14 | 2 16 | 14 7 | 2 59 | 7 46 | 1 41 | 8 11 | 0 22 | 7 31 | 0 13 | 6 36 | 1 32 | 13 37 | 1 48 | 11 4 | 0 29 | 11 57 | 0 38 | 22 58 | 0 30 | 21 16 | 21 32 | 0 40 | 11 7 | 0 43 |
| W15 | 1 52 | 10 21 | 3 47 | 8 5 | 1 26 | 8 41 | 0 19 | 7 49 | 0 12 | 6 39 | 1 32 | 13 38 | 1 48 | 11 6 | 0 29 | 11 56 | 0 38 | 22 59 | 0 30 | 21 18 | 21 32 | 0 43 | 11 8 | 0 43 |
| T 16 | 1 28 | 6 13 | 4 23 | 8 22 | 1 11 | 9 11 | 0 16 | 8 6 | 0 11 | 6 42 | 1 32 | 13 40 | 1 48 | 11 7 | 0 29 | 11 56 | 0 38 | 22 59 | 0 30 | 21 19 | 21 33 | 0 45 | 11 9 | 0 43 |
| F 17 | 1 5 | 1 52 | 4 48 | 8 37 | 0 56 | 9 40 | 0 13 | 8 24 | 0 11 | 6 45 | 1 32 | 13 41 | 1 48 | 11 8 | 0 29 | 11 55 | 0 38 | 22 59 | 0 30 | 21 22 | 21 33 | 0 48 | 11 10 | 0 44 |
| S 18 | 0 41 | 2n33 | 5 1 | 8 49 | 0 42 | 10 10 | 0 11 | 8 41 | 0 10 | 6 48 | 1 32 | 13 42 | 1 48 | 11 9 | 0 29 | 11 54 | 0 38 | 22 59 | 0 30 | 21 24 | 21 34 | 0 50 | 11 11 | 0 44 |
| S 19 | 0 17 | 6 51 | 5 0 | 8 59 | 0 27 | 10 39 | 0 8 | 8 58 | 0 9 | 6 51 | 1 32 | 13 44 | 1 48 | 11 10 | 0 29 | 11 53 | 0 38 | 22 59 | 0 30 | 21 26 | 21 34 | 0 53 | 11 12 | 0 44 |
| M20 | 0n 6 | 10 55 | 4 47 | 9 7 | 0 14 | 11 7 | 0 5 | 9 15 | 0 8 | 6 54 | 1 31 | 13 45 | 1 48 | 11 11 | 0 29 | 11 53 | 0 38 | 22 59 | 0 31 | 21 28 | 21 35 | 0 55 | 11 13 | 0 44 |
| T 21 | 0 30 | 14 35 | 4 20 | 9 12 | 0 0 | 11 36 | 0 2 | 9 32 | 0 8 | 6 57 | 1 31 | 13 46 | 1 48 | 11 12 | 0 29 | 11 52 | 0 38 | 22 59 | 0 31 | 21 29 | 21 35 | 0 58 | 11 15 | 0 44 |
| W22 | 0 54 | 17 42 | 3 42 | 9 15 | 0s13 | 12 4 | 0n 1 | 9 49 | 0 7 | 7 0 | 1 31 | 13 47 | 1 48 | 11 13 | 0 29 | 11 51 | 0 38 | 22 59 | 0 31 | 21 30 | 21 36 | 1 0 | 11 16 | 0 44 |
| T 23 | 1 17 | 20 5 | 2 53 | 9 16 | 0 25 | 12 32 | 0 4 | 10 5 | 0 6 | 7 2 | 1 31 | 13 49 | 1 48 | 11 14 | 0 29 | 11 51 | 0 38 | 22 59 | 0 31 | 21 31 | 21 36 | 1 3 | 11 17 | 0 44 |
| F 24 | 1 41 | 21 34 | 1 55 | 9 14 | 0 37 | 13 0 | 0 7 | 10 22 | 0 6 | 7 5 | 1 31 | 13 50 | 1 48 | 11 15 | 0 29 | 11 50 | 0 38 | 22 59 | 0 31 | 21 31 | 21 37 | 1 5 | 11 18 | 0 44 |
| S 25 | 2 4 | 21 57 | 0 50 | 9 11 | 0 48 | 13 27 | 0 10 | 10 38 | 0 5 | 7 8 | 1 31 | 13 51 | 1 48 | 11 17 | 0 29 | 11 49 | 0 38 | 22 59 | 0 31 | 21 31 | 21 37 | 1 7 | 11 19 | 0 44 |
| S 26 | 2 28 | 21 9 | 0n20 | 9 5 | 0 59 | 13 54 | 0 13 | 10 55 | 0 4 | 7 10 | 1 31 | 13 52 | 1 48 | 11 18 | 0 29 | 11 49 | 0 38 | 22 59 | 0 31 | 21 31 | 21 38 | 1 10 | 11 20 | 0 44 |
| M27 | 2 51 | 19 5 | 1 32 | 8 58 | 1 9 | 14 21 | 0 16 | 11 11 | 0 4 | 7 13 | 1 31 | 13 53 | 1 48 | 11 19 | 0 29 | 11 48 | 0 38 | 22 59 | 0 31 | 21 31 | 21 38 | 1 12 | 11 22 | 0 44 |
| T 28 | 3 15 | 15 47 | 2 40 | 8 48 | 1 19 | 14 47 | 0 19 | 11 27 | 0 3 | 7 16 | 1 31 | 13 54 | 1 48 | 11 20 | 0 29 | 11 47 | 0 38 | 22 59 | 0 31 | 21 31 | 21 39 | 1 15 | 11 23 | 0 44 |
| W29 | 3 38 | 11 25 | 3 39 | 8 37 | 1 28 | 15 13 | 0 22 | 11 43 | 0 2 | 7 18 | 1 31 | 13 55 | 1 47 | 11 21 | 0 29 | 11 47 | 0 38 | 23 0 | 0 31 | 21 32 | 21 39 | 1 17 | 11 24 | 0 44 |
| T 30 | 4 1 | 6 15 | 4 25 | 8 24 | 1 37 | 15 39 | 0 25 | 11 59 | 0 2 | 7 20 | 1 31 | 13 56 | 1 47 | 11 22 | 0 29 | 11 46 | 0 38 | 23 0 | 0 31 | 21 34 | 21 40 | 1 20 | 11 25 | 0 44 |
| F 31 | 4n25 | 0n36 | 4n53 | 8s 9 | 1s45 | 16n 4 | 0n28 | 12n15 | 0s 1 | 7n23 | 1n31 | 13n57 | 1n47 | 11n23 | 0s29 | 11s45 | 0s38 | 23n 0 | 0n31 | 21n35 | 21n40 | 1n22 | 11n27 | 0s44 |

Julian Day Number = 2336188.5, Delta T = 21.36 sec
Ecliptic obliquity = 23°28'46, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'54, Lahiri = 19°26'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## APRIL 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 40 44 | 12♈ 6'27 | 25♎10 | 14♓24 | 13♉43 | 2♉57 | 14°R43 | 27°R43 | 1♉ 3 | 0♓59 | 16♋20 | 22°R22 | 21♋59 | 15♈33 | 1♉55 | S 1 |
| S 2 | 12 44 41 | 13° 5'25 | 10♏23 | 15°27 | 14°55 | 3°40 | 14♍37 | 27♌40 | 1° 6 | 1° 1 | 16°20 | 22♋12 | 21°56 | 15°40 | 1°59 | S 2 |
| M 3 | 12 48 38 | 14° 4'21 | 25°17 | 16°33 | 16° 7 | 4°24 | 14°31 | 27°38 | 1° 9 | 1° 2 | 16°20 | 22° 3 | 21°52 | 15°47 | 2° 3 | M 3 |
| T 4 | 12 52 34 | 15° 3'15 | 9♐46 | 17°41 | 17°20 | 5° 7 | 14°25 | 27°35 | 1°13 | 1° 4 | 16°20 | 21°57 | 21°49 | 15°53 | 2° 6 | T 4 |
| W 5 | 12 56 31 | 16° 2'08 | 23°45 | 18°52 | 18°32 | 5°51 | 14°19 | 27°33 | 1°16 | 1° 6 | 16°20 | 21°54 | 21°46 | 16° 0 | 2°10 | W 5 |
| T 6 | 13 0 27 | 17° 0'59 | 7♑16 | 20° 4 | 19°44 | 6°34 | 14°14 | 27°31 | 1°19 | 1° 8 | 16°20 | 21°52 | 21°43 | 16° 7 | 2°14 | T 6 |
| F 7 | 13 4 24 | 17°59'48 | 20°21 | 21°20 | 20°56 | 7°18 | 14° 8 | 27°28 | 1°23 | 1° 9 | 16°21 | 21°52 | 21°40 | 16°14 | 2°18 | F 7 |
| S 8 | 13 8 20 | 18°58'35 | 3♒ 3 | 22°37 | 22° 8 | 8° 1 | 14° 3 | 27°26 | 1°26 | 1°11 | 16°21 | 21°52 | 21°37 | 16°20 | 2°22 | S 8 |
| S 9 | 13 12 17 | 19°57'20 | 15°27 | 23°56 | 23°19 | 8°44 | 13°58 | 27°24 | 1°29 | 1°13 | 16°21 | 21°50 | 21°33 | 16°27 | 2°26 | S 9 |
| M10 | 13 16 13 | 20°56'04 | 27°37 | 25°17 | 24°31 | 9°28 | 13°53 | 27°22 | 1°33 | 1°14 | 16°21 | 21°47 | 21°30 | 16°34 | 2°30 | M10 |
| T 11 | 13 20 10 | 21°54'46 | 9♓39 | 26°40 | 25°43 | 10°11 | 13°48 | 27°20 | 1°36 | 1°16 | 16°22 | 21°40 | 21°27 | 16°40 | 2°34 | T 11 |
| W12 | 13 24 7 | 22°53'26 | 21°34 | 28° 5 | 26°55 | 10°54 | 13°43 | 27°19 | 1°40 | 1°17 | 16°22 | 21°31 | 21°24 | 16°47 | 2°37 | W12 |
| T 13 | 13 28 3 | 23°52'04 | 3♈27 | 29°32 | 28° 6 | 11°37 | 13°38 | 27°17 | 1°43 | 1°19 | 16°22 | 21°19 | 21°21 | 16°54 | 2°41 | T 13 |
| F 14 | 13 32 0 | 24°50'41 | 15°18 | 1♈ 1 | 29°18 | 12°20 | 13°34 | 27°16 | 1°47 | 1°21 | 16°23 | 21° 5 | 21°17 | 17° 1 | 2°45 | F 14 |
| S 15 | 13 35 56 | 25°49'15 | 27°11 | 2°31 | 0♊29 | 13° 3 | 13°30 | 27°14 | 1°50 | 1°22 | 16°23 | 20°51 | 21°14 | 17° 7 | 2°49 | S 15 |
| S 16 | 13 39 53 | 26°47'48 | 9♉ 5 | 4° 3 | 1°40 | 13°46 | 13°26 | 27°13 | 1°53 | 1°24 | 16°23 | 20°37 | 21°11 | 17°14 | 2°53 | S 16 |
| M17 | 13 43 49 | 27°46'19 | 21° 2 | 5°37 | 2°52 | 14°29 | 13°22 | 27°12 | 1°57 | 1°25 | 16°24 | 20°24 | 21° 8 | 17°21 | 2°57 | M17 |
| T 18 | 13 47 46 | 28°44'48 | 3♊ 5 | 7°13 | 4° 3 | 15°12 | 13°18 | 27°11 | 2° 0 | 1°26 | 16°24 | 20°14 | 21° 5 | 17°28 | 3° 1 | T 18 |
| W19 | 13 51 42 | 29°43'14 | 15°14 | 8°50 | 5°14 | 15°55 | 13°14 | 27°10 | 2° 4 | 1°28 | 16°25 | 20° 7 | 21° 2 | 17°34 | 3° 5 | W19 |
| T 20 | 13 55 39 | 0♉41'39 | 27°34 | 10°30 | 6°25 | 16°38 | 13°11 | 27° 9 | 2° 7 | 1°29 | 16°25 | 20° 3 | 20°58 | 17°41 | 3° 9 | T 20 |
| F 21 | 13 59 35 | 1°40'02 | 10♋ 6 | 12°10 | 7°36 | 17°21 | 13° 8 | 27° 8 | 2°11 | 1°31 | 16°26 | 20° 1 | 20°55 | 17°48 | 3°13 | F 21 |
| S 22 | 14 3 32 | 2°38'22 | 22°56 | 13°53 | 8°47 | 18° 3 | 13° 4 | 27° 7 | 2°14 | 1°32 | 16°27 | 20°D 1 | 20°52 | 17°54 | 3°17 | S 22 |
| S 23 | 14 7 29 | 3°36'41 | 6♌ 6 | 15°38 | 9°57 | 18°46 | 13° 2 | 27° 7 | 2°18 | 1°33 | 16°27 | 20°R 1 | 20°49 | 18° 1 | 3°21 | S 23 |
| M24 | 14 11 25 | 4°34'57 | 19°41 | 17°24 | 11° 8 | 19°29 | 12°59 | 27° 6 | 2°21 | 1°35 | 16°28 | 20° 0 | 20°46 | 18° 8 | 3°25 | M24 |
| T 25 | 14 15 22 | 5°33'11 | 3♍42 | 19°12 | 12°19 | 20°11 | 12°56 | 27° 6 | 2°25 | 1°36 | 16°28 | 19°58 | 20°43 | 18°15 | 3°29 | T 25 |
| W26 | 14 19 18 | 6°31'23 | 18°10 | 21° 2 | 13°29 | 20°54 | 12°54 | 27° 6 | 2°28 | 1°37 | 16°29 | 19°53 | 20°39 | 18°21 | 3°33 | W26 |
| T 27 | 14 23 15 | 7°29'33 | 3♎ 1 | 22°53 | 14°39 | 21°36 | 12°52 | 27° 5 | 2°31 | 1°38 | 16°30 | 19°45 | 20°36 | 18°28 | 3°37 | T 27 |
| F 28 | 14 27 11 | 8°27'41 | 18°10 | 24°46 | 15°50 | 22°18 | 12°50 | 27°D 5 | 2°35 | 1°39 | 16°30 | 19°36 | 20°33 | 18°35 | 3°41 | F 28 |
| S 29 | 14 31 8 | 9°25'48 | 3♏26 | 26°41 | 17° 0 | 23° 1 | 12°48 | 27° 5 | 2°38 | 1°41 | 16°31 | 19°26 | 20°30 | 18°41 | 3°45 | S 29 |
| S 30 | 14 35 4 | 10♉23'52 | 18♏38 | 28♈38 | 18♊10 | 23♉43 | 12♍46 | 27♌ 6 | 2♉42 | 1♓42 | 16♋32 | 19♋16 | 20♋27 | 18♈48 | 3♉49 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n48 | 5s 5 | 5n 0 | 7s53 | 1s52 | 16n29 | 0n31 | 12n31 | 0s 0 | 7n25 | 1n31 | 13n58 | 1n47 | 11n25 | 0s29 | 11s45 | 0s38 | 23n 0 | 0n31 | 21n37 | 21n41 | 1n25 | 11n28 | 0s44 |
| S 2 | 5 11 | 10 26 | 4 46 | 7 34 | 1 59 | 16 53 | 0 34 | 12 46 | 0n 0 | 7 27 | 1 31 | 13 59 | 1 47 | 11 26 | 0 29 | 11 44 | 0 38 | 23 0 | 0 31 | 21 39 | 21 41 | 1 27 | 11 29 | 0 45 |
| M 3 | 5 34 | 15 2 | 4 12 | 7 14 | 2 5 | 17 17 | 0 38 | 13 1 | 0 1 | 7 30 | 1 30 | 14 0 | 1 47 | 11 27 | 0 29 | 11 43 | 0 39 | 23 0 | 0 31 | 21 40 | 21 42 | 1 30 | 11 30 | 0 45 |
| T 4 | 5 56 | 18 36 | 3 23 | 6 53 | 2 11 | 17 41 | 0 41 | 13 17 | 0 2 | 7 32 | 1 30 | 14 0 | 1 47 | 11 28 | 0 29 | 11 43 | 0 39 | 23 0 | 0 31 | 21 41 | 21 42 | 1 32 | 11 32 | 0 45 |
| W 5 | 6 19 | 20 57 | 2 23 | 6 30 | 2 16 | 18 4 | 0 44 | 13 32 | 0 2 | 7 34 | 1 30 | 14 1 | 1 47 | 11 29 | 0 29 | 11 42 | 0 39 | 23 0 | 0 31 | 21 42 | 21 43 | 1 35 | 11 33 | 0 45 |
| T 6 | 6 42 | 22 0 | 1 16 | 6 6 | 2 21 | 18 27 | 0 47 | 13 47 | 0 3 | 7 36 | 1 30 | 14 2 | 1 47 | 11 30 | 0 29 | 11 42 | 0 39 | 23 0 | 0 31 | 21 42 | 21 43 | 1 37 | 11 34 | 0 45 |
| F 7 | 7 4 | 21 48 | 0 8 | 5 40 | 2 25 | 18 49 | 0 50 | 14 2 | 0 4 | 7 38 | 1 30 | 14 3 | 1 47 | 11 32 | 0 29 | 11 41 | 0 39 | 23 0 | 0 31 | 21 42 | 21 44 | 1 40 | 11 35 | 0 45 |
| S 8 | 7 27 | 20 28 | 0s59 | 5 12 | 2 28 | 19 11 | 0 53 | 14 16 | 0 4 | 7 40 | 1 30 | 14 3 | 1 47 | 11 33 | 0 29 | 11 40 | 0 39 | 23 0 | 0 31 | 21 42 | 21 44 | 1 42 | 11 37 | 0 45 |
| S 9 | 7 49 | 18 10 | 2 1 | 4 44 | 2 31 | 19 32 | 0 56 | 14 31 | 0 5 | 7 42 | 1 30 | 14 4 | 1 47 | 11 34 | 0 28 | 11 40 | 0 39 | 23 0 | 0 32 | 21 42 | 21 45 | 1 45 | 11 38 | 0 45 |
| M10 | 8 11 | 15 5 | 2 57 | 4 14 | 2 34 | 19 53 | 0 59 | 14 45 | 0 6 | 7 44 | 1 30 | 14 4 | 1 47 | 11 35 | 0 28 | 11 39 | 0 39 | 23 0 | 0 32 | 21 43 | 21 45 | 1 47 | 11 39 | 0 45 |
| T 11 | 8 33 | 11 25 | 3 44 | 3 42 | 2 36 | 20 13 | 1 2 | 15 0 | 0 6 | 7 45 | 1 29 | 14 5 | 1 46 | 11 36 | 0 28 | 11 39 | 0 39 | 23 0 | 0 32 | 21 44 | 21 46 | 1 50 | 11 40 | 0 45 |
| W12 | 8 55 | 7 20 | 4 20 | 3 10 | 2 37 | 20 33 | 1 5 | 15 14 | 0 7 | 7 47 | 1 29 | 14 5 | 1 46 | 11 38 | 0 28 | 11 38 | 0 39 | 23 0 | 0 32 | 21 45 | 21 46 | 1 52 | 11 42 | 0 45 |
| T 13 | 9 17 | 2 59 | 4 45 | 2 36 | 2 38 | 20 52 | 1 8 | 15 28 | 0 8 | 7 49 | 1 29 | 14 6 | 1 46 | 11 39 | 0 28 | 11 38 | 0 39 | 23 0 | 0 32 | 21 47 | 21 47 | 1 55 | 11 43 | 0 45 |
| F 14 | 9 38 | 1n27 | 4 58 | 2 1 | 2 38 | 21 11 | 1 11 | 15 42 | 0 8 | 7 50 | 1 29 | 14 6 | 1 46 | 11 40 | 0 28 | 11 37 | 0 39 | 23 0 | 0 32 | 21 49 | 21 47 | 1 57 | 11 44 | 0 45 |
| S 15 | 10 0 | 5 51 | 4 58 | 1 25 | 2 38 | 21 29 | 1 14 | 15 55 | 0 9 | 7 52 | 1 29 | 14 7 | 1 46 | 11 41 | 0 28 | 11 37 | 0 39 | 23 0 | 0 32 | 21 52 | 21 48 | 2 0 | 11 46 | 0 45 |
| S 16 | 10 21 | 10 3 | 4 44 | 0 47 | 2 37 | 21 47 | 1 17 | 16 9 | 0 9 | 7 53 | 1 29 | 14 7 | 1 46 | 11 42 | 0 28 | 11 36 | 0 39 | 23 0 | 0 32 | 21 54 | 21 48 | 2 2 | 11 47 | 0 46 |
| M17 | 10 42 | 13 53 | 4 18 | 0 9 | 2 36 | 22 4 | 1 19 | 16 22 | 0 10 | 7 55 | 1 28 | 14 7 | 1 46 | 11 44 | 0 28 | 11 36 | 0 39 | 23 0 | 0 32 | 21 56 | 21 49 | 2 5 | 11 48 | 0 46 |
| T 18 | 11 3 | 17 12 | 3 41 | 0n31 | 2 34 | 22 20 | 1 22 | 16 36 | 0 11 | 7 56 | 1 28 | 14 8 | 1 46 | 11 45 | 0 28 | 11 35 | 0 39 | 23 0 | 0 32 | 21 57 | 21 49 | 2 7 | 11 49 | 0 46 |
| W19 | 11 24 | 19 48 | 2 53 | 1 11 | 2 32 | 22 36 | 1 25 | 16 49 | 0 11 | 7 57 | 1 28 | 14 8 | 1 46 | 11 46 | 0 28 | 11 35 | 0 39 | 23 0 | 0 32 | 21 58 | 21 50 | 2 10 | 11 51 | 0 46 |
| T 20 | 11 44 | 21 32 | 1 56 | 1 53 | 2 29 | 22 51 | 1 28 | 17 2 | 0 12 | 7 58 | 1 28 | 14 8 | 1 46 | 11 47 | 0 28 | 11 34 | 0 39 | 23 0 | 0 32 | 21 59 | 21 50 | 2 12 | 11 52 | 0 46 |
| F 21 | 12 4 | 22 14 | 0 52 | 2 35 | 2 25 | 23 6 | 1 30 | 17 14 | 0 13 | 7 59 | 1 28 | 14 8 | 1 46 | 11 48 | 0 28 | 11 34 | 0 39 | 23 0 | 0 32 | 21 59 | 21 51 | 2 15 | 11 53 | 0 46 |
| S 22 | 12 25 | 21 47 | 0n15 | 3 19 | 2 21 | 23 20 | 1 33 | 17 27 | 0 13 | 8 0 | 1 28 | 14 8 | 1 45 | 11 50 | 0 28 | 11 33 | 0 39 | 23 0 | 0 32 | 21 59 | 21 51 | 2 17 | 11 54 | 0 46 |
| S 23 | 12 44 | 20 8 | 1 24 | 4 3 | 2 17 | 23 34 | 1 36 | 17 39 | 0 14 | 8 1 | 1 27 | 14 9 | 1 45 | 11 51 | 0 28 | 11 33 | 0 39 | 23 0 | 0 32 | 21 59 | 21 52 | 2 20 | 11 56 | 0 46 |
| M24 | 13 4 | 17 19 | 2 30 | 4 49 | 2 12 | 23 46 | 1 38 | 17 52 | 0 14 | 8 2 | 1 27 | 14 9 | 1 45 | 11 52 | 0 28 | 11 32 | 0 39 | 23 0 | 0 32 | 21 59 | 21 52 | 2 22 | 11 57 | 0 46 |
| T 25 | 13 24 | 13 25 | 3 29 | 5 35 | 2 6 | 23 58 | 1 41 | 18 4 | 0 15 | 8 3 | 1 27 | 14 9 | 1 45 | 11 53 | 0 28 | 11 32 | 0 39 | 23 0 | 0 32 | 22 0 | 21 53 | 2 25 | 11 58 | 0 46 |
| W26 | 13 43 | 8 38 | 4 17 | 6 21 | 2 0 | 24 10 | 1 43 | 18 16 | 0 16 | 8 4 | 1 27 | 14 9 | 1 45 | 11 54 | 0 28 | 11 32 | 0 39 | 23 0 | 0 32 | 22 0 | 21 53 | 2 27 | 12 0 | 0 46 |
| T 27 | 14 2 | 3 13 | 4 49 | 7 9 | 1 54 | 24 21 | 1 46 | 18 27 | 0 16 | 8 4 | 1 27 | 14 9 | 1 45 | 11 56 | 0 28 | 11 31 | 0 39 | 23 0 | 0 32 | 22 1 | 21 54 | 2 30 | 12 1 | 0 46 |
| F 28 | 14 21 | 2s29 | 5 2 | 7 57 | 1 47 | 24 31 | 1 48 | 18 39 | 0 17 | 8 5 | 1 26 | 14 8 | 1 45 | 11 57 | 0 28 | 11 31 | 0 39 | 23 0 | 0 32 | 22 3 | 21 54 | 2 32 | 12 2 | 0 47 |
| S 29 | 14 39 | 8 5 | 4 53 | 8 46 | 1 39 | 24 41 | 1 51 | 18 50 | 0 17 | 8 6 | 1 26 | 14 8 | 1 45 | 11 58 | 0 28 | 11 30 | 0 39 | 23 0 | 0 33 | 22 4 | 21 55 | 2 35 | 12 3 | 0 47 |
| S 30 | 14n58 | 13s10 | 4n24 | 9n35 | 1s32 | 24n49 | 1n53 | 19n 2 | 0n18 | 8n 6 | 1n26 | 14n 8 | 1n45 | 11n59 | 0s28 | 11s30 | 0s39 | 23n 0 | 0n33 | 22n 6 | 21n55 | 2n37 | 12n 5 | 0s47 |

Julian Day Number = 2336219.5, Delta T = 21.31 sec
Ecliptic obliquity = 23°28'46, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°19'58, Lahiri = 19°26'58Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## MAY 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 39 1 | 11♉21'55 | 3♐36 | 0♉37 | 19♊20 | 24♉25 | 12°R45 | 27♌ 6 | 2♉45 | 1♓43 | 16♋33 | 19°R 8 | 20♋23 | 18♈55 | 3♉53 | M 1 |
| T 2 | 14 42 58 | 12°19'57 | 18°12 | 2°37 | 20°30 | 25° 8 | 12♍43 | 27° 6 | 2°49 | 1°44 | 16°33 | 19♋ 3 | 20°20 | 19° 2 | 3°57 | T 2 |
| W 3 | 14 46 54 | 13°17'57 | 2♑20 | 4°39 | 21°39 | 25°50 | 12°42 | 27° 7 | 2°52 | 1°45 | 16°34 | 18°59 | 20°17 | 19° 8 | 4° 1 | W 3 |
| T 4 | 14 50 51 | 14°15'56 | 15°58 | 6°42 | 22°49 | 26°32 | 12°41 | 27° 7 | 2°55 | 1°46 | 16°35 | 18°D58 | 20°14 | 19°15 | 4° 5 | T 4 |
| F 5 | 14 54 47 | 15°13'53 | 29° 9 | 8°47 | 23°59 | 27°14 | 12°41 | 27° 8 | 2°59 | 1°47 | 16°36 | 18°58 | 20°11 | 19°22 | 4° 8 | F 5 |
| S 6 | 14 58 44 | 16°11'49 | 11♒55 | 10°54 | 25° 8 | 27°56 | 12°40 | 27° 9 | 3° 2 | 1°48 | 16°37 | 18°R59 | 20° 8 | 19°29 | 4°12 | S 6 |
| S 7 | 15 2 40 | 17° 9'44 | 24°21 | 13° 1 | 26°17 | 28°38 | 12°40 | 27°10 | 3° 6 | 1°49 | 16°38 | 18°59 | 20° 4 | 19°35 | 4°16 | S 7 |
| M 8 | 15 6 37 | 18° 7'37 | 6♓31 | 15°10 | 27°26 | 29°20 | 12°40 | 27°11 | 3° 9 | 1°49 | 16°39 | 18°57 | 20° 1 | 19°42 | 4°20 | M 8 |
| T 9 | 15 10 33 | 19° 5'29 | 18°31 | 17°20 | 28°36 | 0♊ 2 | 12°D40 | 27°12 | 3°12 | 1°50 | 16°40 | 18°53 | 19°58 | 19°49 | 4°24 | T 9 |
| W10 | 15 14 30 | 20° 3'20 | 0♈24 | 19°30 | 29°45 | 0°44 | 12°40 | 27°13 | 3°16 | 1°51 | 16°41 | 18°47 | 19°55 | 19°55 | 4°28 | W10 |
| T 11 | 15 18 27 | 21° 1'10 | 12°15 | 21°41 | 0♋53 | 1°25 | 12°40 | 27°14 | 3°19 | 1°52 | 16°41 | 18°38 | 19°52 | 20° 2 | 4°32 | T 11 |
| F 12 | 15 22 23 | 21°58'58 | 24° 7 | 23°53 | 2° 2 | 2° 7 | 12°41 | 27°16 | 3°22 | 1°53 | 16°42 | 18°28 | 19°49 | 20° 9 | 4°36 | F 12 |
| S 13 | 15 26 20 | 22°56'45 | 6♉ 1 | 26° 4 | 3°11 | 2°49 | 12°41 | 27°17 | 3°26 | 1°53 | 16°43 | 18°18 | 19°45 | 20°16 | 4°39 | S 13 |
| S 14 | 15 30 16 | 23°54'31 | 18° 1 | 28°15 | 4°19 | 3°31 | 12°42 | 27°19 | 3°29 | 1°54 | 16°45 | 18° 7 | 19°42 | 20°22 | 4°43 | S 14 |
| M15 | 15 34 13 | 24°52'15 | 0♊ 6 | 0♊25 | 5°28 | 4°12 | 12°43 | 27°21 | 3°32 | 1°55 | 16°46 | 17°58 | 19°39 | 20°29 | 4°47 | M15 |
| T 16 | 15 38 9 | 25°49'58 | 12°19 | 2°35 | 6°36 | 4°54 | 12°45 | 27°23 | 3°35 | 1°55 | 16°47 | 17°51 | 19°36 | 20°36 | 4°51 | T 16 |
| W17 | 15 42 6 | 26°47'40 | 24°40 | 4°43 | 7°44 | 5°35 | 12°46 | 27°25 | 3°39 | 1°56 | 16°48 | 17°46 | 19°33 | 20°43 | 4°55 | W17 |
| T 18 | 15 46 2 | 27°45'21 | 7♋12 | 6°50 | 8°52 | 6°17 | 12°48 | 27°27 | 3°42 | 1°56 | 16°49 | 17°44 | 19°29 | 20°49 | 4°58 | T 18 |
| F 19 | 15 49 59 | 28°43'00 | 19°55 | 8°56 | 10° 0 | 6°58 | 12°49 | 27°29 | 3°45 | 1°57 | 16°50 | 17°D43 | 19°26 | 20°56 | 5° 2 | F 19 |
| S 20 | 15 53 56 | 29°40'37 | 2♌53 | 11° 0 | 11° 7 | 7°40 | 12°51 | 27°31 | 3°48 | 1°57 | 16°51 | 17°44 | 19°23 | 21° 3 | 5° 6 | S 20 |
| S 21 | 15 57 52 | 0♊38'13 | 16° 8 | 13° 1 | 12°15 | 8°21 | 12°53 | 27°33 | 3°52 | 1°58 | 16°52 | 17°45 | 19°20 | 21° 9 | 5°10 | S 21 |
| M22 | 16 1 49 | 1°35'47 | 29°42 | 15° 1 | 13°22 | 9° 2 | 12°56 | 27°36 | 3°55 | 1°58 | 16°53 | 17°R46 | 19°17 | 21°16 | 5°13 | M22 |
| T 23 | 16 5 45 | 2°33'20 | 13♍36 | 16°58 | 14°30 | 9°44 | 12°58 | 27°38 | 3°58 | 1°59 | 16°55 | 17°45 | 19°14 | 21°23 | 5°17 | T 23 |
| W24 | 16 9 42 | 3°30'52 | 27°52 | 18°53 | 15°37 | 10°25 | 13° 1 | 27°41 | 4° 1 | 1°59 | 16°56 | 17°43 | 19°10 | 21°30 | 5°21 | W24 |
| T 25 | 16 13 38 | 4°28'22 | 12♎26 | 20°45 | 16°43 | 11° 6 | 13° 4 | 27°44 | 4° 4 | 1°59 | 16°57 | 17°39 | 19° 7 | 21°36 | 5°24 | T 25 |
| F 26 | 16 17 35 | 5°25'50 | 27°14 | 22°34 | 17°50 | 11°47 | 13° 7 | 27°46 | 4° 7 | 1°59 | 16°58 | 17°34 | 19° 4 | 21°43 | 5°28 | F 26 |
| S 27 | 16 21 31 | 6°23'18 | 12♏10 | 24°21 | 18°57 | 12°28 | 13°10 | 27°49 | 4°10 | 2° 0 | 17° 0 | 17°27 | 19° 1 | 21°50 | 5°31 | S 27 |
| S 28 | 16 25 28 | 7°20'44 | 27° 5 | 26° 6 | 20° 3 | 13° 9 | 13°13 | 27°52 | 4°13 | 2° 0 | 17° 1 | 17°22 | 18°58 | 21°56 | 5°35 | S 28 |
| M29 | 16 29 25 | 8°18'10 | 11♐51 | 27°47 | 21° 9 | 13°50 | 13°17 | 27°55 | 4°16 | 2° 0 | 17° 2 | 17°17 | 18°55 | 22° 3 | 5°38 | M29 |
| T 30 | 16 33 21 | 9°15'34 | 26°20 | 29°26 | 22°15 | 14°31 | 13°20 | 27°59 | 4°19 | 2° 0 | 17° 3 | 17°14 | 18°51 | 22°10 | 5°42 | T 30 |
| W31 | 16 37 18 | 10♊12'58 | 10♑26 | 1♋ 2 | 23♋21 | 15♊12 | 13♍24 | 28♌ 2 | 4♉22 | 2♓ 0 | 17♋ 5 | 17♋12 | 18♋48 | 22♈17 | 5♉45 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 15n16 | 17s22 | 3n36 | 10n24 | 1s23 | 24n58 | 1n55 | 19n13 | 0n19 | 8n 6 | 1n26 | 14n 8 | 1n44 | 12n 0 | 0s28 | 11s30 | 0s39 | 23n 0 | 0n33 | 22n 7 | 21n56 | 2n40 | 12n 6 | 0s47 |
| T 2 | 15 34 | 20 22 | 2 36 | 11 14 | 1 15 | 25 5 | 1 57 | 19 23 | 0 19 | 8 7 | 1 26 | 14 8 | 1 44 | 12 1 | 0 28 | 11 29 | 0 39 | 23 0 | 0 33 | 22 7 | 21 56 | 2 42 | 12 7 | 0 47 |
| W 3 | 15 51 | 22 0 | 1 27 | 12 4 | 1 5 | 25 12 | 1 59 | 19 34 | 0 20 | 8 7 | 1 25 | 14 7 | 1 44 | 12 3 | 0 28 | 11 29 | 0 39 | 22 59 | 0 33 | 22 8 | 21 57 | 2 45 | 12 8 | 0 47 |
| T 4 | 16 9 | 22 15 | 0 16 | 12 54 | 0 56 | 25 18 | 2 1 | 19 45 | 0 20 | 8 7 | 1 25 | 14 7 | 1 44 | 12 4 | 0 28 | 11 29 | 0 39 | 22 59 | 0 33 | 22 8 | 21 57 | 2 47 | 12 10 | 0 47 |
| F 5 | 16 26 | 21 15 | 0s54 | 13 43 | 0 46 | 25 24 | 2 3 | 19 55 | 0 21 | 8 7 | 1 25 | 14 7 | 1 44 | 12 5 | 0 28 | 11 28 | 0 39 | 22 59 | 0 33 | 22 8 | 21 58 | 2 50 | 12 11 | 0 47 |
| S 6 | 16 43 | 19 9 | 1 59 | 14 33 | 0 36 | 25 28 | 2 5 | 20 5 | 0 22 | 8 7 | 1 25 | 14 6 | 1 44 | 12 6 | 0 28 | 11 28 | 0 39 | 22 59 | 0 33 | 22 8 | 21 58 | 2 52 | 12 12 | 0 47 |
| S 7 | 16 59 | 16 12 | 2 57 | 15 22 | 0 26 | 25 33 | 2 7 | 20 15 | 0 22 | 8 7 | 1 25 | 14 6 | 1 44 | 12 7 | 0 28 | 11 28 | 0 39 | 22 59 | 0 33 | 22 8 | 21 59 | 2 55 | 12 13 | 0 47 |
| M 8 | 17 15 | 12 37 | 3 45 | 16 10 | 0 16 | 25 36 | 2 9 | 20 25 | 0 23 | 8 7 | 1 24 | 14 6 | 1 44 | 12 8 | 0 28 | 11 28 | 0 40 | 22 59 | 0 33 | 22 8 | 21 59 | 2 57 | 12 15 | 0 47 |
| T 9 | 17 31 | 8 35 | 4 23 | 16 57 | 0 5 | 25 39 | 2 10 | 20 34 | 0 23 | 8 7 | 1 24 | 14 5 | 1 44 | 12 10 | 0 28 | 11 27 | 0 40 | 22 59 | 0 33 | 22 9 | 21 59 | 3 0 | 12 16 | 0 48 |
| W10 | 17 47 | 4 15 | 4 49 | 17 44 | 0n 5 | 25 41 | 2 12 | 20 44 | 0 24 | 8 7 | 1 24 | 14 5 | 1 43 | 12 11 | 0 28 | 11 27 | 0 40 | 22 59 | 0 33 | 22 10 | 22 0 | 3 2 | 12 17 | 0 48 |
| T 11 | 18 3 | 0n13 | 5 2 | 18 29 | 0 16 | 25 42 | 2 13 | 20 53 | 0 24 | 8 6 | 1 24 | 14 4 | 1 43 | 12 12 | 0 28 | 11 27 | 0 40 | 22 59 | 0 33 | 22 11 | 22 0 | 3 5 | 12 18 | 0 48 |
| F 12 | 18 18 | 4 40 | 5 3 | 19 12 | 0 26 | 25 43 | 2 15 | 21 2 | 0 25 | 8 6 | 1 23 | 14 3 | 1 43 | 12 13 | 0 28 | 11 27 | 0 40 | 22 59 | 0 33 | 22 12 | 22 1 | 3 7 | 12 19 | 0 48 |
| S 13 | 18 32 | 8 59 | 4 50 | 19 54 | 0 37 | 25 43 | 2 16 | 21 10 | 0 26 | 8 5 | 1 23 | 14 3 | 1 43 | 12 14 | 0 28 | 11 26 | 0 40 | 22 59 | 0 33 | 22 14 | 22 1 | 3 10 | 12 21 | 0 48 |
| S 14 | 18 47 | 12 59 | 4 24 | 20 34 | 0 47 | 25 42 | 2 17 | 21 19 | 0 26 | 8 5 | 1 23 | 14 2 | 1 43 | 12 15 | 0 28 | 11 26 | 0 40 | 22 59 | 0 33 | 22 15 | 22 2 | 3 12 | 12 22 | 0 48 |
| M15 | 19 1 | 16 31 | 3 47 | 21 12 | 0 56 | 25 40 | 2 19 | 21 27 | 0 27 | 8 4 | 1 23 | 14 1 | 1 43 | 12 16 | 0 28 | 11 26 | 0 40 | 22 59 | 0 33 | 22 16 | 22 2 | 3 15 | 12 23 | 0 48 |
| T 16 | 19 15 | 19 22 | 2 58 | 21 47 | 1 6 | 25 38 | 2 20 | 21 36 | 0 27 | 8 4 | 1 23 | 14 1 | 1 43 | 12 17 | 0 28 | 11 26 | 0 40 | 22 59 | 0 33 | 22 17 | 22 3 | 3 17 | 12 24 | 0 48 |
| W17 | 19 28 | 21 22 | 2 1 | 22 20 | 1 15 | 25 36 | 2 21 | 21 44 | 0 28 | 8 3 | 1 22 | 14 0 | 1 43 | 12 19 | 0 28 | 11 26 | 0 40 | 22 59 | 0 33 | 22 18 | 22 3 | 3 20 | 12 25 | 0 48 |
| T 18 | 19 42 | 22 21 | 0 56 | 22 51 | 1 23 | 25 32 | 2 21 | 21 51 | 0 28 | 8 2 | 1 22 | 13 59 | 1 42 | 12 20 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 18 | 22 4 | 3 22 | 12 27 | 0 48 |
| F 19 | 19 54 | 22 12 | 0n12 | 23 19 | 1 31 | 25 28 | 2 22 | 21 59 | 0 29 | 8 1 | 1 22 | 13 58 | 1 42 | 12 21 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 18 | 22 4 | 3 25 | 12 28 | 0 48 |
| S 20 | 20 7 | 20 52 | 1 21 | 23 45 | 1 38 | 25 23 | 2 23 | 22 6 | 0 29 | 8 0 | 1 22 | 13 57 | 1 42 | 12 22 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 18 | 22 5 | 3 27 | 12 29 | 0 49 |
| S 21 | 20 19 | 18 22 | 2 27 | 24 8 | 1 44 | 25 18 | 2 24 | 22 14 | 0 30 | 7 59 | 1 22 | 13 56 | 1 42 | 12 23 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 18 | 22 5 | 3 30 | 12 30 | 0 49 |
| M22 | 20 31 | 14 49 | 3 27 | 24 28 | 1 50 | 25 12 | 2 24 | 22 21 | 0 30 | 7 58 | 1 21 | 13 55 | 1 42 | 12 24 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 18 | 22 5 | 3 32 | 12 31 | 0 49 |
| T 23 | 20 42 | 10 24 | 4 16 | 24 45 | 1 55 | 25 5 | 2 24 | 22 27 | 0 31 | 7 57 | 1 21 | 13 54 | 1 42 | 12 25 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 18 | 22 6 | 3 35 | 12 32 | 0 49 |
| W24 | 20 54 | 5 18 | 4 51 | 25 0 | 2 0 | 24 58 | 2 25 | 22 34 | 0 31 | 7 56 | 1 21 | 13 53 | 1 42 | 12 26 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 18 | 22 6 | 3 37 | 12 33 | 0 49 |
| T 25 | 21 4 | 0s12 | 5 8 | 25 12 | 2 3 | 24 50 | 2 25 | 22 40 | 0 32 | 7 54 | 1 21 | 13 52 | 1 42 | 12 27 | 0 28 | 11 25 | 0 40 | 22 58 | 0 34 | 22 19 | 22 7 | 3 40 | 12 34 | 0 49 |
| F 26 | 21 15 | 5 46 | 5 5 | 25 22 | 2 6 | 24 41 | 2 25 | 22 47 | 0 33 | 7 53 | 1 20 | 13 51 | 1 42 | 12 28 | 0 28 | 11 24 | 0 40 | 22 58 | 0 34 | 22 19 | 22 7 | 3 42 | 12 35 | 0 49 |
| S 27 | 21 25 | 11 3 | 4 41 | 25 30 | 2 8 | 24 32 | 2 25 | 22 52 | 0 33 | 7 52 | 1 20 | 13 50 | 1 41 | 12 29 | 0 28 | 11 24 | 0 40 | 22 58 | 0 34 | 22 20 | 22 8 | 3 45 | 12 37 | 0 49 |
| S 28 | 21 34 | 15 40 | 3 58 | 25 35 | 2 9 | 24 22 | 2 25 | 22 58 | 0 34 | 7 50 | 1 20 | 13 49 | 1 41 | 12 30 | 0 28 | 11 24 | 0 40 | 22 57 | 0 34 | 22 21 | 22 8 | 3 47 | 12 38 | 0 49 |
| M29 | 21 44 | 19 16 | 3 0 | 25 37 | 2 10 | 24 11 | 2 24 | 23 4 | 0 34 | 7 49 | 1 20 | 13 48 | 1 41 | 12 31 | 0 28 | 11 24 | 0 40 | 22 57 | 0 34 | 22 22 | 22 9 | 3 50 | 12 39 | 0 50 |
| T 30 | 21 53 | 21 35 | 1 51 | 25 38 | 2 10 | 24 0 | 2 24 | 23 9 | 0 35 | 7 47 | 1 20 | 13 47 | 1 41 | 12 32 | 0 28 | 11 24 | 0 40 | 22 57 | 0 34 | 22 22 | 22 9 | 3 53 | 12 40 | 0 50 |
| W31 | 22n 1 | 22s27 | 0n37 | 25n37 | 2n 8 | 23n49 | 2n24 | 23n14 | 0n35 | 7n45 | 1n19 | 13n45 | 1n41 | 12n33 | 0s28 | 11s24 | 0s40 | 22n57 | 0n34 | 22n22 | 22n 9 | 3n55 | 12n41 | 0s50 |

Julian Day Number = 2336249.5, Delta T = 21.27 sec
Ecliptic obliquity = 23°28'46, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'02, Lahiri = 19°27'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## JUNE 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 41 14 | 11♊10'21 | 24♉ 6 | 2♋35 | 24♋27 | 15♊53 | 13♍28 | 28♌ 5 | 4♉25 | 2♓ 1 | 17♋ 6 | 17°D12 | 18♋45 | 22♈23 | 5♉49 | T 1 |
| F 2 | 16 45 11 | 12° 7'43 | 7♒20 | 4° 5 | 25°32 | 16°34 | 13°32 | 28° 9 | 4°28 | 2° 1 | 17° 7 | 17♋13 | 18°42 | 22°30 | 5°52 | F 2 |
| S 3 | 16 49 7 | 13° 5'05 | 20°11 | 5°32 | 26°37 | 17°15 | 13°37 | 28°12 | 4°31 | 2°R 1 | 17° 9 | 17°15 | 18°39 | 22°37 | 5°55 | S 3 |
| S 4 | 16 53 4 | 14° 2'26 | 2♓41 | 6°57 | 27°42 | 17°55 | 13°41 | 28°16 | 4°34 | 2° 1 | 17°10 | 17°16 | 18°35 | 22°44 | 5°59 | S 4 |
| M 5 | 16 57 0 | 14°59'46 | 14°54 | 8°18 | 28°47 | 18°36 | 13°46 | 28°20 | 4°37 | 2° 1 | 17°11 | 17°R17 | 18°32 | 22°50 | 6° 2 | M 5 |
| T 6 | 17 0 57 | 15°57'06 | 26°56 | 9°37 | 29°52 | 19°17 | 13°51 | 28°23 | 4°39 | 2° 0 | 17°13 | 17°16 | 18°29 | 22°57 | 6° 5 | T 6 |
| W 7 | 17 4 54 | 16°54'26 | 8♈51 | 10°52 | 0♌56 | 19°57 | 13°55 | 28°27 | 4°42 | 2° 0 | 17°14 | 17°14 | 18°26 | 23° 4 | 6° 9 | W 7 |
| T 8 | 17 8 50 | 17°51'45 | 20°43 | 12° 5 | 2° 0 | 20°38 | 14° 1 | 28°31 | 4°45 | 2° 0 | 17°16 | 17°11 | 18°23 | 23°10 | 6°12 | T 8 |
| F 9 | 17 12 47 | 18°49'03 | 2♉36 | 13°14 | 3° 4 | 21°18 | 14° 6 | 28°35 | 4°48 | 2° 0 | 17°17 | 17° 7 | 18°20 | 23°17 | 6°15 | F 9 |
| S 10 | 17 16 43 | 19°46'21 | 14°34 | 14°20 | 4° 8 | 21°59 | 14°11 | 28°40 | 4°50 | 2° 0 | 17°18 | 17° 2 | 18°16 | 23°24 | 6°18 | S 10 |
| S 11 | 17 20 40 | 20°43'39 | 26°39 | 15°23 | 5°11 | 22°39 | 14°17 | 28°44 | 4°53 | 2° 0 | 17°20 | 16°58 | 18°13 | 23°31 | 6°21 | S 11 |
| M12 | 17 24 36 | 21°40'57 | 8♊54 | 16°22 | 6°14 | 23°20 | 14°22 | 28°48 | 4°56 | 1°59 | 17°21 | 16°54 | 18°10 | 23°37 | 6°24 | M12 |
| T 13 | 17 28 33 | 22°38'13 | 21°20 | 17°19 | 7°17 | 24° 0 | 14°28 | 28°52 | 4°58 | 1°59 | 17°23 | 16°51 | 18° 7 | 23°44 | 6°27 | T 13 |
| W14 | 17 32 29 | 23°35'30 | 3♋58 | 18°11 | 8°20 | 24°41 | 14°34 | 28°57 | 5° 1 | 1°59 | 17°24 | 16°49 | 18° 4 | 23°51 | 6°30 | W14 |
| T 15 | 17 36 26 | 24°32'46 | 16°48 | 19° 0 | 9°22 | 25°21 | 14°40 | 29° 1 | 5° 3 | 1°58 | 17°26 | 16°D48 | 18° 1 | 23°58 | 6°33 | T 15 |
| F 16 | 17 40 23 | 25°30'01 | 29°51 | 19°45 | 10°24 | 26° 1 | 14°47 | 29° 6 | 5° 6 | 1°58 | 17°27 | 16°49 | 17°57 | 24° 4 | 6°36 | F 16 |
| S 17 | 17 44 19 | 26°27'16 | 13♌ 7 | 20°27 | 11°26 | 26°42 | 14°53 | 29°11 | 5° 8 | 1°58 | 17°29 | 16°50 | 17°54 | 24°11 | 6°39 | S 17 |
| S 18 | 17 48 16 | 27°24'30 | 26°36 | 21° 4 | 12°27 | 27°22 | 14°59 | 29°16 | 5°11 | 1°57 | 17°30 | 16°51 | 17°51 | 24°18 | 6°42 | S 18 |
| M19 | 17 52 12 | 28°21'44 | 10♍20 | 21°37 | 13°28 | 28° 2 | 15° 6 | 29°20 | 5°13 | 1°57 | 17°32 | 16°53 | 17°48 | 24°24 | 6°45 | M19 |
| T 20 | 17 56 9 | 29°18'56 | 24°17 | 22° 7 | 14°29 | 28°42 | 15°13 | 29°25 | 5°15 | 1°56 | 17°33 | 16°R53 | 17°45 | 24°31 | 6°48 | T 20 |
| W21 | 18 0 5 | 0♋16'09 | 8♎26 | 22°31 | 15°30 | 29°22 | 15°20 | 29°30 | 5°18 | 1°56 | 17°35 | 16°53 | 17°41 | 24°38 | 6°50 | W21 |
| T 22 | 18 4 2 | 1°13'20 | 22°46 | 22°52 | 16°30 | 0♋ 2 | 15°27 | 29°35 | 5°20 | 1°55 | 17°36 | 16°52 | 17°38 | 24°45 | 6°53 | T 22 |
| F 23 | 18 7 59 | 2°10'32 | 7♏13 | 23° 8 | 17°30 | 0°42 | 15°34 | 29°41 | 5°22 | 1°54 | 17°38 | 16°51 | 17°35 | 24°51 | 6°56 | F 23 |
| S 24 | 18 11 55 | 3° 7'42 | 21°44 | 23°20 | 18°29 | 1°22 | 15°41 | 29°46 | 5°24 | 1°54 | 17°39 | 16°49 | 17°32 | 24°58 | 6°58 | S 24 |
| S 25 | 18 15 52 | 4° 4'53 | 6♐13 | 23°26 | 19°28 | 2° 2 | 15°49 | 29°51 | 5°27 | 1°53 | 17°41 | 16°48 | 17°29 | 25° 5 | 7° 1 | S 25 |
| M26 | 18 19 48 | 5° 2'03 | 20°35 | 23°R29 | 20°27 | 2°42 | 15°56 | 29°56 | 5°29 | 1°52 | 17°43 | 16°46 | 17°26 | 25°11 | 7° 3 | M26 |
| T 27 | 18 23 45 | 5°59'13 | 4♑43 | 23°26 | 21°25 | 3°22 | 16° 4 | 0♍ 2 | 5°31 | 1°52 | 17°44 | 16°46 | 17°22 | 25°18 | 7° 6 | T 27 |
| W28 | 18 27 41 | 6°56'24 | 18°35 | 23°19 | 22°23 | 4° 2 | 16°12 | 0° 7 | 5°33 | 1°51 | 17°46 | 16°D46 | 17°19 | 25°25 | 7° 8 | W28 |
| T 29 | 18 31 38 | 7°53'34 | 2♒ 7 | 23° 8 | 23°20 | 4°42 | 16°20 | 0°13 | 5°35 | 1°50 | 17°47 | 16°46 | 17°16 | 25°32 | 7°11 | T 29 |
| F 30 | 18 35 34 | 8♋50'44 | 15♒18 | 22♋52 | 24♌17 | 5♋21 | 16♍28 | 0♍18 | 5♉37 | 1♓49 | 17♋49 | 16♋46 | 17♋13 | 25♈38 | 7♉13 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 9 | 21s57 | 0s38 | 25n34 | 2n 7 | 23n37 | 2n23 | 23n19 | 0n36 | 7n44 | 1n19 | 13n44 | 1n41 | 12n34 | 0s28 | 11s24 | 0s40 | 22n57 | 0n34 | 22n22 | 22n10 | 3n58 | 12n42 | 0s50 |
| F 2 | 22 17 | 20 12 | 1 48 | 25 29 | 2 4 | 23 24 | 2 22 | 23 24 | 0 36 | 7 42 | 1 19 | 13 43 | 1 41 | 12 35 | 0 28 | 11 24 | 0 40 | 22 57 | 0 34 | 22 22 | 22 10 | 4 0 | 12 43 | 0 50 |
| S 3 | 22 24 | 17 28 | 2 50 | 25 22 | 2 1 | 23 11 | 2 21 | 23 28 | 0 37 | 7 40 | 1 19 | 13 42 | 1 41 | 12 36 | 0 28 | 11 24 | 0 40 | 22 57 | 0 34 | 22 22 | 22 11 | 4 3 | 12 44 | 0 50 |
| S 4 | 22 31 | 14 0 | 3 43 | 25 14 | 1 57 | 22 57 | 2 20 | 23 33 | 0 37 | 7 38 | 1 19 | 13 40 | 1 41 | 12 37 | 0 28 | 11 24 | 0 40 | 22 57 | 0 34 | 22 22 | 22 11 | 4 5 | 12 45 | 0 50 |
| M 5 | 22 38 | 10 1 | 4 24 | 25 5 | 1 52 | 22 42 | 2 19 | 23 37 | 0 38 | 7 36 | 1 18 | 13 39 | 1 41 | 12 38 | 0 28 | 11 24 | 0 40 | 22 57 | 0 34 | 22 22 | 22 12 | 4 8 | 12 46 | 0 50 |
| T 6 | 22 44 | 5 42 | 4 53 | 24 54 | 1 46 | 22 28 | 2 18 | 23 41 | 0 38 | 7 34 | 1 18 | 13 37 | 1 40 | 12 39 | 0 28 | 11 24 | 0 40 | 22 56 | 0 35 | 22 22 | 22 12 | 4 10 | 12 47 | 0 50 |
| W 7 | 22 50 | 1 13 | 5 9 | 24 41 | 1 40 | 22 12 | 2 17 | 23 44 | 0 39 | 7 32 | 1 18 | 13 36 | 1 40 | 12 40 | 0 28 | 11 25 | 0 41 | 22 56 | 0 35 | 22 22 | 22 13 | 4 13 | 12 48 | 0 51 |
| T 8 | 22 55 | 3n17 | 5 12 | 24 28 | 1 33 | 21 56 | 2 15 | 23 48 | 0 39 | 7 30 | 1 18 | 13 34 | 1 40 | 12 41 | 0 28 | 11 25 | 0 41 | 22 56 | 0 35 | 22 22 | 22 13 | 4 15 | 12 49 | 0 51 |
| F 9 | 23 0 | 7 41 | 5 1 | 24 14 | 1 25 | 21 40 | 2 13 | 23 51 | 0 39 | 7 28 | 1 18 | 13 33 | 1 40 | 12 42 | 0 28 | 11 25 | 0 41 | 22 56 | 0 35 | 22 23 | 22 13 | 4 18 | 12 50 | 0 51 |
| S 10 | 23 5 | 11 49 | 4 37 | 23 59 | 1 17 | 21 23 | 2 12 | 23 54 | 0 40 | 7 25 | 1 17 | 13 31 | 1 40 | 12 43 | 0 28 | 11 25 | 0 41 | 22 56 | 0 35 | 22 24 | 22 14 | 4 20 | 12 51 | 0 51 |
| S 11 | 23 9 | 15 32 | 4 1 | 23 43 | 1 8 | 21 6 | 2 10 | 23 57 | 0 40 | 7 23 | 1 17 | 13 30 | 1 40 | 12 43 | 0 28 | 11 25 | 0 41 | 22 56 | 0 35 | 22 24 | 22 14 | 4 23 | 12 52 | 0 51 |
| M12 | 23 13 | 18 38 | 3 13 | 23 26 | 0 58 | 20 48 | 2 8 | 24 0 | 0 41 | 7 21 | 1 17 | 13 28 | 1 40 | 12 44 | 0 28 | 11 25 | 0 41 | 22 56 | 0 35 | 22 25 | 22 15 | 4 25 | 12 52 | 0 51 |
| T 13 | 23 16 | 20 57 | 2 15 | 23 8 | 0 47 | 20 30 | 2 5 | 24 2 | 0 41 | 7 18 | 1 17 | 13 27 | 1 40 | 12 45 | 0 28 | 11 25 | 0 41 | 22 56 | 0 35 | 22 25 | 22 15 | 4 28 | 12 53 | 0 51 |
| W14 | 23 19 | 22 15 | 1 10 | 22 51 | 0 36 | 20 12 | 2 3 | 24 4 | 0 42 | 7 16 | 1 17 | 13 25 | 1 40 | 12 46 | 0 29 | 11 25 | 0 41 | 22 55 | 0 35 | 22 25 | 22 16 | 4 30 | 12 54 | 0 51 |
| T 15 | 23 22 | 22 25 | 0 0 | 22 32 | 0 25 | 19 53 | 2 1 | 24 6 | 0 42 | 7 13 | 1 16 | 13 23 | 1 40 | 12 47 | 0 29 | 11 25 | 0 41 | 22 55 | 0 35 | 22 25 | 22 16 | 4 33 | 12 55 | 0 51 |
| F 16 | 23 24 | 21 23 | 1n11 | 22 14 | 0 13 | 19 33 | 1 58 | 24 8 | 0 43 | 7 11 | 1 16 | 13 22 | 1 40 | 12 48 | 0 29 | 11 26 | 0 41 | 22 55 | 0 35 | 22 25 | 22 16 | 4 36 | 12 56 | 0 52 |
| S 17 | 23 26 | 19 9 | 2 20 | 21 55 | 0s 0 | 19 13 | 1 55 | 24 9 | 0 43 | 7 8 | 1 16 | 13 20 | 1 39 | 12 48 | 0 29 | 11 26 | 0 41 | 22 55 | 0 35 | 22 25 | 22 17 | 4 38 | 12 57 | 0 52 |
| S 18 | 23 27 | 15 50 | 3 22 | 21 36 | 0 14 | 18 53 | 1 52 | 24 11 | 0 44 | 7 5 | 1 16 | 13 18 | 1 39 | 12 49 | 0 29 | 11 26 | 0 41 | 22 55 | 0 35 | 22 25 | 22 17 | 4 41 | 12 58 | 0 52 |
| M19 | 23 28 | 11 37 | 4 14 | 21 17 | 0 27 | 18 33 | 1 49 | 24 12 | 0 44 | 7 2 | 1 16 | 13 16 | 1 39 | 12 50 | 0 29 | 11 26 | 0 41 | 22 55 | 0 35 | 22 25 | 22 18 | 4 43 | 12 58 | 0 52 |
| T 20 | 23 29 | 6 44 | 4 51 | 20 59 | 0 42 | 18 12 | 1 46 | 24 13 | 0 45 | 7 0 | 1 15 | 13 14 | 1 39 | 12 51 | 0 29 | 11 26 | 0 41 | 22 55 | 0 35 | 22 25 | 22 18 | 4 46 | 12 59 | 0 52 |
| W21 | 23 29 | 1 26 | 5 12 | 20 40 | 0 56 | 17 51 | 1 43 | 24 14 | 0 45 | 6 57 | 1 15 | 13 13 | 1 39 | 12 52 | 0 29 | 11 27 | 0 41 | 22 54 | 0 35 | 22 25 | 22 18 | 4 48 | 13 0 | 0 52 |
| T 22 | 23 28 | 4s 1 | 5 14 | 20 22 | 1 11 | 17 30 | 1 39 | 24 14 | 0 45 | 6 54 | 1 15 | 13 11 | 1 39 | 12 52 | 0 29 | 11 27 | 0 41 | 22 54 | 0 35 | 22 25 | 22 19 | 4 51 | 13 1 | 0 52 |
| F 23 | 23 28 | 9 17 | 4 56 | 20 4 | 1 27 | 17 8 | 1 35 | 24 15 | 0 46 | 6 51 | 1 15 | 13 9 | 1 39 | 12 53 | 0 29 | 11 27 | 0 41 | 22 54 | 0 36 | 22 25 | 22 19 | 4 53 | 13 1 | 0 52 |
| S 24 | 23 27 | 14 3 | 4 19 | 19 47 | 1 42 | 16 46 | 1 32 | 24 15 | 0 46 | 6 48 | 1 15 | 13 7 | 1 39 | 12 54 | 0 29 | 11 27 | 0 41 | 22 54 | 0 36 | 22 25 | 22 20 | 4 56 | 13 2 | 0 53 |
| S 25 | 23 25 | 18 0 | 3 26 | 19 30 | 1 58 | 16 24 | 1 28 | 24 15 | 0 47 | 6 45 | 1 15 | 13 5 | 1 39 | 12 55 | 0 29 | 11 28 | 0 41 | 22 54 | 0 36 | 22 25 | 22 20 | 4 58 | 13 3 | 0 53 |
| M26 | 23 23 | 20 49 | 2 20 | 19 14 | 2 14 | 16 1 | 1 23 | 24 14 | 0 47 | 6 42 | 1 14 | 13 3 | 1 39 | 12 55 | 0 29 | 11 28 | 0 41 | 22 54 | 0 36 | 22 25 | 22 21 | 5 1 | 13 4 | 0 53 |
| T 27 | 23 21 | 22 18 | 1 6 | 18 59 | 2 29 | 15 38 | 1 19 | 24 14 | 0 48 | 6 39 | 1 14 | 13 1 | 1 39 | 12 56 | 0 29 | 11 28 | 0 41 | 22 54 | 0 36 | 22 26 | 22 21 | 5 3 | 13 4 | 0 53 |
| W28 | 23 18 | 22 21 | 0s10 | 18 45 | 2 45 | 15 15 | 1 15 | 24 13 | 0 48 | 6 35 | 1 14 | 12 59 | 1 39 | 12 57 | 0 29 | 11 29 | 0 41 | 22 53 | 0 36 | 22 26 | 22 21 | 5 6 | 13 5 | 0 53 |
| T 29 | 23 15 | 21 5 | 1 24 | 18 32 | 3 0 | 14 52 | 1 10 | 24 12 | 0 48 | 6 32 | 1 14 | 12 57 | 1 39 | 12 57 | 0 29 | 11 29 | 0 41 | 22 53 | 0 36 | 22 26 | 22 22 | 5 8 | 13 6 | 0 53 |
| F 30 | 23n11 | 18s41 | 2s32 | 18n20 | 3s15 | 14n28 | 1n 5 | 24n11 | 0n49 | 6n29 | 1n14 | 12n55 | 1n38 | 12n58 | 0s29 | 11s29 | 0s41 | 22n53 | 0n36 | 22n25 | 22n22 | 5n11 | 13n 6 | 0s53 |

Julian Day Number = 2336280.5, Delta T = 21.22 sec
Ecliptic obliquity = 23°28'46, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'06, Lahiri = 19°27'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## JULY 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 39 31 | 9♋47'54 | 28♒ 8 | 22°R32 | 25♌14 | 6♋ 1 | 16♍36 | 0♍24 | 5♉39 | 1°R49 | 17♋50 | 16♋47 | 17♋10 | 25♈45 | 7♉15 | S 1 |
| S 2 | 18 43 28 | 10°45'05 | 10♓39 | 22♋ 8 | 26°10 | 6°41 | 16°44 | 0°30 | 5°41 | 1♓48 | 17°52 | 16°48 | 17° 7 | 25°52 | 7°18 | S 2 |
| M 3 | 18 47 24 | 11°42'16 | 22°55 | 21°40 | 27° 5 | 7°20 | 16°53 | 0°36 | 5°43 | 1°47 | 17°54 | 16°48 | 17° 3 | 25°59 | 7°20 | M 3 |
| T 4 | 18 51 21 | 12°39'27 | 4♈59 | 21° 9 | 28° 0 | 8° 0 | 17° 1 | 0°41 | 5°44 | 1°46 | 17°55 | 16°48 | 17° 0 | 26° 5 | 7°22 | T 4 |
| W 5 | 18 55 17 | 13°36'39 | 16°55 | 20°35 | 28°55 | 8°40 | 17°10 | 0°47 | 5°46 | 1°45 | 17°57 | 16°R49 | 16°57 | 26°12 | 7°24 | W 5 |
| T 6 | 18 59 14 | 14°33'51 | 28°48 | 19°59 | 29°49 | 9°19 | 17°18 | 0°53 | 5°48 | 1°44 | 17°58 | 16°48 | 16°54 | 26°19 | 7°26 | T 6 |
| F 7 | 19 3 10 | 15°31'04 | 10♉43 | 19°21 | 0♍42 | 9°59 | 17°27 | 0°59 | 5°50 | 1°43 | 18° 0 | 16°48 | 16°51 | 26°25 | 7°28 | F 7 |
| S 8 | 19 7 7 | 16°28'17 | 22°43 | 18°42 | 1°35 | 10°38 | 17°36 | 1° 5 | 5°51 | 1°42 | 18° 2 | 16°D48 | 16°47 | 26°32 | 7°30 | S 8 |
| S 9 | 19 11 3 | 17°25'31 | 4♊54 | 18° 3 | 2°27 | 11°18 | 17°45 | 1°12 | 5°53 | 1°41 | 18° 3 | 16°48 | 16°44 | 26°39 | 7°32 | S 9 |
| M10 | 19 15 0 | 18°22'45 | 17°16 | 17°24 | 3°19 | 11°57 | 17°54 | 1°18 | 5°54 | 1°40 | 18° 5 | 16°48 | 16°41 | 26°46 | 7°34 | M10 |
| T 11 | 19 18 57 | 19°20'00 | 29°54 | 16°45 | 4°10 | 12°37 | 18° 4 | 1°24 | 5°56 | 1°39 | 18° 6 | 16°49 | 16°38 | 26°52 | 7°36 | T 11 |
| W12 | 19 22 53 | 20°17'16 | 12♋49 | 16° 9 | 5° 0 | 13°16 | 18°13 | 1°30 | 5°57 | 1°38 | 18° 8 | 16°R49 | 16°35 | 26°59 | 7°37 | W12 |
| T 13 | 19 26 50 | 21°14'32 | 26° 0 | 15°34 | 5°50 | 13°55 | 18°22 | 1°37 | 5°59 | 1°37 | 18°10 | 16°49 | 16°32 | 27° 6 | 7°39 | T 13 |
| F 14 | 19 30 46 | 22°11'48 | 9♌27 | 15° 2 | 6°39 | 14°35 | 18°32 | 1°43 | 6° 0 | 1°35 | 18°11 | 16°48 | 16°28 | 27°12 | 7°41 | F 14 |
| S 15 | 19 34 43 | 23° 9'05 | 23° 8 | 14°34 | 7°27 | 15°14 | 18°42 | 1°50 | 6° 1 | 1°34 | 18°13 | 16°48 | 16°25 | 27°19 | 7°42 | S 15 |
| S 16 | 19 38 39 | 24° 6'22 | 7♍ 2 | 14°10 | 8°15 | 15°53 | 18°51 | 1°56 | 6° 3 | 1°33 | 18°14 | 16°47 | 16°22 | 27°26 | 7°44 | S 16 |
| M17 | 19 42 36 | 25° 3'39 | 21° 5 | 13°51 | 9° 1 | 16°32 | 19° 1 | 2° 3 | 6° 4 | 1°32 | 18°16 | 16°46 | 16°19 | 27°33 | 7°45 | M17 |
| T 18 | 19 46 32 | 26° 0'57 | 5♎15 | 13°36 | 9°47 | 17°12 | 19°11 | 2° 9 | 6° 5 | 1°30 | 18°18 | 16°45 | 16°16 | 27°39 | 7°47 | T 18 |
| W19 | 19 50 29 | 26°58'15 | 19°28 | 13°26 | 10°32 | 17°51 | 19°21 | 2°16 | 6° 6 | 1°29 | 18°19 | 16°45 | 16°13 | 27°46 | 7°48 | W19 |
| T 20 | 19 54 26 | 27°55'33 | 3♏43 | 13°D22 | 11°16 | 18°30 | 19°31 | 2°22 | 6° 7 | 1°28 | 18°21 | 16°D45 | 16° 9 | 27°53 | 7°50 | T 20 |
| F 21 | 19 58 22 | 28°52'52 | 17°56 | 13°24 | 11°59 | 19° 9 | 19°41 | 2°29 | 6° 8 | 1°27 | 18°22 | 16°45 | 16° 6 | 28° 0 | 7°51 | F 21 |
| S 22 | 20 2 19 | 29°50'11 | 2♐ 5 | 13°32 | 12°42 | 19°48 | 19°51 | 2°36 | 6° 9 | 1°25 | 18°24 | 16°46 | 16° 3 | 28° 6 | 7°52 | S 22 |
| S 23 | 20 6 15 | 0♌47'31 | 16° 7 | 13°45 | 13°23 | 20°27 | 20° 2 | 2°43 | 6°10 | 1°24 | 18°25 | 16°47 | 16° 0 | 28°13 | 7°53 | S 23 |
| M24 | 20 10 12 | 1°44'51 | 0♑ 1 | 14° 5 | 14° 3 | 21° 6 | 20°12 | 2°50 | 6°11 | 1°23 | 18°27 | 16°48 | 15°57 | 28°20 | 7°54 | M24 |
| T 25 | 20 14 8 | 2°42'12 | 13°43 | 14°31 | 14°42 | 21°45 | 20°23 | 2°56 | 6°12 | 1°21 | 18°29 | 16°R49 | 15°53 | 28°26 | 7°55 | T 25 |
| W26 | 20 18 5 | 3°39'34 | 27°13 | 15° 3 | 15°20 | 22°24 | 20°33 | 3° 3 | 6°13 | 1°20 | 18°30 | 16°48 | 15°50 | 28°33 | 7°56 | W26 |
| T 27 | 20 22 1 | 4°36'57 | 10♒28 | 15°42 | 15°56 | 23° 3 | 20°44 | 3°10 | 6°14 | 1°18 | 18°32 | 16°47 | 15°47 | 28°40 | 7°57 | T 27 |
| F 28 | 20 25 58 | 5°34'20 | 23°26 | 16°27 | 16°32 | 23°42 | 20°55 | 3°17 | 6°14 | 1°17 | 18°33 | 16°45 | 15°44 | 28°47 | 7°58 | F 28 |
| S 29 | 20 29 55 | 6°31'45 | 6♓ 9 | 17°17 | 17° 6 | 24°21 | 21° 5 | 3°24 | 6°15 | 1°16 | 18°35 | 16°43 | 15°41 | 28°53 | 7°59 | S 29 |
| S 30 | 20 33 51 | 7°29'10 | 18°37 | 18°14 | 17°39 | 25° 0 | 21°16 | 3°31 | 6°16 | 1°14 | 18°36 | 16°40 | 15°38 | 29° 0 | 8° 0 | S 30 |
| M31 | 20 37 48 | 8♌26'37 | 0♈51 | 19♋16 | 18♍11 | 25♋38 | 21♍27 | 3♍38 | 6♉16 | 1♓13 | 18♋38 | 16♋36 | 15♋34 | 29♈ 7 | 8♉ 1 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 23n 7 | 15s25 | 3s30 | 18n 9 | 3s29 | 14n 5 | 1n 0 | 24n10 | 0n49 | 6n26 | 1n14 | 12n53 | 1n38 | 12n58 | 0s29 | 11s29 | 0s41 | 22n53 | 0n36 | 22n25 | 22n23 | 5n14 | 13n 7 | 0s53 | S 1 |
| S 2 | 23 3 | 11 32 | 4 16 | 17 59 | 3 43 | 13 41 | 0 55 | 24 8 | 0 50 | 6 22 | 1 13 | 12 51 | 1 38 | 12 59 | 0 29 | 11 30 | 0 41 | 22 53 | 0 36 | 22 25 | 22 23 | 5 16 | 13 7 | 0 54 | S 2 |
| M 3 | 22 58 | 7 15 | 4 50 | 17 51 | 3 56 | 13 17 | 0 50 | 24 7 | 0 50 | 6 19 | 1 13 | 12 49 | 1 38 | 13 0 | 0 29 | 11 30 | 0 41 | 22 53 | 0 36 | 22 25 | 22 23 | 5 19 | 13 8 | 0 54 | M 3 |
| T 4 | 22 53 | 2 46 | 5 10 | 17 44 | 4 8 | 12 53 | 0 44 | 24 5 | 0 50 | 6 15 | 1 13 | 12 47 | 1 38 | 13 0 | 0 29 | 11 31 | 0 41 | 22 52 | 0 36 | 22 25 | 22 24 | 5 21 | 13 9 | 0 54 | T 4 |
| W 5 | 22 47 | 1n47 | 5 17 | 17 38 | 4 19 | 12 29 | 0 39 | 24 3 | 0 51 | 6 12 | 1 13 | 12 44 | 1 38 | 13 1 | 0 29 | 11 31 | 0 41 | 22 52 | 0 36 | 22 25 | 22 24 | 5 24 | 13 9 | 0 54 | W 5 |
| T 6 | 22 41 | 6 14 | 5 10 | 17 34 | 4 28 | 12 4 | 0 33 | 24 0 | 0 51 | 6 8 | 1 13 | 12 42 | 1 38 | 13 1 | 0 29 | 11 31 | 0 41 | 22 52 | 0 36 | 22 25 | 22 25 | 5 26 | 13 10 | 0 54 | T 6 |
| F 7 | 22 35 | 10 28 | 4 50 | 17 31 | 4 36 | 11 40 | 0 27 | 23 58 | 0 52 | 6 5 | 1 13 | 12 40 | 1 38 | 13 2 | 0 29 | 11 32 | 0 41 | 22 52 | 0 36 | 22 25 | 22 25 | 5 29 | 13 10 | 0 54 | F 7 |
| S 8 | 22 28 | 14 20 | 4 17 | 17 30 | 4 43 | 11 15 | 0 21 | 23 55 | 0 52 | 6 1 | 1 12 | 12 38 | 1 38 | 13 2 | 0 29 | 11 32 | 0 41 | 22 52 | 0 36 | 22 25 | 22 25 | 5 31 | 13 11 | 0 54 | S 8 |
| S 9 | 22 21 | 17 40 | 3 32 | 17 30 | 4 48 | 10 51 | 0 15 | 23 52 | 0 52 | 5 57 | 1 12 | 12 36 | 1 38 | 13 3 | 0 29 | 11 32 | 0 41 | 22 52 | 0 36 | 22 25 | 22 26 | 5 34 | 13 11 | 0 55 | S 9 |
| M10 | 22 13 | 20 16 | 2 37 | 17 31 | 4 52 | 10 26 | 0 8 | 23 49 | 0 53 | 5 54 | 1 12 | 12 33 | 1 38 | 13 4 | 0 29 | 11 33 | 0 42 | 22 52 | 0 37 | 22 25 | 22 26 | 5 36 | 13 12 | 0 55 | M10 |
| T 11 | 22 5 | 21 56 | 1 32 | 17 34 | 4 54 | 10 1 | 0 1 | 23 46 | 0 53 | 5 50 | 1 12 | 12 31 | 1 38 | 13 4 | 0 29 | 11 33 | 0 42 | 22 51 | 0 37 | 22 25 | 22 27 | 5 39 | 13 12 | 0 55 | T 11 |
| W12 | 21 57 | 22 30 | 0 22 | 17 38 | 4 54 | 9 36 | 0s 6 | 23 42 | 0 54 | 5 46 | 1 12 | 12 29 | 1 38 | 13 4 | 0 29 | 11 34 | 0 42 | 22 51 | 0 37 | 22 25 | 22 27 | 5 41 | 13 13 | 0 55 | W12 |
| T 13 | 21 48 | 21 49 | 0n51 | 17 44 | 4 52 | 9 12 | 0 13 | 23 39 | 0 54 | 5 42 | 1 12 | 12 26 | 1 38 | 13 5 | 0 29 | 11 34 | 0 42 | 22 51 | 0 37 | 22 25 | 22 27 | 5 44 | 13 13 | 0 55 | T 13 |
| F 14 | 21 39 | 19 53 | 2 2 | 17 50 | 4 49 | 8 47 | 0 20 | 23 35 | 0 54 | 5 38 | 1 12 | 12 24 | 1 38 | 13 5 | 0 29 | 11 35 | 0 42 | 22 51 | 0 37 | 22 25 | 22 28 | 5 47 | 13 13 | 0 55 | F 14 |
| S 15 | 21 29 | 16 47 | 3 8 | 17 58 | 4 45 | 8 22 | 0 27 | 23 31 | 0 55 | 5 35 | 1 11 | 12 22 | 1 38 | 13 6 | 0 29 | 11 35 | 0 42 | 22 51 | 0 37 | 22 25 | 22 28 | 5 49 | 13 14 | 0 55 | S 15 |
| S 16 | 21 20 | 12 43 | 4 4 | 18 7 | 4 38 | 7 57 | 0 35 | 23 27 | 0 55 | 5 31 | 1 11 | 12 19 | 1 38 | 13 6 | 0 29 | 11 35 | 0 42 | 22 51 | 0 37 | 22 25 | 22 28 | 5 52 | 13 14 | 0 55 | S 16 |
| M17 | 21 9 | 7 54 | 4 45 | 18 16 | 4 31 | 7 33 | 0 43 | 23 22 | 0 56 | 5 27 | 1 11 | 12 17 | 1 38 | 13 7 | 0 29 | 11 36 | 0 42 | 22 51 | 0 37 | 22 26 | 22 29 | 5 54 | 13 15 | 0 56 | M17 |
| T 18 | 20 59 | 2 39 | 5 10 | 18 27 | 4 22 | 7 8 | 0 51 | 23 18 | 0 56 | 5 23 | 1 11 | 12 15 | 1 38 | 13 7 | 0 29 | 11 36 | 0 42 | 22 50 | 0 37 | 22 26 | 22 29 | 5 57 | 13 15 | 0 56 | T 18 |
| W19 | 20 48 | 2s45 | 5 16 | 18 38 | 4 11 | 6 43 | 0 59 | 23 13 | 0 56 | 5 19 | 1 11 | 12 12 | 1 38 | 13 7 | 0 29 | 11 37 | 0 42 | 22 50 | 0 37 | 22 26 | 22 30 | 5 59 | 13 15 | 0 56 | W19 |
| T 20 | 20 37 | 8 2 | 5 3 | 18 49 | 4 0 | 6 19 | 1 7 | 23 8 | 0 57 | 5 14 | 1 11 | 12 10 | 1 38 | 13 8 | 0 29 | 11 37 | 0 42 | 22 50 | 0 37 | 22 26 | 22 30 | 6 2 | 13 16 | 0 56 | T 20 |
| F 21 | 20 25 | 12 52 | 4 31 | 19 1 | 3 48 | 5 55 | 1 16 | 23 3 | 0 57 | 5 10 | 1 11 | 12 7 | 1 38 | 13 8 | 0 29 | 11 38 | 0 42 | 22 50 | 0 37 | 22 26 | 22 30 | 6 4 | 13 16 | 0 56 | F 21 |
| S 22 | 20 13 | 16 58 | 3 43 | 19 14 | 3 35 | 5 31 | 1 24 | 22 58 | 0 57 | 5 6 | 1 10 | 12 5 | 1 37 | 13 8 | 0 29 | 11 38 | 0 42 | 22 50 | 0 37 | 22 26 | 22 31 | 6 7 | 13 16 | 0 56 | S 22 |
| S 23 | 20 1 | 20 5 | 2 42 | 19 26 | 3 21 | 5 7 | 1 33 | 22 52 | 0 58 | 5 2 | 1 10 | 12 2 | 1 37 | 13 9 | 0 29 | 11 39 | 0 42 | 22 50 | 0 37 | 22 25 | 22 31 | 6 9 | 13 16 | 0 56 | S 23 |
| M24 | 19 48 | 21 57 | 1 31 | 19 38 | 3 7 | 4 43 | 1 42 | 22 47 | 0 58 | 4 58 | 1 10 | 12 0 | 1 37 | 13 9 | 0 29 | 11 39 | 0 42 | 22 49 | 0 37 | 22 25 | 22 32 | 6 12 | 13 17 | 0 57 | M24 |
| T 25 | 19 35 | 22 29 | 0 17 | 19 50 | 2 52 | 4 19 | 1 52 | 22 41 | 0 58 | 4 54 | 1 10 | 11 57 | 1 37 | 13 9 | 0 29 | 11 40 | 0 42 | 22 49 | 0 37 | 22 25 | 22 32 | 6 14 | 13 17 | 0 57 | T 25 |
| W26 | 19 22 | 21 41 | 0s57 | 20 2 | 2 37 | 3 56 | 2 1 | 22 35 | 0 59 | 4 49 | 1 10 | 11 55 | 1 37 | 13 9 | 0 29 | 11 40 | 0 42 | 22 49 | 0 38 | 22 25 | 22 32 | 6 17 | 13 17 | 0 57 | W26 |
| T 27 | 19 8 | 19 41 | 2 7 | 20 13 | 2 21 | 3 33 | 2 11 | 22 29 | 0 59 | 4 45 | 1 10 | 11 52 | 1 37 | 13 10 | 0 29 | 11 41 | 0 42 | 22 49 | 0 38 | 22 25 | 22 33 | 6 20 | 13 17 | 0 57 | T 27 |
| F 28 | 18 55 | 16 41 | 3 8 | 20 23 | 2 6 | 3 10 | 2 21 | 22 22 | 0 59 | 4 41 | 1 10 | 11 50 | 1 37 | 13 10 | 0 29 | 11 41 | 0 42 | 22 49 | 0 38 | 22 26 | 22 33 | 6 22 | 13 17 | 0 57 | F 28 |
| S 29 | 18 40 | 12 58 | 3 59 | 20 32 | 1 50 | 2 47 | 2 31 | 22 16 | 1 0 | 4 36 | 1 10 | 11 47 | 1 37 | 13 10 | 0 29 | 11 42 | 0 42 | 22 49 | 0 38 | 22 26 | 22 33 | 6 25 | 13 17 | 0 57 | S 29 |
| S 30 | 18 26 | 8 46 | 4 38 | 20 41 | 1 34 | 2 25 | 2 41 | 22 9 | 1 0 | 4 32 | 1 10 | 11 45 | 1 37 | 13 10 | 0 29 | 11 42 | 0 42 | 22 49 | 0 38 | 22 26 | 22 34 | 6 27 | 13 17 | 0 57 | S 30 |
| M31 | 18n11 | 4s17 | 5s 2 | 20n47 | 1s19 | 2n 3 | 2s51 | 22n 2 | 1n 0 | 4n27 | 1n 9 | 11n42 | 1n37 | 13n10 | 0s29 | 11s43 | 0s42 | 22n48 | 0n38 | 22n27 | 22n34 | 6n30 | 13n18 | 0s58 | M31 |

Julian Day Number = 2336310.5, Delta T = 21.18 sec
Ecliptic obliquity = 23°28'46, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'10, Lahiri = 19°27'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## AUGUST 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 41 44 | 9♌24'04 | 12♈55 | 20♋25 | 18♍41 | 26♋17 | 21♍38 | 3♍46 | 6♉17 | 1°R11 | 18♋39 | 16°R34 | 15♋31 | 29♈13 | 8♉ 1 | T 1 |
| W 2 | 20 45 41 | 10°21'33 | 24°51 | 21°38 | 19° 9 | 26°56 | 21°49 | 3°53 | 6°17 | 1♓10 | 18°41 | 16♋32 | 15°28 | 29°20 | 8° 2 | W 2 |
| T 3 | 20 49 37 | 11°19'04 | 6♉44 | 22°58 | 19°36 | 27°35 | 22° 1 | 4° 0 | 6°17 | 1° 8 | 18°42 | 16°D31 | 15°25 | 29°27 | 8° 2 | T 3 |
| F 4 | 20 53 34 | 12°16'36 | 18°38 | 24°22 | 20° 2 | 28°13 | 22°12 | 4° 7 | 6°18 | 1° 7 | 18°44 | 16°31 | 15°22 | 29°34 | 8° 3 | F 4 |
| S 5 | 20 57 30 | 13°14'09 | 0♊38 | 25°51 | 20°26 | 28°52 | 22°23 | 4°14 | 6°18 | 1° 5 | 18°45 | 16°32 | 15°18 | 29°40 | 8° 3 | S 5 |
| S 6 | 21 1 27 | 14°11'44 | 12°50 | 27°25 | 20°48 | 29°31 | 22°34 | 4°22 | 6°18 | 1° 3 | 18°47 | 16°33 | 15°15 | 29°47 | 8° 4 | S 6 |
| M 7 | 21 5 24 | 15° 9'20 | 25°16 | 29° 3 | 21° 9 | 0♌ 9 | 22°46 | 4°29 | 6°19 | 1° 2 | 18°48 | 16°35 | 15°12 | 29°54 | 8° 4 | M 7 |
| T 8 | 21 9 20 | 16° 6'57 | 8♋ 1 | 0♌45 | 21°28 | 0°48 | 22°57 | 4°36 | 6°19 | 1° 0 | 18°50 | 16°36 | 15° 9 | 0♉ 1 | 8° 4 | T 8 |
| W 9 | 21 13 17 | 17° 4'36 | 21° 7 | 2°31 | 21°44 | 1°27 | 23° 9 | 4°43 | 6°19 | 0°59 | 18°51 | 16°R36 | 15° 6 | 0° 7 | 8° 4 | W 9 |
| T 10 | 21 17 13 | 18° 2'17 | 4♌36 | 4°20 | 21°59 | 2° 5 | 23°21 | 4°51 | 6°19 | 0°57 | 18°53 | 16°35 | 15° 3 | 0°14 | 8° 4 | T 10 |
| F 11 | 21 21 10 | 18°59'58 | 18°26 | 6°11 | 22°12 | 2°44 | 23°32 | 4°58 | 6°R19 | 0°56 | 18°54 | 16°32 | 14°59 | 0°21 | 8° 4 | F 11 |
| S 12 | 21 25 6 | 19°57'41 | 2♍34 | 8° 5 | 22°23 | 3°22 | 23°44 | 5° 6 | 6°19 | 0°54 | 18°55 | 16°28 | 14°56 | 0°27 | 8°R 4 | S 12 |
| S 13 | 21 29 3 | 20°55'25 | 16°56 | 10° 1 | 22°32 | 4° 1 | 23°56 | 5°13 | 6°19 | 0°52 | 18°57 | 16°23 | 14°53 | 0°34 | 8° 4 | S 13 |
| M14 | 21 32 59 | 21°53'11 | 1♎25 | 11°59 | 22°39 | 4°39 | 24° 8 | 5°20 | 6°19 | 0°51 | 18°58 | 16°18 | 14°50 | 0°41 | 8° 4 | M14 |
| T 15 | 21 36 56 | 22°50'57 | 15°57 | 13°57 | 22°43 | 5°18 | 24°19 | 5°28 | 6°19 | 0°49 | 19° 0 | 16°14 | 14°47 | 0°48 | 8° 4 | T 15 |
| W16 | 21 40 53 | 23°48'45 | 0♏25 | 15°57 | 22°R46 | 5°56 | 24°31 | 5°35 | 6°18 | 0°47 | 19° 1 | 16°10 | 14°44 | 0°54 | 8° 4 | W16 |
| T 17 | 21 44 49 | 24°46'34 | 14°45 | 17°57 | 22°46 | 6°35 | 24°43 | 5°43 | 6°18 | 0°46 | 19° 2 | 16° 8 | 14°40 | 1° 1 | 8° 4 | T 17 |
| F 18 | 21 48 46 | 25°44'24 | 28°53 | 19°57 | 22°43 | 7°13 | 24°55 | 5°50 | 6°18 | 0°44 | 19° 4 | 16°D 8 | 14°37 | 1° 8 | 8° 3 | F 18 |
| S 19 | 21 52 42 | 26°42'15 | 12♐49 | 21°57 | 22°38 | 7°51 | 25° 7 | 5°58 | 6°17 | 0°43 | 19° 5 | 16° 9 | 14°34 | 1°14 | 8° 3 | S 19 |
| S 20 | 21 56 39 | 27°40'08 | 26°32 | 23°57 | 22°31 | 8°30 | 25°20 | 6° 5 | 6°17 | 0°41 | 19° 6 | 16°10 | 14°31 | 1°21 | 8° 2 | S 20 |
| M21 | 22 0 35 | 28°38'01 | 10♑ 2 | 25°57 | 22°22 | 9° 8 | 25°32 | 6°13 | 6°16 | 0°39 | 19° 8 | 16°R11 | 14°28 | 1°28 | 8° 2 | M21 |
| T 22 | 22 4 32 | 29°35'57 | 23°20 | 27°56 | 22°10 | 9°46 | 25°44 | 6°20 | 6°16 | 0°38 | 19° 9 | 16°11 | 14°24 | 1°35 | 8° 1 | T 22 |
| W23 | 22 8 28 | 0♒33'53 | 6♓26 | 29°54 | 21°55 | 10°24 | 25°56 | 6°28 | 6°15 | 0°36 | 19°10 | 16° 9 | 14°21 | 1°41 | 8° 1 | W23 |
| T 24 | 22 12 25 | 1°31'51 | 19°20 | 1♒51 | 21°39 | 11° 3 | 26° 9 | 6°35 | 6°15 | 0°34 | 19°11 | 16° 5 | 14°18 | 1°48 | 8° 0 | T 24 |
| F 25 | 22 16 22 | 2°29'51 | 2♈ 2 | 3°47 | 21°20 | 11°41 | 26°21 | 6°43 | 6°14 | 0°33 | 19°13 | 15°59 | 14°15 | 1°55 | 7°59 | F 25 |
| S 26 | 22 20 18 | 3°27'52 | 14°33 | 5°42 | 20°58 | 12°19 | 26°33 | 6°51 | 6°13 | 0°31 | 19°14 | 15°51 | 14°12 | 2° 1 | 7°58 | S 26 |
| S 27 | 22 24 15 | 4°25'54 | 26°52 | 7°36 | 20°35 | 12°57 | 26°46 | 6°58 | 6°13 | 0°29 | 19°15 | 15°42 | 14° 9 | 2° 8 | 7°57 | S 27 |
| M28 | 22 28 11 | 5°23'59 | 9♈ 1 | 9°29 | 20° 9 | 13°35 | 26°58 | 7° 6 | 6°12 | 0°28 | 19°16 | 15°33 | 14° 5 | 2°15 | 7°56 | M28 |
| T 29 | 22 32 8 | 6°22'05 | 21° 1 | 11°21 | 19°42 | 14°13 | 27°11 | 7°13 | 6°11 | 0°26 | 19°17 | 15°25 | 14° 2 | 2°22 | 7°55 | T 29 |
| W30 | 22 36 4 | 7°20'13 | 2♉55 | 13°12 | 19°13 | 14°51 | 27°23 | 7°21 | 6°10 | 0°25 | 19°18 | 15°18 | 13°59 | 2°28 | 7°54 | W30 |
| T 31 | 22 40 1 | 8♍18'24 | 14♉46 | 15♍ 1 | 18♍42 | 15♌29 | 27♍36 | 7♍28 | 6♉ 9 | 0♓23 | 19♋20 | 15♋13 | 13♋56 | 2♉35 | 7♉53 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17n56 | 0n18 | 5s13 | 20n53 | 1s 4 | 1n42 | 3s 2 | 21n55 | 1n 1 | 4n23 | 1n 9 | 11n39 | 1n37 | 13n11 | 0s29 | 11s44 | 0s42 | 22n48 | 0n38 | 22n27 | 22n35 | 6n32 | 13n18 | 0s58 |
| W 2 | 17 40 | 4 49 | 5 11 | 20 56 | 0 49 | 1 21 | 3 13 | 21 48 | 1 1 | 4 19 | 1 9 | 11 37 | 1 37 | 13 11 | 0 29 | 11 44 | 0 42 | 22 48 | 0 38 | 22 27 | 22 35 | 6 35 | 13 18 | 0 58 |
| T 3 | 17 25 | 9 8 | 4 55 | 20 58 | 0 34 | 1 0 | 3 23 | 21 41 | 1 1 | 4 14 | 1 9 | 11 34 | 1 37 | 13 11 | 0 29 | 11 45 | 0 42 | 22 48 | 0 38 | 22 27 | 22 35 | 6 37 | 13 18 | 0 58 |
| F 4 | 17 9 | 13 8 | 4 26 | 20 57 | 0 20 | 0 40 | 3 35 | 21 34 | 1 2 | 4 9 | 1 9 | 11 32 | 1 37 | 13 11 | 0 29 | 11 45 | 0 42 | 22 48 | 0 38 | 22 27 | 22 36 | 6 40 | 13 18 | 0 58 |
| S 5 | 16 52 | 16 38 | 3 46 | 20 55 | 0 6 | 0 20 | 3 46 | 21 26 | 1 2 | 4 5 | 1 9 | 11 29 | 1 37 | 13 11 | 0 29 | 11 46 | 0 42 | 22 48 | 0 38 | 22 27 | 22 36 | 6 42 | 13 18 | 0 58 |
| S 6 | 16 36 | 19 29 | 2 55 | 20 50 | 0n 7 | 0 1 | 3 57 | 21 18 | 1 2 | 4 0 | 1 9 | 11 26 | 1 37 | 13 11 | 0 29 | 11 46 | 0 42 | 22 48 | 0 38 | 22 27 | 22 36 | 6 45 | 13 18 | 0 59 |
| M 7 | 16 19 | 21 29 | 1 54 | 20 42 | 0 20 | 0s18 | 4 9 | 21 10 | 1 3 | 3 56 | 1 9 | 11 24 | 1 37 | 13 11 | 0 29 | 11 47 | 0 42 | 22 47 | 0 38 | 22 27 | 22 37 | 6 47 | 13 18 | 0 59 |
| T 8 | 16 2 | 22 27 | 0 47 | 20 32 | 0 31 | 0 36 | 4 20 | 21 2 | 1 3 | 3 51 | 1 9 | 11 21 | 1 37 | 13 11 | 0 29 | 11 48 | 0 42 | 22 47 | 0 38 | 22 27 | 22 37 | 6 50 | 13 18 | 0 59 |
| W 9 | 15 45 | 22 13 | 0n25 | 20 19 | 0 42 | 0 53 | 4 32 | 20 54 | 1 3 | 3 46 | 1 9 | 11 18 | 1 37 | 13 11 | 0 29 | 11 48 | 0 42 | 22 47 | 0 39 | 22 27 | 22 37 | 6 53 | 13 18 | 0 59 |
| T 10 | 15 27 | 20 43 | 1 37 | 20 3 | 0 52 | 1 10 | 4 44 | 20 46 | 1 4 | 3 42 | 1 9 | 11 16 | 1 37 | 13 11 | 0 29 | 11 49 | 0 42 | 22 47 | 0 39 | 22 27 | 22 38 | 6 55 | 13 17 | 0 59 |
| F 11 | 15 9 | 17 57 | 2 45 | 19 45 | 1 2 | 1 26 | 4 55 | 20 37 | 1 4 | 3 37 | 1 8 | 11 13 | 1 37 | 13 11 | 0 29 | 11 49 | 0 42 | 22 47 | 0 39 | 22 27 | 22 38 | 6 58 | 13 17 | 0 59 |
| S 12 | 14 51 | 14 4 | 3 44 | 19 24 | 1 10 | 1 41 | 5 7 | 20 29 | 1 4 | 3 32 | 1 8 | 11 10 | 1 37 | 13 11 | 0 29 | 11 50 | 0 42 | 22 47 | 0 39 | 22 28 | 22 38 | 7 0 | 13 17 | 0 59 |
| S 13 | 14 33 | 9 19 | 4 31 | 19 1 | 1 17 | 1 55 | 5 19 | 20 20 | 1 5 | 3 28 | 1 8 | 11 7 | 1 37 | 13 11 | 0 29 | 11 50 | 0 42 | 22 47 | 0 39 | 22 28 | 22 39 | 7 3 | 13 17 | 1 0 |
| M14 | 14 14 | 4 1 | 5 0 | 18 34 | 1 24 | 2 9 | 5 31 | 20 11 | 1 5 | 3 23 | 1 8 | 11 5 | 1 37 | 13 11 | 0 29 | 11 51 | 0 42 | 22 47 | 0 39 | 22 29 | 22 39 | 7 5 | 13 17 | 1 0 |
| T 15 | 13 55 | 1s30 | 5 11 | 18 6 | 1 30 | 2 22 | 5 43 | 20 2 | 1 5 | 3 18 | 1 8 | 11 2 | 1 37 | 13 11 | 0 29 | 11 52 | 0 42 | 22 46 | 0 39 | 22 30 | 22 40 | 7 8 | 13 17 | 1 0 |
| W16 | 13 36 | 6 56 | 5 1 | 17 35 | 1 35 | 2 34 | 5 55 | 19 53 | 1 6 | 3 13 | 1 8 | 10 59 | 1 38 | 13 11 | 0 30 | 11 52 | 0 42 | 22 46 | 0 39 | 22 30 | 22 40 | 7 10 | 13 16 | 1 0 |
| T 17 | 13 17 | 11 56 | 4 33 | 17 2 | 1 38 | 2 45 | 6 7 | 19 43 | 1 6 | 3 8 | 1 8 | 10 57 | 1 38 | 13 11 | 0 30 | 11 53 | 0 42 | 22 46 | 0 39 | 22 30 | 22 40 | 7 13 | 13 16 | 1 0 |
| F 18 | 12 58 | 16 14 | 3 48 | 16 28 | 1 42 | 2 54 | 6 19 | 19 34 | 1 6 | 3 4 | 1 8 | 10 54 | 1 38 | 13 11 | 0 30 | 11 53 | 0 42 | 22 46 | 0 39 | 22 30 | 22 41 | 7 15 | 13 16 | 1 0 |
| S 19 | 12 38 | 19 33 | 2 51 | 15 51 | 1 44 | 3 3 | 6 31 | 19 24 | 1 6 | 2 59 | 1 8 | 10 51 | 1 38 | 13 10 | 0 30 | 11 54 | 0 42 | 22 46 | 0 39 | 22 30 | 22 41 | 7 18 | 13 16 | 1 0 |
| S 20 | 12 18 | 21 42 | 1 45 | 15 13 | 1 45 | 3 11 | 6 42 | 19 15 | 1 7 | 2 54 | 1 8 | 10 48 | 1 38 | 13 10 | 0 30 | 11 55 | 0 42 | 22 46 | 0 39 | 22 30 | 22 41 | 7 20 | 13 15 | 1 1 |
| M21 | 11 58 | 22 33 | 0 33 | 14 33 | 1 46 | 3 18 | 6 53 | 19 5 | 1 7 | 2 49 | 1 8 | 10 46 | 1 38 | 13 10 | 0 30 | 11 55 | 0 42 | 22 46 | 0 39 | 22 30 | 22 42 | 7 23 | 13 15 | 1 1 |
| T 22 | 11 38 | 22 6 | 0s39 | 13 52 | 1 46 | 3 23 | 7 4 | 18 55 | 1 7 | 2 44 | 1 8 | 10 43 | 1 38 | 13 10 | 0 30 | 11 56 | 0 42 | 22 46 | 0 39 | 22 30 | 22 42 | 7 26 | 13 15 | 1 1 |
| W23 | 11 17 | 20 26 | 1 47 | 13 11 | 1 46 | 3 27 | 7 15 | 18 45 | 1 8 | 2 39 | 1 8 | 10 40 | 1 38 | 13 10 | 0 30 | 11 56 | 0 42 | 22 46 | 0 40 | 22 30 | 22 42 | 7 28 | 13 14 | 1 1 |
| T 24 | 10 57 | 17 44 | 2 49 | 12 28 | 1 44 | 3 30 | 7 25 | 18 34 | 1 8 | 2 34 | 1 8 | 10 37 | 1 38 | 13 10 | 0 30 | 11 57 | 0 42 | 22 45 | 0 40 | 22 31 | 22 43 | 7 31 | 13 14 | 1 1 |
| F 25 | 10 36 | 14 13 | 3 42 | 11 44 | 1 43 | 3 32 | 7 35 | 18 24 | 1 8 | 2 29 | 1 7 | 10 35 | 1 38 | 13 9 | 0 30 | 11 58 | 0 42 | 22 45 | 0 40 | 22 31 | 22 43 | 7 33 | 13 14 | 1 1 |
| S 26 | 10 15 | 10 7 | 4 22 | 10 59 | 1 40 | 3 32 | 7 45 | 18 14 | 1 8 | 2 24 | 1 7 | 10 32 | 1 38 | 13 9 | 0 30 | 11 58 | 0 42 | 22 45 | 0 40 | 22 32 | 22 43 | 7 36 | 13 13 | 1 1 |
| S 27 | 9 54 | 5 41 | 4 50 | 10 14 | 1 37 | 3 31 | 7 54 | 18 3 | 1 9 | 2 19 | 1 7 | 10 29 | 1 38 | 13 9 | 0 30 | 11 59 | 0 42 | 22 45 | 0 40 | 22 33 | 22 44 | 7 38 | 13 13 | 1 2 |
| M28 | 9 33 | 1 5 | 5 4 | 9 29 | 1 34 | 3 29 | 8 2 | 17 52 | 1 9 | 2 14 | 1 7 | 10 26 | 1 38 | 13 8 | 0 30 | 11 59 | 0 42 | 22 45 | 0 40 | 22 34 | 22 44 | 7 41 | 13 12 | 1 2 |
| T 29 | 9 11 | 3n30 | 5 5 | 8 43 | 1 30 | 3 25 | 8 10 | 17 42 | 1 9 | 2 9 | 1 7 | 10 23 | 1 38 | 13 8 | 0 30 | 12 0 | 0 42 | 22 45 | 0 40 | 22 35 | 22 44 | 7 43 | 13 12 | 1 2 |
| W30 | 8 50 | 7 56 | 4 52 | 7 56 | 1 26 | 3 20 | 8 17 | 17 31 | 1 9 | 2 4 | 1 7 | 10 21 | 1 38 | 13 8 | 0 30 | 12 1 | 0 42 | 22 45 | 0 40 | 22 36 | 22 45 | 7 46 | 13 11 | 1 2 |
| T 31 | 8n28 | 12n 3 | 4s27 | 7n10 | 1n22 | 3s14 | 8s23 | 17n20 | 1n10 | 1n59 | 1n 7 | 10n18 | 1n38 | 13n 8 | 0s30 | 12s 1 | 0s42 | 22n45 | 0n40 | 22n37 | 22n45 | 7n48 | 13n11 | 1s 2 |

Julian Day Number = 2336341.5, Delta T = 21.14 sec
Ecliptic obliquity = 23°28'47, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'15, Lahiri = 19°27'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## SEPTEMBER 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 43 57 | 9♍16'36 | 26♉39 | 16♍49 | 18°R 9 | 16♌ 7 | 27♍48 | 7♍36 | 6°R 8 | 0°R21 | 19♋21 | 15°R10 | 13♋53 | 2♉42 | 7°R52 | F 1 |
| S 2 | 22 47 54 | 10°14'50 | 8♊37 | 18°36 | 17♍36 | 16°45 | 28° 1 | 7°44 | 6♉ 7 | 0♓20 | 19°22 | 15°D 9 | 13°50 | 2°48 | 7♉51 | S 2 |
| S 3 | 22 51 51 | 11°13'07 | 20°45 | 20°22 | 17° 1 | 17°23 | 28°13 | 7°51 | 6° 6 | 0°18 | 19°23 | 15♋ 9 | 13°46 | 2°55 | 7°50 | S 3 |
| M 4 | 22 55 47 | 12°11'25 | 3♋10 | 22° 7 | 16°25 | 18° 1 | 28°26 | 7°59 | 6° 5 | 0°16 | 19°24 | 15°10 | 13°43 | 3° 2 | 7°48 | M 4 |
| T 5 | 22 59 44 | 13° 9'46 | 15°56 | 23°50 | 15°49 | 18°39 | 28°39 | 8° 6 | 6° 4 | 0°15 | 19°25 | 15°R11 | 13°40 | 3° 9 | 7°47 | T 5 |
| W 6 | 23 3 40 | 14° 8'08 | 29° 6 | 25°33 | 15°12 | 19°17 | 28°52 | 8°14 | 6° 2 | 0°13 | 19°26 | 15°10 | 13°37 | 3°15 | 7°45 | W 6 |
| T 7 | 23 7 37 | 15° 6'33 | 12♌43 | 27°14 | 14°35 | 19°55 | 29° 4 | 8°21 | 6° 1 | 0°12 | 19°27 | 15° 7 | 13°34 | 3°22 | 7°44 | T 7 |
| F 8 | 23 11 33 | 16° 5'00 | 26°46 | 28°54 | 13°58 | 20°33 | 29°17 | 8°29 | 6° 0 | 0°10 | 19°28 | 15° 1 | 13°30 | 3°29 | 7°42 | F 8 |
| S 9 | 23 15 30 | 17° 3'28 | 11♍14 | 0♎33 | 13°21 | 21°11 | 29°30 | 8°36 | 5°58 | 0° 9 | 19°29 | 14°53 | 13°27 | 3°35 | 7°41 | S 9 |
| S 10 | 23 19 26 | 18° 1'59 | 26° 0 | 2°11 | 12°45 | 21°49 | 29°43 | 8°44 | 5°57 | 0° 7 | 19°30 | 14°44 | 13°24 | 3°42 | 7°39 | S 10 |
| M11 | 23 23 23 | 19° 0'31 | 10♎56 | 3°48 | 12°10 | 22°27 | 29°56 | 8°51 | 5°56 | 0° 5 | 19°31 | 14°34 | 13°21 | 3°49 | 7°38 | M11 |
| T 12 | 23 27 19 | 19°59'06 | 25°53 | 5°24 | 11°35 | 23° 5 | 0♎ 8 | 8°59 | 5°54 | 0° 4 | 19°32 | 14°25 | 13°18 | 3°56 | 7°36 | T 12 |
| W13 | 23 31 16 | 20°57'42 | 10♏42 | 6°59 | 11° 2 | 23°42 | 0°21 | 9° 6 | 5°53 | 0° 2 | 19°33 | 14°18 | 13°15 | 4° 2 | 7°34 | W13 |
| T 14 | 23 35 13 | 21°56'19 | 25°16 | 8°33 | 10°30 | 24°20 | 0°34 | 9°14 | 5°51 | 0° 1 | 19°34 | 14°13 | 13°11 | 4° 9 | 7°32 | T 14 |
| F 15 | 23 39 9 | 22°54'59 | 9♐31 | 10° 6 | 10° 0 | 24°58 | 0°47 | 9°21 | 5°49 | 29♒59 | 19°34 | 14°10 | 13° 8 | 4°16 | 7°30 | F 15 |
| S 16 | 23 43 6 | 23°53'40 | 23°26 | 11°38 | 9°31 | 25°36 | 1° 0 | 9°29 | 5°48 | 29°58 | 19°35 | 14°D10 | 13° 5 | 4°22 | 7°28 | S 16 |
| S 17 | 23 47 2 | 24°52'23 | 7♑ 1 | 13° 8 | 9° 4 | 26°13 | 1°13 | 9°36 | 5°46 | 29°56 | 19°36 | 14°R10 | 13° 2 | 4°29 | 7°26 | S 17 |
| M18 | 23 50 59 | 25°51'07 | 20°17 | 14°38 | 8°39 | 26°51 | 1°26 | 9°43 | 5°44 | 29°55 | 19°37 | 14°10 | 12°59 | 4°36 | 7°24 | M18 |
| T 19 | 23 54 55 | 26°49'53 | 3♒17 | 16° 7 | 8°17 | 27°29 | 1°39 | 9°51 | 5°43 | 29°54 | 19°38 | 14° 8 | 12°55 | 4°43 | 7°22 | T 19 |
| W20 | 23 58 52 | 27°48'41 | 16° 4 | 17°35 | 7°56 | 28° 6 | 1°52 | 9°58 | 5°41 | 29°52 | 19°38 | 14° 5 | 12°52 | 4°49 | 7°20 | W20 |
| T 21 | 0 2 48 | 28°47'31 | 28°40 | 19° 2 | 7°38 | 28°44 | 2° 5 | 10° 6 | 5°39 | 29°51 | 19°39 | 13°58 | 12°49 | 4°56 | 7°18 | T 21 |
| F 22 | 0 6 45 | 29°46'23 | 11♓ 5 | 20°28 | 7°22 | 29°21 | 2°18 | 10°13 | 5°37 | 29°49 | 19°40 | 13°48 | 12°46 | 5° 3 | 7°16 | F 22 |
| S 23 | 0 10 42 | 0♎45'16 | 23°22 | 21°52 | 7° 9 | 29°59 | 2°31 | 10°20 | 5°35 | 29°48 | 19°40 | 13°37 | 12°43 | 5° 9 | 7°13 | S 23 |
| S 24 | 0 14 38 | 1°44'11 | 5♈31 | 23°16 | 6°58 | 0♍37 | 2°44 | 10°27 | 5°33 | 29°47 | 19°41 | 13°23 | 12°40 | 5°16 | 7°11 | S 24 |
| M25 | 0 18 35 | 2°43'09 | 17°33 | 24°39 | 6°49 | 1°14 | 2°57 | 10°35 | 5°32 | 29°45 | 19°42 | 13° 9 | 12°36 | 5°23 | 7° 9 | M25 |
| T 26 | 0 22 31 | 3°42'09 | 29°29 | 26° 0 | 6°43 | 1°52 | 3°10 | 10°42 | 5°30 | 29°44 | 19°42 | 12°56 | 12°33 | 5°30 | 7° 6 | T 26 |
| W27 | 0 26 28 | 4°41'10 | 11♉20 | 27°20 | 6°39 | 2°29 | 3°23 | 10°49 | 5°28 | 29°43 | 19°43 | 12°45 | 12°30 | 5°36 | 7° 4 | W27 |
| T 28 | 0 30 24 | 5°40'14 | 23°10 | 28°39 | 6°D38 | 3° 7 | 3°36 | 10°56 | 5°26 | 29°41 | 19°43 | 12°36 | 12°27 | 5°43 | 7° 2 | T 28 |
| F 29 | 0 34 21 | 6°39'21 | 5♊ 1 | 29°57 | 6°39 | 3°44 | 3°49 | 11° 3 | 5°23 | 29°40 | 19°44 | 12°30 | 12°24 | 5°50 | 6°59 | F 29 |
| S 30 | 0 38 17 | 7♎38'29 | 16♊57 | 1♏13 | 6♍43 | 4♍21 | 4♎ 2 | 11♍10 | 5♉21 | 29♒39 | 19♋44 | 12♋26 | 12♋21 | 5♉56 | 6♉57 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8n 6 | 15n42 | 3s50 | 6n23 | 1n17 | 3s 7 | 8s29 | 17n 9 | 1n10 | 1n54 | 1n 7 | 10n15 | 1n38 | 13n 7 | 0s30 | 12s 2 | 0s42 | 22n45 | 0n40 | 22n37 | 22n45 | 7n51 | 13n10 | 1s 2 |
| S 2 | 7 44 | 18 46 | 3 3 | 5 37 | 1 12 | 2 58 | 8 33 | 16 57 | 1 10 | 1 49 | 1 7 | 10 12 | 1 38 | 13 7 | 0 30 | 12 2 | 0 42 | 22 45 | 0 40 | 22 37 | 22 46 | 7 53 | 13 10 | 1 3 |
| S 3 | 7 22 | 21 3 | 2 7 | 4 50 | 1 6 | 2 48 | 8 37 | 16 46 | 1 11 | 1 44 | 1 7 | 10 10 | 1 38 | 13 6 | 0 30 | 12 3 | 0 42 | 22 45 | 0 40 | 22 37 | 22 46 | 7 56 | 13 9 | 1 3 |
| M 4 | 7 0 | 22 23 | 1 4 | 4 3 | 1 0 | 2 37 | 8 40 | 16 35 | 1 11 | 1 39 | 1 7 | 10 7 | 1 38 | 13 6 | 0 30 | 12 3 | 0 42 | 22 44 | 0 40 | 22 37 | 22 46 | 7 58 | 13 9 | 1 3 |
| T 5 | 6 38 | 22 36 | 0n 4 | 3 17 | 0 54 | 2 25 | 8 42 | 16 23 | 1 11 | 1 34 | 1 7 | 10 4 | 1 39 | 13 6 | 0 30 | 12 4 | 0 42 | 22 44 | 0 41 | 22 37 | 22 47 | 8 1 | 13 8 | 1 3 |
| W 6 | 6 15 | 21 35 | 1 14 | 2 30 | 0 48 | 2 12 | 8 43 | 16 11 | 1 11 | 1 29 | 1 7 | 10 1 | 1 39 | 13 5 | 0 30 | 12 5 | 0 42 | 22 44 | 0 41 | 22 37 | 22 47 | 8 4 | 13 8 | 1 3 |
| T 7 | 5 53 | 19 17 | 2 21 | 1 44 | 0 42 | 1 58 | 8 43 | 16 0 | 1 12 | 1 24 | 1 7 | 9 59 | 1 39 | 13 5 | 0 30 | 12 5 | 0 42 | 22 44 | 0 41 | 22 37 | 22 47 | 8 6 | 13 7 | 1 3 |
| F 8 | 5 30 | 15 47 | 3 23 | 0 58 | 0 35 | 1 44 | 8 43 | 15 48 | 1 12 | 1 18 | 1 7 | 9 56 | 1 39 | 13 4 | 0 30 | 12 6 | 0 42 | 22 44 | 0 41 | 22 38 | 22 48 | 8 9 | 13 6 | 1 3 |
| S 9 | 5 7 | 11 15 | 4 13 | 0 13 | 0 28 | 1 28 | 8 41 | 15 36 | 1 12 | 1 13 | 1 7 | 9 53 | 1 39 | 13 4 | 0 30 | 12 6 | 0 42 | 22 44 | 0 41 | 22 39 | 22 48 | 8 11 | 13 6 | 1 4 |
| S 10 | 4 44 | 5 59 | 4 47 | 0s33 | 0 21 | 1 12 | 8 38 | 15 24 | 1 12 | 1 8 | 1 7 | 9 50 | 1 39 | 13 3 | 0 30 | 12 7 | 0 42 | 22 44 | 0 41 | 22 40 | 22 48 | 8 14 | 13 5 | 1 4 |
| M11 | 4 21 | 0 18 | 5 2 | 1 18 | 0 14 | 0 56 | 8 35 | 15 12 | 1 13 | 1 3 | 1 7 | 9 48 | 1 39 | 13 3 | 0 30 | 12 7 | 0 42 | 22 44 | 0 41 | 22 41 | 22 49 | 8 16 | 13 4 | 1 4 |
| T 12 | 3 58 | 5s24 | 4 57 | 2 3 | 0 7 | 0 39 | 8 30 | 15 0 | 1 13 | 0 58 | 1 7 | 9 45 | 1 39 | 13 2 | 0 30 | 12 8 | 0 42 | 22 44 | 0 41 | 22 42 | 22 49 | 8 19 | 13 4 | 1 4 |
| W13 | 3 35 | 10 45 | 4 32 | 2 47 | 0s 0 | 0 21 | 8 25 | 14 47 | 1 13 | 0 53 | 1 7 | 9 42 | 1 39 | 13 2 | 0 30 | 12 8 | 0 43 | 22 44 | 0 41 | 22 43 | 22 49 | 8 21 | 13 3 | 1 4 |
| T 14 | 3 12 | 15 24 | 3 49 | 3 31 | 0 8 | 0 4 | 8 19 | 14 35 | 1 13 | 0 48 | 1 7 | 9 39 | 1 39 | 13 1 | 0 30 | 12 9 | 0 43 | 22 44 | 0 41 | 22 43 | 22 49 | 8 24 | 13 2 | 1 4 |
| F 15 | 2 49 | 19 4 | 2 53 | 4 14 | 0 15 | 0n14 | 8 12 | 14 23 | 1 13 | 0 42 | 1 7 | 9 37 | 1 39 | 13 1 | 0 30 | 12 9 | 0 43 | 22 44 | 0 41 | 22 43 | 22 50 | 8 26 | 13 1 | 1 4 |
| S 16 | 2 26 | 21 31 | 1 48 | 4 57 | 0 23 | 0 31 | 8 5 | 14 10 | 1 14 | 0 37 | 1 7 | 9 34 | 1 39 | 13 0 | 0 30 | 12 10 | 0 43 | 22 44 | 0 41 | 22 44 | 22 50 | 8 29 | 13 1 | 1 5 |
| S 17 | 2 2 | 22 40 | 0 38 | 5 40 | 0 30 | 0 49 | 7 57 | 13 57 | 1 14 | 0 32 | 1 7 | 9 31 | 1 40 | 13 0 | 0 30 | 12 10 | 0 43 | 22 44 | 0 41 | 22 44 | 22 50 | 8 31 | 13 0 | 1 5 |
| M18 | 1 39 | 22 29 | 0s32 | 6 21 | 0 38 | 1 6 | 7 48 | 13 45 | 1 14 | 0 27 | 1 7 | 9 28 | 1 40 | 12 59 | 0 30 | 12 11 | 0 43 | 22 44 | 0 42 | 22 44 | 22 51 | 8 34 | 12 59 | 1 5 |
| T 19 | 1 16 | 21 4 | 1 40 | 7 3 | 0 45 | 1 23 | 7 38 | 13 32 | 1 14 | 0 22 | 1 7 | 9 26 | 1 40 | 12 59 | 0 30 | 12 12 | 0 43 | 22 44 | 0 42 | 22 44 | 22 51 | 8 36 | 12 58 | 1 5 |
| W20 | 0 52 | 18 36 | 2 40 | 7 43 | 0 53 | 1 40 | 7 29 | 13 19 | 1 15 | 0 17 | 1 7 | 9 23 | 1 40 | 12 58 | 0 30 | 12 12 | 0 43 | 22 44 | 0 42 | 22 44 | 22 51 | 8 39 | 12 57 | 1 5 |
| T 21 | 0 29 | 15 16 | 3 32 | 8 24 | 1 0 | 1 56 | 7 18 | 13 6 | 1 15 | 0 11 | 1 7 | 9 20 | 1 40 | 12 57 | 0 30 | 12 12 | 0 43 | 22 44 | 0 42 | 22 45 | 22 52 | 8 41 | 12 57 | 1 5 |
| F 22 | 0 5 | 11 19 | 4 13 | 9 3 | 1 8 | 2 12 | 7 7 | 12 53 | 1 15 | 0 6 | 1 7 | 9 18 | 1 40 | 12 57 | 0 30 | 12 13 | 0 42 | 22 44 | 0 42 | 22 46 | 22 52 | 8 44 | 12 56 | 1 5 |
| S 23 | 0s18 | 6 57 | 4 42 | 9 42 | 1 15 | 2 27 | 6 56 | 12 40 | 1 15 | 0 1 | 1 7 | 9 15 | 1 40 | 12 56 | 0 30 | 12 13 | 0 42 | 22 44 | 0 42 | 22 47 | 22 52 | 8 47 | 12 55 | 1 5 |
| S 24 | 0 42 | 2 21 | 4 57 | 10 20 | 1 23 | 2 42 | 6 45 | 12 27 | 1 15 | 0s 4 | 1 7 | 9 12 | 1 40 | 12 56 | 0 30 | 12 14 | 0 42 | 22 44 | 0 42 | 22 48 | 22 53 | 8 49 | 12 54 | 1 6 |
| M25 | 1 5 | 2n17 | 4 59 | 10 57 | 1 30 | 2 56 | 6 33 | 12 14 | 1 16 | 0 9 | 1 7 | 9 10 | 1 40 | 12 55 | 0 30 | 12 14 | 0 42 | 22 44 | 0 42 | 22 50 | 22 53 | 8 52 | 12 53 | 1 6 |
| T 26 | 1 28 | 6 49 | 4 48 | 11 34 | 1 37 | 3 9 | 6 21 | 12 1 | 1 16 | 0 14 | 1 7 | 9 7 | 1 41 | 12 54 | 0 30 | 12 15 | 0 42 | 22 44 | 0 42 | 22 51 | 22 53 | 8 54 | 12 52 | 1 6 |
| W27 | 1 52 | 11 4 | 4 24 | 12 10 | 1 44 | 3 22 | 6 9 | 11 47 | 1 16 | 0 19 | 1 7 | 9 5 | 1 41 | 12 54 | 0 30 | 12 15 | 0 42 | 22 44 | 0 42 | 22 52 | 22 53 | 8 57 | 12 51 | 1 6 |
| T 28 | 2 15 | 14 54 | 3 49 | 12 45 | 1 51 | 3 33 | 5 57 | 11 34 | 1 16 | 0 25 | 1 7 | 9 2 | 1 41 | 12 53 | 0 30 | 12 16 | 0 42 | 22 44 | 0 42 | 22 53 | 22 54 | 8 59 | 12 50 | 1 6 |
| F 29 | 2 39 | 18 9 | 3 4 | 13 19 | 1 58 | 3 44 | 5 45 | 11 21 | 1 17 | 0 30 | 1 7 | 8 59 | 1 41 | 12 52 | 0 30 | 12 16 | 0 42 | 22 44 | 0 42 | 22 54 | 22 54 | 9 2 | 12 49 | 1 6 |
| S 30 | 3s 2 | 20n41 | 2s10 | 13s52 | 2s 5 | 3n55 | 5s33 | 11n 7 | 1n17 | 0s35 | 1n 7 | 8n57 | 1n41 | 12n51 | 0s30 | 12s17 | 0s42 | 22n44 | 0n42 | 22n54 | 22n54 | 9n 4 | 12n49 | 1s 6 |

Julian Day Number = 2336372.5, Delta T = 21.09 sec
Ecliptic obliquity = 23°28'47, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'19, Lahiri = 19°27'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## OCTOBER 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 42 14 | 8♎37'40 | 29♊ 3 | 2♏28 | 6♍49 | 4♍59 | 4♎15 | 11♍17 | 5°R19 | 29°R38 | 19♋45 | 12°R25 | 12♋17 | 6♉ 3 | 6°R54 | S 1 |
| M 2 | 0 46 11 | 9°36'54 | 11♋24 | 3°42 | 6°57 | 5°36 | 4°28 | 11°24 | 5♉17 | 29♒37 | 19°45 | 12♋25 | 12°14 | 6°10 | 6♉51 | M 2 |
| T 3 | 0 50 7 | 10°36'09 | 24° 5 | 4°54 | 7° 7 | 6°14 | 4°41 | 11°31 | 5°15 | 29°36 | 19°46 | 12°25 | 12°11 | 6°17 | 6°49 | T 3 |
| W 4 | 0 54 4 | 11°35'27 | 7♌11 | 6° 4 | 7°19 | 6°51 | 4°53 | 11°38 | 5°13 | 29°34 | 19°46 | 12°23 | 12° 8 | 6°23 | 6°46 | W 4 |
| T 5 | 0 58 0 | 12°34'48 | 20°45 | 7°12 | 7°34 | 7°28 | 5° 6 | 11°45 | 5°11 | 29°33 | 19°47 | 12°20 | 12° 5 | 6°30 | 6°43 | T 5 |
| F 6 | 1 1 57 | 13°34'10 | 4♍50 | 8°18 | 7°51 | 8° 6 | 5°19 | 11°52 | 5° 8 | 29°32 | 19°47 | 12°13 | 12° 1 | 6°37 | 6°41 | F 6 |
| S 7 | 1 5 53 | 14°33'35 | 19°23 | 9°22 | 8° 9 | 8°43 | 5°32 | 11°59 | 5° 6 | 29°31 | 19°47 | 12° 4 | 11°58 | 6°43 | 6°38 | S 7 |
| S 8 | 1 9 50 | 15°33'02 | 4♎20 | 10°24 | 8°30 | 9°20 | 5°45 | 12° 5 | 5° 4 | 29°30 | 19°48 | 11°54 | 11°55 | 6°50 | 6°35 | S 8 |
| M 9 | 1 13 46 | 16°32'31 | 19°32 | 11°23 | 8°52 | 9°57 | 5°58 | 12°12 | 5° 1 | 29°29 | 19°48 | 11°42 | 11°52 | 6°57 | 6°32 | M 9 |
| T 10 | 1 17 43 | 17°32'02 | 4♏48 | 12°19 | 9°16 | 10°35 | 6°11 | 12°19 | 4°59 | 29°28 | 19°48 | 11°31 | 11°49 | 7° 3 | 6°30 | T 10 |
| W11 | 1 21 40 | 18°31'35 | 19°57 | 13°12 | 9°42 | 11°12 | 6°24 | 12°25 | 4°57 | 29°27 | 19°48 | 11°22 | 11°46 | 7°10 | 6°27 | W11 |
| T 12 | 1 25 36 | 19°31'10 | 4♐49 | 14° 2 | 10°10 | 11°49 | 6°37 | 12°32 | 4°54 | 29°26 | 19°49 | 11°16 | 11°42 | 7°17 | 6°24 | T 12 |
| F 13 | 1 29 33 | 20°30'47 | 19°19 | 14°48 | 10°39 | 12°26 | 6°49 | 12°39 | 4°52 | 29°25 | 19°49 | 11°12 | 11°39 | 7°24 | 6°21 | F 13 |
| S 14 | 1 33 29 | 21°30'26 | 3♑23 | 15°29 | 11° 9 | 13° 3 | 7° 2 | 12°45 | 4°50 | 29°25 | 19°49 | 11°11 | 11°36 | 7°30 | 6°18 | S 14 |
| S 15 | 1 37 26 | 22°30'06 | 17° 0 | 16° 6 | 11°41 | 13°40 | 7°15 | 12°51 | 4°47 | 29°24 | 19°49 | 11°11 | 11°33 | 7°37 | 6°15 | S 15 |
| M16 | 1 41 22 | 23°29'48 | 0♒14 | 16°38 | 12°15 | 14°17 | 7°28 | 12°58 | 4°45 | 29°23 | 19°49 | 11°11 | 11°30 | 7°44 | 6°12 | M16 |
| T 17 | 1 45 19 | 24°29'32 | 13° 8 | 17° 4 | 12°50 | 14°54 | 7°41 | 13° 4 | 4°42 | 29°22 | 19°49 | 11° 9 | 11°27 | 7°50 | 6° 9 | T 17 |
| W18 | 1 49 15 | 25°29'18 | 25°44 | 17°24 | 13°26 | 15°32 | 7°53 | 13°10 | 4°40 | 29°21 | 19°49 | 11° 6 | 11°23 | 7°57 | 6° 6 | W18 |
| T 19 | 1 53 12 | 26°29'05 | 8♓ 8 | 17°38 | 14° 4 | 16° 9 | 8° 6 | 13°17 | 4°38 | 29°21 | 19°49 | 10°59 | 11°20 | 8° 4 | 6° 3 | T 19 |
| F 20 | 1 57 9 | 27°28'54 | 20°21 | 17°R44 | 14°43 | 16°45 | 8°19 | 13°23 | 4°35 | 29°20 | 19°R49 | 10°50 | 11°17 | 8°11 | 6° 0 | F 20 |
| S 21 | 2 1 5 | 28°28'44 | 2♈27 | 17°42 | 15°23 | 17°22 | 8°31 | 13°29 | 4°33 | 29°19 | 19°49 | 10°39 | 11°14 | 8°17 | 5°57 | S 21 |
| S 22 | 2 5 2 | 29°28'37 | 14°27 | 17°32 | 16° 4 | 17°59 | 8°44 | 13°35 | 4°30 | 29°19 | 19°49 | 10°26 | 11°11 | 8°24 | 5°54 | S 22 |
| M23 | 2 8 58 | 0♏28'31 | 26°22 | 17°13 | 16°47 | 18°36 | 8°56 | 13°41 | 4°28 | 29°18 | 19°49 | 10°12 | 11° 7 | 8°31 | 5°51 | M23 |
| T 24 | 2 12 55 | 1°28'28 | 8♉15 | 16°44 | 17°30 | 19°13 | 9° 9 | 13°47 | 4°25 | 29°17 | 19°49 | 9°59 | 11° 4 | 8°37 | 5°48 | T 24 |
| W25 | 2 16 51 | 2°28'26 | 20° 6 | 16° 6 | 18°15 | 19°50 | 9°21 | 13°53 | 4°23 | 29°17 | 19°49 | 9°48 | 11° 1 | 8°44 | 5°45 | W25 |
| T 26 | 2 20 48 | 3°28'26 | 1♊57 | 15°19 | 19° 0 | 20°27 | 9°34 | 13°59 | 4°20 | 29°16 | 19°49 | 9°39 | 10°58 | 8°51 | 5°42 | T 26 |
| F 27 | 2 24 44 | 4°28'29 | 13°50 | 14°24 | 19°47 | 21° 4 | 9°46 | 14° 4 | 4°18 | 29°16 | 19°49 | 9°33 | 10°55 | 8°58 | 5°39 | F 27 |
| S 28 | 2 28 41 | 5°28'33 | 25°48 | 13°20 | 20°34 | 21°40 | 9°58 | 14°10 | 4°15 | 29°16 | 19°49 | 9°30 | 10°52 | 9° 4 | 5°36 | S 28 |
| S 29 | 2 32 37 | 6°28'40 | 7♋56 | 12° 9 | 21°23 | 22°17 | 10°11 | 14°16 | 4°13 | 29°15 | 19°48 | 9°D29 | 10°48 | 9°11 | 5°33 | S 29 |
| M30 | 2 36 34 | 7°28'48 | 20°16 | 10°54 | 22°12 | 22°54 | 10°23 | 14°21 | 4°10 | 29°15 | 19°48 | 9°29 | 10°45 | 9°18 | 5°30 | M30 |
| T 31 | 2 40 31 | 8♏28'59 | 2♌54 | 9♏36 | 23♍ 2 | 23♍31 | 10♎35 | 14♍27 | 4♉ 8 | 29♒14 | 19♋48 | 9°R30 | 10♋42 | 9♉24 | 5♉27 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s26 | 22n19 | 1s10 | 14s25 | 2s12 | 4n 4 | 5s20 | 10n54 | 1n17 | 0s40 | 1n 7 | 8n54 | 1n41 | 12n51 | 0s30 | 12s17 | 0s42 | 22n44 | 0n43 | 22n54 | 22n55 | 9n 7 | 12n48 | 1s 7 |
| M 2 | 3 49 | 22 54 | 0 5 | 14 56 | 2 18 | 4 12 | 5 8 | 10 40 | 1 17 | 0 45 | 1 7 | 8 52 | 1 41 | 12 50 | 0 30 | 12 17 | 0 42 | 22 44 | 0 43 | 22 54 | 22 55 | 9 9 | 12 47 | 1 7 |
| T 3 | 4 12 | 22 20 | 1n 1 | 15 26 | 2 24 | 4 20 | 4 56 | 10 26 | 1 17 | 0 50 | 1 7 | 8 49 | 1 42 | 12 49 | 0 30 | 12 18 | 0 42 | 22 44 | 0 43 | 22 54 | 22 55 | 9 12 | 12 46 | 1 7 |
| W 4 | 4 35 | 20 33 | 2 7 | 15 55 | 2 30 | 4 27 | 4 43 | 10 13 | 1 18 | 0 55 | 1 7 | 8 47 | 1 42 | 12 49 | 0 30 | 12 18 | 0 42 | 22 44 | 0 43 | 22 54 | 22 56 | 9 14 | 12 45 | 1 7 |
| T 5 | 4 59 | 17 34 | 3 8 | 16 23 | 2 36 | 4 33 | 4 31 | 9 59 | 1 18 | 1 1 | 1 7 | 8 44 | 1 42 | 12 48 | 0 30 | 12 19 | 0 42 | 22 44 | 0 43 | 22 54 | 22 56 | 9 17 | 12 44 | 1 7 |
| F 6 | 5 22 | 13 28 | 3 59 | 16 50 | 2 41 | 4 38 | 4 19 | 9 45 | 1 18 | 1 6 | 1 7 | 8 42 | 1 42 | 12 47 | 0 30 | 12 19 | 0 42 | 22 44 | 0 43 | 22 55 | 22 56 | 9 19 | 12 43 | 1 7 |
| S 7 | 5 45 | 8 27 | 4 37 | 17 16 | 2 46 | 4 42 | 4 7 | 9 31 | 1 18 | 1 11 | 1 7 | 8 39 | 1 42 | 12 46 | 0 30 | 12 19 | 0 42 | 22 44 | 0 43 | 22 56 | 22 56 | 9 22 | 12 42 | 1 7 |
| S 8 | 6 8 | 2 50 | 4 58 | 17 40 | 2 51 | 4 46 | 3 55 | 9 17 | 1 18 | 1 16 | 1 7 | 8 37 | 1 42 | 12 46 | 0 30 | 12 20 | 0 42 | 22 44 | 0 43 | 22 57 | 22 57 | 9 24 | 12 41 | 1 7 |
| M 9 | 6 31 | 3s 4 | 4 57 | 18 3 | 2 55 | 4 48 | 3 44 | 9 4 | 1 18 | 1 21 | 1 7 | 8 34 | 1 42 | 12 45 | 0 30 | 12 20 | 0 42 | 22 44 | 0 43 | 22 58 | 22 57 | 9 27 | 12 40 | 1 7 |
| T 10 | 6 54 | 8 48 | 4 36 | 18 24 | 2 59 | 4 50 | 3 32 | 8 50 | 1 19 | 1 26 | 1 7 | 8 32 | 1 43 | 12 44 | 0 30 | 12 20 | 0 42 | 22 44 | 0 43 | 22 59 | 22 57 | 9 29 | 12 39 | 1 8 |
| W11 | 7 16 | 13 58 | 3 56 | 18 43 | 3 2 | 4 51 | 3 21 | 8 36 | 1 19 | 1 31 | 1 7 | 8 29 | 1 43 | 12 43 | 0 30 | 12 21 | 0 42 | 22 44 | 0 43 | 23 0 | 22 58 | 9 32 | 12 38 | 1 8 |
| T 12 | 7 39 | 18 12 | 2 59 | 19 1 | 3 5 | 4 51 | 3 9 | 8 22 | 1 19 | 1 36 | 1 7 | 8 27 | 1 43 | 12 42 | 0 30 | 12 21 | 0 42 | 22 44 | 0 43 | 23 0 | 22 58 | 9 34 | 12 36 | 1 8 |
| F 13 | 8 2 | 21 10 | 1 53 | 19 17 | 3 7 | 4 50 | 2 58 | 8 7 | 1 19 | 1 41 | 1 7 | 8 25 | 1 43 | 12 42 | 0 30 | 12 21 | 0 42 | 22 44 | 0 44 | 23 0 | 22 58 | 9 37 | 12 35 | 1 8 |
| S 14 | 8 24 | 22 45 | 0 41 | 19 31 | 3 9 | 4 49 | 2 47 | 7 53 | 1 19 | 1 46 | 1 7 | 8 22 | 1 43 | 12 41 | 0 30 | 12 22 | 0 42 | 22 44 | 0 44 | 23 1 | 22 58 | 9 39 | 12 34 | 1 8 |
| S 15 | 8 46 | 22 54 | 0s31 | 19 42 | 3 10 | 4 47 | 2 36 | 7 39 | 1 20 | 1 51 | 1 7 | 8 20 | 1 43 | 12 40 | 0 30 | 12 22 | 0 42 | 22 44 | 0 44 | 23 1 | 22 59 | 9 42 | 12 33 | 1 8 |
| M16 | 9 8 | 21 45 | 1 39 | 19 52 | 3 9 | 4 44 | 2 26 | 7 25 | 1 20 | 1 56 | 1 7 | 8 18 | 1 44 | 12 39 | 0 30 | 12 22 | 0 42 | 22 44 | 0 44 | 23 1 | 22 59 | 9 44 | 12 32 | 1 8 |
| T 17 | 9 30 | 19 28 | 2 40 | 19 58 | 3 8 | 4 40 | 2 15 | 7 11 | 1 20 | 2 1 | 1 7 | 8 15 | 1 44 | 12 38 | 0 30 | 12 22 | 0 42 | 22 44 | 0 44 | 23 1 | 22 59 | 9 47 | 12 31 | 1 8 |
| W18 | 9 52 | 16 18 | 3 33 | 20 2 | 3 6 | 4 36 | 2 5 | 6 57 | 1 20 | 2 6 | 1 8 | 8 13 | 1 44 | 12 38 | 0 30 | 12 23 | 0 42 | 22 44 | 0 44 | 23 1 | 22 59 | 9 49 | 12 30 | 1 9 |
| T 19 | 10 14 | 12 27 | 4 14 | 20 3 | 3 3 | 4 30 | 1 55 | 6 42 | 1 20 | 2 11 | 1 8 | 8 11 | 1 44 | 12 37 | 0 30 | 12 23 | 0 42 | 22 44 | 0 44 | 23 1 | 23 0 | 9 52 | 12 29 | 1 9 |
| F 20 | 10 36 | 8 9 | 4 42 | 20 1 | 2 59 | 4 25 | 1 45 | 6 28 | 1 20 | 2 16 | 1 8 | 8 9 | 1 44 | 12 36 | 0 30 | 12 23 | 0 42 | 22 44 | 0 44 | 23 2 | 23 0 | 9 54 | 12 28 | 1 9 |
| S 21 | 10 57 | 3 35 | 4 58 | 19 55 | 2 53 | 4 18 | 1 36 | 6 14 | 1 20 | 2 21 | 1 8 | 8 7 | 1 44 | 12 35 | 0 30 | 12 23 | 0 42 | 22 45 | 0 44 | 23 3 | 23 0 | 9 57 | 12 27 | 1 9 |
| S 22 | 11 18 | 1n 5 | 5 0 | 19 45 | 2 46 | 4 11 | 1 26 | 6 0 | 1 21 | 2 26 | 1 8 | 8 4 | 1 45 | 12 34 | 0 30 | 12 24 | 0 42 | 22 45 | 0 44 | 23 4 | 23 1 | 9 59 | 12 26 | 1 9 |
| M23 | 11 39 | 5 42 | 4 49 | 19 31 | 2 37 | 4 3 | 1 17 | 5 45 | 1 21 | 2 31 | 1 8 | 8 2 | 1 45 | 12 33 | 0 30 | 12 24 | 0 42 | 22 45 | 0 44 | 23 5 | 23 1 | 10 2 | 12 25 | 1 9 |
| T 24 | 12 0 | 10 5 | 4 26 | 19 13 | 2 27 | 3 54 | 1 8 | 5 31 | 1 21 | 2 35 | 1 8 | 8 0 | 1 45 | 12 33 | 0 30 | 12 24 | 0 42 | 22 45 | 0 44 | 23 6 | 23 1 | 10 4 | 12 23 | 1 9 |
| W25 | 12 21 | 14 5 | 3 51 | 18 50 | 2 15 | 3 45 | 0 59 | 5 17 | 1 21 | 2 40 | 1 8 | 7 58 | 1 45 | 12 32 | 0 30 | 12 24 | 0 42 | 22 45 | 0 45 | 23 7 | 23 1 | 10 7 | 12 22 | 1 9 |
| T 26 | 12 42 | 17 33 | 3 6 | 18 23 | 2 1 | 3 35 | 0 50 | 5 2 | 1 21 | 2 45 | 1 8 | 7 56 | 1 45 | 12 31 | 0 30 | 12 24 | 0 42 | 22 45 | 0 45 | 23 8 | 23 2 | 10 9 | 12 21 | 1 9 |
| F 27 | 13 2 | 20 19 | 2 12 | 17 51 | 1 45 | 3 25 | 0 42 | 4 48 | 1 21 | 2 50 | 1 8 | 7 54 | 1 46 | 12 30 | 0 30 | 12 24 | 0 42 | 22 45 | 0 45 | 23 8 | 23 2 | 10 12 | 12 20 | 1 9 |
| S 28 | 13 22 | 22 13 | 1 12 | 17 16 | 1 28 | 3 14 | 0 34 | 4 33 | 1 22 | 2 55 | 1 8 | 7 52 | 1 46 | 12 29 | 0 30 | 12 25 | 0 42 | 22 45 | 0 45 | 23 8 | 23 2 | 10 14 | 12 19 | 1 10 |
| S 29 | 13 42 | 23 6 | 0 8 | 16 37 | 1 9 | 3 2 | 0 26 | 4 19 | 1 22 | 2 59 | 1 8 | 7 50 | 1 46 | 12 29 | 0 30 | 12 25 | 0 42 | 22 45 | 0 45 | 23 8 | 23 2 | 10 17 | 12 18 | 1 10 |
| M30 | 14 2 | 22 54 | 0n57 | 15 54 | 0 50 | 2 50 | 0 18 | 4 5 | 1 22 | 3 4 | 1 8 | 7 48 | 1 46 | 12 28 | 0 30 | 12 25 | 0 42 | 22 45 | 0 45 | 23 8 | 23 3 | 10 19 | 12 17 | 1 10 |
| T 31 | 14s21 | 21n31 | 2n 2 | 15s10 | 0s29 | 2n37 | 0s10 | 3n50 | 1n22 | 3s 9 | 1n 8 | 7n46 | 1n46 | 12n27 | 0s30 | 12s25 | 0s42 | 22n46 | 0n45 | 23n 8 | 23n 3 | 10n22 | 12n16 | 1s10 |

Julian Day Number = 2336402.5, Delta T = 21.05 sec
Ecliptic obliquity = 23°28'48, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'23, Lahiri = 19°27'24Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## NOVEMBER 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 44 27 | 9♏29'12 | 15♌54 | 8°R17 | 23♍53 | 24♍ 7 | 10♎47 | 14♍32 | 4°R 6 | 29°R14 | 19°R48 | 9°R30 | 10♋39 | 9♉31 | 5°R24 | W 1 |
| T 2 | 2 48 24 | 10°29'27 | 29°20 | 7♏ 0 | 24°44 | 24°44 | 11° 0 | 14°37 | 4♉ 3 | 29♒14 | 19♋47 | 9♋28 | 10°36 | 9°38 | 5♉21 | T 2 |
| F 3 | 2 52 20 | 11°29'44 | 13♍15 | 5°48 | 25°37 | 25°21 | 11°12 | 14°43 | 4° 1 | 29°14 | 19°47 | 9°24 | 10°32 | 9°44 | 5°18 | F 3 |
| S 4 | 2 56 17 | 12°30'02 | 27°39 | 4°42 | 26°30 | 25°57 | 11°24 | 14°48 | 3°58 | 29°13 | 19°47 | 9°18 | 10°29 | 9°51 | 5°15 | S 4 |
| S 5 | 3 0 13 | 13°30'23 | 12♎29 | 3°45 | 27°23 | 26°34 | 11°36 | 14°53 | 3°56 | 29°13 | 19°46 | 9°10 | 10°26 | 9°58 | 5°12 | S 5 |
| M 6 | 3 4 10 | 14°30'46 | 27°38 | 2°59 | 28°18 | 27°10 | 11°48 | 14°58 | 3°53 | 29°13 | 19°46 | 9° 2 | 10°23 | 10° 5 | 5° 9 | M 6 |
| T 7 | 3 8 6 | 15°31'11 | 12♏57 | 2°23 | 29°13 | 27°47 | 11°59 | 15° 3 | 3°51 | 29°13 | 19°45 | 8°53 | 10°20 | 10°11 | 5° 6 | T 7 |
| W 8 | 3 12 3 | 16°31'37 | 28°14 | 1°59 | 0♎ 9 | 28°23 | 12°11 | 15° 8 | 3°48 | 29°13 | 19°45 | 8°46 | 10°17 | 10°18 | 5° 3 | W 8 |
| T 9 | 3 16 0 | 17°32'05 | 13♐18 | 1°47 | 1° 5 | 29° 0 | 12°23 | 15°13 | 3°46 | 29°13 | 19°44 | 8°41 | 10°13 | 10°25 | 5° 0 | T 9 |
| F 10 | 3 19 56 | 18°32'34 | 28° 1 | 1°D46 | 2° 2 | 29°36 | 12°35 | 15°17 | 3°44 | 29°D13 | 19°44 | 8°39 | 10°10 | 10°31 | 4°57 | F 10 |
| S 11 | 3 23 53 | 19°33'05 | 12♑18 | 1°57 | 2°59 | 0♎13 | 12°46 | 15°22 | 3°41 | 29°13 | 19°43 | 8°D38 | 10° 7 | 10°38 | 4°54 | S 11 |
| S 12 | 3 27 49 | 20°33'37 | 26° 6 | 2°17 | 3°57 | 0°49 | 12°58 | 15°27 | 3°39 | 29°13 | 19°43 | 8°39 | 10° 4 | 10°45 | 4°51 | S 12 |
| M13 | 3 31 46 | 21°34'11 | 9♒27 | 2°46 | 4°55 | 1°25 | 13° 9 | 15°31 | 3°37 | 29°13 | 19°42 | 8°41 | 10° 1 | 10°52 | 4°48 | M13 |
| T 14 | 3 35 42 | 22°34'45 | 22°24 | 3°24 | 5°54 | 2° 2 | 13°21 | 15°35 | 3°34 | 29°13 | 19°42 | 8°R41 | 9°58 | 10°58 | 4°45 | T 14 |
| W15 | 3 39 39 | 23°35'21 | 5♓ 0 | 4° 9 | 6°54 | 2°38 | 13°32 | 15°40 | 3°32 | 29°13 | 19°41 | 8°40 | 9°54 | 11° 5 | 4°42 | W15 |
| T 16 | 3 43 35 | 24°35'58 | 17°20 | 5° 1 | 7°54 | 3°14 | 13°43 | 15°44 | 3°30 | 29°13 | 19°40 | 8°38 | 9°51 | 11°12 | 4°39 | T 16 |
| F 17 | 3 47 32 | 25°36'36 | 29°27 | 5°59 | 8°54 | 3°50 | 13°55 | 15°48 | 3°28 | 29°14 | 19°40 | 8°33 | 9°48 | 11°18 | 4°36 | F 17 |
| S 18 | 3 51 29 | 26°37'15 | 11♈26 | 7° 2 | 9°55 | 4°26 | 14° 6 | 15°52 | 3°25 | 29°14 | 19°39 | 8°26 | 9°45 | 11°25 | 4°34 | S 18 |
| S 19 | 3 55 25 | 27°37'56 | 23°21 | 8° 9 | 10°56 | 5° 3 | 14°17 | 15°56 | 3°23 | 29°14 | 19°38 | 8°19 | 9°42 | 11°32 | 4°31 | S 19 |
| M20 | 3 59 22 | 28°38'38 | 5♉12 | 9°21 | 11°58 | 5°39 | 14°28 | 16° 0 | 3°21 | 29°15 | 19°38 | 8°11 | 9°38 | 11°38 | 4°28 | M20 |
| T 21 | 4 3 18 | 29°39'21 | 17° 4 | 10°35 | 13° 0 | 6°15 | 14°39 | 16° 4 | 3°19 | 29°15 | 19°37 | 8° 3 | 9°35 | 11°45 | 4°25 | T 21 |
| W22 | 4 7 15 | 0♐40'05 | 28°56 | 11°52 | 14° 2 | 6°51 | 14°50 | 16° 7 | 3°17 | 29°15 | 19°36 | 7°57 | 9°32 | 11°52 | 4°23 | W22 |
| T 23 | 4 11 11 | 1°40'51 | 10♊52 | 13°12 | 15° 5 | 7°27 | 15° 0 | 16°11 | 3°15 | 29°16 | 19°35 | 7°52 | 9°29 | 11°59 | 4°20 | T 23 |
| F 24 | 4 15 8 | 2°41'38 | 22°53 | 14°33 | 16° 8 | 8° 3 | 15°11 | 16°15 | 3°12 | 29°16 | 19°35 | 7°49 | 9°26 | 12° 5 | 4°18 | F 24 |
| S 25 | 4 19 4 | 3°42'26 | 5♋ 1 | 15°56 | 17°11 | 8°39 | 15°22 | 16°18 | 3°10 | 29°17 | 19°34 | 7°D48 | 9°23 | 12°12 | 4°15 | S 25 |
| S 26 | 4 23 1 | 4°43'16 | 17°17 | 17°21 | 18°15 | 9°14 | 15°32 | 16°21 | 3° 8 | 29°17 | 19°33 | 7°48 | 9°19 | 12°19 | 4°12 | S 26 |
| M27 | 4 26 58 | 5°44'07 | 29°45 | 18°47 | 19°19 | 9°50 | 15°43 | 16°24 | 3° 6 | 29°18 | 19°32 | 7°49 | 9°16 | 12°25 | 4°10 | M27 |
| T 28 | 4 30 54 | 6°44'59 | 12♌28 | 20°14 | 20°24 | 10°26 | 15°53 | 16°28 | 3° 4 | 29°19 | 19°31 | 7°51 | 9°13 | 12°32 | 4° 7 | T 28 |
| W29 | 4 34 51 | 7°45'53 | 25°29 | 21°42 | 21°29 | 11° 2 | 16° 3 | 16°31 | 3° 3 | 29°19 | 19°30 | 7°53 | 9°10 | 12°39 | 4° 5 | W29 |
| T 30 | 4 38 47 | 8♐46'48 | 8♍50 | 23♏11 | 22♎34 | 11♎38 | 16♎13 | 16♍33 | 3♉ 1 | 29♒20 | 19♋29 | 7°R53 | 9♋ 7 | 12♉45 | 4♉ 3 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14s41 | 18n59 | 3n 2 | 14s26 | 0s 9 | 2n24 | 0s 2 | 3n36 | 1n22 | 3s14 | 1n 9 | 7n44 | 1n47 | 12n26 | 0s30 | 12s25 | 0s42 | 22n46 | 0n45 | 23n 8 | 23n 3 | 10n24 | 12n15 | 1s10 |
| T 2 | 15 0 | 15 23 | 3 54 | 13 41 | 0n12 | 2 10 | 0n 5 | 3 21 | 1 22 | 3 18 | 1 9 | 7 42 | 1 47 | 12 25 | 0 30 | 12 25 | 0 42 | 22 46 | 0 45 | 23 8 | 23 3 | 10 27 | 12 14 | 1 10 |
| F 3 | 15 18 | 10 49 | 4 35 | 12 58 | 0 32 | 1 56 | 0 12 | 3 7 | 1 22 | 3 23 | 1 9 | 7 40 | 1 47 | 12 24 | 0 30 | 12 25 | 0 42 | 22 46 | 0 45 | 23 9 | 23 4 | 10 29 | 12 12 | 1 10 |
| S 4 | 15 37 | 5 31 | 4 59 | 12 19 | 0 51 | 1 41 | 0 19 | 2 52 | 1 23 | 3 28 | 1 9 | 7 39 | 1 47 | 12 24 | 0 30 | 12 25 | 0 42 | 22 46 | 0 45 | 23 9 | 23 4 | 10 32 | 12 11 | 1 10 |
| S 5 | 15 55 | 0s16 | 5 5 | 11 43 | 1 8 | 1 26 | 0 26 | 2 38 | 1 23 | 3 32 | 1 9 | 7 37 | 1 47 | 12 23 | 0 30 | 12 25 | 0 42 | 22 46 | 0 45 | 23 10 | 23 4 | 10 34 | 12 10 | 1 10 |
| M 6 | 16 13 | 6 8 | 4 50 | 11 12 | 1 24 | 1 10 | 0 32 | 2 23 | 1 23 | 3 37 | 1 9 | 7 35 | 1 48 | 12 22 | 0 30 | 12 25 | 0 42 | 22 46 | 0 46 | 23 10 | 23 4 | 10 37 | 12 9 | 1 10 |
| T 7 | 16 31 | 11 43 | 4 14 | 10 47 | 1 38 | 0 54 | 0 38 | 2 9 | 1 23 | 3 41 | 1 9 | 7 33 | 1 48 | 12 21 | 0 30 | 12 25 | 0 42 | 22 47 | 0 46 | 23 11 | 23 5 | 10 39 | 12 8 | 1 10 |
| W 8 | 16 48 | 16 33 | 3 20 | 10 28 | 1 50 | 0 38 | 0 45 | 1 55 | 1 23 | 3 46 | 1 9 | 7 32 | 1 48 | 12 20 | 0 30 | 12 25 | 0 42 | 22 47 | 0 46 | 23 11 | 23 5 | 10 42 | 12 7 | 1 10 |
| T 9 | 17 6 | 20 15 | 2 12 | 10 14 | 2 0 | 0 21 | 0 51 | 1 40 | 1 23 | 3 50 | 1 9 | 7 30 | 1 48 | 12 20 | 0 30 | 12 25 | 0 42 | 22 47 | 0 46 | 23 12 | 23 5 | 10 44 | 12 6 | 1 11 |
| F 10 | 17 22 | 22 31 | 0 57 | 10 6 | 2 9 | 0 3 | 0 56 | 1 26 | 1 23 | 3 55 | 1 9 | 7 28 | 1 48 | 12 19 | 0 30 | 12 25 | 0 42 | 22 47 | 0 46 | 23 12 | 23 5 | 10 47 | 12 5 | 1 11 |
| S 11 | 17 39 | 23 14 | 0s20 | 10 3 | 2 15 | 0s14 | 1 2 | 1 11 | 1 23 | 3 59 | 1 10 | 7 27 | 1 49 | 12 18 | 0 30 | 12 25 | 0 42 | 22 47 | 0 46 | 23 12 | 23 6 | 10 49 | 12 4 | 1 11 |
| S 12 | 17 55 | 22 29 | 1 33 | 10 6 | 2 20 | 0 32 | 1 7 | 0 57 | 1 23 | 4 4 | 1 10 | 7 25 | 1 49 | 12 17 | 0 30 | 12 25 | 0 42 | 22 47 | 0 46 | 23 12 | 23 6 | 10 52 | 12 3 | 1 11 |
| M13 | 18 11 | 20 28 | 2 39 | 10 13 | 2 23 | 0 51 | 1 13 | 0 43 | 1 24 | 4 8 | 1 10 | 7 24 | 1 49 | 12 16 | 0 30 | 12 25 | 0 42 | 22 47 | 0 46 | 23 12 | 23 6 | 10 54 | 12 2 | 1 11 |
| T 14 | 18 27 | 17 26 | 3 34 | 10 24 | 2 25 | 1 10 | 1 18 | 0 28 | 1 24 | 4 12 | 1 10 | 7 22 | 1 49 | 12 16 | 0 30 | 12 25 | 0 42 | 22 48 | 0 46 | 23 12 | 23 6 | 10 57 | 12 1 | 1 11 |
| W15 | 18 42 | 13 41 | 4 18 | 10 39 | 2 25 | 1 29 | 1 23 | 0 14 | 1 24 | 4 17 | 1 10 | 7 21 | 1 50 | 12 15 | 0 30 | 12 25 | 0 42 | 22 48 | 0 46 | 23 12 | 23 7 | 10 59 | 12 0 | 1 11 |
| T 16 | 18 57 | 9 26 | 4 48 | 10 57 | 2 24 | 1 48 | 1 27 | 0s 0 | 1 24 | 4 21 | 1 10 | 7 19 | 1 50 | 12 14 | 0 30 | 12 25 | 0 42 | 22 48 | 0 46 | 23 12 | 23 7 | 11 2 | 11 59 | 1 11 |
| F 17 | 19 12 | 4 53 | 5 5 | 11 18 | 2 23 | 2 7 | 1 32 | 0 15 | 1 24 | 4 25 | 1 10 | 7 18 | 1 50 | 12 13 | 0 30 | 12 25 | 0 42 | 22 48 | 0 46 | 23 12 | 23 7 | 11 4 | 11 58 | 1 11 |
| S 18 | 19 26 | 0 12 | 5 8 | 11 41 | 2 20 | 2 27 | 1 36 | 0 29 | 1 24 | 4 29 | 1 10 | 7 17 | 1 50 | 12 13 | 0 30 | 12 25 | 0 42 | 22 48 | 0 47 | 23 13 | 23 7 | 11 7 | 11 57 | 1 11 |
| S 19 | 19 40 | 4n27 | 4 58 | 12 6 | 2 17 | 2 47 | 1 41 | 0 43 | 1 24 | 4 33 | 1 10 | 7 15 | 1 51 | 12 12 | 0 30 | 12 25 | 0 42 | 22 48 | 0 47 | 23 13 | 23 7 | 11 9 | 11 56 | 1 11 |
| M20 | 19 53 | 8 57 | 4 36 | 12 32 | 2 13 | 3 8 | 1 45 | 0 57 | 1 24 | 4 38 | 1 11 | 7 14 | 1 51 | 12 11 | 0 30 | 12 25 | 0 42 | 22 49 | 0 47 | 23 14 | 23 8 | 11 12 | 11 55 | 1 11 |
| T 21 | 20 7 | 13 6 | 4 1 | 13 0 | 2 8 | 3 28 | 1 49 | 1 12 | 1 24 | 4 42 | 1 11 | 7 13 | 1 51 | 12 10 | 0 30 | 12 24 | 0 42 | 22 49 | 0 47 | 23 14 | 23 8 | 11 14 | 11 54 | 1 11 |
| W22 | 20 20 | 16 46 | 3 16 | 13 28 | 2 3 | 3 49 | 1 52 | 1 26 | 1 24 | 4 46 | 1 11 | 7 12 | 1 51 | 12 10 | 0 30 | 12 24 | 0 42 | 22 49 | 0 47 | 23 14 | 23 8 | 11 17 | 11 53 | 1 11 |
| T 23 | 20 32 | 19 47 | 2 21 | 13 57 | 1 58 | 4 10 | 1 56 | 1 40 | 1 24 | 4 50 | 1 11 | 7 10 | 1 52 | 12 9 | 0 30 | 12 24 | 0 42 | 22 49 | 0 47 | 23 15 | 23 8 | 11 19 | 11 52 | 1 11 |
| F 24 | 20 44 | 21 57 | 1 20 | 14 27 | 1 52 | 4 31 | 1 59 | 1 54 | 1 25 | 4 54 | 1 11 | 7 9 | 1 52 | 12 8 | 0 30 | 12 24 | 0 42 | 22 49 | 0 47 | 23 15 | 23 9 | 11 22 | 11 51 | 1 12 |
| S 25 | 20 56 | 23 8 | 0 15 | 14 57 | 1 46 | 4 53 | 2 2 | 2 8 | 1 25 | 4 58 | 1 11 | 7 8 | 1 52 | 12 8 | 0 30 | 12 24 | 0 42 | 22 50 | 0 47 | 23 15 | 23 9 | 11 24 | 11 50 | 1 12 |
| S 26 | 21 7 | 23 13 | 0n52 | 15 27 | 1 39 | 5 14 | 2 5 | 2 22 | 1 25 | 5 2 | 1 11 | 7 7 | 1 52 | 12 7 | 0 30 | 12 24 | 0 42 | 22 50 | 0 47 | 23 15 | 23 9 | 11 26 | 11 49 | 1 12 |
| M27 | 21 18 | 22 9 | 1 57 | 15 58 | 1 32 | 5 36 | 2 8 | 2 36 | 1 25 | 5 6 | 1 12 | 7 6 | 1 53 | 12 6 | 0 30 | 12 23 | 0 42 | 22 50 | 0 47 | 23 15 | 23 9 | 11 29 | 11 48 | 1 12 |
| T 28 | 21 28 | 19 57 | 2 59 | 16 28 | 1 26 | 5 57 | 2 11 | 2 50 | 1 25 | 5 9 | 1 12 | 7 5 | 1 53 | 12 6 | 0 30 | 12 23 | 0 42 | 22 50 | 0 47 | 23 15 | 23 10 | 11 31 | 11 47 | 1 12 |
| W29 | 21 38 | 16 41 | 3 52 | 16 57 | 1 19 | 6 19 | 2 14 | 3 4 | 1 25 | 5 13 | 1 12 | 7 4 | 1 53 | 12 5 | 0 30 | 12 23 | 0 42 | 22 50 | 0 47 | 23 15 | 23 10 | 11 34 | 11 47 | 1 12 |
| T 30 | 21s48 | 12n30 | 4n35 | 17s27 | 1n12 | 6s41 | 2n16 | 3s18 | 1n25 | 5s17 | 1n12 | 7n 3 | 1n53 | 12n 4 | 0s29 | 12s23 | 0s42 | 22n51 | 0n47 | 23n15 | 23n10 | 11n36 | 11n46 | 1s12 |

Julian Day Number = 2336433.5, Delta T = 21.00 sec
Ecliptic obliquity = 23°28'47, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'27, Lahiri = 19°27'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1684
# geocentric

## DECEMBER 1684 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 42 44 | 9♐47'44 | 22♍35 | 24♏40 | 23♎39 | 12♎13 | 16♎24 | 16♍36 | 2°R59 | 29♒21 | 19°R28 | 7°R52 | 9♋ 4 | 12♉52 | 4°R 0 | F 1 |
| S 2 | 4 46 40 | 10°48'41 | 6♎44 | 26°10 | 24°45 | 12°49 | 16°33 | 16°39 | 2♉57 | 29°21 | 19♋27 | 7♋51 | 9° 0 | 12°59 | 3♉58 | S 2 |
| S 3 | 4 50 37 | 11°49'40 | 21°15 | 27°40 | 25°51 | 13°25 | 16°43 | 16°42 | 2°55 | 29°22 | 19°26 | 7°48 | 8°57 | 13° 6 | 3°56 | S 3 |
| M 4 | 4 54 33 | 12°50'40 | 6♏ 5 | 29°11 | 26°57 | 14° 0 | 16°53 | 16°44 | 2°53 | 29°23 | 19°25 | 7°44 | 8°54 | 13°12 | 3°53 | M 4 |
| T 5 | 4 58 30 | 13°51'41 | 21° 7 | 0♐42 | 28° 3 | 14°36 | 17° 3 | 16°47 | 2°52 | 29°24 | 19°24 | 7°40 | 8°51 | 13°19 | 3°51 | T 5 |
| W 6 | 5 2 27 | 14°52'44 | 6♐13 | 2°13 | 29°10 | 15°11 | 17°12 | 16°49 | 2°50 | 29°25 | 19°23 | 7°38 | 8°48 | 13°26 | 3°49 | W 6 |
| T 7 | 5 6 23 | 15°53'47 | 21°12 | 3°45 | 0♏17 | 15°47 | 17°22 | 16°51 | 2°48 | 29°26 | 19°22 | 7°36 | 8°44 | 13°32 | 3°47 | T 7 |
| F 8 | 5 10 20 | 16°54'51 | 5♑56 | 5°17 | 1°24 | 16°22 | 17°31 | 16°53 | 2°47 | 29°27 | 19°21 | 7°D35 | 8°41 | 13°39 | 3°45 | F 8 |
| S 9 | 5 14 16 | 17°55'55 | 20°19 | 6°49 | 2°31 | 16°57 | 17°40 | 16°55 | 2°45 | 29°28 | 19°20 | 7°35 | 8°38 | 13°46 | 3°43 | S 9 |
| S 10 | 5 18 13 | 18°57'00 | 4♒17 | 8°21 | 3°39 | 17°33 | 17°50 | 16°57 | 2°44 | 29°29 | 19°19 | 7°37 | 8°35 | 13°52 | 3°41 | S 10 |
| M11 | 5 22 9 | 19°58'06 | 17°47 | 9°53 | 4°47 | 18° 8 | 17°59 | 16°59 | 2°42 | 29°30 | 19°18 | 7°38 | 8°32 | 13°59 | 3°39 | M11 |
| T 12 | 5 26 6 | 20°59'12 | 0♓52 | 11°26 | 5°55 | 18°43 | 18° 7 | 17° 1 | 2°41 | 29°31 | 19°17 | 7°39 | 8°29 | 14° 6 | 3°37 | T 12 |
| W13 | 5 30 3 | 22° 0'18 | 13°34 | 12°59 | 7° 3 | 19°18 | 18°16 | 17° 2 | 2°40 | 29°32 | 19°16 | 7°40 | 8°25 | 14°13 | 3°36 | W13 |
| T 14 | 5 33 59 | 23° 1'24 | 25°56 | 14°31 | 8°11 | 19°53 | 18°25 | 17° 4 | 2°38 | 29°33 | 19°15 | 7°R40 | 8°22 | 14°19 | 3°34 | T 14 |
| F 15 | 5 37 56 | 24° 2'31 | 8♈ 4 | 16° 4 | 9°20 | 20°28 | 18°33 | 17° 5 | 2°37 | 29°34 | 19°14 | 7°40 | 8°19 | 14°26 | 3°32 | F 15 |
| S 16 | 5 41 52 | 25° 3'38 | 20° 2 | 17°38 | 10°28 | 21° 3 | 18°42 | 17° 6 | 2°36 | 29°35 | 19°12 | 7°39 | 8°16 | 14°33 | 3°31 | S 16 |
| S 17 | 5 45 49 | 26° 4'45 | 1♉54 | 19°11 | 11°37 | 21°38 | 18°50 | 17° 7 | 2°35 | 29°36 | 19°11 | 7°37 | 8°13 | 14°39 | 3°29 | S 17 |
| M18 | 5 49 45 | 27° 5'52 | 13°44 | 20°45 | 12°46 | 22°13 | 18°58 | 17° 8 | 2°33 | 29°38 | 19°10 | 7°35 | 8°10 | 14°46 | 3°27 | M18 |
| T 19 | 5 53 42 | 28° 7'00 | 25°36 | 22°19 | 13°55 | 22°48 | 19° 6 | 17° 9 | 2°32 | 29°39 | 19° 9 | 7°34 | 8° 6 | 14°53 | 3°26 | T 19 |
| W20 | 5 57 38 | 29° 8'08 | 7♊33 | 23°53 | 15° 5 | 23°22 | 19°14 | 17°10 | 2°31 | 29°40 | 19° 8 | 7°33 | 8° 3 | 14°59 | 3°25 | W20 |
| T 21 | 6 1 35 | 0♑ 9'16 | 19°36 | 25°27 | 16°14 | 23°57 | 19°22 | 17°11 | 2°30 | 29°42 | 19° 6 | 7°32 | 8° 0 | 15° 6 | 3°23 | T 21 |
| F 22 | 6 5 32 | 1°10'24 | 1♋48 | 27° 1 | 17°24 | 24°32 | 19°30 | 17°11 | 2°29 | 29°43 | 19° 5 | 7°D31 | 7°57 | 15°13 | 3°22 | F 22 |
| S 23 | 6 9 28 | 2°11'33 | 14°10 | 28°36 | 18°34 | 25° 6 | 19°37 | 17°12 | 2°28 | 29°44 | 19° 4 | 7°31 | 7°54 | 15°19 | 3°21 | S 23 |
| S 24 | 6 13 25 | 3°12'42 | 26°44 | 0♑11 | 19°44 | 25°41 | 19°45 | 17°12 | 2°27 | 29°46 | 19° 3 | 7°32 | 7°50 | 15°26 | 3°20 | S 24 |
| M25 | 6 17 21 | 4°13'51 | 9♌30 | 1°47 | 20°54 | 26°15 | 19°52 | 17°12 | 2°27 | 29°47 | 19° 2 | 7°32 | 7°47 | 15°33 | 3°18 | M25 |
| T 26 | 6 21 18 | 5°15'00 | 22°29 | 3°22 | 22° 4 | 26°50 | 19°59 | 17°12 | 2°26 | 29°49 | 19° 0 | 7°32 | 7°44 | 15°40 | 3°17 | T 26 |
| W27 | 6 25 14 | 6°16'10 | 5♍42 | 4°58 | 23°14 | 27°24 | 20° 6 | 17°R12 | 2°25 | 29°50 | 18°59 | 7°33 | 7°41 | 15°46 | 3°16 | W27 |
| T 28 | 6 29 11 | 7°17'20 | 19°10 | 6°35 | 24°25 | 27°58 | 20°13 | 17°12 | 2°24 | 29°52 | 18°58 | 7°R33 | 7°38 | 15°53 | 3°15 | T 28 |
| F 29 | 6 33 7 | 8°18'30 | 2♎54 | 8°11 | 25°35 | 28°32 | 20°20 | 17°12 | 2°24 | 29°53 | 18°57 | 7°D33 | 7°35 | 16° 0 | 3°15 | F 29 |
| S 30 | 6 37 4 | 9°19'40 | 16°53 | 9°48 | 26°46 | 29° 7 | 20°26 | 17°12 | 2°23 | 29°55 | 18°55 | 7°33 | 7°31 | 16° 6 | 3°14 | S 30 |
| S 31 | 6 41 1 | 10♑20'51 | 1♏ 7 | 11♑26 | 27♏57 | 29♎41 | 20♎33 | 17♍11 | 2♉23 | 29♒57 | 18♋54 | 7♋33 | 7♋28 | 16♉13 | 3♉13 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s57 | 7n35 | 5n 3 | 17s56 | 1n 4 | 7s 3 | 2n18 | 3s32 | 1n25 | 5s21 | 1n12 | 7n 2 | 1n54 | 12n 4 | 0s29 | 12s22 | 0s42 | 22n51 | 0n48 | 23n15 | 23n10 | 11n39 | 11n45 | 1s12 |
| S 2 | 22 6 | 2 8 | 5 14 | 18 24 | 0 57 | 7 25 | 2 21 | 3 46 | 1 25 | 5 24 | 1 12 | 7 2 | 1 54 | 12 3 | 0 29 | 12 22 | 0 42 | 22 51 | 0 48 | 23 15 | 23 10 | 11 41 | 11 44 | 1 12 |
| S 3 | 22 15 | 3s35 | 5 5 | 18 52 | 0 50 | 7 47 | 2 23 | 4 0 | 1 25 | 5 28 | 1 13 | 7 1 | 1 54 | 12 3 | 0 29 | 12 22 | 0 42 | 22 51 | 0 48 | 23 15 | 23 11 | 11 44 | 11 43 | 1 12 |
| M 4 | 22 23 | 9 13 | 4 37 | 19 19 | 0 43 | 8 9 | 2 24 | 4 13 | 1 25 | 5 32 | 1 13 | 7 0 | 1 54 | 12 2 | 0 29 | 12 22 | 0 42 | 22 52 | 0 48 | 23 15 | 23 11 | 11 46 | 11 42 | 1 12 |
| T 5 | 22 30 | 14 24 | 3 48 | 19 45 | 0 35 | 8 32 | 2 26 | 4 27 | 1 25 | 5 35 | 1 13 | 6 59 | 1 55 | 12 2 | 0 29 | 12 21 | 0 42 | 22 52 | 0 48 | 23 15 | 23 11 | 11 49 | 11 42 | 1 12 |
| W 6 | 22 37 | 18 41 | 2 44 | 20 11 | 0 28 | 8 54 | 2 28 | 4 41 | 1 25 | 5 39 | 1 13 | 6 59 | 1 55 | 12 1 | 0 29 | 12 21 | 0 42 | 22 52 | 0 48 | 23 16 | 23 11 | 11 51 | 11 41 | 1 12 |
| T 7 | 22 44 | 21 42 | 1 29 | 20 36 | 0 21 | 9 16 | 2 29 | 4 54 | 1 25 | 5 42 | 1 13 | 6 58 | 1 55 | 12 0 | 0 29 | 12 21 | 0 42 | 22 52 | 0 48 | 23 16 | 23 11 | 11 54 | 11 40 | 1 12 |
| F 8 | 22 50 | 23 12 | 0 9 | 21 0 | 0 14 | 9 38 | 2 30 | 5 8 | 1 25 | 5 46 | 1 13 | 6 57 | 1 55 | 12 0 | 0 29 | 12 20 | 0 42 | 22 52 | 0 48 | 23 16 | 23 12 | 11 56 | 11 39 | 1 12 |
| S 9 | 22 56 | 23 5 | 1s10 | 21 23 | 0 7 | 10 0 | 2 31 | 5 21 | 1 25 | 5 49 | 1 14 | 6 57 | 1 56 | 11 59 | 0 29 | 12 20 | 0 42 | 22 53 | 0 48 | 23 16 | 23 12 | 11 58 | 11 39 | 1 12 |
| S 10 | 23 1 | 21 31 | 2 22 | 21 45 | 0s 1 | 10 22 | 2 32 | 5 35 | 1 25 | 5 52 | 1 14 | 6 56 | 1 56 | 11 59 | 0 29 | 12 20 | 0 42 | 22 53 | 0 48 | 23 16 | 23 12 | 12 1 | 11 38 | 1 12 |
| M11 | 23 6 | 18 46 | 3 24 | 22 6 | 0 7 | 10 44 | 2 33 | 5 48 | 1 25 | 5 56 | 1 14 | 6 56 | 1 56 | 11 58 | 0 29 | 12 19 | 0 42 | 22 53 | 0 48 | 23 16 | 23 12 | 12 3 | 11 37 | 1 12 |
| T 12 | 23 10 | 15 8 | 4 14 | 22 26 | 0 14 | 11 6 | 2 34 | 6 2 | 1 25 | 5 59 | 1 14 | 6 56 | 1 57 | 11 58 | 0 29 | 12 19 | 0 42 | 22 53 | 0 48 | 23 15 | 23 12 | 12 6 | 11 37 | 1 12 |
| W13 | 23 14 | 10 55 | 4 49 | 22 45 | 0 21 | 11 27 | 2 34 | 6 15 | 1 25 | 6 2 | 1 14 | 6 55 | 1 57 | 11 58 | 0 29 | 12 18 | 0 42 | 22 54 | 0 48 | 23 15 | 23 13 | 12 8 | 11 36 | 1 12 |
| T 14 | 23 18 | 6 21 | 5 10 | 23 2 | 0 28 | 11 49 | 2 35 | 6 28 | 1 25 | 6 5 | 1 14 | 6 55 | 1 57 | 11 57 | 0 29 | 12 18 | 0 42 | 22 54 | 0 49 | 23 15 | 23 13 | 12 11 | 11 35 | 1 12 |
| F 15 | 23 21 | 1 38 | 5 16 | 23 19 | 0 34 | 12 10 | 2 35 | 6 41 | 1 26 | 6 8 | 1 15 | 6 55 | 1 57 | 11 57 | 0 29 | 12 18 | 0 42 | 22 54 | 0 49 | 23 15 | 23 13 | 12 13 | 11 35 | 1 12 |
| S 16 | 23 23 | 3n 4 | 5 9 | 23 35 | 0 41 | 12 32 | 2 35 | 6 54 | 1 26 | 6 11 | 1 15 | 6 54 | 1 58 | 11 56 | 0 29 | 12 17 | 0 42 | 22 54 | 0 49 | 23 16 | 23 13 | 12 16 | 11 34 | 1 12 |
| S 17 | 23 25 | 7 38 | 4 49 | 23 49 | 0 47 | 12 53 | 2 36 | 7 7 | 1 26 | 6 14 | 1 15 | 6 54 | 1 58 | 11 56 | 0 29 | 12 17 | 0 42 | 22 55 | 0 49 | 23 16 | 23 13 | 12 18 | 11 34 | 1 12 |
| M18 | 23 27 | 11 55 | 4 16 | 24 2 | 0 53 | 13 14 | 2 36 | 7 20 | 1 26 | 6 17 | 1 15 | 6 54 | 1 58 | 11 56 | 0 29 | 12 16 | 0 42 | 22 55 | 0 49 | 23 16 | 23 14 | 12 20 | 11 33 | 1 13 |
| T 19 | 23 28 | 15 46 | 3 32 | 24 14 | 0 59 | 13 34 | 2 35 | 7 33 | 1 26 | 6 20 | 1 15 | 6 54 | 1 58 | 11 55 | 0 29 | 12 16 | 0 42 | 22 55 | 0 49 | 23 16 | 23 14 | 12 23 | 11 33 | 1 13 |
| W20 | 23 29 | 19 0 | 2 39 | 24 25 | 1 5 | 13 55 | 2 35 | 7 46 | 1 26 | 6 23 | 1 16 | 6 54 | 1 59 | 11 55 | 0 29 | 12 15 | 0 42 | 22 55 | 0 49 | 23 16 | 23 14 | 12 25 | 11 32 | 1 13 |
| T 21 | 23 29 | 21 27 | 1 38 | 24 34 | 1 10 | 14 15 | 2 35 | 7 59 | 1 25 | 6 25 | 1 16 | 6 54 | 1 59 | 11 55 | 0 29 | 12 15 | 0 42 | 22 56 | 0 49 | 23 16 | 23 14 | 12 28 | 11 32 | 1 13 |
| F 22 | 23 28 | 22 56 | 0 32 | 24 42 | 1 15 | 14 35 | 2 34 | 8 12 | 1 25 | 6 28 | 1 16 | 6 54 | 1 59 | 11 54 | 0 29 | 12 14 | 0 42 | 22 56 | 0 49 | 23 16 | 23 14 | 12 30 | 11 31 | 1 13 |
| S 23 | 23 28 | 23 20 | 0n37 | 24 49 | 1 21 | 14 55 | 2 34 | 8 24 | 1 25 | 6 31 | 1 16 | 6 54 | 2 0 | 11 54 | 0 29 | 12 14 | 0 42 | 22 56 | 0 49 | 23 16 | 23 15 | 12 33 | 11 31 | 1 13 |
| S 24 | 23 26 | 22 33 | 1 45 | 24 54 | 1 26 | 15 15 | 2 33 | 8 37 | 1 25 | 6 33 | 1 16 | 6 54 | 2 0 | 11 54 | 0 29 | 12 13 | 0 42 | 22 56 | 0 49 | 23 16 | 23 15 | 12 35 | 11 30 | 1 13 |
| M25 | 23 25 | 20 37 | 2 48 | 24 58 | 1 30 | 15 34 | 2 32 | 8 49 | 1 25 | 6 36 | 1 17 | 6 54 | 2 0 | 11 53 | 0 29 | 12 13 | 0 41 | 22 56 | 0 49 | 23 16 | 23 15 | 12 37 | 11 30 | 1 13 |
| T 26 | 23 23 | 17 35 | 3 45 | 25 1 | 1 35 | 15 53 | 2 31 | 9 2 | 1 25 | 6 39 | 1 17 | 6 55 | 2 0 | 11 53 | 0 29 | 12 12 | 0 41 | 22 57 | 0 49 | 23 16 | 23 15 | 12 40 | 11 30 | 1 13 |
| W27 | 23 20 | 13 37 | 4 30 | 25 2 | 1 39 | 16 12 | 2 30 | 9 14 | 1 25 | 6 41 | 1 17 | 6 55 | 2 1 | 11 53 | 0 29 | 12 12 | 0 41 | 22 57 | 0 50 | 23 16 | 23 15 | 12 42 | 11 29 | 1 13 |
| T 28 | 23 17 | 8 55 | 5 1 | 25 2 | 1 43 | 16 30 | 2 29 | 9 27 | 1 25 | 6 43 | 1 17 | 6 55 | 2 1 | 11 53 | 0 29 | 12 11 | 0 41 | 22 57 | 0 50 | 23 16 | 23 16 | 12 45 | 11 29 | 1 13 |
| F 29 | 23 13 | 3 41 | 5 16 | 25 0 | 1 47 | 16 48 | 2 28 | 9 39 | 1 25 | 6 46 | 1 17 | 6 55 | 2 1 | 11 53 | 0 29 | 12 11 | 0 41 | 22 57 | 0 50 | 23 16 | 23 16 | 12 47 | 11 29 | 1 13 |
| S 30 | 23 9 | 1s49 | 5 13 | 24 57 | 1 50 | 17 6 | 2 26 | 9 51 | 1 25 | 6 48 | 1 18 | 6 56 | 2 1 | 11 52 | 0 29 | 12 10 | 0 41 | 22 58 | 0 50 | 23 16 | 23 16 | 12 50 | 11 28 | 1 13 |
| S 31 | 23s 5 | 7s20 | 4n51 | 24s52 | 1s53 | 17s23 | 2n25 | 10s 3 | 1n25 | 6s50 | 1n18 | 6n56 | 2n 2 | 11n52 | 0s29 | 12s 9 | 0s41 | 22n58 | 0n50 | 23n16 | 23n16 | 12n52 | 11n28 | 1s13 |

Julian Day Number = 2336463.5, Delta T = 20.96 sec
Ecliptic obliquity = 23°28'47, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'32, Lahiri = 19°27'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## JANUARY 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 44 57 | 11♑22'02 | 15♏33 | 13♑ 3 | 29♏ 8 | 0♏15 | 20♎39 | 17°R11 | 2°R22 | 29♒58 | 18°R53 | 7♋33 | 7♋25 | 16♉20 | 3°R12 | M 1 |
| T 2 | 6 48 54 | 12°23'13 | 0♐ 8 | 14°42 | 0♐19 | 0°49 | 20°45 | 17♍10 | 2♉22 | 29°59 | 18♋51 | 7°33 | 7°22 | 16°26 | 3♉12 | T 2 |
| W 3 | 6 52 50 | 13°24'24 | 14°47 | 16°20 | 1°30 | 1°22 | 20°51 | 17°10 | 2°21 | 0♓ 2 | 18°50 | 7°34 | 7°19 | 16°33 | 3°11 | W 3 |
| T 4 | 6 56 47 | 14°25'35 | 29°24 | 17°59 | 2°41 | 1°56 | 20°57 | 17° 9 | 2°21 | 0° 3 | 18°49 | 7°34 | 7°16 | 16°40 | 3°11 | T 4 |
| F 5 | 7 0 43 | 15°26'47 | 13♑52 | 19°39 | 3°52 | 2°30 | 21° 2 | 17° 8 | 2°21 | 0° 5 | 18°48 | 7°R34 | 7°12 | 16°47 | 3°10 | F 5 |
| S 6 | 7 4 40 | 16°27'57 | 28° 6 | 21°19 | 5° 4 | 3° 3 | 21° 8 | 17° 7 | 2°21 | 0° 7 | 18°46 | 7°34 | 7° 9 | 16°53 | 3°10 | S 6 |
| S 7 | 7 8 37 | 17°29'07 | 12♒ 1 | 22°59 | 6°15 | 3°37 | 21°13 | 17° 5 | 2°20 | 0° 9 | 18°45 | 7°33 | 7° 6 | 17° 0 | 3° 9 | S 7 |
| M 8 | 7 12 33 | 18°30'17 | 25°33 | 24°39 | 7°27 | 4°10 | 21°18 | 17° 4 | 2°20 | 0°10 | 18°44 | 7°32 | 7° 3 | 17° 7 | 3° 9 | M 8 |
| T 9 | 7 16 30 | 19°31'26 | 8♓43 | 26°20 | 8°38 | 4°44 | 21°23 | 17° 3 | 2°20 | 0°12 | 18°42 | 7°30 | 7° 0 | 17°13 | 3° 9 | T 9 |
| W10 | 7 20 26 | 20°32'34 | 21°30 | 28° 1 | 9°50 | 5°17 | 21°28 | 17° 1 | 2°D20 | 0°14 | 18°41 | 7°28 | 6°56 | 17°20 | 3° 9 | W10 |
| T 11 | 7 24 23 | 21°33'42 | 3♈57 | 29°43 | 11° 2 | 5°50 | 21°33 | 17° 0 | 2°20 | 0°16 | 18°40 | 7°27 | 6°53 | 17°27 | 3° 9 | T 11 |
| F 12 | 7 28 19 | 22°34'49 | 16° 8 | 1♒25 | 12°14 | 6°23 | 21°37 | 16°58 | 2°20 | 0°18 | 18°38 | 7°26 | 6°50 | 17°33 | 3°D 9 | F 12 |
| S 13 | 7 32 16 | 23°35'55 | 28° 7 | 3° 7 | 13°26 | 6°56 | 21°42 | 16°56 | 2°21 | 0°20 | 18°37 | 7°D26 | 6°47 | 17°40 | 3° 9 | S 13 |
| S 14 | 7 36 12 | 24°37'00 | 10♉ 0 | 4°49 | 14°38 | 7°29 | 21°46 | 16°54 | 2°21 | 0°22 | 18°36 | 7°27 | 6°44 | 17°47 | 3° 9 | S 14 |
| M15 | 7 40 9 | 25°38'04 | 21°50 | 6°31 | 15°50 | 8° 2 | 21°50 | 16°52 | 2°21 | 0°24 | 18°35 | 7°28 | 6°41 | 17°53 | 3° 9 | M15 |
| T 16 | 7 44 5 | 26°39'08 | 3♊42 | 8°12 | 17° 2 | 8°35 | 21°54 | 16°50 | 2°21 | 0°25 | 18°33 | 7°30 | 6°37 | 18° 0 | 3° 9 | T 16 |
| W17 | 7 48 2 | 27°40'10 | 15°42 | 9°54 | 18°14 | 9° 7 | 21°57 | 16°48 | 2°22 | 0°27 | 18°32 | 7°31 | 6°34 | 18° 7 | 3°10 | W17 |
| T 18 | 7 51 59 | 28°41'12 | 27°52 | 11°35 | 19°26 | 9°40 | 22° 1 | 16°46 | 2°22 | 0°29 | 18°31 | 7°32 | 6°31 | 18°13 | 3°10 | T 18 |
| F 19 | 7 55 55 | 29°42'12 | 10♋15 | 13°15 | 20°38 | 10°12 | 22° 4 | 16°43 | 2°23 | 0°31 | 18°29 | 7°R33 | 6°28 | 18°20 | 3°11 | F 19 |
| S 20 | 7 59 52 | 0♒43'12 | 22°53 | 14°55 | 21°51 | 10°45 | 22° 7 | 16°41 | 2°23 | 0°33 | 18°28 | 7°32 | 6°25 | 18°27 | 3°11 | S 20 |
| S 21 | 8 3 48 | 1°44'11 | 5♌47 | 16°33 | 23° 3 | 11°17 | 22°10 | 16°38 | 2°24 | 0°36 | 18°27 | 7°30 | 6°22 | 18°34 | 3°12 | S 21 |
| M22 | 8 7 45 | 2°45'09 | 18°57 | 18°10 | 24°16 | 11°49 | 22°13 | 16°35 | 2°24 | 0°38 | 18°26 | 7°27 | 6°18 | 18°40 | 3°12 | M22 |
| T 23 | 8 11 41 | 3°46'06 | 2♍21 | 19°44 | 25°28 | 12°21 | 22°15 | 16°33 | 2°25 | 0°40 | 18°24 | 7°23 | 6°15 | 18°47 | 3°13 | T 23 |
| W24 | 8 15 38 | 4°47'02 | 15°59 | 21°17 | 26°41 | 12°53 | 22°18 | 16°30 | 2°26 | 0°42 | 18°23 | 7°18 | 6°12 | 18°54 | 3°14 | W24 |
| T 25 | 8 19 35 | 5°47'58 | 29°47 | 22°46 | 27°53 | 13°25 | 22°20 | 16°27 | 2°27 | 0°44 | 18°22 | 7°14 | 6° 9 | 19° 0 | 3°15 | T 25 |
| F 26 | 8 23 31 | 6°48'52 | 13♎44 | 24°12 | 29° 6 | 13°57 | 22°22 | 16°24 | 2°27 | 0°46 | 18°21 | 7°11 | 6° 6 | 19° 7 | 3°15 | F 26 |
| S 27 | 8 27 28 | 7°49'46 | 27°47 | 25°34 | 0♑19 | 14°28 | 22°24 | 16°21 | 2°28 | 0°48 | 18°19 | 7° 9 | 6° 2 | 19°14 | 3°16 | S 27 |
| S 28 | 8 31 24 | 8°50'39 | 11♏54 | 26°51 | 1°31 | 15° 0 | 22°25 | 16°17 | 2°29 | 0°50 | 18°18 | 7°D 9 | 5°59 | 19°20 | 3°17 | S 28 |
| M29 | 8 35 21 | 9°51'32 | 26° 5 | 28° 3 | 2°44 | 15°31 | 22°27 | 16°14 | 2°30 | 0°52 | 18°17 | 7°10 | 5°56 | 19°27 | 3°18 | M29 |
| T 30 | 8 39 17 | 10°52'23 | 10♐16 | 29° 8 | 3°57 | 16° 2 | 22°28 | 16°11 | 2°31 | 0°55 | 18°16 | 7°11 | 5°53 | 19°34 | 3°20 | T 30 |
| W31 | 8 43 14 | 11♒53'14 | 24♐27 | 0♓ 7 | 5♑10 | 16♏33 | 22♎29 | 16♍ 7 | 2♉32 | 0♓57 | 18♋15 | 7♋13 | 5♋50 | 19♉40 | 3♉21 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23s 0 | 12s32 | 4n10 | 24s46 | 1s56 | 17s40 | 2n23 | 10s15 | 1n25 | 6s52 | 1n18 | 6n57 | 2n 2 | 11n52 | 0s29 | 12s 9 | 0s41 | 22n58 | 0n50 | 23n16 | 23n16 | 12n54 | 11n28 | 1s13 |
| T 2 | 22 54 | 17 4 | 3 13 | 24 38 | 1 59 | 17 56 | 2 22 | 10 27 | 1 25 | 6 54 | 1 18 | 6 57 | 2 2 | 11 52 | 0 29 | 12 8 | 0 41 | 22 58 | 0 50 | 23 16 | 23 16 | 12 57 | 11 27 | 1 13 |
| W 3 | 22 48 | 20 34 | 2 3 | 24 29 | 2 1 | 18 13 | 2 20 | 10 39 | 1 25 | 6 56 | 1 19 | 6 58 | 2 3 | 11 52 | 0 29 | 12 8 | 0 41 | 22 59 | 0 50 | 23 16 | 23 17 | 12 59 | 11 27 | 1 13 |
| T 4 | 22 42 | 22 43 | 0 45 | 24 18 | 2 3 | 18 28 | 2 18 | 10 50 | 1 25 | 6 58 | 1 19 | 6 58 | 2 3 | 11 52 | 0 28 | 12 7 | 0 41 | 22 59 | 0 50 | 23 16 | 23 17 | 13 2 | 11 27 | 1 13 |
| F 5 | 22 35 | 23 20 | 0s35 | 24 5 | 2 4 | 18 44 | 2 16 | 11 2 | 1 25 | 7 0 | 1 19 | 6 59 | 2 3 | 11 52 | 0 28 | 12 6 | 0 41 | 22 59 | 0 50 | 23 16 | 23 17 | 13 4 | 11 27 | 1 13 |
| S 6 | 22 28 | 22 24 | 1 51 | 23 51 | 2 5 | 18 58 | 2 14 | 11 14 | 1 25 | 7 2 | 1 19 | 7 0 | 2 3 | 11 52 | 0 28 | 12 6 | 0 41 | 22 59 | 0 50 | 23 16 | 23 17 | 13 7 | 11 27 | 1 13 |
| S 7 | 22 20 | 20 6 | 3 0 | 23 35 | 2 6 | 19 13 | 2 12 | 11 25 | 1 25 | 7 4 | 1 19 | 7 0 | 2 4 | 11 52 | 0 28 | 12 5 | 0 41 | 23 0 | 0 50 | 23 16 | 23 17 | 13 9 | 11 27 | 1 13 |
| M 8 | 22 12 | 16 43 | 3 56 | 23 18 | 2 6 | 19 27 | 2 10 | 11 36 | 1 24 | 7 6 | 1 20 | 7 1 | 2 4 | 11 52 | 0 28 | 12 5 | 0 41 | 23 0 | 0 50 | 23 16 | 23 18 | 13 11 | 11 27 | 1 13 |
| T 9 | 22 3 | 12 36 | 4 38 | 22 59 | 2 6 | 19 40 | 2 8 | 11 48 | 1 24 | 7 7 | 1 20 | 7 2 | 2 4 | 11 52 | 0 28 | 12 4 | 0 41 | 23 0 | 0 50 | 23 16 | 23 18 | 13 14 | 11 26 | 1 13 |
| W10 | 21 54 | 8 2 | 5 4 | 22 38 | 2 6 | 19 53 | 2 6 | 11 59 | 1 24 | 7 9 | 1 20 | 7 3 | 2 4 | 11 52 | 0 28 | 12 3 | 0 41 | 23 0 | 0 50 | 23 16 | 23 18 | 13 16 | 11 26 | 1 13 |
| T 11 | 21 45 | 3 15 | 5 16 | 22 16 | 2 4 | 20 6 | 2 4 | 12 10 | 1 24 | 7 10 | 1 20 | 7 3 | 2 5 | 11 52 | 0 28 | 12 3 | 0 41 | 23 1 | 0 51 | 23 16 | 23 18 | 13 19 | 11 26 | 1 13 |
| F 12 | 21 35 | 1n33 | 5 13 | 21 52 | 2 3 | 20 18 | 2 1 | 12 21 | 1 24 | 7 12 | 1 21 | 7 4 | 2 5 | 11 52 | 0 28 | 12 2 | 0 41 | 23 1 | 0 51 | 23 16 | 23 18 | 13 21 | 11 26 | 1 13 |
| S 13 | 21 25 | 6 13 | 4 56 | 21 27 | 2 1 | 20 29 | 1 59 | 12 32 | 1 24 | 7 13 | 1 21 | 7 5 | 2 5 | 11 52 | 0 28 | 12 1 | 0 41 | 23 1 | 0 51 | 23 16 | 23 18 | 13 23 | 11 26 | 1 13 |
| S 14 | 21 14 | 10 37 | 4 27 | 21 0 | 1 58 | 20 40 | 1 56 | 12 43 | 1 24 | 7 15 | 1 21 | 7 6 | 2 5 | 11 52 | 0 28 | 12 1 | 0 41 | 23 1 | 0 51 | 23 16 | 23 19 | 13 26 | 11 26 | 1 13 |
| M15 | 21 3 | 14 36 | 3 46 | 20 31 | 1 55 | 20 50 | 1 54 | 12 53 | 1 24 | 7 16 | 1 21 | 7 7 | 2 6 | 11 52 | 0 28 | 12 0 | 0 41 | 23 2 | 0 51 | 23 16 | 23 19 | 13 28 | 11 26 | 1 13 |
| T 16 | 20 52 | 18 3 | 2 56 | 20 1 | 1 51 | 21 0 | 1 51 | 13 4 | 1 23 | 7 17 | 1 22 | 7 8 | 2 6 | 11 52 | 0 28 | 11 59 | 0 41 | 23 2 | 0 51 | 23 16 | 23 19 | 13 31 | 11 27 | 1 13 |
| W17 | 20 40 | 20 46 | 1 58 | 19 30 | 1 46 | 21 9 | 1 48 | 13 15 | 1 23 | 7 18 | 1 22 | 7 9 | 2 6 | 11 52 | 0 28 | 11 58 | 0 41 | 23 2 | 0 51 | 23 16 | 23 19 | 13 33 | 11 27 | 1 13 |
| T 18 | 20 27 | 22 35 | 0 53 | 18 57 | 1 41 | 21 18 | 1 46 | 13 25 | 1 23 | 7 19 | 1 22 | 7 11 | 2 6 | 11 53 | 0 28 | 11 58 | 0 41 | 23 2 | 0 51 | 23 16 | 23 19 | 13 35 | 11 27 | 1 13 |
| F 19 | 20 15 | 23 20 | 0n15 | 18 23 | 1 35 | 21 26 | 1 43 | 13 35 | 1 23 | 7 20 | 1 22 | 7 12 | 2 7 | 11 53 | 0 28 | 11 57 | 0 41 | 23 3 | 0 51 | 23 16 | 23 19 | 13 38 | 11 27 | 1 13 |
| S 20 | 20 2 | 22 54 | 1 23 | 17 47 | 1 28 | 21 34 | 1 40 | 13 46 | 1 23 | 7 21 | 1 22 | 7 13 | 2 7 | 11 53 | 0 28 | 11 56 | 0 41 | 23 3 | 0 51 | 23 16 | 23 19 | 13 40 | 11 27 | 1 13 |
| S 21 | 19 48 | 21 16 | 2 29 | 17 11 | 1 20 | 21 41 | 1 37 | 13 56 | 1 23 | 7 22 | 1 23 | 7 14 | 2 7 | 11 53 | 0 28 | 11 56 | 0 41 | 23 3 | 0 51 | 23 16 | 23 20 | 13 42 | 11 27 | 1 13 |
| M22 | 19 35 | 18 28 | 3 28 | 16 33 | 1 12 | 21 47 | 1 34 | 14 6 | 1 22 | 7 23 | 1 23 | 7 15 | 2 7 | 11 54 | 0 28 | 11 55 | 0 41 | 23 3 | 0 51 | 23 16 | 23 20 | 13 45 | 11 27 | 1 13 |
| T 23 | 19 21 | 14 39 | 4 17 | 15 55 | 1 3 | 21 53 | 1 31 | 14 16 | 1 22 | 7 24 | 1 23 | 7 17 | 2 8 | 11 54 | 0 28 | 11 54 | 0 41 | 23 4 | 0 51 | 23 16 | 23 20 | 13 47 | 11 28 | 1 13 |
| W24 | 19 6 | 10 1 | 4 52 | 15 16 | 0 53 | 21 58 | 1 29 | 14 26 | 1 22 | 7 24 | 1 23 | 7 18 | 2 8 | 11 54 | 0 28 | 11 53 | 0 41 | 23 4 | 0 51 | 23 17 | 23 20 | 13 50 | 11 28 | 1 13 |
| T 25 | 18 51 | 4 50 | 5 10 | 14 37 | 0 42 | 22 2 | 1 26 | 14 35 | 1 22 | 7 25 | 1 24 | 7 19 | 2 8 | 11 54 | 0 28 | 11 53 | 0 41 | 23 4 | 0 51 | 23 17 | 23 20 | 13 52 | 11 28 | 1 13 |
| F 26 | 18 36 | 0s39 | 5 11 | 13 58 | 0 31 | 22 6 | 1 22 | 14 45 | 1 22 | 7 25 | 1 24 | 7 21 | 2 8 | 11 55 | 0 28 | 11 52 | 0 41 | 23 4 | 0 51 | 23 17 | 23 20 | 13 54 | 11 28 | 1 13 |
| S 27 | 18 21 | 6 8 | 4 53 | 13 19 | 0 19 | 22 9 | 1 19 | 14 55 | 1 21 | 7 26 | 1 24 | 7 22 | 2 9 | 11 55 | 0 28 | 11 51 | 0 41 | 23 4 | 0 52 | 23 17 | 23 21 | 13 57 | 11 29 | 1 13 |
| S 28 | 18 5 | 11 21 | 4 17 | 12 40 | 0 5 | 22 12 | 1 16 | 15 4 | 1 21 | 7 26 | 1 24 | 7 24 | 2 9 | 11 55 | 0 28 | 11 50 | 0 41 | 23 5 | 0 52 | 23 17 | 23 21 | 13 59 | 11 29 | 1 13 |
| M29 | 17 49 | 15 58 | 3 26 | 12 2 | 0n 9 | 22 14 | 1 13 | 15 13 | 1 21 | 7 26 | 1 25 | 7 25 | 2 9 | 11 56 | 0 28 | 11 50 | 0 41 | 23 5 | 0 52 | 23 17 | 23 21 | 14 1 | 11 29 | 1 13 |
| T 30 | 17 32 | 19 41 | 2 22 | 11 26 | 0 23 | 22 15 | 1 10 | 15 23 | 1 21 | 7 27 | 1 25 | 7 27 | 2 9 | 11 56 | 0 28 | 11 49 | 0 41 | 23 5 | 0 52 | 23 17 | 23 21 | 14 4 | 11 30 | 1 13 |
| W31 | 17s15 | 22s13 | 1n 9 | 10s51 | 0n39 | 22s16 | 1n 7 | 15s32 | 1n20 | 7s27 | 1n25 | 7n28 | 2n 9 | 11n57 | 0s28 | 11s48 | 0s41 | 23n 5 | 0n52 | 23n17 | 23n21 | 14n 6 | 11n30 | 1s13 |

Julian Day Number = 2336494.5, Delta T = 20.91 sec
Ecliptic obliquity = 23°28'47, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'36, Lahiri = 19°27'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## FEBRUARY 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 47 10 | 12♒54'04 | 8♉34 | 0♓58 | 6♉23 | 17♏ 4 | 22♎30 | 16°R 4 | 2♉34 | 0♓59 | 18°R13 | 7°R13 | 5♋47 | 19♉47 | 3♉22 | T 1 |
| F 2 | 8 51 7 | 13°54'52 | 22°35 | 1°40 | 7°36 | 17°35 | 22°31 | 16♍ 0 | 2°35 | 1° 1 | 18♋12 | 7♋12 | 5°43 | 19°54 | 3°23 | F 2 |
| S 3 | 8 55 4 | 14°55'40 | 6♒26 | 2°13 | 8°49 | 18° 6 | 22°31 | 15°57 | 2°36 | 1° 3 | 18°11 | 7° 9 | 5°40 | 20° 0 | 3°25 | S 3 |
| S 4 | 8 59 0 | 15°56'26 | 20° 4 | 2°36 | 10° 2 | 18°36 | 22°32 | 15°53 | 2°37 | 1° 6 | 18°10 | 7° 4 | 5°37 | 20° 7 | 3°26 | S 4 |
| M 5 | 9 2 57 | 16°57'11 | 3♓26 | 2°49 | 11°15 | 19° 7 | 22°R32 | 15°49 | 2°39 | 1° 8 | 18° 9 | 6°58 | 5°34 | 20°14 | 3°28 | M 5 |
| T 6 | 9 6 53 | 17°57'54 | 16°30 | 2°R51 | 12°28 | 19°37 | 22°32 | 15°45 | 2°40 | 1°10 | 18° 8 | 6°50 | 5°31 | 20°21 | 3°29 | T 6 |
| W 7 | 9 10 50 | 18°58'36 | 29°15 | 2°42 | 13°41 | 20° 7 | 22°32 | 15°41 | 2°41 | 1°12 | 18° 7 | 6°43 | 5°28 | 20°27 | 3°31 | W 7 |
| T 8 | 9 14 46 | 19°59'16 | 11♈43 | 2°23 | 14°54 | 20°37 | 22°31 | 15°37 | 2°43 | 1°14 | 18° 6 | 6°36 | 5°24 | 20°34 | 3°32 | T 8 |
| F 9 | 9 18 43 | 20°59'55 | 23°55 | 1°54 | 16° 7 | 21° 7 | 22°31 | 15°33 | 2°44 | 1°17 | 18° 5 | 6°30 | 5°21 | 20°41 | 3°34 | F 9 |
| S 10 | 9 22 39 | 22° 0'31 | 5♉55 | 1°15 | 17°20 | 21°36 | 22°30 | 15°29 | 2°46 | 1°19 | 18° 4 | 6°27 | 5°18 | 20°47 | 3°36 | S 10 |
| S 11 | 9 26 36 | 23° 1'06 | 17°48 | 0°28 | 18°34 | 22° 6 | 22°29 | 15°25 | 2°48 | 1°21 | 18° 2 | 6°D25 | 5°15 | 20°54 | 3°38 | S 11 |
| M12 | 9 30 32 | 24° 1'40 | 29°38 | 29♒33 | 19°47 | 22°35 | 22°28 | 15°20 | 2°49 | 1°23 | 18° 1 | 6°25 | 5°12 | 21° 1 | 3°39 | M12 |
| T 13 | 9 34 29 | 25° 2'11 | 11♊30 | 28°33 | 21° 0 | 23° 4 | 22°26 | 15°16 | 2°51 | 1°26 | 18° 0 | 6°26 | 5° 8 | 21° 7 | 3°41 | T 13 |
| W14 | 9 38 26 | 26° 2'41 | 23°30 | 27°29 | 22°13 | 23°33 | 22°25 | 15°12 | 2°53 | 1°28 | 17°59 | 6°28 | 5° 5 | 21°14 | 3°43 | W14 |
| T 15 | 9 42 22 | 27° 3'09 | 5♋42 | 26°22 | 23°27 | 24° 2 | 22°23 | 15° 7 | 2°55 | 1°30 | 17°58 | 6°R28 | 5° 2 | 21°21 | 3°45 | T 15 |
| F 16 | 9 46 19 | 28° 3'35 | 18°12 | 25°15 | 24°40 | 24°30 | 22°21 | 15° 3 | 2°56 | 1°33 | 17°58 | 6°28 | 4°59 | 21°27 | 3°48 | F 16 |
| S 17 | 9 50 15 | 29° 3'59 | 1♌ 1 | 24° 9 | 25°53 | 24°59 | 22°19 | 14°59 | 2°58 | 1°35 | 17°57 | 6°25 | 4°56 | 21°34 | 3°50 | S 17 |
| S 18 | 9 54 12 | 0♓ 4'22 | 14°11 | 23° 6 | 27° 7 | 25°27 | 22°16 | 14°54 | 3° 0 | 1°37 | 17°56 | 6°19 | 4°53 | 21°41 | 3°52 | S 18 |
| M19 | 9 58 8 | 1° 4'42 | 27°44 | 22° 6 | 28°20 | 25°55 | 22°14 | 14°50 | 3° 2 | 1°39 | 17°55 | 6°12 | 4°49 | 21°47 | 3°54 | M19 |
| T 20 | 10 2 5 | 2° 5'01 | 11♍35 | 21°12 | 29°33 | 26°23 | 22°11 | 14°45 | 3° 4 | 1°42 | 17°54 | 6° 3 | 4°46 | 21°54 | 3°56 | T 20 |
| W21 | 10 6 1 | 3° 5'18 | 25°41 | 20°23 | 0♒47 | 26°51 | 22° 8 | 14°40 | 3° 6 | 1°44 | 17°53 | 5°53 | 4°43 | 22° 1 | 3°59 | W21 |
| T 22 | 10 9 58 | 4° 5'34 | 9♎58 | 19°41 | 2° 0 | 27°18 | 22° 5 | 14°36 | 3° 8 | 1°46 | 17°52 | 5°44 | 4°40 | 22° 7 | 4° 1 | T 22 |
| F 23 | 10 13 55 | 5° 5'48 | 24°19 | 19° 6 | 3°13 | 27°45 | 22° 2 | 14°31 | 3°11 | 1°48 | 17°51 | 5°36 | 4°37 | 22°14 | 4° 4 | F 23 |
| S 24 | 10 17 51 | 6° 6'00 | 8♏39 | 18°38 | 4°27 | 28°12 | 21°59 | 14°26 | 3°13 | 1°51 | 17°50 | 5°31 | 4°33 | 22°21 | 4° 6 | S 24 |
| S 25 | 10 21 48 | 7° 6'11 | 22°55 | 18°17 | 5°40 | 28°39 | 21°55 | 14°22 | 3°15 | 1°53 | 17°50 | 5°28 | 4°30 | 22°28 | 4° 9 | S 25 |
| M26 | 10 25 44 | 8° 6'21 | 7♐ 4 | 18° 3 | 6°54 | 29° 6 | 21°52 | 14°17 | 3°17 | 1°55 | 17°49 | 5°D27 | 4°27 | 22°34 | 4°11 | M26 |
| T 27 | 10 29 41 | 9° 6'29 | 21° 5 | 17°55 | 8° 7 | 29°32 | 21°48 | 14°12 | 3°20 | 1°58 | 17°48 | 5°27 | 4°24 | 22°41 | 4°14 | T 27 |
| W28 | 10 33 37 | 10♓ 6'35 | 4♉57 | 17°D55 | 9♒21 | 29♏58 | 21♎44 | 14♍ 7 | 3♉22 | 2♓ 0 | 17♋47 | 5°R28 | 4♋21 | 22♉48 | 4♉17 | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 16s58 | 23s20 | 0s 7 | 10s18 | 0n55 | 22s16 | 1n 4 | 15s41 | 1n20 | 7s27 | 1n25 | 7n30 | 2n10 | 11n57 | 0s28 | 11s47 | 0s41 | 23n 6 | 0n52 | 23n17 | 23n21 | 14n 9 | 11n31 | 1s13 |
| F 2 | 16 41 | 22 57 | 1 23 | 9 48 | 1 11 | 22 15 | 1 0 | 15 50 | 1 20 | 7 27 | 1 26 | 7 31 | 2 10 | 11 57 | 0 28 | 11 47 | 0 41 | 23 6 | 0 52 | 23 17 | 23 21 | 14 11 | 11 31 | 1 13 |
| S 3 | 16 23 | 21 9 | 2 32 | 9 21 | 1 28 | 22 14 | 0 57 | 15 59 | 1 19 | 7 27 | 1 26 | 7 33 | 2 10 | 11 58 | 0 28 | 11 46 | 0 41 | 23 6 | 0 52 | 23 17 | 23 21 | 14 13 | 11 31 | 1 13 |
| S 4 | 16 5 | 18 10 | 3 32 | 8 57 | 1 44 | 22 12 | 0 54 | 16 7 | 1 19 | 7 27 | 1 26 | 7 35 | 2 10 | 11 58 | 0 28 | 11 45 | 0 41 | 23 6 | 0 52 | 23 17 | 23 22 | 14 16 | 11 32 | 1 13 |
| M 5 | 15 47 | 14 16 | 4 18 | 8 37 | 2 1 | 22 10 | 0 51 | 16 16 | 1 19 | 7 27 | 1 26 | 7 36 | 2 10 | 11 59 | 0 27 | 11 44 | 0 41 | 23 6 | 0 52 | 23 18 | 23 22 | 14 18 | 11 32 | 1 13 |
| T 6 | 15 28 | 9 47 | 4 50 | 8 21 | 2 17 | 22 6 | 0 48 | 16 24 | 1 18 | 7 26 | 1 27 | 7 38 | 2 11 | 11 59 | 0 27 | 11 43 | 0 41 | 23 7 | 0 52 | 23 18 | 23 22 | 14 20 | 11 33 | 1 13 |
| W 7 | 15 10 | 4 59 | 5 6 | 8 9 | 2 33 | 22 2 | 0 44 | 16 33 | 1 18 | 7 26 | 1 27 | 7 40 | 2 11 | 12 0 | 0 27 | 11 43 | 0 41 | 23 7 | 0 52 | 23 19 | 23 22 | 14 23 | 11 33 | 1 13 |
| T 8 | 14 51 | 0 5 | 5 8 | 8 2 | 2 47 | 21 58 | 0 41 | 16 41 | 1 18 | 7 26 | 1 27 | 7 41 | 2 11 | 12 0 | 0 27 | 11 42 | 0 41 | 23 7 | 0 52 | 23 19 | 23 22 | 14 25 | 11 34 | 1 13 |
| F 9 | 14 31 | 4n43 | 4 55 | 8 0 | 3 1 | 21 53 | 0 38 | 16 49 | 1 17 | 7 25 | 1 27 | 7 43 | 2 11 | 12 1 | 0 27 | 11 41 | 0 41 | 23 7 | 0 52 | 23 19 | 23 22 | 14 27 | 11 35 | 1 13 |
| S 10 | 14 12 | 9 17 | 4 29 | 8 2 | 3 13 | 21 47 | 0 35 | 16 57 | 1 17 | 7 25 | 1 28 | 7 45 | 2 11 | 12 1 | 0 27 | 11 40 | 0 41 | 23 7 | 0 52 | 23 19 | 23 22 | 14 30 | 11 35 | 1 13 |
| S 11 | 13 52 | 13 27 | 3 52 | 8 9 | 3 24 | 21 40 | 0 31 | 17 5 | 1 17 | 7 24 | 1 28 | 7 47 | 2 11 | 12 2 | 0 27 | 11 39 | 0 41 | 23 8 | 0 52 | 23 19 | 23 23 | 14 32 | 11 36 | 1 13 |
| M12 | 13 32 | 17 5 | 3 6 | 8 20 | 3 32 | 21 33 | 0 28 | 17 13 | 1 16 | 7 23 | 1 28 | 7 48 | 2 12 | 12 3 | 0 27 | 11 39 | 0 41 | 23 8 | 0 52 | 23 19 | 23 23 | 14 34 | 11 36 | 1 13 |
| T 13 | 13 12 | 20 3 | 2 11 | 8 35 | 3 39 | 21 26 | 0 25 | 17 21 | 1 16 | 7 23 | 1 28 | 7 50 | 2 12 | 12 3 | 0 27 | 11 38 | 0 41 | 23 8 | 0 52 | 23 19 | 23 23 | 14 37 | 11 37 | 1 13 |
| W14 | 12 52 | 22 10 | 1 9 | 8 53 | 3 43 | 21 17 | 0 22 | 17 29 | 1 15 | 7 22 | 1 29 | 7 52 | 2 12 | 12 4 | 0 27 | 11 37 | 0 41 | 23 8 | 0 53 | 23 19 | 23 23 | 14 39 | 11 38 | 1 13 |
| T 15 | 12 31 | 23 17 | 0 4 | 9 13 | 3 45 | 21 8 | 0 19 | 17 36 | 1 15 | 7 21 | 1 29 | 7 54 | 2 12 | 12 5 | 0 27 | 11 36 | 0 41 | 23 8 | 0 53 | 23 19 | 23 23 | 14 41 | 11 38 | 1 13 |
| F 16 | 12 10 | 23 17 | 1n 3 | 9 36 | 3 44 | 20 59 | 0 15 | 17 43 | 1 15 | 7 20 | 1 29 | 7 56 | 2 12 | 12 5 | 0 27 | 11 35 | 0 41 | 23 9 | 0 53 | 23 19 | 23 23 | 14 44 | 11 39 | 1 14 |
| S 17 | 11 49 | 22 3 | 2 8 | 10 1 | 3 41 | 20 48 | 0 12 | 17 51 | 1 14 | 7 19 | 1 29 | 7 58 | 2 12 | 12 6 | 0 27 | 11 35 | 0 41 | 23 9 | 0 53 | 23 19 | 23 23 | 14 46 | 11 40 | 1 14 |
| S 18 | 11 28 | 19 36 | 3 8 | 10 26 | 3 37 | 20 38 | 0 9 | 17 58 | 1 14 | 7 18 | 1 30 | 8 0 | 2 12 | 12 7 | 0 27 | 11 34 | 0 41 | 23 9 | 0 53 | 23 20 | 23 23 | 14 48 | 11 40 | 1 14 |
| M19 | 11 7 | 16 1 | 3 59 | 10 51 | 3 30 | 20 26 | 0 6 | 18 5 | 1 13 | 7 17 | 1 30 | 8 1 | 2 13 | 12 7 | 0 27 | 11 33 | 0 41 | 23 9 | 0 53 | 23 20 | 23 24 | 14 51 | 11 41 | 1 14 |
| T 20 | 10 45 | 11 30 | 4 38 | 11 16 | 3 22 | 20 14 | 0 3 | 18 12 | 1 13 | 7 16 | 1 30 | 8 3 | 2 13 | 12 8 | 0 27 | 11 32 | 0 41 | 23 9 | 0 53 | 23 20 | 23 24 | 14 53 | 11 42 | 1 14 |
| W21 | 10 23 | 6 18 | 5 0 | 11 41 | 3 12 | 20 1 | 0s 0 | 18 19 | 1 12 | 7 14 | 1 30 | 8 5 | 2 13 | 12 9 | 0 27 | 11 31 | 0 41 | 23 9 | 0 53 | 23 21 | 23 24 | 14 55 | 11 43 | 1 14 |
| T 22 | 10 2 | 0 42 | 5 4 | 12 5 | 3 1 | 19 48 | 0 3 | 18 26 | 1 12 | 7 13 | 1 30 | 8 7 | 2 13 | 12 9 | 0 27 | 11 31 | 0 41 | 23 10 | 0 53 | 23 21 | 23 24 | 14 58 | 11 44 | 1 14 |
| F 23 | 9 40 | 4s58 | 4 49 | 12 27 | 2 49 | 19 34 | 0 6 | 18 32 | 1 11 | 7 12 | 1 31 | 8 9 | 2 13 | 12 10 | 0 27 | 11 30 | 0 41 | 23 10 | 0 53 | 23 22 | 23 24 | 15 0 | 11 44 | 1 14 |
| S 24 | 9 17 | 10 22 | 4 16 | 12 47 | 2 36 | 19 20 | 0 9 | 18 39 | 1 10 | 7 10 | 1 31 | 8 11 | 2 13 | 12 11 | 0 27 | 11 29 | 0 42 | 23 10 | 0 53 | 23 22 | 23 24 | 15 2 | 11 45 | 1 14 |
| S 25 | 8 55 | 15 12 | 3 27 | 13 6 | 2 23 | 19 5 | 0 12 | 18 45 | 1 10 | 7 9 | 1 31 | 8 13 | 2 13 | 12 12 | 0 27 | 11 28 | 0 42 | 23 10 | 0 53 | 23 22 | 23 24 | 15 5 | 11 46 | 1 14 |
| M26 | 8 33 | 19 8 | 2 25 | 13 24 | 2 10 | 18 50 | 0 15 | 18 52 | 1 9 | 7 7 | 1 31 | 8 15 | 2 13 | 12 13 | 0 27 | 11 27 | 0 42 | 23 10 | 0 53 | 23 22 | 23 24 | 15 7 | 11 47 | 1 14 |
| T 27 | 8 10 | 21 55 | 1 16 | 13 39 | 1 56 | 18 34 | 0 18 | 18 58 | 1 9 | 7 6 | 1 31 | 8 17 | 2 13 | 12 13 | 0 27 | 11 27 | 0 42 | 23 10 | 0 53 | 23 22 | 23 24 | 15 9 | 11 48 | 1 14 |
| W28 | 7s47 | 23s21 | 0n 3 | 13s52 | 1n42 | 18s17 | 0s21 | 19s 4 | 1n 8 | 7s 4 | 1n32 | 8n19 | 2n14 | 12n14 | 0s27 | 11s26 | 0s42 | 23n10 | 0n53 | 23n22 | 23n25 | 15n12 | 11n49 | 1s14 |

Julian Day Number = 2336525.5, Delta T = 20.87 sec
Ecliptic obliquity = 23°28'48, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'40, Lahiri = 19°27'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## MARCH 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 37 34 | 11♓ 6'40 | 18♉41 | 18♒ 0 | 10♒34 | 0♐24 | 21°R39 | 14°R 3 | 3♉24 | 2♓ 2 | 17°R47 | 5°R27 | 4♋18 | 22♉54 | 4♉19 | T 1 |
| F 2 | 10 41 30 | 12° 6'43 | 2♒15 | 18°12 | 11°48 | 0°50 | 21♎35 | 13♍58 | 3°27 | 2° 4 | 17♋46 | 5♋24 | 4°14 | 23° 1 | 4°22 | F 2 |
| S 3 | 10 45 27 | 13° 6'45 | 15°40 | 18°30 | 13° 2 | 1°15 | 21°30 | 13°53 | 3°29 | 2° 7 | 17°45 | 5°18 | 4°11 | 23° 8 | 4°25 | S 3 |
| S 4 | 10 49 24 | 14° 6'44 | 28°54 | 18°52 | 14°15 | 1°40 | 21°26 | 13°48 | 3°32 | 2° 9 | 17°45 | 5°10 | 4° 8 | 23°14 | 4°28 | S 4 |
| M 5 | 10 53 20 | 15° 6'42 | 11♓57 | 19°20 | 15°29 | 2° 5 | 21°21 | 13°44 | 3°34 | 2°11 | 17°44 | 4°59 | 4° 5 | 23°21 | 4°31 | M 5 |
| T 6 | 10 57 17 | 16° 6'38 | 24°46 | 19°52 | 16°42 | 2°30 | 21°16 | 13°39 | 3°37 | 2°13 | 17°44 | 4°46 | 4° 2 | 23°28 | 4°34 | T 6 |
| W 7 | 11 1 13 | 17° 6'32 | 7♈21 | 20°29 | 17°56 | 2°54 | 21°11 | 13°34 | 3°39 | 2°16 | 17°43 | 4°33 | 3°59 | 23°34 | 4°37 | W 7 |
| T 8 | 11 5 10 | 18° 6'23 | 19°42 | 21° 9 | 19° 9 | 3°18 | 21° 5 | 13°29 | 3°42 | 2°18 | 17°42 | 4°21 | 3°55 | 23°41 | 4°40 | T 8 |
| F 9 | 11 9 6 | 19° 6'13 | 1♉51 | 21°54 | 20°23 | 3°42 | 21° 0 | 13°25 | 3°45 | 2°20 | 17°42 | 4°11 | 3°52 | 23°48 | 4°43 | F 9 |
| S 10 | 11 13 3 | 20° 6'00 | 13°49 | 22°42 | 21°37 | 4° 5 | 20°54 | 13°20 | 3°47 | 2°22 | 17°41 | 4° 3 | 3°49 | 23°54 | 4°46 | S 10 |
| S 11 | 11 16 59 | 21° 5'46 | 25°40 | 23°33 | 22°50 | 4°28 | 20°48 | 13°15 | 3°50 | 2°24 | 17°41 | 3°57 | 3°46 | 24° 1 | 4°49 | S 11 |
| M12 | 11 20 56 | 22° 5'29 | 7♊29 | 24°28 | 24° 4 | 4°51 | 20°43 | 13°10 | 3°53 | 2°27 | 17°40 | 3°55 | 3°43 | 24° 8 | 4°52 | M12 |
| T 13 | 11 24 53 | 23° 5'10 | 19°19 | 25°25 | 25°17 | 5°14 | 20°37 | 13° 6 | 3°56 | 2°29 | 17°40 | 3°D54 | 3°39 | 24°14 | 4°55 | T 13 |
| W14 | 11 28 49 | 24° 4'48 | 1♋18 | 26°25 | 26°31 | 5°36 | 20°30 | 13° 1 | 3°58 | 2°31 | 17°40 | 3°R54 | 3°36 | 24°21 | 4°59 | W14 |
| T 15 | 11 32 46 | 25° 4'25 | 13°29 | 27°28 | 27°45 | 5°58 | 20°24 | 12°56 | 4° 1 | 2°33 | 17°39 | 3°54 | 3°33 | 24°28 | 5° 2 | T 15 |
| F 16 | 11 36 42 | 26° 3'59 | 25°59 | 28°33 | 28°58 | 6°19 | 20°18 | 12°52 | 4° 4 | 2°35 | 17°39 | 3°52 | 3°30 | 24°34 | 5° 5 | F 16 |
| S 17 | 11 40 39 | 27° 3'30 | 8♌51 | 29°41 | 0♓12 | 6°40 | 20°11 | 12°47 | 4° 7 | 2°37 | 17°38 | 3°48 | 3°27 | 24°41 | 5° 9 | S 17 |
| S 18 | 11 44 35 | 28° 3'00 | 22° 9 | 0♓51 | 1°26 | 7° 1 | 20° 5 | 12°43 | 4°10 | 2°39 | 17°38 | 3°42 | 3°24 | 24°48 | 5°12 | S 18 |
| M19 | 11 48 32 | 29° 2'27 | 5♍54 | 2° 3 | 2°39 | 7°22 | 19°58 | 12°38 | 4°13 | 2°41 | 17°38 | 3°33 | 3°20 | 24°54 | 5°15 | M19 |
| T 20 | 11 52 28 | 0♈ 1'52 | 20° 4 | 3°17 | 3°53 | 7°42 | 19°51 | 12°34 | 4°16 | 2°44 | 17°37 | 3°22 | 3°17 | 25° 1 | 5°19 | T 20 |
| W21 | 11 56 25 | 1° 1'15 | 4♎33 | 4°33 | 5° 6 | 8° 2 | 19°45 | 12°29 | 4°19 | 2°46 | 17°37 | 3°10 | 3°14 | 25° 8 | 5°22 | W21 |
| T 22 | 12 0 22 | 2° 0'35 | 19°16 | 5°50 | 6°20 | 8°21 | 19°38 | 12°25 | 4°22 | 2°48 | 17°37 | 2°58 | 3°11 | 25°14 | 5°26 | T 22 |
| F 23 | 12 4 18 | 2°59'54 | 4♏ 5 | 7°10 | 7°34 | 8°40 | 19°31 | 12°21 | 4°25 | 2°50 | 17°37 | 2°48 | 3° 8 | 25°21 | 5°29 | F 23 |
| S 24 | 12 8 15 | 3°59'11 | 18°50 | 8°31 | 8°47 | 8°59 | 19°23 | 12°16 | 4°28 | 2°52 | 17°37 | 2°41 | 3° 5 | 25°28 | 5°33 | S 24 |
| S 25 | 12 12 11 | 4°58'26 | 3♐25 | 9°54 | 10° 1 | 9°17 | 19°16 | 12°12 | 4°31 | 2°54 | 17°36 | 2°37 | 3° 1 | 25°34 | 5°37 | S 25 |
| M26 | 12 16 8 | 5°57'40 | 17°46 | 11°19 | 11°15 | 9°34 | 19° 9 | 12° 8 | 4°34 | 2°56 | 17°36 | 2°35 | 2°58 | 25°41 | 5°40 | M26 |
| T 27 | 12 20 4 | 6°56'51 | 1♑50 | 12°46 | 12°28 | 9°52 | 19° 2 | 12° 4 | 4°37 | 2°58 | 17°36 | 2°34 | 2°55 | 25°48 | 5°44 | T 27 |
| W28 | 12 24 1 | 7°56'01 | 15°38 | 14°14 | 13°42 | 10° 9 | 18°54 | 12° 0 | 4°41 | 3° 0 | 17°36 | 2°34 | 2°52 | 25°54 | 5°47 | W28 |
| T 29 | 12 27 57 | 8°55'10 | 29°10 | 15°43 | 14°56 | 10°25 | 18°47 | 11°56 | 4°44 | 3° 2 | 17°36 | 2°33 | 2°49 | 26° 1 | 5°51 | T 29 |
| F 30 | 12 31 54 | 9°54'16 | 12♒28 | 17°14 | 16° 9 | 10°41 | 18°39 | 11°52 | 4°47 | 3° 4 | 17°36 | 2°30 | 2°45 | 26° 8 | 5°55 | F 30 |
| S 31 | 12 35 51 | 10♈53'21 | 25♒32 | 18♓47 | 17♓23 | 10♐56 | 18♎32 | 11♍48 | 4♉50 | 3♓ 5 | 17°D36 | 2♋24 | 2♋42 | 26♉14 | 5♉59 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s25 | 23s20 | 1s10 | 14s 4 | 1n28 | 18s 0 | 0s24 | 19s10 | 1n 7 | 7s 2 | 1n32 | 8n21 | 2n14 | 12n15 | 0s27 | 11s25 | 0s42 | 23n11 | 0n53 | 23n22 | 23n25 | 15n14 | 11n49 | 1s14 |
| F 2 | 7 2 | 21 55 | 2 17 | 14 13 | 1 15 | 17 42 | 0 27 | 19 16 | 1 7 | 7 0 | 1 32 | 8 22 | 2 14 | 12 16 | 0 27 | 11 24 | 0 42 | 23 11 | 0 53 | 23 22 | 23 25 | 15 16 | 11 50 | 1 14 |
| S 3 | 6 39 | 19 17 | 3 16 | 14 20 | 1 1 | 17 24 | 0 29 | 19 22 | 1 6 | 6 58 | 1 32 | 8 24 | 2 14 | 12 17 | 0 27 | 11 23 | 0 42 | 23 11 | 0 53 | 23 22 | 23 25 | 15 19 | 11 51 | 1 14 |
| S 4 | 6 16 | 15 41 | 4 4 | 14 26 | 0 48 | 17 6 | 0 32 | 19 28 | 1 5 | 6 56 | 1 32 | 8 26 | 2 14 | 12 18 | 0 27 | 11 23 | 0 42 | 23 11 | 0 53 | 23 23 | 23 25 | 15 21 | 11 52 | 1 14 |
| M 5 | 5 53 | 11 22 | 4 38 | 14 30 | 0 35 | 16 47 | 0 35 | 19 34 | 1 4 | 6 55 | 1 33 | 8 28 | 2 14 | 12 19 | 0 27 | 11 22 | 0 42 | 23 11 | 0 53 | 23 23 | 23 25 | 15 23 | 11 53 | 1 14 |
| T 6 | 5 29 | 6 37 | 4 57 | 14 31 | 0 23 | 16 27 | 0 37 | 19 39 | 1 4 | 6 52 | 1 33 | 8 30 | 2 14 | 12 19 | 0 27 | 11 21 | 0 42 | 23 11 | 0 53 | 23 24 | 23 25 | 15 25 | 11 54 | 1 14 |
| W 7 | 5 6 | 1 41 | 5 1 | 14 31 | 0 10 | 16 7 | 0 40 | 19 45 | 1 3 | 6 50 | 1 33 | 8 32 | 2 14 | 12 20 | 0 27 | 11 20 | 0 42 | 23 11 | 0 54 | 23 24 | 23 25 | 15 28 | 11 55 | 1 14 |
| T 8 | 4 43 | 3n14 | 4 51 | 14 30 | 0s 1 | 15 47 | 0 42 | 19 50 | 1 2 | 6 48 | 1 33 | 8 34 | 2 14 | 12 21 | 0 27 | 11 19 | 0 42 | 23 11 | 0 54 | 23 25 | 23 25 | 15 30 | 11 56 | 1 14 |
| F 9 | 4 19 | 7 57 | 4 27 | 14 26 | 0 13 | 15 26 | 0 45 | 19 55 | 1 1 | 6 46 | 1 33 | 8 36 | 2 14 | 12 22 | 0 27 | 11 19 | 0 42 | 23 12 | 0 54 | 23 25 | 23 25 | 15 32 | 11 57 | 1 14 |
| S 10 | 3 56 | 12 19 | 3 53 | 14 21 | 0 24 | 15 4 | 0 47 | 20 1 | 1 1 | 6 44 | 1 33 | 8 38 | 2 14 | 12 23 | 0 27 | 11 18 | 0 42 | 23 12 | 0 54 | 23 25 | 23 26 | 15 35 | 11 58 | 1 14 |
| S 11 | 3 32 | 16 10 | 3 8 | 14 14 | 0 34 | 14 43 | 0 50 | 20 6 | 1 0 | 6 41 | 1 34 | 8 39 | 2 14 | 12 24 | 0 27 | 11 17 | 0 42 | 23 12 | 0 54 | 23 25 | 23 26 | 15 37 | 11 59 | 1 14 |
| M12 | 3 9 | 19 22 | 2 15 | 14 5 | 0 44 | 14 20 | 0 52 | 20 11 | 0 59 | 6 39 | 1 34 | 8 41 | 2 14 | 12 25 | 0 27 | 11 16 | 0 42 | 23 12 | 0 54 | 23 25 | 23 26 | 15 39 | 12 0 | 1 14 |
| T 13 | 2 45 | 21 47 | 1 16 | 13 55 | 0 54 | 13 58 | 0 54 | 20 16 | 0 58 | 6 37 | 1 34 | 8 43 | 2 14 | 12 26 | 0 27 | 11 16 | 0 42 | 23 12 | 0 54 | 23 25 | 23 26 | 15 41 | 12 1 | 1 14 |
| W14 | 2 21 | 23 15 | 0 14 | 13 43 | 1 3 | 13 35 | 0 56 | 20 20 | 0 57 | 6 34 | 1 34 | 8 45 | 2 14 | 12 27 | 0 27 | 11 15 | 0 42 | 23 12 | 0 54 | 23 25 | 23 26 | 15 44 | 12 2 | 1 14 |
| T 15 | 1 58 | 23 38 | 0n51 | 13 29 | 1 11 | 13 12 | 0 59 | 20 25 | 0 56 | 6 32 | 1 34 | 8 47 | 2 14 | 12 28 | 0 26 | 11 14 | 0 42 | 23 12 | 0 54 | 23 25 | 23 26 | 15 46 | 12 3 | 1 14 |
| F 16 | 1 34 | 22 51 | 1 54 | 13 14 | 1 20 | 12 48 | 1 1 | 20 30 | 0 55 | 6 29 | 1 34 | 8 48 | 2 14 | 12 29 | 0 26 | 11 13 | 0 42 | 23 12 | 0 54 | 23 25 | 23 26 | 15 48 | 12 4 | 1 14 |
| S 17 | 1 10 | 20 52 | 2 54 | 12 58 | 1 27 | 12 24 | 1 3 | 20 34 | 0 54 | 6 27 | 1 34 | 8 50 | 2 14 | 12 30 | 0 26 | 11 13 | 0 42 | 23 12 | 0 54 | 23 26 | 23 26 | 15 50 | 12 5 | 1 14 |
| S 18 | 0 47 | 17 42 | 3 46 | 12 40 | 1 35 | 12 0 | 1 5 | 20 39 | 0 53 | 6 24 | 1 34 | 8 52 | 2 14 | 12 31 | 0 26 | 11 12 | 0 42 | 23 13 | 0 54 | 23 26 | 23 26 | 15 53 | 12 7 | 1 14 |
| M19 | 0 23 | 13 29 | 4 27 | 12 20 | 1 41 | 11 35 | 1 7 | 20 43 | 0 52 | 6 22 | 1 35 | 8 54 | 2 14 | 12 32 | 0 26 | 11 11 | 0 42 | 23 13 | 0 54 | 23 26 | 23 26 | 15 55 | 12 8 | 1 14 |
| T 20 | 0n 1 | 8 25 | 4 52 | 12 0 | 1 48 | 11 10 | 1 8 | 20 48 | 0 51 | 6 19 | 1 35 | 8 55 | 2 14 | 12 33 | 0 26 | 11 10 | 0 42 | 23 13 | 0 54 | 23 26 | 23 26 | 15 57 | 12 9 | 1 14 |
| W21 | 0 24 | 2 47 | 5 0 | 11 37 | 1 54 | 10 45 | 1 10 | 20 52 | 0 50 | 6 16 | 1 35 | 8 57 | 2 14 | 12 34 | 0 26 | 11 10 | 0 42 | 23 13 | 0 54 | 23 27 | 23 26 | 16 0 | 12 10 | 1 14 |
| T 22 | 0 48 | 3s 6 | 4 48 | 11 14 | 1 59 | 10 19 | 1 12 | 20 56 | 0 49 | 6 14 | 1 35 | 8 59 | 2 14 | 12 35 | 0 26 | 11 9 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 2 | 12 11 | 1 15 |
| F 23 | 1 12 | 8 52 | 4 17 | 10 49 | 2 4 | 9 53 | 1 13 | 21 0 | 0 47 | 6 11 | 1 35 | 9 0 | 2 14 | 12 36 | 0 26 | 11 8 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 4 | 12 12 | 1 15 |
| S 24 | 1 35 | 14 6 | 3 29 | 10 22 | 2 8 | 9 27 | 1 15 | 21 4 | 0 46 | 6 8 | 1 35 | 9 2 | 2 14 | 12 37 | 0 26 | 11 7 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 6 | 12 13 | 1 15 |
| S 25 | 1 59 | 18 28 | 2 27 | 9 54 | 2 12 | 9 0 | 1 17 | 21 8 | 0 45 | 6 5 | 1 35 | 9 4 | 2 14 | 12 38 | 0 26 | 11 7 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 9 | 12 14 | 1 15 |
| M26 | 2 22 | 21 38 | 1 17 | 9 25 | 2 16 | 8 34 | 1 18 | 21 12 | 0 44 | 6 3 | 1 35 | 9 5 | 2 14 | 12 39 | 0 26 | 11 6 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 11 | 12 16 | 1 15 |
| T 27 | 2 46 | 23 24 | 0 4 | 8 55 | 2 19 | 8 7 | 1 19 | 21 16 | 0 42 | 6 0 | 1 35 | 9 7 | 2 14 | 12 40 | 0 26 | 11 5 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 13 | 12 17 | 1 15 |
| W28 | 3 9 | 23 42 | 1s 9 | 8 23 | 2 21 | 7 40 | 1 21 | 21 20 | 0 41 | 5 57 | 1 35 | 9 8 | 2 14 | 12 41 | 0 26 | 11 5 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 15 | 12 18 | 1 15 |
| T 29 | 3 32 | 22 34 | 2 16 | 7 51 | 2 23 | 7 12 | 1 22 | 21 24 | 0 40 | 5 54 | 1 35 | 9 10 | 2 14 | 12 42 | 0 26 | 11 4 | 0 42 | 23 13 | 0 54 | 23 27 | 23 27 | 16 17 | 12 19 | 1 15 |
| F 30 | 3 56 | 20 12 | 3 14 | 7 16 | 2 25 | 6 45 | 1 23 | 21 27 | 0 38 | 5 51 | 1 35 | 9 11 | 2 14 | 12 44 | 0 26 | 11 3 | 0 42 | 23 13 | 0 55 | 23 27 | 23 27 | 16 20 | 12 20 | 1 15 |
| S 31 | 4n19 | 16s49 | 4s 1 | 6s41 | 2s26 | 6s17 | 1s24 | 21s31 | 0n37 | 5s48 | 1n35 | 9n13 | 2n14 | 12n45 | 0s26 | 11s 3 | 0s42 | 23n13 | 0n55 | 23n28 | 23n27 | 16n22 | 12n21 | 1s15 |

Julian Day Number = 2336553.5, Delta T = 20.83 sec
Ecliptic obliquity = 23°28'49, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'44, Lahiri = 19°27'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## APRIL 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 39 47 | 11♈52'23 | 8♓25 | 20♓21 | 18♓37 | 11♐11 | 18°R24 | 11°R44 | 4♉53 | 3♓ 7 | 17♋36 | 2°R15 | 2♋39 | 26♉21 | 6♉ 2 | S 1 |
| M 2 | 12 43 44 | 12°51'24 | 21° 7 | 21°57 | 19°50 | 11°26 | 18♎17 | 11♏41 | 4°57 | 3° 9 | 17°36 | 2♋ 3 | 2°36 | 26°28 | 6° 6 | M 2 |
| T 3 | 12 47 40 | 13°50'23 | 3♈38 | 23°34 | 21° 4 | 11°40 | 18° 9 | 11°37 | 5° 0 | 3°11 | 17°36 | 1°50 | 2°33 | 26°35 | 6°10 | T 3 |
| W 4 | 12 51 37 | 14°49'20 | 15°59 | 25°13 | 22°18 | 11°53 | 18° 1 | 11°33 | 5° 3 | 3°13 | 17°36 | 1°37 | 2°30 | 26°41 | 6°14 | W 4 |
| T 5 | 12 55 33 | 15°48'14 | 28° 9 | 26°53 | 23°31 | 12° 6 | 17°54 | 11°30 | 5° 7 | 3°15 | 17°36 | 1°24 | 2°26 | 26°48 | 6°18 | T 5 |
| F 6 | 12 59 30 | 16°47'07 | 10♉11 | 28°35 | 24°45 | 12°18 | 17°46 | 11°26 | 5°10 | 3°16 | 17°37 | 1°13 | 2°23 | 26°55 | 6°22 | F 6 |
| S 7 | 13 3 26 | 17°45'58 | 22° 5 | 0♈18 | 25°59 | 12°30 | 17°38 | 11°23 | 5°13 | 3°18 | 17°37 | 1° 4 | 2°20 | 27° 1 | 6°25 | S 7 |
| S 8 | 13 7 23 | 18°44'46 | 3♊54 | 2° 3 | 27°12 | 12°41 | 17°30 | 11°20 | 5°17 | 3°20 | 17°37 | 0°58 | 2°17 | 27° 8 | 6°29 | S 8 |
| M 9 | 13 11 19 | 19°43'32 | 15°41 | 3°49 | 28°26 | 12°52 | 17°23 | 11°16 | 5°20 | 3°22 | 17°37 | 0°55 | 2°14 | 27°15 | 6°33 | M 9 |
| T 10 | 13 15 16 | 20°42'17 | 27°30 | 5°37 | 29°40 | 13° 2 | 17°15 | 11°13 | 5°23 | 3°23 | 17°37 | 0°D54 | 2°10 | 27°21 | 6°37 | T 10 |
| W11 | 13 19 13 | 21°40'59 | 9♋27 | 7°27 | 0♈53 | 13°12 | 17° 7 | 11°10 | 5°27 | 3°25 | 17°38 | 0°54 | 2° 7 | 27°28 | 6°41 | W11 |
| T 12 | 13 23 9 | 22°39'38 | 21°37 | 9°18 | 2° 7 | 13°21 | 17° 0 | 11° 7 | 5°30 | 3°27 | 17°38 | 0°R54 | 2° 4 | 27°35 | 6°45 | T 12 |
| F 13 | 13 27 6 | 23°38'16 | 4♌ 4 | 11°10 | 3°20 | 13°29 | 16°52 | 11° 4 | 5°33 | 3°28 | 17°38 | 0°54 | 2° 1 | 27°41 | 6°49 | F 13 |
| S 14 | 13 31 2 | 24°36'51 | 16°54 | 13° 5 | 4°34 | 13°36 | 16°45 | 11° 2 | 5°37 | 3°30 | 17°39 | 0°51 | 1°58 | 27°48 | 6°53 | S 14 |
| S 15 | 13 34 59 | 25°35'24 | 0♍10 | 15° 0 | 5°48 | 13°43 | 16°37 | 10°59 | 5°40 | 3°31 | 17°39 | 0°47 | 1°55 | 27°55 | 6°57 | S 15 |
| M16 | 13 38 55 | 26°33'55 | 13°56 | 16°58 | 7° 1 | 13°50 | 16°29 | 10°56 | 5°44 | 3°33 | 17°39 | 0°40 | 1°51 | 28° 1 | 7° 1 | M16 |
| T 17 | 13 42 52 | 27°32'23 | 28°11 | 18°57 | 8°15 | 13°56 | 16°22 | 10°54 | 5°47 | 3°35 | 17°40 | 0°32 | 1°48 | 28° 8 | 7° 5 | T 17 |
| W18 | 13 46 48 | 28°30'50 | 12♎50 | 20°57 | 9°29 | 14° 1 | 16°15 | 10°51 | 5°51 | 3°36 | 17°40 | 0°22 | 1°45 | 28°15 | 7° 9 | W18 |
| T 19 | 13 50 45 | 29°29'14 | 27°48 | 22°59 | 10°42 | 14° 5 | 16° 7 | 10°49 | 5°54 | 3°38 | 17°41 | 0°13 | 1°42 | 28°21 | 7°13 | T 19 |
| F 20 | 13 54 42 | 0♉27'37 | 12♏55 | 25° 2 | 11°56 | 14° 9 | 16° 0 | 10°47 | 5°57 | 3°39 | 17°41 | 0° 5 | 1°39 | 28°28 | 7°17 | F 20 |
| S 21 | 13 58 38 | 1°25'58 | 28° 2 | 27° 7 | 13° 9 | 14°12 | 15°53 | 10°44 | 6° 1 | 3°40 | 17°42 | 29♊59 | 1°36 | 28°35 | 7°21 | S 21 |
| S 22 | 14 2 35 | 2°24'17 | 12♐58 | 29°12 | 14°23 | 14°14 | 15°46 | 10°42 | 6° 4 | 3°42 | 17°42 | 29°56 | 1°32 | 28°41 | 7°25 | S 22 |
| M23 | 14 6 31 | 3°22'35 | 27°37 | 1♉19 | 15°37 | 14°15 | 15°39 | 10°40 | 6° 8 | 3°43 | 17°43 | 29°D55 | 1°29 | 28°48 | 7°29 | M23 |
| T 24 | 14 10 28 | 4°20'51 | 11♑55 | 3°27 | 16°50 | 14°16 | 15°32 | 10°39 | 6°11 | 3°45 | 17°43 | 29°55 | 1°26 | 28°55 | 7°34 | T 24 |
| W25 | 14 14 24 | 5°19'06 | 25°50 | 5°36 | 18° 4 | 14°R16 | 15°25 | 10°37 | 6°15 | 3°46 | 17°44 | 29°56 | 1°23 | 29° 1 | 7°38 | W25 |
| T 26 | 14 18 21 | 6°17'19 | 9♒23 | 7°45 | 19°17 | 14°16 | 15°18 | 10°35 | 6°18 | 3°47 | 17°45 | 29°R56 | 1°20 | 29° 8 | 7°42 | T 26 |
| F 27 | 14 22 17 | 7°15'31 | 22°36 | 9°55 | 20°31 | 14°14 | 15°11 | 10°33 | 6°22 | 3°48 | 17°45 | 29°55 | 1°16 | 29°15 | 7°46 | F 27 |
| S 28 | 14 26 14 | 8°13'41 | 5♓30 | 12° 4 | 21°45 | 14°12 | 15° 5 | 10°32 | 6°25 | 3°50 | 17°46 | 29°52 | 1°13 | 29°21 | 7°50 | S 28 |
| S 29 | 14 30 11 | 9°11'50 | 18°10 | 14°14 | 22°58 | 14° 9 | 14°58 | 10°31 | 6°29 | 3°51 | 17°47 | 29°46 | 1°10 | 29°28 | 7°54 | S 29 |
| M30 | 14 34 7 | 10♉ 9'57 | 0♈37 | 16♉23 | 24♈12 | 14♐ 6 | 14♎52 | 10♏29 | 6♉32 | 3♓52 | 17♋47 | 29♊39 | 1♋ 7 | 29♉35 | 7♉58 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n42 | 12s40 | 4s35 | 6s 5 | 2s27 | 5s49 | 1s25 | 21s35 | 0n35 | 5s45 | 1n35 | 9n14 | 2n14 | 12n46 | 0s26 | 11s 2 | 0s42 | 23n13 | 0n55 | 23n28 | 23n27 | 16n24 | 12n23 | 1s15 |
| M 2 | 5 5 | 8 2 | 4 55 | 5 27 | 2 27 | 5 21 | 1 26 | 21 38 | 0 34 | 5 42 | 1 35 | 9 15 | 2 14 | 12 47 | 0 26 | 11 1 | 0 42 | 23 13 | 0 55 | 23 28 | 23 27 | 16 26 | 12 24 | 1 15 |
| T 3 | 5 28 | 3 9 | 5 0 | 4 48 | 2 26 | 4 53 | 1 27 | 21 42 | 0 32 | 5 39 | 1 35 | 9 17 | 2 14 | 12 48 | 0 26 | 11 1 | 0 42 | 23 13 | 0 55 | 23 28 | 23 27 | 16 29 | 12 25 | 1 15 |
| W 4 | 5 51 | 1n49 | 4 51 | 4 8 | 2 26 | 4 25 | 1 28 | 21 45 | 0 30 | 5 37 | 1 35 | 9 18 | 2 14 | 12 49 | 0 26 | 11 0 | 0 42 | 23 13 | 0 55 | 23 28 | 23 27 | 16 31 | 12 26 | 1 15 |
| T 5 | 6 14 | 6 39 | 4 29 | 3 27 | 2 24 | 3 56 | 1 29 | 21 48 | 0 29 | 5 34 | 1 35 | 9 19 | 2 13 | 12 50 | 0 26 | 10 59 | 0 42 | 23 13 | 0 55 | 23 28 | 23 27 | 16 33 | 12 27 | 1 15 |
| F 6 | 6 36 | 11 11 | 3 55 | 2 44 | 2 22 | 3 28 | 1 30 | 21 52 | 0 27 | 5 31 | 1 35 | 9 20 | 2 13 | 12 51 | 0 26 | 10 59 | 0 42 | 23 13 | 0 55 | 23 28 | 23 28 | 16 35 | 12 29 | 1 15 |
| S 7 | 6 59 | 15 15 | 3 11 | 2 1 | 2 20 | 2 59 | 1 30 | 21 55 | 0 25 | 5 28 | 1 35 | 9 22 | 2 13 | 12 52 | 0 26 | 10 58 | 0 42 | 23 14 | 0 55 | 23 29 | 23 28 | 16 37 | 12 30 | 1 15 |
| S 8 | 7 21 | 18 42 | 2 18 | 1 17 | 2 17 | 2 30 | 1 31 | 21 58 | 0 24 | 5 25 | 1 35 | 9 23 | 2 13 | 12 54 | 0 26 | 10 58 | 0 42 | 23 14 | 0 55 | 23 29 | 23 28 | 16 40 | 12 31 | 1 15 |
| M 9 | 7 44 | 21 23 | 1 20 | 0 31 | 2 14 | 2 1 | 1 31 | 22 1 | 0 22 | 5 22 | 1 35 | 9 24 | 2 13 | 12 55 | 0 26 | 10 57 | 0 42 | 23 14 | 0 55 | 23 29 | 23 28 | 16 42 | 12 32 | 1 15 |
| T 10 | 8 6 | 23 9 | 0 18 | 0n15 | 2 10 | 1 32 | 1 32 | 22 4 | 0 20 | 5 19 | 1 35 | 9 25 | 2 13 | 12 56 | 0 26 | 10 56 | 0 42 | 23 14 | 0 55 | 23 29 | 23 28 | 16 44 | 12 34 | 1 16 |
| W11 | 8 28 | 23 54 | 0n45 | 1 3 | 2 5 | 1 3 | 1 32 | 22 7 | 0 18 | 5 16 | 1 35 | 9 26 | 2 13 | 12 57 | 0 26 | 10 56 | 0 42 | 23 14 | 0 55 | 23 29 | 23 28 | 16 46 | 12 35 | 1 16 |
| T 12 | 8 50 | 23 31 | 1 48 | 1 51 | 2 0 | 0 34 | 1 32 | 22 10 | 0 16 | 5 13 | 1 35 | 9 27 | 2 13 | 12 58 | 0 26 | 10 55 | 0 42 | 23 14 | 0 55 | 23 29 | 23 28 | 16 48 | 12 36 | 1 16 |
| F 13 | 9 12 | 21 59 | 2 47 | 2 40 | 1 55 | 0 5 | 1 32 | 22 13 | 0 14 | 5 10 | 1 35 | 9 28 | 2 13 | 12 59 | 0 26 | 10 55 | 0 42 | 23 14 | 0 55 | 23 29 | 23 28 | 16 51 | 12 37 | 1 16 |
| S 14 | 9 33 | 19 17 | 3 40 | 3 30 | 1 49 | 0n24 | 1 33 | 22 16 | 0 12 | 5 8 | 1 35 | 9 29 | 2 13 | 13 0 | 0 26 | 10 54 | 0 43 | 23 14 | 0 55 | 23 29 | 23 28 | 16 53 | 12 39 | 1 16 |
| S 15 | 9 55 | 15 31 | 4 22 | 4 21 | 1 42 | 0 53 | 1 33 | 22 19 | 0 10 | 5 5 | 1 35 | 9 30 | 2 12 | 13 2 | 0 26 | 10 54 | 0 43 | 23 14 | 0 55 | 23 29 | 23 28 | 16 55 | 12 40 | 1 16 |
| M16 | 10 16 | 10 48 | 4 51 | 5 12 | 1 35 | 1 22 | 1 33 | 22 22 | 0 8 | 5 2 | 1 35 | 9 31 | 2 12 | 13 3 | 0 26 | 10 53 | 0 43 | 23 14 | 0 55 | 23 29 | 23 28 | 16 57 | 12 41 | 1 16 |
| T 17 | 10 37 | 5 22 | 5 4 | 6 4 | 1 28 | 1 52 | 1 33 | 22 25 | 0 6 | 4 59 | 1 35 | 9 32 | 2 12 | 13 4 | 0 26 | 10 52 | 0 43 | 23 14 | 0 55 | 23 29 | 23 28 | 16 59 | 12 42 | 1 16 |
| W18 | 10 58 | 0s31 | 4 57 | 6 57 | 1 20 | 2 21 | 1 32 | 22 28 | 0 3 | 4 56 | 1 35 | 9 33 | 2 12 | 13 5 | 0 26 | 10 52 | 0 43 | 23 14 | 0 55 | 23 29 | 23 28 | 17 2 | 12 44 | 1 16 |
| T 19 | 11 19 | 6 31 | 4 30 | 7 50 | 1 12 | 2 50 | 1 32 | 22 31 | 0 1 | 4 54 | 1 35 | 9 33 | 2 12 | 13 6 | 0 26 | 10 51 | 0 43 | 23 13 | 0 55 | 23 29 | 23 28 | 17 4 | 12 45 | 1 16 |
| F 20 | 11 39 | 12 11 | 3 44 | 8 44 | 1 3 | 3 19 | 1 32 | 22 33 | 0s 1 | 4 51 | 1 35 | 9 34 | 2 12 | 13 7 | 0 26 | 10 51 | 0 43 | 23 13 | 0 55 | 23 29 | 23 28 | 17 6 | 12 46 | 1 16 |
| S 21 | 12 0 | 17 7 | 2 42 | 9 37 | 0 54 | 3 48 | 1 32 | 22 36 | 0 3 | 4 48 | 1 35 | 9 35 | 2 12 | 13 8 | 0 26 | 10 50 | 0 43 | 23 13 | 0 55 | 23 29 | 23 28 | 17 8 | 12 47 | 1 16 |
| S 22 | 12 20 | 20 55 | 1 30 | 10 31 | 0 45 | 4 17 | 1 31 | 22 39 | 0 6 | 4 46 | 1 34 | 9 36 | 2 12 | 13 10 | 0 26 | 10 50 | 0 43 | 23 13 | 0 55 | 23 29 | 23 28 | 17 10 | 12 49 | 1 16 |
| M23 | 12 40 | 23 15 | 0 12 | 11 25 | 0 35 | 4 45 | 1 31 | 22 41 | 0 8 | 4 43 | 1 34 | 9 36 | 2 11 | 13 11 | 0 26 | 10 49 | 0 43 | 23 13 | 0 56 | 23 29 | 23 28 | 17 12 | 12 50 | 1 16 |
| T 24 | 12 59 | 24 0 | 1s 4 | 12 18 | 0 25 | 5 14 | 1 30 | 22 44 | 0 11 | 4 40 | 1 34 | 9 37 | 2 11 | 13 12 | 0 26 | 10 49 | 0 43 | 23 13 | 0 56 | 23 29 | 23 28 | 17 15 | 12 51 | 1 17 |
| W25 | 13 19 | 23 13 | 2 15 | 13 11 | 0 14 | 5 43 | 1 30 | 22 47 | 0 14 | 4 38 | 1 34 | 9 37 | 2 11 | 13 13 | 0 26 | 10 49 | 0 43 | 23 13 | 0 56 | 23 29 | 23 28 | 17 17 | 12 52 | 1 17 |
| T 26 | 13 38 | 21 5 | 3 16 | 14 4 | 0 4 | 6 11 | 1 29 | 22 49 | 0 16 | 4 35 | 1 34 | 9 38 | 2 11 | 13 14 | 0 26 | 10 48 | 0 43 | 23 13 | 0 56 | 23 29 | 23 28 | 17 19 | 12 53 | 1 17 |
| F 27 | 13 57 | 17 51 | 4 5 | 14 55 | 0n 7 | 6 40 | 1 28 | 22 52 | 0 19 | 4 33 | 1 34 | 9 38 | 2 11 | 13 15 | 0 26 | 10 48 | 0 43 | 23 13 | 0 56 | 23 29 | 23 28 | 17 21 | 12 55 | 1 17 |
| S 28 | 14 16 | 13 50 | 4 40 | 15 46 | 0 17 | 7 8 | 1 27 | 22 54 | 0 22 | 4 31 | 1 34 | 9 39 | 2 11 | 13 17 | 0 26 | 10 47 | 0 43 | 23 13 | 0 56 | 23 29 | 23 28 | 17 23 | 12 56 | 1 17 |
| S 29 | 14 35 | 9 18 | 5 1 | 16 35 | 0 28 | 7 36 | 1 27 | 22 57 | 0 24 | 4 28 | 1 33 | 9 39 | 2 11 | 13 18 | 0 26 | 10 47 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 25 | 12 57 | 1 17 |
| M30 | 14n53 | 4s27 | 5s 7 | 17n23 | 0n39 | 8n 4 | 1s26 | 22s59 | 0s27 | 4s26 | 1n33 | 9n39 | 2n10 | 13n19 | 0s26 | 10s46 | 0s43 | 23n13 | 0n56 | 23n29 | 23n29 | 17n28 | 12n58 | 1s17 |

Julian Day Number = 2336584.5, Delta T = 20.79 sec
Ecliptic obliquity = 23°28'49, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'48, Lahiri = 19°27'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## MAY 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 38 4 | 11♉ 8'02 | 12♈53 | 18♉31 | 25♈25 | 14°R 1 | 14°R45 | 10°R28 | 6♉36 | 3♓53 | 17♋48 | 29°R30 | 1♋ 4 | 29♉41 | 8♉ 2 | T 1 |
| W 2 | 14 42 0 | 12° 6'06 | 25° 0 | 20°38 | 26°39 | 13♐56 | 14♎39 | 10♍27 | 6°39 | 3°54 | 17°49 | 29♊21 | 1° 1 | 29°48 | 8° 6 | W 2 |
| T 3 | 14 45 57 | 13° 4'09 | 7♉ 0 | 22°44 | 27°53 | 13°50 | 14°33 | 10°26 | 6°42 | 3°55 | 17°50 | 29°13 | 0°57 | 29°55 | 8°10 | T 3 |
| F 4 | 14 49 53 | 14° 2'10 | 18°54 | 24°48 | 29° 6 | 13°43 | 14°27 | 10°25 | 6°46 | 3°56 | 17°50 | 29° 5 | 0°54 | 0♊ 1 | 8°14 | F 4 |
| S 5 | 14 53 50 | 15° 0'09 | 0♊44 | 26°50 | 0♉20 | 13°36 | 14°21 | 10°24 | 6°49 | 3°57 | 17°51 | 29° 0 | 0°51 | 0° 8 | 8°18 | S 5 |
| S 6 | 14 57 46 | 15°58'07 | 12°31 | 28°51 | 1°33 | 13°27 | 14°16 | 10°24 | 6°53 | 3°58 | 17°52 | 28°56 | 0°48 | 0°15 | 8°22 | S 6 |
| M 7 | 15 1 43 | 16°56'03 | 24°19 | 0♊48 | 2°47 | 13°18 | 14°10 | 10°23 | 6°56 | 3°59 | 17°53 | 28°D55 | 0°45 | 0°21 | 8°26 | M 7 |
| T 8 | 15 5 40 | 17°53'57 | 6♋10 | 2°44 | 4° 0 | 13° 9 | 14° 5 | 10°23 | 7° 0 | 4° 0 | 17°54 | 28°55 | 0°42 | 0°28 | 8°30 | T 8 |
| W 9 | 15 9 36 | 18°51'50 | 18° 9 | 4°36 | 5°14 | 12°58 | 13°59 | 10°22 | 7° 3 | 4° 1 | 17°55 | 28°56 | 0°38 | 0°35 | 8°34 | W 9 |
| T 10 | 15 13 33 | 19°49'41 | 0♌19 | 6°26 | 6°28 | 12°47 | 13°54 | 10°22 | 7° 6 | 4° 2 | 17°56 | 28°58 | 0°35 | 0°41 | 8°38 | T 10 |
| F 11 | 15 17 29 | 20°47'30 | 12°46 | 8°13 | 7°41 | 12°35 | 13°49 | 10°22 | 7°10 | 4° 3 | 17°57 | 28°59 | 0°32 | 0°48 | 8°42 | F 11 |
| S 12 | 15 21 26 | 21°45'18 | 25°33 | 9°57 | 8°55 | 12°23 | 13°44 | 10°D22 | 7°13 | 4° 4 | 17°58 | 28°R59 | 0°29 | 0°55 | 8°47 | S 12 |
| S 13 | 15 25 22 | 22°43'03 | 8♍45 | 11°37 | 10° 8 | 12° 9 | 13°40 | 10°22 | 7°17 | 4° 5 | 17°59 | 28°58 | 0°26 | 1° 1 | 8°50 | S 13 |
| M14 | 15 29 19 | 23°40'47 | 22°25 | 13°14 | 11°22 | 11°55 | 13°35 | 10°22 | 7°20 | 4° 5 | 18° 0 | 28°55 | 0°22 | 1° 8 | 8°54 | M14 |
| T 15 | 15 33 15 | 24°38'30 | 6♎33 | 14°48 | 12°35 | 11°41 | 13°31 | 10°22 | 7°23 | 4° 6 | 18° 1 | 28°51 | 0°19 | 1°15 | 8°58 | T 15 |
| W16 | 15 37 12 | 25°36'10 | 21° 8 | 16°19 | 13°49 | 11°26 | 13°27 | 10°23 | 7°27 | 4° 7 | 18° 2 | 28°47 | 0°16 | 1°21 | 9° 2 | W16 |
| T 17 | 15 41 9 | 26°33'50 | 6♏ 4 | 17°46 | 15° 3 | 11°10 | 13°23 | 10°23 | 7°30 | 4° 7 | 18° 3 | 28°42 | 0°13 | 1°28 | 9° 6 | T 17 |
| F 18 | 15 45 5 | 27°31'28 | 21°15 | 19°10 | 16°16 | 10°54 | 13°19 | 10°24 | 7°33 | 4° 8 | 18° 4 | 28°38 | 0°10 | 1°35 | 9°10 | F 18 |
| S 19 | 15 49 2 | 28°29'04 | 6♐30 | 20°31 | 17°30 | 10°37 | 13°15 | 10°25 | 7°37 | 4° 9 | 18° 5 | 28°35 | 0° 7 | 1°41 | 9°14 | S 19 |
| S 20 | 15 52 58 | 29°26'40 | 21°38 | 21°48 | 18°43 | 10°20 | 13°12 | 10°25 | 7°40 | 4° 9 | 18° 6 | 28°D34 | 0° 3 | 1°48 | 9°18 | S 20 |
| M21 | 15 56 55 | 0♊24'14 | 6♑32 | 23° 1 | 19°57 | 10° 2 | 13° 8 | 10°26 | 7°43 | 4°10 | 18° 7 | 28°34 | 0° 0 | 1°55 | 9°22 | M21 |
| T 22 | 16 0 51 | 1°21'48 | 21° 5 | 24°11 | 21°10 | 9°44 | 13° 5 | 10°27 | 7°46 | 4°10 | 18° 8 | 28°35 | 29♊57 | 2° 1 | 9°26 | T 22 |
| W23 | 16 4 48 | 2°19'20 | 5♒12 | 25°17 | 22°24 | 9°26 | 13° 2 | 10°28 | 7°50 | 4°11 | 18°10 | 28°37 | 29°54 | 2° 8 | 9°30 | W23 |
| T 24 | 16 8 44 | 3°16'52 | 18°54 | 26°19 | 23°37 | 9° 7 | 12°59 | 10°30 | 7°53 | 4°11 | 18°11 | 28°38 | 29°51 | 2°15 | 9°34 | T 24 |
| F 25 | 16 12 41 | 4°14'22 | 2♓10 | 27°17 | 24°51 | 8°47 | 12°56 | 10°31 | 7°56 | 4°12 | 18°12 | 28°R39 | 29°48 | 2°21 | 9°37 | F 25 |
| S 26 | 16 16 38 | 5°11'52 | 15° 4 | 28°12 | 26° 5 | 8°28 | 12°54 | 10°32 | 7°59 | 4°12 | 18°13 | 28°38 | 29°44 | 2°28 | 9°41 | S 26 |
| S 27 | 16 20 34 | 6° 9'21 | 27°40 | 29° 3 | 27°18 | 8° 8 | 12°51 | 10°34 | 8° 2 | 4°12 | 18°14 | 28°37 | 29°41 | 2°34 | 9°45 | S 27 |
| M28 | 16 24 31 | 7° 6'49 | 9♈59 | 29°49 | 28°32 | 7°48 | 12°49 | 10°35 | 8° 5 | 4°13 | 18°16 | 28°34 | 29°38 | 2°41 | 9°49 | M28 |
| T 29 | 16 28 27 | 8° 4'17 | 22° 7 | 0♋32 | 29°45 | 7°28 | 12°47 | 10°37 | 8° 9 | 4°13 | 18°17 | 28°32 | 29°35 | 2°48 | 9°52 | T 29 |
| W30 | 16 32 24 | 9° 1'43 | 4♉ 5 | 1°10 | 0♊59 | 7° 8 | 12°45 | 10°39 | 8°12 | 4°13 | 18°18 | 28°28 | 29°32 | 2°54 | 9°56 | W30 |
| T 31 | 16 36 20 | 9♊59'09 | 15♉58 | 1♋44 | 2♊12 | 6♐47 | 12♎44 | 10♍41 | 8♉15 | 4♓13 | 18♋20 | 28♊25 | 29♊28 | 3♊ 1 | 10♉ 0 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 15n12 | 0n31 | 4s59 | 18n 9 | 0n49 | 8n32 | 1s25 | 23s 1 | 0s30 | 4s24 | 1n33 | 9n40 | 2n10 | 13n20 | 0s26 | 10s46 | 0s43 | 23n13 | 0n56 | 23n29 | 23n29 | 17n30 | 13n 0 | 1s17 | T 1 |
| W 2 | 15 30 | 5 24 | 4 37 | 18 53 | 0 59 | 9 0 | 1 24 | 23 4 | 0 33 | 4 21 | 1 33 | 9 40 | 2 10 | 13 21 | 0 26 | 10 46 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 32 | 13 1 | 1 17 | W 2 |
| T 3 | 15 47 | 10 2 | 4 3 | 19 36 | 1 9 | 9 27 | 1 23 | 23 6 | 0 36 | 4 19 | 1 33 | 9 40 | 2 10 | 13 22 | 0 26 | 10 45 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 34 | 13 2 | 1 17 | T 3 |
| F 4 | 16 5 | 14 17 | 3 19 | 20 16 | 1 18 | 9 54 | 1 21 | 23 8 | 0 39 | 4 17 | 1 33 | 9 40 | 2 10 | 13 23 | 0 26 | 10 45 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 36 | 13 3 | 1 17 | F 4 |
| S 5 | 16 22 | 17 57 | 2 27 | 20 54 | 1 27 | 10 21 | 1 20 | 23 10 | 0 42 | 4 15 | 1 32 | 9 41 | 2 10 | 13 25 | 0 26 | 10 45 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 38 | 13 5 | 1 17 | S 5 |
| S 6 | 16 39 | 20 53 | 1 28 | 21 29 | 1 35 | 10 48 | 1 19 | 23 12 | 0 45 | 4 13 | 1 32 | 9 41 | 2 9 | 13 26 | 0 26 | 10 44 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 40 | 13 6 | 1 18 | S 6 |
| M 7 | 16 55 | 22 57 | 0 25 | 22 2 | 1 43 | 11 14 | 1 18 | 23 14 | 0 48 | 4 11 | 1 32 | 9 41 | 2 9 | 13 27 | 0 26 | 10 44 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 43 | 13 7 | 1 18 | M 7 |
| T 8 | 17 12 | 24 0 | 0n39 | 22 33 | 1 50 | 11 41 | 1 16 | 23 16 | 0 52 | 4 9 | 1 32 | 9 41 | 2 9 | 13 28 | 0 26 | 10 44 | 0 43 | 23 13 | 0 56 | 23 29 | 23 29 | 17 45 | 13 8 | 1 18 | T 8 |
| W 9 | 17 28 | 23 57 | 1 43 | 23 0 | 1 57 | 12 7 | 1 15 | 23 18 | 0 55 | 4 7 | 1 32 | 9 41 | 2 9 | 13 29 | 0 26 | 10 43 | 0 43 | 23 12 | 0 56 | 23 29 | 23 29 | 17 47 | 13 9 | 1 18 | W 9 |
| T 10 | 17 43 | 22 46 | 2 43 | 23 26 | 2 2 | 12 32 | 1 13 | 23 20 | 0 58 | 4 5 | 1 31 | 9 41 | 2 9 | 13 30 | 0 26 | 10 43 | 0 43 | 23 12 | 0 56 | 23 29 | 23 29 | 17 49 | 13 11 | 1 18 | T 10 |
| F 11 | 17 59 | 20 28 | 3 36 | 23 49 | 2 7 | 12 58 | 1 12 | 23 22 | 1 1 | 4 4 | 1 31 | 9 41 | 2 9 | 13 31 | 0 26 | 10 43 | 0 43 | 23 12 | 0 56 | 23 29 | 23 29 | 17 51 | 13 12 | 1 18 | F 11 |
| S 12 | 18 14 | 17 7 | 4 21 | 24 9 | 2 12 | 13 23 | 1 10 | 23 23 | 1 5 | 4 2 | 1 31 | 9 40 | 2 8 | 13 32 | 0 26 | 10 43 | 0 43 | 23 12 | 0 56 | 23 29 | 23 29 | 17 53 | 13 13 | 1 18 | S 12 |
| S 13 | 18 29 | 12 49 | 4 53 | 24 27 | 2 15 | 13 48 | 1 9 | 23 25 | 1 8 | 4 0 | 1 31 | 9 40 | 2 8 | 13 33 | 0 26 | 10 42 | 0 43 | 23 12 | 0 56 | 23 29 | 23 29 | 17 55 | 13 14 | 1 18 | S 13 |
| M14 | 18 43 | 7 46 | 5 10 | 24 42 | 2 18 | 14 12 | 1 7 | 23 26 | 1 11 | 3 59 | 1 31 | 9 40 | 2 8 | 13 35 | 0 26 | 10 42 | 0 43 | 23 12 | 0 56 | 23 29 | 23 29 | 17 57 | 13 15 | 1 18 | M14 |
| T 15 | 18 58 | 2 8 | 5 9 | 24 55 | 2 19 | 14 36 | 1 5 | 23 28 | 1 15 | 3 57 | 1 30 | 9 40 | 2 8 | 13 36 | 0 26 | 10 42 | 0 43 | 23 12 | 0 56 | 23 29 | 23 29 | 17 59 | 13 16 | 1 18 | T 15 |
| W16 | 19 12 | 3s48 | 4 49 | 25 6 | 2 20 | 15 0 | 1 4 | 23 29 | 1 18 | 3 56 | 1 30 | 9 40 | 2 8 | 13 37 | 0 26 | 10 42 | 0 44 | 23 12 | 0 57 | 23 28 | 23 29 | 18 2 | 13 18 | 1 19 | W16 |
| T 17 | 19 25 | 9 39 | 4 9 | 25 15 | 2 20 | 15 23 | 1 2 | 23 30 | 1 22 | 3 54 | 1 30 | 9 39 | 2 8 | 13 38 | 0 26 | 10 41 | 0 44 | 23 12 | 0 57 | 23 28 | 23 29 | 18 4 | 13 19 | 1 19 | T 17 |
| F 18 | 19 38 | 15 2 | 3 10 | 25 21 | 2 20 | 15 46 | 1 0 | 23 31 | 1 25 | 3 53 | 1 30 | 9 39 | 2 7 | 13 39 | 0 26 | 10 41 | 0 44 | 23 12 | 0 57 | 23 28 | 23 29 | 18 6 | 13 20 | 1 19 | F 18 |
| S 19 | 19 51 | 19 29 | 1 58 | 25 26 | 2 18 | 16 9 | 0 58 | 23 32 | 1 29 | 3 52 | 1 29 | 9 38 | 2 7 | 13 40 | 0 26 | 10 41 | 0 44 | 23 12 | 0 57 | 23 28 | 23 29 | 18 8 | 13 21 | 1 19 | S 19 |
| S 20 | 20 4 | 22 35 | 0 38 | 25 29 | 2 15 | 16 31 | 0 56 | 23 33 | 1 32 | 3 51 | 1 29 | 9 38 | 2 7 | 13 41 | 0 26 | 10 41 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 10 | 13 22 | 1 19 | S 20 |
| M21 | 20 16 | 24 3 | 0s44 | 25 30 | 2 12 | 16 53 | 0 54 | 23 34 | 1 36 | 3 50 | 1 29 | 9 37 | 2 7 | 13 42 | 0 26 | 10 41 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 12 | 13 23 | 1 19 | M21 |
| T 22 | 20 28 | 23 49 | 2 1 | 25 29 | 2 8 | 17 15 | 0 52 | 23 35 | 1 39 | 3 49 | 1 29 | 9 37 | 2 7 | 13 43 | 0 26 | 10 41 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 14 | 13 24 | 1 19 | T 22 |
| W23 | 20 40 | 22 2 | 3 8 | 25 26 | 2 3 | 17 35 | 0 50 | 23 36 | 1 43 | 3 48 | 1 29 | 9 36 | 2 7 | 13 44 | 0 26 | 10 40 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 16 | 13 26 | 1 19 | W23 |
| T 24 | 20 51 | 19 1 | 4 2 | 25 23 | 1 57 | 17 56 | 0 48 | 23 36 | 1 46 | 3 47 | 1 28 | 9 36 | 2 6 | 13 45 | 0 26 | 10 40 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 18 | 13 27 | 1 19 | T 24 |
| F 25 | 21 2 | 15 6 | 4 42 | 25 17 | 1 50 | 18 16 | 0 46 | 23 36 | 1 50 | 3 46 | 1 28 | 9 35 | 2 6 | 13 46 | 0 26 | 10 40 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 20 | 13 28 | 1 20 | F 25 |
| S 26 | 21 12 | 10 35 | 5 6 | 25 11 | 1 42 | 18 36 | 0 44 | 23 37 | 1 53 | 3 45 | 1 28 | 9 34 | 2 6 | 13 47 | 0 26 | 10 40 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 22 | 13 29 | 1 20 | S 26 |
| S 27 | 21 22 | 5 45 | 5 15 | 25 3 | 1 34 | 18 55 | 0 42 | 23 37 | 1 56 | 3 45 | 1 27 | 9 34 | 2 6 | 13 48 | 0 26 | 10 40 | 0 44 | 23 11 | 0 57 | 23 28 | 23 29 | 18 24 | 13 30 | 1 20 | S 27 |
| M28 | 21 32 | 0 46 | 5 9 | 24 53 | 1 25 | 19 13 | 0 40 | 23 37 | 2 0 | 3 44 | 1 27 | 9 33 | 2 6 | 13 49 | 0 26 | 10 40 | 0 44 | 23 10 | 0 57 | 23 28 | 23 29 | 18 26 | 13 31 | 1 20 | M28 |
| T 29 | 21 41 | 4n 9 | 4 49 | 24 43 | 1 15 | 19 31 | 0 37 | 23 37 | 2 3 | 3 43 | 1 27 | 9 32 | 2 6 | 13 50 | 0 26 | 10 40 | 0 44 | 23 10 | 0 57 | 23 28 | 23 29 | 18 28 | 13 32 | 1 20 | T 29 |
| W30 | 21 50 | 8 53 | 4 16 | 24 32 | 1 4 | 19 49 | 0 35 | 23 37 | 2 6 | 3 43 | 1 27 | 9 31 | 2 5 | 13 51 | 0 26 | 10 40 | 0 44 | 23 10 | 0 57 | 23 28 | 23 29 | 18 31 | 13 33 | 1 20 | W30 |
| T 31 | 21n59 | 13n14 | 3s33 | 24n20 | 0n52 | 20n 6 | 0s33 | 23s37 | 2s10 | 3s43 | 1n26 | 9n30 | 2n 5 | 13n52 | 0s26 | 10s40 | 0s44 | 23n10 | 0n57 | 23n28 | 23n29 | 18n33 | 13n34 | 1s20 | T 31 |

Julian Day Number = 2336614.5, Delta T = 20.74 sec
Ecliptic obliquity = 23°28'49, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'52, Lahiri = 19°27'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## JUNE 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 40 17 | 10♊56'34 | 27♉47 | 2♋14 | 3♊26 | 6°R27 | 12°R42 | 10♍43 | 8♉18 | 4♓13 | 18♋21 | 28°R23 | 29♊25 | 3♊ 8 | 10♉ 3 | F 1 |
| S 2 | 16 44 13 | 11°53'59 | 9♊34 | 2°40 | 4°40 | 6♐ 7 | 12♎41 | 10°45 | 8°21 | 4°14 | 18°22 | 28♊21 | 29°22 | 3°14 | 10° 7 | S 2 |
| S 3 | 16 48 10 | 12°51'22 | 21°23 | 3° 0 | 5°53 | 5°47 | 12°40 | 10°47 | 8°24 | 4°14 | 18°23 | 28°20 | 29°19 | 3°21 | 10°11 | S 3 |
| M 4 | 16 52 7 | 13°48'45 | 3♋15 | 3°17 | 7° 7 | 5°27 | 12°39 | 10°49 | 8°27 | 4°14 | 18°25 | 28°D20 | 29°16 | 3°28 | 10°14 | M 4 |
| T 5 | 16 56 3 | 14°46'07 | 15°13 | 3°28 | 8°20 | 5° 7 | 12°38 | 10°52 | 8°30 | 4°14 | 18°26 | 28°21 | 29°13 | 3°34 | 10°18 | T 5 |
| W 6 | 17 0 0 | 15°43'28 | 27°19 | 3°36 | 9°34 | 4°47 | 12°38 | 10°54 | 8°33 | 4°R14 | 18°28 | 28°22 | 29° 9 | 3°41 | 10°21 | W 6 |
| T 7 | 17 3 56 | 16°40'48 | 9♌36 | 3°R38 | 10°48 | 4°28 | 12°37 | 10°57 | 8°36 | 4°14 | 18°29 | 28°23 | 29° 6 | 3°48 | 10°25 | T 7 |
| F 8 | 17 7 53 | 17°38'07 | 22° 8 | 3°36 | 12° 1 | 4° 9 | 12°37 | 10°59 | 8°39 | 4°14 | 18°30 | 28°24 | 29° 3 | 3°54 | 10°28 | F 8 |
| S 9 | 17 11 49 | 18°35'25 | 4♍57 | 3°30 | 13°15 | 3°50 | 12°D37 | 11° 2 | 8°41 | 4°14 | 18°32 | 28°25 | 29° 0 | 4° 1 | 10°32 | S 9 |
| S 10 | 17 15 46 | 19°32'42 | 18° 7 | 3°19 | 14°29 | 3°32 | 12°37 | 11° 5 | 8°44 | 4°14 | 18°33 | 28°R25 | 28°57 | 4° 8 | 10°35 | S 10 |
| M11 | 17 19 42 | 20°29'59 | 1♎40 | 3° 5 | 15°42 | 3°14 | 12°38 | 11° 8 | 8°47 | 4°13 | 18°35 | 28°25 | 28°54 | 4°14 | 10°38 | M11 |
| T 12 | 17 23 39 | 21°27'14 | 15°38 | 2°46 | 16°56 | 2°57 | 12°38 | 11°11 | 8°50 | 4°13 | 18°36 | 28°24 | 28°50 | 4°21 | 10°42 | T 12 |
| W13 | 17 27 36 | 22°24'29 | 29°59 | 2°24 | 18° 9 | 2°40 | 12°39 | 11°14 | 8°52 | 4°13 | 18°38 | 28°24 | 28°47 | 4°28 | 10°45 | W13 |
| T 14 | 17 31 32 | 23°21'42 | 14♏43 | 1°58 | 19°23 | 2°24 | 12°40 | 11°17 | 8°55 | 4°13 | 18°39 | 28°23 | 28°44 | 4°34 | 10°48 | T 14 |
| F 15 | 17 35 29 | 24°18'56 | 29°42 | 1°30 | 20°37 | 2° 8 | 12°41 | 11°21 | 8°58 | 4°12 | 18°40 | 28°23 | 28°41 | 4°41 | 10°52 | F 15 |
| S 16 | 17 39 25 | 25°16'08 | 14♐49 | 0°59 | 21°50 | 1°53 | 12°42 | 11°24 | 9° 1 | 4°12 | 18°42 | 28°22 | 28°38 | 4°48 | 10°55 | S 16 |
| S 17 | 17 43 22 | 26°13'21 | 29°55 | 0°26 | 23° 4 | 1°38 | 12°43 | 11°28 | 9° 3 | 4°12 | 18°43 | 28°D22 | 28°34 | 4°54 | 10°58 | S 17 |
| M18 | 17 47 18 | 27°10'32 | 14♑52 | 29♊52 | 24°18 | 1°25 | 12°45 | 11°31 | 9° 6 | 4°11 | 18°45 | 28°22 | 28°31 | 5° 1 | 11° 1 | M18 |
| T 19 | 17 51 15 | 28° 7'44 | 29°31 | 29°17 | 25°31 | 1°11 | 12°47 | 11°35 | 9° 8 | 4°11 | 18°46 | 28°R23 | 28°28 | 5° 8 | 11° 4 | T 19 |
| W20 | 17 55 12 | 29° 4'56 | 13♒47 | 28°42 | 26°45 | 0°59 | 12°49 | 11°39 | 9°11 | 4°11 | 18°48 | 28°23 | 28°25 | 5°14 | 11° 7 | W20 |
| T 21 | 17 59 8 | 0♋ 2'07 | 27°38 | 28° 7 | 27°59 | 0°47 | 12°51 | 11°43 | 9°13 | 4°10 | 18°50 | 28°22 | 28°22 | 5°21 | 11°10 | T 21 |
| F 22 | 18 3 5 | 0°59'18 | 11♓ 1 | 27°34 | 29°12 | 0°36 | 12°53 | 11°46 | 9°16 | 4°10 | 18°51 | 28°22 | 28°19 | 5°28 | 11°13 | F 22 |
| S 23 | 18 7 1 | 1°56'29 | 24° 0 | 27° 1 | 0♋26 | 0°26 | 12°55 | 11°50 | 9°18 | 4° 9 | 18°53 | 28°22 | 28°15 | 5°34 | 11°16 | S 23 |
| S 24 | 18 10 58 | 2°53'41 | 6♈37 | 26°31 | 1°40 | 0°17 | 12°58 | 11°55 | 9°20 | 4° 9 | 18°54 | 28°D22 | 28°12 | 5°41 | 11°19 | S 24 |
| M25 | 18 14 54 | 3°50'52 | 18°55 | 26° 4 | 2°53 | 0° 8 | 13° 1 | 11°59 | 9°23 | 4° 8 | 18°56 | 28°22 | 28° 9 | 5°48 | 11°22 | M25 |
| T 26 | 18 18 51 | 4°48'04 | 0♉59 | 25°40 | 4° 7 | 0° 0 | 13° 4 | 12° 3 | 9°25 | 4° 7 | 18°57 | 28°23 | 28° 6 | 5°54 | 11°25 | T 26 |
| W27 | 18 22 47 | 5°45'15 | 12°54 | 25°19 | 5°21 | 29♏53 | 13° 7 | 12° 7 | 9°27 | 4° 7 | 18°59 | 28°23 | 28° 3 | 6° 1 | 11°27 | W27 |
| T 28 | 18 26 44 | 6°42'27 | 24°43 | 25° 2 | 6°35 | 29°47 | 13°10 | 12°12 | 9°30 | 4° 6 | 19° 0 | 28°24 | 28° 0 | 6° 8 | 11°30 | T 28 |
| F 29 | 18 30 41 | 7°39'39 | 6♊31 | 24°50 | 7°48 | 29°42 | 13°14 | 12°16 | 9°32 | 4° 5 | 19° 2 | 28°25 | 27°56 | 6°14 | 11°33 | F 29 |
| S 30 | 18 34 37 | 8♋36'52 | 18♊20 | 24♊42 | 9♋ 2 | 29♏38 | 13♎17 | 12♍21 | 9♉34 | 4♓ 5 | 19♋ 4 | 28♊26 | 27♊53 | 6♊21 | 11♉36 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 22n 7 | 17n 5 | 2s41 | 24n 7 | 0n39 | 20n22 | 0s31 | 23s36 | 2s13 | 3s42 | 1n26 | 9n29 | 2n 5 | 13n53 | 0s26 | 10s40 | 0s44 | 23n10 | 0n57 | 23n28 | 23n29 | 18n35 | 13n35 | 1s20 |
| S 2 | 22 15 | 20 15 | 1 42 | 23 53 | 0 26 | 20 38 | 0 28 | 23 36 | 2 16 | 3 42 | 1 26 | 9 28 | 2 5 | 13 54 | 0 26 | 10 40 | 0 44 | 23 10 | 0 57 | 23 28 | 23 29 | 18 37 | 13 36 | 1 21 |
| S 3 | 22 23 | 22 34 | 0 38 | 23 39 | 0 12 | 20 54 | 0 26 | 23 35 | 2 19 | 3 42 | 1 26 | 9 27 | 2 5 | 13 55 | 0 26 | 10 40 | 0 44 | 23 10 | 0 57 | 23 28 | 23 29 | 18 39 | 13 37 | 1 21 |
| M 4 | 22 30 | 23 54 | 0n27 | 23 24 | 0s 2 | 21 9 | 0 24 | 23 35 | 2 22 | 3 42 | 1 25 | 9 26 | 2 5 | 13 56 | 0 26 | 10 40 | 0 44 | 23 10 | 0 57 | 23 28 | 23 29 | 18 41 | 13 38 | 1 21 |
| T 5 | 22 37 | 24 8 | 1 32 | 23 9 | 0 17 | 21 23 | 0 21 | 23 34 | 2 25 | 3 42 | 1 25 | 9 25 | 2 4 | 13 57 | 0 26 | 10 40 | 0 44 | 23 9 | 0 57 | 23 28 | 23 29 | 18 43 | 13 39 | 1 21 |
| W 6 | 22 43 | 23 15 | 2 34 | 22 53 | 0 33 | 21 36 | 0 19 | 23 33 | 2 28 | 3 42 | 1 25 | 9 24 | 2 4 | 13 58 | 0 26 | 10 40 | 0 44 | 23 9 | 0 58 | 23 28 | 23 29 | 18 45 | 13 40 | 1 21 |
| T 7 | 22 49 | 21 14 | 3 29 | 22 37 | 0 49 | 21 50 | 0 17 | 23 33 | 2 31 | 3 42 | 1 25 | 9 23 | 2 4 | 13 59 | 0 26 | 10 40 | 0 44 | 23 9 | 0 58 | 23 28 | 23 29 | 18 47 | 13 41 | 1 21 |
| F 8 | 22 54 | 18 11 | 4 16 | 22 21 | 1 5 | 22 2 | 0 14 | 23 32 | 2 34 | 3 42 | 1 24 | 9 22 | 2 4 | 14 0 | 0 26 | 10 40 | 0 44 | 23 9 | 0 58 | 23 28 | 23 29 | 18 49 | 13 42 | 1 21 |
| S 9 | 22 59 | 14 13 | 4 51 | 22 4 | 1 22 | 22 14 | 0 12 | 23 31 | 2 37 | 3 42 | 1 24 | 9 21 | 2 4 | 14 1 | 0 26 | 10 40 | 0 44 | 23 9 | 0 58 | 23 28 | 23 29 | 18 51 | 13 43 | 1 21 |
| S 10 | 23 4 | 9 30 | 5 12 | 21 48 | 1 39 | 22 25 | 0 10 | 23 30 | 2 39 | 3 42 | 1 24 | 9 20 | 2 4 | 14 2 | 0 26 | 10 40 | 0 44 | 23 9 | 0 58 | 23 28 | 23 29 | 18 53 | 13 44 | 1 22 |
| M11 | 23 8 | 4 11 | 5 17 | 21 31 | 1 56 | 22 35 | 0 7 | 23 29 | 2 42 | 3 43 | 1 24 | 9 18 | 2 3 | 14 3 | 0 26 | 10 40 | 0 44 | 23 9 | 0 58 | 23 28 | 23 29 | 18 55 | 13 45 | 1 22 |
| T 12 | 23 12 | 1s30 | 5 3 | 21 15 | 2 12 | 22 45 | 0 5 | 23 28 | 2 44 | 3 43 | 1 23 | 9 17 | 2 3 | 14 3 | 0 26 | 10 40 | 0 44 | 23 8 | 0 58 | 23 28 | 23 29 | 18 57 | 13 46 | 1 22 |
| W13 | 23 16 | 7 16 | 4 31 | 20 59 | 2 29 | 22 55 | 0 2 | 23 27 | 2 47 | 3 44 | 1 23 | 9 16 | 2 3 | 14 4 | 0 26 | 10 40 | 0 44 | 23 8 | 0 58 | 23 28 | 23 28 | 18 59 | 13 47 | 1 22 |
| T 14 | 23 19 | 12 47 | 3 40 | 20 43 | 2 45 | 23 3 | 0 0 | 23 26 | 2 49 | 3 44 | 1 23 | 9 14 | 2 3 | 14 5 | 0 26 | 10 40 | 0 45 | 23 8 | 0 58 | 23 28 | 23 28 | 19 1 | 13 48 | 1 22 |
| F 15 | 23 21 | 17 38 | 2 33 | 20 28 | 3 1 | 23 11 | 0n 2 | 23 25 | 2 51 | 3 45 | 1 22 | 9 13 | 2 3 | 14 6 | 0 26 | 10 40 | 0 45 | 23 8 | 0 58 | 23 28 | 23 28 | 19 3 | 13 48 | 1 22 |
| S 16 | 23 24 | 21 23 | 1 15 | 20 13 | 3 16 | 23 18 | 0 5 | 23 24 | 2 54 | 3 46 | 1 22 | 9 11 | 2 3 | 14 7 | 0 26 | 10 41 | 0 45 | 23 8 | 0 58 | 23 28 | 23 28 | 19 5 | 13 49 | 1 22 |
| S 17 | 23 26 | 23 37 | 0s 9 | 19 59 | 3 30 | 23 25 | 0 7 | 23 24 | 2 56 | 3 47 | 1 22 | 9 10 | 2 2 | 14 8 | 0 26 | 10 41 | 0 45 | 23 8 | 0 58 | 23 28 | 23 28 | 19 7 | 13 50 | 1 23 |
| M18 | 23 27 | 24 9 | 1 30 | 19 46 | 3 43 | 23 31 | 0 9 | 23 23 | 2 58 | 3 47 | 1 22 | 9 8 | 2 2 | 14 9 | 0 26 | 10 41 | 0 45 | 23 8 | 0 58 | 23 28 | 23 28 | 19 9 | 13 51 | 1 23 |
| T 19 | 23 28 | 22 58 | 2 45 | 19 34 | 3 55 | 23 36 | 0 12 | 23 22 | 3 0 | 3 48 | 1 21 | 9 7 | 2 2 | 14 9 | 0 26 | 10 41 | 0 45 | 23 7 | 0 58 | 23 28 | 23 28 | 19 11 | 13 52 | 1 23 |
| W20 | 23 29 | 20 20 | 3 47 | 19 23 | 4 6 | 23 41 | 0 14 | 23 21 | 3 2 | 3 49 | 1 21 | 9 5 | 2 2 | 14 10 | 0 26 | 10 41 | 0 45 | 23 7 | 0 58 | 23 28 | 23 28 | 19 13 | 13 53 | 1 23 |
| T 21 | 23 29 | 16 35 | 4 33 | 19 13 | 4 15 | 23 44 | 0 16 | 23 20 | 3 3 | 3 50 | 1 21 | 9 4 | 2 2 | 14 11 | 0 26 | 10 42 | 0 45 | 23 7 | 0 58 | 23 28 | 23 28 | 19 15 | 13 53 | 1 23 |
| F 22 | 23 29 | 12 7 | 5 3 | 19 4 | 4 23 | 23 47 | 0 19 | 23 20 | 3 5 | 3 52 | 1 21 | 9 2 | 2 2 | 14 12 | 0 26 | 10 42 | 0 45 | 23 7 | 0 58 | 23 28 | 23 28 | 19 17 | 13 54 | 1 23 |
| S 23 | 23 28 | 7 14 | 5 17 | 18 57 | 4 30 | 23 50 | 0 21 | 23 19 | 3 7 | 3 53 | 1 20 | 9 0 | 2 2 | 14 12 | 0 26 | 10 42 | 0 45 | 23 7 | 0 58 | 23 28 | 23 28 | 19 19 | 13 55 | 1 23 |
| S 24 | 23 27 | 2 11 | 5 14 | 18 51 | 4 35 | 23 52 | 0 23 | 23 19 | 3 8 | 3 54 | 1 20 | 8 59 | 2 1 | 14 13 | 0 26 | 10 42 | 0 45 | 23 7 | 0 58 | 23 28 | 23 28 | 19 21 | 13 56 | 1 24 |
| M25 | 23 25 | 2n50 | 4 58 | 18 47 | 4 38 | 23 53 | 0 26 | 23 18 | 3 10 | 3 55 | 1 20 | 8 57 | 2 1 | 14 14 | 0 26 | 10 42 | 0 45 | 23 6 | 0 59 | 23 28 | 23 28 | 19 23 | 13 56 | 1 24 |
| T 26 | 23 24 | 7 39 | 4 28 | 18 44 | 4 40 | 23 53 | 0 28 | 23 18 | 3 11 | 3 57 | 1 19 | 8 55 | 2 1 | 14 15 | 0 26 | 10 43 | 0 45 | 23 6 | 0 59 | 23 28 | 23 28 | 19 25 | 13 57 | 1 24 |
| W27 | 23 21 | 12 8 | 3 47 | 18 43 | 4 41 | 23 52 | 0 30 | 23 18 | 3 13 | 3 58 | 1 19 | 8 53 | 2 1 | 14 15 | 0 26 | 10 43 | 0 45 | 23 6 | 0 59 | 23 28 | 23 28 | 19 27 | 13 58 | 1 24 |
| T 28 | 23 19 | 16 8 | 2 56 | 18 44 | 4 40 | 23 51 | 0 32 | 23 18 | 3 14 | 4 0 | 1 19 | 8 52 | 2 1 | 14 16 | 0 26 | 10 43 | 0 45 | 23 6 | 0 59 | 23 28 | 23 28 | 19 28 | 13 58 | 1 24 |
| F 29 | 23 15 | 19 29 | 1 59 | 18 45 | 4 38 | 23 49 | 0 35 | 23 18 | 3 15 | 4 1 | 1 19 | 8 50 | 2 1 | 14 17 | 0 26 | 10 44 | 0 45 | 23 6 | 0 59 | 23 28 | 23 28 | 19 30 | 13 59 | 1 24 |
| S 30 | 23n12 | 22n 2 | 0s56 | 18n49 | 4s34 | 23n47 | 0n37 | 23s18 | 3s16 | 4s 3 | 1n18 | 8n48 | 2n 1 | 14n17 | 0s26 | 10s44 | 0s45 | 23n 6 | 0n59 | 23n28 | 23n28 | 19n32 | 14n 0 | 1s24 |

Julian Day Number = 2336645.5, Delta T = 20.70 sec
Ecliptic obliquity = 23°28'48, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°20'57, Lahiri = 19°27'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## JULY 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 38 34 | 9♋34'04 | 0♋13 | 24°D39 | 10♋16 | 29°R34 | 13♎21 | 12♍25 | 9♉36 | 4°R 4 | 19♋ 5 | 28°R26 | 27♊50 | 6♊28 | 11♉38 | S 1 |
| M 2 | 18 42 30 | 10°31'17 | 12°13 | 24♊40 | 11°30 | 29♏31 | 13°25 | 12°30 | 9°38 | 4♓ 3 | 19° 7 | 28♊25 | 27°47 | 6°34 | 11°41 | M 2 |
| T 3 | 18 46 27 | 11°28'29 | 24°22 | 24°47 | 12°43 | 29°29 | 13°29 | 12°35 | 9°40 | 4° 2 | 19° 8 | 28°24 | 27°44 | 6°41 | 11°43 | T 3 |
| W 4 | 18 50 23 | 12°25'42 | 6♌41 | 24°59 | 13°57 | 29°28 | 13°33 | 12°40 | 9°42 | 4° 1 | 19°10 | 28°23 | 27°40 | 6°48 | 11°46 | W 4 |
| T 5 | 18 54 20 | 13°22'55 | 19°12 | 25°16 | 15°11 | 29°D28 | 13°38 | 12°45 | 9°44 | 4° 1 | 19°12 | 28°21 | 27°37 | 6°54 | 11°48 | T 5 |
| F 6 | 18 58 16 | 14°20'08 | 1♍57 | 25°38 | 16°25 | 29°28 | 13°42 | 12°50 | 9°46 | 4° 0 | 19°13 | 28°19 | 27°34 | 7° 1 | 11°50 | F 6 |
| S 7 | 19 2 13 | 15°17'20 | 14°57 | 26° 6 | 17°39 | 29°30 | 13°47 | 12°55 | 9°48 | 3°59 | 19°15 | 28°17 | 27°31 | 7° 7 | 11°53 | S 7 |
| S 8 | 19 6 10 | 16°14'33 | 28°12 | 26°39 | 18°53 | 29°32 | 13°52 | 13° 0 | 9°50 | 3°58 | 19°16 | 28°15 | 27°28 | 7°14 | 11°55 | S 8 |
| M 9 | 19 10 6 | 17°11'46 | 11♎45 | 27°17 | 20° 6 | 29°35 | 13°57 | 13° 5 | 9°52 | 3°57 | 19°18 | 28°D14 | 27°25 | 7°21 | 11°57 | M 9 |
| T 10 | 19 14 3 | 18° 8'59 | 25°36 | 28° 0 | 21°20 | 29°39 | 14° 2 | 13°10 | 9°53 | 3°56 | 19°20 | 28°14 | 27°21 | 7°27 | 11°59 | T 10 |
| W11 | 19 17 59 | 19° 6'11 | 9♏45 | 28°48 | 22°34 | 29°44 | 14° 8 | 13°16 | 9°55 | 3°55 | 19°21 | 28°15 | 27°18 | 7°34 | 12° 2 | W11 |
| T 12 | 19 21 56 | 20° 3'24 | 24°10 | 29°42 | 23°48 | 29°50 | 14°13 | 13°21 | 9°57 | 3°54 | 19°23 | 28°16 | 27°15 | 7°41 | 12° 4 | T 12 |
| F 13 | 19 25 52 | 21° 0'38 | 8♐48 | 0♋40 | 25° 2 | 29°56 | 14°19 | 13°27 | 9°58 | 3°53 | 19°24 | 28°18 | 27°12 | 7°47 | 12° 6 | F 13 |
| S 14 | 19 29 49 | 21°57'51 | 23°35 | 1°43 | 26°16 | 0♐ 3 | 14°25 | 13°32 | 10° 0 | 3°52 | 19°26 | 28°R18 | 27° 9 | 7°54 | 12° 8 | S 14 |
| S 15 | 19 33 45 | 22°55'05 | 8♑25 | 2°52 | 27°29 | 0°11 | 14°31 | 13°38 | 10° 1 | 3°50 | 19°28 | 28°18 | 27° 6 | 8° 1 | 12°10 | S 15 |
| M16 | 19 37 42 | 23°52'19 | 23°10 | 4° 5 | 28°43 | 0°20 | 14°37 | 13°43 | 10° 3 | 3°49 | 19°29 | 28°17 | 27° 2 | 8° 7 | 12°11 | M16 |
| T 17 | 19 41 39 | 24°49'34 | 7♒43 | 5°22 | 29°57 | 0°29 | 14°43 | 13°49 | 10° 4 | 3°48 | 19°31 | 28°14 | 26°59 | 8°14 | 12°13 | T 17 |
| W18 | 19 45 35 | 25°46'50 | 21°58 | 6°45 | 1♌11 | 0°39 | 14°49 | 13°55 | 10° 6 | 3°47 | 19°32 | 28°10 | 26°56 | 8°21 | 12°15 | W18 |
| T 19 | 19 49 32 | 26°44'06 | 5♓50 | 8°11 | 2°25 | 0°50 | 14°56 | 14° 1 | 10° 7 | 3°46 | 19°34 | 28° 6 | 26°53 | 8°27 | 12°17 | T 19 |
| F 20 | 19 53 28 | 27°41'23 | 19°18 | 9°43 | 3°39 | 1° 2 | 15° 2 | 14° 7 | 10° 8 | 3°44 | 19°36 | 28° 2 | 26°50 | 8°34 | 12°18 | F 20 |
| S 21 | 19 57 25 | 28°38'40 | 2♈20 | 11°18 | 4°53 | 1°14 | 15° 9 | 14°13 | 10°10 | 3°43 | 19°37 | 27°59 | 26°46 | 8°41 | 12°20 | S 21 |
| S 22 | 20 1 21 | 29°35'59 | 14°59 | 12°57 | 6° 7 | 1°27 | 15°16 | 14°19 | 10°11 | 3°42 | 19°39 | 27°57 | 26°43 | 8°47 | 12°21 | S 22 |
| M23 | 20 5 18 | 0♌33'19 | 27°19 | 14°40 | 7°21 | 1°40 | 15°23 | 14°25 | 10°12 | 3°41 | 19°40 | 27°D56 | 26°40 | 8°54 | 12°23 | M23 |
| T 24 | 20 9 14 | 1°30'40 | 9♉24 | 16°27 | 8°35 | 1°55 | 15°30 | 14°31 | 10°13 | 3°39 | 19°42 | 27°56 | 26°37 | 9° 1 | 12°24 | T 24 |
| W25 | 20 13 11 | 2°28'02 | 21°18 | 18°17 | 9°49 | 2°10 | 15°37 | 14°37 | 10°14 | 3°38 | 19°44 | 27°57 | 26°34 | 9° 7 | 12°26 | W25 |
| T 26 | 20 17 8 | 3°25'25 | 3♊ 7 | 20° 9 | 11° 3 | 2°25 | 15°45 | 14°43 | 10°15 | 3°37 | 19°45 | 27°59 | 26°31 | 9°14 | 12°27 | T 26 |
| F 27 | 20 21 4 | 4°22'49 | 14°55 | 22° 5 | 12°16 | 2°41 | 15°52 | 14°49 | 10°16 | 3°35 | 19°47 | 28° 0 | 26°27 | 9°21 | 12°28 | F 27 |
| S 28 | 20 25 1 | 5°20'14 | 26°47 | 24° 3 | 13°30 | 2°58 | 16° 0 | 14°56 | 10°17 | 3°34 | 19°48 | 28°R 1 | 26°24 | 9°27 | 12°30 | S 28 |
| S 29 | 20 28 57 | 6°17'41 | 8♋46 | 26° 2 | 14°44 | 3°16 | 16° 8 | 15° 2 | 10°18 | 3°32 | 19°50 | 28° 0 | 26°21 | 9°34 | 12°31 | S 29 |
| M30 | 20 32 54 | 7°15'08 | 20°57 | 28° 3 | 15°58 | 3°34 | 16°16 | 15° 8 | 10°19 | 3°31 | 19°51 | 27°58 | 26°18 | 9°40 | 12°32 | M30 |
| T 31 | 20 36 50 | 8♌12'36 | 3♌19 | 0♌ 6 | 17♌12 | 3♐53 | 16♎24 | 15♍15 | 10♉20 | 3♓30 | 19♋53 | 27♊54 | 26♊15 | 9♊47 | 12♉33 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 8 | 23n39 | 0n10 | 18n54 | 4s29 | 23n44 | 0n39 | 23s18 | 3s17 | 4s 5 | 1n18 | 8n46 | 2n 1 | 14n18 | 0s26 | 10s44 | 0s45 | 23n 5 | 0n59 | 23n28 | 23n28 | 19n34 | 14n 0 | 1s25 |
| M 2 | 23 4 | 24 10 | 1 16 | 19 0 | 4 23 | 23 40 | 0 41 | 23 18 | 3 18 | 4 7 | 1 18 | 8 44 | 2 0 | 14 19 | 0 26 | 10 44 | 0 45 | 23 5 | 0 59 | 23 28 | 23 28 | 19 36 | 14 1 | 1 25 |
| T 3 | 22 59 | 23 33 | 2 19 | 19 7 | 4 16 | 23 35 | 0 43 | 23 19 | 3 19 | 4 8 | 1 18 | 8 42 | 2 0 | 14 19 | 0 26 | 10 45 | 0 45 | 23 5 | 0 59 | 23 28 | 23 28 | 19 38 | 14 2 | 1 25 |
| W 4 | 22 54 | 21 48 | 3 16 | 19 16 | 4 7 | 23 30 | 0 45 | 23 19 | 3 20 | 4 10 | 1 17 | 8 40 | 2 0 | 14 20 | 0 26 | 10 45 | 0 45 | 23 5 | 0 59 | 23 28 | 23 28 | 19 40 | 14 2 | 1 25 |
| T 5 | 22 48 | 18 58 | 4 5 | 19 26 | 3 58 | 23 24 | 0 47 | 23 20 | 3 21 | 4 12 | 1 17 | 8 38 | 2 0 | 14 21 | 0 26 | 10 45 | 0 45 | 23 5 | 0 59 | 23 28 | 23 28 | 19 42 | 14 3 | 1 25 |
| F 6 | 22 42 | 15 12 | 4 43 | 19 36 | 3 48 | 23 17 | 0 49 | 23 21 | 3 22 | 4 14 | 1 17 | 8 36 | 2 0 | 14 21 | 0 26 | 10 46 | 0 45 | 23 5 | 0 59 | 23 28 | 23 27 | 19 44 | 14 3 | 1 25 |
| S 7 | 22 36 | 10 40 | 5 7 | 19 48 | 3 37 | 23 9 | 0 51 | 23 22 | 3 22 | 4 16 | 1 17 | 8 34 | 2 0 | 14 22 | 0 26 | 10 46 | 0 45 | 23 4 | 0 59 | 23 28 | 23 27 | 19 46 | 14 4 | 1 26 |
| S 8 | 22 29 | 5 32 | 5 16 | 20 0 | 3 26 | 23 1 | 0 53 | 23 23 | 3 23 | 4 18 | 1 16 | 8 32 | 2 0 | 14 22 | 0 26 | 10 47 | 0 45 | 23 4 | 0 59 | 23 28 | 23 27 | 19 48 | 14 5 | 1 26 |
| M 9 | 22 22 | 0 3 | 5 7 | 20 13 | 3 14 | 22 52 | 0 55 | 23 24 | 3 23 | 4 21 | 1 16 | 8 30 | 2 0 | 14 23 | 0 26 | 10 47 | 0 45 | 23 4 | 0 59 | 23 28 | 23 27 | 19 50 | 14 5 | 1 26 |
| T 10 | 22 15 | 5s33 | 4 41 | 20 27 | 3 1 | 22 43 | 0 57 | 23 26 | 3 24 | 4 23 | 1 16 | 8 28 | 1 59 | 14 23 | 0 26 | 10 47 | 0 45 | 23 4 | 0 59 | 23 28 | 23 27 | 19 52 | 14 6 | 1 26 |
| W11 | 22 7 | 11 1 | 3 57 | 20 40 | 2 48 | 22 33 | 0 58 | 23 27 | 3 24 | 4 25 | 1 16 | 8 25 | 1 59 | 14 24 | 0 26 | 10 48 | 0 45 | 23 4 | 0 59 | 23 28 | 23 27 | 19 53 | 14 6 | 1 26 |
| T 12 | 21 59 | 15 59 | 2 57 | 20 54 | 2 35 | 22 22 | 1 0 | 23 29 | 3 25 | 4 28 | 1 15 | 8 23 | 1 59 | 14 24 | 0 26 | 10 48 | 0 45 | 23 4 | 1 0 | 23 28 | 23 27 | 19 55 | 14 7 | 1 26 |
| F 13 | 21 50 | 20 4 | 1 45 | 21 7 | 2 21 | 22 11 | 1 2 | 23 30 | 3 25 | 4 30 | 1 15 | 8 21 | 1 59 | 14 25 | 0 26 | 10 49 | 0 45 | 23 3 | 1 0 | 23 28 | 23 27 | 19 57 | 14 7 | 1 27 |
| S 14 | 21 41 | 22 54 | 0 26 | 21 21 | 2 8 | 21 58 | 1 3 | 23 32 | 3 25 | 4 32 | 1 15 | 8 19 | 1 59 | 14 25 | 0 26 | 10 49 | 0 45 | 23 3 | 1 0 | 23 28 | 23 27 | 19 59 | 14 7 | 1 27 |
| S 15 | 21 32 | 24 8 | 0s55 | 21 34 | 1 53 | 21 46 | 1 5 | 23 34 | 3 26 | 4 35 | 1 15 | 8 17 | 1 59 | 14 26 | 0 26 | 10 49 | 0 46 | 23 3 | 1 0 | 23 28 | 23 27 | 20 1 | 14 8 | 1 27 |
| M16 | 21 22 | 23 40 | 2 13 | 21 46 | 1 39 | 21 32 | 1 7 | 23 36 | 3 26 | 4 38 | 1 14 | 8 14 | 1 59 | 14 26 | 0 26 | 10 50 | 0 46 | 23 3 | 1 0 | 23 28 | 23 27 | 20 3 | 14 8 | 1 27 |
| T 17 | 21 12 | 21 35 | 3 20 | 21 57 | 1 25 | 21 18 | 1 8 | 23 38 | 3 26 | 4 40 | 1 14 | 8 12 | 1 59 | 14 27 | 0 26 | 10 50 | 0 46 | 23 3 | 1 0 | 23 28 | 23 27 | 20 5 | 14 9 | 1 27 |
| W18 | 21 1 | 18 12 | 4 13 | 22 7 | 1 11 | 21 4 | 1 10 | 23 41 | 3 26 | 4 43 | 1 14 | 8 10 | 1 59 | 14 27 | 0 26 | 10 51 | 0 46 | 23 3 | 1 0 | 23 28 | 23 27 | 20 7 | 14 9 | 1 27 |
| T 19 | 20 51 | 13 52 | 4 50 | 22 17 | 0 57 | 20 48 | 1 11 | 23 43 | 3 26 | 4 46 | 1 14 | 8 7 | 1 58 | 14 28 | 0 26 | 10 51 | 0 46 | 23 2 | 1 0 | 23 28 | 23 27 | 20 9 | 14 9 | 1 28 |
| F 20 | 20 40 | 8 59 | 5 10 | 22 24 | 0 43 | 20 32 | 1 12 | 23 46 | 3 26 | 4 48 | 1 13 | 8 5 | 1 58 | 14 28 | 0 26 | 10 52 | 0 46 | 23 2 | 1 0 | 23 28 | 23 27 | 20 10 | 14 10 | 1 28 |
| S 21 | 20 28 | 3 51 | 5 12 | 22 30 | 0 30 | 20 16 | 1 14 | 23 48 | 3 26 | 4 51 | 1 13 | 8 3 | 1 58 | 14 28 | 0 26 | 10 52 | 0 46 | 23 2 | 1 0 | 23 28 | 23 26 | 20 12 | 14 10 | 1 28 |
| S 22 | 20 16 | 1n19 | 5 0 | 22 34 | 0 17 | 19 59 | 1 15 | 23 51 | 3 26 | 4 54 | 1 13 | 8 0 | 1 58 | 14 29 | 0 26 | 10 53 | 0 46 | 23 2 | 1 0 | 23 28 | 23 26 | 20 14 | 14 10 | 1 28 |
| M23 | 20 4 | 6 17 | 4 33 | 22 36 | 0 4 | 19 41 | 1 16 | 23 54 | 3 26 | 4 57 | 1 13 | 7 58 | 1 58 | 14 29 | 0 26 | 10 53 | 0 46 | 23 2 | 1 0 | 23 28 | 23 26 | 20 16 | 14 11 | 1 28 |
| T 24 | 19 51 | 10 56 | 3 55 | 22 36 | 0n 8 | 19 23 | 1 17 | 23 56 | 3 26 | 5 0 | 1 13 | 7 55 | 1 58 | 14 29 | 0 26 | 10 54 | 0 46 | 23 2 | 1 0 | 23 28 | 23 26 | 20 18 | 14 11 | 1 29 |
| W25 | 19 39 | 15 6 | 3 7 | 22 34 | 0 20 | 19 5 | 1 18 | 23 59 | 3 26 | 5 3 | 1 12 | 7 53 | 1 58 | 14 30 | 0 26 | 10 54 | 0 46 | 23 1 | 1 0 | 23 28 | 23 26 | 20 20 | 14 11 | 1 29 |
| T 26 | 19 25 | 18 39 | 2 12 | 22 29 | 0 31 | 18 45 | 1 19 | 24 2 | 3 26 | 5 6 | 1 12 | 7 50 | 1 58 | 14 30 | 0 26 | 10 55 | 0 46 | 23 1 | 1 0 | 23 28 | 23 26 | 20 21 | 14 11 | 1 29 |
| F 27 | 19 12 | 21 27 | 1 11 | 22 21 | 0 42 | 18 26 | 1 20 | 24 5 | 3 25 | 5 9 | 1 12 | 7 48 | 1 58 | 14 30 | 0 26 | 10 55 | 0 46 | 23 1 | 1 1 | 23 28 | 23 26 | 20 23 | 14 12 | 1 29 |
| S 28 | 18 58 | 23 20 | 0 7 | 22 11 | 0 51 | 18 5 | 1 21 | 24 9 | 3 25 | 5 12 | 1 12 | 7 45 | 1 58 | 14 31 | 0 26 | 10 56 | 0 46 | 23 1 | 1 1 | 23 28 | 23 26 | 20 25 | 14 12 | 1 29 |
| S 29 | 18 44 | 24 10 | 0n58 | 21 58 | 1 0 | 17 45 | 1 22 | 24 12 | 3 25 | 5 15 | 1 11 | 7 43 | 1 58 | 14 31 | 0 26 | 10 56 | 0 46 | 23 1 | 1 1 | 23 28 | 23 26 | 20 27 | 14 12 | 1 29 |
| M30 | 18 29 | 23 51 | 2 2 | 21 42 | 1 8 | 17 23 | 1 23 | 24 15 | 3 25 | 5 19 | 1 11 | 7 40 | 1 58 | 14 31 | 0 26 | 10 57 | 0 46 | 23 1 | 1 1 | 23 28 | 23 26 | 20 29 | 14 12 | 1 30 |
| T 31 | 18n15 | 22n22 | 3n 0 | 21n24 | 1n16 | 17n 2 | 1n23 | 24s18 | 3s24 | 5s22 | 1n11 | 7n38 | 1n57 | 14n31 | 0s26 | 10s57 | 0s46 | 23n 0 | 1n 1 | 23n28 | 23n26 | 20n31 | 14n12 | 1s30 |

Julian Day Number = 2336675.5, Delta T = 20.66 sec
Ecliptic obliquity = 23°28'48, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'01, Lahiri = 19°28'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## AUGUST 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 40 47 | 9♌10'06 | 15♌56 | 2♌ 9 | 18♌26 | 4♐12 | 16♎32 | 15♍21 | 10♉20 | 3°R28 | 19♋54 | 27°R48 | 26♊12 | 9♊54 | 12♉34 | W 1 |
| T 2 | 20 44 43 | 10° 7'36 | 28°47 | 4°13 | 19°41 | 4°32 | 16°40 | 15°28 | 10°21 | 3♓27 | 19°56 | 27♊41 | 26° 8 | 10° 0 | 12°35 | T 2 |
| F 3 | 20 48 40 | 11° 5'08 | 11♍52 | 6°17 | 20°55 | 4°52 | 16°49 | 15°35 | 10°22 | 3°25 | 19°58 | 27°34 | 26° 5 | 10° 7 | 12°36 | F 3 |
| S 4 | 20 52 37 | 12° 2'40 | 25°10 | 8°22 | 22° 9 | 5°13 | 16°57 | 15°41 | 10°22 | 3°24 | 19°59 | 27°27 | 26° 2 | 10°14 | 12°36 | S 4 |
| S 5 | 20 56 33 | 13° 0'13 | 8♎41 | 10°25 | 23°23 | 5°35 | 17° 6 | 15°48 | 10°23 | 3°22 | 20° 1 | 27°21 | 25°59 | 10°20 | 12°37 | S 5 |
| M 6 | 21 0 30 | 13°57'47 | 22°23 | 12°29 | 24°37 | 5°57 | 17°15 | 15°55 | 10°23 | 3°21 | 20° 2 | 27°17 | 25°56 | 10°27 | 12°38 | M 6 |
| T 7 | 21 4 26 | 14°55'22 | 6♏15 | 14°31 | 25°51 | 6°19 | 17°23 | 16° 1 | 10°24 | 3°19 | 20° 4 | 27°15 | 25°52 | 10°34 | 12°38 | T 7 |
| W 8 | 21 8 23 | 15°52'58 | 20°18 | 16°33 | 27° 5 | 6°42 | 17°32 | 16° 8 | 10°24 | 3°18 | 20° 5 | 27°D15 | 25°49 | 10°40 | 12°39 | W 8 |
| T 9 | 21 12 19 | 16°50'35 | 4♐29 | 18°34 | 28°19 | 7° 6 | 17°41 | 16°15 | 10°24 | 3°16 | 20° 6 | 27°16 | 25°46 | 10°47 | 12°40 | T 9 |
| F 10 | 21 16 16 | 17°48'13 | 18°47 | 20°34 | 29°33 | 7°30 | 17°51 | 16°22 | 10°25 | 3°14 | 20° 8 | 27°17 | 25°43 | 10°54 | 12°40 | F 10 |
| S 11 | 21 20 12 | 18°45'52 | 3♑11 | 22°33 | 0♍47 | 7°55 | 18° 0 | 16°29 | 10°25 | 3°13 | 20° 9 | 27°R17 | 25°40 | 11° 0 | 12°40 | S 11 |
| S 12 | 21 24 9 | 19°43'32 | 17°36 | 24°30 | 2° 1 | 8°20 | 18° 9 | 16°36 | 10°25 | 3°11 | 20°11 | 27°15 | 25°37 | 11° 7 | 12°41 | S 12 |
| M13 | 21 28 6 | 20°41'14 | 1♒59 | 26°26 | 3°15 | 8°45 | 18°19 | 16°43 | 10°25 | 3°10 | 20°12 | 27°11 | 25°33 | 11°14 | 12°41 | M13 |
| T 14 | 21 32 2 | 21°38'56 | 16°13 | 28°21 | 4°29 | 9°11 | 18°28 | 16°50 | 10°25 | 3° 8 | 20°14 | 27° 5 | 25°30 | 11°20 | 12°41 | T 14 |
| W15 | 21 35 59 | 22°36'40 | 0♓14 | 0♍14 | 5°43 | 9°37 | 18°38 | 16°57 | 10°R25 | 3° 6 | 20°15 | 26°57 | 25°27 | 11°27 | 12°41 | W15 |
| T 16 | 21 39 55 | 23°34'25 | 13°58 | 2° 6 | 6°57 | 10° 4 | 18°48 | 17° 4 | 10°25 | 3° 5 | 20°16 | 26°48 | 25°24 | 11°34 | 12°41 | T 16 |
| F 17 | 21 43 52 | 24°32'12 | 27°20 | 3°57 | 8°11 | 10°31 | 18°57 | 17°11 | 10°25 | 3° 3 | 20°18 | 26°38 | 25°21 | 11°40 | 12°R41 | F 17 |
| S 18 | 21 47 48 | 25°30'00 | 10♈21 | 5°47 | 9°25 | 10°59 | 19° 7 | 17°18 | 10°25 | 3° 2 | 20°19 | 26°30 | 25°17 | 11°47 | 12°41 | S 18 |
| S 19 | 21 51 45 | 26°27'50 | 23° 0 | 7°34 | 10°39 | 11°27 | 19°17 | 17°25 | 10°25 | 3° 0 | 20°21 | 26°23 | 25°14 | 11°53 | 12°41 | S 19 |
| M20 | 21 55 41 | 27°25'42 | 5♉20 | 9°21 | 11°53 | 11°55 | 19°27 | 17°32 | 10°25 | 2°58 | 20°22 | 26°18 | 25°11 | 12° 0 | 12°41 | M20 |
| T 21 | 21 59 38 | 28°23'35 | 17°25 | 11° 6 | 13° 7 | 12°24 | 19°38 | 17°40 | 10°25 | 2°57 | 20°23 | 26°16 | 25° 8 | 12° 7 | 12°41 | T 21 |
| W22 | 22 3 35 | 29°21'30 | 29°19 | 12°50 | 14°21 | 12°53 | 19°48 | 17°47 | 10°24 | 2°55 | 20°24 | 26°D15 | 25° 5 | 12°13 | 12°41 | W22 |
| T 23 | 22 7 31 | 0♍19'28 | 11♊ 8 | 14°33 | 15°35 | 13°22 | 19°58 | 17°54 | 10°24 | 2°53 | 20°26 | 26°16 | 25° 2 | 12°20 | 12°40 | T 23 |
| F 24 | 22 11 28 | 1°17'27 | 22°57 | 16°14 | 16°49 | 13°52 | 20° 9 | 18° 1 | 10°23 | 2°52 | 20°27 | 26°R16 | 24°58 | 12°27 | 12°40 | F 24 |
| S 25 | 22 15 24 | 2°15'28 | 4♋52 | 17°54 | 18° 3 | 14°22 | 20°19 | 18° 9 | 10°23 | 2°50 | 20°28 | 26°16 | 24°55 | 12°33 | 12°39 | S 25 |
| S 26 | 22 19 21 | 3°13'30 | 16°56 | 19°33 | 19°18 | 14°53 | 20°30 | 18°16 | 10°23 | 2°48 | 20°30 | 26°14 | 24°52 | 12°40 | 12°39 | S 26 |
| M27 | 22 23 17 | 4°11'35 | 29°15 | 21°11 | 20°32 | 15°24 | 20°41 | 18°23 | 10°22 | 2°47 | 20°31 | 26° 9 | 24°49 | 12°47 | 12°38 | M27 |
| T 28 | 22 27 14 | 5° 9'42 | 11♌50 | 22°47 | 21°46 | 15°55 | 20°52 | 18°31 | 10°21 | 2°45 | 20°32 | 26° 2 | 24°46 | 12°53 | 12°38 | T 28 |
| W29 | 22 31 10 | 6° 7'50 | 24°44 | 24°22 | 23° 0 | 16°27 | 21° 2 | 18°38 | 10°21 | 2°44 | 20°33 | 25°53 | 24°43 | 13° 0 | 12°37 | W29 |
| T 30 | 22 35 7 | 7° 6'00 | 7♍56 | 25°56 | 24°14 | 16°58 | 21°13 | 18°45 | 10°20 | 2°42 | 20°34 | 25°42 | 24°39 | 13° 7 | 12°36 | T 30 |
| F 31 | 22 39 4 | 8♍ 4'12 | 21♍25 | 27♍28 | 25♍28 | 17♐31 | 21♎24 | 18♍53 | 10♉19 | 2♓40 | 20♋36 | 25♊30 | 24♊36 | 13♊13 | 12♉35 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18n 0 | 19n45 | 3n51 | 21n 3 | 1n22 | 16n39 | 1n24 | 24s22 | 3s24 | 5s25 | 1n11 | 7n35 | 1n57 | 14n32 | 0s27 | 10s58 | 0s46 | 23n 0 | 1n 1 | 23n28 | 23n26 | 20n32 | 14n12 | 1s30 |
| T 2 | 17 44 | 16 8 | 4 31 | 20 40 | 1 28 | 16 17 | 1 25 | 24 25 | 3 24 | 5 29 | 1 11 | 7 32 | 1 57 | 14 32 | 0 27 | 10 58 | 0 46 | 23 0 | 1 1 | 23 28 | 23 25 | 20 34 | 14 12 | 1 30 |
| F 3 | 17 29 | 11 42 | 4 57 | 20 14 | 1 33 | 15 54 | 1 25 | 24 28 | 3 23 | 5 32 | 1 10 | 7 30 | 1 57 | 14 32 | 0 27 | 10 59 | 0 46 | 23 0 | 1 1 | 23 27 | 23 25 | 20 36 | 14 13 | 1 30 |
| S 4 | 17 13 | 6 38 | 5 8 | 19 46 | 1 37 | 15 30 | 1 26 | 24 32 | 3 23 | 5 35 | 1 10 | 7 27 | 1 57 | 14 32 | 0 27 | 11 0 | 0 46 | 23 0 | 1 1 | 23 27 | 23 25 | 20 38 | 14 13 | 1 31 |
| S 5 | 16 56 | 1 11 | 5 3 | 19 16 | 1 40 | 15 6 | 1 26 | 24 35 | 3 22 | 5 39 | 1 10 | 7 25 | 1 57 | 14 32 | 0 27 | 11 0 | 0 46 | 23 0 | 1 1 | 23 27 | 23 25 | 20 40 | 14 13 | 1 31 |
| M 6 | 16 40 | 4s24 | 4 40 | 18 44 | 1 43 | 14 42 | 1 26 | 24 39 | 3 22 | 5 43 | 1 10 | 7 22 | 1 57 | 14 32 | 0 27 | 11 1 | 0 46 | 23 0 | 1 1 | 23 27 | 23 25 | 20 41 | 14 13 | 1 31 |
| T 7 | 16 23 | 9 51 | 4 0 | 18 10 | 1 45 | 14 17 | 1 27 | 24 42 | 3 21 | 5 46 | 1 10 | 7 19 | 1 57 | 14 33 | 0 27 | 11 1 | 0 46 | 22 59 | 1 1 | 23 27 | 23 25 | 20 43 | 14 13 | 1 31 |
| W 8 | 16 6 | 14 52 | 3 6 | 17 35 | 1 46 | 13 52 | 1 27 | 24 46 | 3 21 | 5 50 | 1 9 | 7 16 | 1 57 | 14 33 | 0 27 | 11 2 | 0 46 | 22 59 | 1 1 | 23 27 | 23 25 | 20 45 | 14 13 | 1 31 |
| T 9 | 15 49 | 19 7 | 2 0 | 16 58 | 1 46 | 13 26 | 1 27 | 24 50 | 3 20 | 5 53 | 1 9 | 7 14 | 1 57 | 14 33 | 0 27 | 11 2 | 0 46 | 22 59 | 1 1 | 23 27 | 23 25 | 20 47 | 14 13 | 1 31 |
| F 10 | 15 31 | 22 15 | 0 46 | 16 20 | 1 46 | 13 1 | 1 27 | 24 53 | 3 20 | 5 57 | 1 9 | 7 11 | 1 57 | 14 33 | 0 27 | 11 3 | 0 46 | 22 59 | 1 2 | 23 27 | 23 25 | 20 49 | 14 13 | 1 32 |
| S 11 | 15 14 | 23 58 | 0s32 | 15 40 | 1 45 | 12 34 | 1 27 | 24 57 | 3 19 | 6 1 | 1 9 | 7 8 | 1 57 | 14 33 | 0 27 | 11 4 | 0 46 | 22 59 | 1 2 | 23 27 | 23 25 | 20 50 | 14 13 | 1 32 |
| S 12 | 14 56 | 24 5 | 1 47 | 15 0 | 1 43 | 12 8 | 1 27 | 25 0 | 3 19 | 6 4 | 1 9 | 7 6 | 1 57 | 14 33 | 0 27 | 11 4 | 0 46 | 22 59 | 1 2 | 23 27 | 23 24 | 20 52 | 14 13 | 1 32 |
| M13 | 14 37 | 22 36 | 2 55 | 14 18 | 1 41 | 11 41 | 1 27 | 25 4 | 3 18 | 6 8 | 1 8 | 7 3 | 1 57 | 14 33 | 0 27 | 11 5 | 0 46 | 22 59 | 1 2 | 23 27 | 23 24 | 20 54 | 14 12 | 1 32 |
| T 14 | 14 19 | 19 41 | 3 52 | 13 36 | 1 38 | 11 14 | 1 27 | 25 7 | 3 18 | 6 12 | 1 8 | 7 0 | 1 57 | 14 33 | 0 27 | 11 5 | 0 46 | 22 58 | 1 2 | 23 27 | 23 24 | 20 56 | 14 12 | 1 32 |
| W15 | 14 0 | 15 40 | 4 33 | 12 53 | 1 35 | 10 46 | 1 26 | 25 11 | 3 17 | 6 16 | 1 8 | 6 57 | 1 57 | 14 33 | 0 27 | 11 6 | 0 46 | 22 58 | 1 2 | 23 27 | 23 24 | 20 57 | 14 12 | 1 33 |
| T 16 | 13 41 | 10 53 | 4 58 | 12 10 | 1 31 | 10 18 | 1 26 | 25 14 | 3 16 | 6 20 | 1 8 | 6 54 | 1 57 | 14 33 | 0 27 | 11 7 | 0 46 | 22 58 | 1 2 | 23 26 | 23 24 | 20 59 | 14 12 | 1 33 |
| F 17 | 13 22 | 5 43 | 5 5 | 11 26 | 1 27 | 9 50 | 1 26 | 25 17 | 3 16 | 6 24 | 1 8 | 6 52 | 1 57 | 14 33 | 0 27 | 11 7 | 0 46 | 22 58 | 1 2 | 23 26 | 23 24 | 21 1 | 14 12 | 1 33 |
| S 18 | 13 3 | 0 26 | 4 56 | 10 42 | 1 23 | 9 22 | 1 25 | 25 21 | 3 15 | 6 28 | 1 8 | 6 49 | 1 57 | 14 33 | 0 27 | 11 8 | 0 46 | 22 58 | 1 2 | 23 26 | 23 24 | 21 3 | 14 12 | 1 33 |
| S 19 | 12 43 | 4n44 | 4 33 | 9 57 | 1 18 | 8 53 | 1 25 | 25 24 | 3 14 | 6 31 | 1 7 | 6 46 | 1 57 | 14 33 | 0 27 | 11 8 | 0 46 | 22 58 | 1 2 | 23 26 | 23 24 | 21 4 | 14 11 | 1 33 |
| M20 | 12 23 | 9 35 | 3 58 | 9 12 | 1 13 | 8 25 | 1 24 | 25 27 | 3 14 | 6 35 | 1 7 | 6 43 | 1 57 | 14 33 | 0 27 | 11 9 | 0 46 | 22 58 | 1 2 | 23 26 | 23 24 | 21 6 | 14 11 | 1 34 |
| T 21 | 12 3 | 13 59 | 3 12 | 8 27 | 1 7 | 7 56 | 1 23 | 25 30 | 3 13 | 6 39 | 1 7 | 6 40 | 1 57 | 14 33 | 0 27 | 11 10 | 0 46 | 22 58 | 1 2 | 23 26 | 23 23 | 21 8 | 14 11 | 1 34 |
| W22 | 11 43 | 17 47 | 2 19 | 7 42 | 1 1 | 7 26 | 1 23 | 25 33 | 3 12 | 6 44 | 1 7 | 6 38 | 1 57 | 14 33 | 0 27 | 11 10 | 0 46 | 22 57 | 1 2 | 23 26 | 23 23 | 21 10 | 14 11 | 1 34 |
| T 23 | 11 23 | 20 50 | 1 20 | 6 57 | 0 55 | 6 57 | 1 22 | 25 36 | 3 11 | 6 48 | 1 7 | 6 35 | 1 57 | 14 32 | 0 27 | 11 11 | 0 46 | 22 57 | 1 3 | 23 26 | 23 23 | 21 11 | 14 10 | 1 34 |
| F 24 | 11 2 | 23 0 | 0 18 | 6 11 | 0 49 | 6 27 | 1 21 | 25 39 | 3 11 | 6 52 | 1 7 | 6 32 | 1 57 | 14 32 | 0 27 | 11 11 | 0 46 | 22 57 | 1 3 | 23 26 | 23 23 | 21 13 | 14 10 | 1 34 |
| S 25 | 10 41 | 24 9 | 0n46 | 5 26 | 0 42 | 5 57 | 1 20 | 25 42 | 3 10 | 6 56 | 1 6 | 6 29 | 1 57 | 14 32 | 0 27 | 11 12 | 0 46 | 22 57 | 1 3 | 23 26 | 23 23 | 21 15 | 14 10 | 1 34 |
| S 26 | 10 20 | 24 11 | 1 48 | 4 41 | 0 36 | 5 27 | 1 19 | 25 45 | 3 9 | 7 0 | 1 6 | 6 26 | 1 57 | 14 32 | 0 27 | 11 13 | 0 46 | 22 57 | 1 3 | 23 26 | 23 23 | 21 16 | 14 9 | 1 35 |
| M27 | 9 59 | 23 3 | 2 46 | 3 56 | 0 28 | 4 57 | 1 18 | 25 48 | 3 8 | 7 4 | 1 6 | 6 23 | 1 57 | 14 32 | 0 27 | 11 13 | 0 46 | 22 57 | 1 3 | 23 25 | 23 23 | 21 18 | 14 9 | 1 35 |
| T 28 | 9 38 | 20 45 | 3 37 | 3 12 | 0 21 | 4 27 | 1 17 | 25 50 | 3 7 | 7 8 | 1 6 | 6 20 | 1 57 | 14 32 | 0 27 | 11 14 | 0 46 | 22 57 | 1 3 | 23 25 | 23 23 | 21 20 | 14 9 | 1 35 |
| W29 | 9 17 | 17 22 | 4 19 | 2 27 | 0 14 | 3 57 | 1 16 | 25 53 | 3 7 | 7 13 | 1 6 | 6 17 | 1 57 | 14 31 | 0 27 | 11 14 | 0 46 | 22 57 | 1 3 | 23 25 | 23 22 | 21 22 | 14 8 | 1 35 |
| T 30 | 8 55 | 13 3 | 4 47 | 1 43 | 0 6 | 3 26 | 1 14 | 25 55 | 3 6 | 7 17 | 1 6 | 6 15 | 1 57 | 14 31 | 0 27 | 11 15 | 0 46 | 22 57 | 1 3 | 23 25 | 23 22 | 21 23 | 14 8 | 1 35 |
| F 31 | 8n33 | 8n 1 | 5n 1 | 0n59 | 0s 1 | 2n55 | 1n13 | 25s58 | 3s 5 | 7s21 | 1n 5 | 6n12 | 1n57 | 14n31 | 0s27 | 11s16 | 0s46 | 22n56 | 1n 3 | 23n24 | 23n22 | 21n25 | 14n 8 | 1s36 |

Julian Day Number = 2336706.5, Delta T = 20.61 sec
Ecliptic obliquity = 23°28'49, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'05, Lahiri = 19°28'05Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## SEPTEMBER 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 43 0 | 9♍ 2'25 | 5♎ 9 | 29♍ 0 | 26♍42 | 18♐ 3 | 21♎35 | 19♍ 0 | 10°R18 | 2°R39 | 20♋37 | 25°R19 | 24♊33 | 13♊20 | 12°R34 | S 1 |
| S 2 | 22 46 57 | 10° 0'40 | 19° 3 | 0♎30 | 27°56 | 18°36 | 21°47 | 19° 8 | 10♉18 | 2♓37 | 20°38 | 25♊ 9 | 24°30 | 13°27 | 12♉33 | S 2 |
| M 3 | 22 50 53 | 10°58'56 | 3♏ 4 | 1°59 | 29°10 | 19° 9 | 21°58 | 19°15 | 10°17 | 2°35 | 20°39 | 25° 2 | 24°27 | 13°33 | 12°32 | M 3 |
| T 4 | 22 54 50 | 11°57'15 | 17° 9 | 3°27 | 0♎24 | 19°43 | 22° 9 | 19°22 | 10°16 | 2°34 | 20°40 | 24°58 | 24°23 | 13°40 | 12°31 | T 4 |
| W 5 | 22 58 46 | 12°55'34 | 1♐16 | 4°53 | 1°38 | 20°16 | 22°21 | 19°30 | 10°15 | 2°32 | 20°41 | 24°56 | 24°20 | 13°46 | 12°30 | W 5 |
| T 6 | 23 2 43 | 13°53'56 | 15°23 | 6°18 | 2°52 | 20°50 | 22°32 | 19°37 | 10°14 | 2°31 | 20°42 | 24°D56 | 24°17 | 13°53 | 12°29 | T 6 |
| F 7 | 23 6 39 | 14°52'19 | 29°30 | 7°42 | 4° 6 | 21°24 | 22°44 | 19°45 | 10°13 | 2°29 | 20°43 | 24°R56 | 24°14 | 14° 0 | 12°28 | F 7 |
| S 8 | 23 10 36 | 15°50'43 | 13♑34 | 9° 5 | 5°20 | 21°59 | 22°55 | 19°52 | 10°12 | 2°27 | 20°44 | 24°55 | 24°11 | 14° 6 | 12°27 | S 8 |
| S 9 | 23 14 33 | 16°49'09 | 27°36 | 10°26 | 6°34 | 22°34 | 23° 7 | 20° 0 | 10°10 | 2°26 | 20°45 | 24°52 | 24° 8 | 14°13 | 12°25 | S 9 |
| M10 | 23 18 29 | 17°47'37 | 11♒33 | 11°46 | 7°48 | 23° 9 | 23°18 | 20° 7 | 10° 9 | 2°24 | 20°46 | 24°46 | 24° 4 | 14°20 | 12°24 | M10 |
| T 11 | 23 22 26 | 18°46'07 | 25°22 | 13° 4 | 9° 2 | 23°44 | 23°30 | 20°15 | 10° 8 | 2°23 | 20°47 | 24°38 | 24° 1 | 14°26 | 12°22 | T 11 |
| W12 | 23 26 22 | 19°44'38 | 9♓ 1 | 14°21 | 10°16 | 24°20 | 23°42 | 20°22 | 10° 7 | 2°21 | 20°48 | 24°26 | 23°58 | 14°33 | 12°21 | W12 |
| T 13 | 23 30 19 | 20°43'11 | 22°26 | 15°36 | 11°30 | 24°55 | 23°54 | 20°30 | 10° 5 | 2°19 | 20°49 | 24°14 | 23°55 | 14°40 | 12°19 | T 13 |
| F 14 | 23 34 15 | 21°41'46 | 5♈34 | 16°50 | 12°44 | 25°31 | 24° 6 | 20°37 | 10° 4 | 2°18 | 20°50 | 24° 1 | 23°52 | 14°46 | 12°18 | F 14 |
| S 15 | 23 38 12 | 22°40'23 | 18°25 | 18° 2 | 13°58 | 26° 8 | 24°18 | 20°45 | 10° 3 | 2°16 | 20°51 | 23°49 | 23°49 | 14°53 | 12°16 | S 15 |
| S 16 | 23 42 8 | 23°39'02 | 0♉58 | 19°12 | 15°12 | 26°44 | 24°30 | 20°52 | 10° 1 | 2°15 | 20°52 | 23°39 | 23°45 | 15° 0 | 12°14 | S 16 |
| M17 | 23 46 5 | 24°37'43 | 13°15 | 20°21 | 16°26 | 27°21 | 24°42 | 21° 0 | 10° 0 | 2°13 | 20°53 | 23°32 | 23°42 | 15° 6 | 12°13 | M17 |
| T 18 | 23 50 1 | 25°36'26 | 25°18 | 21°27 | 17°40 | 27°57 | 24°54 | 21° 7 | 9°58 | 2°12 | 20°53 | 23°27 | 23°39 | 15°13 | 12°11 | T 18 |
| W19 | 23 53 58 | 26°35'12 | 7♊11 | 22°31 | 18°54 | 28°35 | 25° 6 | 21°15 | 9°56 | 2°10 | 20°54 | 23°25 | 23°36 | 15°20 | 12° 9 | W19 |
| T 20 | 23 57 55 | 27°34'00 | 18°59 | 23°33 | 20° 8 | 29°12 | 25°19 | 21°22 | 9°55 | 2° 9 | 20°55 | 23°24 | 23°33 | 15°26 | 12° 7 | T 20 |
| F 21 | 0 1 51 | 28°32'50 | 0♋48 | 24°33 | 21°22 | 29°49 | 25°31 | 21°30 | 9°53 | 2° 8 | 20°56 | 23°24 | 23°29 | 15°33 | 12° 5 | F 21 |
| S 22 | 0 5 48 | 29°31'43 | 12°43 | 25°30 | 22°36 | 0♑27 | 25°43 | 21°37 | 9°52 | 2° 6 | 20°57 | 23°24 | 23°26 | 15°39 | 12° 3 | S 22 |
| S 23 | 0 9 44 | 0♎30'38 | 24°49 | 26°24 | 23°50 | 1° 5 | 25°56 | 21°45 | 9°50 | 2° 5 | 20°57 | 23°22 | 23°23 | 15°46 | 12° 1 | S 23 |
| M24 | 0 13 41 | 1°29'35 | 7♌11 | 27°15 | 25° 4 | 1°43 | 26° 8 | 21°52 | 9°48 | 2° 3 | 20°58 | 23°17 | 23°20 | 15°53 | 11°59 | M24 |
| T 25 | 0 17 37 | 2°28'34 | 19°53 | 28° 2 | 26°18 | 2°21 | 26°20 | 21°59 | 9°46 | 2° 2 | 20°59 | 23°10 | 23°17 | 15°59 | 11°57 | T 25 |
| W26 | 0 21 34 | 3°27'36 | 2♍59 | 28°46 | 27°31 | 3° 0 | 26°33 | 22° 7 | 9°44 | 2° 1 | 20°59 | 23° 1 | 23°14 | 16° 6 | 11°54 | W26 |
| T 27 | 0 25 30 | 4°26'40 | 16°27 | 29°26 | 28°45 | 3°38 | 26°45 | 22°14 | 9°43 | 1°59 | 21° 0 | 22°50 | 23°10 | 16°13 | 11°52 | T 27 |
| F 28 | 0 29 27 | 5°25'45 | 0♎17 | 0♏ 2 | 29°59 | 4°17 | 26°58 | 22°22 | 9°41 | 1°58 | 21° 0 | 22°38 | 23° 7 | 16°19 | 11°50 | F 28 |
| S 29 | 0 33 24 | 6°24'53 | 14°25 | 0°33 | 1♏13 | 4°56 | 27°11 | 22°29 | 9°39 | 1°57 | 21° 1 | 22°26 | 23° 4 | 16°26 | 11°47 | S 29 |
| S 30 | 0 37 20 | 7♎24'03 | 28♎46 | 0♏58 | 2♏27 | 5♑35 | 27♎23 | 22♍36 | 9♉37 | 1♓55 | 21♋ 2 | 22♊16 | 23♊ 1 | 16♊33 | 11♉45 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n12 | 2n30 | 4n57 | 0n16 | 0s 9 | 2n25 | 1n12 | 26s 0 | 3s 4 | 7s25 | 1n 5 | 6n 9 | 1n57 | 14n31 | 0s27 | 11s16 | 0s46 | 22n56 | 1n 3 | 23n24 | 23n22 | 21n27 | 14n 7 | 1s36 |
| S 2 | 7 50 | 3s13 | 4 36 | 0s27 | 0 17 | 1 54 | 1 10 | 26 2 | 3 3 | 7 30 | 1 5 | 6 6 | 1 57 | 14 30 | 0 27 | 11 17 | 0 46 | 22 56 | 1 3 | 23 24 | 23 22 | 21 28 | 14 7 | 1 36 |
| M 3 | 7 28 | 8 49 | 3 58 | 1 10 | 0 25 | 1 23 | 1 9 | 26 4 | 3 2 | 7 34 | 1 5 | 6 3 | 1 57 | 14 30 | 0 27 | 11 17 | 0 46 | 22 56 | 1 3 | 23 23 | 23 22 | 21 30 | 14 6 | 1 36 |
| T 4 | 7 5 | 14 1 | 3 6 | 1 52 | 0 33 | 0 52 | 1 7 | 26 6 | 3 1 | 7 38 | 1 5 | 6 0 | 1 57 | 14 30 | 0 27 | 11 18 | 0 46 | 22 56 | 1 4 | 23 23 | 23 22 | 21 32 | 14 6 | 1 36 |
| W 5 | 6 43 | 18 28 | 2 2 | 2 34 | 0 41 | 0 21 | 1 6 | 26 7 | 3 0 | 7 43 | 1 5 | 5 57 | 1 57 | 14 29 | 0 27 | 11 19 | 0 46 | 22 56 | 1 4 | 23 23 | 23 22 | 21 33 | 14 5 | 1 36 |
| T 6 | 6 21 | 21 51 | 0 50 | 3 16 | 0 49 | 0s10 | 1 4 | 26 9 | 3 0 | 7 47 | 1 5 | 5 54 | 1 57 | 14 29 | 0 27 | 11 19 | 0 46 | 22 56 | 1 4 | 23 23 | 23 21 | 21 35 | 14 5 | 1 37 |
| F 7 | 5 58 | 23 53 | 0s24 | 3 56 | 0 57 | 0 41 | 1 2 | 26 10 | 2 59 | 7 51 | 1 4 | 5 51 | 1 57 | 14 29 | 0 27 | 11 20 | 0 46 | 22 56 | 1 4 | 23 23 | 23 21 | 21 37 | 14 4 | 1 37 |
| S 8 | 5 35 | 24 24 | 1 37 | 4 36 | 1 5 | 1 12 | 1 1 | 26 12 | 2 58 | 7 56 | 1 4 | 5 48 | 1 57 | 14 28 | 0 27 | 11 20 | 0 46 | 22 56 | 1 4 | 23 23 | 23 21 | 21 38 | 14 3 | 1 37 |
| S 9 | 5 13 | 23 21 | 2 44 | 5 16 | 1 14 | 1 43 | 0 59 | 26 13 | 2 57 | 8 0 | 1 4 | 5 45 | 1 57 | 14 28 | 0 27 | 11 21 | 0 46 | 22 56 | 1 4 | 23 23 | 23 21 | 21 40 | 14 3 | 1 37 |
| M10 | 4 50 | 20 52 | 3 40 | 5 55 | 1 22 | 2 14 | 0 57 | 26 14 | 2 56 | 8 5 | 1 4 | 5 43 | 1 57 | 14 28 | 0 27 | 11 22 | 0 46 | 22 56 | 1 4 | 23 23 | 23 21 | 21 41 | 14 2 | 1 37 |
| T 11 | 4 27 | 17 12 | 4 23 | 6 33 | 1 30 | 2 45 | 0 55 | 26 15 | 2 55 | 8 9 | 1 4 | 5 40 | 1 57 | 14 27 | 0 27 | 11 22 | 0 46 | 22 56 | 1 4 | 23 22 | 23 21 | 21 43 | 14 2 | 1 38 |
| W12 | 4 4 | 12 40 | 4 50 | 7 10 | 1 38 | 3 16 | 0 53 | 26 15 | 2 54 | 8 14 | 1 4 | 5 37 | 1 57 | 14 27 | 0 27 | 11 23 | 0 46 | 22 56 | 1 4 | 23 22 | 23 21 | 21 45 | 14 1 | 1 38 |
| T 13 | 3 41 | 7 36 | 5 0 | 7 47 | 1 46 | 3 47 | 0 51 | 26 16 | 2 53 | 8 18 | 1 4 | 5 34 | 1 57 | 14 26 | 0 27 | 11 23 | 0 46 | 22 55 | 1 4 | 23 21 | 23 20 | 21 46 | 14 0 | 1 38 |
| F 14 | 3 18 | 2 17 | 4 54 | 8 23 | 1 54 | 4 17 | 0 49 | 26 16 | 2 52 | 8 23 | 1 4 | 5 31 | 1 57 | 14 26 | 0 27 | 11 24 | 0 46 | 22 55 | 1 4 | 23 21 | 23 20 | 21 48 | 14 0 | 1 38 |
| S 15 | 2 55 | 3n 1 | 4 34 | 8 58 | 2 2 | 4 48 | 0 47 | 26 16 | 2 51 | 8 27 | 1 3 | 5 28 | 1 57 | 14 25 | 0 27 | 11 24 | 0 46 | 22 55 | 1 5 | 23 20 | 23 20 | 21 50 | 13 59 | 1 38 |
| S 16 | 2 32 | 8 5 | 4 0 | 9 32 | 2 9 | 5 19 | 0 44 | 26 16 | 2 50 | 8 32 | 1 3 | 5 25 | 1 57 | 14 25 | 0 27 | 11 25 | 0 46 | 22 55 | 1 5 | 23 20 | 23 20 | 21 51 | 13 58 | 1 38 |
| M17 | 2 8 | 12 44 | 3 15 | 10 5 | 2 17 | 5 49 | 0 42 | 26 16 | 2 49 | 8 36 | 1 3 | 5 22 | 1 57 | 14 24 | 0 27 | 11 25 | 0 46 | 22 55 | 1 5 | 23 19 | 23 20 | 21 53 | 13 58 | 1 39 |
| T 18 | 1 45 | 16 48 | 2 23 | 10 37 | 2 24 | 6 20 | 0 40 | 26 16 | 2 48 | 8 41 | 1 3 | 5 19 | 1 57 | 14 24 | 0 27 | 11 26 | 0 46 | 22 55 | 1 5 | 23 19 | 23 20 | 21 54 | 13 57 | 1 39 |
| W19 | 1 22 | 20 9 | 1 25 | 11 7 | 2 32 | 6 50 | 0 38 | 26 15 | 2 47 | 8 45 | 1 3 | 5 16 | 1 57 | 14 23 | 0 27 | 11 26 | 0 46 | 22 55 | 1 5 | 23 19 | 23 20 | 21 56 | 13 56 | 1 39 |
| T 20 | 0 58 | 22 38 | 0 23 | 11 37 | 2 39 | 7 20 | 0 35 | 26 14 | 2 46 | 8 50 | 1 3 | 5 13 | 1 57 | 14 23 | 0 27 | 11 27 | 0 46 | 22 55 | 1 5 | 23 19 | 23 19 | 21 58 | 13 55 | 1 39 |
| F 21 | 0 35 | 24 8 | 0n39 | 12 5 | 2 45 | 7 50 | 0 33 | 26 14 | 2 45 | 8 54 | 1 3 | 5 11 | 1 57 | 14 22 | 0 27 | 11 28 | 0 46 | 22 55 | 1 5 | 23 19 | 23 19 | 21 59 | 13 55 | 1 39 |
| S 22 | 0 11 | 24 32 | 1 41 | 12 32 | 2 52 | 8 20 | 0 31 | 26 12 | 2 44 | 8 59 | 1 3 | 5 8 | 1 57 | 14 22 | 0 27 | 11 28 | 0 46 | 22 55 | 1 5 | 23 19 | 23 19 | 22 1 | 13 54 | 1 39 |
| S 23 | 0s12 | 23 48 | 2 38 | 12 58 | 2 58 | 8 50 | 0 28 | 26 11 | 2 43 | 9 4 | 1 3 | 5 5 | 1 58 | 14 21 | 0 27 | 11 29 | 0 46 | 22 55 | 1 5 | 23 19 | 23 19 | 22 2 | 13 53 | 1 40 |
| M24 | 0 36 | 21 53 | 3 30 | 13 22 | 3 4 | 9 19 | 0 26 | 26 10 | 2 42 | 9 8 | 1 2 | 5 2 | 1 58 | 14 21 | 0 27 | 11 29 | 0 46 | 22 55 | 1 5 | 23 19 | 23 19 | 22 4 | 13 52 | 1 40 |
| T 25 | 0 59 | 18 52 | 4 12 | 13 44 | 3 9 | 9 48 | 0 23 | 26 8 | 2 40 | 9 13 | 1 2 | 4 59 | 1 58 | 14 20 | 0 27 | 11 29 | 0 46 | 22 55 | 1 5 | 23 18 | 23 19 | 22 5 | 13 52 | 1 40 |
| W26 | 1 23 | 14 50 | 4 43 | 14 5 | 3 14 | 10 18 | 0 20 | 26 6 | 2 39 | 9 17 | 1 2 | 4 56 | 1 58 | 14 20 | 0 27 | 11 30 | 0 46 | 22 55 | 1 5 | 23 18 | 23 18 | 22 7 | 13 51 | 1 40 |
| T 27 | 1 46 | 9 57 | 4 59 | 14 23 | 3 18 | 10 46 | 0 18 | 26 4 | 2 38 | 9 22 | 1 2 | 4 53 | 1 58 | 14 19 | 0 27 | 11 30 | 0 46 | 22 55 | 1 6 | 23 17 | 23 18 | 22 9 | 13 50 | 1 40 |
| F 28 | 2 10 | 4 27 | 4 59 | 14 39 | 3 22 | 11 15 | 0 15 | 26 2 | 2 37 | 9 27 | 1 2 | 4 51 | 1 58 | 14 18 | 0 27 | 11 31 | 0 46 | 22 55 | 1 6 | 23 17 | 23 18 | 22 10 | 13 49 | 1 40 |
| S 29 | 2 33 | 1s24 | 4 40 | 14 53 | 3 25 | 11 43 | 0 13 | 25 59 | 2 36 | 9 31 | 1 2 | 4 48 | 1 58 | 14 18 | 0 27 | 11 31 | 0 46 | 22 55 | 1 6 | 23 16 | 23 18 | 22 12 | 13 48 | 1 41 |
| S 30 | 2s57 | 7s16 | 4n 3 | 15s 5 | 3s28 | 12s11 | 0n10 | 25s57 | 2s35 | 9s36 | 1n 2 | 4n45 | 1n58 | 14n17 | 0s27 | 11s32 | 0s46 | 22n55 | 1n 6 | 23n15 | 23n18 | 22n13 | 13n47 | 1s41 |

Julian Day Number = 2336737.5, Delta T = 20.57 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'09, Lahiri = 19°28'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## OCTOBER 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 41 17 | 8♎23'15 | 13♏13 | 1♏19 | 3♏41 | 6♑14 | 27♎36 | 22♍44 | 9°R35 | 1°R54 | 21♋ 2 | 22°R 9 | 22♊58 | 16♊39 | 11°R43 | M 1 |
| T 2 | 0 45 13 | 9°22'29 | 27°40 | 1°33 | 4°55 | 6°54 | 27°49 | 22°51 | 9♉33 | 1♓53 | 21° 3 | 22♊ 4 | 22°54 | 16°46 | 11♉40 | T 2 |
| W 3 | 0 49 10 | 10°21'45 | 12♐ 4 | 1°41 | 6° 9 | 7°34 | 28° 1 | 22°58 | 9°31 | 1°52 | 21° 3 | 22° 2 | 22°51 | 16°53 | 11°38 | W 3 |
| T 4 | 0 53 6 | 11°21'03 | 26°19 | 1°R42 | 7°22 | 8°13 | 28°14 | 23° 5 | 9°29 | 1°50 | 21° 4 | 22°D 2 | 22°48 | 16°59 | 11°35 | T 4 |
| F 5 | 0 57 3 | 12°20'22 | 10♑26 | 1°35 | 8°36 | 8°53 | 28°27 | 23°13 | 9°26 | 1°49 | 21° 4 | 22°R 2 | 22°45 | 17° 6 | 11°32 | F 5 |
| S 6 | 1 0 59 | 13°19'43 | 24°22 | 1°20 | 9°50 | 9°33 | 28°40 | 23°20 | 9°24 | 1°48 | 21° 4 | 22° 2 | 22°42 | 17°13 | 11°30 | S 6 |
| S 7 | 1 4 56 | 14°19'06 | 8♒ 8 | 0°58 | 11° 4 | 10°14 | 28°53 | 23°27 | 9°22 | 1°47 | 21° 5 | 21°59 | 22°39 | 17°19 | 11°27 | S 7 |
| M 8 | 1 8 53 | 15°18'31 | 21°44 | 0°27 | 12°18 | 10°54 | 29° 6 | 23°34 | 9°20 | 1°46 | 21° 5 | 21°54 | 22°35 | 17°26 | 11°25 | M 8 |
| T 9 | 1 12 49 | 16°17'57 | 5♓10 | 29♎48 | 13°31 | 11°34 | 29°19 | 23°41 | 9°18 | 1°45 | 21° 5 | 21°47 | 22°32 | 17°32 | 11°22 | T 9 |
| W10 | 1 16 46 | 17°17'25 | 18°24 | 29° 0 | 14°45 | 12°15 | 29°32 | 23°48 | 9°15 | 1°44 | 21° 6 | 21°37 | 22°29 | 17°39 | 11°19 | W10 |
| T 11 | 1 20 42 | 18°16'55 | 1♈26 | 28° 5 | 15°59 | 12°56 | 29°45 | 23°55 | 9°13 | 1°43 | 21° 6 | 21°26 | 22°26 | 17°46 | 11°16 | T 11 |
| F 12 | 1 24 39 | 19°16'27 | 14°15 | 27° 3 | 17°13 | 13°37 | 29°57 | 24° 2 | 9°11 | 1°42 | 21° 6 | 21°15 | 22°23 | 17°52 | 11°13 | F 12 |
| S 13 | 1 28 35 | 20°16'01 | 26°51 | 25°55 | 18°26 | 14°18 | 0♏10 | 24° 9 | 9° 9 | 1°41 | 21° 6 | 21° 4 | 22°20 | 17°59 | 11°11 | S 13 |
| S 14 | 1 32 32 | 21°15'37 | 9♉13 | 24°43 | 19°40 | 14°59 | 0°23 | 24°16 | 9° 6 | 1°40 | 21° 7 | 20°55 | 22°16 | 18° 6 | 11° 8 | S 14 |
| M15 | 1 36 28 | 22°15'15 | 21°22 | 23°29 | 20°54 | 15°40 | 0°37 | 24°23 | 9° 4 | 1°39 | 21° 7 | 20°49 | 22°13 | 18°12 | 11° 5 | M15 |
| T 16 | 1 40 25 | 23°14'56 | 3♊20 | 22°14 | 22° 8 | 16°22 | 0°50 | 24°30 | 9° 2 | 1°38 | 21° 7 | 20°45 | 22°10 | 18°19 | 11° 2 | T 16 |
| W17 | 1 44 22 | 24°14'38 | 15°11 | 21° 2 | 23°21 | 17° 3 | 1° 3 | 24°37 | 8°59 | 1°37 | 21° 7 | 20°D43 | 22° 7 | 18°26 | 10°59 | W17 |
| T 18 | 1 48 18 | 25°14'23 | 26°58 | 19°53 | 24°35 | 17°45 | 1°16 | 24°44 | 8°57 | 1°37 | 21° 7 | 20°43 | 22° 4 | 18°32 | 10°56 | T 18 |
| F 19 | 1 52 15 | 26°14'10 | 8♋46 | 18°51 | 25°48 | 18°26 | 1°29 | 24°51 | 8°54 | 1°36 | 21° 7 | 20°44 | 22° 0 | 18°39 | 10°53 | F 19 |
| S 20 | 1 56 11 | 27°14'00 | 20°39 | 17°57 | 27° 2 | 19° 8 | 1°42 | 24°58 | 8°52 | 1°35 | 21° 7 | 20°45 | 21°57 | 18°46 | 10°50 | S 20 |
| S 21 | 2 0 8 | 28°13'51 | 2♌43 | 17°12 | 28°16 | 19°50 | 1°55 | 25° 4 | 8°50 | 1°34 | 21° 7 | 20°R45 | 21°54 | 18°52 | 10°47 | S 21 |
| M22 | 2 4 4 | 29°13'45 | 15° 4 | 16°38 | 29°29 | 20°32 | 2° 8 | 25°11 | 8°47 | 1°34 | 21°R 7 | 20°43 | 21°51 | 18°59 | 10°44 | M22 |
| T 23 | 2 8 1 | 0♏13'41 | 27°46 | 16°15 | 0♐43 | 21°14 | 2°21 | 25°17 | 8°45 | 1°33 | 21° 7 | 20°40 | 21°48 | 19° 5 | 10°41 | T 23 |
| W24 | 2 11 57 | 1°13'39 | 10♍53 | 16° 3 | 1°56 | 21°56 | 2°34 | 25°24 | 8°42 | 1°32 | 21° 7 | 20°34 | 21°45 | 19°12 | 10°38 | W24 |
| T 25 | 2 15 54 | 2°13'39 | 24°26 | 16°D 3 | 3°10 | 22°39 | 2°48 | 25°31 | 8°40 | 1°32 | 21° 7 | 20°27 | 21°41 | 19°19 | 10°35 | T 25 |
| F 26 | 2 19 51 | 3°13'42 | 8♎26 | 16°14 | 4°24 | 23°21 | 3° 1 | 25°37 | 8°37 | 1°31 | 21° 7 | 20°19 | 21°38 | 19°25 | 10°32 | F 26 |
| S 27 | 2 23 47 | 4°13'46 | 22°50 | 16°36 | 5°37 | 24° 3 | 3°14 | 25°44 | 8°35 | 1°30 | 21° 7 | 20°12 | 21°35 | 19°32 | 10°29 | S 27 |
| S 28 | 2 27 44 | 5°13'53 | 7♏31 | 17° 7 | 6°51 | 24°46 | 3°27 | 25°50 | 8°32 | 1°30 | 21° 7 | 20° 5 | 21°32 | 19°39 | 10°26 | S 28 |
| M29 | 2 31 40 | 6°14'01 | 22°22 | 17°47 | 8° 4 | 25°29 | 3°40 | 25°56 | 8°30 | 1°29 | 21° 7 | 20° 0 | 21°29 | 19°45 | 10°23 | M29 |
| T 30 | 2 35 37 | 7°14'11 | 7♐15 | 18°35 | 9°18 | 26°12 | 3°53 | 26° 2 | 8°27 | 1°29 | 21° 7 | 19°58 | 21°26 | 19°52 | 10°19 | T 30 |
| W31 | 2 39 33 | 8♏14'23 | 22♐ 2 | 19♎30 | 10♐31 | 26♑54 | 4♏ 6 | 26♍ 9 | 8♉25 | 1♓29 | 21♋ 6 | 19°D57 | 21♊22 | 19♊59 | 10♉16 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3 s20 | 12 s48 | 3n10 | 15 s13 | 3 s29 | 12 s39 | 0n 7 | 25 s54 | 2 s34 | 9 s41 | 1n 2 | 4n42 | 1n58 | 14n17 | 0 s27 | 11 s32 | 0 s46 | 22n55 | 1n 6 | 23n15 | 23n18 | 22n15 | 13n46 | 1 s41 |
| T 2 | 3 43 | 17 38 | 2 5 | 15 19 | 3 30 | 13 7 | 0 4 | 25 51 | 2 33 | 9 45 | 1 2 | 4 39 | 1 58 | 14 16 | 0 27 | 11 33 | 0 46 | 22 55 | 1 6 | 23 15 | 23 17 | 22 16 | 13 45 | 1 41 |
| W 3 | 4 7 | 21 24 | 0 53 | 15 21 | 3 30 | 13 34 | 0 2 | 25 47 | 2 32 | 9 50 | 1 2 | 4 36 | 1 58 | 14 15 | 0 27 | 11 33 | 0 46 | 22 55 | 1 6 | 23 14 | 23 17 | 22 18 | 13 45 | 1 41 |
| T 4 | 4 30 | 23 49 | 0 s23 | 15 20 | 3 28 | 14 1 | 0 s 1 | 25 44 | 2 31 | 9 54 | 1 2 | 4 34 | 1 58 | 14 15 | 0 27 | 11 34 | 0 46 | 22 55 | 1 6 | 23 14 | 23 17 | 22 19 | 13 44 | 1 41 |
| F 5 | 4 53 | 24 40 | 1 36 | 15 15 | 3 26 | 14 27 | 0 4 | 25 40 | 2 29 | 9 59 | 1 2 | 4 31 | 1 59 | 14 14 | 0 27 | 11 34 | 0 46 | 22 55 | 1 6 | 23 14 | 23 17 | 22 21 | 13 43 | 1 42 |
| S 6 | 5 16 | 23 57 | 2 43 | 15 6 | 3 21 | 14 54 | 0 7 | 25 36 | 2 28 | 10 4 | 1 1 | 4 28 | 1 59 | 14 13 | 0 27 | 11 34 | 0 46 | 22 55 | 1 6 | 23 14 | 23 17 | 22 22 | 13 42 | 1 42 |
| S 7 | 5 39 | 21 48 | 3 39 | 14 53 | 3 16 | 15 19 | 0 10 | 25 32 | 2 27 | 10 8 | 1 1 | 4 25 | 1 59 | 14 12 | 0 27 | 11 35 | 0 46 | 22 55 | 1 7 | 23 14 | 23 17 | 22 24 | 13 41 | 1 42 |
| M 8 | 6 2 | 18 25 | 4 23 | 14 35 | 3 8 | 15 45 | 0 12 | 25 27 | 2 26 | 10 13 | 1 1 | 4 23 | 1 59 | 14 12 | 0 27 | 11 35 | 0 46 | 22 55 | 1 7 | 23 14 | 23 16 | 22 25 | 13 40 | 1 42 |
| T 9 | 6 25 | 14 8 | 4 51 | 14 13 | 2 59 | 16 10 | 0 15 | 25 23 | 2 25 | 10 18 | 1 1 | 4 20 | 1 59 | 14 11 | 0 27 | 11 36 | 0 46 | 22 55 | 1 7 | 23 14 | 23 16 | 22 27 | 13 39 | 1 42 |
| W10 | 6 48 | 9 14 | 5 3 | 13 45 | 2 48 | 16 35 | 0 18 | 25 18 | 2 24 | 10 22 | 1 1 | 4 17 | 1 59 | 14 10 | 0 27 | 11 36 | 0 46 | 22 55 | 1 7 | 23 13 | 23 16 | 22 28 | 13 38 | 1 42 |
| T 11 | 7 11 | 4 0 | 4 59 | 13 14 | 2 35 | 16 59 | 0 21 | 25 13 | 2 23 | 10 27 | 1 1 | 4 14 | 1 59 | 14 10 | 0 27 | 11 36 | 0 46 | 22 55 | 1 7 | 23 12 | 23 16 | 22 30 | 13 37 | 1 42 |
| F 12 | 7 33 | 1n20 | 4 40 | 12 38 | 2 21 | 17 23 | 0 24 | 25 8 | 2 21 | 10 31 | 1 1 | 4 12 | 1 59 | 14 9 | 0 27 | 11 37 | 0 46 | 22 55 | 1 7 | 23 11 | 23 16 | 22 31 | 13 36 | 1 43 |
| S 13 | 7 56 | 6 32 | 4 7 | 11 58 | 2 5 | 17 46 | 0 27 | 25 2 | 2 20 | 10 36 | 1 1 | 4 9 | 2 0 | 14 8 | 0 27 | 11 37 | 0 46 | 22 55 | 1 7 | 23 11 | 23 15 | 22 33 | 13 35 | 1 43 |
| S 14 | 8 18 | 11 23 | 3 23 | 11 15 | 1 47 | 18 9 | 0 29 | 24 56 | 2 19 | 10 41 | 1 1 | 4 7 | 2 0 | 14 7 | 0 27 | 11 37 | 0 46 | 22 56 | 1 7 | 23 10 | 23 15 | 22 34 | 13 34 | 1 43 |
| M15 | 8 41 | 15 43 | 2 31 | 10 30 | 1 28 | 18 32 | 0 32 | 24 50 | 2 18 | 10 45 | 1 1 | 4 4 | 2 0 | 14 7 | 0 27 | 11 38 | 0 46 | 22 56 | 1 7 | 23 10 | 23 15 | 22 36 | 13 33 | 1 43 |
| T 16 | 9 3 | 19 21 | 1 32 | 9 43 | 1 8 | 18 54 | 0 35 | 24 44 | 2 17 | 10 50 | 1 1 | 4 1 | 2 0 | 14 6 | 0 27 | 11 38 | 0 46 | 22 56 | 1 7 | 23 9 | 23 15 | 22 37 | 13 32 | 1 43 |
| W17 | 9 25 | 22 10 | 0 30 | 8 57 | 0 47 | 19 15 | 0 38 | 24 38 | 2 16 | 10 55 | 1 1 | 3 59 | 2 0 | 14 5 | 0 27 | 11 38 | 0 46 | 22 56 | 1 7 | 23 9 | 23 15 | 22 39 | 13 31 | 1 43 |
| T 18 | 9 47 | 24 0 | 0n34 | 8 12 | 0 26 | 19 36 | 0 41 | 24 31 | 2 14 | 10 59 | 1 1 | 3 56 | 2 0 | 14 4 | 0 27 | 11 38 | 0 46 | 22 56 | 1 8 | 23 9 | 23 15 | 22 40 | 13 30 | 1 43 |
| F 19 | 10 9 | 24 47 | 1 36 | 7 29 | 0 6 | 19 57 | 0 44 | 24 24 | 2 13 | 11 4 | 1 1 | 3 54 | 2 0 | 14 4 | 0 27 | 11 39 | 0 46 | 22 56 | 1 8 | 23 9 | 23 14 | 22 42 | 13 29 | 1 43 |
| S 20 | 10 30 | 24 26 | 2 34 | 6 50 | 0n14 | 20 17 | 0 46 | 24 17 | 2 12 | 11 8 | 1 1 | 3 51 | 2 0 | 14 3 | 0 27 | 11 39 | 0 46 | 22 56 | 1 8 | 23 9 | 23 14 | 22 43 | 13 28 | 1 44 |
| S 21 | 10 52 | 22 56 | 3 27 | 6 16 | 0 33 | 20 36 | 0 49 | 24 10 | 2 11 | 11 13 | 1 1 | 3 48 | 2 1 | 14 2 | 0 27 | 11 39 | 0 46 | 22 56 | 1 8 | 23 9 | 23 14 | 22 44 | 13 27 | 1 44 |
| M22 | 11 13 | 20 20 | 4 11 | 5 47 | 0 50 | 20 55 | 0 52 | 24 3 | 2 10 | 11 17 | 1 0 | 3 46 | 2 1 | 14 1 | 0 27 | 11 39 | 0 46 | 22 56 | 1 8 | 23 9 | 23 14 | 22 46 | 13 26 | 1 44 |
| T 23 | 11 34 | 16 42 | 4 44 | 5 23 | 1 6 | 21 14 | 0 55 | 23 55 | 2 8 | 11 22 | 1 0 | 3 43 | 2 1 | 14 1 | 0 27 | 11 40 | 0 46 | 22 56 | 1 8 | 23 9 | 23 14 | 22 47 | 13 24 | 1 44 |
| W24 | 11 55 | 12 11 | 5 4 | 5 6 | 1 20 | 21 32 | 0 58 | 23 47 | 2 7 | 11 26 | 1 0 | 3 41 | 2 1 | 14 0 | 0 27 | 11 40 | 0 46 | 22 56 | 1 8 | 23 9 | 23 13 | 22 49 | 13 23 | 1 44 |
| T 25 | 12 16 | 6 55 | 5 7 | 4 55 | 1 32 | 21 49 | 1 0 | 23 39 | 2 6 | 11 31 | 1 0 | 3 39 | 2 1 | 13 59 | 0 27 | 11 40 | 0 46 | 22 56 | 1 8 | 23 8 | 23 13 | 22 50 | 13 22 | 1 44 |
| F 26 | 12 37 | 1 8 | 4 53 | 4 49 | 1 43 | 22 5 | 1 3 | 23 30 | 2 5 | 11 36 | 1 0 | 3 36 | 2 1 | 13 58 | 0 27 | 11 40 | 0 46 | 22 57 | 1 8 | 23 8 | 23 13 | 22 52 | 13 21 | 1 44 |
| S 27 | 12 57 | 4 s52 | 4 20 | 4 49 | 1 52 | 22 21 | 1 6 | 23 22 | 2 4 | 11 40 | 1 0 | 3 34 | 2 2 | 13 57 | 0 27 | 11 41 | 0 46 | 22 57 | 1 8 | 23 7 | 23 13 | 22 53 | 13 20 | 1 44 |
| S 28 | 13 17 | 10 44 | 3 29 | 4 54 | 1 59 | 22 37 | 1 8 | 23 13 | 2 2 | 11 45 | 1 0 | 3 31 | 2 2 | 13 57 | 0 27 | 11 41 | 0 46 | 22 57 | 1 8 | 23 7 | 23 13 | 22 54 | 13 19 | 1 45 |
| M29 | 13 37 | 16 4 | 2 24 | 5 4 | 2 5 | 22 51 | 1 11 | 23 4 | 2 1 | 11 49 | 1 0 | 3 29 | 2 2 | 13 56 | 0 27 | 11 41 | 0 46 | 22 57 | 1 9 | 23 6 | 23 12 | 22 56 | 13 18 | 1 45 |
| T 30 | 13 57 | 20 26 | 1 8 | 5 19 | 2 9 | 23 6 | 1 14 | 22 55 | 2 0 | 11 53 | 1 0 | 3 27 | 2 2 | 13 55 | 0 27 | 11 41 | 0 46 | 22 57 | 1 9 | 23 6 | 23 12 | 22 57 | 13 17 | 1 45 |
| W31 | 14 s17 | 23 s26 | 0 s11 | 5 s37 | 2n12 | 23 s19 | 1 s16 | 22 s45 | 1 s59 | 11 s58 | 1n 0 | 3n24 | 2n 2 | 13n54 | 0 s27 | 11 s41 | 0 s46 | 22n57 | 1n 9 | 23n 6 | 23n12 | 22n59 | 13n16 | 1 s45 |

Julian Day Number = 2336767.5, Delta T = 20.52 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'13, Lahiri = 19°28'14Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

## NOVEMBER 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 43 30 | 9♏14'36 | 6♑37 | 20♎31 | 11♐45 | 27♑37 | 4♏20 | 26♍15 | 8°R22 | 1°R28 | 21°R 6 | 19♊58 | 21♊19 | 20♊ 5 | 10°R13 | T 1 |
| F 2 | 2 47 26 | 10°14'51 | 20°56 | 21°38 | 12°58 | 28°20 | 4°33 | 26°21 | 8♉20 | 1♓28 | 21♋ 6 | 19°59 | 21°16 | 20°12 | 10♉10 | F 2 |
| S 3 | 2 51 23 | 11°15'08 | 4♒58 | 22°50 | 14°11 | 29° 3 | 4°46 | 26°27 | 8°17 | 1°27 | 21° 5 | 20°R 0 | 21°13 | 20°19 | 10° 7 | S 3 |
| S 4 | 2 55 20 | 12°15'25 | 18°41 | 24° 5 | 15°25 | 29°47 | 4°59 | 26°33 | 8°15 | 1°27 | 21° 5 | 20° 0 | 21°10 | 20°25 | 10° 4 | S 4 |
| M 5 | 2 59 16 | 13°15'44 | 2♓ 7 | 25°24 | 16°38 | 0♒30 | 5°12 | 26°39 | 8°13 | 1°27 | 21° 5 | 19°59 | 21° 6 | 20°32 | 10° 1 | M 5 |
| T 6 | 3 3 13 | 14°16'05 | 15°17 | 26°46 | 17°51 | 1°13 | 5°25 | 26°45 | 8°10 | 1°27 | 21° 4 | 19°55 | 21° 3 | 20°38 | 9°58 | T 6 |
| W 7 | 3 7 9 | 15°16'27 | 28°12 | 28°11 | 19° 5 | 1°56 | 5°38 | 26°51 | 8° 8 | 1°27 | 21° 4 | 19°50 | 21° 0 | 20°45 | 9°54 | W 7 |
| T 8 | 3 11 6 | 16°16'50 | 10♈54 | 29°37 | 20°18 | 2°40 | 5°51 | 26°56 | 8° 5 | 1°26 | 21° 4 | 19°45 | 20°57 | 20°52 | 9°51 | T 8 |
| F 9 | 3 15 2 | 17°17'15 | 23°23 | 1♏ 5 | 21°31 | 3°23 | 6° 4 | 27° 2 | 8° 3 | 1°26 | 21° 3 | 19°39 | 20°54 | 20°58 | 9°48 | F 9 |
| S 10 | 3 18 59 | 18°17'42 | 5♉42 | 2°35 | 22°45 | 4° 7 | 6°17 | 27° 8 | 8° 0 | 1°26 | 21° 3 | 19°33 | 20°51 | 21° 5 | 9°45 | S 10 |
| S 11 | 3 22 55 | 19°18'10 | 17°50 | 4° 5 | 23°58 | 4°50 | 6°30 | 27°13 | 7°58 | 1°26 | 21° 2 | 19°29 | 20°47 | 21°12 | 9°42 | S 11 |
| M12 | 3 26 52 | 20°18'40 | 29°50 | 5°37 | 25°11 | 5°34 | 6°43 | 27°19 | 7°55 | 1°D26 | 21° 2 | 19°25 | 20°44 | 21°18 | 9°39 | M12 |
| T 13 | 3 30 49 | 21°19'11 | 11♊43 | 7° 9 | 26°24 | 6°18 | 6°56 | 27°24 | 7°53 | 1°26 | 21° 1 | 19°24 | 20°41 | 21°25 | 9°36 | T 13 |
| W14 | 3 34 45 | 22°19'44 | 23°32 | 8°42 | 27°37 | 7° 1 | 7° 9 | 27°30 | 7°51 | 1°26 | 21° 1 | 19°D23 | 20°38 | 21°32 | 9°33 | W14 |
| T 15 | 3 38 42 | 23°20'19 | 5♋18 | 10°16 | 28°50 | 7°45 | 7°22 | 27°35 | 7°48 | 1°26 | 21° 0 | 19°24 | 20°35 | 21°38 | 9°30 | T 15 |
| F 16 | 3 42 38 | 24°20'55 | 17° 6 | 11°49 | 0♑ 3 | 8°29 | 7°35 | 27°40 | 7°46 | 1°26 | 20°59 | 19°26 | 20°31 | 21°45 | 9°27 | F 16 |
| S 17 | 3 46 35 | 25°21'33 | 28°59 | 13°23 | 1°16 | 9°13 | 7°48 | 27°45 | 7°44 | 1°26 | 20°59 | 19°28 | 20°28 | 21°52 | 9°24 | S 17 |
| S 18 | 3 50 31 | 26°22'13 | 11♌ 3 | 14°58 | 2°29 | 9°57 | 8° 1 | 27°50 | 7°41 | 1°27 | 20°58 | 19°29 | 20°25 | 21°58 | 9°21 | S 18 |
| M19 | 3 54 28 | 27°22'54 | 23°21 | 16°32 | 3°42 | 10°41 | 8°13 | 27°55 | 7°39 | 1°27 | 20°57 | 19°R30 | 20°22 | 22° 5 | 9°18 | M19 |
| T 20 | 3 58 24 | 28°23'37 | 5♍58 | 18° 6 | 4°55 | 11°25 | 8°26 | 28° 0 | 7°37 | 1°27 | 20°57 | 19°30 | 20°19 | 22°12 | 9°15 | T 20 |
| W21 | 4 2 21 | 29°24'21 | 18°59 | 19°41 | 6° 8 | 12° 9 | 8°39 | 28° 5 | 7°34 | 1°27 | 20°56 | 19°29 | 20°16 | 22°18 | 9°12 | W21 |
| T 22 | 4 6 18 | 0♐25'07 | 2♎26 | 21°15 | 7°21 | 12°53 | 8°52 | 28°10 | 7°32 | 1°28 | 20°55 | 19°27 | 20°12 | 22°25 | 9° 9 | T 22 |
| F 23 | 4 10 14 | 1°25'55 | 16°22 | 22°50 | 8°34 | 13°37 | 9° 4 | 28°14 | 7°30 | 1°28 | 20°55 | 19°25 | 20° 9 | 22°31 | 9° 6 | F 23 |
| S 24 | 4 14 11 | 2°26'44 | 0♏44 | 24°24 | 9°46 | 14°21 | 9°17 | 28°19 | 7°28 | 1°28 | 20°54 | 19°22 | 20° 6 | 22°38 | 9° 4 | S 24 |
| S 25 | 4 18 7 | 3°27'35 | 15°30 | 25°59 | 10°59 | 15° 5 | 9°29 | 28°24 | 7°26 | 1°29 | 20°53 | 19°20 | 20° 3 | 22°45 | 9° 1 | S 25 |
| M26 | 4 22 4 | 4°28'27 | 0♐32 | 27°33 | 12°12 | 15°49 | 9°42 | 28°28 | 7°23 | 1°29 | 20°52 | 19°19 | 20° 0 | 22°51 | 8°58 | M26 |
| T 27 | 4 26 0 | 5°29'20 | 15°42 | 29° 7 | 13°25 | 16°34 | 9°55 | 28°32 | 7°21 | 1°30 | 20°51 | 19°D18 | 19°57 | 22°58 | 8°55 | T 27 |
| W28 | 4 29 57 | 6°30'14 | 0♑50 | 0♐42 | 14°37 | 17°18 | 10° 7 | 28°37 | 7°19 | 1°30 | 20°50 | 19°18 | 19°53 | 23° 5 | 8°53 | W28 |
| T 29 | 4 33 53 | 7°31'10 | 15°48 | 2°16 | 15°50 | 18° 2 | 10°19 | 28°41 | 7°17 | 1°31 | 20°50 | 19°19 | 19°50 | 23°11 | 8°50 | T 29 |
| F 30 | 4 37 50 | 8♐32'06 | 0♒27 | 3♐50 | 17♑ 2 | 18♒47 | 10♏32 | 28♍45 | 7♉15 | 1♓32 | 20♋49 | 19♊20 | 19♊47 | 23♊18 | 8♉47 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s36 | 24s48 | 1s29 | 5s58 | 2n13 | 23s32 | 1s19 | 22s35 | 1s57 | 12s 2 | 1n 0 | 3n22 | 2n 2 | 13n53 | 0s27 | 11s41 | 0s46 | 22n57 | 1n 9 | 23n 6 | 23n12 | 23n 0 | 13n15 | 1s45 |
| F 2 | 14 55 | 24 29 | 2 41 | 6 23 | 2 14 | 23 44 | 1 21 | 22 26 | 1 56 | 12 7 | 1 0 | 3 20 | 2 3 | 13 53 | 0 27 | 11 41 | 0 46 | 22 57 | 1 9 | 23 6 | 23 12 | 23 1 | 13 14 | 1 45 |
| S 3 | 15 14 | 22 37 | 3 41 | 6 50 | 2 13 | 23 55 | 1 24 | 22 15 | 1 55 | 12 11 | 1 0 | 3 17 | 2 3 | 13 52 | 0 27 | 11 41 | 0 46 | 22 58 | 1 9 | 23 6 | 23 11 | 23 3 | 13 13 | 1 45 |
| S 4 | 15 32 | 19 28 | 4 26 | 7 19 | 2 12 | 24 6 | 1 26 | 22 5 | 1 54 | 12 16 | 1 0 | 3 15 | 2 3 | 13 51 | 0 27 | 11 42 | 0 46 | 22 58 | 1 9 | 23 6 | 23 11 | 23 4 | 13 12 | 1 45 |
| M 5 | 15 51 | 15 21 | 4 57 | 7 50 | 2 10 | 24 16 | 1 28 | 21 55 | 1 53 | 12 20 | 1 0 | 3 13 | 2 3 | 13 50 | 0 27 | 11 42 | 0 46 | 22 58 | 1 9 | 23 6 | 23 11 | 23 5 | 13 11 | 1 45 |
| T 6 | 16 9 | 10 35 | 5 11 | 8 22 | 2 7 | 24 26 | 1 31 | 21 44 | 1 51 | 12 24 | 1 0 | 3 11 | 2 3 | 13 50 | 0 27 | 11 42 | 0 46 | 22 58 | 1 9 | 23 6 | 23 11 | 23 7 | 13 10 | 1 45 |
| W 7 | 16 27 | 5 26 | 5 8 | 8 55 | 2 4 | 24 34 | 1 33 | 21 33 | 1 50 | 12 29 | 1 0 | 3 9 | 2 4 | 13 49 | 0 27 | 11 42 | 0 46 | 22 58 | 1 9 | 23 5 | 23 10 | 23 8 | 13 8 | 1 45 |
| T 8 | 16 44 | 0 8 | 4 51 | 9 30 | 1 59 | 24 42 | 1 35 | 21 22 | 1 49 | 12 33 | 1 0 | 3 7 | 2 4 | 13 48 | 0 27 | 11 42 | 0 46 | 22 58 | 1 9 | 23 5 | 23 10 | 23 9 | 13 7 | 1 46 |
| F 9 | 17 1 | 5n 5 | 4 20 | 10 4 | 1 55 | 24 50 | 1 37 | 21 11 | 1 48 | 12 37 | 1 0 | 3 5 | 2 4 | 13 47 | 0 27 | 11 42 | 0 46 | 22 59 | 1 10 | 23 5 | 23 10 | 23 11 | 13 6 | 1 46 |
| S 10 | 17 18 | 10 2 | 3 37 | 10 40 | 1 50 | 24 56 | 1 39 | 20 59 | 1 46 | 12 42 | 1 0 | 3 3 | 2 4 | 13 46 | 0 27 | 11 42 | 0 46 | 22 59 | 1 10 | 23 4 | 23 10 | 23 12 | 13 5 | 1 46 |
| S 11 | 17 35 | 14 33 | 2 44 | 11 16 | 1 45 | 25 2 | 1 41 | 20 47 | 1 45 | 12 46 | 1 0 | 3 1 | 2 4 | 13 46 | 0 27 | 11 42 | 0 46 | 22 59 | 1 10 | 23 4 | 23 10 | 23 13 | 13 4 | 1 46 |
| M12 | 17 51 | 18 26 | 1 45 | 11 52 | 1 39 | 25 7 | 1 43 | 20 36 | 1 44 | 12 50 | 1 0 | 2 59 | 2 5 | 13 45 | 0 27 | 11 42 | 0 46 | 22 59 | 1 10 | 23 3 | 23 9 | 23 15 | 13 3 | 1 46 |
| T 13 | 18 7 | 21 32 | 0 42 | 12 27 | 1 33 | 25 11 | 1 45 | 20 23 | 1 43 | 12 54 | 1 0 | 2 57 | 2 5 | 13 44 | 0 27 | 11 42 | 0 46 | 22 59 | 1 10 | 23 3 | 23 9 | 23 16 | 13 2 | 1 46 |
| W14 | 18 23 | 23 42 | 0n23 | 13 3 | 1 27 | 25 15 | 1 47 | 20 11 | 1 42 | 12 59 | 1 0 | 2 55 | 2 5 | 13 43 | 0 27 | 11 42 | 0 46 | 22 59 | 1 10 | 23 3 | 23 9 | 23 17 | 13 1 | 1 46 |
| T 15 | 18 38 | 24 49 | 1 27 | 13 39 | 1 21 | 25 18 | 1 49 | 19 59 | 1 40 | 13 3 | 1 0 | 2 53 | 2 5 | 13 43 | 0 27 | 11 42 | 0 46 | 23 0 | 1 10 | 23 3 | 23 9 | 23 19 | 13 0 | 1 46 |
| F 16 | 18 53 | 24 49 | 2 27 | 14 14 | 1 14 | 25 20 | 1 51 | 19 46 | 1 39 | 13 7 | 1 0 | 2 51 | 2 5 | 13 42 | 0 27 | 11 42 | 0 46 | 23 0 | 1 10 | 23 4 | 23 8 | 23 20 | 12 59 | 1 46 |
| S 17 | 19 8 | 23 41 | 3 21 | 14 49 | 1 8 | 25 21 | 1 52 | 19 33 | 1 38 | 13 11 | 1 0 | 2 49 | 2 6 | 13 41 | 0 27 | 11 42 | 0 46 | 23 0 | 1 10 | 23 4 | 23 8 | 23 21 | 12 58 | 1 46 |
| S 18 | 19 22 | 21 27 | 4 8 | 15 23 | 1 1 | 25 21 | 1 54 | 19 20 | 1 37 | 13 15 | 1 0 | 2 47 | 2 6 | 13 40 | 0 27 | 11 42 | 0 46 | 23 0 | 1 10 | 23 4 | 23 8 | 23 23 | 12 57 | 1 46 |
| M19 | 19 37 | 18 13 | 4 44 | 15 57 | 0 54 | 25 21 | 1 56 | 19 7 | 1 35 | 13 19 | 1 0 | 2 45 | 2 6 | 13 40 | 0 27 | 11 41 | 0 46 | 23 0 | 1 11 | 23 4 | 23 8 | 23 24 | 12 56 | 1 46 |
| T 20 | 19 50 | 14 6 | 5 7 | 16 30 | 0 47 | 25 20 | 1 57 | 18 54 | 1 34 | 13 24 | 1 0 | 2 44 | 2 6 | 13 39 | 0 27 | 11 41 | 0 46 | 23 0 | 1 11 | 23 4 | 23 8 | 23 25 | 12 55 | 1 46 |
| W21 | 20 3 | 9 13 | 5 16 | 17 2 | 0 40 | 25 19 | 1 58 | 18 40 | 1 33 | 13 28 | 1 0 | 2 42 | 2 7 | 13 38 | 0 27 | 11 41 | 0 46 | 23 1 | 1 11 | 23 4 | 23 7 | 23 26 | 12 54 | 1 46 |
| T 22 | 20 16 | 3 44 | 5 8 | 17 34 | 0 33 | 25 16 | 2 0 | 18 27 | 1 32 | 13 32 | 1 0 | 2 40 | 2 7 | 13 37 | 0 27 | 11 41 | 0 46 | 23 1 | 1 11 | 23 4 | 23 7 | 23 28 | 12 53 | 1 47 |
| F 23 | 20 29 | 2s 6 | 4 42 | 18 5 | 0 26 | 25 13 | 2 1 | 18 13 | 1 31 | 13 36 | 1 0 | 2 39 | 2 7 | 13 37 | 0 27 | 11 41 | 0 46 | 23 1 | 1 11 | 23 3 | 23 7 | 23 29 | 12 52 | 1 47 |
| S 24 | 20 41 | 8 2 | 3 58 | 18 36 | 0 19 | 25 9 | 2 2 | 17 59 | 1 29 | 13 40 | 1 0 | 2 37 | 2 7 | 13 36 | 0 27 | 11 41 | 0 46 | 23 1 | 1 11 | 23 3 | 23 7 | 23 30 | 12 51 | 1 47 |
| S 25 | 20 53 | 13 42 | 2 57 | 19 5 | 0 12 | 25 4 | 2 3 | 17 45 | 1 28 | 13 44 | 1 0 | 2 35 | 2 8 | 13 35 | 0 27 | 11 41 | 0 46 | 23 2 | 1 11 | 23 3 | 23 6 | 23 31 | 12 50 | 1 47 |
| M26 | 21 4 | 18 38 | 1 42 | 19 33 | 0 5 | 24 59 | 2 4 | 17 30 | 1 27 | 13 48 | 1 0 | 2 34 | 2 8 | 13 35 | 0 27 | 11 40 | 0 46 | 23 2 | 1 11 | 23 3 | 23 6 | 23 33 | 12 50 | 1 47 |
| T 27 | 21 15 | 22 23 | 0 20 | 20 1 | 0s 1 | 24 53 | 2 5 | 17 16 | 1 26 | 13 52 | 1 0 | 2 32 | 2 8 | 13 34 | 0 27 | 11 40 | 0 46 | 23 2 | 1 11 | 23 3 | 23 6 | 23 34 | 12 49 | 1 47 |
| W28 | 21 26 | 24 32 | 1s 4 | 20 28 | 0 8 | 24 46 | 2 6 | 17 1 | 1 25 | 13 55 | 1 0 | 2 31 | 2 8 | 13 33 | 0 27 | 11 40 | 0 46 | 23 2 | 1 11 | 23 3 | 23 6 | 23 35 | 12 48 | 1 47 |
| T 29 | 21 36 | 24 54 | 2 22 | 20 54 | 0 15 | 24 38 | 2 7 | 16 46 | 1 23 | 13 59 | 1 0 | 2 29 | 2 8 | 13 33 | 0 27 | 11 40 | 0 46 | 23 2 | 1 11 | 23 3 | 23 5 | 23 36 | 12 47 | 1 47 |
| F 30 | 21s46 | 23s29 | 3s29 | 21s18 | 0s21 | 24s30 | 2s 8 | 16s31 | 1s22 | 14s 3 | 1n 0 | 2n28 | 2n 9 | 13n32 | 0s27 | 11s40 | 0s46 | 23n 3 | 1n11 | 23n 3 | 23n 5 | 23n38 | 12n46 | 1s47 |

Julian Day Number = 2336798.5, Delta T = 20.48 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'18, Lahiri = 19°28'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1685
# geocentric

## DECEMBER 1685 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 41 47 | 9♐33'03 | 14♒45 | 5♐24 | 18♑15 | 19♒31 | 10♏44 | 28♍49 | 7°R13 | 1♓32 | 20°R48 | 19♊21 | 19♊44 | 23♊25 | 8°R45 | S 1 |
| S 2 | 4 45 43 | 10°34'00 | 28°37 | 6°58 | 19°27 | 20°15 | 10°57 | 28°53 | 7♉11 | 1°33 | 20♋47 | 19°21 | 19°41 | 23°31 | 8♉42 | S 2 |
| M 3 | 4 49 40 | 11°34'58 | 12♓ 5 | 8°32 | 20°40 | 21° 0 | 11° 9 | 28°57 | 7° 9 | 1°34 | 20°46 | 19°R22 | 19°37 | 23°38 | 8°40 | M 3 |
| T 4 | 4 53 36 | 12°35'57 | 25°11 | 10° 7 | 21°52 | 21°44 | 11°21 | 29° 0 | 7° 7 | 1°34 | 20°45 | 19°21 | 19°34 | 23°45 | 8°37 | T 4 |
| W 5 | 4 57 33 | 13°36'56 | 7♈57 | 11°41 | 23° 4 | 22°29 | 11°33 | 29° 4 | 7° 5 | 1°35 | 20°44 | 19°21 | 19°31 | 23°51 | 8°35 | W 5 |
| T 6 | 5 1 29 | 14°37'56 | 20°26 | 13°15 | 24°16 | 23°13 | 11°45 | 29° 7 | 7° 4 | 1°36 | 20°43 | 19°20 | 19°28 | 23°58 | 8°33 | T 6 |
| F 7 | 5 5 26 | 15°38'57 | 2♉41 | 14°49 | 25°28 | 23°58 | 11°57 | 29°11 | 7° 2 | 1°37 | 20°42 | 19°20 | 19°25 | 24° 4 | 8°30 | F 7 |
| S 8 | 5 9 22 | 16°39'58 | 14°46 | 16°24 | 26°40 | 24°42 | 12° 9 | 29°14 | 7° 0 | 1°38 | 20°41 | 19°19 | 19°22 | 24°11 | 8°28 | S 8 |
| S 9 | 5 13 19 | 17°41'00 | 26°43 | 17°58 | 27°52 | 25°27 | 12°21 | 29°18 | 6°58 | 1°38 | 20°40 | 19°19 | 19°18 | 24°18 | 8°26 | S 9 |
| M10 | 5 17 16 | 18°42'03 | 8♊35 | 19°33 | 29° 4 | 26°11 | 12°33 | 29°21 | 6°57 | 1°39 | 20°39 | 19°19 | 19°15 | 24°24 | 8°23 | M10 |
| T 11 | 5 21 12 | 19°43'06 | 20°24 | 21° 7 | 0♒16 | 26°56 | 12°45 | 29°24 | 6°55 | 1°40 | 20°38 | 19°19 | 19°12 | 24°31 | 8°21 | T 11 |
| W12 | 5 25 9 | 20°44'10 | 2♋11 | 22°42 | 1°28 | 27°40 | 12°56 | 29°27 | 6°53 | 1°41 | 20°37 | 19°19 | 19° 9 | 24°38 | 8°19 | W12 |
| T 13 | 5 29 5 | 21°45'15 | 14° 0 | 24°17 | 2°40 | 28°25 | 13° 8 | 29°30 | 6°52 | 1°42 | 20°35 | 19°19 | 19° 6 | 24°44 | 8°17 | T 13 |
| F 14 | 5 33 2 | 22°46'20 | 25°53 | 25°52 | 3°51 | 29° 9 | 13°20 | 29°32 | 6°50 | 1°43 | 20°34 | 19°18 | 19° 3 | 24°51 | 8°15 | F 14 |
| S 15 | 5 36 58 | 23°47'26 | 7♌51 | 27°27 | 5° 3 | 29°54 | 13°31 | 29°35 | 6°49 | 1°45 | 20°33 | 19°18 | 18°59 | 24°58 | 8°13 | S 15 |
| S 16 | 5 40 55 | 24°48'32 | 19°58 | 29° 3 | 6°14 | 0♓39 | 13°43 | 29°38 | 6°47 | 1°46 | 20°32 | 19°17 | 18°56 | 25° 4 | 8°11 | S 16 |
| M17 | 5 44 51 | 25°49'40 | 2♍18 | 0♑39 | 7°25 | 1°23 | 13°54 | 29°40 | 6°46 | 1°47 | 20°31 | 19°17 | 18°53 | 25°11 | 8° 9 | M17 |
| T 18 | 5 48 48 | 26°50'48 | 14°53 | 2°14 | 8°37 | 2° 8 | 14° 5 | 29°43 | 6°45 | 1°48 | 20°30 | 19°16 | 18°50 | 25°18 | 8° 8 | T 18 |
| W19 | 5 52 45 | 27°51'56 | 27°48 | 3°50 | 9°48 | 2°52 | 14°17 | 29°45 | 6°43 | 1°49 | 20°29 | 19°D16 | 18°47 | 25°24 | 8° 6 | W19 |
| T 20 | 5 56 41 | 28°53'05 | 11♎ 6 | 5°27 | 10°59 | 3°37 | 14°28 | 29°47 | 6°42 | 1°50 | 20°27 | 19°16 | 18°43 | 25°31 | 8° 4 | T 20 |
| F 21 | 6 0 38 | 29°54'15 | 24°49 | 7° 3 | 12°10 | 4°21 | 14°39 | 29°49 | 6°41 | 1°52 | 20°26 | 19°17 | 18°40 | 25°38 | 8° 2 | F 21 |
| S 22 | 6 4 34 | 0♑55'26 | 8♏57 | 8°40 | 13°21 | 5° 6 | 14°50 | 29°51 | 6°40 | 1°53 | 20°25 | 19°18 | 18°37 | 25°44 | 8° 1 | S 22 |
| S 23 | 6 8 31 | 1°56'37 | 23°31 | 10°17 | 14°31 | 5°51 | 15° 1 | 29°53 | 6°39 | 1°54 | 20°24 | 19°19 | 18°34 | 25°51 | 7°59 | S 23 |
| M24 | 6 12 27 | 2°57'48 | 8♐25 | 11°54 | 15°42 | 6°35 | 15°11 | 29°55 | 6°37 | 1°56 | 20°23 | 19°19 | 18°31 | 25°57 | 7°58 | M24 |
| T 25 | 6 16 24 | 3°59'00 | 23°34 | 13°31 | 16°53 | 7°20 | 15°22 | 29°56 | 6°36 | 1°57 | 20°21 | 19°R20 | 18°28 | 26° 4 | 7°56 | T 25 |
| W26 | 6 20 21 | 5° 0'12 | 8♑48 | 15° 8 | 18° 3 | 8° 4 | 15°33 | 29°58 | 6°35 | 1°59 | 20°20 | 19°19 | 18°24 | 26°11 | 7°55 | W26 |
| T 27 | 6 24 17 | 6° 1'24 | 23°57 | 16°45 | 19°13 | 8°49 | 15°43 | 29°59 | 6°35 | 2° 0 | 20°19 | 19°17 | 18°21 | 26°17 | 7°54 | T 27 |
| F 28 | 6 28 14 | 7° 2'37 | 8♒52 | 18°22 | 20°24 | 9°33 | 15°54 | 0♎ 1 | 6°34 | 2° 1 | 20°18 | 19°15 | 18°18 | 26°24 | 7°53 | F 28 |
| S 29 | 6 32 10 | 8° 3'48 | 23°26 | 20° 0 | 21°34 | 10°18 | 16° 4 | 0° 2 | 6°33 | 2° 3 | 20°16 | 19°13 | 18°15 | 26°31 | 7°51 | S 29 |
| S 30 | 6 36 7 | 9° 5'00 | 7♓33 | 21°37 | 22°44 | 11° 3 | 16°15 | 0° 3 | 6°32 | 2° 4 | 20°15 | 19°10 | 18°12 | 26°37 | 7°50 | S 30 |
| M31 | 6 40 3 | 10♑ 6'11 | 21♓12 | 23♑13 | 23♒54 | 11♓47 | 16♏25 | 0♎ 4 | 6♉31 | 2♓ 6 | 20♋14 | 19♊ 8 | 18♊ 9 | 26♊44 | 7♉49 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s55 | 20s36 | 4s22 | 21s42 | 0s28 | 24s21 | 2s 8 | 16s16 | 1s21 | 14s 7 | 1n 0 | 2n27 | 2n 9 | 13n31 | 0s27 | 11s39 | 0s46 | 23n 3 | 1n12 | 23n 3 | 23n 5 | 23n39 | 12n45 | 1s47 |
| S 2 | 22 4 | 16 37 | 4 57 | 22 5 | 0 34 | 24 11 | 2 9 | 16 1 | 1 20 | 14 11 | 1 0 | 2 25 | 2 9 | 13 31 | 0 27 | 11 39 | 0 46 | 23 3 | 1 12 | 23 3 | 23 5 | 23 40 | 12 44 | 1 47 |
| M 3 | 22 13 | 11 53 | 5 15 | 22 26 | 0 41 | 24 1 | 2 9 | 15 46 | 1 19 | 14 15 | 1 0 | 2 24 | 2 9 | 13 30 | 0 27 | 11 39 | 0 46 | 23 3 | 1 12 | 23 3 | 23 4 | 23 41 | 12 43 | 1 47 |
| T 4 | 22 21 | 6 45 | 5 16 | 22 47 | 0 47 | 23 50 | 2 9 | 15 30 | 1 17 | 14 18 | 1 0 | 2 23 | 2 10 | 13 30 | 0 27 | 11 39 | 0 46 | 23 4 | 1 12 | 23 3 | 23 4 | 23 42 | 12 43 | 1 47 |
| W 5 | 22 28 | 1 27 | 5 1 | 23 6 | 0 53 | 23 38 | 2 9 | 15 15 | 1 16 | 14 22 | 1 0 | 2 22 | 2 10 | 13 29 | 0 27 | 11 38 | 0 46 | 23 4 | 1 12 | 23 3 | 23 4 | 23 44 | 12 42 | 1 47 |
| T 6 | 22 36 | 3n47 | 4 32 | 23 24 | 0 59 | 23 25 | 2 10 | 14 59 | 1 15 | 14 26 | 1 0 | 2 20 | 2 10 | 13 28 | 0 27 | 11 38 | 0 46 | 23 4 | 1 12 | 23 3 | 23 4 | 23 45 | 12 41 | 1 47 |
| F 7 | 22 42 | 8 48 | 3 51 | 23 41 | 1 5 | 23 12 | 2 10 | 14 43 | 1 14 | 14 29 | 1 0 | 2 19 | 2 11 | 13 28 | 0 27 | 11 38 | 0 45 | 23 4 | 1 12 | 23 3 | 23 3 | 23 46 | 12 40 | 1 47 |
| S 8 | 22 49 | 13 25 | 3 1 | 23 57 | 1 10 | 22 59 | 2 10 | 14 27 | 1 13 | 14 33 | 1 1 | 2 18 | 2 11 | 13 27 | 0 27 | 11 37 | 0 45 | 23 4 | 1 12 | 23 3 | 23 3 | 23 47 | 12 40 | 1 47 |
| S 9 | 22 55 | 17 28 | 2 2 | 24 11 | 1 16 | 22 44 | 2 9 | 14 11 | 1 11 | 14 36 | 1 1 | 2 17 | 2 11 | 13 27 | 0 27 | 11 37 | 0 45 | 23 5 | 1 12 | 23 3 | 23 3 | 23 48 | 12 39 | 1 47 |
| M10 | 23 0 | 20 48 | 0 59 | 24 25 | 1 21 | 22 29 | 2 9 | 13 55 | 1 10 | 14 40 | 1 1 | 2 16 | 2 11 | 13 26 | 0 27 | 11 37 | 0 45 | 23 5 | 1 12 | 23 3 | 23 3 | 23 49 | 12 38 | 1 47 |
| T 11 | 23 5 | 23 14 | 0n 6 | 24 37 | 1 26 | 22 13 | 2 9 | 13 38 | 1 9 | 14 44 | 1 1 | 2 15 | 2 12 | 13 26 | 0 27 | 11 36 | 0 45 | 23 5 | 1 12 | 23 3 | 23 2 | 23 51 | 12 37 | 1 47 |
| W12 | 23 9 | 24 39 | 1 11 | 24 47 | 1 31 | 21 57 | 2 8 | 13 22 | 1 8 | 14 47 | 1 1 | 2 14 | 2 12 | 13 25 | 0 26 | 11 36 | 0 45 | 23 5 | 1 12 | 23 3 | 23 2 | 23 52 | 12 37 | 1 47 |
| T 13 | 23 13 | 24 57 | 2 13 | 24 57 | 1 35 | 21 40 | 2 8 | 13 5 | 1 7 | 14 51 | 1 1 | 2 13 | 2 12 | 13 25 | 0 26 | 11 36 | 0 45 | 23 6 | 1 13 | 23 3 | 23 2 | 23 53 | 12 36 | 1 47 |
| F 14 | 23 17 | 24 7 | 3 10 | 25 5 | 1 40 | 21 23 | 2 7 | 12 49 | 1 6 | 14 54 | 1 1 | 2 12 | 2 12 | 13 24 | 0 26 | 11 35 | 0 45 | 23 6 | 1 13 | 23 3 | 23 2 | 23 54 | 12 35 | 1 47 |
| S 15 | 23 20 | 22 10 | 3 58 | 25 11 | 1 44 | 21 5 | 2 6 | 12 32 | 1 4 | 14 57 | 1 1 | 2 12 | 2 13 | 13 24 | 0 26 | 11 35 | 0 45 | 23 6 | 1 13 | 23 3 | 23 1 | 23 55 | 12 35 | 1 47 |
| S 16 | 23 23 | 19 14 | 4 37 | 25 16 | 1 48 | 20 46 | 2 5 | 12 15 | 1 3 | 15 1 | 1 1 | 2 11 | 2 13 | 13 23 | 0 26 | 11 34 | 0 45 | 23 6 | 1 13 | 23 3 | 23 1 | 23 56 | 12 34 | 1 47 |
| M17 | 23 25 | 15 24 | 5 4 | 25 20 | 1 51 | 20 27 | 2 4 | 11 58 | 1 2 | 15 4 | 1 1 | 2 10 | 2 13 | 13 23 | 0 26 | 11 34 | 0 45 | 23 7 | 1 13 | 23 3 | 23 1 | 23 57 | 12 33 | 1 47 |
| T 18 | 23 27 | 10 50 | 5 17 | 25 22 | 1 55 | 20 7 | 2 3 | 11 41 | 1 1 | 15 7 | 1 1 | 2 9 | 2 14 | 13 23 | 0 26 | 11 33 | 0 45 | 23 7 | 1 13 | 23 3 | 23 1 | 23 59 | 12 33 | 1 47 |
| W19 | 23 28 | 5 41 | 5 14 | 25 23 | 1 58 | 19 47 | 2 2 | 11 24 | 1 0 | 15 11 | 1 1 | 2 9 | 2 14 | 13 22 | 0 26 | 11 33 | 0 45 | 23 7 | 1 13 | 23 3 | 23 0 | 24 0 | 12 32 | 1 47 |
| T 20 | 23 29 | 0 8 | 4 55 | 25 23 | 2 1 | 19 26 | 2 1 | 11 7 | 0 59 | 15 14 | 1 1 | 2 8 | 2 14 | 13 22 | 0 26 | 11 33 | 0 45 | 23 7 | 1 13 | 23 3 | 23 0 | 24 1 | 12 32 | 1 47 |
| F 21 | 23 29 | 5s37 | 4 19 | 25 20 | 2 3 | 19 5 | 1 59 | 10 49 | 0 57 | 15 17 | 1 1 | 2 8 | 2 14 | 13 21 | 0 26 | 11 32 | 0 45 | 23 8 | 1 13 | 23 3 | 23 0 | 24 2 | 12 31 | 1 47 |
| S 22 | 23 29 | 11 15 | 3 26 | 25 17 | 2 5 | 18 43 | 1 58 | 10 32 | 0 56 | 15 20 | 1 1 | 2 7 | 2 15 | 13 21 | 0 26 | 11 32 | 0 45 | 23 8 | 1 13 | 23 3 | 23 0 | 24 3 | 12 31 | 1 47 |
| S 23 | 23 28 | 16 27 | 2 18 | 25 11 | 2 7 | 18 21 | 1 56 | 10 14 | 0 55 | 15 23 | 1 1 | 2 7 | 2 15 | 13 21 | 0 26 | 11 31 | 0 45 | 23 8 | 1 13 | 23 3 | 22 59 | 24 4 | 12 30 | 1 47 |
| M24 | 23 27 | 20 45 | 1 0 | 25 4 | 2 8 | 17 58 | 1 54 | 9 57 | 0 54 | 15 26 | 1 1 | 2 6 | 2 15 | 13 20 | 0 26 | 11 31 | 0 45 | 23 9 | 1 13 | 23 3 | 22 59 | 24 5 | 12 30 | 1 47 |
| T 25 | 23 25 | 23 43 | 0s23 | 24 56 | 2 9 | 17 35 | 1 52 | 9 39 | 0 53 | 15 29 | 1 2 | 2 6 | 2 15 | 13 20 | 0 26 | 11 30 | 0 45 | 23 9 | 1 14 | 23 3 | 22 59 | 24 6 | 12 29 | 1 47 |
| W26 | 23 23 | 24 57 | 1 46 | 24 46 | 2 9 | 17 12 | 1 50 | 9 22 | 0 52 | 15 32 | 1 2 | 2 5 | 2 16 | 13 20 | 0 26 | 11 30 | 0 45 | 23 9 | 1 14 | 23 3 | 22 58 | 24 7 | 12 29 | 1 47 |
| T 27 | 23 21 | 24 19 | 3 0 | 24 34 | 2 10 | 16 48 | 1 48 | 9 4 | 0 51 | 15 35 | 1 2 | 2 5 | 2 16 | 13 19 | 0 26 | 11 29 | 0 45 | 23 9 | 1 14 | 23 3 | 22 58 | 24 8 | 12 28 | 1 47 |
| F 28 | 23 18 | 21 57 | 4 1 | 24 21 | 2 9 | 16 23 | 1 46 | 8 46 | 0 50 | 15 38 | 1 2 | 2 5 | 2 16 | 13 19 | 0 26 | 11 29 | 0 45 | 23 10 | 1 14 | 23 3 | 22 58 | 24 9 | 12 28 | 1 47 |
| S 29 | 23 14 | 18 12 | 4 45 | 24 6 | 2 8 | 15 59 | 1 44 | 8 28 | 0 49 | 15 41 | 1 2 | 2 5 | 2 17 | 13 19 | 0 26 | 11 28 | 0 45 | 23 10 | 1 14 | 23 2 | 22 58 | 24 11 | 12 28 | 1 47 |
| S 30 | 23 10 | 13 32 | 5 9 | 23 50 | 2 7 | 15 33 | 1 41 | 8 10 | 0 47 | 15 44 | 1 2 | 2 4 | 2 17 | 13 19 | 0 26 | 11 27 | 0 45 | 23 10 | 1 14 | 23 2 | 22 57 | 24 12 | 12 27 | 1 47 |
| M31 | 23s 6 | 8s20 | 5s16 | 23s32 | 2s 5 | 15s 8 | 1s39 | 7s52 | 0s46 | 15s47 | 1n 2 | 2n 4 | 2n17 | 13n18 | 0s26 | 11s27 | 0s45 | 23n10 | 1n14 | 23n 2 | 22n57 | 24n13 | 12n27 | 1s47 |

Julian Day Number = 2336828.5, Delta T = 20.44 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'22, Lahiri = 19°28'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## JANUARY 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 44 0 | 11♉ 7'22 | 4♈23 | 24♉50 | 25♒ 3 | 12♓32 | 16♏35 | 0♎ 5 | 6°R31 | 2♓ 8 | 20°R12 | 19°R 7 | 18♊ 5 | 26♊51 | 7°R48 | T 1 |
| W 2 | 6 47 56 | 12° 8'32 | 17° 9 | 26°25 | 26°13 | 13°16 | 16°45 | 0° 6 | 6♉30 | 2° 9 | 20♋11 | 19°D 7 | 18° 2 | 26°57 | 7♉47 | W 2 |
| T 3 | 6 51 53 | 13° 9'42 | 29°35 | 28° 1 | 27°22 | 14° 1 | 16°55 | 0° 6 | 6°29 | 2°11 | 20°10 | 19♊ 8 | 17°59 | 27° 4 | 7°46 | T 3 |
| F 4 | 6 55 50 | 14°10'51 | 11♉44 | 29°35 | 28°31 | 14°45 | 17° 5 | 0° 7 | 6°29 | 2°12 | 20° 9 | 19° 9 | 17°56 | 27°11 | 7°46 | F 4 |
| S 5 | 6 59 46 | 15°12'00 | 23°42 | 1♒ 8 | 29°40 | 15°30 | 17°14 | 0° 7 | 6°28 | 2°14 | 20° 7 | 19°11 | 17°53 | 27°17 | 7°45 | S 5 |
| S 6 | 7 3 43 | 16°13'09 | 5♊33 | 2°39 | 0♓49 | 16°14 | 17°24 | 0° 8 | 6°28 | 2°16 | 20° 6 | 19°13 | 17°49 | 27°24 | 7°44 | S 6 |
| M 7 | 7 7 39 | 17°14'17 | 17°20 | 4° 9 | 1°58 | 16°59 | 17°33 | 0° 8 | 6°27 | 2°18 | 20° 5 | 19°R14 | 17°46 | 27°31 | 7°44 | M 7 |
| T 8 | 7 11 36 | 18°15'24 | 29° 7 | 5°36 | 3° 7 | 17°43 | 17°43 | 0° 8 | 6°27 | 2°19 | 20° 3 | 19°13 | 17°43 | 27°37 | 7°43 | T 8 |
| W 9 | 7 15 32 | 19°16'31 | 10♋57 | 7° 1 | 4°15 | 18°27 | 17°52 | 0°R 8 | 6°27 | 2°21 | 20° 2 | 19°11 | 17°40 | 27°44 | 7°43 | W 9 |
| T 10 | 7 19 29 | 20°17'38 | 22°51 | 8°23 | 5°23 | 19°12 | 18° 1 | 0° 8 | 6°27 | 2°23 | 20° 1 | 19° 8 | 17°37 | 27°50 | 7°42 | T 10 |
| F 11 | 7 23 25 | 21°18'44 | 4♌52 | 9°41 | 6°31 | 19°56 | 18°10 | 0° 8 | 6°26 | 2°25 | 19°59 | 19° 2 | 17°34 | 27°57 | 7°42 | F 11 |
| S 12 | 7 27 22 | 22°19'49 | 17° 1 | 10°54 | 7°39 | 20°41 | 18°19 | 0° 7 | 6°26 | 2°26 | 19°58 | 18°56 | 17°30 | 28° 4 | 7°42 | S 12 |
| S 13 | 7 31 19 | 23°20'54 | 29°20 | 12° 3 | 8°46 | 21°25 | 18°28 | 0° 7 | 6°26 | 2°28 | 19°57 | 18°50 | 17°27 | 28°10 | 7°41 | S 13 |
| M14 | 7 35 15 | 24°21'59 | 11♍50 | 13° 5 | 9°54 | 22° 9 | 18°37 | 0° 6 | 6°D26 | 2°30 | 19°56 | 18°44 | 17°24 | 28°17 | 7°41 | M14 |
| T 15 | 7 39 12 | 25°23'03 | 24°33 | 14° 1 | 11° 1 | 22°53 | 18°45 | 0° 6 | 6°26 | 2°32 | 19°54 | 18°39 | 17°21 | 28°24 | 7°41 | T 15 |
| W16 | 7 43 8 | 26°24'07 | 7♎30 | 14°50 | 12° 8 | 23°38 | 18°54 | 0° 5 | 6°26 | 2°34 | 19°53 | 18°35 | 17°18 | 28°30 | 7°D41 | W16 |
| T 17 | 7 47 5 | 27°25'10 | 20°44 | 15°30 | 13°15 | 24°22 | 19° 2 | 0° 4 | 6°27 | 2°36 | 19°52 | 18°34 | 17°15 | 28°37 | 7°41 | T 17 |
| F 18 | 7 51 1 | 28°26'13 | 4♏17 | 16° 0 | 14°21 | 25° 6 | 19°10 | 0° 3 | 6°27 | 2°38 | 19°50 | 18°D34 | 17°11 | 28°44 | 7°41 | F 18 |
| S 19 | 7 54 58 | 29°27'15 | 18°11 | 16°21 | 15°27 | 25°50 | 19°18 | 0° 2 | 6°27 | 2°40 | 19°49 | 18°35 | 17° 8 | 28°50 | 7°41 | S 19 |
| S 20 | 7 58 54 | 0♒28'17 | 2♐25 | 16°R31 | 16°33 | 26°34 | 19°26 | 0° 1 | 6°27 | 2°42 | 19°48 | 18°36 | 17° 5 | 28°57 | 7°41 | S 20 |
| M21 | 8 2 51 | 1°29'19 | 16°59 | 16°30 | 17°39 | 27°19 | 19°34 | 29♍59 | 6°28 | 2°44 | 19°46 | 18°R37 | 17° 2 | 29° 4 | 7°42 | M21 |
| T 22 | 8 6 48 | 2°30'20 | 1♉49 | 16°17 | 18°45 | 28° 3 | 19°42 | 29°58 | 6°28 | 2°46 | 19°45 | 18°36 | 16°59 | 29°10 | 7°42 | T 22 |
| W23 | 8 10 44 | 3°31'20 | 16°49 | 15°53 | 19°50 | 28°47 | 19°49 | 29°57 | 6°28 | 2°48 | 19°44 | 18°33 | 16°55 | 29°17 | 7°43 | W23 |
| T 24 | 8 14 41 | 4°32'19 | 1♒51 | 15°18 | 20°55 | 29°31 | 19°57 | 29°55 | 6°29 | 2°50 | 19°43 | 18°28 | 16°52 | 29°24 | 7°43 | T 24 |
| F 25 | 8 18 37 | 5°33'17 | 16°45 | 14°33 | 21°59 | 0♈15 | 20° 4 | 29°54 | 6°30 | 2°52 | 19°41 | 18°21 | 16°49 | 29°30 | 7°44 | F 25 |
| S 26 | 8 22 34 | 6°34'14 | 1♓23 | 13°38 | 23° 4 | 0°59 | 20°11 | 29°52 | 6°30 | 2°54 | 19°40 | 18°13 | 16°46 | 29°37 | 7°44 | S 26 |
| S 27 | 8 26 30 | 7°35'10 | 15°38 | 12°37 | 24° 8 | 1°43 | 20°18 | 29°50 | 6°31 | 2°56 | 19°39 | 18° 5 | 16°43 | 29°44 | 7°45 | S 27 |
| M28 | 8 30 27 | 8°36'05 | 29°25 | 11°29 | 25°11 | 2°27 | 20°25 | 29°48 | 6°32 | 2°58 | 19°38 | 17°58 | 16°40 | 29°50 | 7°46 | M28 |
| T 29 | 8 34 23 | 9°36'58 | 12♈44 | 10°17 | 26°15 | 3°11 | 20°32 | 29°46 | 6°32 | 3° 0 | 19°36 | 17°52 | 16°36 | 29°57 | 7°46 | T 29 |
| W30 | 8 38 20 | 10°37'50 | 25°36 | 9° 4 | 27°18 | 3°55 | 20°38 | 29°44 | 6°33 | 3° 3 | 19°35 | 17°49 | 16°33 | 0♋ 3 | 7°47 | W30 |
| T 31 | 8 42 17 | 11♒38'40 | 8♉ 5 | 7♒51 | 28♓21 | 4♈39 | 20♏45 | 29♍41 | 6♉34 | 3♓ 5 | 19♋34 | 17°D48 | 16♊30 | 0♋10 | 7♉48 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 1 | 2s55 | 5s 5 | 23s12 | 2s 2 | 14s42 | 1s36 | 7s34 | 0s45 | 15s50 | 1n 2 | 2n 4 | 2n17 | 13n18 | 0s26 | 11s26 | 0s45 | 23n11 | 1n14 | 23n 2 | 22n57 | 24n14 | 12n27 | 1s47 |
| W 2 | 22 56 | 2n27 | 4 39 | 22 51 | 1 59 | 14 16 | 1 33 | 7 16 | 0 44 | 15 53 | 1 2 | 2 4 | 2 18 | 13 18 | 0 26 | 11 26 | 0 45 | 23 11 | 1 14 | 23 2 | 22 56 | 24 15 | 12 26 | 1 47 |
| T 3 | 22 50 | 7 35 | 4 1 | 22 28 | 1 55 | 13 49 | 1 30 | 6 58 | 0 43 | 15 55 | 1 2 | 2 4 | 2 18 | 13 18 | 0 26 | 11 25 | 0 45 | 23 11 | 1 14 | 23 2 | 22 56 | 24 16 | 12 26 | 1 47 |
| F 4 | 22 43 | 12 20 | 3 12 | 22 4 | 1 50 | 13 22 | 1 27 | 6 40 | 0 42 | 15 58 | 1 2 | 2 4 | 2 18 | 13 18 | 0 26 | 11 25 | 0 45 | 23 11 | 1 14 | 23 2 | 22 56 | 24 17 | 12 26 | 1 47 |
| S 5 | 22 37 | 16 32 | 2 16 | 21 39 | 1 45 | 12 55 | 1 24 | 6 21 | 0 41 | 16 1 | 1 2 | 2 4 | 2 19 | 13 18 | 0 26 | 11 24 | 0 45 | 23 12 | 1 14 | 23 2 | 22 56 | 24 18 | 12 26 | 1 47 |
| S 6 | 22 30 | 20 2 | 1 15 | 21 12 | 1 39 | 12 28 | 1 21 | 6 3 | 0 40 | 16 3 | 1 3 | 2 4 | 2 19 | 13 18 | 0 26 | 11 23 | 0 45 | 23 12 | 1 14 | 23 2 | 22 55 | 24 19 | 12 25 | 1 47 |
| M 7 | 22 22 | 22 42 | 0 10 | 20 45 | 1 32 | 12 0 | 1 18 | 5 45 | 0 39 | 16 6 | 1 3 | 2 5 | 2 19 | 13 17 | 0 26 | 11 23 | 0 45 | 23 12 | 1 14 | 23 3 | 22 55 | 24 20 | 12 25 | 1 47 |
| T 8 | 22 14 | 24 23 | 0n54 | 20 16 | 1 24 | 11 32 | 1 14 | 5 27 | 0 38 | 16 8 | 1 3 | 2 5 | 2 20 | 13 17 | 0 26 | 11 22 | 0 45 | 23 12 | 1 15 | 23 3 | 22 55 | 24 21 | 12 25 | 1 47 |
| W 9 | 22 6 | 24 58 | 1 56 | 19 46 | 1 16 | 11 4 | 1 11 | 5 8 | 0 37 | 16 11 | 1 3 | 2 5 | 2 20 | 13 17 | 0 26 | 11 21 | 0 45 | 23 13 | 1 15 | 23 2 | 22 54 | 24 22 | 12 25 | 1 47 |
| T 10 | 21 57 | 24 24 | 2 54 | 19 16 | 1 6 | 10 35 | 1 7 | 4 50 | 0 36 | 16 13 | 1 3 | 2 5 | 2 20 | 13 17 | 0 26 | 11 21 | 0 45 | 23 13 | 1 15 | 23 2 | 22 54 | 24 23 | 12 25 | 1 47 |
| F 11 | 21 47 | 22 42 | 3 44 | 18 45 | 0 56 | 10 7 | 1 3 | 4 31 | 0 35 | 16 16 | 1 3 | 2 6 | 2 20 | 13 17 | 0 26 | 11 20 | 0 45 | 23 13 | 1 15 | 23 2 | 22 54 | 24 24 | 12 25 | 1 47 |
| S 12 | 21 38 | 19 58 | 4 25 | 18 14 | 0 44 | 9 38 | 0 59 | 4 13 | 0 34 | 16 18 | 1 3 | 2 6 | 2 21 | 13 17 | 0 26 | 11 19 | 0 45 | 23 14 | 1 15 | 23 1 | 22 54 | 24 25 | 12 25 | 1 47 |
| S 13 | 21 27 | 16 18 | 4 54 | 17 43 | 0 32 | 9 9 | 0 55 | 3 55 | 0 33 | 16 20 | 1 3 | 2 7 | 2 21 | 13 17 | 0 26 | 11 19 | 0 45 | 23 14 | 1 15 | 23 1 | 22 53 | 24 26 | 12 25 | 1 47 |
| M14 | 21 17 | 11 53 | 5 9 | 17 12 | 0 18 | 8 40 | 0 51 | 3 36 | 0 32 | 16 23 | 1 3 | 2 7 | 2 21 | 13 17 | 0 26 | 11 18 | 0 45 | 23 14 | 1 15 | 23 0 | 22 53 | 24 27 | 12 25 | 1 47 |
| T 15 | 21 6 | 6 54 | 5 10 | 16 43 | 0 4 | 8 10 | 0 47 | 3 18 | 0 31 | 16 25 | 1 4 | 2 7 | 2 21 | 13 17 | 0 26 | 11 17 | 0 45 | 23 14 | 1 15 | 23 0 | 22 53 | 24 28 | 12 25 | 1 47 |
| W16 | 20 55 | 1 32 | 4 55 | 16 14 | 0n11 | 7 41 | 0 42 | 2 59 | 0 30 | 16 27 | 1 4 | 2 8 | 2 22 | 13 17 | 0 26 | 11 17 | 0 45 | 23 15 | 1 15 | 22 59 | 22 52 | 24 29 | 12 25 | 1 47 |
| T 17 | 20 43 | 4s 2 | 4 24 | 15 47 | 0 27 | 7 11 | 0 38 | 2 41 | 0 29 | 16 29 | 1 4 | 2 9 | 2 22 | 13 17 | 0 25 | 11 16 | 0 45 | 23 15 | 1 15 | 22 59 | 22 52 | 24 29 | 12 25 | 1 47 |
| F 18 | 20 31 | 9 33 | 3 38 | 15 22 | 0 44 | 6 41 | 0 33 | 2 22 | 0 28 | 16 31 | 1 4 | 2 9 | 2 22 | 13 17 | 0 25 | 11 15 | 0 45 | 23 15 | 1 15 | 22 59 | 22 52 | 24 30 | 12 25 | 1 47 |
| S 19 | 20 18 | 14 45 | 2 38 | 14 59 | 1 2 | 6 11 | 0 29 | 2 4 | 0 27 | 16 33 | 1 4 | 2 10 | 2 23 | 13 18 | 0 25 | 11 15 | 0 45 | 23 15 | 1 15 | 22 59 | 22 51 | 24 31 | 12 25 | 1 47 |
| S 20 | 20 5 | 19 16 | 1 27 | 14 39 | 1 19 | 5 41 | 0 24 | 1 45 | 0 26 | 16 35 | 1 4 | 2 11 | 2 23 | 13 18 | 0 25 | 11 14 | 0 45 | 23 16 | 1 15 | 22 59 | 22 51 | 24 32 | 12 25 | 1 47 |
| M21 | 19 52 | 22 42 | 0 9 | 14 22 | 1 37 | 5 11 | 0 19 | 1 27 | 0 25 | 16 37 | 1 4 | 2 11 | 2 23 | 13 18 | 0 25 | 11 13 | 0 45 | 23 16 | 1 15 | 22 59 | 22 51 | 24 33 | 12 25 | 1 47 |
| T 22 | 19 38 | 24 39 | 1s11 | 14 9 | 1 55 | 4 41 | 0 14 | 1 8 | 0 24 | 16 39 | 1 4 | 2 12 | 2 23 | 13 18 | 0 25 | 11 12 | 0 45 | 23 16 | 1 15 | 22 59 | 22 51 | 24 34 | 12 25 | 1 47 |
| W23 | 19 24 | 24 51 | 2 27 | 13 59 | 2 13 | 4 10 | 0 9 | 0 50 | 0 23 | 16 41 | 1 4 | 2 13 | 2 24 | 13 18 | 0 25 | 11 12 | 0 45 | 23 16 | 1 15 | 22 59 | 22 50 | 24 35 | 12 25 | 1 47 |
| T 24 | 19 10 | 23 14 | 3 32 | 13 54 | 2 30 | 3 40 | 0 4 | 0 31 | 0 22 | 16 43 | 1 5 | 2 14 | 2 24 | 13 18 | 0 25 | 11 11 | 0 45 | 23 17 | 1 16 | 22 59 | 22 50 | 24 36 | 12 25 | 1 47 |
| F 25 | 18 55 | 20 1 | 4 23 | 13 52 | 2 45 | 3 10 | 0n 1 | 0 13 | 0 21 | 16 45 | 1 5 | 2 15 | 2 24 | 13 19 | 0 25 | 11 10 | 0 45 | 23 17 | 1 16 | 22 58 | 22 50 | 24 37 | 12 26 | 1 47 |
| S 26 | 18 40 | 15 35 | 4 55 | 13 53 | 3 0 | 2 39 | 0 7 | 0n 5 | 0 20 | 16 47 | 1 5 | 2 16 | 2 25 | 13 19 | 0 25 | 11 9 | 0 45 | 23 17 | 1 16 | 22 57 | 22 49 | 24 38 | 12 26 | 1 47 |
| S 27 | 18 24 | 10 24 | 5 7 | 13 59 | 3 12 | 2 9 | 0 12 | 0 24 | 0 19 | 16 49 | 1 5 | 2 17 | 2 25 | 13 19 | 0 25 | 11 9 | 0 45 | 23 17 | 1 16 | 22 57 | 22 49 | 24 39 | 12 26 | 1 47 |
| M28 | 18 9 | 4 51 | 5 2 | 14 7 | 3 23 | 1 38 | 0 18 | 0 42 | 0 18 | 16 50 | 1 5 | 2 18 | 2 25 | 13 19 | 0 25 | 11 8 | 0 45 | 23 17 | 1 16 | 22 56 | 22 49 | 24 39 | 12 26 | 1 47 |
| T 29 | 17 52 | 0n45 | 4 39 | 14 19 | 3 31 | 1 8 | 0 24 | 1 0 | 0 17 | 16 52 | 1 5 | 2 19 | 2 25 | 13 20 | 0 25 | 11 7 | 0 45 | 23 18 | 1 16 | 22 56 | 22 48 | 24 40 | 12 27 | 1 47 |
| W30 | 17 36 | 6 8 | 4 4 | 14 32 | 3 36 | 0 38 | 0 29 | 1 19 | 0 16 | 16 53 | 1 5 | 2 20 | 2 26 | 13 20 | 0 25 | 11 6 | 0 45 | 23 18 | 1 16 | 22 55 | 22 48 | 24 41 | 12 27 | 1 47 |
| T 31 | 17s19 | 11n 7 | 3s17 | 14s48 | 3n40 | 0s 7 | 0n35 | 1n37 | 0s15 | 16s55 | 1n 5 | 2n21 | 2n26 | 13n20 | 0s25 | 11s 6 | 0s45 | 23n18 | 1n16 | 22n55 | 22n48 | 24n42 | 12n27 | 1s47 |

Julian Day Number = 2336859.5, Delta T = 20.39 sec
Ecliptic obliquity = 23°28'50, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'26, Lahiri = 19°28'26Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## FEBRUARY 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 46 13 | 12♒39'29 | 20♉15 | 6°R41 | 29♓23 | 5♈23 | 20♏51 | 29°R39 | 6♉35 | 3♓ 7 | 19°R33 | 17♊48 | 16♊27 | 0♋17 | 7♉49 | F 1 |
| S 2 | 8 50 10 | 13°40'16 | 2♊12 | 5♒34 | 0♈25 | 6° 6 | 20°57 | 29♏36 | 6°36 | 3° 9 | 19♋32 | 17°49 | 16°24 | 0°23 | 7°50 | S 2 |
| S 3 | 8 54 6 | 14°41'02 | 14° 1 | 4°33 | 1°26 | 6°50 | 21° 3 | 29°34 | 6°37 | 3°11 | 19°30 | 17°R50 | 16°21 | 0°30 | 7°51 | S 3 |
| M 4 | 8 58 3 | 15°41'47 | 25°47 | 3°39 | 2°28 | 7°34 | 21° 9 | 29°31 | 6°38 | 3°13 | 19°29 | 17°49 | 16°17 | 0°37 | 7°53 | M 4 |
| T 5 | 9 1 59 | 16°42'30 | 7♋35 | 2°51 | 3°28 | 8°18 | 21°14 | 29°28 | 6°39 | 3°16 | 19°28 | 17°47 | 16°14 | 0°43 | 7°54 | T 5 |
| W 6 | 9 5 56 | 17°43'11 | 19°29 | 2°12 | 4°28 | 9° 1 | 21°20 | 29°26 | 6°40 | 3°18 | 19°27 | 17°42 | 16°11 | 0°50 | 7°55 | W 6 |
| T 7 | 9 9 52 | 18°43'51 | 1♌31 | 1°41 | 5°28 | 9°45 | 21°25 | 29°23 | 6°42 | 3°20 | 19°26 | 17°35 | 16° 8 | 0°57 | 7°56 | T 7 |
| F 8 | 9 13 49 | 19°44'29 | 13°43 | 1°18 | 6°28 | 10°29 | 21°30 | 29°20 | 6°43 | 3°22 | 19°25 | 17°25 | 16° 5 | 1° 3 | 7°58 | F 8 |
| S 9 | 9 17 46 | 20°45'06 | 26° 7 | 1° 2 | 7°27 | 11°12 | 21°35 | 29°17 | 6°44 | 3°24 | 19°24 | 17°14 | 16° 1 | 1°10 | 7°59 | S 9 |
| S 10 | 9 21 42 | 21°45'41 | 8♍43 | 0°55 | 8°25 | 11°56 | 21°40 | 29°13 | 6°46 | 3°27 | 19°23 | 17° 2 | 15°58 | 1°17 | 8° 1 | S 10 |
| M11 | 9 25 39 | 22°46'15 | 21°31 | 0°D54 | 9°23 | 12°39 | 21°45 | 29°10 | 6°47 | 3°29 | 19°22 | 16°50 | 15°55 | 1°23 | 8° 3 | M11 |
| T 12 | 9 29 35 | 23°46'48 | 4♎31 | 1° 1 | 10°20 | 13°23 | 21°49 | 29° 7 | 6°48 | 3°31 | 19°21 | 16°40 | 15°52 | 1°30 | 8° 4 | T 12 |
| W13 | 9 33 32 | 24°47'19 | 17°42 | 1°14 | 11°17 | 14° 6 | 21°53 | 29° 3 | 6°50 | 3°33 | 19°19 | 16°32 | 15°49 | 1°37 | 8° 6 | W13 |
| T 14 | 9 37 28 | 25°47'49 | 1♏ 5 | 1°33 | 12°13 | 14°50 | 21°58 | 29° 0 | 6°52 | 3°36 | 19°18 | 16°27 | 15°46 | 1°43 | 8° 8 | T 14 |
| F 15 | 9 41 25 | 26°48'17 | 14°40 | 1°57 | 13° 9 | 15°33 | 22° 2 | 28°56 | 6°53 | 3°38 | 19°17 | 16°24 | 15°42 | 1°50 | 8°10 | F 15 |
| S 16 | 9 45 21 | 27°48'45 | 28°28 | 2°27 | 14° 4 | 16°16 | 22° 5 | 28°53 | 6°55 | 3°40 | 19°16 | 16°D24 | 15°39 | 1°56 | 8°11 | S 16 |
| S 17 | 9 49 18 | 28°49'11 | 12♐29 | 3° 1 | 14°58 | 17° 0 | 22° 9 | 28°49 | 6°56 | 3°43 | 19°15 | 16°R24 | 15°36 | 2° 3 | 8°13 | S 17 |
| M18 | 9 53 15 | 29°49'35 | 26°44 | 3°40 | 15°52 | 17°43 | 22°13 | 28°45 | 6°58 | 3°45 | 19°15 | 16°24 | 15°33 | 2°10 | 8°15 | M18 |
| T 19 | 9 57 11 | 0♓49'59 | 11♑10 | 4°24 | 16°45 | 18°26 | 22°16 | 28°41 | 7° 0 | 3°47 | 19°14 | 16°21 | 15°30 | 2°16 | 8°17 | T 19 |
| W20 | 10 1 8 | 1°50'21 | 25°46 | 5°10 | 17°37 | 19° 9 | 22°19 | 28°38 | 7° 2 | 3°49 | 19°13 | 16°17 | 15°27 | 2°23 | 8°20 | W20 |
| T 21 | 10 5 4 | 2°50'41 | 10♒24 | 6° 1 | 18°29 | 19°52 | 22°22 | 28°34 | 7° 4 | 3°52 | 19°12 | 16° 9 | 15°23 | 2°30 | 8°22 | T 21 |
| F 22 | 10 9 1 | 3°51'00 | 24°59 | 6°55 | 19°20 | 20°36 | 22°25 | 28°30 | 7° 6 | 3°54 | 19°11 | 15°59 | 15°20 | 2°36 | 8°24 | F 22 |
| S 23 | 10 12 57 | 4°51'17 | 9♓24 | 7°51 | 20°10 | 21°19 | 22°27 | 28°26 | 7° 8 | 3°56 | 19°10 | 15°47 | 15°17 | 2°43 | 8°26 | S 23 |
| S 24 | 10 16 54 | 5°51'32 | 23°31 | 8°51 | 20°59 | 22° 2 | 22°30 | 28°21 | 7°10 | 3°58 | 19° 9 | 15°35 | 15°14 | 2°50 | 8°29 | S 24 |
| M25 | 10 20 50 | 6°51'45 | 7♈16 | 9°53 | 21°48 | 22°45 | 22°32 | 28°17 | 7°12 | 4° 1 | 19° 8 | 15°23 | 15°11 | 2°56 | 8°31 | M25 |
| T 26 | 10 24 47 | 7°51'56 | 20°35 | 10°57 | 22°35 | 23°28 | 22°34 | 28°13 | 7°14 | 4° 3 | 19° 8 | 15°14 | 15° 7 | 3° 3 | 8°33 | T 26 |
| W27 | 10 28 44 | 8°52'05 | 3♉30 | 12° 4 | 23°22 | 24°11 | 22°36 | 28° 9 | 7°16 | 4° 5 | 19° 7 | 15° 7 | 15° 4 | 3°10 | 8°36 | W27 |
| T 28 | 10 32 40 | 9♓52'12 | 16♉ 2 | 13♒13 | 24♈ 8 | 24♈54 | 22♏37 | 28♏ 4 | 7♉18 | 4♓ 8 | 19♋ 6 | 15♊ 3 | 15♊ 1 | 3♋16 | 8♉38 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s 2 | 15n33 | 2s23 | 15s 5 | 3n41 | 0n23 | 0n41 | 1n55 | 0s14 | 16s57 | 1n 6 | 2n22 | 2n26 | 13n21 | 0s25 | 11s 5 | 0s45 | 23n18 | 1n16 | 22n55 | 22n47 | 24n43 | 12n28 | 1s47 |
| S 2 | 16 45 | 19 17 | 1 23 | 15 22 | 3 39 | 0 53 | 0 47 | 2 14 | 0 13 | 16 58 | 1 6 | 2 24 | 2 26 | 13 21 | 0 25 | 11 4 | 0 45 | 23 19 | 1 16 | 22 55 | 22 47 | 24 44 | 12 28 | 1 47 |
| S 3 | 16 27 | 22 11 | 0 20 | 15 40 | 3 36 | 1 23 | 0 53 | 2 32 | 0 12 | 16 59 | 1 6 | 2 25 | 2 27 | 13 21 | 0 25 | 11 3 | 0 45 | 23 19 | 1 16 | 22 55 | 22 47 | 24 44 | 12 28 | 1 47 |
| M 4 | 16 10 | 24 7 | 0n43 | 15 58 | 3 30 | 1 53 | 1 0 | 2 50 | 0 11 | 17 1 | 1 6 | 2 26 | 2 27 | 13 22 | 0 25 | 11 2 | 0 45 | 23 19 | 1 16 | 22 55 | 22 46 | 24 45 | 12 29 | 1 47 |
| T 5 | 15 51 | 24 59 | 1 44 | 16 16 | 3 23 | 2 23 | 1 6 | 3 8 | 0 11 | 17 2 | 1 6 | 2 27 | 2 27 | 13 22 | 0 25 | 11 2 | 0 45 | 23 19 | 1 16 | 22 55 | 22 46 | 24 46 | 12 29 | 1 47 |
| W 6 | 15 33 | 24 43 | 2 41 | 16 33 | 3 14 | 2 53 | 1 12 | 3 26 | 0 10 | 17 3 | 1 6 | 2 29 | 2 27 | 13 22 | 0 25 | 11 1 | 0 45 | 23 20 | 1 16 | 22 55 | 22 46 | 24 47 | 12 30 | 1 47 |
| T 7 | 15 14 | 23 17 | 3 31 | 16 49 | 3 5 | 3 23 | 1 19 | 3 44 | 0 9 | 17 5 | 1 6 | 2 30 | 2 27 | 13 23 | 0 25 | 11 0 | 0 45 | 23 20 | 1 16 | 22 54 | 22 45 | 24 48 | 12 30 | 1 46 |
| F 8 | 14 55 | 20 46 | 4 13 | 17 4 | 2 54 | 3 53 | 1 25 | 4 2 | 0 8 | 17 6 | 1 7 | 2 32 | 2 28 | 13 23 | 0 25 | 10 59 | 0 45 | 23 20 | 1 16 | 22 53 | 22 45 | 24 49 | 12 31 | 1 46 |
| S 9 | 14 36 | 17 16 | 4 43 | 17 19 | 2 43 | 4 22 | 1 32 | 4 20 | 0 7 | 17 7 | 1 7 | 2 33 | 2 28 | 13 24 | 0 25 | 10 58 | 0 45 | 23 20 | 1 16 | 22 52 | 22 45 | 24 49 | 12 31 | 1 46 |
| S 10 | 14 17 | 12 56 | 5 0 | 17 32 | 2 31 | 4 51 | 1 39 | 4 38 | 0 6 | 17 8 | 1 7 | 2 34 | 2 28 | 13 24 | 0 25 | 10 58 | 0 45 | 23 20 | 1 16 | 22 51 | 22 44 | 24 50 | 12 32 | 1 46 |
| M11 | 13 57 | 7 59 | 5 2 | 17 44 | 2 19 | 5 20 | 1 46 | 4 56 | 0 5 | 17 9 | 1 7 | 2 36 | 2 28 | 13 25 | 0 25 | 10 57 | 0 45 | 23 21 | 1 17 | 22 50 | 22 44 | 24 51 | 12 32 | 1 46 |
| T 12 | 13 37 | 2 37 | 4 48 | 17 55 | 2 7 | 5 49 | 1 52 | 5 13 | 0 5 | 17 10 | 1 7 | 2 37 | 2 29 | 13 25 | 0 25 | 10 56 | 0 45 | 23 21 | 1 17 | 22 49 | 22 44 | 24 52 | 12 33 | 1 46 |
| W13 | 13 17 | 2s58 | 4 20 | 18 4 | 1 54 | 6 18 | 1 59 | 5 31 | 0 4 | 17 11 | 1 7 | 2 39 | 2 29 | 13 26 | 0 25 | 10 55 | 0 45 | 23 21 | 1 17 | 22 48 | 22 43 | 24 53 | 12 33 | 1 46 |
| T 14 | 12 57 | 8 29 | 3 36 | 18 12 | 1 42 | 6 47 | 2 6 | 5 49 | 0 3 | 17 12 | 1 7 | 2 41 | 2 29 | 13 26 | 0 25 | 10 54 | 0 45 | 23 21 | 1 17 | 22 47 | 22 43 | 24 53 | 12 34 | 1 46 |
| F 15 | 12 36 | 13 43 | 2 40 | 18 19 | 1 29 | 7 15 | 2 14 | 6 6 | 0 2 | 17 13 | 1 8 | 2 42 | 2 29 | 13 27 | 0 25 | 10 54 | 0 45 | 23 21 | 1 17 | 22 47 | 22 43 | 24 54 | 12 34 | 1 46 |
| S 16 | 12 15 | 18 20 | 1 34 | 18 24 | 1 17 | 7 43 | 2 21 | 6 24 | 0 1 | 17 14 | 1 8 | 2 44 | 2 29 | 13 27 | 0 25 | 10 53 | 0 45 | 23 22 | 1 17 | 22 47 | 22 42 | 24 55 | 12 35 | 1 46 |
| S 17 | 11 54 | 21 59 | 0 21 | 18 28 | 1 5 | 8 11 | 2 28 | 6 41 | 0 0 | 17 15 | 1 8 | 2 45 | 2 30 | 13 28 | 0 25 | 10 52 | 0 45 | 23 22 | 1 17 | 22 47 | 22 42 | 24 56 | 12 36 | 1 46 |
| M18 | 11 33 | 24 21 | 0s55 | 18 31 | 0 53 | 8 38 | 2 35 | 6 58 | 0n 0 | 17 15 | 1 8 | 2 47 | 2 30 | 13 29 | 0 25 | 10 51 | 0 45 | 23 22 | 1 17 | 22 47 | 22 42 | 24 56 | 12 36 | 1 46 |
| T 19 | 11 12 | 25 8 | 2 7 | 18 32 | 0 41 | 9 5 | 2 42 | 7 15 | 0 1 | 17 16 | 1 8 | 2 49 | 2 30 | 13 29 | 0 25 | 10 50 | 0 45 | 23 22 | 1 17 | 22 47 | 22 41 | 24 57 | 12 37 | 1 46 |
| W20 | 10 50 | 24 11 | 3 12 | 18 32 | 0 30 | 9 32 | 2 50 | 7 33 | 0 2 | 17 17 | 1 8 | 2 51 | 2 30 | 13 30 | 0 25 | 10 49 | 0 45 | 23 22 | 1 17 | 22 46 | 22 41 | 24 58 | 12 38 | 1 46 |
| T 21 | 10 29 | 21 35 | 4 5 | 18 30 | 0 19 | 9 59 | 2 57 | 7 50 | 0 3 | 17 17 | 1 8 | 2 52 | 2 30 | 13 31 | 0 24 | 10 49 | 0 45 | 23 22 | 1 17 | 22 46 | 22 41 | 24 58 | 12 38 | 1 46 |
| F 22 | 10 7 | 17 37 | 4 41 | 18 27 | 0 8 | 10 26 | 3 5 | 8 7 | 0 4 | 17 18 | 1 9 | 2 54 | 2 30 | 13 31 | 0 24 | 10 48 | 0 45 | 23 23 | 1 17 | 22 45 | 22 40 | 24 59 | 12 39 | 1 46 |
| S 23 | 9 45 | 12 40 | 4 59 | 18 23 | 0s 2 | 10 52 | 3 12 | 8 24 | 0 4 | 17 18 | 1 9 | 2 56 | 2 31 | 13 32 | 0 24 | 10 47 | 0 45 | 23 23 | 1 17 | 22 43 | 22 40 | 25 0 | 12 40 | 1 46 |
| S 24 | 9 23 | 7 8 | 4 58 | 18 17 | 0 12 | 11 17 | 3 20 | 8 41 | 0 5 | 17 19 | 1 9 | 2 58 | 2 31 | 13 33 | 0 24 | 10 46 | 0 45 | 23 23 | 1 17 | 22 42 | 22 40 | 25 1 | 12 41 | 1 46 |
| M25 | 9 0 | 1 24 | 4 40 | 18 10 | 0 22 | 11 43 | 3 27 | 8 57 | 0 6 | 17 19 | 1 9 | 2 59 | 2 31 | 13 33 | 0 24 | 10 45 | 0 45 | 23 23 | 1 17 | 22 41 | 22 39 | 25 1 | 12 41 | 1 46 |
| T 26 | 8 38 | 4n15 | 4 6 | 18 1 | 0 32 | 12 8 | 3 35 | 9 14 | 0 7 | 17 20 | 1 9 | 3 1 | 2 31 | 13 34 | 0 24 | 10 45 | 0 45 | 23 23 | 1 17 | 22 40 | 22 39 | 25 2 | 12 42 | 1 46 |
| W27 | 8 16 | 9 33 | 3 21 | 17 51 | 0 41 | 12 32 | 3 43 | 9 31 | 0 8 | 17 20 | 1 9 | 3 3 | 2 31 | 13 35 | 0 24 | 10 44 | 0 45 | 23 23 | 1 17 | 22 39 | 22 39 | 25 3 | 12 43 | 1 46 |
| T 28 | 7s53 | 14n19 | 2s27 | 17s40 | 0s49 | 12n56 | 3n50 | 9n47 | 0n 8 | 17s20 | 1n 9 | 3n 5 | 2n31 | 13n35 | 0s24 | 10s43 | 0s45 | 23n24 | 1n17 | 22n38 | 22n38 | 25n 3 | 12n44 | 1s46 |

Julian Day Number = 2336890.5, Delta T = 20.35 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'30, Lahiri = 19°28'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## MARCH 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 36 37 | 10♓52'17 | 28♉15 | 14♒24 | 24♈52 | 25♈36 | 22♏39 | 28°R 0 | 7♉20 | 4♓10 | 19°R 5 | 15°R 1 | 14♊58 | 3♋23 | 8♉41 | F 1 |
| S 2 | 10 40 33 | 11°52'20 | 10♊14 | 15°37 | 25°36 | 26°19 | 22°40 | 27♍56 | 7°23 | 4°12 | 19♋ 5 | 15♊ 1 | 14°55 | 3°30 | 8°44 | S 2 |
| S 3 | 10 44 30 | 12°52'20 | 22° 4 | 16°52 | 26°19 | 27° 2 | 22°41 | 27°51 | 7°25 | 4°14 | 19° 4 | 15° 1 | 14°52 | 3°36 | 8°46 | S 3 |
| M 4 | 10 48 26 | 13°52'19 | 3♋52 | 18° 8 | 27° 0 | 27°45 | 22°42 | 27°47 | 7°27 | 4°17 | 19° 3 | 15° 0 | 14°48 | 3°43 | 8°49 | M 4 |
| T 5 | 10 52 23 | 14°52'15 | 15°42 | 19°27 | 27°41 | 28°28 | 22°43 | 27°42 | 7°30 | 4°19 | 19° 2 | 14°57 | 14°45 | 3°50 | 8°52 | T 5 |
| W 6 | 10 56 19 | 15°52'09 | 27°39 | 20°46 | 28°20 | 29°10 | 22°43 | 27°38 | 7°32 | 4°21 | 19° 2 | 14°52 | 14°42 | 3°56 | 8°55 | W 6 |
| T 7 | 11 0 16 | 16°52'01 | 9♌47 | 22° 8 | 28°58 | 29°53 | 22°44 | 27°33 | 7°34 | 4°23 | 19° 1 | 14°44 | 14°39 | 4° 3 | 8°58 | T 7 |
| F 8 | 11 4 13 | 17°51'51 | 22° 9 | 23°31 | 29°34 | 0♉35 | 22°R44 | 27°28 | 7°37 | 4°26 | 19° 1 | 14°33 | 14°36 | 4°10 | 9° 0 | F 8 |
| S 9 | 11 8 9 | 18°51'39 | 4♍47 | 24°55 | 0♉10 | 1°18 | 22°44 | 27°24 | 7°39 | 4°28 | 19° 0 | 14°21 | 14°33 | 4°16 | 9° 3 | S 9 |
| S 10 | 11 12 6 | 19°51'25 | 17°42 | 26°21 | 0°44 | 2° 0 | 22°43 | 27°19 | 7°42 | 4°30 | 19° 0 | 14° 7 | 14°29 | 4°23 | 9° 6 | S 10 |
| M11 | 11 16 2 | 20°51'08 | 0♎51 | 27°48 | 1°16 | 2°43 | 22°43 | 27°15 | 7°45 | 4°32 | 18°59 | 13°54 | 14°26 | 4°29 | 9° 9 | M11 |
| T 12 | 11 19 59 | 21°50'50 | 14°14 | 29°16 | 1°47 | 3°25 | 22°42 | 27°10 | 7°47 | 4°34 | 18°58 | 13°43 | 14°23 | 4°36 | 9°12 | T 12 |
| W13 | 11 23 55 | 22°50'30 | 27°48 | 0♓46 | 2°16 | 4° 8 | 22°42 | 27° 5 | 7°50 | 4°37 | 18°58 | 13°34 | 14°20 | 4°43 | 9°16 | W13 |
| T 14 | 11 27 52 | 23°50'08 | 11♏31 | 2°18 | 2°44 | 4°50 | 22°41 | 27° 0 | 7°53 | 4°39 | 18°58 | 13°28 | 14°17 | 4°49 | 9°19 | T 14 |
| F 15 | 11 31 48 | 24°49'44 | 25°22 | 3°50 | 3°10 | 5°32 | 22°40 | 26°56 | 7°55 | 4°41 | 18°57 | 13°25 | 14°13 | 4°56 | 9°22 | F 15 |
| S 16 | 11 35 45 | 25°49'18 | 9♐18 | 5°24 | 3°35 | 6°15 | 22°38 | 26°51 | 7°58 | 4°43 | 18°57 | 13°D24 | 14°10 | 5° 3 | 9°25 | S 16 |
| S 17 | 11 39 42 | 26°48'51 | 23°20 | 6°59 | 3°57 | 6°57 | 22°37 | 26°46 | 8° 1 | 4°45 | 18°56 | 13°R24 | 14° 7 | 5° 9 | 9°28 | S 17 |
| M18 | 11 43 38 | 27°48'22 | 7♑27 | 8°36 | 4°18 | 7°39 | 22°35 | 26°42 | 8° 4 | 4°47 | 18°56 | 13°23 | 14° 4 | 5°16 | 9°32 | M18 |
| T 19 | 11 47 35 | 28°47'52 | 21°37 | 10°13 | 4°37 | 8°21 | 22°33 | 26°37 | 8° 6 | 4°50 | 18°56 | 13°22 | 14° 1 | 5°23 | 9°35 | T 19 |
| W20 | 11 51 31 | 29°47'19 | 5♒49 | 11°53 | 4°53 | 9° 3 | 22°31 | 26°32 | 8° 9 | 4°52 | 18°55 | 13°17 | 13°58 | 5°29 | 9°39 | W20 |
| T 21 | 11 55 28 | 0♈46'45 | 20° 2 | 13°33 | 5° 8 | 9°45 | 22°29 | 26°27 | 8°12 | 4°54 | 18°55 | 13°11 | 13°54 | 5°36 | 9°42 | T 21 |
| F 22 | 11 59 24 | 1°46'09 | 4♓10 | 15°15 | 5°21 | 10°27 | 22°26 | 26°23 | 8°15 | 4°56 | 18°55 | 13° 1 | 13°51 | 5°43 | 9°45 | F 22 |
| S 23 | 12 3 21 | 2°45'31 | 18° 9 | 16°58 | 5°32 | 11° 9 | 22°24 | 26°18 | 8°18 | 4°58 | 18°55 | 12°50 | 13°48 | 5°49 | 9°49 | S 23 |
| S 24 | 12 7 17 | 3°44'51 | 1♈54 | 18°42 | 5°40 | 11°51 | 22°21 | 26°13 | 8°21 | 5° 0 | 18°54 | 12°39 | 13°45 | 5°56 | 9°52 | S 24 |
| M25 | 12 11 14 | 4°44'08 | 15°23 | 20°28 | 5°46 | 12°33 | 22°18 | 26° 9 | 8°24 | 5° 2 | 18°54 | 12°28 | 13°42 | 6° 3 | 9°56 | M25 |
| T 26 | 12 15 10 | 5°43'24 | 28°32 | 22°15 | 5°50 | 13°15 | 22°15 | 26° 4 | 8°27 | 5° 4 | 18°54 | 12°19 | 13°38 | 6° 9 | 10° 0 | T 26 |
| W27 | 12 19 7 | 6°42'38 | 11♉20 | 24° 4 | 5°R51 | 13°57 | 22°11 | 26° 0 | 8°30 | 5° 6 | 18°54 | 12°12 | 13°35 | 6°16 | 10° 3 | W27 |
| T 28 | 12 23 4 | 7°41'49 | 23°50 | 25°54 | 5°50 | 14°39 | 22° 8 | 25°55 | 8°33 | 5° 8 | 18°54 | 12° 8 | 13°32 | 6°23 | 10° 7 | T 28 |
| F 29 | 12 27 0 | 8°40'58 | 6♊ 2 | 27°45 | 5°47 | 15°20 | 22° 4 | 25°50 | 8°36 | 5°10 | 18°54 | 12° 6 | 13°29 | 6°29 | 10°11 | F 29 |
| S 30 | 12 30 57 | 9°40'05 | 18° 2 | 29°38 | 5°41 | 16° 2 | 22° 0 | 25°46 | 8°39 | 5°12 | 18°54 | 12°D 6 | 13°26 | 6°36 | 10°14 | S 30 |
| S 31 | 12 34 53 | 10♈39'10 | 29♊54 | 1♈32 | 5♉32 | 16♉44 | 21♏56 | 25♍41 | 8♉43 | 5♓14 | 18♋53 | 12♊ 7 | 13♊23 | 6♋43 | 10♉18 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 7s30 | 18n23 | 1s28 | 17s27 | 0s57 | 13n20 | 3n58 | 10n 3 | 0n 9 | 17s21 | 1n10 | 3n 7 | 2n32 | 13n36 | 0s24 | 10s42 | 0s45 | 23n24 | 1n17 | 22n38 | 22n38 | 25n 4 | 12n45 | 1s46 |
| S 2 | 7 7 | 21 36 | 0 25 | 17 13 | 1 5 | 13 44 | 4 6 | 10 20 | 0 10 | 17 21 | 1 10 | 3 9 | 2 32 | 13 37 | 0 24 | 10 41 | 0 45 | 23 24 | 1 17 | 22 38 | 22 38 | 25 5 | 12 45 | 1 46 |
| S 3 | 6 44 | 23 52 | 0n37 | 16 58 | 1 13 | 14 7 | 4 14 | 10 36 | 0 11 | 17 21 | 1 10 | 3 11 | 2 32 | 13 38 | 0 24 | 10 40 | 0 45 | 23 24 | 1 17 | 22 38 | 22 37 | 25 5 | 12 46 | 1 46 |
| M 4 | 6 21 | 25 4 | 1 38 | 16 41 | 1 20 | 14 29 | 4 21 | 10 52 | 0 11 | 17 21 | 1 10 | 3 12 | 2 32 | 13 38 | 0 24 | 10 40 | 0 45 | 23 24 | 1 17 | 22 38 | 22 37 | 25 6 | 12 47 | 1 46 |
| T 5 | 5 58 | 25 7 | 2 35 | 16 23 | 1 27 | 14 51 | 4 29 | 11 8 | 0 12 | 17 21 | 1 10 | 3 14 | 2 32 | 13 39 | 0 24 | 10 39 | 0 45 | 23 24 | 1 17 | 22 38 | 22 36 | 25 7 | 12 48 | 1 46 |
| W 6 | 5 35 | 24 1 | 3 25 | 16 4 | 1 33 | 15 12 | 4 37 | 11 24 | 0 13 | 17 21 | 1 10 | 3 16 | 2 32 | 13 40 | 0 24 | 10 38 | 0 45 | 23 24 | 1 17 | 22 37 | 22 36 | 25 7 | 12 49 | 1 46 |
| T 7 | 5 12 | 21 47 | 4 7 | 15 43 | 1 39 | 15 33 | 4 45 | 11 40 | 0 13 | 17 21 | 1 10 | 3 18 | 2 32 | 13 41 | 0 24 | 10 37 | 0 45 | 23 24 | 1 18 | 22 36 | 22 36 | 25 8 | 12 50 | 1 46 |
| F 8 | 4 48 | 18 32 | 4 38 | 15 21 | 1 44 | 15 54 | 4 52 | 11 55 | 0 14 | 17 21 | 1 11 | 3 20 | 2 32 | 13 42 | 0 24 | 10 36 | 0 45 | 23 25 | 1 18 | 22 35 | 22 35 | 25 8 | 12 51 | 1 46 |
| S 9 | 4 25 | 14 21 | 4 56 | 14 58 | 1 50 | 16 13 | 5 0 | 12 11 | 0 15 | 17 21 | 1 11 | 3 22 | 2 32 | 13 43 | 0 24 | 10 36 | 0 45 | 23 25 | 1 18 | 22 34 | 22 35 | 25 9 | 12 52 | 1 46 |
| S 10 | 4 1 | 9 28 | 4 59 | 14 33 | 1 54 | 16 33 | 5 8 | 12 26 | 0 16 | 17 20 | 1 11 | 3 24 | 2 33 | 13 43 | 0 24 | 10 35 | 0 45 | 23 25 | 1 18 | 22 32 | 22 35 | 25 10 | 12 53 | 1 46 |
| M11 | 3 38 | 4 3 | 4 47 | 14 7 | 1 59 | 16 51 | 5 15 | 12 41 | 0 16 | 17 20 | 1 11 | 3 26 | 2 33 | 13 44 | 0 24 | 10 34 | 0 45 | 23 25 | 1 18 | 22 31 | 22 34 | 25 10 | 12 54 | 1 46 |
| T 12 | 3 14 | 1s38 | 4 19 | 13 40 | 2 3 | 17 9 | 5 23 | 12 57 | 0 17 | 17 20 | 1 11 | 3 28 | 2 33 | 13 45 | 0 24 | 10 33 | 0 45 | 23 25 | 1 18 | 22 29 | 22 34 | 25 11 | 12 55 | 1 46 |
| W13 | 2 51 | 7 21 | 3 36 | 13 11 | 2 6 | 17 26 | 5 30 | 13 12 | 0 18 | 17 20 | 1 11 | 3 30 | 2 33 | 13 46 | 0 24 | 10 32 | 0 45 | 23 25 | 1 18 | 22 28 | 22 34 | 25 12 | 12 56 | 1 46 |
| T 14 | 2 27 | 12 47 | 2 40 | 12 41 | 2 9 | 17 43 | 5 37 | 13 27 | 0 18 | 17 19 | 1 11 | 3 32 | 2 33 | 13 47 | 0 24 | 10 32 | 0 45 | 23 25 | 1 18 | 22 27 | 22 33 | 25 12 | 12 57 | 1 46 |
| F 15 | 2 3 | 17 37 | 1 34 | 12 10 | 2 12 | 17 59 | 5 45 | 13 41 | 0 19 | 17 19 | 1 12 | 3 34 | 2 33 | 13 48 | 0 24 | 10 31 | 0 45 | 23 25 | 1 18 | 22 27 | 22 33 | 25 13 | 12 58 | 1 46 |
| S 16 | 1 40 | 21 32 | 0 22 | 11 37 | 2 14 | 18 14 | 5 52 | 13 56 | 0 20 | 17 18 | 1 12 | 3 36 | 2 33 | 13 49 | 0 24 | 10 30 | 0 45 | 23 25 | 1 18 | 22 27 | 22 32 | 25 13 | 12 59 | 1 46 |
| S 17 | 1 16 | 24 11 | 0s52 | 11 4 | 2 16 | 18 28 | 5 59 | 14 11 | 0 20 | 17 18 | 1 12 | 3 37 | 2 33 | 13 50 | 0 24 | 10 29 | 0 45 | 23 26 | 1 18 | 22 27 | 22 32 | 25 14 | 13 0 | 1 46 |
| M18 | 0 52 | 25 20 | 2 4 | 10 29 | 2 17 | 18 42 | 6 6 | 14 25 | 0 21 | 17 17 | 1 12 | 3 39 | 2 33 | 13 51 | 0 24 | 10 29 | 0 45 | 23 26 | 1 18 | 22 27 | 22 32 | 25 14 | 13 1 | 1 46 |
| T 19 | 0 29 | 24 50 | 3 8 | 9 52 | 2 18 | 18 55 | 6 12 | 14 39 | 0 22 | 17 17 | 1 12 | 3 41 | 2 33 | 13 52 | 0 24 | 10 28 | 0 45 | 23 26 | 1 18 | 22 27 | 22 31 | 25 15 | 13 2 | 1 46 |
| W20 | 0 5 | 22 44 | 4 0 | 9 15 | 2 18 | 19 7 | 6 19 | 14 53 | 0 22 | 17 16 | 1 12 | 3 43 | 2 33 | 13 52 | 0 24 | 10 27 | 0 46 | 23 26 | 1 18 | 22 26 | 22 31 | 25 15 | 13 3 | 1 46 |
| T 21 | 0n19 | 19 13 | 4 38 | 8 36 | 2 18 | 19 18 | 6 25 | 15 7 | 0 23 | 17 15 | 1 12 | 3 45 | 2 33 | 13 53 | 0 24 | 10 26 | 0 46 | 23 26 | 1 18 | 22 25 | 22 31 | 25 16 | 13 4 | 1 46 |
| F 22 | 0 42 | 14 38 | 4 58 | 7 56 | 2 18 | 19 28 | 6 31 | 15 21 | 0 24 | 17 15 | 1 12 | 3 47 | 2 33 | 13 54 | 0 24 | 10 26 | 0 46 | 23 26 | 1 18 | 22 24 | 22 30 | 25 17 | 13 5 | 1 46 |
| S 23 | 1 6 | 9 18 | 5 1 | 7 15 | 2 17 | 19 37 | 6 37 | 15 35 | 0 24 | 17 14 | 1 13 | 3 49 | 2 33 | 13 55 | 0 24 | 10 25 | 0 46 | 23 26 | 1 18 | 22 23 | 22 30 | 25 17 | 13 6 | 1 46 |
| S 24 | 1 30 | 3 36 | 4 45 | 6 33 | 2 15 | 19 45 | 6 43 | 15 49 | 0 25 | 17 13 | 1 13 | 3 51 | 2 33 | 13 56 | 0 24 | 10 24 | 0 46 | 23 26 | 1 18 | 22 21 | 22 29 | 25 18 | 13 7 | 1 46 |
| M25 | 1 53 | 2n 9 | 4 14 | 5 49 | 2 13 | 19 52 | 6 48 | 16 2 | 0 25 | 17 12 | 1 13 | 3 53 | 2 33 | 13 57 | 0 24 | 10 23 | 0 46 | 23 26 | 1 18 | 22 20 | 22 29 | 25 18 | 13 8 | 1 46 |
| T 26 | 2 17 | 7 42 | 3 30 | 5 5 | 2 11 | 19 58 | 6 53 | 16 15 | 0 26 | 17 11 | 1 13 | 3 54 | 2 33 | 13 58 | 0 24 | 10 23 | 0 46 | 23 26 | 1 18 | 22 19 | 22 29 | 25 19 | 13 9 | 1 46 |
| W27 | 2 40 | 12 47 | 2 36 | 4 19 | 2 8 | 20 3 | 6 57 | 16 29 | 0 27 | 17 10 | 1 13 | 3 56 | 2 33 | 13 59 | 0 24 | 10 22 | 0 46 | 23 26 | 1 18 | 22 18 | 22 28 | 25 19 | 13 10 | 1 46 |
| T 28 | 3 4 | 17 13 | 1 36 | 3 32 | 2 4 | 20 6 | 7 2 | 16 42 | 0 27 | 17 9 | 1 13 | 3 58 | 2 33 | 14 0 | 0 24 | 10 21 | 0 46 | 23 26 | 1 18 | 22 17 | 22 28 | 25 20 | 13 11 | 1 46 |
| F 29 | 3 27 | 20 49 | 0 32 | 2 44 | 2 0 | 20 9 | 7 5 | 16 54 | 0 28 | 17 8 | 1 13 | 4 0 | 2 33 | 14 1 | 0 24 | 10 20 | 0 46 | 23 26 | 1 18 | 22 17 | 22 27 | 25 20 | 13 13 | 1 47 |
| S 30 | 3 50 | 23 28 | 0n32 | 1 55 | 1 56 | 20 10 | 7 9 | 17 7 | 0 28 | 17 7 | 1 13 | 4 2 | 2 33 | 14 2 | 0 24 | 10 20 | 0 46 | 23 26 | 1 18 | 22 17 | 22 27 | 25 21 | 13 14 | 1 47 |
| S 31 | 4n13 | 25n 3 | 1n34 | 1s 5 | 1s51 | 20n10 | 7n12 | 17n20 | 0n29 | 17s 6 | 1n13 | 4n 3 | 2n33 | 14n 3 | 0s24 | 10s19 | 0s46 | 23n26 | 1n18 | 22n17 | 22n27 | 25n21 | 13n15 | 1s47 |

Julian Day Number = 2336918.5, Delta T = 20.31 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'34, Lahiri = 19°28'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## APRIL 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 38 50 | 11♈38'12 | 11♋42 | 3♈28 | 5°R21 | 17♉25 | 21°R52 | 25°R37 | 8♉46 | 5♓16 | 18°D53 | 12°R 7 | 13♊19 | 6♋49 | 10♉22 | M 1 |
| T 2 | 12 42 46 | 12°37'12 | 23°33 | 5°25 | 5♉ 8 | 18° 7 | 21♏48 | 25♍33 | 8°49 | 5°18 | 18♋53 | 12♊ 7 | 13°16 | 6°56 | 10°26 | T 2 |
| W 3 | 12 46 43 | 13°36'10 | 5♌32 | 7°23 | 4°52 | 18°49 | 21°43 | 25°28 | 8°52 | 5°20 | 18°54 | 12° 4 | 13°13 | 7° 3 | 10°29 | W 3 |
| T 4 | 12 50 39 | 14°35'05 | 17°44 | 9°22 | 4°34 | 19°30 | 21°39 | 25°24 | 8°55 | 5°22 | 18°54 | 11°59 | 13°10 | 7° 9 | 10°33 | T 4 |
| F 5 | 12 54 36 | 15°33'58 | 0♍12 | 11°23 | 4°13 | 20°12 | 21°34 | 25°20 | 8°59 | 5°23 | 18°54 | 11°52 | 13° 7 | 7°16 | 10°37 | F 5 |
| S 6 | 12 58 33 | 16°32'49 | 12°59 | 13°25 | 3°50 | 20°53 | 21°29 | 25°15 | 9° 2 | 5°25 | 18°54 | 11°44 | 13° 4 | 7°23 | 10°41 | S 6 |
| S 7 | 13 2 29 | 17°31'37 | 26° 6 | 15°29 | 3°25 | 21°34 | 21°24 | 25°11 | 9° 5 | 5°27 | 18°54 | 11°34 | 13° 0 | 7°29 | 10°45 | S 7 |
| M 8 | 13 6 26 | 18°30'24 | 9♎34 | 17°33 | 2°58 | 22°16 | 21°18 | 25° 7 | 9° 8 | 5°29 | 18°54 | 11°25 | 12°57 | 7°36 | 10°49 | M 8 |
| T 9 | 13 10 22 | 19°29'08 | 23°19 | 19°38 | 2°29 | 22°57 | 21°13 | 25° 3 | 9°12 | 5°31 | 18°54 | 11°17 | 12°54 | 7°42 | 10°53 | T 9 |
| W10 | 13 14 19 | 20°27'51 | 7♏18 | 21°44 | 1°58 | 23°38 | 21° 8 | 24°59 | 9°15 | 5°32 | 18°54 | 11°11 | 12°51 | 7°49 | 10°57 | W10 |
| T 11 | 13 18 15 | 21°26'31 | 21°27 | 23°51 | 1°25 | 24°20 | 21° 2 | 24°55 | 9°18 | 5°34 | 18°55 | 11° 7 | 12°48 | 7°56 | 11° 1 | T 11 |
| F 12 | 13 22 12 | 22°25'10 | 5♐42 | 25°58 | 0°51 | 25° 1 | 20°56 | 24°51 | 9°22 | 5°36 | 18°55 | 11°D 5 | 12°44 | 8° 2 | 11° 5 | F 12 |
| S 13 | 13 26 8 | 23°23'47 | 19°59 | 28° 5 | 0°16 | 25°42 | 20°50 | 24°47 | 9°25 | 5°38 | 18°55 | 11° 5 | 12°41 | 8° 9 | 11° 9 | S 13 |
| S 14 | 13 30 5 | 24°22'23 | 4♑15 | 0♉12 | 29♈40 | 26°23 | 20°44 | 24°43 | 9°28 | 5°39 | 18°56 | 11° 7 | 12°38 | 8°16 | 11°13 | S 14 |
| M15 | 13 34 2 | 25°20'57 | 18°27 | 2°18 | 29° 3 | 27° 4 | 20°38 | 24°40 | 9°32 | 5°41 | 18°56 | 11° 8 | 12°35 | 8°22 | 11°17 | M15 |
| T 16 | 13 37 58 | 26°19'29 | 2♒34 | 4°24 | 28°25 | 27°45 | 20°32 | 24°36 | 9°35 | 5°42 | 18°56 | 11°R 8 | 12°32 | 8°29 | 11°21 | T 16 |
| W17 | 13 41 55 | 27°18'00 | 16°35 | 6°29 | 27°47 | 28°26 | 20°25 | 24°32 | 9°39 | 5°44 | 18°57 | 11° 6 | 12°29 | 8°36 | 11°25 | W17 |
| T 18 | 13 45 51 | 28°16'29 | 0♓27 | 8°33 | 27° 9 | 29° 7 | 20°19 | 24°29 | 9°42 | 5°46 | 18°57 | 11° 2 | 12°25 | 8°42 | 11°29 | T 18 |
| F 19 | 13 49 48 | 29°14'56 | 14°11 | 10°35 | 26°32 | 29°48 | 20°12 | 24°25 | 9°45 | 5°47 | 18°57 | 10°57 | 12°22 | 8°49 | 11°33 | F 19 |
| S 20 | 13 53 44 | 0♉13'22 | 27°43 | 12°35 | 25°55 | 0♊29 | 20° 5 | 24°22 | 9°49 | 5°49 | 18°58 | 10°51 | 12°19 | 8°56 | 11°37 | S 20 |
| S 21 | 13 57 41 | 1°11'46 | 11♈ 2 | 14°32 | 25°18 | 1°10 | 19°59 | 24°19 | 9°52 | 5°50 | 18°58 | 10°44 | 12°16 | 9° 2 | 11°41 | S 21 |
| M22 | 14 1 37 | 2°10'08 | 24° 8 | 16°28 | 24°43 | 1°51 | 19°52 | 24°16 | 9°56 | 5°52 | 18°59 | 10°38 | 12°13 | 9° 9 | 11°45 | M22 |
| T 23 | 14 5 34 | 3° 8'28 | 6♉58 | 18°20 | 24° 8 | 2°31 | 19°45 | 24°12 | 9°59 | 5°53 | 18°59 | 10°32 | 12°10 | 9°16 | 11°50 | T 23 |
| W24 | 14 9 31 | 4° 6'47 | 19°33 | 20° 9 | 23°35 | 3°12 | 19°38 | 24° 9 | 10° 3 | 5°55 | 19° 0 | 10°29 | 12° 6 | 9°22 | 11°54 | W24 |
| T 25 | 14 13 27 | 5° 5'03 | 1♊53 | 21°55 | 23° 4 | 3°53 | 19°31 | 24° 6 | 10° 6 | 5°56 | 19° 1 | 10°27 | 12° 3 | 9°29 | 11°58 | T 25 |
| F 26 | 14 17 24 | 6° 3'18 | 14° 0 | 23°38 | 22°34 | 4°34 | 19°23 | 24° 3 | 10°10 | 5°57 | 19° 1 | 10°D26 | 12° 0 | 9°36 | 12° 2 | F 26 |
| S 27 | 14 21 20 | 7° 1'31 | 25°58 | 25°17 | 22° 6 | 5°14 | 19°16 | 24° 1 | 10°13 | 5°59 | 19° 2 | 10°27 | 11°57 | 9°42 | 12° 6 | S 27 |
| S 28 | 14 25 17 | 7°59'42 | 7♋49 | 26°52 | 21°40 | 5°55 | 19° 9 | 23°58 | 10°17 | 6° 0 | 19° 2 | 10°29 | 11°54 | 9°49 | 12°10 | S 28 |
| M29 | 14 29 13 | 8°57'51 | 19°37 | 28°24 | 21°16 | 6°35 | 19° 1 | 23°55 | 10°20 | 6° 1 | 19° 3 | 10°31 | 11°50 | 9°56 | 12°15 | M29 |
| T 30 | 14 33 10 | 9♉55'58 | 1♌29 | 29♉51 | 20♈54 | 7♊16 | 18♏54 | 23♍53 | 10♉24 | 6♓ 2 | 19♋ 4 | 10♊32 | 11♊47 | 10♋ 2 | 12♉19 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 4n37 | 25n29 | 2n32 | 0s14 | 1s45 | 20n 8 | 7n14 | 17n32 | 0n30 | 17s 5 | 1n14 | 4n 5 | 2n33 | 14n 4 | 0s24 | 10s18 | 0s46 | 23n26 | 1n18 | 22n17 | 22n26 | 25n21 | 13n16 | 1s47 |
| T 2 | 5 0 | 24 45 | 3 23 | 0n38 | 1 39 | 20 5 | 7 16 | 17 44 | 0 30 | 17 4 | 1 14 | 4 7 | 2 33 | 14 5 | 0 24 | 10 18 | 0 46 | 23 26 | 1 18 | 22 17 | 22 26 | 25 22 | 13 17 | 1 47 |
| W 3 | 5 23 | 22 54 | 4 6 | 1 31 | 1 33 | 20 1 | 7 17 | 17 56 | 0 31 | 17 2 | 1 14 | 4 9 | 2 33 | 14 6 | 0 24 | 10 17 | 0 46 | 23 26 | 1 18 | 22 17 | 22 26 | 25 22 | 13 18 | 1 47 |
| T 4 | 5 46 | 19 58 | 4 39 | 2 25 | 1 26 | 19 55 | 7 17 | 18 8 | 0 31 | 17 1 | 1 14 | 4 10 | 2 33 | 14 7 | 0 24 | 10 16 | 0 46 | 23 27 | 1 18 | 22 16 | 22 25 | 25 23 | 13 19 | 1 47 |
| F 5 | 6 8 | 16 5 | 4 59 | 3 19 | 1 18 | 19 47 | 7 17 | 18 20 | 0 32 | 17 0 | 1 14 | 4 12 | 2 33 | 14 9 | 0 24 | 10 16 | 0 46 | 23 27 | 1 19 | 22 15 | 22 25 | 25 23 | 13 21 | 1 47 |
| S 6 | 6 31 | 11 24 | 5 5 | 4 14 | 1 10 | 19 39 | 7 16 | 18 32 | 0 32 | 16 58 | 1 14 | 4 13 | 2 33 | 14 10 | 0 24 | 10 15 | 0 46 | 23 27 | 1 19 | 22 14 | 22 24 | 25 24 | 13 22 | 1 47 |
| S 7 | 6 54 | 6 4 | 4 56 | 5 9 | 1 2 | 19 28 | 7 15 | 18 43 | 0 33 | 16 57 | 1 14 | 4 15 | 2 33 | 14 11 | 0 24 | 10 14 | 0 46 | 23 27 | 1 19 | 22 13 | 22 24 | 25 24 | 13 23 | 1 47 |
| M 8 | 7 16 | 0 21 | 4 30 | 6 5 | 0 53 | 19 17 | 7 12 | 18 54 | 0 33 | 16 56 | 1 14 | 4 17 | 2 33 | 14 12 | 0 24 | 10 14 | 0 46 | 23 27 | 1 19 | 22 11 | 22 24 | 25 25 | 13 24 | 1 47 |
| T 9 | 7 38 | 5s32 | 3 48 | 7 2 | 0 43 | 19 4 | 7 9 | 19 5 | 0 34 | 16 54 | 1 14 | 4 18 | 2 33 | 14 13 | 0 24 | 10 13 | 0 46 | 23 27 | 1 19 | 22 10 | 22 23 | 25 25 | 13 25 | 1 47 |
| W10 | 8 0 | 11 16 | 2 52 | 7 58 | 0 34 | 18 49 | 7 5 | 19 16 | 0 35 | 16 53 | 1 14 | 4 20 | 2 32 | 14 14 | 0 23 | 10 13 | 0 46 | 23 27 | 1 19 | 22 9 | 22 23 | 25 25 | 13 26 | 1 47 |
| T 11 | 8 23 | 16 29 | 1 44 | 8 54 | 0 23 | 18 33 | 7 1 | 19 27 | 0 35 | 16 51 | 1 14 | 4 21 | 2 32 | 14 15 | 0 23 | 10 12 | 0 46 | 23 27 | 1 19 | 22 9 | 22 22 | 25 26 | 13 28 | 1 47 |
| F 12 | 8 44 | 20 49 | 0 29 | 9 50 | 0 13 | 18 16 | 6 55 | 19 38 | 0 36 | 16 50 | 1 14 | 4 23 | 2 32 | 14 16 | 0 23 | 10 11 | 0 46 | 23 27 | 1 19 | 22 9 | 22 22 | 25 26 | 13 29 | 1 47 |
| S 13 | 9 6 | 23 54 | 0s48 | 10 46 | 0 3 | 17 57 | 6 49 | 19 48 | 0 36 | 16 48 | 1 14 | 4 24 | 2 32 | 14 17 | 0 23 | 10 11 | 0 46 | 23 27 | 1 19 | 22 9 | 22 21 | 25 27 | 13 30 | 1 47 |
| S 14 | 9 28 | 25 27 | 2 2 | 11 41 | 0n 8 | 17 37 | 6 42 | 19 58 | 0 37 | 16 46 | 1 14 | 4 26 | 2 32 | 14 18 | 0 23 | 10 10 | 0 46 | 23 27 | 1 19 | 22 9 | 22 21 | 25 27 | 13 31 | 1 47 |
| M15 | 9 49 | 25 19 | 3 8 | 12 36 | 0 19 | 17 17 | 6 34 | 20 8 | 0 37 | 16 45 | 1 14 | 4 27 | 2 32 | 14 19 | 0 23 | 10 10 | 0 46 | 23 27 | 1 19 | 22 9 | 22 21 | 25 27 | 13 32 | 1 47 |
| T 16 | 10 11 | 23 33 | 4 2 | 13 29 | 0 30 | 16 55 | 6 25 | 20 18 | 0 38 | 16 43 | 1 14 | 4 28 | 2 32 | 14 20 | 0 23 | 10 9 | 0 46 | 23 27 | 1 19 | 22 9 | 22 20 | 25 28 | 13 34 | 1 47 |
| W17 | 10 32 | 20 22 | 4 42 | 14 21 | 0 41 | 16 32 | 6 16 | 20 28 | 0 38 | 16 41 | 1 15 | 4 30 | 2 32 | 14 21 | 0 23 | 10 8 | 0 46 | 23 27 | 1 19 | 22 9 | 22 20 | 25 28 | 13 35 | 1 47 |
| T 18 | 10 53 | 16 4 | 5 4 | 15 12 | 0 52 | 16 9 | 6 6 | 20 37 | 0 39 | 16 40 | 1 15 | 4 31 | 2 32 | 14 23 | 0 23 | 10 8 | 0 46 | 23 26 | 1 19 | 22 8 | 22 19 | 25 28 | 13 36 | 1 47 |
| F 19 | 11 14 | 10 59 | 5 9 | 16 0 | 1 2 | 15 45 | 5 55 | 20 47 | 0 39 | 16 38 | 1 15 | 4 32 | 2 32 | 14 24 | 0 23 | 10 7 | 0 46 | 23 26 | 1 19 | 22 8 | 22 19 | 25 29 | 13 37 | 1 47 |
| S 20 | 11 34 | 5 26 | 4 56 | 16 48 | 1 13 | 15 21 | 5 44 | 20 56 | 0 40 | 16 36 | 1 15 | 4 33 | 2 31 | 14 25 | 0 23 | 10 7 | 0 46 | 23 26 | 1 19 | 22 7 | 22 19 | 25 29 | 13 38 | 1 48 |
| S 21 | 11 55 | 0n16 | 4 27 | 17 33 | 1 23 | 14 57 | 5 32 | 21 5 | 0 40 | 16 34 | 1 15 | 4 35 | 2 31 | 14 26 | 0 23 | 10 6 | 0 46 | 23 26 | 1 19 | 22 6 | 22 18 | 25 29 | 13 40 | 1 48 |
| M22 | 12 15 | 5 53 | 3 45 | 18 16 | 1 32 | 14 32 | 5 19 | 21 14 | 0 41 | 16 32 | 1 15 | 4 36 | 2 31 | 14 27 | 0 23 | 10 6 | 0 46 | 23 26 | 1 19 | 22 5 | 22 18 | 25 30 | 13 41 | 1 48 |
| T 23 | 12 35 | 11 9 | 2 52 | 18 56 | 1 41 | 14 7 | 5 6 | 21 22 | 0 41 | 16 30 | 1 15 | 4 37 | 2 31 | 14 28 | 0 23 | 10 5 | 0 46 | 23 26 | 1 19 | 22 4 | 22 17 | 25 30 | 13 42 | 1 48 |
| W24 | 12 55 | 15 52 | 1 51 | 19 35 | 1 50 | 13 42 | 4 53 | 21 31 | 0 41 | 16 28 | 1 15 | 4 38 | 2 31 | 14 29 | 0 23 | 10 5 | 0 46 | 23 26 | 1 19 | 22 3 | 22 17 | 25 30 | 13 43 | 1 48 |
| T 25 | 13 14 | 19 49 | 0 47 | 20 10 | 1 58 | 13 18 | 4 39 | 21 39 | 0 42 | 16 27 | 1 15 | 4 39 | 2 31 | 14 30 | 0 23 | 10 4 | 0 46 | 23 26 | 1 19 | 22 3 | 22 17 | 25 31 | 13 44 | 1 48 |
| F 26 | 13 34 | 22 51 | 0n19 | 20 44 | 2 5 | 12 54 | 4 26 | 21 47 | 0 42 | 16 25 | 1 15 | 4 40 | 2 31 | 14 31 | 0 23 | 10 4 | 0 47 | 23 26 | 1 19 | 22 3 | 22 16 | 25 31 | 13 46 | 1 48 |
| S 27 | 13 53 | 24 49 | 1 24 | 21 15 | 2 11 | 12 30 | 4 11 | 21 55 | 0 43 | 16 23 | 1 15 | 4 41 | 2 30 | 14 32 | 0 23 | 10 3 | 0 47 | 23 26 | 1 19 | 22 3 | 22 16 | 25 31 | 13 47 | 1 48 |
| S 28 | 14 12 | 25 39 | 2 24 | 21 43 | 2 17 | 12 7 | 3 57 | 22 2 | 0 43 | 16 21 | 1 15 | 4 42 | 2 30 | 14 33 | 0 23 | 10 3 | 0 47 | 23 26 | 1 19 | 22 3 | 22 15 | 25 31 | 13 48 | 1 48 |
| M29 | 14 31 | 25 19 | 3 18 | 22 9 | 2 22 | 11 45 | 3 43 | 22 10 | 0 44 | 16 19 | 1 14 | 4 43 | 2 30 | 14 35 | 0 23 | 10 2 | 0 47 | 23 26 | 1 19 | 22 4 | 22 15 | 25 32 | 13 49 | 1 48 |
| T 30 | 14n49 | 23n50 | 4n 4 | 22n32 | 2n26 | 11n23 | 3n29 | 22n17 | 0n44 | 16s17 | 1n14 | 4n44 | 2n30 | 14n36 | 0s23 | 10s 2 | 0s47 | 23n26 | 1n19 | 22n 4 | 22n14 | 25n32 | 13n50 | 1s48 |

Julian Day Number = 2336949.5, Delta T = 20.27 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'38, Lahiri = 19°28'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## MAY 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 37 6 | 10♉54'04 | 13♌28 | 1♊15 | 20°R35 | 7♊57 | 18°R47 | 23°R50 | 10♉27 | 6♓ 4 | 19♋ 4 | 10°R32 | 11♊44 | 10♋ 9 | 12♉23 | W 1 |
| T 2 | 14 41 3 | 11°52'07 | 25°39 | 2°34 | 20♈18 | 8°37 | 18♏39 | 23♍48 | 10°30 | 6° 5 | 19° 5 | 10♊31 | 11°41 | 10°16 | 12°27 | T 2 |
| F 3 | 14 45 0 | 12°50'08 | 8♍ 8 | 3°50 | 20° 3 | 9°17 | 18°32 | 23°46 | 10°34 | 6° 6 | 19° 6 | 10°29 | 11°38 | 10°22 | 12°31 | F 3 |
| S 4 | 14 48 56 | 13°48'07 | 20°57 | 5° 1 | 19°51 | 9°58 | 18°24 | 23°43 | 10°37 | 6° 7 | 19° 7 | 10°26 | 11°35 | 10°29 | 12°36 | S 4 |
| S 5 | 14 52 53 | 14°46'05 | 4♎ 9 | 6° 7 | 19°41 | 10°38 | 18°16 | 23°41 | 10°41 | 6° 8 | 19° 8 | 10°22 | 11°31 | 10°36 | 12°40 | S 5 |
| M 6 | 14 56 49 | 15°44'00 | 17°45 | 7°10 | 19°33 | 11°18 | 18° 9 | 23°39 | 10°44 | 6° 9 | 19° 8 | 10°19 | 11°28 | 10°42 | 12°44 | M 6 |
| T 7 | 15 0 46 | 16°41'54 | 1♏44 | 8° 7 | 19°28 | 11°59 | 18° 1 | 23°37 | 10°48 | 6°10 | 19° 9 | 10°15 | 11°25 | 10°49 | 12°48 | T 7 |
| W 8 | 15 4 42 | 17°39'47 | 16° 2 | 9° 1 | 19°26 | 12°39 | 17°53 | 23°36 | 10°51 | 6°11 | 19°10 | 10°13 | 11°22 | 10°56 | 12°52 | W 8 |
| T 9 | 15 8 39 | 18°37'38 | 0♐35 | 9°49 | 19°D25 | 13°19 | 17°46 | 23°34 | 10°55 | 6°12 | 19°11 | 10°12 | 11°19 | 11° 2 | 12°57 | T 9 |
| F 10 | 15 12 35 | 19°35'27 | 15°16 | 10°33 | 19°27 | 13°59 | 17°38 | 23°32 | 10°58 | 6°13 | 19°12 | 10°D12 | 11°15 | 11° 9 | 13° 1 | F 10 |
| S 11 | 15 16 32 | 20°33'16 | 29°59 | 11°13 | 19°32 | 14°40 | 17°31 | 23°31 | 11° 2 | 6°14 | 19°13 | 10°12 | 11°12 | 11°16 | 13° 5 | S 11 |
| S 12 | 15 20 29 | 21°31'03 | 14♑37 | 11°48 | 19°39 | 15°20 | 17°23 | 23°29 | 11° 5 | 6°15 | 19°14 | 10°14 | 11° 9 | 11°22 | 13° 9 | S 12 |
| M13 | 15 24 25 | 22°28'49 | 29° 5 | 12°17 | 19°47 | 16° 0 | 17°15 | 23°28 | 11° 8 | 6°16 | 19°15 | 10°15 | 11° 6 | 11°29 | 13°13 | M13 |
| T 14 | 15 28 22 | 23°26'33 | 13♒21 | 12°42 | 19°58 | 16°40 | 17° 8 | 23°27 | 11°12 | 6°17 | 19°16 | 10°16 | 11° 3 | 11°36 | 13°17 | T 14 |
| W15 | 15 32 18 | 24°24'17 | 27°21 | 13° 3 | 20°12 | 17°20 | 17° 0 | 23°25 | 11°15 | 6°18 | 19°17 | 10°R16 | 11° 0 | 11°42 | 13°22 | W15 |
| T 16 | 15 36 15 | 25°21'59 | 11♓ 5 | 13°18 | 20°27 | 18° 0 | 16°53 | 23°24 | 11°19 | 6°18 | 19°18 | 10°15 | 10°56 | 11°49 | 13°26 | T 16 |
| F 17 | 15 40 11 | 26°19'41 | 24°33 | 13°28 | 20°44 | 18°40 | 16°45 | 23°24 | 11°22 | 6°19 | 19°19 | 10°14 | 10°53 | 11°56 | 13°30 | F 17 |
| S 18 | 15 44 8 | 27°17'21 | 7♈45 | 13°34 | 21° 3 | 19°20 | 16°38 | 23°23 | 11°25 | 6°20 | 19°20 | 10°13 | 10°50 | 12° 2 | 13°34 | S 18 |
| S 19 | 15 48 4 | 28°15'00 | 20°43 | 13°R35 | 21°23 | 20° 0 | 16°30 | 23°22 | 11°29 | 6°21 | 19°21 | 10°11 | 10°47 | 12° 9 | 13°38 | S 19 |
| M20 | 15 52 1 | 29°12'38 | 3♉26 | 13°32 | 21°46 | 20°40 | 16°23 | 23°21 | 11°32 | 6°21 | 19°22 | 10° 9 | 10°44 | 12°16 | 13°42 | M20 |
| T 21 | 15 55 58 | 0♊10'16 | 15°56 | 13°24 | 22°10 | 21°19 | 16°16 | 23°21 | 11°35 | 6°22 | 19°23 | 10° 8 | 10°41 | 12°22 | 13°46 | T 21 |
| W22 | 15 59 54 | 1° 7'52 | 28°14 | 13°11 | 22°36 | 21°59 | 16° 9 | 23°20 | 11°39 | 6°22 | 19°24 | 10° 8 | 10°37 | 12°29 | 13°50 | W22 |
| T 23 | 16 3 51 | 2° 5'27 | 10♊22 | 12°55 | 23° 4 | 22°39 | 16° 1 | 23°20 | 11°42 | 6°23 | 19°25 | 10°D 7 | 10°34 | 12°36 | 13°54 | T 23 |
| F 24 | 16 7 47 | 3° 3'00 | 22°22 | 12°35 | 23°33 | 23°19 | 15°54 | 23°20 | 11°45 | 6°23 | 19°27 | 10° 7 | 10°31 | 12°42 | 13°58 | F 24 |
| S 25 | 16 11 44 | 4° 0'33 | 4♋15 | 12°11 | 24° 3 | 23°59 | 15°47 | 23°20 | 11°49 | 6°24 | 19°28 | 10° 8 | 10°28 | 12°49 | 14° 2 | S 25 |
| S 26 | 16 15 40 | 4°58'04 | 16° 4 | 11°45 | 24°35 | 24°38 | 15°41 | 23°D20 | 11°52 | 6°24 | 19°29 | 10° 9 | 10°25 | 12°56 | 14° 6 | S 26 |
| M27 | 16 19 37 | 5°55'35 | 27°53 | 11°16 | 25° 8 | 25°18 | 15°34 | 23°20 | 11°55 | 6°25 | 19°30 | 10° 9 | 10°21 | 13° 2 | 14°10 | M27 |
| T 28 | 16 23 33 | 6°53'04 | 9♌45 | 10°46 | 25°42 | 25°58 | 15°27 | 23°20 | 11°58 | 6°25 | 19°31 | 10° 9 | 10°18 | 13° 9 | 14°14 | T 28 |
| W29 | 16 27 30 | 7°50'31 | 21°44 | 10°13 | 26°18 | 26°37 | 15°20 | 23°20 | 12° 2 | 6°26 | 19°33 | 10°10 | 10°15 | 13°16 | 14°18 | W29 |
| T 30 | 16 31 27 | 8°47'57 | 3♍54 | 9°40 | 26°55 | 27°17 | 15°14 | 23°21 | 12° 5 | 6°26 | 19°34 | 10°10 | 10°12 | 13°22 | 14°22 | T 30 |
| F 31 | 16 35 23 | 9♊45'23 | 16♍20 | 9♊ 6 | 27♈33 | 27♊56 | 15♏ 7 | 23♍21 | 12♉ 8 | 6♓26 | 19♋35 | 10♊10 | 10♊ 9 | 13♋29 | 14♉26 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 15n 7 | 21n16 | 4n40 | 22n53 | 2n29 | 11n 3 | 3n14 | 22n24 | 0n45 | 16s15 | 1n14 | 4n45 | 2n30 | 14n37 | 0s23 | 10s 2 | 0s47 | 23n26 | 1n19 | 22n 4 | 22n14 | 25n32 | 13n52 | 1s48 |
| T 2 | 15 25 | 17 45 | 5 3 | 23 11 | 2 32 | 10 43 | 3 0 | 22 31 | 0 45 | 16 13 | 1 14 | 4 45 | 2 30 | 14 38 | 0 23 | 10 1 | 0 47 | 23 26 | 1 19 | 22 4 | 22 14 | 25 33 | 13 53 | 1 48 |
| F 3 | 15 43 | 13 23 | 5 13 | 23 28 | 2 33 | 10 24 | 2 46 | 22 38 | 0 45 | 16 11 | 1 14 | 4 46 | 2 29 | 14 39 | 0 23 | 10 1 | 0 47 | 23 26 | 1 19 | 22 4 | 22 13 | 25 33 | 13 54 | 1 49 |
| S 4 | 16 1 | 8 19 | 5 9 | 23 41 | 2 34 | 10 7 | 2 32 | 22 44 | 0 46 | 16 9 | 1 14 | 4 47 | 2 29 | 14 40 | 0 23 | 10 0 | 0 47 | 23 26 | 1 19 | 22 3 | 22 13 | 25 33 | 13 55 | 1 49 |
| S 5 | 16 18 | 2 45 | 4 47 | 23 53 | 2 33 | 9 50 | 2 18 | 22 51 | 0 46 | 16 7 | 1 14 | 4 47 | 2 29 | 14 41 | 0 23 | 10 0 | 0 47 | 23 26 | 1 20 | 22 3 | 22 12 | 25 33 | 13 56 | 1 49 |
| M 6 | 16 35 | 3s 8 | 4 10 | 24 2 | 2 32 | 9 35 | 2 4 | 22 57 | 0 47 | 16 5 | 1 14 | 4 48 | 2 29 | 14 42 | 0 23 | 10 0 | 0 47 | 23 25 | 1 20 | 22 2 | 22 12 | 25 33 | 13 58 | 1 49 |
| T 7 | 16 51 | 9 2 | 3 16 | 24 10 | 2 29 | 9 20 | 1 51 | 23 3 | 0 47 | 16 3 | 1 14 | 4 49 | 2 29 | 14 43 | 0 23 | 9 59 | 0 47 | 23 25 | 1 20 | 22 2 | 22 11 | 25 34 | 13 59 | 1 49 |
| W 8 | 17 8 | 14 36 | 2 9 | 24 15 | 2 26 | 9 7 | 1 38 | 23 8 | 0 47 | 16 1 | 1 14 | 4 49 | 2 29 | 14 44 | 0 23 | 9 59 | 0 47 | 23 25 | 1 20 | 22 1 | 22 11 | 25 34 | 14 0 | 1 49 |
| T 9 | 17 24 | 19 27 | 0 53 | 24 18 | 2 22 | 8 55 | 1 25 | 23 14 | 0 48 | 15 58 | 1 14 | 4 50 | 2 28 | 14 45 | 0 23 | 9 59 | 0 47 | 23 25 | 1 20 | 22 1 | 22 10 | 25 34 | 14 1 | 1 49 |
| F 10 | 17 40 | 23 8 | 0s28 | 24 19 | 2 16 | 8 44 | 1 12 | 23 19 | 0 48 | 15 56 | 1 14 | 4 50 | 2 28 | 14 47 | 0 23 | 9 58 | 0 47 | 23 25 | 1 20 | 22 1 | 22 10 | 25 34 | 14 2 | 1 49 |
| S 11 | 17 55 | 25 16 | 1 47 | 24 18 | 2 10 | 8 35 | 1 0 | 23 24 | 0 49 | 15 54 | 1 14 | 4 51 | 2 28 | 14 48 | 0 23 | 9 58 | 0 47 | 23 25 | 1 20 | 22 1 | 22 10 | 25 35 | 14 3 | 1 49 |
| S 12 | 18 10 | 25 38 | 2 59 | 24 16 | 2 2 | 8 26 | 0 48 | 23 29 | 0 49 | 15 52 | 1 14 | 4 51 | 2 28 | 14 49 | 0 23 | 9 58 | 0 47 | 23 25 | 1 20 | 22 1 | 22 9 | 25 35 | 14 5 | 1 49 |
| M13 | 18 25 | 24 16 | 3 58 | 24 11 | 1 54 | 8 19 | 0 36 | 23 34 | 0 49 | 15 50 | 1 14 | 4 51 | 2 28 | 14 50 | 0 23 | 9 57 | 0 47 | 23 25 | 1 20 | 22 1 | 22 9 | 25 35 | 14 6 | 1 49 |
| T 14 | 18 40 | 21 21 | 4 42 | 24 5 | 1 44 | 8 12 | 0 25 | 23 38 | 0 50 | 15 48 | 1 13 | 4 52 | 2 27 | 14 51 | 0 23 | 9 57 | 0 47 | 23 25 | 1 20 | 22 2 | 22 8 | 25 35 | 14 7 | 1 50 |
| W15 | 18 54 | 17 14 | 5 8 | 23 57 | 1 34 | 8 7 | 0 14 | 23 42 | 0 50 | 15 46 | 1 13 | 4 52 | 2 27 | 14 52 | 0 23 | 9 57 | 0 47 | 23 25 | 1 20 | 22 2 | 22 8 | 25 35 | 14 8 | 1 50 |
| T 16 | 19 8 | 12 17 | 5 16 | 23 48 | 1 22 | 8 3 | 0 3 | 23 47 | 0 51 | 15 44 | 1 13 | 4 52 | 2 27 | 14 53 | 0 23 | 9 57 | 0 47 | 23 24 | 1 20 | 22 2 | 22 7 | 25 35 | 14 9 | 1 50 |
| F 17 | 19 22 | 6 51 | 5 6 | 23 37 | 1 10 | 8 0 | 0s 7 | 23 50 | 0 51 | 15 42 | 1 13 | 4 52 | 2 27 | 14 54 | 0 23 | 9 56 | 0 47 | 23 24 | 1 20 | 22 1 | 22 7 | 25 36 | 14 10 | 1 50 |
| S 18 | 19 35 | 1 13 | 4 41 | 23 24 | 0 57 | 7 58 | 0 17 | 23 54 | 0 51 | 15 40 | 1 13 | 4 53 | 2 27 | 14 55 | 0 23 | 9 56 | 0 47 | 23 24 | 1 20 | 22 1 | 22 7 | 25 36 | 14 11 | 1 50 |
| S 19 | 19 48 | 4n23 | 4 1 | 23 10 | 0 42 | 7 56 | 0 27 | 23 58 | 0 52 | 15 38 | 1 13 | 4 53 | 2 26 | 14 56 | 0 23 | 9 56 | 0 47 | 23 24 | 1 20 | 22 1 | 22 6 | 25 36 | 14 12 | 1 50 |
| M20 | 20 1 | 9 42 | 3 10 | 22 55 | 0 27 | 7 56 | 0 36 | 24 1 | 0 52 | 15 36 | 1 13 | 4 53 | 2 26 | 14 57 | 0 23 | 9 56 | 0 47 | 23 24 | 1 20 | 22 1 | 22 6 | 25 36 | 14 14 | 1 50 |
| T 21 | 20 13 | 14 33 | 2 10 | 22 39 | 0 12 | 7 57 | 0 45 | 24 4 | 0 52 | 15 34 | 1 13 | 4 53 | 2 26 | 14 58 | 0 23 | 9 56 | 0 47 | 23 24 | 1 20 | 22 0 | 22 5 | 25 36 | 14 15 | 1 50 |
| W22 | 20 25 | 18 44 | 1 5 | 22 21 | 0s 4 | 7 59 | 0 54 | 24 7 | 0 53 | 15 32 | 1 12 | 4 53 | 2 26 | 14 59 | 0 23 | 9 55 | 0 47 | 23 24 | 1 20 | 22 0 | 22 5 | 25 36 | 14 16 | 1 50 |
| T 23 | 20 37 | 22 4 | 0n 1 | 22 2 | 0 21 | 8 1 | 1 2 | 24 9 | 0 53 | 15 31 | 1 12 | 4 53 | 2 26 | 15 0 | 0 23 | 9 55 | 0 47 | 23 24 | 1 20 | 22 0 | 22 4 | 25 36 | 14 17 | 1 51 |
| F 24 | 20 48 | 24 23 | 1 7 | 21 43 | 0 38 | 8 4 | 1 10 | 24 12 | 0 53 | 15 29 | 1 12 | 4 53 | 2 25 | 15 1 | 0 23 | 9 55 | 0 47 | 23 24 | 1 20 | 22 0 | 22 4 | 25 36 | 14 18 | 1 51 |
| S 25 | 20 59 | 25 35 | 2 10 | 21 23 | 0 56 | 8 8 | 1 18 | 24 14 | 0 54 | 15 27 | 1 12 | 4 52 | 2 25 | 15 2 | 0 23 | 9 55 | 0 48 | 23 23 | 1 20 | 22 0 | 22 3 | 25 36 | 14 19 | 1 51 |
| S 26 | 21 10 | 25 36 | 3 7 | 21 2 | 1 13 | 8 13 | 1 25 | 24 16 | 0 54 | 15 25 | 1 12 | 4 52 | 2 25 | 15 3 | 0 23 | 9 55 | 0 48 | 23 23 | 1 20 | 22 1 | 22 3 | 25 37 | 14 20 | 1 51 |
| M27 | 21 20 | 24 28 | 3 55 | 20 41 | 1 30 | 8 19 | 1 32 | 24 18 | 0 54 | 15 23 | 1 12 | 4 52 | 2 25 | 15 4 | 0 23 | 9 55 | 0 48 | 23 23 | 1 20 | 22 1 | 22 2 | 25 37 | 14 21 | 1 51 |
| T 28 | 21 30 | 22 14 | 4 34 | 20 19 | 1 48 | 8 25 | 1 39 | 24 20 | 0 55 | 15 21 | 1 11 | 4 52 | 2 25 | 15 5 | 0 23 | 9 55 | 0 48 | 23 23 | 1 20 | 22 1 | 22 2 | 25 37 | 14 22 | 1 51 |
| W29 | 21 39 | 19 2 | 5 1 | 19 58 | 2 4 | 8 32 | 1 46 | 24 21 | 0 55 | 15 20 | 1 11 | 4 51 | 2 24 | 15 6 | 0 23 | 9 54 | 0 48 | 23 23 | 1 20 | 22 1 | 22 1 | 25 37 | 14 23 | 1 51 |
| T 30 | 21 48 | 14 59 | 5 16 | 19 37 | 2 21 | 8 39 | 1 52 | 24 22 | 0 55 | 15 18 | 1 11 | 4 51 | 2 24 | 15 7 | 0 23 | 9 54 | 0 48 | 23 23 | 1 20 | 22 1 | 22 1 | 25 37 | 14 24 | 1 51 |
| F 31 | 21n57 | 10n15 | 5n16 | 19n17 | 2s36 | 8n47 | 1s58 | 24n23 | 0n56 | 15s16 | 1n11 | 4n51 | 2n24 | 15n 8 | 0s23 | 9s54 | 0s48 | 23n23 | 1n20 | 22n 1 | 22n 1 | 25n37 | 14n25 | 1s52 |

Julian Day Number = 2336979.5, Delta T = 20.23 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'42, Lahiri = 19°28'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## JUNE 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 39 20 | 10♊42'46 | 29♍ 6 | 8°R33 | 28♈12 | 28♊36 | 15°R 1 | 23♍22 | 12♉11 | 6♓26 | 19♋36 | 10♊10 | 10♊ 6 | 13♋36 | 14♉30 | S 1 |
| S 2 | 16 43 16 | 11°40'09 | 12♎15 | 8♊ 1 | 28°53 | 29°15 | 14♏55 | 23°22 | 12°14 | 6°27 | 19°38 | 10°10 | 10° 2 | 13°42 | 14°34 | S 2 |
| M 3 | 16 47 13 | 12°37'31 | 25°50 | 7°29 | 29°34 | 29°55 | 14°49 | 23°23 | 12°17 | 6°27 | 19°39 | 10°10 | 9°59 | 13°49 | 14°38 | M 3 |
| T 4 | 16 51 9 | 13°34'51 | 9♏52 | 7° 0 | 0♉16 | 0♋34 | 14°43 | 23°24 | 12°21 | 6°27 | 19°40 | 10°10 | 9°56 | 13°56 | 14°42 | T 4 |
| W 5 | 16 55 6 | 14°32'11 | 24°17 | 6°33 | 0°59 | 1°14 | 14°37 | 23°25 | 12°24 | 6°27 | 19°42 | 10°11 | 9°53 | 14° 2 | 14°45 | W 5 |
| T 6 | 16 59 2 | 15°29'30 | 9♐ 3 | 6° 9 | 1°43 | 1°53 | 14°31 | 23°26 | 12°27 | 6°27 | 19°43 | 10°R11 | 9°50 | 14° 9 | 14°49 | T 6 |
| F 7 | 17 2 59 | 16°26'48 | 24° 2 | 5°48 | 2°28 | 2°32 | 14°26 | 23°27 | 12°30 | 6°27 | 19°45 | 10°11 | 9°47 | 14°16 | 14°53 | F 7 |
| S 8 | 17 6 56 | 17°24'06 | 9♑ 6 | 5°31 | 3°14 | 3°12 | 14°20 | 23°29 | 12°33 | 6°R27 | 19°46 | 10°10 | 9°43 | 14°22 | 14°57 | S 8 |
| S 9 | 17 10 52 | 18°21'23 | 24° 7 | 5°17 | 4° 1 | 3°51 | 14°15 | 23°30 | 12°36 | 6°27 | 19°47 | 10° 9 | 9°40 | 14°29 | 15° 0 | S 9 |
| M10 | 17 14 49 | 19°18'39 | 8♒56 | 5° 8 | 4°49 | 4°30 | 14°10 | 23°32 | 12°39 | 6°27 | 19°49 | 10° 8 | 9°37 | 14°36 | 15° 4 | M10 |
| T 11 | 17 18 45 | 20°15'55 | 23°27 | 5° 3 | 5°37 | 5° 9 | 14° 5 | 23°33 | 12°42 | 6°27 | 19°50 | 10° 7 | 9°34 | 14°42 | 15° 8 | T 11 |
| W12 | 17 22 42 | 21°13'11 | 7♓36 | 5°D 3 | 6°26 | 5°49 | 14° 0 | 23°35 | 12°44 | 6°27 | 19°52 | 10° 7 | 9°31 | 14°49 | 15°11 | W12 |
| T 13 | 17 26 38 | 22°10'26 | 21°22 | 5° 7 | 7°16 | 6°28 | 13°55 | 23°37 | 12°47 | 6°27 | 19°53 | 10°D 6 | 9°27 | 14°56 | 15°15 | T 13 |
| F 14 | 17 30 35 | 23° 7'42 | 4♈45 | 5°15 | 8° 6 | 7° 7 | 13°51 | 23°39 | 12°50 | 6°27 | 19°55 | 10° 7 | 9°24 | 15° 2 | 15°18 | F 14 |
| S 15 | 17 34 31 | 24° 4'57 | 17°46 | 5°28 | 8°57 | 7°46 | 13°46 | 23°41 | 12°53 | 6°27 | 19°56 | 10° 7 | 9°21 | 15° 9 | 15°22 | S 15 |
| S 16 | 17 38 28 | 25° 2'11 | 0♉29 | 5°46 | 9°49 | 8°25 | 13°42 | 23°43 | 12°56 | 6°26 | 19°57 | 10° 9 | 9°18 | 15°16 | 15°25 | S 16 |
| M17 | 17 42 25 | 25°59'26 | 12°56 | 6° 9 | 10°41 | 9° 5 | 13°38 | 23°45 | 12°59 | 6°26 | 19°59 | 10°10 | 9°15 | 15°22 | 15°29 | M17 |
| T 18 | 17 46 21 | 26°56'40 | 25°11 | 6°36 | 11°34 | 9°44 | 13°34 | 23°47 | 13° 1 | 6°26 | 20° 0 | 10°11 | 9°12 | 15°29 | 15°32 | T 18 |
| W19 | 17 50 18 | 27°53'55 | 7♊16 | 7° 8 | 12°27 | 10°23 | 13°30 | 23°50 | 13° 4 | 6°25 | 20° 2 | 10°R12 | 9° 8 | 15°36 | 15°36 | W19 |
| T 20 | 17 54 14 | 28°51'09 | 19°13 | 7°44 | 13°21 | 11° 2 | 13°27 | 23°52 | 13° 7 | 6°25 | 20° 4 | 10°11 | 9° 5 | 15°42 | 15°39 | T 20 |
| F 21 | 17 58 11 | 29°48'23 | 1♋ 6 | 8°25 | 14°16 | 11°41 | 13°23 | 23°55 | 13° 9 | 6°25 | 20° 5 | 10°10 | 9° 2 | 15°49 | 15°42 | F 21 |
| S 22 | 18 2 7 | 0♋45'36 | 12°55 | 9°10 | 15°11 | 12°20 | 13°20 | 23°57 | 13°12 | 6°24 | 20° 7 | 10° 8 | 8°59 | 15°56 | 15°45 | S 22 |
| S 23 | 18 6 4 | 1°42'49 | 24°44 | 9°59 | 16° 6 | 12°59 | 13°17 | 24° 0 | 13°14 | 6°24 | 20° 8 | 10° 5 | 8°56 | 16° 2 | 15°49 | S 23 |
| M24 | 18 10 1 | 2°40'02 | 6♌34 | 10°53 | 17° 2 | 13°38 | 13°14 | 24° 3 | 13°17 | 6°23 | 20°10 | 10° 1 | 8°53 | 16° 9 | 15°52 | M24 |
| T 25 | 18 13 57 | 3°37'15 | 18°28 | 11°51 | 17°59 | 14°17 | 13°11 | 24° 6 | 13°19 | 6°23 | 20°11 | 9°58 | 8°49 | 16°16 | 15°55 | T 25 |
| W26 | 18 17 54 | 4°34'27 | 0♍30 | 12°53 | 18°55 | 14°56 | 13° 9 | 24° 9 | 13°22 | 6°22 | 20°13 | 9°54 | 8°46 | 16°22 | 15°58 | W26 |
| T 27 | 18 21 50 | 5°31'39 | 12°41 | 13°59 | 19°53 | 15°35 | 13° 6 | 24°12 | 13°24 | 6°22 | 20°14 | 9°51 | 8°43 | 16°29 | 16° 1 | T 27 |
| F 28 | 18 25 47 | 6°28'51 | 25° 6 | 15° 9 | 20°50 | 16°13 | 13° 4 | 24°15 | 13°27 | 6°21 | 20°16 | 9°50 | 8°40 | 16°36 | 16° 4 | F 28 |
| S 29 | 18 29 43 | 7°26'02 | 7♎48 | 16°23 | 21°48 | 16°52 | 13° 2 | 24°18 | 13°29 | 6°21 | 20°18 | 9°D49 | 8°37 | 16°43 | 16° 7 | S 29 |
| S 30 | 18 33 40 | 8♋23'13 | 20♎52 | 17♊42 | 22♉47 | 17♋31 | 13♏ 0 | 24♍22 | 13♉31 | 6♓20 | 20♋19 | 9♊50 | 8♊33 | 16♋49 | 16♉10 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 5 | 4n57 | 5n 0 | 18n57 | 2s51 | 8n56 | 2s 3 | 24n24 | 0n56 | 15s15 | 1n11 | 4n50 | 2n24 | 15n 9 | 0s23 | 9s54 | 0s48 | 23n22 | 1n21 | 22n 1 | 22n 0 | 25n37 | 14n26 | 1s52 |
| S 2 | 22 13 | 0s43 | 4 29 | 18 38 | 3 5 | 9 5 | 2 9 | 24 25 | 0 56 | 15 13 | 1 10 | 4 50 | 2 23 | 15 10 | 0 23 | 9 54 | 0 48 | 23 22 | 1 21 | 22 1 | 22 0 | 25 37 | 14 27 | 1 52 |
| M 3 | 22 21 | 6 33 | 3 42 | 18 20 | 3 18 | 9 15 | 2 14 | 24 25 | 0 56 | 15 11 | 1 10 | 4 49 | 2 23 | 15 11 | 0 23 | 9 54 | 0 48 | 23 22 | 1 21 | 22 1 | 21 59 | 25 37 | 14 28 | 1 52 |
| T 4 | 22 28 | 12 15 | 2 41 | 18 4 | 3 30 | 9 25 | 2 19 | 24 25 | 0 57 | 15 10 | 1 10 | 4 49 | 2 23 | 15 12 | 0 23 | 9 54 | 0 48 | 23 22 | 1 21 | 22 1 | 21 59 | 25 37 | 14 29 | 1 52 |
| W 5 | 22 35 | 17 28 | 1 27 | 17 49 | 3 40 | 9 36 | 2 23 | 24 26 | 0 57 | 15 8 | 1 10 | 4 48 | 2 23 | 15 13 | 0 23 | 9 54 | 0 48 | 23 22 | 1 21 | 22 1 | 21 58 | 25 37 | 14 30 | 1 52 |
| T 6 | 22 41 | 21 44 | 0 6 | 17 36 | 3 50 | 9 47 | 2 27 | 24 25 | 0 57 | 15 7 | 1 10 | 4 47 | 2 23 | 15 14 | 0 23 | 9 54 | 0 48 | 23 22 | 1 21 | 22 1 | 21 58 | 25 37 | 14 31 | 1 52 |
| F 7 | 22 47 | 24 37 | 1s16 | 17 25 | 3 58 | 9 59 | 2 32 | 24 25 | 0 58 | 15 5 | 1 9 | 4 47 | 2 22 | 15 15 | 0 23 | 9 54 | 0 48 | 23 21 | 1 21 | 22 1 | 21 57 | 25 37 | 14 32 | 1 53 |
| S 8 | 22 53 | 25 43 | 2 34 | 17 15 | 4 4 | 10 11 | 2 35 | 24 24 | 0 58 | 15 4 | 1 9 | 4 46 | 2 22 | 15 16 | 0 23 | 9 54 | 0 48 | 23 21 | 1 21 | 22 1 | 21 57 | 25 37 | 14 33 | 1 53 |
| S 9 | 22 58 | 24 56 | 3 40 | 17 8 | 4 10 | 10 23 | 2 39 | 24 24 | 0 58 | 15 3 | 1 9 | 4 45 | 2 22 | 15 17 | 0 23 | 9 54 | 0 48 | 23 21 | 1 21 | 22 1 | 21 56 | 25 37 | 14 34 | 1 53 |
| M10 | 23 3 | 22 25 | 4 31 | 17 2 | 4 14 | 10 36 | 2 42 | 24 23 | 0 58 | 15 1 | 1 9 | 4 45 | 2 22 | 15 17 | 0 23 | 9 54 | 0 48 | 23 21 | 1 21 | 22 1 | 21 56 | 25 37 | 14 35 | 1 53 |
| T 11 | 23 7 | 18 30 | 5 4 | 16 58 | 4 16 | 10 49 | 2 46 | 24 21 | 0 59 | 15 0 | 1 9 | 4 44 | 2 22 | 15 18 | 0 23 | 9 54 | 0 48 | 23 21 | 1 21 | 22 0 | 21 55 | 25 37 | 14 36 | 1 53 |
| W12 | 23 11 | 13 37 | 5 17 | 16 57 | 4 18 | 11 2 | 2 49 | 24 20 | 0 59 | 14 59 | 1 8 | 4 43 | 2 21 | 15 19 | 0 23 | 9 54 | 0 48 | 23 21 | 1 21 | 22 0 | 21 55 | 25 37 | 14 37 | 1 53 |
| T 13 | 23 15 | 8 11 | 5 11 | 16 57 | 4 18 | 11 15 | 2 51 | 24 18 | 0 59 | 14 58 | 1 8 | 4 42 | 2 21 | 15 20 | 0 23 | 9 54 | 0 48 | 23 20 | 1 21 | 22 0 | 21 54 | 25 37 | 14 38 | 1 53 |
| F 14 | 23 18 | 2 31 | 4 48 | 17 0 | 4 17 | 11 29 | 2 54 | 24 17 | 0 59 | 14 57 | 1 8 | 4 41 | 2 21 | 15 21 | 0 23 | 9 55 | 0 48 | 23 20 | 1 21 | 22 0 | 21 54 | 25 37 | 14 38 | 1 54 |
| S 15 | 23 21 | 3n 7 | 4 11 | 17 4 | 4 15 | 11 43 | 2 56 | 24 15 | 1 0 | 14 55 | 1 8 | 4 40 | 2 21 | 15 22 | 0 23 | 9 55 | 0 48 | 23 20 | 1 21 | 22 0 | 21 53 | 25 37 | 14 39 | 1 54 |
| S 16 | 23 23 | 8 30 | 3 22 | 17 10 | 4 12 | 11 57 | 2 58 | 24 13 | 1 0 | 14 54 | 1 7 | 4 39 | 2 20 | 15 23 | 0 23 | 9 55 | 0 48 | 23 20 | 1 21 | 22 1 | 21 53 | 25 37 | 14 40 | 1 54 |
| M17 | 23 25 | 13 27 | 2 25 | 17 18 | 4 8 | 12 12 | 3 0 | 24 10 | 1 0 | 14 53 | 1 7 | 4 38 | 2 20 | 15 23 | 0 23 | 9 55 | 0 48 | 23 20 | 1 21 | 22 1 | 21 53 | 25 37 | 14 41 | 1 54 |
| T 18 | 23 27 | 17 46 | 1 22 | 17 28 | 4 3 | 12 26 | 3 2 | 24 8 | 1 0 | 14 53 | 1 7 | 4 37 | 2 20 | 15 24 | 0 23 | 9 55 | 0 48 | 23 20 | 1 21 | 22 1 | 21 52 | 25 37 | 14 42 | 1 54 |
| W19 | 23 28 | 21 18 | 0 16 | 17 39 | 3 57 | 12 41 | 3 4 | 24 5 | 1 1 | 14 52 | 1 7 | 4 36 | 2 20 | 15 25 | 0 23 | 9 55 | 0 48 | 23 19 | 1 21 | 22 1 | 21 52 | 25 37 | 14 43 | 1 54 |
| T 20 | 23 29 | 23 52 | 0n50 | 17 51 | 3 50 | 12 56 | 3 5 | 24 2 | 1 1 | 14 51 | 1 6 | 4 35 | 2 20 | 15 26 | 0 23 | 9 55 | 0 48 | 23 19 | 1 21 | 22 1 | 21 51 | 25 36 | 14 43 | 1 55 |
| F 21 | 23 29 | 25 21 | 1 53 | 18 5 | 3 42 | 13 11 | 3 6 | 23 59 | 1 1 | 14 50 | 1 6 | 4 33 | 2 19 | 15 27 | 0 23 | 9 56 | 0 49 | 23 19 | 1 21 | 22 1 | 21 51 | 25 36 | 14 44 | 1 55 |
| S 22 | 23 29 | 25 41 | 2 51 | 18 20 | 3 34 | 13 26 | 3 7 | 23 56 | 1 1 | 14 49 | 1 6 | 4 32 | 2 19 | 15 27 | 0 23 | 9 56 | 0 49 | 23 19 | 1 22 | 22 0 | 21 50 | 25 36 | 14 45 | 1 55 |
| S 23 | 23 28 | 24 51 | 3 41 | 18 36 | 3 25 | 13 41 | 3 8 | 23 52 | 1 2 | 14 49 | 1 6 | 4 31 | 2 19 | 15 28 | 0 23 | 9 56 | 0 49 | 23 19 | 1 22 | 22 0 | 21 50 | 25 36 | 14 46 | 1 55 |
| M24 | 23 27 | 22 54 | 4 22 | 18 53 | 3 15 | 13 56 | 3 9 | 23 48 | 1 2 | 14 48 | 1 5 | 4 30 | 2 19 | 15 29 | 0 23 | 9 56 | 0 49 | 23 19 | 1 22 | 21 59 | 21 49 | 25 36 | 14 47 | 1 55 |
| T 25 | 23 26 | 19 57 | 4 52 | 19 11 | 3 5 | 14 11 | 3 10 | 23 45 | 1 2 | 14 47 | 1 5 | 4 28 | 2 19 | 15 30 | 0 23 | 9 56 | 0 49 | 23 18 | 1 22 | 21 59 | 21 49 | 25 36 | 14 47 | 1 55 |
| W26 | 23 24 | 16 8 | 5 10 | 19 30 | 2 55 | 14 26 | 3 10 | 23 40 | 1 2 | 14 47 | 1 5 | 4 27 | 2 18 | 15 30 | 0 23 | 9 57 | 0 49 | 23 18 | 1 22 | 21 58 | 21 48 | 25 36 | 14 48 | 1 56 |
| T 27 | 23 22 | 11 38 | 5 14 | 19 49 | 2 44 | 14 41 | 3 10 | 23 36 | 1 2 | 14 46 | 1 5 | 4 25 | 2 18 | 15 31 | 0 23 | 9 57 | 0 49 | 23 18 | 1 22 | 21 58 | 21 48 | 25 36 | 14 49 | 1 56 |
| F 28 | 23 19 | 6 35 | 5 3 | 20 8 | 2 32 | 14 56 | 3 10 | 23 32 | 1 3 | 14 46 | 1 4 | 4 24 | 2 18 | 15 32 | 0 23 | 9 57 | 0 49 | 23 18 | 1 22 | 21 58 | 21 47 | 25 35 | 14 49 | 1 56 |
| S 29 | 23 16 | 1 9 | 4 37 | 20 27 | 2 20 | 15 11 | 3 10 | 23 27 | 1 3 | 14 46 | 1 4 | 4 22 | 2 18 | 15 33 | 0 23 | 9 57 | 0 49 | 23 18 | 1 22 | 21 58 | 21 47 | 25 35 | 14 50 | 1 56 |
| S 30 | 23n13 | 4s30 | 3n57 | 20n47 | 2s 8 | 15n26 | 3s10 | 23n22 | 1n 3 | 14s45 | 1n 4 | 4n21 | 2n18 | 15n33 | 0s23 | 9s58 | 0s49 | 23n18 | 1n22 | 21n58 | 21n46 | 25n35 | 14n51 | 1s56 |

Julian Day Number = 2337010.5, Delta T = 20.18 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'47, Lahiri = 19°28'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## JULY 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 37 36 | 9♋20'24 | 4♏19 | 19♊ 4 | 23♉45 | 18♋10 | 12°R59 | 24♍25 | 13♉34 | 6°R19 | 20♋21 | 9♊51 | 8♊30 | 16♋56 | 16♉13 | M 1 |
| T 2 | 18 41 33 | 10°17'34 | 18°14 | 20°29 | 24°45 | 18°49 | 12♏57 | 24°29 | 13°36 | 6♓18 | 20°22 | 9°52 | 8°27 | 17° 3 | 16°16 | T 2 |
| W 3 | 18 45 30 | 11°14'45 | 2♐34 | 21°59 | 25°44 | 19°28 | 12°56 | 24°32 | 13°38 | 6°18 | 20°24 | 9°R53 | 8°24 | 17° 9 | 16°19 | W 3 |
| T 4 | 18 49 26 | 12°11'55 | 17°19 | 23°32 | 26°44 | 20° 6 | 12°55 | 24°36 | 13°40 | 6°17 | 20°25 | 9°53 | 8°21 | 17°16 | 16°22 | T 4 |
| F 5 | 18 53 23 | 13° 9'06 | 2♑22 | 25° 9 | 27°44 | 20°45 | 12°54 | 24°40 | 13°43 | 6°16 | 20°27 | 9°52 | 8°18 | 17°23 | 16°24 | F 5 |
| S 6 | 18 57 19 | 14° 6'16 | 17°36 | 26°50 | 28°45 | 21°24 | 12°53 | 24°44 | 13°45 | 6°15 | 20°29 | 9°49 | 8°14 | 17°29 | 16°27 | S 6 |
| S 7 | 19 1 16 | 15° 3'27 | 2♒51 | 28°34 | 29°46 | 22° 2 | 12°52 | 24°48 | 13°47 | 6°14 | 20°30 | 9°45 | 8°11 | 17°36 | 16°30 | S 7 |
| M 8 | 19 5 12 | 16° 0'38 | 17°55 | 0♋21 | 0♊47 | 22°41 | 12°52 | 24°52 | 13°49 | 6°14 | 20°32 | 9°40 | 8° 8 | 17°43 | 16°32 | M 8 |
| T 9 | 19 9 9 | 16°57'50 | 2♓41 | 2°11 | 1°48 | 23°20 | 12°52 | 24°56 | 13°51 | 6°13 | 20°34 | 9°34 | 8° 5 | 17°49 | 16°35 | T 9 |
| W10 | 19 13 5 | 17°55'02 | 17° 3 | 4° 4 | 2°50 | 23°58 | 12°D52 | 25° 0 | 13°53 | 6°12 | 20°35 | 9°30 | 8° 2 | 17°56 | 16°37 | W10 |
| T 11 | 19 17 2 | 18°52'15 | 0♈56 | 6° 0 | 3°52 | 24°37 | 12°52 | 25° 5 | 13°55 | 6°11 | 20°37 | 9°27 | 7°59 | 18° 3 | 16°40 | T 11 |
| F 12 | 19 20 59 | 19°49'28 | 14°21 | 7°59 | 4°54 | 25°16 | 12°52 | 25° 9 | 13°56 | 6°10 | 20°38 | 9°D26 | 7°55 | 18° 9 | 16°42 | F 12 |
| S 13 | 19 24 55 | 20°46'42 | 27°21 | 9°59 | 5°57 | 25°54 | 12°52 | 25°13 | 13°58 | 6° 9 | 20°40 | 9°26 | 7°52 | 18°16 | 16°45 | S 13 |
| S 14 | 19 28 52 | 21°43'57 | 9♉58 | 12° 2 | 7° 0 | 26°33 | 12°53 | 25°18 | 14° 0 | 6° 8 | 20°42 | 9°27 | 7°49 | 18°23 | 16°47 | S 14 |
| M15 | 19 32 48 | 22°41'12 | 22°17 | 14° 6 | 8° 3 | 27°12 | 12°54 | 25°22 | 14° 2 | 6° 7 | 20°43 | 9°28 | 7°46 | 18°29 | 16°49 | M15 |
| T 16 | 19 36 45 | 23°38'29 | 4♊23 | 16°11 | 9° 6 | 27°50 | 12°55 | 25°27 | 14° 3 | 6° 6 | 20°45 | 9°R29 | 7°43 | 18°36 | 16°52 | T 16 |
| W17 | 19 40 41 | 24°35'46 | 16°19 | 18°18 | 10°10 | 28°29 | 12°56 | 25°32 | 14° 5 | 6° 4 | 20°46 | 9°29 | 7°39 | 18°43 | 16°54 | W17 |
| T 18 | 19 44 38 | 25°33'04 | 28°10 | 20°25 | 11°13 | 29° 7 | 12°58 | 25°37 | 14° 7 | 6° 3 | 20°48 | 9°27 | 7°36 | 18°49 | 16°56 | T 18 |
| F 19 | 19 48 34 | 26°30'22 | 9♋59 | 22°32 | 12°17 | 29°46 | 12°59 | 25°42 | 14° 8 | 6° 2 | 20°50 | 9°23 | 7°33 | 18°56 | 16°58 | F 19 |
| S 20 | 19 52 31 | 27°27'42 | 21°47 | 24°40 | 13°22 | 0♌24 | 13° 1 | 25°46 | 14°10 | 6° 1 | 20°51 | 9°17 | 7°30 | 19° 3 | 17° 0 | S 20 |
| S 21 | 19 56 28 | 28°25'02 | 3♌38 | 26°47 | 14°26 | 1° 3 | 13° 3 | 25°52 | 14°11 | 6° 0 | 20°53 | 9° 9 | 7°27 | 19° 9 | 17° 2 | S 21 |
| M22 | 20 0 24 | 29°22'22 | 15°33 | 28°53 | 15°31 | 1°41 | 13° 5 | 25°57 | 14°13 | 5°59 | 20°55 | 9° 0 | 7°24 | 19°16 | 17° 4 | M22 |
| T 23 | 20 4 21 | 0♌19'44 | 27°34 | 1♌ 0 | 16°36 | 2°20 | 13° 7 | 26° 2 | 14°14 | 5°57 | 20°56 | 8°51 | 7°20 | 19°23 | 17° 6 | T 23 |
| W24 | 20 8 17 | 1°17'06 | 9♍42 | 3° 5 | 17°41 | 2°58 | 13°10 | 26° 7 | 14°15 | 5°56 | 20°58 | 8°41 | 7°17 | 19°29 | 17° 7 | W24 |
| T 25 | 20 12 14 | 2°14'28 | 21°59 | 5° 9 | 18°46 | 3°37 | 13°12 | 26°12 | 14°17 | 5°55 | 20°59 | 8°34 | 7°14 | 19°36 | 17° 9 | T 25 |
| F 26 | 20 16 10 | 3°11'51 | 4♎28 | 7°12 | 19°51 | 4°15 | 13°15 | 26°18 | 14°18 | 5°53 | 21° 1 | 8°28 | 7°11 | 19°43 | 17°11 | F 26 |
| S 27 | 20 20 7 | 4° 9'15 | 17°11 | 9°14 | 20°57 | 4°53 | 13°18 | 26°23 | 14°19 | 5°52 | 21° 3 | 8°24 | 7° 8 | 19°50 | 17°12 | S 27 |
| S 28 | 20 24 3 | 5° 6'39 | 0♏12 | 11°14 | 22° 3 | 5°32 | 13°21 | 26°29 | 14°20 | 5°51 | 21° 4 | 8°D23 | 7° 5 | 19°56 | 17°14 | S 28 |
| M29 | 20 28 0 | 6° 4'04 | 13°33 | 13°13 | 23° 9 | 6°10 | 13°24 | 26°34 | 14°21 | 5°49 | 21° 6 | 8°23 | 7° 1 | 20° 3 | 17°16 | M29 |
| T 30 | 20 31 57 | 7° 1'30 | 27°17 | 15°11 | 24°15 | 6°49 | 13°28 | 26°40 | 14°22 | 5°48 | 21° 7 | 8°24 | 6°58 | 20°10 | 17°17 | T 30 |
| W31 | 20 35 53 | 7♌58'56 | 11♐26 | 17♌ 7 | 25♊21 | 7♌27 | 13♏32 | 26♍45 | 14♉23 | 5♓47 | 21♋ 9 | 8°R24 | 6♊55 | 20♋16 | 17♉18 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23n 9 | 10s 7 | 3n 3 | 21n 6 | 1s56 | 15n41 | 3s10 | 23n17 | 1n 3 | 14s45 | 1n 4 | 4n19 | 2n17 | 15n34 | 0s23 | 9s58 | 0s49 | 23n17 | 1n22 | 21n58 | 21n46 | 25n35 | 14n51 | 1s57 |
| T 2 | 23 5 | 15 26 | 1 56 | 21 25 | 1 43 | 15 55 | 3 10 | 23 12 | 1 3 | 14 45 | 1 3 | 4 18 | 2 17 | 15 35 | 0 23 | 9 58 | 0 49 | 23 17 | 1 22 | 21 58 | 21 45 | 25 35 | 14 52 | 1 57 |
| W 3 | 23 0 | 20 3 | 0 40 | 21 44 | 1 30 | 16 10 | 3 9 | 23 7 | 1 4 | 14 45 | 1 3 | 4 16 | 2 17 | 15 35 | 0 23 | 9 59 | 0 49 | 23 17 | 1 22 | 21 58 | 21 45 | 25 35 | 14 53 | 1 57 |
| T 4 | 22 55 | 23 33 | 0s41 | 22 2 | 1 18 | 16 24 | 3 8 | 23 1 | 1 4 | 14 44 | 1 3 | 4 14 | 2 17 | 15 36 | 0 23 | 9 59 | 0 49 | 23 17 | 1 22 | 21 58 | 21 44 | 25 34 | 14 53 | 1 57 |
| F 5 | 22 50 | 25 27 | 2 0 | 22 19 | 1 5 | 16 39 | 3 7 | 22 56 | 1 4 | 14 44 | 1 3 | 4 13 | 2 17 | 15 37 | 0 23 | 9 59 | 0 49 | 23 17 | 1 22 | 21 58 | 21 44 | 25 34 | 14 54 | 1 57 |
| S 6 | 22 44 | 25 29 | 3 11 | 22 35 | 0 52 | 16 53 | 3 6 | 22 50 | 1 4 | 14 44 | 1 2 | 4 11 | 2 17 | 15 37 | 0 23 | 9 59 | 0 49 | 23 16 | 1 22 | 21 58 | 21 43 | 25 34 | 14 55 | 1 57 |
| S 7 | 22 38 | 23 36 | 4 9 | 22 49 | 0 39 | 17 7 | 3 5 | 22 44 | 1 4 | 14 45 | 1 2 | 4 9 | 2 16 | 15 38 | 0 23 | 10 0 | 0 49 | 23 16 | 1 22 | 21 57 | 21 43 | 25 34 | 14 55 | 1 58 |
| M 8 | 22 31 | 20 4 | 4 49 | 23 2 | 0 27 | 17 21 | 3 4 | 22 38 | 1 5 | 14 45 | 1 2 | 4 8 | 2 16 | 15 38 | 0 23 | 10 0 | 0 49 | 23 16 | 1 22 | 21 56 | 21 42 | 25 34 | 14 56 | 1 58 |
| T 9 | 22 24 | 15 20 | 5 9 | 23 13 | 0 14 | 17 34 | 3 3 | 22 31 | 1 5 | 14 45 | 1 2 | 4 6 | 2 16 | 15 39 | 0 23 | 10 1 | 0 49 | 23 16 | 1 23 | 21 55 | 21 42 | 25 33 | 14 56 | 1 58 |
| W10 | 22 17 | 9 51 | 5 8 | 23 23 | 0 2 | 17 48 | 3 1 | 22 25 | 1 5 | 14 45 | 1 1 | 4 4 | 2 16 | 15 40 | 0 23 | 10 1 | 0 49 | 23 16 | 1 23 | 21 55 | 21 41 | 25 33 | 14 57 | 1 58 |
| T 11 | 22 9 | 4 3 | 4 50 | 23 30 | 0n 9 | 18 1 | 3 0 | 22 18 | 1 5 | 14 45 | 1 1 | 4 2 | 2 16 | 15 40 | 0 23 | 10 1 | 0 49 | 23 15 | 1 23 | 21 54 | 21 41 | 25 33 | 14 57 | 1 58 |
| F 12 | 22 1 | 1n45 | 4 15 | 23 35 | 0 20 | 18 14 | 2 58 | 22 11 | 1 5 | 14 46 | 1 1 | 4 0 | 2 15 | 15 41 | 0 23 | 10 2 | 0 49 | 23 15 | 1 23 | 21 54 | 21 40 | 25 33 | 14 58 | 1 59 |
| S 13 | 21 52 | 7 18 | 3 29 | 23 37 | 0 31 | 18 26 | 2 56 | 22 4 | 1 5 | 14 46 | 1 1 | 3 58 | 2 15 | 15 41 | 0 23 | 10 2 | 0 49 | 23 15 | 1 23 | 21 54 | 21 40 | 25 32 | 14 58 | 1 59 |
| S 14 | 21 43 | 12 24 | 2 33 | 23 37 | 0 41 | 18 39 | 2 55 | 21 57 | 1 6 | 14 47 | 1 0 | 3 56 | 2 15 | 15 42 | 0 23 | 10 3 | 0 49 | 23 15 | 1 23 | 21 54 | 21 39 | 25 32 | 14 59 | 1 59 |
| M15 | 21 34 | 16 53 | 1 32 | 23 34 | 0 51 | 18 51 | 2 53 | 21 50 | 1 6 | 14 47 | 1 0 | 3 54 | 2 15 | 15 42 | 0 23 | 10 3 | 0 49 | 23 15 | 1 23 | 21 55 | 21 39 | 25 32 | 14 59 | 1 59 |
| T 16 | 21 24 | 20 36 | 0 28 | 23 29 | 1 0 | 19 2 | 2 51 | 21 42 | 1 6 | 14 48 | 1 0 | 3 52 | 2 15 | 15 43 | 0 23 | 10 3 | 0 49 | 23 15 | 1 23 | 21 55 | 21 38 | 25 32 | 15 0 | 1 59 |
| W17 | 21 14 | 23 23 | 0n37 | 23 21 | 1 8 | 19 14 | 2 49 | 21 35 | 1 6 | 14 48 | 0 59 | 3 50 | 2 15 | 15 43 | 0 23 | 10 4 | 0 49 | 23 14 | 1 23 | 21 55 | 21 38 | 25 31 | 15 0 | 2 0 |
| T 18 | 21 4 | 25 7 | 1 39 | 23 10 | 1 15 | 19 25 | 2 46 | 21 27 | 1 6 | 14 49 | 0 59 | 3 48 | 2 14 | 15 44 | 0 23 | 10 4 | 0 49 | 23 14 | 1 23 | 21 54 | 21 37 | 25 31 | 15 0 | 2 0 |
| F 19 | 20 53 | 25 43 | 2 37 | 22 56 | 1 22 | 19 36 | 2 44 | 21 19 | 1 6 | 14 50 | 0 59 | 3 46 | 2 14 | 15 44 | 0 24 | 10 5 | 0 49 | 23 14 | 1 23 | 21 54 | 21 36 | 25 31 | 15 1 | 2 0 |
| S 20 | 20 42 | 25 8 | 3 28 | 22 40 | 1 28 | 19 46 | 2 42 | 21 11 | 1 6 | 14 50 | 0 59 | 3 44 | 2 14 | 15 45 | 0 24 | 10 5 | 0 49 | 23 14 | 1 23 | 21 53 | 21 36 | 25 30 | 15 1 | 2 0 |
| S 21 | 20 31 | 23 25 | 4 10 | 22 21 | 1 33 | 19 56 | 2 39 | 21 3 | 1 7 | 14 51 | 0 58 | 3 42 | 2 14 | 15 45 | 0 24 | 10 6 | 0 49 | 23 14 | 1 23 | 21 52 | 21 35 | 25 30 | 15 1 | 2 0 |
| M22 | 20 19 | 20 40 | 4 41 | 22 0 | 1 37 | 20 6 | 2 37 | 20 54 | 1 7 | 14 52 | 0 58 | 3 40 | 2 14 | 15 45 | 0 24 | 10 6 | 0 50 | 23 13 | 1 23 | 21 50 | 21 35 | 25 30 | 15 2 | 2 1 |
| T 23 | 20 7 | 17 2 | 5 0 | 21 36 | 1 40 | 20 15 | 2 34 | 20 46 | 1 7 | 14 53 | 0 58 | 3 37 | 2 14 | 15 46 | 0 24 | 10 7 | 0 50 | 23 13 | 1 23 | 21 49 | 21 34 | 25 30 | 15 2 | 2 1 |
| W24 | 19 54 | 12 40 | 5 6 | 21 11 | 1 43 | 20 24 | 2 31 | 20 37 | 1 7 | 14 54 | 0 58 | 3 35 | 2 14 | 15 46 | 0 24 | 10 7 | 0 50 | 23 13 | 1 23 | 21 47 | 21 34 | 25 29 | 15 2 | 2 1 |
| T 25 | 19 42 | 7 44 | 4 58 | 20 43 | 1 45 | 20 32 | 2 29 | 20 28 | 1 7 | 14 55 | 0 57 | 3 33 | 2 13 | 15 47 | 0 24 | 10 8 | 0 50 | 23 13 | 1 24 | 21 46 | 21 33 | 25 29 | 15 3 | 2 1 |
| F 26 | 19 29 | 2 26 | 4 35 | 20 13 | 1 46 | 20 40 | 2 26 | 20 19 | 1 7 | 14 56 | 0 57 | 3 31 | 2 13 | 15 47 | 0 24 | 10 8 | 0 50 | 23 13 | 1 24 | 21 45 | 21 33 | 25 29 | 15 3 | 2 2 |
| S 27 | 19 15 | 3s 5 | 3 59 | 19 42 | 1 47 | 20 48 | 2 23 | 20 10 | 1 7 | 14 57 | 0 57 | 3 28 | 2 13 | 15 47 | 0 24 | 10 9 | 0 50 | 23 13 | 1 24 | 21 45 | 21 32 | 25 28 | 15 3 | 2 2 |
| S 28 | 19 1 | 8 36 | 3 10 | 19 9 | 1 47 | 20 55 | 2 20 | 20 1 | 1 7 | 14 58 | 0 57 | 3 26 | 2 13 | 15 48 | 0 24 | 10 9 | 0 50 | 23 12 | 1 24 | 21 44 | 21 32 | 25 28 | 15 3 | 2 2 |
| M29 | 18 47 | 13 53 | 2 9 | 18 34 | 1 46 | 21 1 | 2 17 | 19 51 | 1 8 | 15 0 | 0 56 | 3 24 | 2 13 | 15 48 | 0 24 | 10 10 | 0 50 | 23 12 | 1 24 | 21 44 | 21 31 | 25 27 | 15 4 | 2 2 |
| T 30 | 18 33 | 18 38 | 0 59 | 17 59 | 1 45 | 21 7 | 2 14 | 19 42 | 1 8 | 15 1 | 0 56 | 3 21 | 2 13 | 15 48 | 0 24 | 10 10 | 0 50 | 23 12 | 1 24 | 21 45 | 21 31 | 25 27 | 15 4 | 2 2 |
| W31 | 18n18 | 22s28 | 0s16 | 17n22 | 1n43 | 21n13 | 2s11 | 19n32 | 1n 8 | 15s 2 | 0n56 | 3n19 | 2n13 | 15n48 | 0s24 | 10s11 | 0s50 | 23n12 | 1n24 | 21n45 | 21n30 | 25n27 | 15n 4 | 2s 3 |

Julian Day Number = 2337040.5, Delta T = 20.14 sec
Ecliptic obliquity = 23°28'51, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'51, Lahiri = 19°28'51Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## AUGUST 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 39 50 | 8♌56'23 | 25♐59 | 19♌ 1 | 26♊28 | 8♌ 5 | 13♏35 | 26♍51 | 14♉24 | 5°R45 | 21♋10 | 8°R23 | 6♊52 | 20♋23 | 17♉20 | T 1 |
| F 2 | 20 43 46 | 9°53'51 | 10♑52 | 20°54 | 27°34 | 8°44 | 13°39 | 26°57 | 14°25 | 5♓44 | 21°12 | 8♊19 | 6°49 | 20°30 | 17°21 | F 2 |
| S 3 | 20 47 43 | 10°51'20 | 26° 0 | 22°46 | 28°41 | 9°22 | 13°44 | 27° 3 | 14°26 | 5°42 | 21°13 | 8°14 | 6°45 | 20°36 | 17°22 | S 3 |
| S 4 | 20 51 39 | 11°48'50 | 11♒13 | 24°35 | 29°48 | 10° 0 | 13°48 | 27° 9 | 14°27 | 5°41 | 21°15 | 8° 6 | 6°42 | 20°43 | 17°23 | S 4 |
| M 5 | 20 55 36 | 12°46'21 | 26°20 | 26°24 | 0♋55 | 10°39 | 13°52 | 27°15 | 14°28 | 5°39 | 21°17 | 7°56 | 6°39 | 20°50 | 17°24 | M 5 |
| T 6 | 20 59 32 | 13°43'53 | 11♓13 | 28°11 | 2° 2 | 11°17 | 13°57 | 27°21 | 14°28 | 5°38 | 21°18 | 7°47 | 6°36 | 20°56 | 17°26 | T 6 |
| W 7 | 21 3 29 | 14°41'26 | 25°41 | 29°56 | 3°10 | 11°55 | 14° 2 | 27°27 | 14°29 | 5°36 | 21°20 | 7°38 | 6°33 | 21° 3 | 17°27 | W 7 |
| T 8 | 21 7 26 | 15°39'01 | 9♈42 | 1♍40 | 4°17 | 12°34 | 14° 7 | 27°33 | 14°30 | 5°35 | 21°21 | 7°32 | 6°30 | 21°10 | 17°27 | T 8 |
| F 9 | 21 11 22 | 16°36'37 | 23°12 | 3°22 | 5°25 | 13°12 | 14°12 | 27°39 | 14°30 | 5°33 | 21°23 | 7°27 | 6°26 | 21°16 | 17°28 | F 9 |
| S 10 | 21 15 19 | 17°34'15 | 6♉15 | 5° 3 | 6°33 | 13°50 | 14°17 | 27°45 | 14°31 | 5°32 | 21°24 | 7°25 | 6°23 | 21°23 | 17°29 | S 10 |
| S 11 | 21 19 15 | 18°31'54 | 18°53 | 6°42 | 7°41 | 14°28 | 14°22 | 27°51 | 14°31 | 5°30 | 21°26 | 7°D24 | 6°20 | 21°30 | 17°30 | S 11 |
| M12 | 21 23 12 | 19°29'35 | 1♊10 | 8°20 | 8°49 | 15° 7 | 14°28 | 27°58 | 14°32 | 5°29 | 21°27 | 7°R25 | 6°17 | 21°36 | 17°31 | M12 |
| T 13 | 21 27 8 | 20°27'18 | 13°14 | 9°56 | 9°58 | 15°45 | 14°34 | 28° 4 | 14°32 | 5°27 | 21°28 | 7°25 | 6°14 | 21°43 | 17°31 | T 13 |
| W14 | 21 31 5 | 21°25'02 | 25° 7 | 11°31 | 11° 6 | 16°23 | 14°39 | 28°10 | 14°32 | 5°26 | 21°30 | 7°23 | 6°11 | 21°50 | 17°32 | W14 |
| T 15 | 21 35 1 | 22°22'48 | 6♋56 | 13° 4 | 12°15 | 17° 1 | 14°45 | 28°17 | 14°33 | 5°24 | 21°31 | 7°20 | 6° 7 | 21°56 | 17°32 | T 15 |
| F 16 | 21 38 58 | 23°20'35 | 18°44 | 14°36 | 13°24 | 17°40 | 14°52 | 28°23 | 14°33 | 5°22 | 21°33 | 7°14 | 6° 4 | 22° 3 | 17°33 | F 16 |
| S 17 | 21 42 55 | 24°18'24 | 0♌35 | 16° 7 | 14°32 | 18°18 | 14°58 | 28°30 | 14°33 | 5°21 | 21°34 | 7° 5 | 6° 1 | 22°10 | 17°33 | S 17 |
| S 18 | 21 46 51 | 25°16'14 | 12°31 | 17°36 | 15°41 | 18°56 | 15° 4 | 28°37 | 14°33 | 5°19 | 21°36 | 6°53 | 5°58 | 22°17 | 17°33 | S 18 |
| M19 | 21 50 48 | 26°14'06 | 24°34 | 19° 4 | 16°51 | 19°34 | 15°11 | 28°43 | 14°33 | 5°18 | 21°37 | 6°40 | 5°55 | 22°23 | 17°34 | M19 |
| T 20 | 21 54 44 | 27°12'00 | 6♍45 | 20°30 | 18° 0 | 20°13 | 15°18 | 28°50 | 14°R33 | 5°16 | 21°38 | 6°27 | 5°51 | 22°30 | 17°34 | T 20 |
| W21 | 21 58 41 | 28° 9'55 | 19° 5 | 21°55 | 19° 9 | 20°51 | 15°25 | 28°57 | 14°33 | 5°14 | 21°40 | 6°14 | 5°48 | 22°37 | 17°34 | W21 |
| T 22 | 22 2 37 | 29° 7'51 | 1♎35 | 23°18 | 20°19 | 21°29 | 15°32 | 29° 3 | 14°33 | 5°13 | 21°41 | 6° 2 | 5°45 | 22°43 | 17°R34 | T 22 |
| F 23 | 22 6 34 | 0♍ 5'49 | 14°15 | 24°39 | 21°28 | 22° 7 | 15°39 | 29°10 | 14°33 | 5°11 | 21°42 | 5°53 | 5°42 | 22°50 | 17°34 | F 23 |
| S 24 | 22 10 30 | 1° 3'48 | 27° 7 | 25°59 | 22°38 | 22°45 | 15°46 | 29°17 | 14°33 | 5° 9 | 21°44 | 5°47 | 5°39 | 22°57 | 17°34 | S 24 |
| S 25 | 22 14 27 | 2° 1'48 | 10♏13 | 27°17 | 23°48 | 23°24 | 15°53 | 29°24 | 14°32 | 5° 8 | 21°45 | 5°44 | 5°36 | 23° 3 | 17°34 | S 25 |
| M26 | 22 18 24 | 2°59'50 | 23°34 | 28°34 | 24°58 | 24° 2 | 16° 1 | 29°31 | 14°32 | 5° 6 | 21°46 | 5°43 | 5°32 | 23°10 | 17°34 | M26 |
| T 27 | 22 22 20 | 3°57'53 | 7♐13 | 29°49 | 26° 8 | 24°40 | 16° 9 | 29°37 | 14°32 | 5° 4 | 21°47 | 5°43 | 5°29 | 23°17 | 17°33 | T 27 |
| W28 | 22 26 17 | 4°55'58 | 21°11 | 1♑ 2 | 27°18 | 25°18 | 16°16 | 29°44 | 14°31 | 5° 3 | 21°49 | 5°42 | 5°26 | 23°23 | 17°33 | W28 |
| T 29 | 22 30 13 | 5°54'04 | 5♑29 | 2°13 | 28°28 | 25°56 | 16°24 | 29°51 | 14°31 | 5° 1 | 21°50 | 5°41 | 5°23 | 23°30 | 17°33 | T 29 |
| F 30 | 22 34 10 | 6°52'12 | 20° 4 | 3°22 | 29°38 | 26°34 | 16°32 | 29°58 | 14°30 | 5° 0 | 21°51 | 5°36 | 5°20 | 23°37 | 17°32 | F 30 |
| S 31 | 22 38 6 | 7♍50'21 | 4♒53 | 4♑29 | 0♌49 | 27♌13 | 16♏41 | 0♑ 5 | 14♉30 | 4♓58 | 21♋52 | 5♊30 | 5♊17 | 23♋43 | 17♉32 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 18n 3 | 24s58 | 1s33 | 16n44 | 1n40 | 21n18 | 2s 8 | 19n22 | 1n 8 | 15s 4 | 0n56 | 3n17 | 2n12 | 15n49 | 0s24 | 10s11 | 0s50 | 23n12 | 1n24 | 21n44 | 21n30 | 25n26 | 15n 4 | 2s 3 | T 1 |
| F 2 | 17 48 | 25 46 | 2 44 | 16 5 | 1 37 | 21 23 | 2 5 | 19 12 | 1 8 | 15 5 | 0 55 | 3 14 | 2 12 | 15 49 | 0 24 | 10 12 | 0 50 | 23 12 | 1 24 | 21 44 | 21 29 | 25 26 | 15 4 | 2 3 | F 2 |
| S 3 | 17 32 | 24 40 | 3 45 | 15 26 | 1 34 | 21 27 | 2 1 | 19 2 | 1 8 | 15 7 | 0 55 | 3 12 | 2 12 | 15 49 | 0 24 | 10 12 | 0 50 | 23 11 | 1 24 | 21 43 | 21 29 | 25 26 | 15 4 | 2 3 | S 3 |
| S 4 | 17 17 | 21 47 | 4 31 | 14 45 | 1 30 | 21 31 | 1 58 | 18 52 | 1 8 | 15 8 | 0 55 | 3 9 | 2 12 | 15 49 | 0 24 | 10 13 | 0 50 | 23 11 | 1 24 | 21 42 | 21 28 | 25 25 | 15 5 | 2 4 | S 4 |
| M 5 | 17 0 | 17 24 | 4 57 | 14 4 | 1 25 | 21 34 | 1 55 | 18 42 | 1 8 | 15 10 | 0 55 | 3 7 | 2 12 | 15 50 | 0 24 | 10 14 | 0 50 | 23 11 | 1 24 | 21 40 | 21 27 | 25 25 | 15 5 | 2 4 | M 5 |
| T 6 | 16 44 | 12 2 | 5 3 | 13 23 | 1 20 | 21 37 | 1 51 | 18 31 | 1 8 | 15 11 | 0 54 | 3 4 | 2 12 | 15 50 | 0 24 | 10 14 | 0 50 | 23 11 | 1 24 | 21 39 | 21 27 | 25 24 | 15 5 | 2 4 | T 6 |
| W 7 | 16 27 | 6 8 | 4 48 | 12 41 | 1 15 | 21 39 | 1 48 | 18 20 | 1 8 | 15 13 | 0 54 | 3 2 | 2 12 | 15 50 | 0 24 | 10 15 | 0 50 | 23 11 | 1 25 | 21 37 | 21 26 | 25 24 | 15 5 | 2 4 | W 7 |
| T 8 | 16 10 | 0 6 | 4 17 | 11 59 | 1 9 | 21 40 | 1 45 | 18 10 | 1 9 | 15 15 | 0 54 | 2 59 | 2 12 | 15 50 | 0 24 | 10 15 | 0 50 | 23 11 | 1 25 | 21 36 | 21 26 | 25 23 | 15 5 | 2 4 | T 8 |
| F 9 | 15 53 | 5n45 | 3 32 | 11 17 | 1 3 | 21 41 | 1 41 | 17 59 | 1 9 | 15 16 | 0 54 | 2 57 | 2 11 | 15 50 | 0 24 | 10 16 | 0 50 | 23 10 | 1 25 | 21 36 | 21 25 | 25 23 | 15 5 | 2 5 | F 9 |
| S 10 | 15 36 | 11 9 | 2 38 | 10 34 | 0 57 | 21 42 | 1 38 | 17 48 | 1 9 | 15 18 | 0 53 | 2 54 | 2 11 | 15 51 | 0 24 | 10 16 | 0 50 | 23 10 | 1 25 | 21 35 | 21 25 | 25 23 | 15 5 | 2 5 | S 10 |
| S 11 | 15 18 | 15 55 | 1 37 | 9 51 | 0 51 | 21 41 | 1 34 | 17 37 | 1 9 | 15 20 | 0 53 | 2 52 | 2 11 | 15 51 | 0 24 | 10 17 | 0 50 | 23 10 | 1 25 | 21 35 | 21 24 | 25 22 | 15 5 | 2 5 | S 11 |
| M12 | 15 0 | 19 53 | 0 33 | 9 8 | 0 44 | 21 41 | 1 31 | 17 26 | 1 9 | 15 22 | 0 53 | 2 49 | 2 11 | 15 51 | 0 24 | 10 18 | 0 50 | 23 10 | 1 25 | 21 35 | 21 24 | 25 22 | 15 5 | 2 5 | M12 |
| T 13 | 14 42 | 22 56 | 0n31 | 8 25 | 0 37 | 21 40 | 1 27 | 17 14 | 1 9 | 15 24 | 0 53 | 2 46 | 2 11 | 15 51 | 0 24 | 10 18 | 0 50 | 23 10 | 1 25 | 21 35 | 21 23 | 25 21 | 15 5 | 2 6 | T 13 |
| W14 | 14 23 | 24 56 | 1 33 | 7 42 | 0 29 | 21 38 | 1 23 | 17 3 | 1 9 | 15 26 | 0 53 | 2 44 | 2 11 | 15 51 | 0 24 | 10 19 | 0 50 | 23 10 | 1 25 | 21 35 | 21 23 | 25 21 | 15 5 | 2 6 | W14 |
| T 15 | 14 5 | 25 48 | 2 30 | 7 0 | 0 22 | 21 35 | 1 20 | 16 51 | 1 9 | 15 28 | 0 52 | 2 41 | 2 11 | 15 51 | 0 24 | 10 19 | 0 50 | 23 9 | 1 25 | 21 34 | 21 22 | 25 20 | 15 5 | 2 6 | T 15 |
| F 16 | 13 46 | 25 28 | 3 20 | 6 17 | 0 14 | 21 32 | 1 16 | 16 40 | 1 9 | 15 30 | 0 52 | 2 38 | 2 11 | 15 51 | 0 24 | 10 20 | 0 50 | 23 9 | 1 25 | 21 33 | 21 21 | 25 20 | 15 5 | 2 6 | F 16 |
| S 17 | 13 27 | 24 0 | 4 2 | 5 34 | 0 6 | 21 29 | 1 13 | 16 28 | 1 9 | 15 32 | 0 52 | 2 36 | 2 11 | 15 51 | 0 24 | 10 21 | 0 50 | 23 9 | 1 25 | 21 32 | 21 21 | 25 19 | 15 4 | 2 6 | S 17 |
| S 18 | 13 7 | 21 27 | 4 34 | 4 52 | 0s 2 | 21 25 | 1 9 | 16 16 | 1 9 | 15 34 | 0 52 | 2 33 | 2 11 | 15 51 | 0 24 | 10 21 | 0 50 | 23 9 | 1 25 | 21 30 | 21 20 | 25 19 | 15 4 | 2 7 | S 18 |
| M19 | 12 48 | 17 58 | 4 53 | 4 10 | 0 11 | 21 20 | 1 5 | 16 4 | 1 9 | 15 36 | 0 51 | 2 30 | 2 10 | 15 51 | 0 24 | 10 22 | 0 50 | 23 9 | 1 25 | 21 28 | 21 20 | 25 18 | 15 4 | 2 7 | M19 |
| T 20 | 12 28 | 13 41 | 5 0 | 3 29 | 0 19 | 21 15 | 1 2 | 15 52 | 1 9 | 15 38 | 0 51 | 2 28 | 2 10 | 15 51 | 0 24 | 10 22 | 0 50 | 23 9 | 1 26 | 21 25 | 21 19 | 25 18 | 15 4 | 2 7 | T 20 |
| W21 | 12 8 | 8 49 | 4 53 | 2 47 | 0 28 | 21 9 | 0 58 | 15 40 | 1 9 | 15 40 | 0 51 | 2 25 | 2 10 | 15 51 | 0 24 | 10 23 | 0 50 | 23 9 | 1 26 | 21 23 | 21 19 | 25 17 | 15 4 | 2 7 | W21 |
| T 22 | 11 48 | 3 31 | 4 31 | 2 6 | 0 37 | 21 3 | 0 54 | 15 28 | 1 9 | 15 43 | 0 51 | 2 22 | 2 10 | 15 51 | 0 24 | 10 24 | 0 50 | 23 9 | 1 26 | 21 21 | 21 18 | 25 17 | 15 4 | 2 8 | T 22 |
| F 23 | 11 27 | 2s 0 | 3 56 | 1 26 | 0 45 | 20 56 | 0 51 | 15 15 | 1 10 | 15 45 | 0 51 | 2 19 | 2 10 | 15 51 | 0 24 | 10 24 | 0 50 | 23 8 | 1 26 | 21 20 | 21 18 | 25 16 | 15 3 | 2 8 | F 23 |
| S 24 | 11 7 | 7 32 | 3 9 | 0 46 | 0 54 | 20 48 | 0 47 | 15 3 | 1 10 | 15 47 | 0 50 | 2 17 | 2 10 | 15 51 | 0 24 | 10 25 | 0 50 | 23 8 | 1 26 | 21 19 | 21 17 | 25 15 | 15 3 | 2 8 | S 24 |
| S 25 | 10 46 | 12 51 | 2 10 | 0 7 | 1 3 | 20 40 | 0 44 | 14 50 | 1 10 | 15 49 | 0 50 | 2 14 | 2 10 | 15 51 | 0 24 | 10 25 | 0 50 | 23 8 | 1 26 | 21 18 | 21 16 | 25 15 | 15 3 | 2 8 | S 25 |
| M26 | 10 25 | 17 40 | 1 4 | 0s32 | 1 12 | 20 31 | 0 40 | 14 38 | 1 10 | 15 52 | 0 50 | 2 11 | 2 10 | 15 51 | 0 24 | 10 26 | 0 50 | 23 8 | 1 26 | 21 18 | 21 16 | 25 14 | 15 3 | 2 9 | M26 |
| T 27 | 10 4 | 21 41 | 0s 8 | 1 10 | 1 21 | 20 22 | 0 36 | 14 25 | 1 10 | 15 54 | 0 50 | 2 8 | 2 10 | 15 51 | 0 24 | 10 27 | 0 50 | 23 8 | 1 26 | 21 18 | 21 15 | 25 14 | 15 2 | 2 9 | T 27 |
| W28 | 9 43 | 24 32 | 1 21 | 1 47 | 1 30 | 20 12 | 0 33 | 14 12 | 1 10 | 15 57 | 0 49 | 2 5 | 2 10 | 15 51 | 0 24 | 10 27 | 0 50 | 23 8 | 1 26 | 21 18 | 21 15 | 25 13 | 15 2 | 2 9 | W28 |
| T 29 | 9 22 | 25 52 | 2 30 | 2 24 | 1 39 | 20 2 | 0 29 | 13 59 | 1 10 | 15 59 | 0 49 | 2 2 | 2 10 | 15 50 | 0 24 | 10 28 | 0 50 | 23 8 | 1 26 | 21 17 | 21 14 | 25 13 | 15 2 | 2 9 | T 29 |
| F 30 | 9 0 | 25 28 | 3 31 | 3 0 | 1 48 | 19 51 | 0 26 | 13 46 | 1 10 | 16 2 | 0 49 | 2 0 | 2 10 | 15 50 | 0 24 | 10 29 | 0 50 | 23 8 | 1 26 | 21 17 | 21 14 | 25 12 | 15 1 | 2 9 | F 30 |
| S 31 | 8n39 | 23s16 | 4s19 | 3s35 | 1s57 | 19n39 | 0s22 | 13n33 | 1n10 | 16s 4 | 0n49 | 1n57 | 2n10 | 15n50 | 0s24 | 10s29 | 0s50 | 23n 7 | 1n27 | 21n15 | 21n13 | 25n11 | 15n 1 | 2s10 | S 31 |

Julian Day Number = 2337071.5, Delta T = 20.10 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'55, Lahiri = 19°28'56Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## SEPTEMBER 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 42 3 | 8♍48'31 | 19♒50 | 5♎34 | 1♌59 | 27♌51 | 16♏49 | 0♎12 | 14°R29 | 4°R56 | 21♋54 | 5°R20 | 5♊13 | 23♋50 | 17°R31 | S 1 |
| M 2 | 22 45 59 | 9°46'44 | 4♓44 | 6°37 | 3°10 | 28°29 | 16°57 | 0°20 | 14♉29 | 4♓55 | 21°55 | 5♊ 9 | 5°10 | 23°57 | 17♉30 | M 2 |
| T 3 | 22 49 56 | 10°44'57 | 19°28 | 7°37 | 4°21 | 29° 7 | 17° 6 | 0°27 | 14°28 | 4°53 | 21°56 | 4°58 | 5° 7 | 24° 4 | 17°30 | T 3 |
| W 4 | 22 53 53 | 11°43'13 | 3♈52 | 8°35 | 5°32 | 29°45 | 17°14 | 0°34 | 14°27 | 4°51 | 21°57 | 4°47 | 5° 4 | 24°10 | 17°29 | W 4 |
| T 5 | 22 57 49 | 12°41'31 | 17°52 | 9°30 | 6°43 | 0♍23 | 17°23 | 0°41 | 14°27 | 4°50 | 21°58 | 4°39 | 5° 1 | 24°17 | 17°28 | T 5 |
| F 6 | 23 1 46 | 13°39'50 | 1♉25 | 10°21 | 7°54 | 1° 1 | 17°32 | 0°48 | 14°26 | 4°48 | 21°59 | 4°33 | 4°57 | 24°24 | 17°27 | F 6 |
| S 7 | 23 5 42 | 14°38'12 | 14°30 | 11°10 | 9° 5 | 1°40 | 17°41 | 0°55 | 14°25 | 4°46 | 22° 0 | 4°29 | 4°54 | 24°30 | 17°26 | S 7 |
| S 8 | 23 9 39 | 15°36'36 | 27°10 | 11°56 | 10°16 | 2°18 | 17°50 | 1° 3 | 14°24 | 4°45 | 22° 1 | 4°28 | 4°51 | 24°37 | 17°25 | S 8 |
| M 9 | 23 13 35 | 16°35'02 | 9♊30 | 12°37 | 11°28 | 2°56 | 17°59 | 1°10 | 14°23 | 4°43 | 22° 2 | 4°D28 | 4°48 | 24°44 | 17°24 | M 9 |
| T 10 | 23 17 32 | 17°33'30 | 21°35 | 13°15 | 12°39 | 3°34 | 18° 9 | 1°17 | 14°22 | 4°42 | 22° 3 | 4°R28 | 4°45 | 24°50 | 17°23 | T 10 |
| W11 | 23 21 28 | 18°32'00 | 3♋29 | 13°49 | 13°51 | 4°12 | 18°18 | 1°24 | 14°21 | 4°40 | 22° 5 | 4°27 | 4°42 | 24°57 | 17°22 | W11 |
| T 12 | 23 25 25 | 19°30'33 | 15°19 | 14°18 | 15° 2 | 4°50 | 18°28 | 1°32 | 14°20 | 4°38 | 22° 5 | 4°24 | 4°38 | 25° 4 | 17°21 | T 12 |
| F 13 | 23 29 22 | 20°29'08 | 27° 9 | 14°42 | 16°14 | 5°28 | 18°37 | 1°39 | 14°19 | 4°37 | 22° 6 | 4°19 | 4°35 | 25°10 | 17°19 | F 13 |
| S 14 | 23 33 18 | 21°27'44 | 9♌ 3 | 15° 1 | 17°26 | 6° 6 | 18°47 | 1°46 | 14°18 | 4°35 | 22° 7 | 4°11 | 4°32 | 25°17 | 17°18 | S 14 |
| S 15 | 23 37 15 | 22°26'23 | 21° 5 | 15°15 | 18°38 | 6°45 | 18°57 | 1°54 | 14°16 | 4°34 | 22° 8 | 4° 1 | 4°29 | 25°24 | 17°17 | S 15 |
| M16 | 23 41 11 | 23°25'04 | 3♍16 | 15°23 | 19°50 | 7°23 | 19° 7 | 2° 1 | 14°15 | 4°32 | 22° 9 | 3°49 | 4°26 | 25°31 | 17°15 | M16 |
| T 17 | 23 45 8 | 24°23'47 | 15°40 | 15°R24 | 21° 2 | 8° 1 | 19°17 | 2° 8 | 14°14 | 4°31 | 22°10 | 3°36 | 4°22 | 25°37 | 17°14 | T 17 |
| W18 | 23 49 4 | 25°22'32 | 28°15 | 15°19 | 22°14 | 8°39 | 19°27 | 2°16 | 14°12 | 4°29 | 22°11 | 3°24 | 4°19 | 25°44 | 17°12 | W18 |
| T 19 | 23 53 1 | 26°21'19 | 11♎ 3 | 15° 7 | 23°26 | 9°17 | 19°37 | 2°23 | 14°11 | 4°28 | 22°12 | 3°13 | 4°16 | 25°51 | 17°10 | T 19 |
| F 20 | 23 56 57 | 27°20'08 | 24° 2 | 14°47 | 24°39 | 9°55 | 19°48 | 2°30 | 14° 9 | 4°26 | 22°13 | 3° 5 | 4°13 | 25°57 | 17° 9 | F 20 |
| S 21 | 0 0 54 | 28°18'59 | 7♏12 | 14°21 | 25°51 | 10°33 | 19°58 | 2°38 | 14° 8 | 4°25 | 22°13 | 3° 0 | 4°10 | 26° 4 | 17° 7 | S 21 |
| S 22 | 0 4 50 | 29°17'52 | 20°34 | 13°46 | 27° 4 | 11°11 | 20° 9 | 2°45 | 14° 6 | 4°23 | 22°14 | 2°57 | 4° 7 | 26°11 | 17° 5 | S 22 |
| M23 | 0 8 47 | 0♎16'47 | 4♐ 6 | 13° 5 | 28°16 | 11°50 | 20°19 | 2°53 | 14° 5 | 4°22 | 22°15 | 2°D56 | 4° 3 | 26°17 | 17° 3 | M23 |
| T 24 | 0 12 44 | 1°15'43 | 17°50 | 12°17 | 29°29 | 12°28 | 20°30 | 3° 0 | 14° 3 | 4°20 | 22°16 | 2°57 | 4° 0 | 26°24 | 17° 1 | T 24 |
| W25 | 0 16 40 | 2°14'41 | 1♑45 | 11°22 | 0♍42 | 13° 6 | 20°41 | 3° 8 | 14° 2 | 4°19 | 22°16 | 2°R57 | 3°57 | 26°31 | 17° 0 | W25 |
| T 26 | 0 20 37 | 3°13'41 | 15°53 | 10°22 | 1°54 | 13°44 | 20°52 | 3°15 | 14° 0 | 4°17 | 22°17 | 2°57 | 3°54 | 26°37 | 16°58 | T 26 |
| F 27 | 0 24 33 | 4°12'43 | 0♒12 | 9°17 | 3° 7 | 14°22 | 21° 3 | 3°22 | 13°58 | 4°16 | 22°18 | 2°54 | 3°51 | 26°44 | 16°55 | F 27 |
| S 28 | 0 28 30 | 5°11'46 | 14°39 | 8° 9 | 4°20 | 15° 0 | 21°14 | 3°30 | 13°56 | 4°15 | 22°18 | 2°49 | 3°48 | 26°51 | 16°53 | S 28 |
| S 29 | 0 32 26 | 6°10'51 | 29°10 | 7° 0 | 5°33 | 15°38 | 21°25 | 3°37 | 13°55 | 4°13 | 22°19 | 2°42 | 3°44 | 26°58 | 16°51 | S 29 |
| M30 | 0 36 23 | 7♎ 9'58 | 13♓39 | 5♎51 | 6♍46 | 16♍16 | 21♏36 | 3♎45 | 13♉53 | 4♓12 | 22♋20 | 2♊33 | 3♊41 | 27♋ 4 | 16♉49 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n17 | 19s28 | 4s50 | 4s 9 | 2s 6 | 19n27 | 0s19 | 13n20 | 1n10 | 16s 7 | 0n49 | 1n54 | 2n10 | 15n50 | 0s24 | 10s30 | 0s50 | 23n 7 | 1n27 | 21n14 | 21n13 | 25n11 | 15n 1 | 2s10 |
| M 2 | 7 55 | 14 27 | 5 0 | 4 42 | 2 15 | 19 14 | 0 15 | 13 7 | 1 10 | 16 9 | 0 48 | 1 51 | 2 10 | 15 50 | 0 24 | 10 30 | 0 50 | 23 7 | 1 27 | 21 12 | 21 12 | 25 10 | 15 0 | 2 10 |
| T 3 | 7 33 | 8 38 | 4 51 | 5 14 | 2 24 | 19 1 | 0 12 | 12 53 | 1 10 | 16 12 | 0 48 | 1 48 | 2 10 | 15 49 | 0 24 | 10 31 | 0 50 | 23 7 | 1 27 | 21 10 | 21 11 | 25 10 | 15 0 | 2 10 |
| W 4 | 7 11 | 2 29 | 4 23 | 5 44 | 2 32 | 18 47 | 0 8 | 12 40 | 1 10 | 16 15 | 0 48 | 1 45 | 2 10 | 15 49 | 0 24 | 10 32 | 0 50 | 23 7 | 1 27 | 21 8 | 21 11 | 25 9 | 14 59 | 2 11 |
| T 5 | 6 48 | 3n38 | 3 40 | 6 14 | 2 41 | 18 33 | 0 5 | 12 27 | 1 10 | 16 17 | 0 48 | 1 42 | 2 9 | 15 49 | 0 24 | 10 32 | 0 50 | 23 7 | 1 27 | 21 6 | 21 10 | 25 8 | 14 59 | 2 11 |
| F 6 | 6 26 | 9 24 | 2 45 | 6 42 | 2 49 | 18 18 | 0 1 | 12 13 | 1 10 | 16 20 | 0 48 | 1 40 | 2 9 | 15 49 | 0 24 | 10 33 | 0 50 | 23 7 | 1 27 | 21 5 | 21 10 | 25 8 | 14 58 | 2 11 |
| S 7 | 6 4 | 14 34 | 1 44 | 7 8 | 2 57 | 18 3 | 0n 2 | 11 59 | 1 10 | 16 23 | 0 47 | 1 37 | 2 9 | 15 48 | 0 24 | 10 33 | 0 50 | 23 7 | 1 27 | 21 5 | 21 9 | 25 7 | 14 58 | 2 11 |
| S 8 | 5 41 | 18 56 | 0 39 | 7 33 | 3 5 | 17 47 | 0 5 | 11 46 | 1 10 | 16 25 | 0 47 | 1 34 | 2 9 | 15 48 | 0 24 | 10 34 | 0 50 | 23 7 | 1 27 | 21 4 | 21 9 | 25 6 | 14 57 | 2 11 |
| M 9 | 5 18 | 22 21 | 0n27 | 7 56 | 3 12 | 17 31 | 0 8 | 11 32 | 1 10 | 16 28 | 0 47 | 1 31 | 2 9 | 15 48 | 0 24 | 10 35 | 0 50 | 23 7 | 1 27 | 21 4 | 21 8 | 25 6 | 14 57 | 2 12 |
| T 10 | 4 55 | 24 42 | 1 29 | 8 18 | 3 19 | 17 14 | 0 12 | 11 18 | 1 10 | 16 31 | 0 47 | 1 28 | 2 9 | 15 48 | 0 24 | 10 35 | 0 50 | 23 7 | 1 27 | 21 4 | 21 7 | 25 5 | 14 56 | 2 12 |
| W11 | 4 33 | 25 53 | 2 27 | 8 37 | 3 26 | 16 56 | 0 15 | 11 4 | 1 10 | 16 34 | 0 47 | 1 25 | 2 9 | 15 47 | 0 24 | 10 36 | 0 50 | 23 7 | 1 28 | 21 4 | 21 7 | 25 4 | 14 56 | 2 12 |
| T 12 | 4 10 | 25 53 | 3 19 | 8 54 | 3 32 | 16 38 | 0 18 | 10 50 | 1 10 | 16 36 | 0 47 | 1 22 | 2 9 | 15 47 | 0 24 | 10 36 | 0 50 | 23 6 | 1 28 | 21 4 | 21 6 | 25 4 | 14 55 | 2 12 |
| F 13 | 3 47 | 24 42 | 4 1 | 9 8 | 3 37 | 16 20 | 0 21 | 10 36 | 1 10 | 16 39 | 0 46 | 1 19 | 2 9 | 15 47 | 0 24 | 10 37 | 0 50 | 23 6 | 1 28 | 21 3 | 21 6 | 25 3 | 14 55 | 2 13 |
| S 14 | 3 23 | 22 25 | 4 33 | 9 20 | 3 42 | 16 1 | 0 24 | 10 22 | 1 10 | 16 42 | 0 46 | 1 16 | 2 9 | 15 46 | 0 24 | 10 38 | 0 50 | 23 6 | 1 28 | 21 1 | 21 5 | 25 2 | 14 54 | 2 13 |
| S 15 | 3 0 | 19 8 | 4 54 | 9 29 | 3 46 | 15 42 | 0 27 | 10 8 | 1 10 | 16 45 | 0 46 | 1 13 | 2 9 | 15 46 | 0 24 | 10 38 | 0 50 | 23 6 | 1 28 | 20 59 | 21 4 | 25 2 | 14 54 | 2 13 |
| M16 | 2 37 | 15 0 | 5 1 | 9 35 | 3 49 | 15 22 | 0 30 | 9 54 | 1 10 | 16 48 | 0 46 | 1 10 | 2 9 | 15 45 | 0 24 | 10 39 | 0 50 | 23 6 | 1 28 | 20 57 | 21 4 | 25 1 | 14 53 | 2 13 |
| T 17 | 2 14 | 10 11 | 4 55 | 9 38 | 3 52 | 15 2 | 0 33 | 9 39 | 1 10 | 16 51 | 0 46 | 1 7 | 2 9 | 15 45 | 0 24 | 10 39 | 0 50 | 23 6 | 1 28 | 20 55 | 21 3 | 25 0 | 14 52 | 2 13 |
| W18 | 1 50 | 4 53 | 4 34 | 9 37 | 3 53 | 14 41 | 0 36 | 9 25 | 1 10 | 16 54 | 0 45 | 1 5 | 2 9 | 15 45 | 0 24 | 10 40 | 0 50 | 23 6 | 1 28 | 20 52 | 21 3 | 24 59 | 14 52 | 2 14 |
| T 19 | 1 27 | 0s43 | 3 59 | 9 32 | 3 53 | 14 20 | 0 39 | 9 11 | 1 10 | 16 57 | 0 45 | 1 2 | 2 9 | 15 44 | 0 24 | 10 40 | 0 50 | 23 6 | 1 28 | 20 50 | 21 2 | 24 59 | 14 51 | 2 14 |
| F 20 | 1 4 | 6 22 | 3 11 | 9 23 | 3 51 | 13 59 | 0 42 | 8 56 | 1 10 | 17 0 | 0 45 | 0 59 | 2 9 | 15 44 | 0 24 | 10 41 | 0 50 | 23 6 | 1 28 | 20 49 | 21 2 | 24 58 | 14 50 | 2 14 |
| S 21 | 0 40 | 11 51 | 2 13 | 9 10 | 3 49 | 13 37 | 0 44 | 8 42 | 1 10 | 17 3 | 0 45 | 0 56 | 2 9 | 15 43 | 0 24 | 10 41 | 0 50 | 23 6 | 1 29 | 20 48 | 21 1 | 24 57 | 14 50 | 2 14 |
| S 22 | 0 17 | 16 52 | 1 6 | 8 53 | 3 44 | 13 15 | 0 47 | 8 27 | 1 10 | 17 6 | 0 45 | 0 53 | 2 9 | 15 43 | 0 24 | 10 42 | 0 50 | 23 6 | 1 29 | 20 47 | 21 0 | 24 56 | 14 49 | 2 15 |
| M23 | 0s 7 | 21 6 | 0s 6 | 8 31 | 3 38 | 12 52 | 0 49 | 8 13 | 1 10 | 17 9 | 0 45 | 0 50 | 2 9 | 15 42 | 0 24 | 10 42 | 0 50 | 23 6 | 1 29 | 20 47 | 21 0 | 24 56 | 14 48 | 2 15 |
| T 24 | 0 30 | 24 14 | 1 19 | 8 5 | 3 30 | 12 29 | 0 52 | 7 58 | 1 9 | 17 12 | 0 44 | 0 47 | 2 9 | 15 42 | 0 24 | 10 43 | 0 50 | 23 6 | 1 29 | 20 47 | 20 59 | 24 55 | 14 48 | 2 15 |
| W25 | 0 54 | 25 56 | 2 28 | 7 34 | 3 20 | 12 6 | 0 54 | 7 43 | 1 9 | 17 15 | 0 44 | 0 44 | 2 9 | 15 41 | 0 24 | 10 44 | 0 50 | 23 6 | 1 29 | 20 47 | 20 59 | 24 54 | 14 47 | 2 15 |
| T 26 | 1 17 | 25 59 | 3 28 | 6 59 | 3 8 | 11 42 | 0 57 | 7 29 | 1 9 | 17 18 | 0 44 | 0 41 | 2 9 | 15 41 | 0 24 | 10 44 | 0 50 | 23 6 | 1 29 | 20 47 | 20 58 | 24 53 | 14 46 | 2 15 |
| F 27 | 1 41 | 24 20 | 4 17 | 6 21 | 2 54 | 11 18 | 0 59 | 7 14 | 1 9 | 17 21 | 0 44 | 0 38 | 2 9 | 15 40 | 0 24 | 10 45 | 0 50 | 23 6 | 1 29 | 20 46 | 20 57 | 24 52 | 14 45 | 2 16 |
| S 28 | 2 4 | 21 5 | 4 50 | 5 40 | 2 39 | 10 53 | 1 1 | 6 59 | 1 9 | 17 24 | 0 44 | 0 35 | 2 9 | 15 40 | 0 24 | 10 45 | 0 50 | 23 6 | 1 29 | 20 46 | 20 57 | 24 52 | 14 44 | 2 16 |
| S 29 | 2 28 | 16 32 | 5 4 | 4 57 | 2 22 | 10 29 | 1 4 | 6 44 | 1 9 | 17 27 | 0 44 | 0 32 | 2 10 | 15 39 | 0 24 | 10 46 | 0 50 | 23 6 | 1 29 | 20 44 | 20 56 | 24 51 | 14 44 | 2 16 |
| M30 | 2s51 | 11s 3 | 4s59 | 4s13 | 2s 3 | 10n 4 | 1n 6 | 6n29 | 1n 9 | 17s30 | 0n43 | 0n29 | 2n10 | 15n39 | 0s24 | 10s46 | 0s50 | 23n 6 | 1n29 | 20n42 | 20n56 | 24n50 | 14n43 | 2s16 |

Julian Day Number = 2337102.5, Delta T = 20.05 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°21'59, Lahiri = 19°29'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## OCTOBER 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 40 20 | 8♎ 9'07 | 28♓ 0 | 4°R44 | 7♍59 | 16♍54 | 21♏47 | 3♎52 | 13°R51 | 4°R11 | 22♋20 | 2°R24 | 3♊38 | 27♋11 | 16°R47 | T 1 |
| W 2 | 0 44 16 | 9° 8'17 | 12♈ 7 | 3♎41 | 9°12 | 17°33 | 21°59 | 3°59 | 13♉49 | 4♓ 9 | 22°21 | 2♊16 | 3°35 | 27°18 | 16♉44 | W 2 |
| T 3 | 0 48 13 | 10° 7'30 | 25°55 | 2°44 | 10°26 | 18°11 | 22°10 | 4° 7 | 13°47 | 4° 8 | 22°21 | 2° 9 | 3°32 | 27°24 | 16°42 | T 3 |
| F 4 | 0 52 9 | 11° 6'45 | 9♉20 | 1°55 | 11°39 | 18°49 | 22°22 | 4°14 | 13°45 | 4° 7 | 22°22 | 2° 5 | 3°28 | 27°31 | 16°40 | F 4 |
| S 5 | 0 56 6 | 12° 6'03 | 22°23 | 1°14 | 12°52 | 19°27 | 22°33 | 4°21 | 13°43 | 4° 6 | 22°22 | 2° 2 | 3°25 | 27°38 | 16°37 | S 5 |
| S 6 | 1 0 2 | 13° 5'22 | 5♊ 3 | 0°43 | 14° 6 | 20° 5 | 22°45 | 4°29 | 13°41 | 4° 5 | 22°23 | 2°D 2 | 3°22 | 27°44 | 16°35 | S 6 |
| M 7 | 1 3 59 | 14° 4'44 | 17°24 | 0°23 | 15°19 | 20°43 | 22°56 | 4°36 | 13°39 | 4° 3 | 22°23 | 2° 3 | 3°19 | 27°51 | 16°32 | M 7 |
| T 8 | 1 7 55 | 15° 4'08 | 29°31 | 0°D14 | 16°33 | 21°21 | 23° 8 | 4°44 | 13°37 | 4° 2 | 22°23 | 2° 4 | 3°16 | 27°58 | 16°30 | T 8 |
| W 9 | 1 11 52 | 16° 3'35 | 11♋27 | 0°15 | 17°47 | 21°59 | 23°20 | 4°51 | 13°35 | 4° 1 | 22°24 | 2°R 5 | 3°13 | 28° 5 | 16°27 | W 9 |
| T 10 | 1 15 48 | 17° 3'04 | 23°18 | 0°27 | 19° 0 | 22°38 | 23°32 | 4°58 | 13°33 | 4° 0 | 22°24 | 2° 5 | 3° 9 | 28°11 | 16°25 | T 10 |
| F 11 | 1 19 45 | 18° 2'35 | 5♌10 | 0°50 | 20°14 | 23°16 | 23°44 | 5° 5 | 13°31 | 3°59 | 22°24 | 2° 3 | 3° 6 | 28°18 | 16°22 | F 11 |
| S 12 | 1 23 42 | 19° 2'08 | 17° 6 | 1°22 | 21°28 | 23°54 | 23°56 | 5°13 | 13°28 | 3°58 | 22°25 | 1°59 | 3° 3 | 28°25 | 16°19 | S 12 |
| S 13 | 1 27 38 | 20° 1'44 | 29°12 | 2° 4 | 22°42 | 24°32 | 24° 8 | 5°20 | 13°26 | 3°57 | 22°25 | 1°54 | 3° 0 | 28°31 | 16°16 | S 13 |
| M14 | 1 31 35 | 21° 1'22 | 11♍30 | 2°54 | 23°56 | 25°10 | 24°20 | 5°27 | 13°24 | 3°56 | 22°25 | 1°47 | 2°57 | 28°38 | 16°14 | M14 |
| T 15 | 1 35 31 | 22° 1'02 | 24° 3 | 3°51 | 25°10 | 25°48 | 24°32 | 5°34 | 13°22 | 3°55 | 22°26 | 1°40 | 2°54 | 28°45 | 16°11 | T 15 |
| W16 | 1 39 28 | 23° 0'44 | 6♎52 | 4°56 | 26°24 | 26°26 | 24°45 | 5°42 | 13°19 | 3°54 | 22°26 | 1°33 | 2°50 | 28°51 | 16° 8 | W16 |
| T 17 | 1 43 24 | 24° 0'28 | 19°58 | 6° 6 | 27°38 | 27° 5 | 24°57 | 5°49 | 13°17 | 3°53 | 22°26 | 1°27 | 2°47 | 28°58 | 16° 5 | T 17 |
| F 18 | 1 47 21 | 25° 0'14 | 3♏20 | 7°21 | 28°52 | 27°43 | 25° 9 | 5°56 | 13°15 | 3°52 | 22°26 | 1°22 | 2°44 | 29° 5 | 16° 2 | F 18 |
| S 19 | 1 51 17 | 26° 0'03 | 16°54 | 8°40 | 0♎ 6 | 28°21 | 25°22 | 6° 3 | 13°12 | 3°51 | 22°26 | 1°20 | 2°41 | 29°11 | 15°59 | S 19 |
| S 20 | 1 55 14 | 26°59'53 | 0♐40 | 10° 4 | 1°21 | 28°59 | 25°34 | 6°10 | 13°10 | 3°50 | 22°26 | 1°D19 | 2°38 | 29°18 | 15°56 | S 20 |
| M21 | 1 59 11 | 27°59'45 | 14°35 | 11°30 | 2°35 | 29°37 | 25°47 | 6°17 | 13° 8 | 3°50 | 22°26 | 1°19 | 2°34 | 29°25 | 15°53 | M21 |
| T 22 | 2 3 7 | 28°59'39 | 28°37 | 12°59 | 3°49 | 0♎15 | 26° 0 | 6°24 | 13° 5 | 3°49 | 22°26 | 1°21 | 2°31 | 29°32 | 15°50 | T 22 |
| W23 | 2 7 4 | 29°59'34 | 12♑43 | 14°31 | 5° 4 | 0°54 | 26°12 | 6°31 | 13° 3 | 3°48 | 22°R26 | 1°22 | 2°28 | 29°38 | 15°47 | W23 |
| T 24 | 2 11 0 | 0♏59'32 | 26°52 | 16° 4 | 6°18 | 1°32 | 26°25 | 6°38 | 13° 1 | 3°47 | 22°26 | 1°R23 | 2°25 | 29°45 | 15°44 | T 24 |
| F 25 | 2 14 57 | 1°59'30 | 11♒ 3 | 17°38 | 7°32 | 2°10 | 26°38 | 6°45 | 12°58 | 3°47 | 22°26 | 1°23 | 2°22 | 29°52 | 15°41 | F 25 |
| S 26 | 2 18 53 | 2°59'31 | 25°13 | 19°14 | 8°47 | 2°48 | 26°50 | 6°52 | 12°56 | 3°46 | 22°26 | 1°21 | 2°19 | 29°58 | 15°38 | S 26 |
| S 27 | 2 22 50 | 3°59'33 | 9♓20 | 20°50 | 10° 1 | 3°26 | 27° 3 | 6°59 | 12°53 | 3°45 | 22°26 | 1°18 | 2°15 | 0♌ 5 | 15°35 | S 27 |
| M28 | 2 26 46 | 4°59'36 | 23°21 | 22°27 | 11°16 | 4° 4 | 27°16 | 7° 6 | 12°51 | 3°45 | 22°26 | 1°15 | 2°12 | 0°12 | 15°32 | M28 |
| T 29 | 2 30 43 | 5°59'41 | 7♈14 | 24° 5 | 12°31 | 4°43 | 27°29 | 7°13 | 12°48 | 3°44 | 22°26 | 1°11 | 2° 9 | 0°19 | 15°29 | T 29 |
| W30 | 2 34 40 | 6°59'48 | 20°54 | 25°43 | 13°45 | 5°21 | 27°42 | 7°20 | 12°46 | 3°44 | 22°26 | 1° 7 | 2° 6 | 0°25 | 15°26 | W30 |
| T 31 | 2 38 36 | 7♏59'56 | 4♉19 | 27♎21 | 15♎ 0 | 5♎59 | 27♏55 | 7♎26 | 12♉43 | 3♓43 | 22♋26 | 1♊ 4 | 2♊ 3 | 0♌32 | 15♉23 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s14 | 5s 0 | 4s36 | 3s28 | 1s44 | 9n38 | 1n 8 | 6n14 | 1n 9 | 17s33 | 0n43 | 0n27 | 2n10 | 15n38 | 0s24 | 10s46 | 0s50 | 23n 6 | 1n30 | 20n41 | 20n55 | 24n49 | 14n42 | 2s16 |
| W 2 | 3 38 | 1n11 | 3 55 | 2 45 | 1 24 | 9 13 | 1 10 | 5 59 | 1 9 | 17 36 | 0 43 | 0 24 | 2 10 | 15 38 | 0 24 | 10 47 | 0 50 | 23 6 | 1 30 | 20 39 | 20 54 | 24 48 | 14 41 | 2 17 |
| T 3 | 4 1 | 7 13 | 3 1 | 2 3 | 1 3 | 8 47 | 1 12 | 5 44 | 1 9 | 17 39 | 0 43 | 0 21 | 2 10 | 15 37 | 0 24 | 10 47 | 0 50 | 23 6 | 1 30 | 20 38 | 20 54 | 24 48 | 14 40 | 2 17 |
| F 4 | 4 24 | 12 45 | 1 59 | 1 25 | 0 43 | 8 20 | 1 14 | 5 29 | 1 9 | 17 42 | 0 43 | 0 18 | 2 10 | 15 36 | 0 24 | 10 48 | 0 50 | 23 6 | 1 30 | 20 37 | 20 53 | 24 47 | 14 39 | 2 17 |
| S 5 | 4 47 | 17 34 | 0 52 | 0 50 | 0 23 | 7 54 | 1 16 | 5 14 | 1 9 | 17 45 | 0 43 | 0 15 | 2 10 | 15 36 | 0 24 | 10 48 | 0 50 | 23 6 | 1 30 | 20 36 | 20 53 | 24 46 | 14 39 | 2 17 |
| S 6 | 5 11 | 21 27 | 0n16 | 0 20 | 0 3 | 7 27 | 1 17 | 4 59 | 1 9 | 17 48 | 0 43 | 0 12 | 2 10 | 15 35 | 0 24 | 10 49 | 0 50 | 23 6 | 1 30 | 20 36 | 20 52 | 24 45 | 14 38 | 2 17 |
| M 7 | 5 34 | 24 15 | 1 22 | 0n 5 | 0n15 | 7 0 | 1 19 | 4 44 | 1 9 | 17 51 | 0 42 | 0 9 | 2 10 | 15 35 | 0 24 | 10 49 | 0 50 | 23 6 | 1 30 | 20 36 | 20 51 | 24 44 | 14 37 | 2 17 |
| T 8 | 5 57 | 25 52 | 2 23 | 0 24 | 0 32 | 6 33 | 1 21 | 4 29 | 1 9 | 17 54 | 0 42 | 0 6 | 2 10 | 15 34 | 0 24 | 10 50 | 0 50 | 23 6 | 1 30 | 20 37 | 20 51 | 24 43 | 14 36 | 2 18 |
| W 9 | 6 20 | 26 15 | 3 17 | 0 38 | 0 48 | 6 6 | 1 22 | 4 14 | 1 9 | 17 58 | 0 42 | 0 4 | 2 10 | 15 33 | 0 24 | 10 50 | 0 50 | 23 6 | 1 30 | 20 37 | 20 50 | 24 42 | 14 35 | 2 18 |
| T 10 | 6 43 | 25 26 | 4 2 | 0 46 | 1 2 | 5 38 | 1 23 | 3 59 | 1 8 | 18 1 | 0 42 | 0 1 | 2 10 | 15 33 | 0 24 | 10 50 | 0 50 | 23 6 | 1 30 | 20 37 | 20 49 | 24 42 | 14 34 | 2 18 |
| F 11 | 7 5 | 23 28 | 4 36 | 0 49 | 1 15 | 5 10 | 1 25 | 3 44 | 1 8 | 18 4 | 0 42 | 0s 2 | 2 10 | 15 32 | 0 24 | 10 51 | 0 50 | 23 6 | 1 31 | 20 37 | 20 49 | 24 41 | 14 33 | 2 18 |
| S 12 | 7 28 | 20 29 | 4 59 | 0 46 | 1 26 | 4 42 | 1 26 | 3 28 | 1 8 | 18 7 | 0 42 | 0 5 | 2 10 | 15 31 | 0 24 | 10 51 | 0 50 | 23 6 | 1 31 | 20 36 | 20 48 | 24 40 | 14 32 | 2 18 |
| S 13 | 7 51 | 16 35 | 5 9 | 0 38 | 1 36 | 4 14 | 1 27 | 3 13 | 1 8 | 18 10 | 0 42 | 0 8 | 2 10 | 15 31 | 0 24 | 10 51 | 0 50 | 23 6 | 1 31 | 20 35 | 20 48 | 24 39 | 14 31 | 2 19 |
| M14 | 8 13 | 11 57 | 5 5 | 0 26 | 1 44 | 3 46 | 1 28 | 2 58 | 1 8 | 18 13 | 0 41 | 0 11 | 2 10 | 15 30 | 0 24 | 10 52 | 0 50 | 23 6 | 1 31 | 20 33 | 20 47 | 24 38 | 14 30 | 2 19 |
| T 15 | 8 35 | 6 45 | 4 46 | 0 9 | 1 50 | 3 18 | 1 30 | 2 43 | 1 8 | 18 16 | 0 41 | 0 13 | 2 10 | 15 29 | 0 24 | 10 52 | 0 50 | 23 6 | 1 31 | 20 32 | 20 46 | 24 37 | 14 29 | 2 19 |
| W16 | 8 58 | 1 8 | 4 13 | 0s11 | 1 56 | 2 49 | 1 31 | 2 27 | 1 8 | 18 19 | 0 41 | 0 16 | 2 11 | 15 29 | 0 24 | 10 52 | 0 50 | 23 7 | 1 31 | 20 30 | 20 46 | 24 36 | 14 28 | 2 19 |
| T 17 | 9 20 | 4s39 | 3 26 | 0 36 | 2 0 | 2 20 | 1 31 | 2 12 | 1 8 | 18 22 | 0 41 | 0 19 | 2 11 | 15 28 | 0 24 | 10 53 | 0 50 | 23 7 | 1 31 | 20 29 | 20 45 | 24 35 | 14 27 | 2 19 |
| F 18 | 9 42 | 10 21 | 2 26 | 1 3 | 2 2 | 1 52 | 1 32 | 1 57 | 1 8 | 18 26 | 0 41 | 0 22 | 2 11 | 15 27 | 0 24 | 10 53 | 0 50 | 23 7 | 1 31 | 20 28 | 20 45 | 24 34 | 14 27 | 2 19 |
| S 19 | 10 4 | 15 40 | 1 18 | 1 32 | 2 4 | 1 23 | 1 33 | 1 41 | 1 8 | 18 29 | 0 41 | 0 24 | 2 11 | 15 27 | 0 24 | 10 53 | 0 50 | 23 7 | 1 31 | 20 28 | 20 44 | 24 33 | 14 26 | 2 20 |
| S 20 | 10 25 | 20 16 | 0 4 | 2 5 | 2 5 | 0 54 | 1 34 | 1 26 | 1 7 | 18 32 | 0 41 | 0 27 | 2 11 | 15 26 | 0 24 | 10 54 | 0 50 | 23 7 | 1 32 | 20 28 | 20 43 | 24 32 | 14 25 | 2 20 |
| M21 | 10 47 | 23 47 | 1s12 | 2 39 | 2 5 | 0 25 | 1 34 | 1 11 | 1 7 | 18 35 | 0 41 | 0 30 | 2 11 | 15 25 | 0 24 | 10 54 | 0 50 | 23 7 | 1 32 | 20 28 | 20 43 | 24 31 | 14 24 | 2 20 |
| T 22 | 11 8 | 25 52 | 2 24 | 3 14 | 2 4 | 0s 4 | 1 35 | 0 55 | 1 7 | 18 38 | 0 40 | 0 32 | 2 11 | 15 25 | 0 24 | 10 54 | 0 50 | 23 7 | 1 32 | 20 28 | 20 42 | 24 30 | 14 23 | 2 20 |
| W23 | 11 29 | 26 19 | 3 27 | 3 51 | 2 2 | 0 33 | 1 35 | 0 40 | 1 7 | 18 41 | 0 40 | 0 35 | 2 11 | 15 24 | 0 24 | 10 55 | 0 50 | 23 7 | 1 32 | 20 28 | 20 41 | 24 29 | 14 22 | 2 20 |
| T 24 | 11 50 | 25 2 | 4 18 | 4 29 | 1 59 | 1 2 | 1 36 | 0 25 | 1 7 | 18 44 | 0 40 | 0 38 | 2 11 | 15 23 | 0 24 | 10 55 | 0 50 | 23 7 | 1 32 | 20 28 | 20 41 | 24 28 | 14 21 | 2 20 |
| F 25 | 12 11 | 22 11 | 4 54 | 5 8 | 1 56 | 1 32 | 1 36 | 0 9 | 1 7 | 18 47 | 0 40 | 0 40 | 2 12 | 15 22 | 0 24 | 10 55 | 0 50 | 23 7 | 1 32 | 20 28 | 20 40 | 24 27 | 14 20 | 2 20 |
| S 26 | 12 32 | 18 1 | 5 11 | 5 48 | 1 53 | 2 1 | 1 36 | 0s 6 | 1 7 | 18 50 | 0 40 | 0 43 | 2 12 | 15 22 | 0 24 | 10 55 | 0 50 | 23 7 | 1 32 | 20 28 | 20 40 | 24 26 | 14 18 | 2 21 |
| S 27 | 12 52 | 12 52 | 5 10 | 6 28 | 1 49 | 2 30 | 1 36 | 0 21 | 1 6 | 18 53 | 0 40 | 0 46 | 2 12 | 15 21 | 0 24 | 10 55 | 0 50 | 23 8 | 1 32 | 20 27 | 20 39 | 24 25 | 14 17 | 2 21 |
| M28 | 13 13 | 7 5 | 4 50 | 7 9 | 1 44 | 2 59 | 1 37 | 0 36 | 1 6 | 18 56 | 0 40 | 0 48 | 2 12 | 15 20 | 0 24 | 10 56 | 0 50 | 23 8 | 1 32 | 20 27 | 20 38 | 24 24 | 14 16 | 2 21 |
| T 29 | 13 33 | 1 1 | 4 14 | 7 49 | 1 39 | 3 28 | 1 37 | 0 52 | 1 6 | 18 59 | 0 40 | 0 51 | 2 12 | 15 19 | 0 24 | 10 56 | 0 50 | 23 8 | 1 32 | 20 26 | 20 38 | 24 23 | 14 15 | 2 21 |
| W30 | 13 52 | 5n 2 | 3 23 | 8 30 | 1 34 | 3 57 | 1 36 | 1 7 | 1 6 | 19 2 | 0 40 | 0 53 | 2 12 | 15 19 | 0 24 | 10 56 | 0 50 | 23 8 | 1 33 | 20 25 | 20 37 | 24 22 | 14 14 | 2 21 |
| T 31 | 14s12 | 10n45 | 2s22 | 9s10 | 1n29 | 4s26 | 1n36 | 1s22 | 1n 6 | 19s 5 | 0n39 | 0s56 | 2n12 | 15n18 | 0s24 | 10s56 | 0s50 | 23n 8 | 1n33 | 20n25 | 20n36 | 24n21 | 14n13 | 2s21 |

Julian Day Number = 2337132.5, Delta T = 20.01 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'04, Lahiri = 19°29'04Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## NOVEMBER 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 42 33 | 9♏ 0'07 | 17♉28 | 28♎59 | 16♎15 | 6♎37 | 28♏ 8 | 7♎33 | 12°R41 | 3°R43 | 22°R25 | 1°R 2 | 1♊59 | 0♌39 | 15°R19 | F 1 |
| S 2 | 2 46 29 | 10° 0'19 | 0♊19 | 0♏38 | 17°29 | 7°15 | 28°21 | 7°40 | 12♉38 | 3♓42 | 22♋25 | 1°D 2 | 1°56 | 0°45 | 15♉16 | S 2 |
| S 3 | 2 50 26 | 11° 0'33 | 12°53 | 2°16 | 18°44 | 7°54 | 28°34 | 7°46 | 12°36 | 3°42 | 22°25 | 1♊ 2 | 1°53 | 0°52 | 15°13 | S 3 |
| M 4 | 2 54 22 | 12° 0'49 | 25°12 | 3°54 | 19°59 | 8°32 | 28°47 | 7°53 | 12°33 | 3°41 | 22°25 | 1° 3 | 1°50 | 0°59 | 15°10 | M 4 |
| T 5 | 2 58 19 | 13° 1'08 | 7♋18 | 5°32 | 21°14 | 9°10 | 29° 0 | 8° 0 | 12°31 | 3°41 | 22°24 | 1° 5 | 1°47 | 1° 5 | 15° 7 | T 5 |
| W 6 | 3 2 15 | 14° 1'28 | 19°15 | 7° 9 | 22°29 | 9°48 | 29°13 | 8° 6 | 12°28 | 3°41 | 22°24 | 1° 7 | 1°44 | 1°12 | 15° 3 | W 6 |
| T 7 | 3 6 12 | 15° 1'50 | 1♌ 7 | 8°47 | 23°43 | 10°26 | 29°26 | 8°12 | 12°26 | 3°41 | 22°24 | 1° 8 | 1°40 | 1°19 | 15° 0 | T 7 |
| F 8 | 3 10 9 | 16° 2'13 | 12°59 | 10°24 | 24°58 | 11° 4 | 29°40 | 8°19 | 12°23 | 3°40 | 22°23 | 1°R 8 | 1°37 | 1°26 | 14°57 | F 8 |
| S 9 | 3 14 5 | 17° 2'39 | 24°55 | 12° 1 | 26°13 | 11°43 | 29°53 | 8°25 | 12°21 | 3°40 | 22°23 | 1° 8 | 1°34 | 1°32 | 14°54 | S 9 |
| S 10 | 3 18 2 | 18° 3'07 | 7♍ 0 | 13°38 | 27°28 | 12°21 | 0♐ 6 | 8°32 | 12°18 | 3°40 | 22°22 | 1° 7 | 1°31 | 1°39 | 14°51 | S 10 |
| M11 | 3 21 58 | 19° 3'36 | 19°19 | 15°14 | 28°43 | 12°59 | 0°19 | 8°38 | 12°16 | 3°40 | 22°22 | 1° 6 | 1°28 | 1°46 | 14°47 | M11 |
| T 12 | 3 25 55 | 20° 4'08 | 1♎56 | 16°50 | 29°58 | 13°37 | 0°33 | 8°44 | 12°14 | 3°40 | 22°21 | 1° 5 | 1°25 | 1°52 | 14°44 | T 12 |
| W13 | 3 29 51 | 21° 4'41 | 14°52 | 18°26 | 1♏13 | 14°16 | 0°46 | 8°50 | 12°11 | 3°40 | 22°21 | 1° 3 | 1°21 | 1°59 | 14°41 | W13 |
| T 14 | 3 33 48 | 22° 5'15 | 28° 9 | 20° 2 | 2°29 | 14°54 | 0°59 | 8°56 | 12° 9 | 3°40 | 22°20 | 1° 2 | 1°18 | 2° 6 | 14°38 | T 14 |
| F 15 | 3 37 44 | 23° 5'52 | 11♏48 | 21°37 | 3°44 | 15°32 | 1°13 | 9° 2 | 12° 6 | 3°D40 | 22°20 | 1° 1 | 1°15 | 2°12 | 14°35 | F 15 |
| S 16 | 3 41 41 | 24° 6'30 | 25°46 | 23°12 | 4°59 | 16°10 | 1°26 | 9° 8 | 12° 4 | 3°40 | 22°19 | 1°D 1 | 1°12 | 2°19 | 14°32 | S 16 |
| S 17 | 3 45 38 | 25° 7'10 | 9♐59 | 24°47 | 6°14 | 16°48 | 1°40 | 9°14 | 12° 1 | 3°40 | 22°19 | 1° 1 | 1° 9 | 2°26 | 14°28 | S 17 |
| M18 | 3 49 34 | 26° 7'51 | 24°23 | 26°22 | 7°29 | 17°27 | 1°53 | 9°20 | 11°59 | 3°40 | 22°18 | 1° 1 | 1° 5 | 2°33 | 14°25 | M18 |
| T 19 | 3 53 31 | 27° 8'33 | 8♑52 | 27°57 | 8°44 | 18° 5 | 2° 6 | 9°26 | 11°57 | 3°40 | 22°17 | 1° 1 | 1° 2 | 2°39 | 14°22 | T 19 |
| W20 | 3 57 27 | 28° 9'17 | 23°22 | 29°31 | 10° 0 | 18°43 | 2°20 | 9°32 | 11°54 | 3°40 | 22°17 | 1° 2 | 0°59 | 2°46 | 14°19 | W20 |
| T 21 | 4 1 24 | 29°10'01 | 7♒47 | 1♐ 6 | 11°15 | 19°21 | 2°33 | 9°37 | 11°52 | 3°40 | 22°16 | 1° 2 | 0°56 | 2°53 | 14°16 | T 21 |
| F 22 | 4 5 20 | 0♐10'47 | 22° 3 | 2°40 | 12°30 | 20° 0 | 2°47 | 9°43 | 11°49 | 3°41 | 22°15 | 1° 2 | 0°53 | 2°59 | 14°13 | F 22 |
| S 23 | 4 9 17 | 1°11'33 | 6♓ 9 | 4°14 | 13°45 | 20°38 | 3° 0 | 9°48 | 11°47 | 3°41 | 22°15 | 1° 2 | 0°50 | 3° 6 | 14°10 | S 23 |
| S 24 | 4 13 13 | 2°12'20 | 20° 2 | 5°48 | 15° 1 | 21°16 | 3°14 | 9°54 | 11°45 | 3°41 | 22°14 | 1° 2 | 0°46 | 3°13 | 14° 7 | S 24 |
| M25 | 4 17 10 | 3°13'09 | 3♈42 | 7°22 | 16°16 | 21°54 | 3°27 | 9°59 | 11°43 | 3°41 | 22°13 | 1° 2 | 0°43 | 3°20 | 14° 4 | M25 |
| T 26 | 4 21 7 | 4°13'58 | 17° 8 | 8°56 | 17°31 | 22°33 | 3°41 | 10° 5 | 11°40 | 3°42 | 22°12 | 1° 2 | 0°40 | 3°26 | 14° 1 | T 26 |
| W27 | 4 25 3 | 5°14'48 | 0♉22 | 10°29 | 18°46 | 23°11 | 3°54 | 10°10 | 11°38 | 3°42 | 22°11 | 1° 3 | 0°37 | 3°33 | 13°58 | W27 |
| T 28 | 4 29 0 | 6°15'39 | 13°21 | 12° 3 | 20° 2 | 23°49 | 4° 7 | 10°15 | 11°36 | 3°43 | 22°11 | 1° 3 | 0°34 | 3°40 | 13°55 | T 28 |
| F 29 | 4 32 56 | 7°16'31 | 26° 8 | 13°37 | 21°17 | 24°27 | 4°21 | 10°20 | 11°34 | 3°43 | 22°10 | 1°R 4 | 0°31 | 3°46 | 13°52 | F 29 |
| S 30 | 4 36 53 | 8♐17'25 | 8♊42 | 15♐10 | 22♏32 | 25♎ 5 | 4♐34 | 10♎25 | 11♉32 | 3♓44 | 22♋ 9 | 1♊ 4 | 0♊27 | 3♌53 | 13♉49 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14s31 | 15n53 | 1s14 | 9s50 | 1n23 | 4s55 | 1n36 | 1s38 | 1n 6 | 19s 8 | 0n39 | 0s58 | 2n12 | 15n17 | 0s24 | 10s56 | 0s50 | 23n 8 | 1n33 | 20n24 | 20n36 | 24n20 | 14n12 | 2s21 |
| S 2 | 14 50 | 20 11 | 0 4 | 10 31 | 1 17 | 5 24 | 1 36 | 1 53 | 1 6 | 19 11 | 0 39 | 1 1 | 2 13 | 15 16 | 0 24 | 10 56 | 0 50 | 23 8 | 1 33 | 20 24 | 20 35 | 24 19 | 14 11 | 2 21 |
| S 3 | 15 9 | 23 27 | 1n 5 | 11 10 | 1 11 | 5 53 | 1 36 | 2 8 | 1 5 | 19 14 | 0 39 | 1 3 | 2 13 | 15 16 | 0 24 | 10 57 | 0 50 | 23 9 | 1 33 | 20 24 | 20 35 | 24 18 | 14 10 | 2 22 |
| M 4 | 15 28 | 25 33 | 2 9 | 11 50 | 1 5 | 6 21 | 1 35 | 2 23 | 1 5 | 19 17 | 0 39 | 1 6 | 2 13 | 15 15 | 0 24 | 10 57 | 0 50 | 23 9 | 1 33 | 20 24 | 20 34 | 24 17 | 14 9 | 2 22 |
| T 5 | 15 46 | 26 24 | 3 7 | 12 28 | 0 58 | 6 50 | 1 35 | 2 39 | 1 5 | 19 20 | 0 39 | 1 8 | 2 13 | 15 14 | 0 24 | 10 57 | 0 50 | 23 9 | 1 33 | 20 25 | 20 33 | 24 16 | 14 8 | 2 22 |
| W 6 | 16 5 | 25 59 | 3 56 | 13 7 | 0 52 | 7 18 | 1 34 | 2 54 | 1 5 | 19 23 | 0 39 | 1 11 | 2 13 | 15 13 | 0 24 | 10 57 | 0 50 | 23 9 | 1 33 | 20 25 | 20 33 | 24 15 | 14 7 | 2 22 |
| T 7 | 16 22 | 24 24 | 4 34 | 13 44 | 0 45 | 7 47 | 1 33 | 3 9 | 1 5 | 19 26 | 0 39 | 1 13 | 2 13 | 15 13 | 0 24 | 10 57 | 0 50 | 23 9 | 1 33 | 20 25 | 20 32 | 24 14 | 14 6 | 2 22 |
| F 8 | 16 40 | 21 45 | 5 1 | 14 21 | 0 38 | 8 15 | 1 33 | 3 24 | 1 5 | 19 29 | 0 39 | 1 16 | 2 13 | 15 12 | 0 24 | 10 57 | 0 50 | 23 9 | 1 34 | 20 25 | 20 31 | 24 13 | 14 5 | 2 22 |
| S 9 | 16 57 | 18 10 | 5 14 | 14 58 | 0 32 | 8 43 | 1 32 | 3 39 | 1 4 | 19 32 | 0 39 | 1 18 | 2 14 | 15 11 | 0 24 | 10 57 | 0 50 | 23 9 | 1 34 | 20 25 | 20 31 | 24 12 | 14 4 | 2 22 |
| S 10 | 17 14 | 13 49 | 5 15 | 15 34 | 0 25 | 9 11 | 1 31 | 3 54 | 1 4 | 19 35 | 0 38 | 1 20 | 2 14 | 15 10 | 0 24 | 10 57 | 0 50 | 23 10 | 1 34 | 20 25 | 20 30 | 24 11 | 14 3 | 2 22 |
| M11 | 17 31 | 8 50 | 5 1 | 16 9 | 0 18 | 9 38 | 1 30 | 4 9 | 1 4 | 19 38 | 0 38 | 1 23 | 2 14 | 15 10 | 0 24 | 10 57 | 0 50 | 23 10 | 1 34 | 20 25 | 20 29 | 24 10 | 14 2 | 2 22 |
| T 12 | 17 47 | 3 23 | 4 32 | 16 43 | 0 11 | 10 5 | 1 29 | 4 24 | 1 4 | 19 41 | 0 38 | 1 25 | 2 14 | 15 9 | 0 24 | 10 57 | 0 50 | 23 10 | 1 34 | 20 25 | 20 29 | 24 8 | 14 1 | 2 22 |
| W13 | 18 4 | 2s21 | 3 49 | 17 16 | 0 5 | 10 33 | 1 28 | 4 39 | 1 4 | 19 44 | 0 38 | 1 27 | 2 14 | 15 8 | 0 24 | 10 57 | 0 50 | 23 10 | 1 34 | 20 24 | 20 28 | 24 7 | 14 0 | 2 22 |
| T 14 | 18 19 | 8 9 | 2 52 | 17 49 | 0s 2 | 10 59 | 1 27 | 4 54 | 1 3 | 19 46 | 0 38 | 1 29 | 2 14 | 15 7 | 0 24 | 10 57 | 0 50 | 23 10 | 1 34 | 20 24 | 20 27 | 24 6 | 13 59 | 2 23 |
| F 15 | 18 35 | 13 45 | 1 45 | 18 21 | 0 9 | 11 26 | 1 26 | 5 9 | 1 3 | 19 49 | 0 38 | 1 32 | 2 15 | 15 7 | 0 24 | 10 57 | 0 50 | 23 11 | 1 34 | 20 24 | 20 27 | 24 5 | 13 58 | 2 23 |
| S 16 | 18 50 | 18 46 | 0 29 | 18 51 | 0 16 | 11 52 | 1 25 | 5 24 | 1 3 | 19 52 | 0 38 | 1 34 | 2 15 | 15 6 | 0 24 | 10 57 | 0 50 | 23 11 | 1 34 | 20 24 | 20 26 | 24 4 | 13 57 | 2 23 |
| S 17 | 19 5 | 22 48 | 0s50 | 19 21 | 0 22 | 12 19 | 1 23 | 5 39 | 1 3 | 19 55 | 0 38 | 1 36 | 2 15 | 15 5 | 0 24 | 10 57 | 0 50 | 23 11 | 1 34 | 20 24 | 20 25 | 24 3 | 13 56 | 2 23 |
| M18 | 19 19 | 25 28 | 2 6 | 19 50 | 0 29 | 12 44 | 1 22 | 5 54 | 1 3 | 19 58 | 0 38 | 1 38 | 2 15 | 15 5 | 0 24 | 10 57 | 0 50 | 23 11 | 1 35 | 20 24 | 20 25 | 24 2 | 13 55 | 2 23 |
| T 19 | 19 33 | 26 26 | 3 15 | 20 18 | 0 35 | 13 10 | 1 21 | 6 9 | 1 2 | 20 0 | 0 38 | 1 40 | 2 15 | 15 4 | 0 24 | 10 57 | 0 50 | 23 11 | 1 35 | 20 24 | 20 24 | 24 0 | 13 54 | 2 23 |
| W20 | 19 47 | 25 35 | 4 11 | 20 45 | 0 41 | 13 35 | 1 19 | 6 23 | 1 2 | 20 3 | 0 38 | 1 42 | 2 16 | 15 3 | 0 24 | 10 57 | 0 50 | 23 12 | 1 35 | 20 24 | 20 24 | 23 59 | 13 53 | 2 23 |
| T 21 | 20 0 | 23 3 | 4 52 | 21 11 | 0 48 | 14 0 | 1 18 | 6 38 | 1 2 | 20 6 | 0 37 | 1 44 | 2 16 | 15 2 | 0 24 | 10 57 | 0 50 | 23 12 | 1 35 | 20 24 | 20 23 | 23 58 | 13 52 | 2 23 |
| F 22 | 20 13 | 19 7 | 5 13 | 21 36 | 0 54 | 14 24 | 1 16 | 6 53 | 1 2 | 20 8 | 0 37 | 1 46 | 2 16 | 15 2 | 0 24 | 10 57 | 0 50 | 23 12 | 1 35 | 20 24 | 20 22 | 23 57 | 13 51 | 2 23 |
| S 23 | 20 26 | 14 10 | 5 16 | 22 0 | 1 0 | 14 48 | 1 15 | 7 7 | 1 1 | 20 11 | 0 37 | 1 48 | 2 16 | 15 1 | 0 24 | 10 57 | 0 50 | 23 12 | 1 35 | 20 24 | 20 22 | 23 56 | 13 50 | 2 23 |
| S 24 | 20 38 | 8 33 | 5 0 | 22 23 | 1 6 | 15 12 | 1 13 | 7 22 | 1 1 | 20 14 | 0 37 | 1 50 | 2 16 | 15 0 | 0 24 | 10 57 | 0 49 | 23 12 | 1 35 | 20 24 | 20 21 | 23 55 | 13 49 | 2 23 |
| M25 | 20 50 | 2 37 | 4 27 | 22 45 | 1 11 | 15 36 | 1 11 | 7 36 | 1 1 | 20 16 | 0 37 | 1 52 | 2 17 | 15 0 | 0 24 | 10 56 | 0 49 | 23 13 | 1 35 | 20 24 | 20 20 | 23 53 | 13 48 | 2 23 |
| T 26 | 21 2 | 3n21 | 3 40 | 23 5 | 1 17 | 15 59 | 1 9 | 7 51 | 1 1 | 20 19 | 0 37 | 1 54 | 2 17 | 14 59 | 0 24 | 10 56 | 0 49 | 23 13 | 1 35 | 20 24 | 20 20 | 23 52 | 13 48 | 2 23 |
| W27 | 21 13 | 9 5 | 2 42 | 23 25 | 1 22 | 16 21 | 1 8 | 8 5 | 1 0 | 20 22 | 0 37 | 1 56 | 2 17 | 14 58 | 0 24 | 10 56 | 0 49 | 23 13 | 1 35 | 20 24 | 20 19 | 23 51 | 13 47 | 2 23 |
| T 28 | 21 23 | 14 20 | 1 37 | 23 43 | 1 27 | 16 43 | 1 6 | 8 20 | 1 0 | 20 24 | 0 37 | 1 58 | 2 17 | 14 58 | 0 24 | 10 56 | 0 49 | 23 13 | 1 36 | 20 24 | 20 18 | 23 50 | 13 46 | 2 23 |
| F 29 | 21 34 | 18 53 | 0 27 | 24 0 | 1 32 | 17 5 | 1 4 | 8 34 | 1 0 | 20 27 | 0 37 | 2 0 | 2 17 | 14 57 | 0 24 | 10 56 | 0 49 | 23 14 | 1 36 | 20 24 | 20 18 | 23 48 | 13 45 | 2 23 |
| S 30 | 21s44 | 22n29 | 0n42 | 24s16 | 1s37 | 17s26 | 1n 2 | 8s48 | 1n 0 | 20s29 | 0n37 | 2s 1 | 2n18 | 14n56 | 0s24 | 10s55 | 0s49 | 23n14 | 1n36 | 20n24 | 20n17 | 23n47 | 13n44 | 2s23 |

Julian Day Number = 2337163.5, Delta T = 19.97 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'08, Lahiri = 19°29'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1686
# geocentric

## DECEMBER 1686 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 40 49 | 9♐18'19 | 21♊ 5 | 16♐44 | 23♏48 | 25♎44 | 4♐48 | 10♎30 | 11°R29 | 3♓44 | 22°R 8 | 1°R 3 | 0♊24 | 4♌ 0 | 13°R47 | S 1 |
| M 2 | 4 44 46 | 10°19'14 | 3♋16 | 18°18 | 25° 3 | 26°22 | 5° 1 | 10°35 | 11♉27 | 3°45 | 22♋ 7 | 1♊ 2 | 0°21 | 4° 6 | 13♉44 | M 2 |
| T 3 | 4 48 42 | 11°20'11 | 15°19 | 19°51 | 26°18 | 27° 0 | 5°15 | 10°40 | 11°25 | 3°45 | 22° 6 | 1° 1 | 0°18 | 4°13 | 13°41 | T 3 |
| W 4 | 4 52 39 | 12°21'09 | 27°15 | 21°25 | 27°34 | 27°38 | 5°28 | 10°45 | 11°23 | 3°46 | 22° 5 | 0°59 | 0°15 | 4°20 | 13°38 | W 4 |
| T 5 | 4 56 36 | 13°22'07 | 9♌ 6 | 22°58 | 28°49 | 28°17 | 5°42 | 10°49 | 11°21 | 3°47 | 22° 4 | 0°57 | 0°11 | 4°27 | 13°36 | T 5 |
| F 6 | 5 0 32 | 14°23'07 | 20°57 | 24°32 | 0♐ 5 | 28°55 | 5°55 | 10°54 | 11°19 | 3°47 | 22° 3 | 0°56 | 0° 8 | 4°33 | 13°33 | F 6 |
| S 7 | 5 4 29 | 15°24'08 | 2♍52 | 26° 5 | 1°20 | 29°33 | 6° 8 | 10°58 | 11°17 | 3°48 | 22° 2 | 0°54 | 0° 5 | 4°40 | 13°30 | S 7 |
| S 8 | 5 8 25 | 16°25'10 | 14°55 | 27°39 | 2°35 | 0♏11 | 6°22 | 11° 3 | 11°15 | 3°49 | 22° 1 | 0°D54 | 0° 2 | 4°47 | 13°28 | S 8 |
| M 9 | 5 12 22 | 17°26'13 | 27°10 | 29°12 | 3°51 | 0°50 | 6°35 | 11° 7 | 11°13 | 3°50 | 22° 0 | 0°54 | 29♉59 | 4°53 | 13°25 | M 9 |
| T 10 | 5 16 18 | 18°27'16 | 9♎42 | 0♑46 | 5° 6 | 1°28 | 6°48 | 11°12 | 11°12 | 3°51 | 21°59 | 0°55 | 29°56 | 5° 0 | 13°23 | T 10 |
| W11 | 5 20 15 | 19°28'21 | 22°36 | 2°19 | 6°22 | 2° 6 | 7° 2 | 11°16 | 11°10 | 3°52 | 21°58 | 0°57 | 29°52 | 5° 7 | 13°20 | W11 |
| T 12 | 5 24 11 | 20°29'27 | 5♏54 | 3°52 | 7°37 | 2°44 | 7°15 | 11°20 | 11° 8 | 3°52 | 21°57 | 0°58 | 29°49 | 5°14 | 13°18 | T 12 |
| F 13 | 5 28 8 | 21°30'34 | 19°38 | 5°24 | 8°53 | 3°22 | 7°28 | 11°24 | 11° 6 | 3°53 | 21°56 | 0°59 | 29°46 | 5°20 | 13°16 | F 13 |
| S 14 | 5 32 5 | 22°31'41 | 3♐47 | 6°57 | 10° 8 | 4° 1 | 7°42 | 11°28 | 11° 5 | 3°54 | 21°55 | 1°R 0 | 29°43 | 5°27 | 13°13 | S 14 |
| S 15 | 5 36 1 | 23°32'50 | 18°19 | 8°29 | 11°23 | 4°39 | 7°55 | 11°32 | 11° 3 | 3°55 | 21°54 | 0°59 | 29°40 | 5°34 | 13°11 | S 15 |
| M16 | 5 39 58 | 24°33'58 | 3♑ 8 | 10° 0 | 12°39 | 5°17 | 8° 8 | 11°35 | 11° 1 | 3°56 | 21°53 | 0°57 | 29°37 | 5°40 | 13° 9 | M16 |
| T 17 | 5 43 54 | 25°35'08 | 18° 5 | 11°31 | 13°54 | 5°55 | 8°21 | 11°39 | 11° 0 | 3°58 | 21°52 | 0°54 | 29°33 | 5°47 | 13° 7 | T 17 |
| W18 | 5 47 51 | 26°36'17 | 3♒ 3 | 13° 1 | 15°10 | 6°34 | 8°35 | 11°43 | 10°58 | 3°59 | 21°50 | 0°50 | 29°30 | 5°54 | 13° 5 | W18 |
| T 19 | 5 51 47 | 27°37'27 | 17°53 | 14°29 | 16°25 | 7°12 | 8°48 | 11°46 | 10°57 | 4° 0 | 21°49 | 0°46 | 29°27 | 6° 1 | 13° 3 | T 19 |
| F 20 | 5 55 44 | 28°38'37 | 2♓27 | 15°57 | 17°41 | 7°50 | 9° 1 | 11°49 | 10°55 | 4° 1 | 21°48 | 0°43 | 29°24 | 6° 7 | 13° 1 | F 20 |
| S 21 | 5 59 41 | 29°39'46 | 16°42 | 17°23 | 18°56 | 8°28 | 9°14 | 11°53 | 10°54 | 4° 2 | 21°47 | 0°41 | 29°21 | 6°14 | 12°59 | S 21 |
| S 22 | 6 3 37 | 0♑40'56 | 0♈35 | 18°48 | 20°12 | 9° 6 | 9°27 | 11°56 | 10°52 | 4° 3 | 21°46 | 0°D40 | 29°17 | 6°21 | 12°57 | S 22 |
| M23 | 6 7 34 | 1°42'06 | 14° 7 | 20°10 | 21°27 | 9°45 | 9°40 | 11°59 | 10°51 | 4° 5 | 21°44 | 0°41 | 29°14 | 6°27 | 12°55 | M23 |
| T 24 | 6 11 30 | 2°43'15 | 27°19 | 21°30 | 22°43 | 10°23 | 9°53 | 12° 2 | 10°50 | 4° 6 | 21°43 | 0°42 | 29°11 | 6°34 | 12°53 | T 24 |
| W25 | 6 15 27 | 3°44'25 | 10♉13 | 22°47 | 23°58 | 11° 1 | 10° 6 | 12° 5 | 10°49 | 4° 7 | 21°42 | 0°44 | 29° 8 | 6°41 | 12°51 | W25 |
| T 26 | 6 19 23 | 4°45'34 | 22°53 | 24° 0 | 25°14 | 11°39 | 10°19 | 12° 8 | 10°47 | 4° 9 | 21°41 | 0°45 | 29° 5 | 6°48 | 12°50 | T 26 |
| F 27 | 6 23 20 | 5°46'44 | 5♊20 | 25°10 | 26°29 | 12°17 | 10°32 | 12°10 | 10°46 | 4°10 | 21°39 | 0°R46 | 29° 2 | 6°54 | 12°48 | F 27 |
| S 28 | 6 27 16 | 6°47'53 | 17°37 | 26°14 | 27°45 | 12°56 | 10°44 | 12°13 | 10°45 | 4°11 | 21°38 | 0°44 | 28°58 | 7° 1 | 12°46 | S 28 |
| S 29 | 6 31 13 | 7°49'02 | 29°46 | 27°13 | 29° 0 | 13°34 | 10°57 | 12°16 | 10°44 | 4°13 | 21°37 | 0°41 | 28°55 | 7° 8 | 12°45 | S 29 |
| M30 | 6 35 10 | 8°50'12 | 11♋48 | 28° 6 | 0♑15 | 14°12 | 11°10 | 12°18 | 10°43 | 4°14 | 21°36 | 0°35 | 28°52 | 7°14 | 12°44 | M30 |
| T 31 | 6 39 6 | 9♑51'21 | 23♋45 | 28♑52 | 1♑31 | 14♏50 | 11♐23 | 12♎20 | 10♉42 | 4♓16 | 21♋34 | 0♊28 | 28♉49 | 7♌21 | 12♉42 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s53 | 24n59 | 1n49 | 24s30 | 1s42 | 17s47 | 1n 0 | 9s 2 | 0n59 | 20s32 | 0n37 | 2s 3 | 2n18 | 14n56 | 0s24 | 10s55 | 0s49 | 23n14 | 1n36 | 20n24 | 20n16 | 23n46 | 13n43 | 2s23 |
| M 2 | 22 2 | 26 16 | 2 49 | 24 44 | 1 46 | 18 7 | 0 58 | 9 17 | 0 59 | 20 34 | 0 37 | 2 5 | 2 18 | 14 55 | 0 24 | 10 55 | 0 49 | 23 14 | 1 36 | 20 24 | 20 16 | 23 45 | 13 42 | 2 23 |
| T 3 | 22 11 | 26 16 | 3 41 | 24 55 | 1 50 | 18 27 | 0 56 | 9 31 | 0 59 | 20 37 | 0 37 | 2 7 | 2 18 | 14 54 | 0 24 | 10 55 | 0 49 | 23 15 | 1 36 | 20 24 | 20 15 | 23 43 | 13 41 | 2 23 |
| W 4 | 22 19 | 25 3 | 4 23 | 25 6 | 1 54 | 18 46 | 0 54 | 9 45 | 0 58 | 20 39 | 0 37 | 2 8 | 2 18 | 14 54 | 0 24 | 10 55 | 0 49 | 23 15 | 1 36 | 20 23 | 20 14 | 23 42 | 13 41 | 2 24 |
| T 5 | 22 27 | 22 43 | 4 53 | 25 15 | 1 58 | 19 5 | 0 52 | 9 58 | 0 58 | 20 42 | 0 36 | 2 10 | 2 19 | 14 53 | 0 24 | 10 54 | 0 49 | 23 15 | 1 36 | 20 23 | 20 14 | 23 41 | 13 40 | 2 24 |
| F 6 | 22 34 | 19 27 | 5 11 | 25 23 | 2 1 | 19 24 | 0 50 | 10 12 | 0 58 | 20 44 | 0 36 | 2 11 | 2 19 | 14 53 | 0 24 | 10 54 | 0 49 | 23 15 | 1 36 | 20 23 | 20 13 | 23 40 | 13 39 | 2 24 |
| S 7 | 22 41 | 15 22 | 5 16 | 25 29 | 2 4 | 19 41 | 0 47 | 10 26 | 0 58 | 20 46 | 0 36 | 2 13 | 2 19 | 14 52 | 0 24 | 10 54 | 0 49 | 23 16 | 1 36 | 20 23 | 20 12 | 23 38 | 13 38 | 2 24 |
| S 8 | 22 47 | 10 40 | 5 7 | 25 34 | 2 7 | 19 58 | 0 45 | 10 40 | 0 57 | 20 49 | 0 36 | 2 14 | 2 19 | 14 51 | 0 24 | 10 53 | 0 49 | 23 16 | 1 36 | 20 22 | 20 12 | 23 37 | 13 37 | 2 24 |
| M 9 | 22 53 | 5 28 | 4 44 | 25 38 | 2 9 | 20 15 | 0 43 | 10 54 | 0 57 | 20 51 | 0 36 | 2 16 | 2 20 | 14 51 | 0 24 | 10 53 | 0 49 | 23 16 | 1 37 | 20 23 | 20 11 | 23 36 | 13 37 | 2 24 |
| T 10 | 22 59 | 0s 4 | 4 7 | 25 40 | 2 11 | 20 31 | 0 41 | 11 7 | 0 57 | 20 53 | 0 36 | 2 17 | 2 20 | 14 50 | 0 24 | 10 53 | 0 49 | 23 16 | 1 37 | 20 23 | 20 10 | 23 34 | 13 36 | 2 24 |
| W11 | 23 4 | 5 46 | 3 16 | 25 40 | 2 12 | 20 47 | 0 38 | 11 21 | 0 56 | 20 56 | 0 36 | 2 19 | 2 20 | 14 50 | 0 24 | 10 52 | 0 49 | 23 17 | 1 37 | 20 23 | 20 10 | 23 33 | 13 35 | 2 24 |
| T 12 | 23 8 | 11 24 | 2 14 | 25 39 | 2 14 | 21 1 | 0 36 | 11 34 | 0 56 | 20 58 | 0 36 | 2 20 | 2 20 | 14 49 | 0 24 | 10 52 | 0 49 | 23 17 | 1 37 | 20 23 | 20 9 | 23 32 | 13 35 | 2 24 |
| F 13 | 23 13 | 16 40 | 1 2 | 25 36 | 2 14 | 21 16 | 0 34 | 11 47 | 0 56 | 21 0 | 0 36 | 2 22 | 2 21 | 14 49 | 0 24 | 10 52 | 0 49 | 23 17 | 1 37 | 20 24 | 20 8 | 23 31 | 13 34 | 2 24 |
| S 14 | 23 16 | 21 12 | 0s15 | 25 32 | 2 15 | 21 29 | 0 31 | 12 1 | 0 55 | 21 2 | 0 36 | 2 23 | 2 21 | 14 48 | 0 24 | 10 51 | 0 49 | 23 17 | 1 37 | 20 24 | 20 7 | 23 29 | 13 33 | 2 24 |
| S 15 | 23 19 | 24 32 | 1 34 | 25 27 | 2 14 | 21 42 | 0 29 | 12 14 | 0 55 | 21 5 | 0 36 | 2 24 | 2 21 | 14 48 | 0 24 | 10 51 | 0 49 | 23 18 | 1 37 | 20 23 | 20 7 | 23 28 | 13 32 | 2 24 |
| M16 | 23 22 | 26 14 | 2 48 | 25 20 | 2 14 | 21 55 | 0 27 | 12 27 | 0 55 | 21 7 | 0 36 | 2 25 | 2 21 | 14 47 | 0 24 | 10 51 | 0 49 | 23 18 | 1 37 | 20 23 | 20 6 | 23 27 | 13 32 | 2 24 |
| T 17 | 23 24 | 26 4 | 3 50 | 25 11 | 2 12 | 22 6 | 0 24 | 12 40 | 0 54 | 21 9 | 0 36 | 2 27 | 2 22 | 14 47 | 0 24 | 10 50 | 0 49 | 23 18 | 1 37 | 20 22 | 20 5 | 23 25 | 13 31 | 2 24 |
| W18 | 23 26 | 24 0 | 4 38 | 25 0 | 2 10 | 22 17 | 0 22 | 12 53 | 0 54 | 21 11 | 0 36 | 2 28 | 2 22 | 14 46 | 0 24 | 10 50 | 0 49 | 23 18 | 1 37 | 20 22 | 20 5 | 23 24 | 13 31 | 2 24 |
| T 19 | 23 28 | 20 20 | 5 6 | 24 49 | 2 8 | 22 28 | 0 20 | 13 6 | 0 54 | 21 13 | 0 36 | 2 29 | 2 22 | 14 46 | 0 23 | 10 49 | 0 49 | 23 19 | 1 37 | 20 21 | 20 4 | 23 22 | 13 30 | 2 24 |
| F 20 | 23 28 | 15 29 | 5 13 | 24 35 | 2 5 | 22 38 | 0 17 | 13 19 | 0 53 | 21 15 | 0 36 | 2 30 | 2 22 | 14 45 | 0 23 | 10 49 | 0 49 | 23 19 | 1 38 | 20 20 | 20 3 | 23 21 | 13 29 | 2 24 |
| S 21 | 23 29 | 9 53 | 5 1 | 24 21 | 2 1 | 22 47 | 0 15 | 13 31 | 0 53 | 21 17 | 0 36 | 2 31 | 2 23 | 14 45 | 0 23 | 10 48 | 0 49 | 23 19 | 1 38 | 20 20 | 20 3 | 23 20 | 13 29 | 2 23 |
| S 22 | 23 29 | 3 55 | 4 32 | 24 5 | 1 56 | 22 55 | 0 12 | 13 44 | 0 52 | 21 19 | 0 35 | 2 32 | 2 23 | 14 45 | 0 23 | 10 48 | 0 49 | 23 20 | 1 38 | 20 20 | 20 2 | 23 18 | 13 28 | 2 23 |
| M23 | 23 28 | 2n 5 | 3 48 | 23 47 | 1 51 | 23 3 | 0 10 | 13 56 | 0 52 | 21 21 | 0 35 | 2 33 | 2 23 | 14 44 | 0 23 | 10 47 | 0 49 | 23 20 | 1 38 | 20 20 | 20 1 | 23 17 | 13 28 | 2 23 |
| T 24 | 23 27 | 7 51 | 2 53 | 23 29 | 1 44 | 23 9 | 0 7 | 14 9 | 0 52 | 21 23 | 0 35 | 2 34 | 2 23 | 14 44 | 0 23 | 10 47 | 0 49 | 23 20 | 1 38 | 20 20 | 20 1 | 23 16 | 13 27 | 2 23 |
| W25 | 23 26 | 13 10 | 1 50 | 23 9 | 1 37 | 23 16 | 0 5 | 14 21 | 0 51 | 21 25 | 0 35 | 2 35 | 2 24 | 14 43 | 0 23 | 10 47 | 0 49 | 23 20 | 1 38 | 20 20 | 20 0 | 23 14 | 13 27 | 2 23 |
| T 26 | 23 24 | 17 50 | 0 43 | 22 48 | 1 29 | 23 21 | 0 2 | 14 33 | 0 51 | 21 27 | 0 35 | 2 36 | 2 24 | 14 43 | 0 23 | 10 46 | 0 49 | 23 21 | 1 38 | 20 21 | 19 59 | 23 13 | 13 26 | 2 23 |
| F 27 | 23 21 | 21 38 | 0n25 | 22 27 | 1 20 | 23 26 | 0s 0 | 14 45 | 0 50 | 21 29 | 0 35 | 2 36 | 2 24 | 14 43 | 0 23 | 10 45 | 0 49 | 23 21 | 1 38 | 20 21 | 19 59 | 23 11 | 13 26 | 2 23 |
| S 28 | 23 18 | 24 24 | 1 31 | 22 5 | 1 10 | 23 30 | 0 2 | 14 57 | 0 50 | 21 31 | 0 35 | 2 37 | 2 25 | 14 42 | 0 23 | 10 45 | 0 49 | 23 21 | 1 38 | 20 20 | 19 58 | 23 10 | 13 25 | 2 23 |
| S 29 | 23 15 | 26 0 | 2 31 | 21 42 | 0 58 | 23 34 | 0 5 | 15 9 | 0 50 | 21 33 | 0 35 | 2 38 | 2 25 | 14 42 | 0 23 | 10 44 | 0 49 | 23 22 | 1 38 | 20 20 | 19 57 | 23 8 | 13 25 | 2 23 |
| M30 | 23 11 | 26 21 | 3 24 | 21 20 | 0 46 | 23 36 | 0 7 | 15 21 | 0 49 | 21 34 | 0 35 | 2 39 | 2 25 | 14 42 | 0 23 | 10 44 | 0 49 | 23 22 | 1 38 | 20 19 | 19 56 | 23 7 | 13 25 | 2 23 |
| T 31 | 23s 7 | 25n28 | 4n 8 | 20s57 | 0s33 | 23s38 | 0s10 | 15s32 | 0n49 | 21s36 | 0n35 | 2s39 | 2n25 | 14n42 | 0s23 | 10s43 | 0s49 | 23n22 | 1n38 | 20n17 | 19n56 | 23n 6 | 13n24 | 2s23 |

Julian Day Number = 2337193.5, Delta T = 19.93 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'12, Lahiri = 19°29'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## JANUARY 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 43 3 | 10♑52'30 | 5♌39 | 29♑30 | 2♑46 | 15♏28 | 11♐35 | 12♎22 | 10°R41 | 4♓17 | 21°R33 | 0°R20 | 28♉46 | 7♌28 | 12°R41 | W 1 |
| T 2 | 6 46 59 | 11°53'39 | 17°30 | 29°58 | 4° 2 | 16° 6 | 11°48 | 12°25 | 10♉40 | 4°19 | 21♋32 | 0♊12 | 28°43 | 7°35 | 12♉40 | T 2 |
| F 3 | 6 50 56 | 12°54'48 | 29°22 | 0♒17 | 5°17 | 16°44 | 12° 0 | 12°27 | 10°40 | 4°20 | 21°31 | 0° 4 | 28°39 | 7°41 | 12°38 | F 3 |
| S 4 | 6 54 52 | 13°55'57 | 11♍17 | 0°R26 | 6°33 | 17°23 | 12°13 | 12°28 | 10°39 | 4°22 | 21°29 | 29♉58 | 28°36 | 7°48 | 12°37 | S 4 |
| S 5 | 6 58 49 | 14°57'06 | 23°18 | 0°23 | 7°48 | 18° 1 | 12°25 | 12°30 | 10°38 | 4°24 | 21°28 | 29°53 | 28°33 | 7°55 | 12°36 | S 5 |
| M 6 | 7 2 45 | 15°58'15 | 5♎30 | 0° 8 | 9° 4 | 18°39 | 12°38 | 12°32 | 10°37 | 4°25 | 21°27 | 29°51 | 28°30 | 8° 1 | 12°35 | M 6 |
| T 7 | 7 6 42 | 16°59'24 | 17°56 | 29♑42 | 10°19 | 19°17 | 12°50 | 12°33 | 10°37 | 4°27 | 21°25 | 29°D50 | 28°27 | 8° 8 | 12°34 | T 7 |
| W 8 | 7 10 39 | 18° 0'32 | 0♏42 | 29° 4 | 11°35 | 19°55 | 13° 2 | 12°35 | 10°36 | 4°29 | 21°24 | 29°51 | 28°23 | 8°15 | 12°33 | W 8 |
| T 9 | 7 14 35 | 19° 1'41 | 13°52 | 28°15 | 12°50 | 20°33 | 13°14 | 12°36 | 10°36 | 4°30 | 21°23 | 29°52 | 28°20 | 8°22 | 12°33 | T 9 |
| F 10 | 7 18 32 | 20° 2'50 | 27°29 | 27°16 | 14° 5 | 21°11 | 13°27 | 12°38 | 10°35 | 4°32 | 21°21 | 29°R53 | 28°17 | 8°28 | 12°32 | F 10 |
| S 11 | 7 22 28 | 21° 3'58 | 11♐35 | 26°10 | 15°21 | 21°49 | 13°39 | 12°39 | 10°35 | 4°34 | 21°20 | 29°52 | 28°14 | 8°35 | 12°31 | S 11 |
| S 12 | 7 26 25 | 22° 5'06 | 26° 9 | 24°57 | 16°36 | 22°28 | 13°51 | 12°40 | 10°35 | 4°36 | 21°19 | 29°49 | 28°11 | 8°42 | 12°31 | S 12 |
| M13 | 7 30 21 | 23° 6'14 | 11♑ 6 | 23°40 | 17°52 | 23° 6 | 14° 3 | 12°41 | 10°34 | 4°37 | 21°17 | 29°44 | 28° 8 | 8°48 | 12°30 | M13 |
| T 14 | 7 34 18 | 24° 7'22 | 26°19 | 22°22 | 19° 7 | 23°44 | 14°14 | 12°42 | 10°34 | 4°39 | 21°16 | 29°37 | 28° 4 | 8°55 | 12°30 | T 14 |
| W15 | 7 38 15 | 25° 8'28 | 11♒38 | 21° 5 | 20°23 | 24°22 | 14°26 | 12°42 | 10°34 | 4°41 | 21°15 | 29°28 | 28° 1 | 9° 2 | 12°29 | W15 |
| T 16 | 7 42 11 | 26° 9'34 | 26°50 | 19°51 | 21°38 | 25° 0 | 14°38 | 12°43 | 10°34 | 4°43 | 21°13 | 29°19 | 27°58 | 9° 9 | 12°29 | T 16 |
| F 17 | 7 46 8 | 27°10'39 | 11♓45 | 18°42 | 22°53 | 25°38 | 14°50 | 12°43 | 10°34 | 4°45 | 21°12 | 29°11 | 27°55 | 9°15 | 12°29 | F 17 |
| S 18 | 7 50 4 | 28°11'43 | 26°17 | 17°40 | 24° 9 | 26°16 | 15° 1 | 12°44 | 10°D34 | 4°47 | 21°11 | 29° 5 | 27°52 | 9°22 | 12°28 | S 18 |
| S 19 | 7 54 1 | 29°12'45 | 10♈22 | 16°45 | 25°24 | 26°54 | 15°13 | 12°44 | 10°34 | 4°49 | 21°10 | 29° 1 | 27°49 | 9°29 | 12°28 | S 19 |
| M20 | 7 57 57 | 0♒13'47 | 23°58 | 15°59 | 26°40 | 27°32 | 15°24 | 12°44 | 10°34 | 4°51 | 21° 8 | 28°59 | 27°45 | 9°35 | 12°28 | M20 |
| T 21 | 8 1 54 | 1°14'48 | 7♉ 8 | 15°22 | 27°55 | 28°10 | 15°36 | 12°R44 | 10°34 | 4°52 | 21° 7 | 28°D59 | 27°42 | 9°42 | 12°D28 | T 21 |
| W22 | 8 5 50 | 2°15'47 | 19°56 | 14°55 | 29°10 | 28°48 | 15°47 | 12°44 | 10°34 | 4°54 | 21° 6 | 29° 0 | 27°39 | 9°49 | 12°28 | W22 |
| T 23 | 8 9 47 | 3°16'46 | 2♊25 | 14°36 | 0♒26 | 29°26 | 15°58 | 12°44 | 10°34 | 4°56 | 21° 4 | 29°R 0 | 27°36 | 9°56 | 12°28 | T 23 |
| F 24 | 8 13 44 | 4°17'43 | 14°41 | 14°25 | 1°41 | 0♐ 3 | 16° 9 | 12°44 | 10°34 | 4°58 | 21° 3 | 28°58 | 27°33 | 10° 2 | 12°28 | F 24 |
| S 25 | 8 17 40 | 5°18'39 | 26°46 | 14°D23 | 2°56 | 0°41 | 16°20 | 12°44 | 10°35 | 5° 1 | 21° 2 | 28°55 | 27°29 | 10° 9 | 12°29 | S 25 |
| S 26 | 8 21 37 | 6°19'34 | 8♋45 | 14°29 | 4°12 | 1°19 | 16°31 | 12°43 | 10°35 | 5° 3 | 21° 1 | 28°48 | 27°26 | 10°16 | 12°29 | S 26 |
| M27 | 8 25 33 | 7°20'27 | 20°40 | 14°41 | 5°27 | 1°57 | 16°42 | 12°43 | 10°36 | 5° 5 | 20°59 | 28°39 | 27°23 | 10°22 | 12°29 | M27 |
| T 28 | 8 29 30 | 8°21'20 | 2♌32 | 15° 1 | 6°42 | 2°35 | 16°53 | 12°42 | 10°36 | 5° 7 | 20°58 | 28°27 | 27°20 | 10°29 | 12°30 | T 28 |
| W29 | 8 33 26 | 9°22'11 | 14°24 | 15°26 | 7°58 | 3°13 | 17° 3 | 12°41 | 10°37 | 5° 9 | 20°57 | 28°13 | 27°17 | 10°36 | 12°30 | W29 |
| T 30 | 8 37 23 | 10°23'01 | 26°17 | 15°57 | 9°13 | 3°51 | 17°14 | 12°40 | 10°37 | 5°11 | 20°56 | 27°59 | 27°14 | 10°43 | 12°31 | T 30 |
| F 31 | 8 41 19 | 11♒23'50 | 8♍13 | 16♑33 | 10♒28 | 4♐29 | 17♐24 | 12♎39 | 10♉38 | 5♓13 | 20♋54 | 27♉46 | 27♉10 | 10♌49 | 12♉32 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s 2 | 23n25 | 4n41 | 20s35 | 0s18 | 23s39 | 0s12 | 15s44 | 0n48 | 21s38 | 0n35 | 2s40 | 2n26 | 14n41 | 0s23 | 10s43 | 0s49 | 23n22 | 1n38 | 20n15 | 19n55 | 23n 4 | 13n24 | 2s23 |
| T 2 | 22 57 | 20 23 | 5 1 | 20 14 | 0 2 | 23 40 | 0 14 | 15 55 | 0 48 | 21 40 | 0 35 | 2 40 | 2 26 | 14 41 | 0 23 | 10 42 | 0 49 | 23 23 | 1 39 | 20 14 | 19 54 | 23 3 | 13 23 | 2 23 |
| F 3 | 22 51 | 16 31 | 5 8 | 19 53 | 0n14 | 23 39 | 0 17 | 16 7 | 0 47 | 21 41 | 0 35 | 2 41 | 2 26 | 14 41 | 0 23 | 10 42 | 0 49 | 23 23 | 1 39 | 20 12 | 19 54 | 23 1 | 13 23 | 2 23 |
| S 4 | 22 45 | 12 0 | 5 2 | 19 34 | 0 32 | 23 38 | 0 19 | 16 18 | 0 47 | 21 43 | 0 35 | 2 41 | 2 27 | 14 41 | 0 23 | 10 41 | 0 49 | 23 23 | 1 39 | 20 11 | 19 53 | 23 0 | 13 23 | 2 23 |
| S 5 | 22 38 | 7 0 | 4 43 | 19 17 | 0 50 | 23 37 | 0 22 | 16 29 | 0 46 | 21 45 | 0 35 | 2 42 | 2 27 | 14 40 | 0 23 | 10 40 | 0 49 | 23 23 | 1 39 | 20 10 | 19 52 | 22 58 | 13 23 | 2 23 |
| M 6 | 22 31 | 1 39 | 4 11 | 19 2 | 1 9 | 23 34 | 0 24 | 16 40 | 0 46 | 21 46 | 0 35 | 2 42 | 2 27 | 14 40 | 0 23 | 10 40 | 0 49 | 23 24 | 1 39 | 20 9 | 19 52 | 22 57 | 13 22 | 2 23 |
| T 7 | 22 24 | 3s52 | 3 26 | 18 49 | 1 28 | 23 31 | 0 26 | 16 51 | 0 45 | 21 48 | 0 35 | 2 42 | 2 27 | 14 40 | 0 23 | 10 39 | 0 49 | 23 24 | 1 39 | 20 9 | 19 51 | 22 55 | 13 22 | 2 23 |
| W 8 | 22 16 | 9 23 | 2 31 | 18 38 | 1 47 | 23 27 | 0 28 | 17 2 | 0 45 | 21 50 | 0 35 | 2 43 | 2 28 | 14 40 | 0 23 | 10 39 | 0 49 | 23 24 | 1 39 | 20 9 | 19 50 | 22 54 | 13 22 | 2 23 |
| T 9 | 22 8 | 14 40 | 1 25 | 18 30 | 2 5 | 23 22 | 0 31 | 17 12 | 0 44 | 21 51 | 0 35 | 2 43 | 2 28 | 14 40 | 0 23 | 10 38 | 0 49 | 23 25 | 1 39 | 20 9 | 19 49 | 22 52 | 13 22 | 2 23 |
| F 10 | 21 59 | 19 25 | 0 13 | 18 24 | 2 23 | 23 17 | 0 33 | 17 23 | 0 44 | 21 53 | 0 35 | 2 43 | 2 28 | 14 40 | 0 23 | 10 37 | 0 49 | 23 25 | 1 39 | 20 10 | 19 49 | 22 51 | 13 22 | 2 23 |
| S 11 | 21 50 | 23 15 | 1s 3 | 18 21 | 2 39 | 23 11 | 0 35 | 17 33 | 0 43 | 21 54 | 0 35 | 2 43 | 2 29 | 14 40 | 0 23 | 10 37 | 0 49 | 23 25 | 1 39 | 20 9 | 19 48 | 22 49 | 13 21 | 2 23 |
| S 12 | 21 40 | 25 42 | 2 16 | 18 20 | 2 53 | 23 4 | 0 37 | 17 44 | 0 43 | 21 56 | 0 35 | 2 44 | 2 29 | 14 40 | 0 23 | 10 36 | 0 49 | 23 25 | 1 39 | 20 9 | 19 47 | 22 48 | 13 21 | 2 23 |
| M13 | 21 30 | 26 23 | 3 22 | 18 21 | 3 6 | 22 56 | 0 39 | 17 54 | 0 42 | 21 57 | 0 35 | 2 44 | 2 29 | 14 39 | 0 23 | 10 35 | 0 49 | 23 26 | 1 39 | 20 8 | 19 47 | 22 46 | 13 21 | 2 23 |
| T 14 | 21 19 | 25 6 | 4 15 | 18 24 | 3 16 | 22 48 | 0 42 | 18 4 | 0 42 | 21 58 | 0 35 | 2 44 | 2 29 | 14 39 | 0 23 | 10 35 | 0 49 | 23 26 | 1 39 | 20 6 | 19 46 | 22 45 | 13 21 | 2 23 |
| W15 | 21 9 | 21 58 | 4 50 | 18 29 | 3 23 | 22 39 | 0 44 | 18 14 | 0 41 | 22 0 | 0 35 | 2 44 | 2 30 | 14 39 | 0 23 | 10 34 | 0 49 | 23 26 | 1 39 | 20 4 | 19 45 | 22 43 | 13 21 | 2 22 |
| T 16 | 20 57 | 17 21 | 5 5 | 18 35 | 3 28 | 22 29 | 0 46 | 18 23 | 0 41 | 22 1 | 0 35 | 2 44 | 2 30 | 14 39 | 0 23 | 10 33 | 0 49 | 23 27 | 1 40 | 20 2 | 19 45 | 22 42 | 13 21 | 2 22 |
| F 17 | 20 46 | 11 45 | 4 58 | 18 42 | 3 31 | 22 19 | 0 48 | 18 33 | 0 40 | 22 3 | 0 35 | 2 44 | 2 30 | 14 39 | 0 23 | 10 33 | 0 49 | 23 27 | 1 40 | 20 1 | 19 44 | 22 40 | 13 21 | 2 22 |
| S 18 | 20 34 | 5 38 | 4 31 | 18 50 | 3 31 | 22 8 | 0 50 | 18 42 | 0 40 | 22 4 | 0 35 | 2 44 | 2 31 | 14 39 | 0 23 | 10 32 | 0 49 | 23 27 | 1 40 | 19 59 | 19 43 | 22 38 | 13 21 | 2 22 |
| S 19 | 20 21 | 0n36 | 3 49 | 18 59 | 3 29 | 21 56 | 0 52 | 18 52 | 0 39 | 22 5 | 0 35 | 2 43 | 2 31 | 14 39 | 0 23 | 10 31 | 0 49 | 23 27 | 1 40 | 19 58 | 19 42 | 22 37 | 13 21 | 2 22 |
| M20 | 20 8 | 6 36 | 2 56 | 19 8 | 3 25 | 21 44 | 0 53 | 19 1 | 0 38 | 22 6 | 0 35 | 2 43 | 2 31 | 14 39 | 0 23 | 10 30 | 0 49 | 23 28 | 1 40 | 19 58 | 19 42 | 22 35 | 13 21 | 2 22 |
| T 21 | 19 55 | 12 7 | 1 54 | 19 18 | 3 19 | 21 31 | 0 55 | 19 10 | 0 38 | 22 8 | 0 35 | 2 43 | 2 31 | 14 40 | 0 23 | 10 30 | 0 49 | 23 28 | 1 40 | 19 58 | 19 41 | 22 34 | 13 21 | 2 22 |
| W22 | 19 41 | 16 59 | 0 48 | 19 27 | 3 12 | 21 17 | 0 57 | 19 19 | 0 37 | 22 9 | 0 35 | 2 43 | 2 32 | 14 40 | 0 23 | 10 29 | 0 49 | 23 28 | 1 40 | 19 58 | 19 40 | 22 32 | 13 21 | 2 22 |
| T 23 | 19 27 | 20 59 | 0n18 | 19 37 | 3 4 | 21 3 | 0 59 | 19 28 | 0 37 | 22 10 | 0 34 | 2 42 | 2 32 | 14 40 | 0 23 | 10 28 | 0 49 | 23 28 | 1 40 | 19 58 | 19 40 | 22 31 | 13 21 | 2 22 |
| F 24 | 19 13 | 23 58 | 1 23 | 19 47 | 2 55 | 20 48 | 1 1 | 19 37 | 0 36 | 22 11 | 0 34 | 2 42 | 2 32 | 14 40 | 0 23 | 10 27 | 0 49 | 23 29 | 1 40 | 19 58 | 19 39 | 22 29 | 13 21 | 2 22 |
| S 25 | 18 58 | 25 48 | 2 22 | 19 57 | 2 46 | 20 33 | 1 2 | 19 45 | 0 35 | 22 12 | 0 34 | 2 42 | 2 33 | 14 40 | 0 22 | 10 27 | 0 49 | 23 29 | 1 40 | 19 57 | 19 38 | 22 27 | 13 21 | 2 22 |
| S 26 | 18 43 | 26 26 | 3 14 | 20 7 | 2 36 | 20 17 | 1 4 | 19 54 | 0 35 | 22 14 | 0 34 | 2 41 | 2 33 | 14 40 | 0 22 | 10 26 | 0 49 | 23 29 | 1 40 | 19 56 | 19 37 | 22 26 | 13 22 | 2 22 |
| M27 | 18 28 | 25 49 | 3 58 | 20 16 | 2 25 | 20 0 | 1 5 | 20 2 | 0 34 | 22 15 | 0 34 | 2 41 | 2 33 | 14 40 | 0 22 | 10 25 | 0 49 | 23 29 | 1 40 | 19 54 | 19 37 | 22 24 | 13 22 | 2 22 |
| T 28 | 18 12 | 24 1 | 4 31 | 20 25 | 2 14 | 19 42 | 1 7 | 20 10 | 0 34 | 22 16 | 0 34 | 2 40 | 2 33 | 14 40 | 0 22 | 10 24 | 0 49 | 23 30 | 1 40 | 19 51 | 19 36 | 22 23 | 13 22 | 2 22 |
| W29 | 17 56 | 21 11 | 4 52 | 20 33 | 2 3 | 19 25 | 1 8 | 20 18 | 0 33 | 22 17 | 0 34 | 2 40 | 2 34 | 14 41 | 0 22 | 10 24 | 0 49 | 23 30 | 1 40 | 19 48 | 19 35 | 22 21 | 13 22 | 2 22 |
| T 30 | 17 40 | 17 29 | 5 0 | 20 41 | 1 52 | 19 6 | 1 10 | 20 26 | 0 32 | 22 18 | 0 34 | 2 39 | 2 34 | 14 41 | 0 22 | 10 23 | 0 49 | 23 30 | 1 40 | 19 45 | 19 34 | 22 19 | 13 22 | 2 22 |
| F 31 | 17s23 | 13n 4 | 4n56 | 20s47 | 1n41 | 18s47 | 1s11 | 20s33 | 0n32 | 22s19 | 0n34 | 2s38 | 2n34 | 14n41 | 0s22 | 10s22 | 0s49 | 23n30 | 1n40 | 19n42 | 19n34 | 22n18 | 13n23 | 2s22 |

Julian Day Number = 2337224.5, Delta T = 19.88 sec
Ecliptic obliquity = 23°28'52, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'16, Lahiri = 19°29'17Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## FEBRUARY 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 45 16 | 12♒24'38 | 20♍12 | 17♉14 | 11♒44 | 5♐ 6 | 17♐35 | 12°R38 | 10♉39 | 5♓15 | 20°R53 | 27°R34 | 27♉ 7 | 10♌56 | 12♉32 | S 1 |
| S 2 | 8 49 13 | 13°25'25 | 2♎17 | 17°59 | 12°59 | 5°44 | 17°45 | 12♎37 | 10°39 | 5°17 | 20♋52 | 27♉25 | 27° 4 | 11° 3 | 12°33 | S 2 |
| M 3 | 8 53 9 | 14°26'11 | 14°30 | 18°47 | 14°14 | 6°22 | 17°55 | 12°36 | 10°40 | 5°19 | 20°51 | 27°18 | 27° 1 | 11°10 | 12°34 | M 3 |
| T 4 | 8 57 6 | 15°26'56 | 26°56 | 19°40 | 15°29 | 7° 0 | 18° 5 | 12°34 | 10°41 | 5°22 | 20°50 | 27°15 | 26°58 | 11°16 | 12°35 | T 4 |
| W 5 | 9 1 2 | 16°27'39 | 9♏38 | 20°35 | 16°45 | 7°37 | 18°15 | 12°33 | 10°42 | 5°24 | 20°48 | 27°14 | 26°55 | 11°23 | 12°36 | W 5 |
| T 6 | 9 4 59 | 17°28'22 | 22°40 | 21°34 | 18° 0 | 8°15 | 18°25 | 12°31 | 10°43 | 5°26 | 20°47 | 27°13 | 26°51 | 11°30 | 12°37 | T 6 |
| F 7 | 9 8 55 | 18°29'04 | 6♐ 7 | 22°35 | 19°15 | 8°53 | 18°35 | 12°30 | 10°44 | 5°28 | 20°46 | 27°13 | 26°48 | 11°36 | 12°38 | F 7 |
| S 8 | 9 12 52 | 19°29'45 | 20° 1 | 23°39 | 20°30 | 9°30 | 18°45 | 12°28 | 10°45 | 5°30 | 20°45 | 27°12 | 26°45 | 11°43 | 12°39 | S 8 |
| S 9 | 9 16 48 | 20°30'24 | 4♑23 | 24°45 | 21°45 | 10° 8 | 18°54 | 12°26 | 10°46 | 5°33 | 20°44 | 27° 8 | 26°42 | 11°50 | 12°40 | S 9 |
| M10 | 9 20 45 | 21°31'02 | 19°11 | 25°53 | 23° 1 | 10°46 | 19° 4 | 12°24 | 10°47 | 5°35 | 20°43 | 27° 1 | 26°39 | 11°57 | 12°42 | M10 |
| T 11 | 9 24 42 | 22°31'39 | 4♒19 | 27° 4 | 24°16 | 11°23 | 19°13 | 12°22 | 10°48 | 5°37 | 20°42 | 26°52 | 26°35 | 12° 3 | 12°43 | T 11 |
| W12 | 9 28 38 | 23°32'15 | 19°39 | 28°16 | 25°31 | 12° 1 | 19°22 | 12°20 | 10°50 | 5°39 | 20°41 | 26°41 | 26°32 | 12°10 | 12°44 | W12 |
| T 13 | 9 32 35 | 24°32'49 | 4♓57 | 29°30 | 26°46 | 12°39 | 19°31 | 12°17 | 10°51 | 5°41 | 20°39 | 26°29 | 26°29 | 12°17 | 12°46 | T 13 |
| F 14 | 9 36 31 | 25°33'21 | 20° 4 | 0♒46 | 28° 1 | 13°16 | 19°40 | 12°15 | 10°52 | 5°44 | 20°38 | 26°18 | 26°26 | 12°23 | 12°47 | F 14 |
| S 15 | 9 40 28 | 26°33'52 | 4♈49 | 2° 3 | 29°16 | 13°54 | 19°49 | 12°12 | 10°54 | 5°46 | 20°37 | 26° 9 | 26°23 | 12°30 | 12°49 | S 15 |
| S 16 | 9 44 24 | 27°34'20 | 19° 6 | 3°22 | 0♓31 | 14°31 | 19°58 | 12°10 | 10°55 | 5°48 | 20°36 | 26° 3 | 26°20 | 12°37 | 12°51 | S 16 |
| M17 | 9 48 21 | 28°34'47 | 2♉53 | 4°42 | 1°46 | 15° 8 | 20° 6 | 12° 7 | 10°57 | 5°50 | 20°35 | 25°59 | 26°16 | 12°44 | 12°52 | M17 |
| T 18 | 9 52 17 | 29°35'12 | 16°10 | 6° 3 | 3° 2 | 15°46 | 20°15 | 12° 4 | 10°58 | 5°53 | 20°34 | 25°58 | 26°13 | 12°50 | 12°54 | T 18 |
| W19 | 9 56 14 | 0♓35'35 | 29° 1 | 7°26 | 4°17 | 16°23 | 20°23 | 12° 2 | 11° 0 | 5°55 | 20°33 | 25°58 | 26°10 | 12°57 | 12°56 | W19 |
| T 20 | 10 0 11 | 1°35'56 | 11♊30 | 8°50 | 5°32 | 17° 1 | 20°31 | 11°59 | 11° 2 | 5°57 | 20°32 | 25°58 | 26° 7 | 13° 4 | 12°58 | T 20 |
| F 21 | 10 4 7 | 2°36'15 | 23°43 | 10°15 | 6°47 | 17°38 | 20°39 | 11°56 | 11° 3 | 6° 0 | 20°32 | 25°56 | 26° 4 | 13°10 | 13° 0 | F 21 |
| S 22 | 10 8 4 | 3°36'32 | 5♋45 | 11°42 | 8° 2 | 18°15 | 20°47 | 11°53 | 11° 5 | 6° 2 | 20°31 | 25°53 | 26° 1 | 13°17 | 13° 2 | S 22 |
| S 23 | 10 12 0 | 4°36'48 | 17°39 | 13°10 | 9°17 | 18°52 | 20°55 | 11°50 | 11° 7 | 6° 4 | 20°30 | 25°46 | 25°57 | 13°24 | 13° 4 | S 23 |
| M24 | 10 15 57 | 5°37'01 | 29°30 | 14°38 | 10°32 | 19°30 | 21° 3 | 11°46 | 11° 9 | 6° 6 | 20°29 | 25°37 | 25°54 | 13°31 | 13° 6 | M24 |
| T 25 | 10 19 53 | 6°37'12 | 11♌21 | 16° 8 | 11°47 | 20° 7 | 21°10 | 11°43 | 11°11 | 6° 9 | 20°28 | 25°25 | 25°51 | 13°37 | 13° 8 | T 25 |
| W26 | 10 23 50 | 7°37'21 | 23°14 | 17°39 | 13° 1 | 20°44 | 21°18 | 11°40 | 11°12 | 6°11 | 20°27 | 25°11 | 25°48 | 13°44 | 13°11 | W26 |
| T 27 | 10 27 46 | 8°37'28 | 5♍11 | 19°12 | 14°16 | 21°21 | 21°25 | 11°36 | 11°14 | 6°13 | 20°26 | 24°57 | 25°45 | 13°51 | 13°13 | T 27 |
| F 28 | 10 31 43 | 9♓37'34 | 17♍13 | 20♒45 | 15♓31 | 21♐58 | 21♐32 | 11♎33 | 11♉16 | 6♓16 | 20♋26 | 24♉43 | 25♉41 | 13♌58 | 13♉15 | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 7 | 8n 9 | 4n38 | 20s54 | 1n29 | 18s28 | 1s12 | 20s41 | 0n31 | 22s20 | 0n34 | 2s38 | 2n34 | 14n41 | 0s22 | 10s21 | 0s49 | 23n31 | 1n40 | 19n39 | 19n33 | 22n16 | 13n23 | 2s21 |
| S 2 | 16 49 | 2 52 | 4 7 | 20 59 | 1 18 | 18 8 | 1 14 | 20 48 | 0 30 | 22 21 | 0 34 | 2 37 | 2 35 | 14 42 | 0 22 | 10 21 | 0 49 | 23 31 | 1 41 | 19 37 | 19 32 | 22 14 | 13 23 | 2 21 |
| M 3 | 16 32 | 2s34 | 3 25 | 21 3 | 1 7 | 17 47 | 1 15 | 20 56 | 0 29 | 22 22 | 0 34 | 2 36 | 2 35 | 14 42 | 0 22 | 10 20 | 0 49 | 23 31 | 1 41 | 19 36 | 19 32 | 22 13 | 13 23 | 2 21 |
| T 4 | 16 14 | 8 1 | 2 33 | 21 6 | 0 57 | 17 26 | 1 16 | 21 3 | 0 29 | 22 23 | 0 34 | 2 36 | 2 35 | 14 42 | 0 22 | 10 19 | 0 49 | 23 31 | 1 41 | 19 35 | 19 31 | 22 11 | 13 24 | 2 21 |
| W 5 | 15 56 | 13 17 | 1 32 | 21 9 | 0 46 | 17 4 | 1 17 | 21 10 | 0 28 | 22 23 | 0 34 | 2 35 | 2 36 | 14 43 | 0 22 | 10 18 | 0 49 | 23 32 | 1 41 | 19 34 | 19 30 | 22 9 | 13 24 | 2 21 |
| T 6 | 15 37 | 18 5 | 0 24 | 21 10 | 0 36 | 16 42 | 1 18 | 21 16 | 0 27 | 22 24 | 0 34 | 2 34 | 2 36 | 14 43 | 0 22 | 10 17 | 0 49 | 23 32 | 1 41 | 19 34 | 19 29 | 22 8 | 13 25 | 2 21 |
| F 7 | 15 19 | 22 8 | 0s47 | 21 10 | 0 26 | 16 20 | 1 19 | 21 23 | 0 26 | 22 25 | 0 34 | 2 33 | 2 36 | 14 43 | 0 22 | 10 17 | 0 49 | 23 32 | 1 41 | 19 34 | 19 29 | 22 6 | 13 25 | 2 21 |
| S 8 | 15 0 | 25 3 | 1 57 | 21 9 | 0 16 | 15 57 | 1 20 | 21 30 | 0 26 | 22 26 | 0 34 | 2 32 | 2 36 | 14 44 | 0 22 | 10 16 | 0 49 | 23 32 | 1 41 | 19 34 | 19 28 | 22 4 | 13 25 | 2 21 |
| S 9 | 14 41 | 26 27 | 3 3 | 21 7 | 0 6 | 15 33 | 1 21 | 21 36 | 0 25 | 22 27 | 0 34 | 2 31 | 2 37 | 14 44 | 0 22 | 10 15 | 0 49 | 23 32 | 1 41 | 19 33 | 19 27 | 22 3 | 13 26 | 2 21 |
| M10 | 14 21 | 26 2 | 3 58 | 21 4 | 0s 3 | 15 10 | 1 22 | 21 42 | 0 24 | 22 28 | 0 34 | 2 30 | 2 37 | 14 44 | 0 22 | 10 14 | 0 49 | 23 33 | 1 41 | 19 32 | 19 26 | 22 1 | 13 26 | 2 21 |
| T 11 | 14 2 | 23 42 | 4 37 | 20 59 | 0 12 | 14 45 | 1 23 | 21 48 | 0 23 | 22 28 | 0 34 | 2 29 | 2 37 | 14 45 | 0 22 | 10 13 | 0 49 | 23 33 | 1 41 | 19 29 | 19 26 | 21 59 | 13 27 | 2 21 |
| W12 | 13 42 | 19 39 | 4 58 | 20 53 | 0 21 | 14 21 | 1 23 | 21 54 | 0 23 | 22 29 | 0 34 | 2 28 | 2 37 | 14 45 | 0 22 | 10 12 | 0 49 | 23 33 | 1 41 | 19 27 | 19 25 | 21 57 | 13 27 | 2 21 |
| T 13 | 13 22 | 14 18 | 4 57 | 20 47 | 0 30 | 13 56 | 1 24 | 22 0 | 0 22 | 22 30 | 0 34 | 2 27 | 2 38 | 14 46 | 0 22 | 10 12 | 0 49 | 23 33 | 1 41 | 19 24 | 19 24 | 21 56 | 13 28 | 2 21 |
| F 14 | 13 1 | 8 9 | 4 35 | 20 38 | 0 38 | 13 30 | 1 24 | 22 5 | 0 21 | 22 31 | 0 34 | 2 26 | 2 38 | 14 46 | 0 22 | 10 11 | 0 49 | 23 33 | 1 41 | 19 22 | 19 23 | 21 54 | 13 28 | 2 21 |
| S 15 | 12 41 | 1 41 | 3 55 | 20 29 | 0 46 | 13 4 | 1 25 | 22 11 | 0 20 | 22 31 | 0 34 | 2 24 | 2 38 | 14 46 | 0 22 | 10 10 | 0 49 | 23 34 | 1 41 | 19 19 | 19 23 | 21 52 | 13 29 | 2 21 |
| S 16 | 12 20 | 4n42 | 3 1 | 20 18 | 0 53 | 12 38 | 1 25 | 22 16 | 0 19 | 22 32 | 0 34 | 2 23 | 2 38 | 14 47 | 0 22 | 10 9 | 0 49 | 23 34 | 1 41 | 19 18 | 19 22 | 21 51 | 13 29 | 2 21 |
| M17 | 11 59 | 10 38 | 1 59 | 20 6 | 1 1 | 12 12 | 1 26 | 22 21 | 0 18 | 22 33 | 0 34 | 2 22 | 2 38 | 14 47 | 0 22 | 10 8 | 0 49 | 23 34 | 1 41 | 19 17 | 19 21 | 21 49 | 13 30 | 2 21 |
| T 18 | 11 38 | 15 53 | 0 52 | 19 53 | 1 8 | 11 45 | 1 26 | 22 26 | 0 17 | 22 33 | 0 34 | 2 21 | 2 39 | 14 48 | 0 22 | 10 8 | 0 49 | 23 34 | 1 41 | 19 17 | 19 20 | 21 47 | 13 30 | 2 20 |
| W19 | 11 17 | 20 14 | 0n16 | 19 39 | 1 14 | 11 18 | 1 26 | 22 31 | 0 17 | 22 34 | 0 34 | 2 19 | 2 39 | 14 48 | 0 22 | 10 7 | 0 49 | 23 34 | 1 41 | 19 17 | 19 20 | 21 45 | 13 31 | 2 20 |
| T 20 | 10 55 | 23 33 | 1 21 | 19 23 | 1 21 | 10 50 | 1 26 | 22 35 | 0 16 | 22 34 | 0 34 | 2 18 | 2 39 | 14 49 | 0 22 | 10 6 | 0 49 | 23 35 | 1 41 | 19 17 | 19 19 | 21 43 | 13 32 | 2 20 |
| F 21 | 10 34 | 25 41 | 2 21 | 19 6 | 1 27 | 10 23 | 1 26 | 22 40 | 0 15 | 22 35 | 0 34 | 2 17 | 2 39 | 14 50 | 0 22 | 10 5 | 0 49 | 23 35 | 1 41 | 19 16 | 19 18 | 21 42 | 13 32 | 2 20 |
| S 22 | 10 12 | 26 35 | 3 13 | 18 47 | 1 32 | 9 55 | 1 27 | 22 44 | 0 14 | 22 35 | 0 34 | 2 15 | 2 40 | 14 50 | 0 22 | 10 4 | 0 49 | 23 35 | 1 41 | 19 16 | 19 17 | 21 40 | 13 33 | 2 20 |
| S 23 | 9 50 | 26 14 | 3 57 | 18 27 | 1 38 | 9 26 | 1 26 | 22 48 | 0 13 | 22 36 | 0 34 | 2 14 | 2 40 | 14 51 | 0 22 | 10 3 | 0 49 | 23 35 | 1 41 | 19 14 | 19 17 | 21 38 | 13 34 | 2 20 |
| M24 | 9 28 | 24 41 | 4 30 | 18 6 | 1 43 | 8 58 | 1 26 | 22 52 | 0 12 | 22 37 | 0 34 | 2 12 | 2 40 | 14 51 | 0 22 | 10 3 | 0 49 | 23 35 | 1 41 | 19 12 | 19 16 | 21 36 | 13 34 | 2 20 |
| T 25 | 9 6 | 22 4 | 4 51 | 17 44 | 1 47 | 8 29 | 1 26 | 22 56 | 0 11 | 22 37 | 0 34 | 2 11 | 2 40 | 14 52 | 0 22 | 10 2 | 0 49 | 23 35 | 1 41 | 19 9 | 19 15 | 21 35 | 13 35 | 2 20 |
| W26 | 8 43 | 18 30 | 5 0 | 17 20 | 1 51 | 8 0 | 1 26 | 22 59 | 0 10 | 22 38 | 0 34 | 2 9 | 2 40 | 14 53 | 0 22 | 10 1 | 0 49 | 23 36 | 1 42 | 19 6 | 19 14 | 21 33 | 13 36 | 2 20 |
| T 27 | 8 21 | 14 12 | 4 55 | 16 55 | 1 55 | 7 31 | 1 26 | 23 3 | 0 9 | 22 38 | 0 34 | 2 8 | 2 41 | 14 53 | 0 22 | 10 0 | 0 49 | 23 36 | 1 42 | 19 2 | 19 14 | 21 31 | 13 36 | 2 20 |
| F 28 | 7s58 | 9n19 | 4n37 | 16s29 | 1s59 | 7s 2 | 1s25 | 23s 6 | 0n 8 | 22s38 | 0n34 | 2s 6 | 2n41 | 14n54 | 0s22 | 9s59 | 0s49 | 23n36 | 1n42 | 18n59 | 19n13 | 21n29 | 13n37 | 2s20 |

Julian Day Number = 2337255.5, Delta T = 19.84 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'20, Lahiri = 19°29'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## MARCH 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 35 40 | 10♓37'37 | 29♍20 | 22♒19 | 16♓46 | 22♐35 | 21♐39 | 11°R29 | 11♉18 | 6♓18 | 20°R25 | 24°R31 | 25♉38 | 14♌ 4 | 13♉18 | S 1 |
| S 2 | 10 39 36 | 11°37'39 | 11♎35 | 23°55 | 18° 1 | 23°12 | 21°46 | 11♎25 | 11°21 | 6°20 | 20♋24 | 24♉21 | 25°35 | 14°11 | 13°20 | S 2 |
| M 3 | 10 43 33 | 12°37'39 | 23°59 | 25°32 | 19°16 | 23°49 | 21°53 | 11°22 | 11°23 | 6°22 | 20°23 | 24°15 | 25°32 | 14°18 | 13°23 | M 3 |
| T 4 | 10 47 29 | 13°37'37 | 6♏33 | 27° 9 | 20°31 | 24°26 | 21°59 | 11°18 | 11°25 | 6°25 | 20°23 | 24°11 | 25°29 | 14°24 | 13°25 | T 4 |
| W 5 | 10 51 26 | 14°37'34 | 19°21 | 28°48 | 21°45 | 25° 3 | 22° 6 | 11°14 | 11°27 | 6°27 | 20°22 | 24°D10 | 25°26 | 14°31 | 13°28 | W 5 |
| T 6 | 10 55 22 | 15°37'29 | 2♐25 | 0♓28 | 23° 0 | 25°40 | 22°12 | 11°10 | 11°29 | 6°29 | 20°21 | 24°10 | 25°22 | 14°38 | 13°31 | T 6 |
| F 7 | 10 59 19 | 16°37'22 | 15°47 | 2° 9 | 24°15 | 26°17 | 22°18 | 11° 6 | 11°32 | 6°31 | 20°20 | 24°R10 | 25°19 | 14°45 | 13°33 | F 7 |
| S 8 | 11 3 15 | 17°37'14 | 29°32 | 3°52 | 25°30 | 26°54 | 22°24 | 11° 2 | 11°34 | 6°34 | 20°20 | 24° 9 | 25°16 | 14°51 | 13°36 | S 8 |
| S 9 | 11 7 12 | 18°37'04 | 13♑40 | 5°35 | 26°44 | 27°30 | 22°30 | 10°58 | 11°36 | 6°36 | 20°19 | 24° 7 | 25°13 | 14°58 | 13°39 | S 9 |
| M10 | 11 11 9 | 19°36'52 | 28°11 | 7°20 | 27°59 | 28° 7 | 22°35 | 10°54 | 11°39 | 6°38 | 20°19 | 24° 2 | 25°10 | 15° 5 | 13°42 | M10 |
| T 11 | 11 15 5 | 20°36'39 | 13♒ 0 | 9° 6 | 29°14 | 28°44 | 22°41 | 10°50 | 11°41 | 6°40 | 20°18 | 23°55 | 25° 7 | 15°11 | 13°45 | T 11 |
| W12 | 11 19 2 | 21°36'24 | 28° 2 | 10°53 | 0♈28 | 29°20 | 22°46 | 10°45 | 11°44 | 6°43 | 20°18 | 23°46 | 25° 3 | 15°18 | 13°48 | W12 |
| T 13 | 11 22 58 | 22°36'07 | 13♓ 7 | 12°41 | 1°43 | 29°57 | 22°51 | 10°41 | 11°46 | 6°45 | 20°17 | 23°36 | 25° 0 | 15°25 | 13°51 | T 13 |
| F 14 | 11 26 55 | 23°35'48 | 28° 6 | 14°31 | 2°58 | 0♑33 | 22°56 | 10°37 | 11°49 | 6°47 | 20°17 | 23°27 | 24°57 | 15°32 | 13°54 | F 14 |
| S 15 | 11 30 51 | 24°35'26 | 12♈48 | 16°22 | 4°12 | 1°10 | 23° 1 | 10°32 | 11°51 | 6°49 | 20°16 | 23°19 | 24°54 | 15°38 | 13°57 | S 15 |
| S 16 | 11 34 48 | 25°35'03 | 27° 8 | 18°14 | 5°27 | 1°46 | 23° 6 | 10°28 | 11°54 | 6°51 | 20°16 | 23°14 | 24°51 | 15°45 | 14° 0 | S 16 |
| M17 | 11 38 44 | 26°34'38 | 11♉ 0 | 20° 7 | 6°41 | 2°23 | 23°10 | 10°24 | 11°56 | 6°54 | 20°15 | 23°11 | 24°47 | 15°52 | 14° 3 | M17 |
| T 18 | 11 42 41 | 27°34'10 | 24°23 | 22° 1 | 7°56 | 2°59 | 23°15 | 10°19 | 11°59 | 6°56 | 20°15 | 23°D11 | 24°44 | 15°58 | 14° 6 | T 18 |
| W19 | 11 46 37 | 28°33'40 | 7♊21 | 23°57 | 9°10 | 3°35 | 23°19 | 10°15 | 12° 2 | 6°58 | 20°14 | 23°11 | 24°41 | 16° 5 | 14°10 | W19 |
| T 20 | 11 50 34 | 29°33'08 | 19°56 | 25°54 | 10°25 | 4°11 | 23°23 | 10°10 | 12° 5 | 7° 0 | 20°14 | 23°12 | 24°38 | 16°12 | 14°13 | T 20 |
| F 21 | 11 54 31 | 0♈32'33 | 2♋12 | 27°52 | 11°39 | 4°47 | 23°26 | 10° 6 | 12° 7 | 7° 2 | 20°14 | 23°R13 | 24°35 | 16°19 | 14°16 | F 21 |
| S 22 | 11 58 27 | 1°31'57 | 14°15 | 29°51 | 12°54 | 5°23 | 23°30 | 10° 1 | 12°10 | 7° 4 | 20°13 | 23°12 | 24°32 | 16°25 | 14°20 | S 22 |
| S 23 | 12 2 24 | 2°31'17 | 26°10 | 1♈51 | 14° 8 | 5°59 | 23°33 | 9°56 | 12°13 | 7° 6 | 20°13 | 23° 9 | 24°28 | 16°32 | 14°23 | S 23 |
| M24 | 12 6 20 | 3°30'36 | 8♌ 1 | 3°52 | 15°22 | 6°35 | 23°37 | 9°52 | 12°16 | 7° 8 | 20°13 | 23° 4 | 24°25 | 16°39 | 14°27 | M24 |
| T 25 | 12 10 17 | 4°29'52 | 19°53 | 5°54 | 16°37 | 7°11 | 23°40 | 9°47 | 12°19 | 7°11 | 20°13 | 22°56 | 24°22 | 16°46 | 14°30 | T 25 |
| W26 | 12 14 13 | 5°29'06 | 1♍49 | 7°57 | 17°51 | 7°47 | 23°43 | 9°43 | 12°22 | 7°13 | 20°12 | 22°48 | 24°19 | 16°52 | 14°34 | W26 |
| T 27 | 12 18 10 | 6°28'18 | 13°50 | 10° 0 | 19° 5 | 8°22 | 23°45 | 9°38 | 12°25 | 7°15 | 20°12 | 22°39 | 24°16 | 16°59 | 14°37 | T 27 |
| F 28 | 12 22 6 | 7°27'27 | 26° 0 | 12° 4 | 20°19 | 8°58 | 23°48 | 9°33 | 12°28 | 7°17 | 20°12 | 22°30 | 24°12 | 17° 6 | 14°41 | F 28 |
| S 29 | 12 26 3 | 8°26'34 | 8♎20 | 14° 7 | 21°34 | 9°33 | 23°50 | 9°29 | 12°31 | 7°19 | 20°12 | 22°23 | 24° 9 | 17°12 | 14°44 | S 29 |
| S 30 | 12 30 0 | 9°25'40 | 20°49 | 16°11 | 22°48 | 10° 9 | 23°52 | 9°24 | 12°34 | 7°21 | 20°12 | 22°17 | 24° 6 | 17°19 | 14°48 | S 30 |
| M31 | 12 33 56 | 10♈24'43 | 3♏30 | 18♈14 | 24♈ 2 | 10♑44 | 23♐54 | 9♎19 | 12♉37 | 7♓23 | 20♋12 | 22♉13 | 24♉ 3 | 17♌26 | 14♉52 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s36 | 4n 2 | 4n 7 | 16s 1 | 2s 2 | 6s32 | 1s25 | 23s 9 | 0n 7 | 22s39 | 0n34 | 2s 5 | 2n41 | 14n54 | 0s22 | 9s58 | 0s49 | 23n36 | 1n42 | 18n56 | 19n12 | 21n27 | 13n38 | 2s20 |
| S 2 | 7 13 | 1s27 | 3 25 | 15 32 | 2 4 | 6 3 | 1 25 | 23 12 | 0 6 | 22 39 | 0 34 | 2 3 | 2 41 | 14 55 | 0 22 | 9 58 | 0 49 | 23 36 | 1 42 | 18 54 | 19 11 | 21 25 | 13 39 | 2 20 |
| M 3 | 6 50 | 6 57 | 2 33 | 15 1 | 2 7 | 5 33 | 1 24 | 23 15 | 0 5 | 22 40 | 0 34 | 2 2 | 2 41 | 14 56 | 0 22 | 9 57 | 0 49 | 23 36 | 1 42 | 18 52 | 19 11 | 21 24 | 13 40 | 2 20 |
| T 4 | 6 27 | 12 17 | 1 32 | 14 30 | 2 9 | 5 3 | 1 23 | 23 18 | 0 4 | 22 40 | 0 34 | 2 0 | 2 42 | 14 56 | 0 22 | 9 56 | 0 49 | 23 37 | 1 42 | 18 51 | 19 10 | 21 22 | 13 40 | 2 20 |
| W 5 | 6 4 | 17 11 | 0 26 | 13 57 | 2 10 | 4 33 | 1 23 | 23 21 | 0 3 | 22 41 | 0 34 | 1 58 | 2 42 | 14 57 | 0 21 | 9 55 | 0 49 | 23 37 | 1 42 | 18 51 | 19 9 | 21 20 | 13 41 | 2 20 |
| T 6 | 5 41 | 21 24 | 0s44 | 13 22 | 2 11 | 4 2 | 1 22 | 23 23 | 0 2 | 22 41 | 0 34 | 1 57 | 2 42 | 14 58 | 0 21 | 9 54 | 0 49 | 23 37 | 1 42 | 18 51 | 19 8 | 21 18 | 13 42 | 2 20 |
| F 7 | 5 17 | 24 35 | 1 52 | 12 47 | 2 12 | 3 32 | 1 21 | 23 25 | 0 1 | 22 41 | 0 34 | 1 55 | 2 42 | 14 59 | 0 21 | 9 53 | 0 49 | 23 37 | 1 42 | 18 51 | 19 8 | 21 16 | 13 43 | 2 20 |
| S 8 | 4 54 | 26 25 | 2 56 | 12 10 | 2 12 | 3 1 | 1 20 | 23 27 | 0s 1 | 22 42 | 0 34 | 1 53 | 2 42 | 14 59 | 0 21 | 9 53 | 0 49 | 23 37 | 1 42 | 18 51 | 19 7 | 21 14 | 13 44 | 2 20 |
| S 9 | 4 31 | 26 37 | 3 51 | 11 31 | 2 12 | 2 31 | 1 20 | 23 29 | 0 2 | 22 42 | 0 34 | 1 51 | 2 42 | 15 0 | 0 21 | 9 52 | 0 49 | 23 37 | 1 42 | 18 50 | 19 6 | 21 13 | 13 45 | 2 20 |
| M10 | 4 7 | 25 1 | 4 33 | 10 52 | 2 11 | 2 0 | 1 19 | 23 31 | 0 3 | 22 42 | 0 34 | 1 50 | 2 42 | 15 1 | 0 21 | 9 51 | 0 49 | 23 37 | 1 42 | 18 49 | 19 5 | 21 11 | 13 45 | 2 20 |
| T 11 | 3 44 | 21 42 | 4 58 | 10 11 | 2 10 | 1 30 | 1 18 | 23 33 | 0 4 | 22 43 | 0 34 | 1 48 | 2 43 | 15 2 | 0 21 | 9 50 | 0 49 | 23 37 | 1 42 | 18 47 | 19 5 | 21 9 | 13 46 | 2 20 |
| W12 | 3 20 | 16 54 | 5 2 | 9 29 | 2 8 | 0 59 | 1 16 | 23 34 | 0 5 | 22 43 | 0 34 | 1 46 | 2 43 | 15 2 | 0 21 | 9 49 | 0 49 | 23 38 | 1 42 | 18 45 | 19 4 | 21 7 | 13 47 | 2 20 |
| T 13 | 2 56 | 11 3 | 4 46 | 8 45 | 2 6 | 0 28 | 1 15 | 23 35 | 0 6 | 22 43 | 0 34 | 1 44 | 2 43 | 15 3 | 0 21 | 9 49 | 0 49 | 23 38 | 1 42 | 18 42 | 19 3 | 21 5 | 13 48 | 2 20 |
| F 14 | 2 33 | 4 35 | 4 10 | 8 0 | 2 4 | 0n 3 | 1 14 | 23 36 | 0 8 | 22 43 | 0 34 | 1 43 | 2 43 | 15 4 | 0 21 | 9 48 | 0 49 | 23 38 | 1 42 | 18 40 | 19 2 | 21 3 | 13 49 | 2 20 |
| S 15 | 2 9 | 2n 2 | 3 18 | 7 15 | 2 0 | 0 34 | 1 13 | 23 37 | 0 9 | 22 44 | 0 34 | 1 41 | 2 43 | 15 5 | 0 21 | 9 47 | 0 49 | 23 38 | 1 42 | 18 38 | 19 2 | 21 1 | 13 50 | 2 19 |
| S 16 | 1 45 | 8 22 | 2 15 | 6 27 | 1 57 | 1 4 | 1 11 | 23 38 | 0 10 | 22 44 | 0 34 | 1 39 | 2 43 | 15 6 | 0 21 | 9 46 | 0 49 | 23 38 | 1 42 | 18 37 | 19 1 | 20 59 | 13 51 | 2 19 |
| M17 | 1 22 | 14 8 | 1 5 | 5 39 | 1 53 | 1 35 | 1 10 | 23 39 | 0 11 | 22 44 | 0 34 | 1 37 | 2 43 | 15 7 | 0 21 | 9 45 | 0 49 | 23 38 | 1 42 | 18 36 | 19 0 | 20 57 | 13 52 | 2 19 |
| T 18 | 0 58 | 19 0 | 0n 7 | 4 49 | 1 48 | 2 6 | 1 9 | 23 40 | 0 13 | 22 44 | 0 34 | 1 35 | 2 43 | 15 7 | 0 21 | 9 45 | 0 49 | 23 38 | 1 42 | 18 36 | 18 59 | 20 55 | 13 53 | 2 19 |
| W19 | 0 34 | 22 49 | 1 15 | 3 59 | 1 43 | 2 37 | 1 7 | 23 40 | 0 14 | 22 44 | 0 34 | 1 33 | 2 43 | 15 8 | 0 21 | 9 44 | 0 49 | 23 38 | 1 42 | 18 36 | 18 58 | 20 54 | 13 54 | 2 19 |
| T 20 | 0 11 | 25 24 | 2 18 | 3 7 | 1 37 | 3 7 | 1 6 | 23 40 | 0 15 | 22 45 | 0 34 | 1 32 | 2 44 | 15 9 | 0 21 | 9 43 | 0 49 | 23 38 | 1 42 | 18 36 | 18 58 | 20 52 | 13 55 | 2 19 |
| F 21 | 0n13 | 26 41 | 3 14 | 2 14 | 1 31 | 3 38 | 1 4 | 23 40 | 0 17 | 22 45 | 0 34 | 1 30 | 2 44 | 15 10 | 0 21 | 9 42 | 0 49 | 23 38 | 1 42 | 18 37 | 18 57 | 20 50 | 13 56 | 2 19 |
| S 22 | 0 37 | 26 41 | 3 59 | 1 21 | 1 24 | 4 9 | 1 2 | 23 40 | 0 18 | 22 45 | 0 34 | 1 28 | 2 44 | 15 11 | 0 21 | 9 41 | 0 49 | 23 38 | 1 42 | 18 36 | 18 56 | 20 48 | 13 57 | 2 19 |
| S 23 | 1 0 | 25 26 | 4 34 | 0 26 | 1 17 | 4 39 | 1 1 | 23 40 | 0 19 | 22 45 | 0 34 | 1 26 | 2 44 | 15 12 | 0 21 | 9 41 | 0 49 | 23 38 | 1 42 | 18 36 | 18 55 | 20 46 | 13 58 | 2 19 |
| M24 | 1 24 | 23 4 | 4 56 | 0n29 | 1 9 | 5 9 | 0 59 | 23 40 | 0 21 | 22 45 | 0 34 | 1 24 | 2 44 | 15 13 | 0 21 | 9 40 | 0 49 | 23 39 | 1 42 | 18 34 | 18 55 | 20 44 | 13 59 | 2 19 |
| T 25 | 1 47 | 19 43 | 5 6 | 1 25 | 1 1 | 5 40 | 0 57 | 23 39 | 0 22 | 22 46 | 0 34 | 1 22 | 2 44 | 15 13 | 0 21 | 9 39 | 0 49 | 23 39 | 1 42 | 18 32 | 18 54 | 20 42 | 14 0 | 2 19 |
| W26 | 2 11 | 15 33 | 5 3 | 2 22 | 0 52 | 6 10 | 0 55 | 23 39 | 0 24 | 22 46 | 0 34 | 1 20 | 2 44 | 15 14 | 0 21 | 9 38 | 0 49 | 23 39 | 1 42 | 18 30 | 18 53 | 20 40 | 14 1 | 2 19 |
| T 27 | 2 34 | 10 46 | 4 46 | 3 19 | 0 42 | 6 40 | 0 53 | 23 38 | 0 25 | 22 46 | 0 34 | 1 19 | 2 44 | 15 15 | 0 21 | 9 38 | 0 49 | 23 39 | 1 42 | 18 28 | 18 52 | 20 38 | 14 2 | 2 19 |
| F 28 | 2 58 | 5 31 | 4 16 | 4 16 | 0 33 | 7 10 | 0 52 | 23 37 | 0 27 | 22 46 | 0 34 | 1 17 | 2 44 | 15 16 | 0 21 | 9 37 | 0 49 | 23 39 | 1 42 | 18 26 | 18 51 | 20 36 | 14 3 | 2 19 |
| S 29 | 3 21 | 0s 2 | 3 34 | 5 14 | 0 23 | 7 39 | 0 50 | 23 36 | 0 28 | 22 46 | 0 34 | 1 15 | 2 44 | 15 17 | 0 21 | 9 36 | 0 49 | 23 39 | 1 42 | 18 24 | 18 51 | 20 34 | 14 4 | 2 19 |
| S 30 | 3 45 | 5 39 | 2 41 | 6 11 | 0 12 | 8 9 | 0 48 | 23 35 | 0 30 | 22 46 | 0 34 | 1 13 | 2 44 | 15 18 | 0 21 | 9 35 | 0 49 | 23 39 | 1 42 | 18 22 | 18 50 | 20 32 | 14 5 | 2 19 |
| M31 | 4n 8 | 11s 9 | 1n40 | 7n 9 | 0s 1 | 8n38 | 0s46 | 23s34 | 0s31 | 22s46 | 0n34 | 1s11 | 2n44 | 15n19 | 0s21 | 9s35 | 0s49 | 23n39 | 1n42 | 18n21 | 18n49 | 20n30 | 14n 6 | 2s19 |

Julian Day Number = 2337283.5, Delta T = 19.80 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'24, Lahiri = 19°29'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## APRIL 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 37 53 | 11♈23'44 | 16♏21 | 20♈17 | 25♈16 | 11♑20 | 23♐56 | 9°R15 | 12♉40 | 7♓25 | 20°R12 | 22°D12 | 24♉ 0 | 17♌33 | 14♉56 | T 1 |
| W 2 | 12 41 49 | 12°22'44 | 29°25 | 22°19 | 26°30 | 11°55 | 23°58 | 9♎10 | 12°43 | 7°27 | 20♋12 | 22♉12 | 23°57 | 17°39 | 14°59 | W 2 |
| T 3 | 12 45 46 | 13°21'42 | 12♐42 | 24°19 | 27°44 | 12°30 | 23°59 | 9° 5 | 12°46 | 7°29 | 20°D12 | 22°13 | 23°53 | 17°46 | 15° 3 | T 3 |
| F 4 | 12 49 42 | 14°20'38 | 26°13 | 26°18 | 28°58 | 13° 5 | 24° 1 | 9° 1 | 12°49 | 7°31 | 20°12 | 22°14 | 23°50 | 17°53 | 15° 7 | F 4 |
| S 5 | 12 53 39 | 15°19'32 | 10♑ 0 | 28°14 | 0♉13 | 13°40 | 24° 2 | 8°56 | 12°52 | 7°32 | 20°12 | 22°R15 | 23°47 | 17°59 | 15°11 | S 5 |
| S 6 | 12 57 35 | 16°18'25 | 24° 1 | 0♉ 9 | 1°27 | 14°15 | 24° 3 | 8°52 | 12°55 | 7°34 | 20°12 | 22°15 | 23°44 | 18° 6 | 15°15 | S 6 |
| M 7 | 13 1 32 | 17°17'16 | 8♒18 | 2° 0 | 2°41 | 14°50 | 24° 3 | 8°47 | 12°59 | 7°36 | 20°12 | 22°14 | 23°41 | 18°13 | 15°19 | M 7 |
| T 8 | 13 5 29 | 18°16'05 | 22°47 | 3°48 | 3°54 | 15°25 | 24° 4 | 8°42 | 13° 2 | 7°38 | 20°12 | 22°11 | 23°38 | 18°20 | 15°23 | T 8 |
| W 9 | 13 9 25 | 19°14'53 | 7♓24 | 5°33 | 5° 8 | 15°59 | 24° 4 | 8°38 | 13° 5 | 7°40 | 20°12 | 22° 6 | 23°34 | 18°26 | 15°26 | W 9 |
| T 10 | 13 13 22 | 20°13'38 | 22° 3 | 7°15 | 6°22 | 16°34 | 24°R 4 | 8°33 | 13° 8 | 7°42 | 20°12 | 22° 2 | 23°31 | 18°33 | 15°30 | T 10 |
| F 11 | 13 17 18 | 21°12'22 | 6♈38 | 8°52 | 7°36 | 17° 8 | 24° 4 | 8°29 | 13°12 | 7°43 | 20°13 | 21°57 | 23°28 | 18°40 | 15°34 | F 11 |
| S 12 | 13 21 15 | 22°11'04 | 21° 2 | 10°25 | 8°50 | 17°43 | 24° 4 | 8°24 | 13°15 | 7°45 | 20°13 | 21°53 | 23°25 | 18°47 | 15°39 | S 12 |
| S 13 | 13 25 11 | 23° 9'43 | 5♉ 8 | 11°54 | 10° 4 | 18°17 | 24° 3 | 8°20 | 13°18 | 7°47 | 20°13 | 21°51 | 23°22 | 18°53 | 15°43 | S 13 |
| M14 | 13 29 8 | 24° 8'21 | 18°53 | 13°18 | 11°18 | 18°51 | 24° 3 | 8°15 | 13°22 | 7°49 | 20°13 | 21°D50 | 23°18 | 19° 0 | 15°47 | M14 |
| T 15 | 13 33 4 | 25° 6'57 | 2♊15 | 14°37 | 12°31 | 19°25 | 24° 2 | 8°11 | 13°25 | 7°50 | 20°14 | 21°50 | 23°15 | 19° 7 | 15°51 | T 15 |
| W16 | 13 37 1 | 26° 5'31 | 15°14 | 15°52 | 13°45 | 19°59 | 24° 1 | 8° 7 | 13°28 | 7°52 | 20°14 | 21°51 | 23°12 | 19°13 | 15°55 | W16 |
| T 17 | 13 40 58 | 27° 4'03 | 27°52 | 17° 1 | 14°59 | 20°32 | 24° 0 | 8° 3 | 13°32 | 7°54 | 20°14 | 21°53 | 23° 9 | 19°20 | 15°59 | T 17 |
| F 18 | 13 44 54 | 28° 2'32 | 10♋12 | 18° 5 | 16°13 | 21° 6 | 23°58 | 7°58 | 13°35 | 7°55 | 20°15 | 21°55 | 23° 6 | 19°27 | 16° 3 | F 18 |
| S 19 | 13 48 51 | 29° 1'00 | 22°19 | 19° 4 | 17°26 | 21°39 | 23°57 | 7°54 | 13°38 | 7°57 | 20°15 | 21°56 | 23° 3 | 19°34 | 16° 7 | S 19 |
| S 20 | 13 52 47 | 29°59'25 | 4♌16 | 19°58 | 18°40 | 22°13 | 23°55 | 7°50 | 13°42 | 7°59 | 20°16 | 21°R56 | 22°59 | 19°40 | 16°11 | S 20 |
| M21 | 13 56 44 | 0♉57'48 | 16° 9 | 20°46 | 19°53 | 22°46 | 23°53 | 7°46 | 13°45 | 8° 0 | 20°16 | 21°55 | 22°56 | 19°47 | 16°16 | M21 |
| T 22 | 14 0 40 | 1°56'09 | 28° 3 | 21°29 | 21° 7 | 23°19 | 23°51 | 7°42 | 13°49 | 8° 2 | 20°16 | 21°53 | 22°53 | 19°54 | 16°20 | T 22 |
| W23 | 14 4 37 | 2°54'28 | 10♍ 0 | 22° 6 | 22°20 | 23°52 | 23°49 | 7°38 | 13°52 | 8° 3 | 20°17 | 21°51 | 22°50 | 20° 1 | 16°24 | W23 |
| T 24 | 14 8 33 | 3°52'45 | 22° 6 | 22°38 | 23°34 | 24°25 | 23°46 | 7°34 | 13°55 | 8° 5 | 20°17 | 21°48 | 22°47 | 20° 7 | 16°28 | T 24 |
| F 25 | 14 12 30 | 4°51'00 | 4♎23 | 23° 4 | 24°47 | 24°57 | 23°44 | 7°30 | 13°59 | 8° 6 | 20°18 | 21°45 | 22°43 | 20°14 | 16°33 | F 25 |
| S 26 | 14 16 27 | 5°49'13 | 16°53 | 23°24 | 26° 1 | 25°30 | 23°41 | 7°26 | 14° 2 | 8° 7 | 20°19 | 21°43 | 22°40 | 20°21 | 16°37 | S 26 |
| S 27 | 14 20 23 | 6°47'24 | 29°38 | 23°39 | 27°14 | 26° 2 | 23°38 | 7°22 | 14° 6 | 8° 9 | 20°19 | 21°41 | 22°37 | 20°27 | 16°41 | S 27 |
| M28 | 14 24 20 | 7°45'33 | 12♏37 | 23°49 | 28°28 | 26°34 | 23°35 | 7°19 | 14° 9 | 8°10 | 20°20 | 21°40 | 22°34 | 20°34 | 16°45 | M28 |
| T 29 | 14 28 16 | 8°43'41 | 25°52 | 23°R53 | 29°41 | 27° 6 | 23°31 | 7°15 | 14°13 | 8°12 | 20°20 | 21°D40 | 22°31 | 20°41 | 16°50 | T 29 |
| W30 | 14 32 13 | 9♉41'47 | 9♐19 | 23♉52 | 0♊54 | 27♑38 | 23♐28 | 7♎12 | 14♉16 | 8♓13 | 20♋21 | 21♉41 | 22♉28 | 20♌48 | 16♉54 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n31 | 16s15 | 0n32 | 8n 5 | 0n10 | 9n 7 | 0s43 | 23s32 | 0s33 | 22s46 | 0n34 | 1s 9 | 2n44 | 15n20 | 0s21 | 9s34 | 0s49 | 23n39 | 1n42 | 18n21 | 18n48 | 20n28 | 14n 7 | 2s19 |
| W 2 | 4 54 | 20 42 | 0s39 | 9 2 | 0 21 | 9 36 | 0 41 | 23 31 | 0 34 | 22 46 | 0 34 | 1 7 | 2 44 | 15 21 | 0 21 | 9 33 | 0 49 | 23 39 | 1 42 | 18 21 | 18 47 | 20 26 | 14 8 | 2 19 |
| T 3 | 5 17 | 24 10 | 1 49 | 9 57 | 0 33 | 10 5 | 0 39 | 23 29 | 0 36 | 22 46 | 0 34 | 1 6 | 2 44 | 15 22 | 0 21 | 9 33 | 0 49 | 23 39 | 1 43 | 18 21 | 18 47 | 20 24 | 14 9 | 2 19 |
| F 4 | 5 40 | 26 20 | 2 54 | 10 51 | 0 44 | 10 33 | 0 37 | 23 28 | 0 37 | 22 46 | 0 34 | 1 4 | 2 44 | 15 23 | 0 21 | 9 32 | 0 49 | 23 39 | 1 43 | 18 22 | 18 46 | 20 22 | 14 11 | 2 19 |
| S 5 | 6 3 | 26 56 | 3 51 | 11 44 | 0 55 | 11 1 | 0 35 | 23 26 | 0 39 | 22 47 | 0 34 | 1 2 | 2 44 | 15 24 | 0 21 | 9 31 | 0 49 | 23 39 | 1 43 | 18 22 | 18 45 | 20 20 | 14 12 | 2 19 |
| S 6 | 6 25 | 25 51 | 4 34 | 12 35 | 1 7 | 11 29 | 0 32 | 23 24 | 0 41 | 22 47 | 0 34 | 1 0 | 2 44 | 15 25 | 0 21 | 9 31 | 0 49 | 23 39 | 1 43 | 18 22 | 18 44 | 20 18 | 14 13 | 2 19 |
| M 7 | 6 48 | 23 5 | 5 2 | 13 24 | 1 18 | 11 57 | 0 30 | 23 22 | 0 42 | 22 47 | 0 34 | 0 58 | 2 44 | 15 26 | 0 21 | 9 30 | 0 50 | 23 39 | 1 43 | 18 21 | 18 44 | 20 16 | 14 14 | 2 19 |
| T 8 | 7 10 | 18 50 | 5 11 | 14 12 | 1 28 | 12 25 | 0 28 | 23 19 | 0 44 | 22 47 | 0 34 | 0 57 | 2 44 | 15 27 | 0 21 | 9 29 | 0 50 | 23 39 | 1 43 | 18 21 | 18 43 | 20 14 | 14 15 | 2 19 |
| W 9 | 7 33 | 13 27 | 5 0 | 14 57 | 1 39 | 12 52 | 0 25 | 23 17 | 0 46 | 22 47 | 0 34 | 0 55 | 2 44 | 15 28 | 0 21 | 9 29 | 0 50 | 23 39 | 1 43 | 18 20 | 18 42 | 20 12 | 14 16 | 2 19 |
| T 10 | 7 55 | 7 17 | 4 30 | 15 40 | 1 49 | 13 18 | 0 23 | 23 14 | 0 48 | 22 47 | 0 34 | 0 53 | 2 44 | 15 29 | 0 21 | 9 28 | 0 50 | 23 39 | 1 43 | 18 18 | 18 41 | 20 10 | 14 17 | 2 20 |
| F 11 | 8 17 | 0 46 | 3 42 | 16 21 | 1 58 | 13 45 | 0 21 | 23 12 | 0 49 | 22 47 | 0 34 | 0 51 | 2 44 | 15 30 | 0 21 | 9 27 | 0 50 | 23 39 | 1 43 | 18 17 | 18 40 | 20 8 | 14 18 | 2 20 |
| S 12 | 8 39 | 5n44 | 2 40 | 16 59 | 2 7 | 14 11 | 0 18 | 23 9 | 0 51 | 22 47 | 0 34 | 0 50 | 2 44 | 15 31 | 0 21 | 9 27 | 0 50 | 23 39 | 1 43 | 18 16 | 18 40 | 20 5 | 14 20 | 2 20 |
| S 13 | 9 1 | 11 50 | 1 30 | 17 35 | 2 15 | 14 37 | 0 16 | 23 7 | 0 53 | 22 47 | 0 34 | 0 48 | 2 44 | 15 32 | 0 21 | 9 26 | 0 50 | 23 39 | 1 43 | 18 16 | 18 39 | 20 3 | 14 21 | 2 20 |
| M14 | 9 23 | 17 13 | 0 16 | 18 7 | 2 23 | 15 2 | 0 13 | 23 4 | 0 55 | 22 47 | 0 34 | 0 46 | 2 44 | 15 33 | 0 21 | 9 25 | 0 50 | 23 39 | 1 43 | 18 15 | 18 38 | 20 1 | 14 22 | 2 20 |
| T 15 | 9 44 | 21 35 | 0n57 | 18 38 | 2 29 | 15 27 | 0 11 | 23 1 | 0 57 | 22 47 | 0 34 | 0 45 | 2 44 | 15 34 | 0 21 | 9 25 | 0 50 | 23 39 | 1 43 | 18 15 | 18 37 | 19 59 | 14 23 | 2 20 |
| W16 | 10 6 | 24 44 | 2 5 | 19 5 | 2 35 | 15 52 | 0 8 | 22 58 | 0 59 | 22 47 | 0 34 | 0 43 | 2 44 | 15 35 | 0 21 | 9 24 | 0 50 | 23 39 | 1 43 | 18 16 | 18 36 | 19 57 | 14 24 | 2 20 |
| T 17 | 10 27 | 26 33 | 3 5 | 19 30 | 2 40 | 16 16 | 0 6 | 22 55 | 1 1 | 22 47 | 0 34 | 0 41 | 2 44 | 15 36 | 0 21 | 9 24 | 0 50 | 23 39 | 1 43 | 18 16 | 18 36 | 19 55 | 14 25 | 2 20 |
| F 18 | 10 48 | 27 0 | 3 55 | 19 52 | 2 44 | 16 40 | 0 3 | 22 51 | 1 3 | 22 47 | 0 34 | 0 40 | 2 44 | 15 37 | 0 21 | 9 23 | 0 50 | 23 39 | 1 43 | 18 17 | 18 35 | 19 53 | 14 26 | 2 20 |
| S 19 | 11 9 | 26 8 | 4 34 | 20 12 | 2 47 | 17 4 | 0 0 | 22 48 | 1 5 | 22 47 | 0 34 | 0 38 | 2 43 | 15 38 | 0 21 | 9 22 | 0 50 | 23 39 | 1 43 | 18 17 | 18 34 | 19 51 | 14 27 | 2 20 |
| S 20 | 11 29 | 24 4 | 5 0 | 20 28 | 2 49 | 17 27 | 0n 2 | 22 45 | 1 7 | 22 46 | 0 34 | 0 37 | 2 43 | 15 39 | 0 21 | 9 22 | 0 50 | 23 39 | 1 43 | 18 17 | 18 33 | 19 49 | 14 29 | 2 20 |
| M21 | 11 50 | 21 0 | 5 13 | 20 42 | 2 50 | 17 49 | 0 5 | 22 41 | 1 9 | 22 46 | 0 34 | 0 35 | 2 43 | 15 40 | 0 21 | 9 21 | 0 50 | 23 39 | 1 43 | 18 17 | 18 32 | 19 47 | 14 30 | 2 20 |
| T 22 | 12 10 | 17 3 | 5 13 | 20 53 | 2 49 | 18 11 | 0 7 | 22 38 | 1 11 | 22 46 | 0 34 | 0 34 | 2 43 | 15 41 | 0 21 | 9 21 | 0 50 | 23 39 | 1 43 | 18 16 | 18 32 | 19 45 | 14 31 | 2 20 |
| W23 | 12 30 | 12 26 | 4 59 | 21 2 | 2 48 | 18 33 | 0 10 | 22 34 | 1 13 | 22 46 | 0 34 | 0 32 | 2 43 | 15 42 | 0 21 | 9 20 | 0 50 | 23 39 | 1 43 | 18 16 | 18 31 | 19 42 | 14 32 | 2 20 |
| T 24 | 12 50 | 7 18 | 4 32 | 21 8 | 2 46 | 18 54 | 0 13 | 22 30 | 1 15 | 22 46 | 0 34 | 0 31 | 2 43 | 15 43 | 0 21 | 9 20 | 0 50 | 23 39 | 1 43 | 18 15 | 18 30 | 19 40 | 14 33 | 2 20 |
| F 25 | 13 10 | 1 48 | 3 52 | 21 11 | 2 42 | 19 15 | 0 15 | 22 26 | 1 17 | 22 46 | 0 34 | 0 29 | 2 43 | 15 44 | 0 21 | 9 19 | 0 50 | 23 38 | 1 43 | 18 14 | 18 29 | 19 38 | 14 34 | 2 20 |
| S 26 | 13 29 | 3s52 | 3 0 | 21 11 | 2 37 | 19 35 | 0 18 | 22 23 | 1 19 | 22 46 | 0 34 | 0 28 | 2 43 | 15 45 | 0 21 | 9 19 | 0 50 | 23 38 | 1 43 | 18 14 | 18 28 | 19 36 | 14 36 | 2 20 |
| S 27 | 13 48 | 9 31 | 1 59 | 21 9 | 2 31 | 19 55 | 0 20 | 22 19 | 1 22 | 22 46 | 0 34 | 0 27 | 2 43 | 15 46 | 0 21 | 9 18 | 0 50 | 23 38 | 1 43 | 18 13 | 18 28 | 19 34 | 14 37 | 2 20 |
| M28 | 14 7 | 14 52 | 0 50 | 21 4 | 2 23 | 20 14 | 0 23 | 22 15 | 1 24 | 22 46 | 0 34 | 0 25 | 2 42 | 15 47 | 0 21 | 9 18 | 0 50 | 23 38 | 1 43 | 18 13 | 18 27 | 19 32 | 14 38 | 2 20 |
| T 29 | 14 26 | 19 38 | 0s23 | 20 57 | 2 15 | 20 32 | 0 26 | 22 11 | 1 26 | 22 46 | 0 34 | 0 24 | 2 42 | 15 48 | 0 21 | 9 17 | 0 50 | 23 38 | 1 43 | 18 13 | 18 26 | 19 30 | 14 39 | 2 20 |
| W30 | 14n45 | 23s28 | 1s36 | 20n47 | 2n 5 | 20n50 | 0n28 | 22s 7 | 1s28 | 22s45 | 0n34 | 0s23 | 2n42 | 15n49 | 0s21 | 9s17 | 0s50 | 23n38 | 1n43 | 18n13 | 18n25 | 19n27 | 14n40 | 2s20 |

Julian Day Number = 2337314.5, Delta T = 19.76 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'29, Lahiri = 19°29'29Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## MAY 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 36 9 | 10♉39'51 | 23♐ 0 | 23°R46 | 2♊ 7 | 28♑10 | 23°R24 | 7°R 8 | 14♉20 | 8♓14 | 20♋22 | 21♉42 | 22♉24 | 20♌54 | 16♉58 | T 1 |
| F 2 | 14 40 6 | 11°37'54 | 6♑51 | 23♉35 | 3°21 | 28°42 | 23♐20 | 7♎ 5 | 14°23 | 8°15 | 20°22 | 21°42 | 22°21 | 21° 1 | 17° 3 | F 2 |
| S 3 | 14 44 2 | 12°35'56 | 20°51 | 23°19 | 4°34 | 29°13 | 23°16 | 7° 1 | 14°27 | 8°17 | 20°23 | 21°43 | 22°18 | 21° 8 | 17° 7 | S 3 |
| S 4 | 14 47 59 | 13°33'56 | 4♒59 | 22°59 | 5°47 | 29°44 | 23°12 | 6°58 | 14°30 | 8°18 | 20°24 | 21°44 | 22°15 | 21°14 | 17°11 | S 4 |
| M 5 | 14 51 56 | 14°31'56 | 19°12 | 22°36 | 7° 0 | 0♒15 | 23° 8 | 6°55 | 14°34 | 8°19 | 20°25 | 21°R44 | 22°12 | 21°21 | 17°16 | M 5 |
| T 6 | 14 55 52 | 15°29'53 | 3♓28 | 22° 9 | 8°13 | 0°46 | 23° 3 | 6°52 | 14°37 | 8°20 | 20°25 | 21°43 | 22° 9 | 21°28 | 17°20 | T 6 |
| W 7 | 14 59 49 | 16°27'50 | 17°43 | 21°39 | 9°26 | 1°16 | 22°58 | 6°49 | 14°41 | 8°21 | 20°26 | 21°43 | 22° 5 | 21°35 | 17°24 | W 7 |
| T 8 | 15 3 45 | 17°25'45 | 1♈56 | 21° 7 | 10°39 | 1°47 | 22°54 | 6°46 | 14°44 | 8°22 | 20°27 | 21°42 | 22° 2 | 21°41 | 17°29 | T 8 |
| F 9 | 15 7 42 | 18°23'38 | 16° 2 | 20°33 | 11°52 | 2°17 | 22°49 | 6°43 | 14°47 | 8°24 | 20°28 | 21°42 | 21°59 | 21°48 | 17°33 | F 9 |
| S 10 | 15 11 38 | 19°21'31 | 29°58 | 19°58 | 13° 5 | 2°47 | 22°44 | 6°40 | 14°51 | 8°25 | 20°29 | 21°42 | 21°56 | 21°55 | 17°37 | S 10 |
| S 11 | 15 15 35 | 20°19'22 | 13♉41 | 19°23 | 14°18 | 3°17 | 22°38 | 6°37 | 14°54 | 8°26 | 20°30 | 21°42 | 21°53 | 22° 2 | 17°42 | S 11 |
| M12 | 15 19 31 | 21°17'12 | 27° 8 | 18°47 | 15°31 | 3°46 | 22°33 | 6°35 | 14°58 | 8°27 | 20°31 | 21°42 | 21°49 | 22° 8 | 17°46 | M12 |
| T 13 | 15 23 28 | 22°15'00 | 10♊18 | 18°13 | 16°44 | 4°15 | 22°27 | 6°32 | 15° 1 | 8°27 | 20°32 | 21°42 | 21°46 | 22°15 | 17°50 | T 13 |
| W14 | 15 27 25 | 23°12'47 | 23°10 | 17°39 | 17°57 | 4°44 | 22°22 | 6°30 | 15° 5 | 8°28 | 20°33 | 21°42 | 21°43 | 22°22 | 17°55 | W14 |
| T 15 | 15 31 21 | 24°10'32 | 5♋45 | 17° 8 | 19°10 | 5°13 | 22°16 | 6°27 | 15° 8 | 8°29 | 20°34 | 21°41 | 21°40 | 22°28 | 17°59 | T 15 |
| F 16 | 15 35 18 | 25° 8'16 | 18° 4 | 16°39 | 20°22 | 5°42 | 22°10 | 6°25 | 15°12 | 8°30 | 20°35 | 21°41 | 21°37 | 22°35 | 18° 3 | F 16 |
| S 17 | 15 39 14 | 26° 5'58 | 0♌12 | 16°13 | 21°35 | 6°10 | 22° 4 | 6°23 | 15°15 | 8°31 | 20°36 | 21°41 | 21°34 | 22°42 | 18° 8 | S 17 |
| S 18 | 15 43 11 | 27° 3'39 | 12°10 | 15°50 | 22°48 | 6°38 | 21°58 | 6°21 | 15°19 | 8°32 | 20°37 | 21°40 | 21°30 | 22°49 | 18°12 | S 18 |
| M19 | 15 47 7 | 28° 1'18 | 24° 4 | 15°30 | 24° 1 | 7° 5 | 21°51 | 6°19 | 15°22 | 8°32 | 20°38 | 21°D40 | 21°27 | 22°55 | 18°16 | M19 |
| T 20 | 15 51 4 | 28°58'55 | 5♍58 | 15°15 | 25°13 | 7°33 | 21°45 | 6°17 | 15°25 | 8°33 | 20°39 | 21°40 | 21°24 | 23° 2 | 18°20 | T 20 |
| W21 | 15 55 0 | 29°56'31 | 17°56 | 15° 3 | 26°26 | 8° 0 | 21°38 | 6°15 | 15°29 | 8°34 | 20°40 | 21°40 | 21°21 | 23° 9 | 18°25 | W21 |
| T 22 | 15 58 57 | 0♊54'06 | 0♎ 4 | 14°56 | 27°38 | 8°27 | 21°32 | 6°13 | 15°32 | 8°35 | 20°41 | 21°41 | 21°18 | 23°16 | 18°29 | T 22 |
| F 23 | 16 2 54 | 1°51'39 | 12°24 | 14°D53 | 28°51 | 8°53 | 21°25 | 6°11 | 15°36 | 8°35 | 20°42 | 21°42 | 21°15 | 23°22 | 18°33 | F 23 |
| S 24 | 16 6 50 | 2°49'11 | 25° 1 | 14°55 | 0♋ 3 | 9°19 | 21°18 | 6°10 | 15°39 | 8°36 | 20°43 | 21°43 | 21°11 | 23°29 | 18°37 | S 24 |
| S 25 | 16 10 47 | 3°46'41 | 7♏56 | 15° 1 | 1°16 | 9°45 | 21°11 | 6° 8 | 15°42 | 8°36 | 20°44 | 21°44 | 21° 8 | 23°36 | 18°42 | S 25 |
| M26 | 16 14 43 | 4°44'11 | 21°12 | 15°12 | 2°28 | 10°11 | 21° 4 | 6° 7 | 15°46 | 8°37 | 20°46 | 21°R44 | 21° 5 | 23°42 | 18°46 | M26 |
| T 27 | 16 18 40 | 5°41'39 | 4♐47 | 15°27 | 3°40 | 10°36 | 20°57 | 6° 6 | 15°49 | 8°37 | 20°47 | 21°44 | 21° 2 | 23°49 | 18°50 | T 27 |
| W28 | 16 22 36 | 6°39'06 | 18°41 | 15°46 | 4°53 | 11° 1 | 20°50 | 6° 5 | 15°52 | 8°38 | 20°48 | 21°43 | 20°59 | 23°56 | 18°54 | W28 |
| T 29 | 16 26 33 | 7°36'33 | 2♑49 | 16°10 | 6° 5 | 11°26 | 20°43 | 6° 4 | 15°56 | 8°38 | 20°49 | 21°41 | 20°55 | 24° 3 | 18°59 | T 29 |
| F 30 | 16 30 29 | 8°33'58 | 17° 7 | 16°38 | 7°17 | 11°50 | 20°36 | 6° 3 | 15°59 | 8°39 | 20°50 | 21°39 | 20°52 | 24° 9 | 19° 3 | F 30 |
| S 31 | 16 34 26 | 9♊31'23 | 1♒31 | 17♉11 | 8♋29 | 12♒14 | 20♐28 | 6♎ 2 | 16♉ 2 | 8♓39 | 20♋52 | 21♉37 | 20♉49 | 24♌16 | 19♉ 7 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n 3 | 26s 2 | 2s45 | 20n35 | 1n54 | 21n 8 | 0n31 | 22s 3 | 1s31 | 22s45 | 0n34 | 0s21 | 2n42 | 15n50 | 0s21 | 9s16 | 0s50 | 23n38 | 1n43 | 18n13 | 18n24 | 19n25 | 14n41 | 2s21 |
| F 2 | 15 21 | 27 3 | 3 45 | 20 21 | 1 42 | 21 25 | 0 33 | 21 59 | 1 33 | 22 45 | 0 34 | 0 20 | 2 42 | 15 51 | 0 21 | 9 16 | 0 50 | 23 38 | 1 43 | 18 13 | 18 23 | 19 23 | 14 42 | 2 21 |
| S 3 | 15 39 | 26 20 | 4 32 | 20 4 | 1 29 | 21 41 | 0 36 | 21 54 | 1 35 | 22 45 | 0 34 | 0 19 | 2 42 | 15 52 | 0 21 | 9 15 | 0 50 | 23 38 | 1 43 | 18 14 | 18 23 | 19 21 | 14 44 | 2 21 |
| S 4 | 15 56 | 23 57 | 5 3 | 19 45 | 1 15 | 21 57 | 0 39 | 21 50 | 1 38 | 22 45 | 0 34 | 0 18 | 2 42 | 15 53 | 0 21 | 9 15 | 0 50 | 23 38 | 1 43 | 18 14 | 18 22 | 19 19 | 14 45 | 2 21 |
| M 5 | 16 14 | 20 5 | 5 16 | 19 25 | 1 0 | 22 12 | 0 41 | 21 46 | 1 40 | 22 45 | 0 34 | 0 17 | 2 41 | 15 54 | 0 21 | 9 15 | 0 50 | 23 38 | 1 43 | 18 14 | 18 21 | 19 16 | 14 46 | 2 21 |
| T 6 | 16 31 | 15 4 | 5 10 | 19 3 | 0 44 | 22 26 | 0 44 | 21 42 | 1 43 | 22 44 | 0 34 | 0 16 | 2 41 | 15 56 | 0 21 | 9 14 | 0 50 | 23 38 | 1 43 | 18 14 | 18 20 | 19 14 | 14 47 | 2 21 |
| W 7 | 16 47 | 9 13 | 4 45 | 18 39 | 0 27 | 22 40 | 0 46 | 21 37 | 1 45 | 22 44 | 0 33 | 0 15 | 2 41 | 15 57 | 0 20 | 9 14 | 0 50 | 23 38 | 1 43 | 18 14 | 18 19 | 19 12 | 14 48 | 2 21 |
| T 8 | 17 4 | 2 56 | 4 2 | 18 14 | 0 10 | 22 53 | 0 49 | 21 33 | 1 48 | 22 44 | 0 33 | 0 14 | 2 41 | 15 58 | 0 20 | 9 13 | 0 50 | 23 37 | 1 43 | 18 13 | 18 19 | 19 10 | 14 49 | 2 21 |
| F 9 | 17 20 | 3n29 | 3 5 | 17 49 | 0s 7 | 23 6 | 0 51 | 21 29 | 1 50 | 22 44 | 0 33 | 0 13 | 2 41 | 15 59 | 0 20 | 9 13 | 0 51 | 23 37 | 1 43 | 18 13 | 18 18 | 19 8 | 14 50 | 2 21 |
| S 10 | 17 36 | 9 39 | 1 57 | 17 22 | 0 24 | 23 18 | 0 54 | 21 24 | 1 53 | 22 44 | 0 33 | 0 12 | 2 40 | 16 0 | 0 20 | 9 13 | 0 51 | 23 37 | 1 43 | 18 13 | 18 17 | 19 5 | 14 51 | 2 21 |
| S 11 | 17 52 | 15 16 | 0 44 | 16 56 | 0 42 | 23 29 | 0 56 | 21 20 | 1 56 | 22 43 | 0 33 | 0 11 | 2 40 | 16 1 | 0 20 | 9 12 | 0 51 | 23 37 | 1 43 | 18 13 | 18 16 | 19 3 | 14 53 | 2 21 |
| M12 | 18 7 | 20 3 | 0n30 | 16 30 | 0 59 | 23 40 | 0 58 | 21 16 | 1 58 | 22 43 | 0 33 | 0 10 | 2 40 | 16 2 | 0 20 | 9 12 | 0 51 | 23 37 | 1 43 | 18 13 | 18 15 | 19 1 | 14 54 | 2 21 |
| T 13 | 18 22 | 23 42 | 1 41 | 16 4 | 1 16 | 23 50 | 1 1 | 21 11 | 2 1 | 22 43 | 0 33 | 0 9 | 2 40 | 16 3 | 0 20 | 9 12 | 0 51 | 23 37 | 1 43 | 18 13 | 18 14 | 18 59 | 14 55 | 2 22 |
| W14 | 18 37 | 26 4 | 2 46 | 15 39 | 1 33 | 23 59 | 1 3 | 21 7 | 2 4 | 22 43 | 0 33 | 0 8 | 2 40 | 16 4 | 0 20 | 9 11 | 0 51 | 23 37 | 1 43 | 18 13 | 18 14 | 18 56 | 14 56 | 2 22 |
| T 15 | 18 51 | 27 2 | 3 40 | 15 14 | 1 49 | 24 7 | 1 5 | 21 3 | 2 7 | 22 42 | 0 33 | 0 8 | 2 40 | 16 5 | 0 20 | 9 11 | 0 51 | 23 37 | 1 44 | 18 13 | 18 13 | 18 54 | 14 57 | 2 22 |
| F 16 | 19 5 | 26 37 | 4 24 | 14 52 | 2 4 | 24 15 | 1 8 | 20 58 | 2 9 | 22 42 | 0 33 | 0 7 | 2 39 | 16 6 | 0 20 | 9 11 | 0 51 | 23 37 | 1 44 | 18 13 | 18 12 | 18 52 | 14 58 | 2 22 |
| S 17 | 19 19 | 24 56 | 4 55 | 14 30 | 2 19 | 24 22 | 1 10 | 20 54 | 2 12 | 22 42 | 0 33 | 0 6 | 2 39 | 16 7 | 0 20 | 9 11 | 0 51 | 23 36 | 1 44 | 18 13 | 18 11 | 18 50 | 14 59 | 2 22 |
| S 18 | 19 32 | 22 10 | 5 12 | 14 11 | 2 32 | 24 29 | 1 12 | 20 50 | 2 15 | 22 42 | 0 33 | 0 5 | 2 39 | 16 8 | 0 20 | 9 10 | 0 51 | 23 36 | 1 44 | 18 13 | 18 10 | 18 47 | 15 0 | 2 22 |
| M19 | 19 45 | 18 29 | 5 16 | 13 53 | 2 45 | 24 35 | 1 14 | 20 46 | 2 18 | 22 41 | 0 33 | 0 5 | 2 39 | 16 9 | 0 20 | 9 10 | 0 51 | 23 36 | 1 44 | 18 13 | 18 9 | 18 45 | 15 1 | 2 22 |
| T 20 | 19 58 | 14 5 | 5 7 | 13 38 | 2 56 | 24 40 | 1 16 | 20 41 | 2 21 | 22 41 | 0 33 | 0 4 | 2 39 | 16 10 | 0 20 | 9 10 | 0 51 | 23 36 | 1 44 | 18 13 | 18 9 | 18 43 | 15 2 | 2 22 |
| W21 | 20 10 | 9 8 | 4 44 | 13 24 | 3 7 | 24 44 | 1 18 | 20 37 | 2 24 | 22 41 | 0 33 | 0 4 | 2 38 | 16 11 | 0 20 | 9 10 | 0 51 | 23 36 | 1 44 | 18 13 | 18 8 | 18 41 | 15 3 | 2 22 |
| T 22 | 20 23 | 3 46 | 4 8 | 13 13 | 3 16 | 24 48 | 1 20 | 20 33 | 2 27 | 22 40 | 0 32 | 0 3 | 2 38 | 16 12 | 0 20 | 9 9 | 0 51 | 23 36 | 1 44 | 18 13 | 18 7 | 18 38 | 15 4 | 2 23 |
| F 23 | 20 34 | 1s50 | 3 21 | 13 5 | 3 24 | 24 51 | 1 22 | 20 29 | 2 30 | 22 40 | 0 32 | 0 3 | 2 38 | 16 13 | 0 20 | 9 9 | 0 51 | 23 36 | 1 44 | 18 13 | 18 6 | 18 36 | 15 6 | 2 23 |
| S 24 | 20 46 | 7 29 | 2 22 | 12 58 | 3 31 | 24 53 | 1 24 | 20 25 | 2 33 | 22 40 | 0 32 | 0 2 | 2 38 | 16 14 | 0 20 | 9 9 | 0 51 | 23 35 | 1 44 | 18 14 | 18 5 | 18 34 | 15 7 | 2 23 |
| S 25 | 20 57 | 12 59 | 1 16 | 12 54 | 3 37 | 24 54 | 1 26 | 20 21 | 2 37 | 22 39 | 0 32 | 0 2 | 2 37 | 16 15 | 0 20 | 9 9 | 0 51 | 23 35 | 1 44 | 18 14 | 18 4 | 18 31 | 15 8 | 2 23 |
| M26 | 21 7 | 18 3 | 0 3 | 12 53 | 3 42 | 24 55 | 1 28 | 20 17 | 2 40 | 22 39 | 0 32 | 0 2 | 2 37 | 16 16 | 0 20 | 9 9 | 0 51 | 23 35 | 1 44 | 18 14 | 18 4 | 18 29 | 15 9 | 2 23 |
| T 27 | 21 18 | 22 18 | 1s12 | 12 53 | 3 46 | 24 55 | 1 30 | 20 13 | 2 43 | 22 38 | 0 32 | 0 1 | 2 37 | 16 17 | 0 20 | 9 9 | 0 51 | 23 35 | 1 44 | 18 14 | 18 3 | 18 27 | 15 10 | 2 23 |
| W28 | 21 27 | 25 23 | 2 23 | 12 56 | 3 49 | 24 55 | 1 31 | 20 10 | 2 46 | 22 38 | 0 32 | 0 1 | 2 37 | 16 18 | 0 20 | 9 8 | 0 51 | 23 35 | 1 44 | 18 13 | 18 2 | 18 25 | 15 11 | 2 23 |
| T 29 | 21 37 | 26 55 | 3 28 | 13 2 | 3 50 | 24 53 | 1 33 | 20 6 | 2 50 | 22 38 | 0 32 | 0 1 | 2 37 | 16 19 | 0 20 | 9 8 | 0 51 | 23 35 | 1 44 | 18 13 | 18 1 | 18 22 | 15 12 | 2 23 |
| F 30 | 21 46 | 26 41 | 4 20 | 13 9 | 3 51 | 24 51 | 1 34 | 20 2 | 2 53 | 22 37 | 0 32 | 0 1 | 2 36 | 16 20 | 0 20 | 9 8 | 0 51 | 23 35 | 1 44 | 18 13 | 18 0 | 18 20 | 15 13 | 2 24 |
| S 31 | 21n55 | 24s40 | 4s56 | 13n18 | 3s51 | 24n48 | 1n36 | 19s59 | 2s56 | 22s37 | 0n32 | 0s 1 | 2n36 | 16n20 | 0s20 | 9s 8 | 0s51 | 23n34 | 1n44 | 18n12 | 17n59 | 18n18 | 15n14 | 2s24 |

Julian Day Number = 2337344.5, Delta T = 19.72 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'33, Lahiri = 19°29'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## JUNE 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 38 23 | 10♊28'47 | 15♒55 | 17♉47 | 9♋41 | 12♒37 | 20°R21 | 6°R 1 | 16♉ 5 | 8♓39 | 20♋53 | 21°R35 | 20♉46 | 24♌23 | 19♉11 | S 1 |
| M 2 | 16 42 19 | 11°26'10 | 0♓16 | 18°28 | 10°53 | 13° 0 | 20♐13 | 6♎ 0 | 16° 9 | 8°40 | 20°54 | 21♉34 | 20°43 | 24°29 | 19°15 | M 2 |
| T 3 | 16 46 16 | 12°23'33 | 14°29 | 19°13 | 12° 5 | 13°23 | 20° 6 | 6° 0 | 16°12 | 8°40 | 20°56 | 21°D33 | 20°40 | 24°36 | 19°19 | T 3 |
| W 4 | 16 50 12 | 13°20'55 | 28°34 | 20° 1 | 13°17 | 13°45 | 19°58 | 5°59 | 16°15 | 8°40 | 20°57 | 21°34 | 20°36 | 24°43 | 19°23 | W 4 |
| T 5 | 16 54 9 | 14°18'17 | 12♈27 | 20°53 | 14°29 | 14° 7 | 19°51 | 5°59 | 16°18 | 8°40 | 20°58 | 21°35 | 20°33 | 24°50 | 19°27 | T 5 |
| F 6 | 16 58 5 | 15°15'38 | 26° 9 | 21°49 | 15°41 | 14°28 | 19°43 | 5°59 | 16°21 | 8°41 | 21° 0 | 21°37 | 20°30 | 24°56 | 19°31 | F 6 |
| S 7 | 17 2 2 | 16°12'59 | 9♉39 | 22°48 | 16°53 | 14°49 | 19°36 | 5°58 | 16°25 | 8°41 | 21° 1 | 21°38 | 20°27 | 25° 3 | 19°35 | S 7 |
| S 8 | 17 5 58 | 17°10'19 | 22°56 | 23°51 | 18° 5 | 15° 9 | 19°28 | 5°D58 | 16°28 | 8°41 | 21° 2 | 21°R38 | 20°24 | 25°10 | 19°39 | S 8 |
| M 9 | 17 9 55 | 18° 7'38 | 6♊ 0 | 24°58 | 19°17 | 15°29 | 19°20 | 5°58 | 16°31 | 8°41 | 21° 4 | 21°38 | 20°21 | 25°17 | 19°43 | M 9 |
| T 10 | 17 13 52 | 19° 4'58 | 18°52 | 26° 7 | 20°28 | 15°49 | 19°13 | 5°59 | 16°34 | 8°41 | 21° 5 | 21°35 | 20°17 | 25°23 | 19°47 | T 10 |
| W11 | 17 17 48 | 20° 2'16 | 1♋30 | 27°21 | 21°40 | 16° 8 | 19° 5 | 5°59 | 16°37 | 8°R41 | 21° 7 | 21°32 | 20°14 | 25°30 | 19°51 | W11 |
| T 12 | 17 21 45 | 20°59'34 | 13°56 | 28°37 | 22°52 | 16°26 | 18°57 | 5°59 | 16°40 | 8°41 | 21° 8 | 21°28 | 20°11 | 25°37 | 19°55 | T 12 |
| F 13 | 17 25 41 | 21°56'51 | 26°10 | 29°57 | 24° 3 | 16°44 | 18°50 | 6° 0 | 16°43 | 8°41 | 21° 9 | 21°22 | 20° 8 | 25°43 | 19°59 | F 13 |
| S 14 | 17 29 38 | 22°54'08 | 8♌14 | 1♊20 | 25°15 | 17° 2 | 18°42 | 6° 0 | 16°46 | 8°41 | 21°11 | 21°17 | 20° 5 | 25°50 | 20° 3 | S 14 |
| S 15 | 17 33 34 | 23°51'23 | 20°12 | 2°46 | 26°26 | 17°19 | 18°34 | 6° 1 | 16°49 | 8°41 | 21°12 | 21°13 | 20° 1 | 25°57 | 20° 7 | S 15 |
| M16 | 17 37 31 | 24°48'39 | 2♍ 4 | 4°15 | 27°38 | 17°35 | 18°27 | 6° 1 | 16°52 | 8°41 | 21°14 | 21° 9 | 19°58 | 26° 4 | 20°10 | M16 |
| T 17 | 17 41 28 | 25°45'53 | 13°57 | 5°48 | 28°49 | 17°51 | 18°19 | 6° 2 | 16°55 | 8°40 | 21°15 | 21° 7 | 19°55 | 26°10 | 20°14 | T 17 |
| W18 | 17 45 24 | 26°43'07 | 25°54 | 7°23 | 0♌ 1 | 18° 6 | 18°12 | 6° 3 | 16°57 | 8°40 | 21°17 | 21°D 6 | 19°52 | 26°17 | 20°18 | W18 |
| T 19 | 17 49 21 | 27°40'20 | 8♎ 0 | 9° 2 | 1°12 | 18°21 | 18° 4 | 6° 4 | 17° 0 | 8°40 | 21°18 | 21° 7 | 19°49 | 26°24 | 20°22 | T 19 |
| F 20 | 17 53 17 | 28°37'32 | 20°19 | 10°44 | 2°23 | 18°35 | 17°57 | 6° 5 | 17° 3 | 8°40 | 21°20 | 21° 8 | 19°46 | 26°31 | 20°25 | F 20 |
| S 21 | 17 57 14 | 29°34'44 | 2♏57 | 12°29 | 3°34 | 18°48 | 17°49 | 6° 7 | 17° 6 | 8°39 | 21°21 | 21° 9 | 19°42 | 26°37 | 20°29 | S 21 |
| S 22 | 18 1 10 | 0♋31'55 | 15°57 | 14°16 | 4°45 | 19° 1 | 17°42 | 6° 8 | 17° 9 | 8°39 | 21°23 | 21°R10 | 19°39 | 26°44 | 20°32 | S 22 |
| M23 | 18 5 7 | 1°29'06 | 29°21 | 16° 7 | 5°56 | 19°13 | 17°35 | 6° 9 | 17°11 | 8°39 | 21°24 | 21°10 | 19°36 | 26°51 | 20°36 | M23 |
| T 24 | 18 9 3 | 2°26'17 | 13♐10 | 18° 0 | 7° 7 | 19°25 | 17°28 | 6°11 | 17°14 | 8°38 | 21°26 | 21° 8 | 19°33 | 26°57 | 20°39 | T 24 |
| W25 | 18 13 0 | 3°23'28 | 27°23 | 19°56 | 8°18 | 19°36 | 17°20 | 6°13 | 17°17 | 8°38 | 21°28 | 21° 5 | 19°30 | 27° 4 | 20°43 | W25 |
| T 26 | 18 16 57 | 4°20'38 | 11♑56 | 21°54 | 9°29 | 19°46 | 17°13 | 6°14 | 17°19 | 8°37 | 21°29 | 20°59 | 19°27 | 27°11 | 20°46 | T 26 |
| F 27 | 18 20 53 | 5°17'48 | 26°41 | 23°54 | 10°40 | 19°56 | 17° 6 | 6°16 | 17°22 | 8°37 | 21°31 | 20°53 | 19°23 | 27°18 | 20°50 | F 27 |
| S 28 | 18 24 50 | 6°14'59 | 11♒31 | 25°57 | 11°50 | 20° 5 | 17° 0 | 6°18 | 17°25 | 8°36 | 21°32 | 20°46 | 19°20 | 27°24 | 20°53 | S 28 |
| S 29 | 18 28 46 | 7°12'09 | 26°18 | 28° 1 | 13° 1 | 20°13 | 16°53 | 6°20 | 17°27 | 8°36 | 21°34 | 20°40 | 19°17 | 27°31 | 20°57 | S 29 |
| M30 | 18 32 43 | 8♋ 9'19 | 10♓55 | 0♋ 7 | 14♌12 | 20♒20 | 16♐46 | 6♎22 | 17♉30 | 8♓35 | 21♋35 | 20♉36 | 19♉14 | 27♌38 | 21♉ 0 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 3 | 21s 4 | 5s13 | 13n29 | 3s50 | 24n45 | 1n37 | 19s55 | 3s 0 | 22s36 | 0n31 | 0s 1 | 2n36 | 16n21 | 0s20 | 9s 8 | 0s51 | 23n34 | 1n44 | 18n11 | 17n59 | 18n15 | 15n15 | 2s24 |
| M 2 | 22 12 | 16 15 | 5 11 | 13 42 | 3 48 | 24 41 | 1 39 | 19 52 | 3 3 | 22 36 | 0 31 | 0 1 | 2 36 | 16 22 | 0 20 | 9 8 | 0 51 | 23 34 | 1 44 | 18 11 | 17 58 | 18 13 | 15 16 | 2 24 |
| T 3 | 22 19 | 10 34 | 4 50 | 13 57 | 3 45 | 24 36 | 1 40 | 19 49 | 3 7 | 22 36 | 0 31 | 0 1 | 2 35 | 16 23 | 0 20 | 9 8 | 0 51 | 23 34 | 1 44 | 18 11 | 17 57 | 18 11 | 15 17 | 2 24 |
| W 4 | 22 26 | 4 25 | 4 12 | 14 13 | 3 41 | 24 30 | 1 41 | 19 46 | 3 10 | 22 35 | 0 31 | 0 1 | 2 35 | 16 24 | 0 20 | 9 8 | 0 52 | 23 34 | 1 44 | 18 11 | 17 56 | 18 8 | 15 17 | 2 24 |
| T 5 | 22 33 | 1n53 | 3 19 | 14 31 | 3 37 | 24 24 | 1 43 | 19 43 | 3 14 | 22 35 | 0 31 | 0 1 | 2 35 | 16 25 | 0 20 | 9 8 | 0 52 | 23 34 | 1 44 | 18 12 | 17 55 | 18 6 | 15 18 | 2 24 |
| F 6 | 22 40 | 8 1 | 2 15 | 14 51 | 3 32 | 24 16 | 1 44 | 19 40 | 3 17 | 22 34 | 0 31 | 0 1 | 2 35 | 16 26 | 0 20 | 9 8 | 0 52 | 23 33 | 1 44 | 18 12 | 17 54 | 18 3 | 15 19 | 2 25 |
| S 7 | 22 46 | 13 42 | 1 5 | 15 11 | 3 26 | 24 9 | 1 45 | 19 37 | 3 21 | 22 34 | 0 31 | 0 1 | 2 34 | 16 27 | 0 20 | 9 8 | 0 52 | 23 33 | 1 44 | 18 12 | 17 54 | 18 1 | 15 20 | 2 25 |
| S 8 | 22 52 | 18 39 | 0n 7 | 15 33 | 3 19 | 24 0 | 1 46 | 19 35 | 3 25 | 22 33 | 0 31 | 0 1 | 2 34 | 16 28 | 0 20 | 9 8 | 0 52 | 23 33 | 1 44 | 18 12 | 17 53 | 17 59 | 15 21 | 2 25 |
| M 9 | 22 57 | 22 38 | 1 18 | 15 56 | 3 12 | 23 51 | 1 47 | 19 32 | 3 29 | 22 33 | 0 31 | 0 1 | 2 34 | 16 29 | 0 20 | 9 8 | 0 52 | 23 33 | 1 44 | 18 12 | 17 52 | 17 56 | 15 22 | 2 25 |
| T 10 | 23 2 | 25 24 | 2 24 | 16 20 | 3 4 | 23 41 | 1 48 | 19 30 | 3 32 | 22 32 | 0 30 | 0 2 | 2 34 | 16 30 | 0 20 | 9 8 | 0 52 | 23 33 | 1 44 | 18 12 | 17 51 | 17 54 | 15 23 | 2 25 |
| W11 | 23 6 | 26 49 | 3 21 | 16 44 | 2 56 | 23 31 | 1 48 | 19 28 | 3 36 | 22 32 | 0 30 | 0 2 | 2 33 | 16 30 | 0 20 | 9 8 | 0 52 | 23 32 | 1 44 | 18 11 | 17 50 | 17 52 | 15 24 | 2 25 |
| T 12 | 23 10 | 26 51 | 4 8 | 17 10 | 2 47 | 23 20 | 1 49 | 19 26 | 3 40 | 22 31 | 0 30 | 0 2 | 2 33 | 16 31 | 0 20 | 9 8 | 0 52 | 23 32 | 1 44 | 18 10 | 17 49 | 17 49 | 15 25 | 2 26 |
| F 13 | 23 14 | 25 34 | 4 42 | 17 36 | 2 38 | 23 8 | 1 50 | 19 24 | 3 44 | 22 31 | 0 30 | 0 3 | 2 33 | 16 32 | 0 20 | 9 8 | 0 52 | 23 32 | 1 45 | 18 8 | 17 48 | 17 47 | 15 26 | 2 26 |
| S 14 | 23 17 | 23 7 | 5 3 | 18 2 | 2 29 | 22 56 | 1 50 | 19 22 | 3 48 | 22 30 | 0 30 | 0 3 | 2 33 | 16 33 | 0 20 | 9 8 | 0 52 | 23 32 | 1 45 | 18 7 | 17 48 | 17 44 | 15 27 | 2 26 |
| S 15 | 23 20 | 19 42 | 5 11 | 18 29 | 2 18 | 22 43 | 1 51 | 19 21 | 3 52 | 22 30 | 0 30 | 0 4 | 2 32 | 16 34 | 0 20 | 9 8 | 0 52 | 23 32 | 1 45 | 18 6 | 17 47 | 17 42 | 15 27 | 2 26 |
| M16 | 23 23 | 15 30 | 5 6 | 18 56 | 2 8 | 22 29 | 1 51 | 19 20 | 3 56 | 22 29 | 0 30 | 0 4 | 2 32 | 16 35 | 0 20 | 9 8 | 0 52 | 23 32 | 1 45 | 18 5 | 17 46 | 17 40 | 15 28 | 2 26 |
| T 17 | 23 25 | 10 44 | 4 47 | 19 23 | 1 57 | 22 15 | 1 51 | 19 19 | 4 0 | 22 29 | 0 29 | 0 5 | 2 32 | 16 35 | 0 20 | 9 8 | 0 52 | 23 31 | 1 45 | 18 4 | 17 45 | 17 37 | 15 29 | 2 26 |
| W18 | 23 26 | 5 33 | 4 16 | 19 50 | 1 46 | 22 0 | 1 52 | 19 18 | 4 4 | 22 28 | 0 29 | 0 5 | 2 32 | 16 36 | 0 20 | 9 8 | 0 52 | 23 31 | 1 45 | 18 4 | 17 44 | 17 35 | 15 30 | 2 27 |
| T 19 | 23 28 | 0 5 | 3 33 | 20 17 | 1 35 | 21 45 | 1 52 | 19 17 | 4 8 | 22 28 | 0 29 | 0 6 | 2 31 | 16 37 | 0 20 | 9 8 | 0 52 | 23 31 | 1 45 | 18 4 | 17 43 | 17 32 | 15 31 | 2 27 |
| F 20 | 23 28 | 5s29 | 2 40 | 20 43 | 1 23 | 21 29 | 1 52 | 19 16 | 4 12 | 22 27 | 0 29 | 0 7 | 2 31 | 16 38 | 0 20 | 9 9 | 0 52 | 23 31 | 1 45 | 18 4 | 17 42 | 17 30 | 15 31 | 2 27 |
| S 21 | 23 29 | 10 59 | 1 37 | 21 9 | 1 11 | 21 12 | 1 52 | 19 16 | 4 16 | 22 27 | 0 29 | 0 7 | 2 31 | 16 39 | 0 20 | 9 9 | 0 52 | 23 31 | 1 45 | 18 5 | 17 42 | 17 28 | 15 32 | 2 27 |
| S 22 | 23 29 | 16 11 | 0 28 | 21 34 | 0 59 | 20 55 | 1 52 | 19 16 | 4 20 | 22 26 | 0 29 | 0 8 | 2 31 | 16 39 | 0 20 | 9 9 | 0 52 | 23 30 | 1 45 | 18 5 | 17 41 | 17 25 | 15 33 | 2 27 |
| M23 | 23 28 | 20 46 | 0s44 | 21 58 | 0 48 | 20 37 | 1 51 | 19 16 | 4 24 | 22 26 | 0 29 | 0 9 | 2 30 | 16 40 | 0 20 | 9 9 | 0 52 | 23 30 | 1 45 | 18 5 | 17 40 | 17 23 | 15 34 | 2 27 |
| T 24 | 23 28 | 24 21 | 1 56 | 22 21 | 0 36 | 20 19 | 1 51 | 19 16 | 4 29 | 22 25 | 0 28 | 0 10 | 2 30 | 16 41 | 0 20 | 9 9 | 0 52 | 23 30 | 1 45 | 18 5 | 17 39 | 17 20 | 15 34 | 2 28 |
| W25 | 23 26 | 26 31 | 3 3 | 22 42 | 0 24 | 20 0 | 1 51 | 19 17 | 4 33 | 22 25 | 0 28 | 0 11 | 2 30 | 16 42 | 0 20 | 9 9 | 0 52 | 23 30 | 1 45 | 18 4 | 17 38 | 17 18 | 15 35 | 2 28 |
| T 26 | 23 25 | 26 55 | 4 0 | 23 2 | 0 12 | 19 41 | 1 50 | 19 17 | 4 37 | 22 24 | 0 28 | 0 11 | 2 30 | 16 42 | 0 20 | 9 10 | 0 52 | 23 30 | 1 45 | 18 2 | 17 37 | 17 15 | 15 36 | 2 28 |
| F 27 | 23 23 | 25 27 | 4 41 | 23 20 | 0 1 | 19 21 | 1 50 | 19 18 | 4 41 | 22 24 | 0 28 | 0 12 | 2 29 | 16 43 | 0 20 | 9 10 | 0 52 | 23 29 | 1 45 | 18 0 | 17 36 | 17 13 | 15 37 | 2 28 |
| S 28 | 23 20 | 22 13 | 5 4 | 23 35 | 0n10 | 19 1 | 1 49 | 19 19 | 4 46 | 22 23 | 0 28 | 0 13 | 2 29 | 16 44 | 0 20 | 9 10 | 0 52 | 23 29 | 1 45 | 17 59 | 17 36 | 17 10 | 15 37 | 2 28 |
| S 29 | 23 17 | 17 34 | 5 6 | 23 49 | 0 21 | 18 40 | 1 48 | 19 21 | 4 50 | 22 23 | 0 28 | 0 14 | 2 29 | 16 45 | 0 20 | 9 10 | 0 52 | 23 29 | 1 45 | 17 57 | 17 35 | 17 8 | 15 38 | 2 29 |
| M30 | 23n14 | 11s56 | 4s49 | 24n 0 | 0n31 | 18n19 | 1n47 | 19s22 | 4s54 | 22s22 | 0n27 | 0s15 | 2n29 | 16n45 | 0s20 | 9s11 | 0s53 | 23n29 | 1n45 | 17n56 | 17n34 | 17n 5 | 15n39 | 2s29 |

Julian Day Number = 2337375.5, Delta T = 19.68 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'37, Lahiri = 19°29'37Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## JULY 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 36 39 | 9♋ 6'30 | 25♓17 | 2♋15 | 15♌22 | 20♒27 | 16°R39 | 6♎24 | 17♉32 | 8°R35 | 21♋37 | 20°R33 | 19♉11 | 27♌44 | 21♉ 3 | T 1 |
| W 2 | 18 40 36 | 10° 3'41 | 9♈21 | 4°23 | 16°32 | 20°33 | 16♐33 | 6°27 | 17°34 | 8♓34 | 21°39 | 20°D32 | 19° 7 | 27°51 | 21° 6 | W 2 |
| T 3 | 18 44 32 | 11° 0'53 | 23° 5 | 6°32 | 17°43 | 20°39 | 16°27 | 6°29 | 17°37 | 8°33 | 21°40 | 20♉33 | 19° 4 | 27°58 | 21°10 | T 3 |
| F 4 | 18 48 29 | 11°58'05 | 6♉33 | 8°42 | 18°53 | 20°43 | 16°20 | 6°32 | 17°39 | 8°33 | 21°42 | 20°34 | 19° 1 | 28° 5 | 21°13 | F 4 |
| S 5 | 18 52 26 | 12°55'17 | 19°43 | 10°52 | 20° 3 | 20°47 | 16°14 | 6°34 | 17°42 | 8°32 | 21°43 | 20°R35 | 18°58 | 28°11 | 21°16 | S 5 |
| S 6 | 18 56 22 | 13°52'30 | 2♊40 | 13° 2 | 21°14 | 20°50 | 16° 8 | 6°37 | 17°44 | 8°31 | 21°45 | 20°34 | 18°55 | 28°18 | 21°19 | S 6 |
| M 7 | 19 0 19 | 14°49'43 | 15°24 | 15°11 | 22°24 | 20°52 | 16° 2 | 6°40 | 17°46 | 8°30 | 21°47 | 20°31 | 18°52 | 28°25 | 21°22 | M 7 |
| T 8 | 19 4 15 | 15°46'57 | 27°57 | 17°20 | 23°34 | 20°54 | 15°56 | 6°42 | 17°48 | 8°30 | 21°48 | 20°26 | 18°48 | 28°32 | 21°25 | T 8 |
| W 9 | 19 8 12 | 16°44'11 | 10♋20 | 19°28 | 24°44 | 20°R54 | 15°51 | 6°45 | 17°50 | 8°29 | 21°50 | 20°18 | 18°45 | 28°38 | 21°28 | W 9 |
| T 10 | 19 12 8 | 17°41'26 | 22°34 | 21°35 | 25°53 | 20°54 | 15°45 | 6°48 | 17°53 | 8°28 | 21°52 | 20° 9 | 18°42 | 28°45 | 21°31 | T 10 |
| F 11 | 19 16 5 | 18°38'40 | 4♌40 | 23°40 | 27° 3 | 20°53 | 15°40 | 6°52 | 17°55 | 8°27 | 21°53 | 19°58 | 18°39 | 28°52 | 21°34 | F 11 |
| S 12 | 19 20 1 | 19°35'55 | 16°39 | 25°45 | 28°13 | 20°52 | 15°34 | 6°55 | 17°57 | 8°26 | 21°55 | 19°47 | 18°36 | 28°58 | 21°36 | S 12 |
| S 13 | 19 23 58 | 20°33'10 | 28°33 | 27°48 | 29°23 | 20°49 | 15°29 | 6°58 | 17°59 | 8°25 | 21°56 | 19°37 | 18°33 | 29° 5 | 21°39 | S 13 |
| M14 | 19 27 55 | 21°30'26 | 10♍24 | 29°49 | 0♍32 | 20°46 | 15°24 | 7° 1 | 18° 1 | 8°24 | 21°58 | 19°28 | 18°29 | 29°12 | 21°42 | M14 |
| T 15 | 19 31 51 | 22°27'42 | 22°15 | 1♌49 | 1°42 | 20°42 | 15°20 | 7° 5 | 18° 3 | 8°23 | 22° 0 | 19°22 | 18°26 | 29°19 | 21°44 | T 15 |
| W16 | 19 35 48 | 23°24'58 | 4♎10 | 3°47 | 2°51 | 20°37 | 15°15 | 7° 8 | 18° 5 | 8°22 | 22° 1 | 19°18 | 18°23 | 29°25 | 21°47 | W16 |
| T 17 | 19 39 44 | 24°22'14 | 16°14 | 5°44 | 4° 0 | 20°32 | 15°10 | 7°12 | 18° 6 | 8°21 | 22° 3 | 19°16 | 18°20 | 29°32 | 21°50 | T 17 |
| F 18 | 19 43 41 | 25°19'30 | 28°30 | 7°38 | 5° 9 | 20°26 | 15° 6 | 7°16 | 18° 8 | 8°20 | 22° 5 | 19°D16 | 18°17 | 29°39 | 21°52 | F 18 |
| S 19 | 19 47 37 | 26°16'47 | 11♏ 5 | 9°32 | 6°18 | 20°19 | 15° 2 | 7°20 | 18°10 | 8°19 | 22° 6 | 19°16 | 18°13 | 29°45 | 21°54 | S 19 |
| S 20 | 19 51 34 | 27°14'05 | 24° 2 | 11°23 | 7°27 | 20°11 | 14°58 | 7°23 | 18°12 | 8°18 | 22° 8 | 19°R16 | 18°10 | 29°52 | 21°57 | S 20 |
| M21 | 19 55 30 | 28°11'22 | 7♐26 | 13°13 | 8°36 | 20° 3 | 14°54 | 7°27 | 18°13 | 8°17 | 22° 9 | 19°15 | 18° 7 | 29°59 | 21°59 | M21 |
| T 22 | 19 59 27 | 29° 8'41 | 21°19 | 15° 0 | 9°45 | 19°54 | 14°50 | 7°32 | 18°15 | 8°15 | 22°11 | 19°11 | 18° 4 | 0♍ 6 | 22° 1 | T 22 |
| W23 | 20 3 24 | 0♑ 6'00 | 5♑41 | 16°47 | 10°54 | 19°45 | 14°47 | 7°36 | 18°17 | 8°14 | 22°13 | 19° 5 | 18° 1 | 0°12 | 22° 4 | W23 |
| T 24 | 20 7 20 | 1° 3'19 | 20°27 | 18°31 | 12° 2 | 19°34 | 14°43 | 7°40 | 18°18 | 8°13 | 22°14 | 18°57 | 17°58 | 0°19 | 22° 6 | T 24 |
| F 25 | 20 11 17 | 2° 0'39 | 5♒30 | 20°14 | 13°11 | 19°24 | 14°40 | 7°44 | 18°20 | 8°12 | 22°16 | 18°47 | 17°54 | 0°26 | 22° 8 | F 25 |
| S 26 | 20 15 13 | 2°58'00 | 20°41 | 21°55 | 14°19 | 19°12 | 14°37 | 7°48 | 18°21 | 8°10 | 22°18 | 18°37 | 17°51 | 0°33 | 22°10 | S 26 |
| S 27 | 20 19 10 | 3°55'22 | 5♓50 | 23°34 | 15°27 | 19° 0 | 14°34 | 7°53 | 18°22 | 8° 9 | 22°19 | 18°28 | 17°48 | 0°39 | 22°12 | S 27 |
| M28 | 20 23 6 | 4°52'45 | 20°45 | 25°12 | 16°35 | 18°48 | 14°32 | 7°57 | 18°24 | 8° 8 | 22°21 | 18°20 | 17°45 | 0°46 | 22°14 | M28 |
| T 29 | 20 27 3 | 5°50'09 | 5♈21 | 26°48 | 17°43 | 18°35 | 14°29 | 8° 2 | 18°25 | 8° 7 | 22°22 | 18°15 | 17°42 | 0°53 | 22°16 | T 29 |
| W30 | 20 30 59 | 6°47'34 | 19°33 | 28°22 | 18°51 | 18°21 | 14°27 | 8° 7 | 18°26 | 8° 5 | 22°24 | 18°12 | 17°39 | 0°59 | 22°18 | W30 |
| T 31 | 20 34 56 | 7♌45'00 | 3♉20 | 29♌55 | 19♍59 | 18♒ 7 | 14♐25 | 8♎11 | 18♉28 | 8♓ 4 | 22♋26 | 18°D11 | 17♉35 | 1♍ 6 | 22♉20 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n10 | 5s45 | 4s13 | 24n 9 | 0n41 | 17n57 | 1n46 | 19s24 | 4s58 | 22s22 | 0n27 | 0s17 | 2n29 | 16n46 | 0s20 | 9s11 | 0s53 | 23n29 | 1n45 | 17n55 | 17n33 | 17n 3 | 15n39 | 2s29 |
| W 2 | 23 6 | 0n36 | 3 23 | 24 15 | 0 51 | 17 35 | 1 45 | 19 26 | 5 3 | 22 21 | 0 27 | 0 18 | 2 28 | 16 47 | 0 20 | 9 11 | 0 53 | 23 28 | 1 45 | 17 55 | 17 32 | 17 0 | 15 40 | 2 29 |
| T 3 | 23 1 | 6 47 | 2 22 | 24 19 | 1 0 | 17 12 | 1 44 | 19 29 | 5 7 | 22 21 | 0 27 | 0 19 | 2 28 | 16 47 | 0 20 | 9 11 | 0 53 | 23 28 | 1 46 | 17 55 | 17 31 | 16 58 | 15 41 | 2 29 |
| F 4 | 22 56 | 12 33 | 1 15 | 24 19 | 1 8 | 16 49 | 1 43 | 19 31 | 5 11 | 22 20 | 0 27 | 0 20 | 2 28 | 16 48 | 0 20 | 9 12 | 0 53 | 23 28 | 1 46 | 17 55 | 17 30 | 16 55 | 15 41 | 2 30 |
| S 5 | 22 51 | 17 37 | 0 5 | 24 17 | 1 15 | 16 26 | 1 42 | 19 34 | 5 15 | 22 20 | 0 27 | 0 21 | 2 28 | 16 49 | 0 20 | 9 12 | 0 53 | 23 28 | 1 46 | 17 56 | 17 29 | 16 53 | 15 42 | 2 30 |
| S 6 | 22 45 | 21 47 | 1n 4 | 24 12 | 1 22 | 16 2 | 1 40 | 19 37 | 5 20 | 22 19 | 0 26 | 0 23 | 2 27 | 16 49 | 0 20 | 9 12 | 0 53 | 23 28 | 1 46 | 17 55 | 17 29 | 16 50 | 15 42 | 2 30 |
| M 7 | 22 39 | 24 49 | 2 9 | 24 4 | 1 28 | 15 38 | 1 39 | 19 40 | 5 24 | 22 19 | 0 26 | 0 24 | 2 27 | 16 50 | 0 20 | 9 13 | 0 53 | 23 27 | 1 46 | 17 55 | 17 28 | 16 48 | 15 43 | 2 30 |
| T 8 | 22 33 | 26 34 | 3 6 | 23 54 | 1 33 | 15 13 | 1 37 | 19 44 | 5 28 | 22 18 | 0 26 | 0 25 | 2 27 | 16 50 | 0 21 | 9 13 | 0 53 | 23 27 | 1 46 | 17 53 | 17 27 | 16 45 | 15 43 | 2 31 |
| W 9 | 22 26 | 26 58 | 3 54 | 23 41 | 1 38 | 14 48 | 1 36 | 19 47 | 5 32 | 22 18 | 0 26 | 0 27 | 2 27 | 16 51 | 0 21 | 9 13 | 0 53 | 23 27 | 1 46 | 17 51 | 17 26 | 16 43 | 15 44 | 2 31 |
| T 10 | 22 19 | 26 1 | 4 30 | 23 25 | 1 41 | 14 23 | 1 34 | 19 51 | 5 36 | 22 18 | 0 26 | 0 28 | 2 26 | 16 52 | 0 21 | 9 14 | 0 53 | 23 27 | 1 46 | 17 49 | 17 25 | 16 40 | 15 45 | 2 31 |
| F 11 | 22 11 | 23 52 | 4 53 | 23 7 | 1 44 | 13 57 | 1 32 | 19 56 | 5 40 | 22 17 | 0 26 | 0 29 | 2 26 | 16 52 | 0 21 | 9 14 | 0 53 | 23 27 | 1 46 | 17 46 | 17 24 | 16 38 | 15 45 | 2 31 |
| S 12 | 22 3 | 20 41 | 5 3 | 22 47 | 1 47 | 13 31 | 1 30 | 20 0 | 5 44 | 22 17 | 0 25 | 0 31 | 2 26 | 16 53 | 0 21 | 9 14 | 0 53 | 23 26 | 1 46 | 17 43 | 17 23 | 16 35 | 15 46 | 2 31 |
| S 13 | 21 54 | 16 41 | 5 0 | 22 24 | 1 48 | 13 5 | 1 28 | 20 4 | 5 48 | 22 16 | 0 25 | 0 32 | 2 26 | 16 53 | 0 21 | 9 15 | 0 53 | 23 26 | 1 46 | 17 40 | 17 22 | 16 33 | 15 46 | 2 32 |
| M14 | 21 46 | 12 3 | 4 44 | 22 0 | 1 49 | 12 38 | 1 26 | 20 9 | 5 52 | 22 16 | 0 25 | 0 34 | 2 26 | 16 54 | 0 21 | 9 15 | 0 53 | 23 26 | 1 46 | 17 38 | 17 22 | 16 30 | 15 46 | 2 32 |
| T 15 | 21 36 | 6 59 | 4 15 | 21 34 | 1 49 | 12 12 | 1 24 | 20 14 | 5 56 | 22 16 | 0 25 | 0 35 | 2 25 | 16 54 | 0 21 | 9 16 | 0 53 | 23 26 | 1 46 | 17 36 | 17 21 | 16 28 | 15 47 | 2 32 |
| W16 | 21 27 | 1 38 | 3 36 | 21 6 | 1 49 | 11 44 | 1 21 | 20 19 | 6 0 | 22 15 | 0 25 | 0 37 | 2 25 | 16 55 | 0 21 | 9 16 | 0 53 | 23 26 | 1 46 | 17 35 | 17 20 | 16 25 | 15 47 | 2 32 |
| T 17 | 21 17 | 3s50 | 2 46 | 20 36 | 1 47 | 11 17 | 1 19 | 20 24 | 6 4 | 22 15 | 0 24 | 0 39 | 2 25 | 16 55 | 0 21 | 9 16 | 0 53 | 23 25 | 1 46 | 17 34 | 17 19 | 16 23 | 15 48 | 2 33 |
| F 18 | 21 7 | 9 17 | 1 48 | 20 6 | 1 46 | 10 49 | 1 16 | 20 30 | 6 7 | 22 15 | 0 24 | 0 40 | 2 25 | 16 56 | 0 21 | 9 17 | 0 53 | 23 25 | 1 46 | 17 34 | 17 18 | 16 20 | 15 48 | 2 33 |
| S 19 | 20 56 | 14 29 | 0 43 | 19 33 | 1 43 | 10 21 | 1 14 | 20 35 | 6 11 | 22 14 | 0 24 | 0 42 | 2 24 | 16 56 | 0 21 | 9 17 | 0 53 | 23 25 | 1 47 | 17 34 | 17 17 | 16 17 | 15 49 | 2 33 |
| S 20 | 20 45 | 19 13 | 0s25 | 19 0 | 1 40 | 9 53 | 1 11 | 20 41 | 6 14 | 22 14 | 0 24 | 0 44 | 2 24 | 16 57 | 0 21 | 9 18 | 0 53 | 23 25 | 1 47 | 17 34 | 17 16 | 16 15 | 15 49 | 2 33 |
| M21 | 20 34 | 23 9 | 1 35 | 18 26 | 1 37 | 9 25 | 1 8 | 20 47 | 6 18 | 22 14 | 0 24 | 0 46 | 2 24 | 16 57 | 0 21 | 9 18 | 0 53 | 23 25 | 1 47 | 17 34 | 17 15 | 16 12 | 15 49 | 2 34 |
| T 22 | 20 22 | 25 53 | 2 41 | 17 51 | 1 33 | 8 56 | 1 5 | 20 53 | 6 21 | 22 14 | 0 24 | 0 47 | 2 24 | 16 58 | 0 21 | 9 19 | 0 53 | 23 24 | 1 47 | 17 33 | 17 15 | 16 10 | 15 50 | 2 34 |
| W23 | 20 10 | 27 1 | 3 40 | 17 14 | 1 28 | 8 27 | 1 2 | 20 59 | 6 24 | 22 13 | 0 23 | 0 49 | 2 24 | 16 58 | 0 21 | 9 19 | 0 53 | 23 24 | 1 47 | 17 32 | 17 14 | 16 7 | 15 50 | 2 34 |
| T 24 | 19 58 | 26 17 | 4 25 | 16 38 | 1 24 | 7 58 | 0 59 | 21 5 | 6 27 | 22 13 | 0 23 | 0 51 | 2 23 | 16 59 | 0 21 | 9 20 | 0 53 | 23 24 | 1 47 | 17 29 | 17 13 | 16 5 | 15 50 | 2 34 |
| F 25 | 19 45 | 23 40 | 4 53 | 16 0 | 1 18 | 7 29 | 0 56 | 21 11 | 6 30 | 22 13 | 0 23 | 0 53 | 2 23 | 16 59 | 0 21 | 9 20 | 0 53 | 23 24 | 1 47 | 17 27 | 17 12 | 16 2 | 15 51 | 2 35 |
| S 26 | 19 32 | 19 22 | 5 1 | 15 22 | 1 12 | 7 0 | 0 53 | 21 17 | 6 32 | 22 13 | 0 23 | 0 55 | 2 23 | 16 59 | 0 21 | 9 21 | 0 53 | 23 24 | 1 47 | 17 24 | 17 11 | 15 59 | 15 51 | 2 35 |
| S 27 | 19 18 | 13 51 | 4 48 | 14 44 | 1 6 | 6 30 | 0 49 | 21 24 | 6 35 | 22 13 | 0 23 | 0 57 | 2 23 | 17 0 | 0 21 | 9 21 | 0 53 | 23 23 | 1 47 | 17 21 | 17 10 | 15 57 | 15 51 | 2 35 |
| M28 | 19 5 | 7 34 | 4 15 | 14 5 | 1 0 | 6 1 | 0 46 | 21 30 | 6 37 | 22 13 | 0 22 | 0 59 | 2 23 | 17 0 | 0 21 | 9 22 | 0 53 | 23 23 | 1 47 | 17 19 | 17 9 | 15 54 | 15 51 | 2 35 |
| T 29 | 18 51 | 1 1 | 3 26 | 13 26 | 0 53 | 5 31 | 0 43 | 21 36 | 6 39 | 22 13 | 0 22 | 1 1 | 2 22 | 17 1 | 0 21 | 9 22 | 0 53 | 23 23 | 1 47 | 17 18 | 17 8 | 15 52 | 15 52 | 2 36 |
| W30 | 18 36 | 5n25 | 2 25 | 12 47 | 0 46 | 5 1 | 0 39 | 21 42 | 6 42 | 22 13 | 0 22 | 1 3 | 2 22 | 17 1 | 0 21 | 9 23 | 0 53 | 23 23 | 1 47 | 17 17 | 17 7 | 15 49 | 15 52 | 2 36 |
| T 31 | 18n22 | 11n26 | 1s18 | 12n 7 | 0n38 | 4n31 | 0n35 | 21s49 | 6s43 | 22s12 | 0n22 | 1s 5 | 2n22 | 17n 1 | 0s21 | 9s23 | 0s53 | 23n23 | 1n47 | 17n17 | 17n 7 | 15n46 | 15n52 | 2s36 |

Julian Day Number = 2337405.5, Delta T = 19.63 sec
Ecliptic obliquity = 23°28'53, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'41, Lahiri = 19°29'41Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## AUGUST 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 38 53 | 8♌42'28 | 16♉43 | 1♍26 | 21♍ 6 | 17°R53 | 14°R23 | 8♎16 | 18♉29 | 8°R 3 | 22♋27 | 18°R11 | 17♉32 | 1♍13 | 22♉21 | F 1 |
| S 2 | 20 42 49 | 9°39'57 | 29°45 | 2°55 | 22°14 | 17♒38 | 14♐21 | 8°21 | 18°30 | 8♓ 1 | 22°29 | 18♉11 | 17°29 | 1°20 | 22°23 | S 2 |
| S 3 | 20 46 46 | 10°37'27 | 12♊29 | 4°22 | 23°21 | 17°23 | 14°20 | 8°26 | 18°31 | 8° 0 | 22°30 | 18° 9 | 17°26 | 1°26 | 22°25 | S 3 |
| M 4 | 20 50 42 | 11°34'59 | 25° 0 | 5°48 | 24°28 | 17° 8 | 14°18 | 8°31 | 18°32 | 7°58 | 22°32 | 18° 5 | 17°23 | 1°33 | 22°26 | M 4 |
| T 5 | 20 54 39 | 12°32'32 | 7♋19 | 7°12 | 25°35 | 16°53 | 14°17 | 8°36 | 18°33 | 7°57 | 22°33 | 17°58 | 17°19 | 1°40 | 22°28 | T 5 |
| W 6 | 20 58 35 | 13°30'06 | 19°29 | 8°34 | 26°42 | 16°37 | 14°16 | 8°41 | 18°34 | 7°55 | 22°35 | 17°48 | 17°16 | 1°46 | 22°29 | W 6 |
| T 7 | 21 2 32 | 14°27'42 | 1♌33 | 9°54 | 27°49 | 16°21 | 14°15 | 8°46 | 18°35 | 7°54 | 22°36 | 17°36 | 17°13 | 1°53 | 22°31 | T 7 |
| F 8 | 21 6 29 | 15°25'19 | 13°31 | 11°13 | 28°56 | 16° 5 | 14°14 | 8°52 | 18°36 | 7°52 | 22°38 | 17°22 | 17°10 | 2° 0 | 22°32 | F 8 |
| S 9 | 21 10 25 | 16°22'57 | 25°25 | 12°29 | 0♎ 2 | 15°49 | 14°14 | 8°57 | 18°36 | 7°51 | 22°40 | 17° 8 | 17° 7 | 2° 7 | 22°33 | S 9 |
| S 10 | 21 14 22 | 17°20'36 | 7♍17 | 13°44 | 1° 9 | 15°33 | 14°14 | 9° 2 | 18°37 | 7°49 | 22°41 | 16°55 | 17° 4 | 2°13 | 22°34 | S 10 |
| M11 | 21 18 18 | 18°18'16 | 19° 7 | 14°57 | 2°15 | 15°17 | 14°D14 | 9° 8 | 18°38 | 7°48 | 22°43 | 16°43 | 17° 0 | 2°20 | 22°36 | M11 |
| T 12 | 21 22 15 | 19°15'57 | 0♎59 | 16° 7 | 3°21 | 15° 2 | 14°14 | 9°13 | 18°39 | 7°46 | 22°44 | 16°34 | 16°57 | 2°27 | 22°37 | T 12 |
| W13 | 21 26 11 | 20°13'40 | 12°55 | 17°15 | 4°27 | 14°46 | 14°14 | 9°19 | 18°39 | 7°45 | 22°46 | 16°28 | 16°54 | 2°33 | 22°38 | W13 |
| T 14 | 21 30 8 | 21°11'24 | 24°58 | 18°21 | 5°32 | 14°31 | 14°15 | 9°25 | 18°40 | 7°43 | 22°47 | 16°25 | 16°51 | 2°40 | 22°39 | T 14 |
| F 15 | 21 34 4 | 22° 9'08 | 7♏13 | 19°25 | 6°38 | 14°15 | 14°15 | 9°30 | 18°40 | 7°42 | 22°48 | 16°23 | 16°48 | 2°47 | 22°39 | F 15 |
| S 16 | 21 38 1 | 23° 6'54 | 19°45 | 20°26 | 7°43 | 14° 1 | 14°16 | 9°36 | 18°41 | 7°40 | 22°50 | 16°23 | 16°45 | 2°54 | 22°40 | S 16 |
| S 17 | 21 41 57 | 24° 4'42 | 2♐38 | 21°24 | 8°48 | 13°46 | 14°17 | 9°42 | 18°41 | 7°39 | 22°51 | 16°23 | 16°41 | 3° 0 | 22°41 | S 17 |
| M18 | 21 45 54 | 25° 2'30 | 15°56 | 22°20 | 9°53 | 13°32 | 14°18 | 9°48 | 18°41 | 7°37 | 22°53 | 16°22 | 16°38 | 3° 7 | 22°42 | M18 |
| T 19 | 21 49 51 | 26° 0'20 | 29°44 | 23°13 | 10°58 | 13°18 | 14°20 | 9°54 | 18°42 | 7°35 | 22°54 | 16°19 | 16°35 | 3°14 | 22°42 | T 19 |
| W20 | 21 53 47 | 26°58'10 | 14♑ 1 | 24° 3 | 12° 3 | 13° 5 | 14°21 | 10° 0 | 18°42 | 7°34 | 22°56 | 16°13 | 16°32 | 3°21 | 22°43 | W20 |
| T 21 | 21 57 44 | 27°56'03 | 28°46 | 24°49 | 13° 7 | 12°52 | 14°23 | 10° 6 | 18°42 | 7°32 | 22°57 | 16° 5 | 16°29 | 3°27 | 22°43 | T 21 |
| F 22 | 22 1 40 | 28°53'56 | 13♒52 | 25°32 | 14°11 | 12°40 | 14°25 | 10°12 | 18°42 | 7°31 | 22°58 | 15°55 | 16°25 | 3°34 | 22°44 | F 22 |
| S 23 | 22 5 37 | 29°51'51 | 29°11 | 26°11 | 15°15 | 12°28 | 14°27 | 10°18 | 18°42 | 7°29 | 23° 0 | 15°44 | 16°22 | 3°41 | 22°44 | S 23 |
| S 24 | 22 9 33 | 0♍49'47 | 14♓30 | 26°47 | 16°19 | 12°17 | 14°30 | 10°24 | 18°R42 | 7°27 | 23° 1 | 15°34 | 16°19 | 3°47 | 22°45 | S 24 |
| M25 | 22 13 30 | 1°47'45 | 29°39 | 27°18 | 17°22 | 12° 7 | 14°32 | 10°30 | 18°42 | 7°26 | 23° 2 | 15°26 | 16°16 | 3°54 | 22°45 | M25 |
| T 26 | 22 17 26 | 2°45'45 | 14♈29 | 27°44 | 18°25 | 11°57 | 14°35 | 10°37 | 18°42 | 7°24 | 23° 4 | 15°21 | 16°13 | 4° 1 | 22°45 | T 26 |
| W27 | 22 21 23 | 3°43'46 | 28°52 | 28° 6 | 19°28 | 11°48 | 14°38 | 10°43 | 18°42 | 7°22 | 23° 5 | 15°18 | 16°10 | 4° 8 | 22°45 | W27 |
| T 28 | 22 25 20 | 4°41'50 | 12♉47 | 28°24 | 20°31 | 11°39 | 14°41 | 10°49 | 18°42 | 7°21 | 23° 6 | 15°D17 | 16° 6 | 4°14 | 22°R45 | T 28 |
| F 29 | 22 29 16 | 5°39'56 | 26°15 | 28°35 | 21°33 | 11°31 | 14°44 | 10°56 | 18°42 | 7°19 | 23° 8 | 15°17 | 16° 3 | 4°21 | 22°45 | F 29 |
| S 30 | 22 33 13 | 6°38'03 | 9♊18 | 28°42 | 22°36 | 11°24 | 14°47 | 11° 2 | 18°42 | 7°17 | 23° 9 | 15°R17 | 16° 0 | 4°28 | 22°45 | S 30 |
| S 31 | 22 37 9 | 7♍36'13 | 21♊59 | 28°R42 | 23♎37 | 11♒18 | 14♐51 | 11♎ 9 | 18♉41 | 7♓16 | 23♋10 | 15♉16 | 15♉57 | 4♍34 | 22♉45 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18n 7 | 16n44 | 0s 8 | 11n27 | 0n30 | 4n 1 | 0n32 | 21s55 | 6s45 | 22s12 | 0n22 | 1s 7 | 2n22 | 17n 2 | 0s21 | 9s24 | 0s54 | 23n22 | 1n47 | 17n17 | 17n 6 | 15n44 | 15n52 | 2s36 |
| S 2 | 17 52 | 21 7 | 1n 1 | 10 48 | 0 22 | 3 31 | 0 28 | 22 1 | 6 47 | 22 12 | 0 21 | 1 9 | 2 22 | 17 2 | 0 21 | 9 24 | 0 54 | 23 22 | 1 48 | 17 17 | 17 5 | 15 41 | 15 52 | 2 37 |
| S 3 | 17 36 | 24 24 | 2 5 | 10 8 | 0 14 | 3 1 | 0 24 | 22 7 | 6 48 | 22 12 | 0 21 | 1 11 | 2 21 | 17 2 | 0 21 | 9 25 | 0 54 | 23 22 | 1 48 | 17 16 | 17 4 | 15 38 | 15 53 | 2 37 |
| M 4 | 17 20 | 26 24 | 3 1 | 9 29 | 0 5 | 2 30 | 0 20 | 22 13 | 6 49 | 22 12 | 0 21 | 1 13 | 2 21 | 17 2 | 0 21 | 9 25 | 0 54 | 23 22 | 1 48 | 17 15 | 17 3 | 15 36 | 15 53 | 2 37 |
| T 5 | 17 4 | 27 5 | 3 48 | 8 50 | 0s 4 | 2 0 | 0 16 | 22 19 | 6 50 | 22 12 | 0 21 | 1 15 | 2 21 | 17 3 | 0 21 | 9 26 | 0 54 | 23 22 | 1 48 | 17 13 | 17 2 | 15 33 | 15 53 | 2 37 |
| W 6 | 16 48 | 26 25 | 4 24 | 8 10 | 0 13 | 1 29 | 0 12 | 22 24 | 6 51 | 22 13 | 0 21 | 1 17 | 2 21 | 17 3 | 0 21 | 9 27 | 0 54 | 23 22 | 1 48 | 17 10 | 17 1 | 15 31 | 15 53 | 2 38 |
| T 7 | 16 31 | 24 32 | 4 48 | 7 32 | 0 22 | 0 59 | 0 7 | 22 30 | 6 51 | 22 13 | 0 21 | 1 20 | 2 21 | 17 3 | 0 21 | 9 27 | 0 54 | 23 21 | 1 48 | 17 7 | 17 0 | 15 28 | 15 53 | 2 38 |
| F 8 | 16 14 | 21 33 | 4 59 | 6 53 | 0 31 | 0 28 | 0 3 | 22 35 | 6 52 | 22 13 | 0 20 | 1 22 | 2 21 | 17 3 | 0 21 | 9 28 | 0 54 | 23 21 | 1 48 | 17 3 | 16 59 | 15 25 | 15 53 | 2 38 |
| S 9 | 15 57 | 17 43 | 4 56 | 6 15 | 0 41 | 0s 2 | 0s 1 | 22 40 | 6 52 | 22 13 | 0 20 | 1 24 | 2 20 | 17 4 | 0 21 | 9 28 | 0 54 | 23 21 | 1 48 | 16 59 | 16 58 | 15 23 | 15 53 | 2 38 |
| S 10 | 15 40 | 13 12 | 4 41 | 5 38 | 0 51 | 0 33 | 0 6 | 22 45 | 6 52 | 22 13 | 0 20 | 1 26 | 2 20 | 17 4 | 0 21 | 9 29 | 0 54 | 23 21 | 1 48 | 16 55 | 16 58 | 15 20 | 15 53 | 2 39 |
| M11 | 15 22 | 8 12 | 4 14 | 5 1 | 1 1 | 1 3 | 0 10 | 22 49 | 6 52 | 22 13 | 0 20 | 1 29 | 2 20 | 17 4 | 0 21 | 9 29 | 0 54 | 23 21 | 1 48 | 16 52 | 16 57 | 15 17 | 15 53 | 2 39 |
| T 12 | 15 4 | 2 54 | 3 35 | 4 24 | 1 11 | 1 34 | 0 15 | 22 54 | 6 51 | 22 13 | 0 20 | 1 31 | 2 20 | 17 4 | 0 21 | 9 30 | 0 54 | 23 21 | 1 48 | 16 49 | 16 56 | 15 15 | 15 53 | 2 39 |
| W13 | 14 46 | 2s33 | 2 47 | 3 48 | 1 21 | 2 4 | 0 20 | 22 58 | 6 51 | 22 14 | 0 19 | 1 33 | 2 20 | 17 4 | 0 21 | 9 31 | 0 54 | 23 20 | 1 48 | 16 47 | 16 55 | 15 12 | 15 53 | 2 40 |
| T 14 | 14 28 | 7 58 | 1 51 | 3 13 | 1 31 | 2 35 | 0 24 | 23 2 | 6 50 | 22 14 | 0 19 | 1 36 | 2 20 | 17 4 | 0 21 | 9 31 | 0 54 | 23 20 | 1 49 | 16 46 | 16 54 | 15 9 | 15 53 | 2 40 |
| F 15 | 14 9 | 13 11 | 0 48 | 2 39 | 1 41 | 3 5 | 0 29 | 23 5 | 6 49 | 22 14 | 0 19 | 1 38 | 2 19 | 17 5 | 0 21 | 9 32 | 0 54 | 23 20 | 1 49 | 16 46 | 16 53 | 15 7 | 15 53 | 2 40 |
| S 16 | 13 50 | 17 59 | 0s18 | 2 6 | 1 51 | 3 35 | 0 34 | 23 9 | 6 48 | 22 14 | 0 19 | 1 41 | 2 19 | 17 5 | 0 21 | 9 32 | 0 54 | 23 20 | 1 49 | 16 46 | 16 52 | 15 4 | 15 53 | 2 40 |
| S 17 | 13 31 | 22 6 | 1 25 | 1 33 | 2 1 | 4 6 | 0 39 | 23 12 | 6 46 | 22 15 | 0 19 | 1 43 | 2 19 | 17 5 | 0 21 | 9 33 | 0 54 | 23 20 | 1 49 | 16 46 | 16 51 | 15 1 | 15 53 | 2 41 |
| M18 | 13 12 | 25 13 | 2 29 | 1 2 | 2 12 | 4 36 | 0 44 | 23 14 | 6 45 | 22 15 | 0 19 | 1 45 | 2 19 | 17 5 | 0 21 | 9 34 | 0 54 | 23 20 | 1 49 | 16 46 | 16 50 | 14 59 | 15 53 | 2 41 |
| T 19 | 12 52 | 26 57 | 3 28 | 0 32 | 2 22 | 5 6 | 0 49 | 23 17 | 6 43 | 22 15 | 0 18 | 1 48 | 2 19 | 17 5 | 0 21 | 9 34 | 0 54 | 23 19 | 1 49 | 16 45 | 16 49 | 14 56 | 15 53 | 2 41 |
| W20 | 12 33 | 26 58 | 4 15 | 0 3 | 2 32 | 5 36 | 0 54 | 23 19 | 6 41 | 22 16 | 0 18 | 1 50 | 2 19 | 17 5 | 0 21 | 9 35 | 0 54 | 23 19 | 1 49 | 16 43 | 16 49 | 14 53 | 15 53 | 2 41 |
| T 21 | 12 13 | 25 8 | 4 48 | 0s25 | 2 42 | 6 6 | 0 59 | 23 20 | 6 39 | 22 16 | 0 18 | 1 53 | 2 19 | 17 5 | 0 21 | 9 35 | 0 54 | 23 19 | 1 49 | 16 41 | 16 48 | 14 50 | 15 53 | 2 42 |
| F 22 | 11 53 | 21 29 | 5 1 | 0 51 | 2 52 | 6 36 | 1 4 | 23 22 | 6 36 | 22 16 | 0 18 | 1 55 | 2 18 | 17 5 | 0 21 | 9 36 | 0 54 | 23 19 | 1 49 | 16 38 | 16 47 | 14 48 | 15 53 | 2 42 |
| S 23 | 11 32 | 16 21 | 4 53 | 1 15 | 3 1 | 7 5 | 1 10 | 23 23 | 6 34 | 22 17 | 0 18 | 1 58 | 2 18 | 17 5 | 0 21 | 9 37 | 0 54 | 23 19 | 1 49 | 16 35 | 16 46 | 14 45 | 15 52 | 2 42 |
| S 24 | 11 12 | 10 10 | 4 24 | 1 38 | 3 11 | 7 35 | 1 15 | 23 24 | 6 31 | 22 17 | 0 18 | 2 0 | 2 18 | 17 5 | 0 21 | 9 37 | 0 54 | 23 19 | 1 49 | 16 32 | 16 45 | 14 42 | 15 52 | 2 43 |
| M25 | 10 51 | 3 27 | 3 37 | 1 58 | 3 20 | 8 4 | 1 20 | 23 24 | 6 29 | 22 18 | 0 17 | 2 3 | 2 18 | 17 5 | 0 21 | 9 38 | 0 54 | 23 19 | 1 50 | 16 30 | 16 44 | 14 40 | 15 52 | 2 43 |
| T 26 | 10 30 | 3n20 | 2 35 | 2 17 | 3 28 | 8 33 | 1 26 | 23 24 | 6 26 | 22 18 | 0 17 | 2 5 | 2 18 | 17 5 | 0 21 | 9 39 | 0 54 | 23 18 | 1 50 | 16 28 | 16 43 | 14 37 | 15 52 | 2 43 |
| W27 | 10 9 | 9 45 | 1 26 | 2 33 | 3 37 | 9 2 | 1 31 | 23 24 | 6 23 | 22 19 | 0 17 | 2 8 | 2 18 | 17 5 | 0 21 | 9 39 | 0 54 | 23 18 | 1 50 | 16 27 | 16 42 | 14 34 | 15 51 | 2 43 |
| T 28 | 9 48 | 15 30 | 0 13 | 2 47 | 3 44 | 9 31 | 1 37 | 23 23 | 6 20 | 22 19 | 0 17 | 2 11 | 2 18 | 17 5 | 0 21 | 9 40 | 0 54 | 23 18 | 1 50 | 16 27 | 16 41 | 14 31 | 15 51 | 2 44 |
| F 29 | 9 27 | 20 17 | 0n58 | 2 59 | 3 51 | 10 0 | 1 42 | 23 23 | 6 16 | 22 20 | 0 17 | 2 13 | 2 18 | 17 5 | 0 21 | 9 40 | 0 54 | 23 18 | 1 50 | 16 27 | 16 40 | 14 29 | 15 51 | 2 44 |
| S 30 | 9 6 | 23 55 | 2 4 | 3 7 | 3 58 | 10 28 | 1 48 | 23 21 | 6 13 | 22 20 | 0 17 | 2 16 | 2 18 | 17 5 | 0 21 | 9 41 | 0 54 | 23 18 | 1 50 | 16 27 | 16 39 | 14 26 | 15 51 | 2 44 |
| S 31 | 8n44 | 26n16 | 3n 2 | 3s12 | 4s 4 | 10s56 | 1s53 | 23s20 | 6s 9 | 22s21 | 0n16 | 2s19 | 2n17 | 17n 5 | 0s21 | 9s42 | 0s54 | 23n18 | 1n50 | 16n27 | 16n38 | 14n23 | 15n50 | 2s44 |

Julian Day Number = 2337436.5, Delta T = 19.59 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'45, Lahiri = 19°29'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## SEPTEMBER 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 41 6 | 8♍34'25 | 4♋24 | 28°R36 | 24♎39 | 11°R12 | 14♐55 | 11♎15 | 18°R41 | 7°R14 | 23♋11 | 15°R13 | 15♉54 | 4♍41 | 22°R45 | M 1 |
| T 2 | 22 45 2 | 9°32'38 | 16°36 | 28♍24 | 25°40 | 11♒ 7 | 14°59 | 11°22 | 18♉40 | 7♓12 | 23°12 | 15♉ 8 | 15°51 | 4°48 | 22♉45 | T 2 |
| W 3 | 22 48 59 | 10°30'54 | 28°38 | 28° 6 | 26°41 | 11° 3 | 15° 3 | 11°28 | 18°40 | 7°11 | 23°14 | 15° 0 | 15°47 | 4°55 | 22°44 | W 3 |
| T 4 | 22 52 55 | 11°29'11 | 10♌35 | 27°41 | 27°42 | 11° 0 | 15° 7 | 11°35 | 18°39 | 7° 9 | 23°15 | 14°49 | 15°44 | 5° 1 | 22°44 | T 4 |
| F 5 | 22 56 52 | 12°27'31 | 22°28 | 27°10 | 28°43 | 10°57 | 15°11 | 11°42 | 18°39 | 7° 8 | 23°16 | 14°38 | 15°41 | 5° 8 | 22°43 | F 5 |
| S 6 | 23 0 49 | 13°25'52 | 4♍20 | 26°32 | 29°43 | 10°55 | 15°16 | 11°48 | 18°38 | 7° 6 | 23°17 | 14°26 | 15°38 | 5°15 | 22°43 | S 6 |
| S 7 | 23 4 45 | 14°24'15 | 16°12 | 25°48 | 0♏42 | 10°54 | 15°21 | 11°55 | 18°38 | 7° 4 | 23°18 | 14°15 | 15°35 | 5°21 | 22°42 | S 7 |
| M 8 | 23 8 42 | 15°22'40 | 28° 5 | 24°59 | 1°42 | 10°D54 | 15°26 | 12° 2 | 18°37 | 7° 3 | 23°19 | 14° 5 | 15°31 | 5°28 | 22°42 | M 8 |
| T 9 | 23 12 38 | 16°21'07 | 10♎ 1 | 24° 5 | 2°41 | 10°55 | 15°31 | 12° 9 | 18°36 | 7° 1 | 23°20 | 13°57 | 15°28 | 5°35 | 22°41 | T 9 |
| W10 | 23 16 35 | 17°19'36 | 22° 2 | 23° 7 | 3°40 | 10°56 | 15°36 | 12°16 | 18°35 | 6°59 | 23°22 | 13°52 | 15°25 | 5°42 | 22°40 | W10 |
| T 11 | 23 20 31 | 18°18'06 | 4♏11 | 22° 6 | 4°38 | 10°59 | 15°41 | 12°23 | 18°35 | 6°58 | 23°23 | 13°50 | 15°22 | 5°48 | 22°39 | T 11 |
| F 12 | 23 24 28 | 19°16'38 | 16°31 | 21° 3 | 5°36 | 11° 2 | 15°47 | 12°29 | 18°34 | 6°56 | 23°24 | 13°D50 | 15°19 | 5°55 | 22°38 | F 12 |
| S 13 | 23 28 24 | 20°15'12 | 29° 5 | 20° 0 | 6°33 | 11° 6 | 15°53 | 12°36 | 18°33 | 6°55 | 23°25 | 13°50 | 15°16 | 6° 2 | 22°37 | S 13 |
| S 14 | 23 32 21 | 21°13'48 | 11♐58 | 18°58 | 7°30 | 11°11 | 15°59 | 12°43 | 18°32 | 6°53 | 23°26 | 13°51 | 15°12 | 6° 8 | 22°36 | S 14 |
| M15 | 23 36 18 | 22°12'25 | 25°12 | 17°59 | 8°27 | 11°16 | 16° 5 | 12°50 | 18°31 | 6°51 | 23°27 | 13°R52 | 15° 9 | 6°15 | 22°35 | M15 |
| T 16 | 23 40 14 | 23°11'04 | 8♑51 | 17° 4 | 9°23 | 11°23 | 16°11 | 12°57 | 18°30 | 6°50 | 23°27 | 13°50 | 15° 6 | 6°22 | 22°34 | T 16 |
| W17 | 23 44 11 | 24° 9'45 | 22°57 | 16°15 | 10°18 | 11°30 | 16°17 | 13° 5 | 18°28 | 6°48 | 23°28 | 13°47 | 15° 3 | 6°29 | 22°33 | W17 |
| T 18 | 23 48 7 | 25° 8'27 | 7♒29 | 15°33 | 11°13 | 11°38 | 16°24 | 13°12 | 18°27 | 6°47 | 23°29 | 13°42 | 15° 0 | 6°35 | 22°32 | T 18 |
| F 19 | 23 52 4 | 26° 7'11 | 22°23 | 14°59 | 12° 8 | 11°46 | 16°30 | 13°19 | 18°26 | 6°45 | 23°30 | 13°36 | 14°56 | 6°42 | 22°30 | F 19 |
| S 20 | 23 56 0 | 27° 5'57 | 7♓32 | 14°34 | 13° 2 | 11°56 | 16°37 | 13°26 | 18°25 | 6°44 | 23°31 | 13°29 | 14°53 | 6°49 | 22°29 | S 20 |
| S 21 | 23 59 57 | 28° 4'44 | 22°46 | 14°18 | 13°55 | 12° 6 | 16°44 | 13°33 | 18°23 | 6°42 | 23°32 | 13°22 | 14°50 | 6°55 | 22°27 | S 21 |
| M22 | 0 3 53 | 29° 3'34 | 7♈54 | 14°D13 | 14°48 | 12°17 | 16°51 | 13°40 | 18°22 | 6°41 | 23°33 | 13°16 | 14°47 | 7° 2 | 22°26 | M22 |
| T 23 | 0 7 50 | 0♎ 2'25 | 22°47 | 14°17 | 15°40 | 12°28 | 16°58 | 13°47 | 18°21 | 6°39 | 23°33 | 13°13 | 14°44 | 7° 9 | 22°24 | T 23 |
| W24 | 0 11 47 | 1° 1'19 | 7♉18 | 14°32 | 16°32 | 12°40 | 17° 6 | 13°54 | 18°19 | 6°38 | 23°34 | 13°D11 | 14°41 | 7°16 | 22°23 | W24 |
| T 25 | 0 15 43 | 2° 0'15 | 21°21 | 14°57 | 17°23 | 12°53 | 17°13 | 14° 2 | 18°18 | 6°36 | 23°35 | 13°11 | 14°37 | 7°22 | 22°21 | T 25 |
| F 26 | 0 19 40 | 2°59'14 | 4♊57 | 15°31 | 18°13 | 13° 7 | 17°21 | 14° 9 | 18°16 | 6°35 | 23°36 | 13°12 | 14°34 | 7°29 | 22°19 | F 26 |
| S 27 | 0 23 36 | 3°58'14 | 18° 6 | 16°14 | 19° 3 | 13°21 | 17°29 | 14°16 | 18°15 | 6°33 | 23°36 | 13°14 | 14°31 | 7°36 | 22°17 | S 27 |
| S 28 | 0 27 33 | 4°57'17 | 0♋51 | 17° 6 | 19°51 | 13°36 | 17°37 | 14°23 | 18°13 | 6°32 | 23°37 | 13°R15 | 14°28 | 7°42 | 22°16 | S 28 |
| M29 | 0 31 29 | 5°56'23 | 13°17 | 18° 5 | 20°40 | 13°51 | 17°45 | 14°31 | 18°12 | 6°31 | 23°38 | 13°15 | 14°25 | 7°49 | 22°14 | M29 |
| T 30 | 0 35 26 | 6♎55'30 | 25♋28 | 19♍11 | 21♏27 | 14♒ 7 | 17♐53 | 14♎38 | 18♉10 | 6♓29 | 23♋38 | 13♉13 | 14♉22 | 7♍56 | 22♉12 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8n22 | 27n14 | 3n50 | 3s14 | 4s 8 | 11s24 | 1s59 | 23s18 | 6s 6 | 22s21 | 0n16 | 2s21 | 2n17 | 17n 5 | 0s21 | 9s42 | 0s54 | 23n18 | 1n50 | 16n26 | 16n38 | 14n20 | 15n50 | 2s45 |
| T 2 | 8 0 | 26 51 | 4 26 | 3 13 | 4 12 | 11 52 | 2 4 | 23 16 | 6 2 | 22 22 | 0 16 | 2 24 | 2 17 | 17 4 | 0 21 | 9 43 | 0 54 | 23 18 | 1 50 | 16 24 | 16 37 | 14 18 | 15 50 | 2 45 |
| W 3 | 7 38 | 25 13 | 4 51 | 3 8 | 4 15 | 12 20 | 2 10 | 23 14 | 5 59 | 22 23 | 0 16 | 2 27 | 2 17 | 17 4 | 0 21 | 9 44 | 0 54 | 23 18 | 1 50 | 16 22 | 16 36 | 14 15 | 15 49 | 2 45 |
| T 4 | 7 16 | 22 27 | 5 2 | 2 59 | 4 16 | 12 47 | 2 16 | 23 11 | 5 55 | 22 23 | 0 16 | 2 29 | 2 17 | 17 4 | 0 21 | 9 44 | 0 54 | 23 17 | 1 50 | 16 19 | 16 35 | 14 12 | 15 49 | 2 46 |
| F 5 | 6 54 | 18 46 | 5 0 | 2 47 | 4 16 | 13 14 | 2 21 | 23 8 | 5 51 | 22 24 | 0 16 | 2 32 | 2 17 | 17 4 | 0 21 | 9 45 | 0 54 | 23 17 | 1 51 | 16 15 | 16 34 | 14 9 | 15 49 | 2 46 |
| S 6 | 6 31 | 14 21 | 4 45 | 2 30 | 4 14 | 13 41 | 2 27 | 23 4 | 5 47 | 22 25 | 0 15 | 2 35 | 2 17 | 17 4 | 0 21 | 9 45 | 0 54 | 23 17 | 1 51 | 16 12 | 16 33 | 14 7 | 15 48 | 2 46 |
| S 7 | 6 9 | 9 25 | 4 18 | 2 9 | 4 10 | 14 8 | 2 33 | 23 1 | 5 43 | 22 25 | 0 15 | 2 37 | 2 17 | 17 4 | 0 21 | 9 46 | 0 54 | 23 17 | 1 51 | 16 8 | 16 32 | 14 4 | 15 48 | 2 46 |
| M 8 | 5 46 | 4 7 | 3 39 | 1 45 | 4 5 | 14 34 | 2 39 | 22 57 | 5 39 | 22 26 | 0 15 | 2 40 | 2 17 | 17 3 | 0 21 | 9 47 | 0 54 | 23 17 | 1 51 | 16 6 | 16 31 | 14 1 | 15 47 | 2 47 |
| T 9 | 5 24 | 1s22 | 2 51 | 1 17 | 3 58 | 15 0 | 2 44 | 22 53 | 5 35 | 22 27 | 0 15 | 2 43 | 2 17 | 17 3 | 0 21 | 9 47 | 0 54 | 23 17 | 1 51 | 16 3 | 16 30 | 13 58 | 15 47 | 2 47 |
| W10 | 5 1 | 6 50 | 1 54 | 0 45 | 3 48 | 15 25 | 2 50 | 22 48 | 5 31 | 22 27 | 0 15 | 2 46 | 2 16 | 17 3 | 0 21 | 9 48 | 0 54 | 23 17 | 1 51 | 16 2 | 16 29 | 13 55 | 15 47 | 2 47 |
| T 11 | 4 38 | 12 8 | 0 51 | 0 11 | 3 37 | 15 51 | 2 56 | 22 44 | 5 26 | 22 28 | 0 15 | 2 48 | 2 16 | 17 3 | 0 21 | 9 48 | 0 54 | 23 17 | 1 51 | 16 1 | 16 28 | 13 53 | 15 46 | 2 47 |
| F 12 | 4 15 | 17 2 | 0s14 | 0n26 | 3 24 | 16 16 | 3 2 | 22 39 | 5 22 | 22 29 | 0 14 | 2 51 | 2 16 | 17 3 | 0 21 | 9 49 | 0 54 | 23 17 | 1 51 | 16 1 | 16 27 | 13 50 | 15 46 | 2 48 |
| S 13 | 3 52 | 21 19 | 1 21 | 1 4 | 3 9 | 16 40 | 3 7 | 22 34 | 5 18 | 22 30 | 0 14 | 2 54 | 2 16 | 17 2 | 0 21 | 9 50 | 0 54 | 23 17 | 1 51 | 16 1 | 16 26 | 13 47 | 15 45 | 2 48 |
| S 14 | 3 29 | 24 40 | 2 25 | 1 43 | 2 53 | 17 5 | 3 13 | 22 28 | 5 14 | 22 30 | 0 14 | 2 57 | 2 16 | 17 2 | 0 21 | 9 50 | 0 54 | 23 17 | 1 52 | 16 2 | 16 26 | 13 44 | 15 45 | 2 48 |
| M15 | 3 6 | 26 47 | 3 24 | 2 23 | 2 35 | 17 29 | 3 19 | 22 23 | 5 9 | 22 31 | 0 14 | 2 59 | 2 16 | 17 2 | 0 21 | 9 51 | 0 54 | 23 17 | 1 52 | 16 2 | 16 25 | 13 41 | 15 44 | 2 49 |
| T 16 | 2 43 | 27 23 | 4 12 | 3 1 | 2 16 | 17 52 | 3 25 | 22 17 | 5 5 | 22 32 | 0 14 | 3 2 | 2 16 | 17 1 | 0 21 | 9 51 | 0 54 | 23 16 | 1 52 | 16 1 | 16 24 | 13 39 | 15 43 | 2 49 |
| W17 | 2 19 | 26 15 | 4 48 | 3 38 | 1 57 | 18 16 | 3 30 | 22 10 | 5 1 | 22 33 | 0 14 | 3 5 | 2 16 | 17 1 | 0 21 | 9 52 | 0 54 | 23 16 | 1 52 | 16 0 | 16 23 | 13 36 | 15 43 | 2 49 |
| T 18 | 1 56 | 23 21 | 5 6 | 4 13 | 1 37 | 18 38 | 3 36 | 22 4 | 4 56 | 22 34 | 0 14 | 3 8 | 2 16 | 17 1 | 0 21 | 9 53 | 0 54 | 23 16 | 1 52 | 15 59 | 16 22 | 13 33 | 15 42 | 2 49 |
| F 19 | 1 33 | 18 52 | 5 4 | 4 45 | 1 17 | 19 1 | 3 41 | 21 58 | 4 52 | 22 34 | 0 13 | 3 11 | 2 16 | 17 0 | 0 21 | 9 53 | 0 54 | 23 16 | 1 52 | 15 57 | 16 21 | 13 30 | 15 42 | 2 50 |
| S 20 | 1 9 | 13 6 | 4 41 | 5 13 | 0 57 | 19 23 | 3 47 | 21 51 | 4 48 | 22 35 | 0 13 | 3 13 | 2 16 | 17 0 | 0 21 | 9 54 | 0 54 | 23 16 | 1 52 | 15 55 | 16 20 | 13 27 | 15 41 | 2 50 |
| S 21 | 0 46 | 6 32 | 3 58 | 5 37 | 0 37 | 19 45 | 3 53 | 21 44 | 4 43 | 22 36 | 0 13 | 3 16 | 2 16 | 17 0 | 0 21 | 9 54 | 0 54 | 23 16 | 1 52 | 15 53 | 16 19 | 13 25 | 15 40 | 2 50 |
| M22 | 0 22 | 0n24 | 2 59 | 5 56 | 0 19 | 20 6 | 3 58 | 21 36 | 4 39 | 22 37 | 0 13 | 3 19 | 2 16 | 16 59 | 0 21 | 9 55 | 0 54 | 23 16 | 1 52 | 15 51 | 16 18 | 13 22 | 15 40 | 2 50 |
| T 23 | 0s 1 | 7 12 | 1 48 | 6 11 | 0 1 | 20 27 | 4 4 | 21 29 | 4 35 | 22 38 | 0 13 | 3 22 | 2 16 | 16 59 | 0 21 | 9 55 | 0 54 | 23 16 | 1 52 | 15 50 | 16 17 | 13 19 | 15 39 | 2 51 |
| W24 | 0 24 | 13 28 | 0 32 | 6 21 | 0n16 | 20 47 | 4 9 | 21 21 | 4 31 | 22 39 | 0 13 | 3 25 | 2 16 | 16 58 | 0 21 | 9 56 | 0 54 | 23 16 | 1 53 | 15 49 | 16 16 | 13 16 | 15 39 | 2 51 |
| T 25 | 0 48 | 18 51 | 0n44 | 6 26 | 0 32 | 21 7 | 4 14 | 21 14 | 4 26 | 22 40 | 0 13 | 3 28 | 2 16 | 16 58 | 0 21 | 9 56 | 0 54 | 23 16 | 1 53 | 15 50 | 16 15 | 13 13 | 15 38 | 2 51 |
| F 26 | 1 11 | 23 3 | 1 55 | 6 25 | 0 46 | 21 26 | 4 20 | 21 6 | 4 22 | 22 40 | 0 12 | 3 30 | 2 16 | 16 58 | 0 21 | 9 57 | 0 54 | 23 16 | 1 53 | 15 50 | 16 14 | 13 10 | 15 37 | 2 51 |
| S 27 | 1 35 | 25 54 | 2 58 | 6 21 | 0 59 | 21 45 | 4 25 | 20 58 | 4 18 | 22 41 | 0 12 | 3 33 | 2 16 | 16 57 | 0 21 | 9 58 | 0 54 | 23 16 | 1 53 | 15 50 | 16 13 | 13 8 | 15 36 | 2 52 |
| S 28 | 1 58 | 27 19 | 3 50 | 6 11 | 1 10 | 22 4 | 4 30 | 20 49 | 4 14 | 22 42 | 0 12 | 3 36 | 2 16 | 16 57 | 0 21 | 9 58 | 0 54 | 23 16 | 1 53 | 15 51 | 16 12 | 13 5 | 15 36 | 2 52 |
| M29 | 2 22 | 27 17 | 4 30 | 5 57 | 1 21 | 22 22 | 4 35 | 20 41 | 4 10 | 22 43 | 0 12 | 3 39 | 2 16 | 16 56 | 0 21 | 9 59 | 0 54 | 23 16 | 1 53 | 15 51 | 16 11 | 13 2 | 15 35 | 2 52 |
| T 30 | 2s45 | 25n56 | 4n56 | 5n40 | 1n30 | 22s40 | 4s40 | 20s32 | 4s 5 | 22s44 | 0n12 | 3s42 | 2n16 | 16n56 | 0s21 | 9s59 | 0s54 | 23n16 | 1n53 | 15n50 | 16n11 | 12n59 | 15n34 | 2s52 |

Julian Day Number = 2337467.5, Delta T = 19.55 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'50, Lahiri = 19°29'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## OCTOBER 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 39 22 | 7♎54'40 | 7♌28 | 20♍24 | 22♏13 | 14♒24 | 18♐ 1 | 14♎45 | 18°R 8 | 6°R28 | 23♋39 | 13°R10 | 14♉18 | 8♍ 3 | 22°R10 | W 1 |
| T 2 | 0 43 19 | 8°53'53 | 19°23 | 21°42 | 22°59 | 14°42 | 18°10 | 14°53 | 18♉ 6 | 6♓26 | 23°40 | 13♉ 5 | 14°15 | 8° 9 | 22♉ 8 | T 2 |
| F 3 | 0 47 16 | 9°53'07 | 1♍14 | 23° 4 | 23°44 | 14°59 | 18°18 | 15° 0 | 18° 5 | 6°25 | 23°40 | 12°59 | 14°12 | 8°16 | 22° 5 | F 3 |
| S 4 | 0 51 12 | 10°52'24 | 13° 5 | 24°31 | 24°27 | 15°18 | 18°27 | 15° 7 | 18° 3 | 6°24 | 23°41 | 12°53 | 14° 9 | 8°23 | 22° 3 | S 4 |
| S 5 | 0 55 9 | 11°51'43 | 24°59 | 26° 2 | 25°10 | 15°37 | 18°36 | 15°15 | 18° 1 | 6°23 | 23°41 | 12°47 | 14° 6 | 8°29 | 22° 1 | S 5 |
| M 6 | 0 59 5 | 12°51'03 | 6♎58 | 27°35 | 25°52 | 15°57 | 18°45 | 15°22 | 17°59 | 6°21 | 23°42 | 12°42 | 14° 2 | 8°36 | 21°59 | M 6 |
| T 7 | 1 3 2 | 13°50'27 | 19° 3 | 29°11 | 26°33 | 16°17 | 18°54 | 15°29 | 17°57 | 6°20 | 23°42 | 12°39 | 13°59 | 8°43 | 21°56 | T 7 |
| W 8 | 1 6 58 | 14°49'52 | 1♏16 | 0♎49 | 27°13 | 16°37 | 19° 3 | 15°37 | 17°55 | 6°19 | 23°43 | 12°37 | 13°56 | 8°49 | 21°54 | W 8 |
| T 9 | 1 10 55 | 15°49'19 | 13°38 | 2°29 | 27°51 | 16°59 | 19°12 | 15°44 | 17°53 | 6°18 | 23°43 | 12°D36 | 13°53 | 8°56 | 21°52 | T 9 |
| F 10 | 1 14 51 | 16°48'48 | 26°11 | 4° 9 | 28°28 | 17°20 | 19°22 | 15°51 | 17°51 | 6°17 | 23°43 | 12°37 | 13°50 | 9° 3 | 21°49 | F 10 |
| S 11 | 1 18 48 | 17°48'19 | 8♐57 | 5°51 | 29° 5 | 17°43 | 19°31 | 15°59 | 17°49 | 6°15 | 23°44 | 12°38 | 13°47 | 9°10 | 21°47 | S 11 |
| S 12 | 1 22 44 | 18°47'52 | 21°58 | 7°33 | 29°39 | 18° 5 | 19°41 | 16° 6 | 17°47 | 6°14 | 23°44 | 12°40 | 13°43 | 9°16 | 21°44 | S 12 |
| M13 | 1 26 41 | 19°47'26 | 5♑16 | 9°16 | 0♐13 | 18°29 | 19°51 | 16°13 | 17°45 | 6°13 | 23°44 | 12°41 | 13°40 | 9°23 | 21°42 | M13 |
| T 14 | 1 30 38 | 20°47'03 | 18°52 | 10°59 | 0°45 | 18°52 | 20° 1 | 16°21 | 17°43 | 6°12 | 23°45 | 12°R42 | 13°37 | 9°30 | 21°39 | T 14 |
| W15 | 1 34 34 | 21°46'41 | 2♒49 | 12°41 | 1°16 | 19°16 | 20°11 | 16°28 | 17°41 | 6°11 | 23°45 | 12°41 | 13°34 | 9°36 | 21°36 | W15 |
| T 16 | 1 38 31 | 22°46'21 | 17° 5 | 14°24 | 1°45 | 19°41 | 20°21 | 16°35 | 17°39 | 6°10 | 23°45 | 12°40 | 13°31 | 9°43 | 21°33 | T 16 |
| F 17 | 1 42 27 | 23°46'02 | 1♓38 | 16° 7 | 2°13 | 20° 6 | 20°31 | 16°42 | 17°36 | 6° 9 | 23°45 | 12°38 | 13°28 | 9°50 | 21°31 | F 17 |
| S 18 | 1 46 24 | 24°45'45 | 16°24 | 17°50 | 2°39 | 20°31 | 20°41 | 16°50 | 17°34 | 6° 8 | 23°46 | 12°36 | 13°24 | 9°57 | 21°28 | S 18 |
| S 19 | 1 50 20 | 25°45'30 | 1♈16 | 19°32 | 3° 3 | 20°57 | 20°52 | 16°57 | 17°32 | 6° 7 | 23°46 | 12°34 | 13°21 | 10° 3 | 21°25 | S 19 |
| M20 | 1 54 17 | 26°45'17 | 16° 7 | 21°14 | 3°25 | 21°23 | 21° 2 | 17° 4 | 17°30 | 6° 6 | 23°46 | 12°32 | 13°18 | 10°10 | 21°22 | M20 |
| T 21 | 1 58 13 | 27°45'05 | 0♉49 | 22°55 | 3°46 | 21°50 | 21°13 | 17°12 | 17°27 | 6° 5 | 23°46 | 12°31 | 13°15 | 10°17 | 21°19 | T 21 |
| W22 | 2 2 10 | 28°44'56 | 15°14 | 24°36 | 4° 5 | 22°17 | 21°24 | 17°19 | 17°25 | 6° 5 | 23°46 | 12°D30 | 13°12 | 10°23 | 21°16 | W22 |
| T 23 | 2 6 7 | 29°44'49 | 29°18 | 26°16 | 4°22 | 22°44 | 21°34 | 17°26 | 17°23 | 6° 4 | 23°46 | 12°31 | 13° 8 | 10°30 | 21°13 | T 23 |
| F 24 | 2 10 3 | 0♏44'44 | 12♊57 | 27°56 | 4°36 | 23°12 | 21°45 | 17°33 | 17°20 | 6° 3 | 23°46 | 12°32 | 13° 5 | 10°37 | 21°10 | F 24 |
| S 25 | 2 14 0 | 1°44'41 | 26°12 | 29°36 | 4°49 | 23°40 | 21°56 | 17°40 | 17°18 | 6° 2 | 23°R46 | 12°33 | 13° 2 | 10°44 | 21° 7 | S 25 |
| S 26 | 2 17 56 | 2°44'40 | 9♋ 3 | 1♏15 | 5° 0 | 24° 8 | 22° 7 | 17°48 | 17°15 | 6° 1 | 23°46 | 12°34 | 12°59 | 10°50 | 21° 4 | S 26 |
| M27 | 2 21 53 | 3°44'42 | 21°33 | 2°54 | 5° 8 | 24°37 | 22°18 | 17°55 | 17°13 | 6° 1 | 23°46 | 12°34 | 12°56 | 10°57 | 21° 1 | M27 |
| T 28 | 2 25 49 | 4°44'45 | 3♌47 | 4°32 | 5°15 | 25° 6 | 22°30 | 18° 2 | 17°11 | 6° 0 | 23°46 | 12°R35 | 12°53 | 11° 4 | 20°58 | T 28 |
| W29 | 2 29 46 | 5°44'51 | 15°49 | 6°10 | 5°19 | 25°35 | 22°41 | 18° 9 | 17° 8 | 5°59 | 23°46 | 12°35 | 12°49 | 11°10 | 20°55 | W29 |
| T 30 | 2 33 42 | 6°44'58 | 27°43 | 7°47 | 5°R20 | 26° 5 | 22°52 | 18°16 | 17° 6 | 5°59 | 23°46 | 12°34 | 12°46 | 11°17 | 20°52 | T 30 |
| F 31 | 2 37 39 | 7♏45'08 | 9♍34 | 9♏24 | 5♐20 | 26♒35 | 23♐ 4 | 18♎23 | 17♉ 3 | 5♓58 | 23♋46 | 12♉34 | 12♉43 | 11♍24 | 20♉49 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s 9 | 23n25 | 5n 9 | 5n18 | 1n37 | 22s57 | 4s45 | 20s23 | 4s 1 | 22s45 | 0n12 | 3s45 | 2n15 | 16n55 | 0s21 | 10s 0 | 0s54 | 23n16 | 1n53 | 15n49 | 16n10 | 12n56 | 15n34 | 2s53 |
| T 2 | 3 32 | 19 55 | 5 9 | 4 53 | 1 43 | 23 13 | 4 50 | 20 14 | 3 57 | 22 46 | 0 12 | 3 47 | 2 15 | 16 55 | 0 21 | 10 0 | 0 54 | 23 16 | 1 53 | 15 48 | 16 9 | 12 53 | 15 33 | 2 53 |
| F 3 | 3 55 | 15 39 | 4 56 | 4 25 | 1 48 | 23 29 | 4 55 | 20 5 | 3 53 | 22 47 | 0 11 | 3 50 | 2 15 | 16 54 | 0 21 | 10 1 | 0 54 | 23 16 | 1 54 | 15 46 | 16 8 | 12 50 | 15 32 | 2 53 |
| S 4 | 4 19 | 10 48 | 4 29 | 3 54 | 1 52 | 23 45 | 4 59 | 19 55 | 3 49 | 22 48 | 0 11 | 3 53 | 2 15 | 16 54 | 0 21 | 10 1 | 0 54 | 23 16 | 1 54 | 15 44 | 16 7 | 12 47 | 15 31 | 2 53 |
| S 5 | 4 42 | 5 32 | 3 51 | 3 20 | 1 55 | 24 0 | 5 4 | 19 46 | 3 45 | 22 48 | 0 11 | 3 56 | 2 15 | 16 53 | 0 21 | 10 1 | 0 54 | 23 16 | 1 54 | 15 42 | 16 6 | 12 45 | 15 30 | 2 54 |
| M 6 | 5 5 | 0 2 | 3 3 | 2 45 | 1 57 | 24 15 | 5 8 | 19 36 | 3 41 | 22 49 | 0 11 | 3 59 | 2 15 | 16 53 | 0 21 | 10 2 | 0 54 | 23 16 | 1 54 | 15 41 | 16 5 | 12 42 | 15 30 | 2 54 |
| T 7 | 5 28 | 5s32 | 2 5 | 2 8 | 1 58 | 24 29 | 5 12 | 19 26 | 3 37 | 22 50 | 0 11 | 4 1 | 2 15 | 16 52 | 0 21 | 10 2 | 0 54 | 23 16 | 1 54 | 15 40 | 16 4 | 12 39 | 15 29 | 2 54 |
| W 8 | 5 51 | 10 58 | 1 2 | 1 29 | 1 58 | 24 42 | 5 17 | 19 16 | 3 33 | 22 51 | 0 11 | 4 4 | 2 15 | 16 52 | 0 21 | 10 3 | 0 54 | 23 16 | 1 54 | 15 39 | 16 3 | 12 36 | 15 28 | 2 54 |
| T 9 | 6 14 | 16 3 | 0s 6 | 0 48 | 1 57 | 24 55 | 5 20 | 19 6 | 3 30 | 22 52 | 0 11 | 4 7 | 2 15 | 16 51 | 0 21 | 10 3 | 0 54 | 23 16 | 1 54 | 15 39 | 16 2 | 12 33 | 15 27 | 2 54 |
| F 10 | 6 37 | 20 32 | 1 14 | 0 7 | 1 56 | 25 7 | 5 24 | 18 56 | 3 26 | 22 53 | 0 10 | 4 10 | 2 15 | 16 51 | 0 21 | 10 4 | 0 54 | 23 16 | 1 54 | 15 39 | 16 1 | 12 30 | 15 26 | 2 55 |
| S 11 | 7 0 | 24 8 | 2 20 | 0s35 | 1 54 | 25 19 | 5 28 | 18 45 | 3 22 | 22 54 | 0 10 | 4 13 | 2 16 | 16 50 | 0 21 | 10 4 | 0 54 | 23 16 | 1 54 | 15 39 | 16 0 | 12 27 | 15 26 | 2 55 |
| S 12 | 7 23 | 26 34 | 3 20 | 1 18 | 1 51 | 25 30 | 5 31 | 18 35 | 3 18 | 22 55 | 0 10 | 4 15 | 2 16 | 16 49 | 0 21 | 10 4 | 0 54 | 23 16 | 1 55 | 15 40 | 15 59 | 12 24 | 15 25 | 2 55 |
| M13 | 7 45 | 27 33 | 4 10 | 2 2 | 1 48 | 25 41 | 5 34 | 18 24 | 3 15 | 22 56 | 0 10 | 4 18 | 2 16 | 16 49 | 0 21 | 10 5 | 0 54 | 23 16 | 1 55 | 15 40 | 15 58 | 12 21 | 15 24 | 2 55 |
| T 14 | 8 8 | 26 55 | 4 48 | 2 45 | 1 44 | 25 51 | 5 38 | 18 13 | 3 11 | 22 56 | 0 10 | 4 21 | 2 16 | 16 48 | 0 21 | 10 5 | 0 54 | 23 17 | 1 55 | 15 41 | 15 57 | 12 19 | 15 23 | 2 56 |
| W15 | 8 30 | 24 36 | 5 10 | 3 29 | 1 40 | 26 0 | 5 40 | 18 2 | 3 7 | 22 57 | 0 10 | 4 24 | 2 16 | 16 48 | 0 21 | 10 6 | 0 54 | 23 17 | 1 55 | 15 40 | 15 56 | 12 16 | 15 22 | 2 56 |
| T 16 | 8 52 | 20 44 | 5 14 | 4 13 | 1 36 | 26 8 | 5 43 | 17 51 | 3 4 | 22 58 | 0 10 | 4 27 | 2 16 | 16 47 | 0 21 | 10 6 | 0 54 | 23 17 | 1 55 | 15 40 | 15 55 | 12 13 | 15 21 | 2 56 |
| F 17 | 9 14 | 15 33 | 4 58 | 4 57 | 1 31 | 26 16 | 5 45 | 17 39 | 3 0 | 22 59 | 0 10 | 4 29 | 2 16 | 16 46 | 0 21 | 10 6 | 0 54 | 23 17 | 1 55 | 15 39 | 15 54 | 12 10 | 15 20 | 2 56 |
| S 18 | 9 36 | 9 24 | 4 22 | 5 41 | 1 26 | 26 24 | 5 47 | 17 28 | 2 57 | 23 0 | 0 9 | 4 32 | 2 16 | 16 46 | 0 21 | 10 7 | 0 54 | 23 17 | 1 55 | 15 39 | 15 53 | 12 7 | 15 19 | 2 56 |
| S 19 | 9 58 | 2 41 | 3 28 | 6 25 | 1 20 | 26 30 | 5 49 | 17 16 | 2 53 | 23 1 | 0 9 | 4 35 | 2 16 | 16 45 | 0 21 | 10 7 | 0 54 | 23 17 | 1 55 | 15 38 | 15 52 | 12 4 | 15 18 | 2 57 |
| M20 | 10 20 | 4n11 | 2 21 | 7 9 | 1 14 | 26 36 | 5 50 | 17 4 | 2 50 | 23 2 | 0 9 | 4 38 | 2 16 | 16 45 | 0 21 | 10 7 | 0 54 | 23 17 | 1 56 | 15 38 | 15 52 | 12 1 | 15 17 | 2 57 |
| T 21 | 10 42 | 10 46 | 1 4 | 7 52 | 1 9 | 26 42 | 5 52 | 16 52 | 2 46 | 23 2 | 0 9 | 4 40 | 2 16 | 16 44 | 0 21 | 10 8 | 0 54 | 23 17 | 1 56 | 15 37 | 15 51 | 11 58 | 15 17 | 2 57 |
| W22 | 11 3 | 16 40 | 0n15 | 8 35 | 1 3 | 26 46 | 5 52 | 16 40 | 2 43 | 23 3 | 0 9 | 4 43 | 2 16 | 16 43 | 0 21 | 10 8 | 0 54 | 23 17 | 1 56 | 15 37 | 15 50 | 11 55 | 15 16 | 2 57 |
| T 23 | 11 24 | 21 32 | 1 32 | 9 17 | 0 56 | 26 50 | 5 53 | 16 28 | 2 40 | 23 4 | 0 9 | 4 46 | 2 16 | 16 43 | 0 21 | 10 8 | 0 54 | 23 17 | 1 56 | 15 37 | 15 49 | 11 52 | 15 15 | 2 57 |
| F 24 | 11 45 | 25 3 | 2 41 | 9 59 | 0 50 | 26 53 | 5 53 | 16 16 | 2 36 | 23 5 | 0 9 | 4 48 | 2 16 | 16 42 | 0 21 | 10 9 | 0 54 | 23 17 | 1 56 | 15 38 | 15 48 | 11 49 | 15 14 | 2 57 |
| S 25 | 12 6 | 27 4 | 3 39 | 10 40 | 0 44 | 26 55 | 5 53 | 16 4 | 2 33 | 23 6 | 0 9 | 4 51 | 2 16 | 16 41 | 0 21 | 10 9 | 0 54 | 23 18 | 1 56 | 15 38 | 15 47 | 11 46 | 15 13 | 2 58 |
| S 26 | 12 27 | 27 34 | 4 24 | 11 21 | 0 37 | 26 56 | 5 52 | 15 51 | 2 30 | 23 6 | 0 8 | 4 54 | 2 16 | 16 41 | 0 21 | 10 9 | 0 54 | 23 18 | 1 56 | 15 38 | 15 46 | 11 43 | 15 12 | 2 58 |
| M27 | 12 47 | 26 37 | 4 56 | 12 1 | 0 30 | 26 57 | 5 51 | 15 38 | 2 27 | 23 7 | 0 8 | 4 56 | 2 16 | 16 40 | 0 21 | 10 9 | 0 54 | 23 18 | 1 56 | 15 38 | 15 45 | 11 40 | 15 11 | 2 58 |
| T 28 | 13 8 | 24 25 | 5 13 | 12 41 | 0 24 | 26 56 | 5 49 | 15 26 | 2 23 | 23 8 | 0 8 | 4 59 | 2 16 | 16 39 | 0 21 | 10 10 | 0 54 | 23 18 | 1 56 | 15 38 | 15 44 | 11 37 | 15 10 | 2 58 |
| W29 | 13 28 | 21 9 | 5 16 | 13 20 | 0 17 | 26 55 | 5 47 | 15 13 | 2 20 | 23 9 | 0 8 | 5 2 | 2 16 | 16 39 | 0 21 | 10 10 | 0 54 | 23 18 | 1 57 | 15 38 | 15 43 | 11 34 | 15 9 | 2 58 |
| T 30 | 13 48 | 17 4 | 5 6 | 13 58 | 0 10 | 26 53 | 5 45 | 15 0 | 2 17 | 23 9 | 0 8 | 5 4 | 2 16 | 16 38 | 0 21 | 10 10 | 0 54 | 23 18 | 1 57 | 15 38 | 15 42 | 11 32 | 15 8 | 2 58 |
| F 31 | 14s 7 | 12n21 | 4n43 | 14s35 | 0n 4 | 26s49 | 5s41 | 14s47 | 2s14 | 23s10 | 0n 8 | 5s 7 | 2n16 | 16n37 | 0s21 | 10s10 | 0s54 | 23n18 | 1n57 | 15n38 | 15n41 | 11n29 | 15n 7 | 2s59 |

Julian Day Number = 2337497.5, Delta T = 19.51 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'54, Lahiri = 19°29'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## NOVEMBER 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 41 36 | 8♏45'20 | 21♍26 | 11♏ 0 | 5°R17 | 27♒ 5 | 23♐16 | 18♎30 | 17°R 1 | 5°R58 | 23°R46 | 12°R33 | 12♉40 | 11♍30 | 20°R46 | S 1 |
| S 2 | 2 45 32 | 9°45'34 | 3♎23 | 12°36 | 5♐11 | 27°35 | 23°27 | 18°37 | 16♉58 | 5♓57 | 23♋45 | 12♉32 | 12°37 | 11°37 | 20♉42 | S 2 |
| M 3 | 2 49 29 | 10°45'50 | 15°28 | 14°12 | 5° 3 | 28° 6 | 23°39 | 18°44 | 16°56 | 5°57 | 23°45 | 12°32 | 12°33 | 11°44 | 20°39 | M 3 |
| T 4 | 2 53 25 | 11°46'07 | 27°43 | 15°47 | 4°53 | 28°37 | 23°51 | 18°51 | 16°53 | 5°56 | 23°45 | 12°32 | 12°30 | 11°51 | 20°36 | T 4 |
| W 5 | 2 57 22 | 12°46'27 | 10♏11 | 17°22 | 4°40 | 29° 8 | 24° 3 | 18°58 | 16°51 | 5°56 | 23°45 | 12°32 | 12°27 | 11°57 | 20°33 | W 5 |
| T 6 | 3 1 18 | 13°46'48 | 22°51 | 18°57 | 4°25 | 29°40 | 24°15 | 19° 5 | 16°48 | 5°55 | 23°44 | 12°32 | 12°24 | 12° 4 | 20°30 | T 6 |
| F 7 | 3 5 15 | 14°47'11 | 5♐45 | 20°31 | 4° 7 | 0♓12 | 24°27 | 19°12 | 16°46 | 5°55 | 23°44 | 12°32 | 12°21 | 12°11 | 20°26 | F 7 |
| S 8 | 3 9 11 | 15°47'36 | 18°53 | 22° 5 | 3°47 | 0°44 | 24°39 | 19°19 | 16°43 | 5°55 | 23°44 | 12°32 | 12°18 | 12°17 | 20°23 | S 8 |
| S 9 | 3 13 8 | 16°48'02 | 2♑14 | 23°38 | 3°25 | 1°16 | 24°51 | 19°26 | 16°41 | 5°54 | 23°43 | 12°31 | 12°14 | 12°24 | 20°20 | S 9 |
| M10 | 3 17 5 | 17°48'30 | 15°47 | 25°12 | 3° 1 | 1°48 | 25° 3 | 19°32 | 16°38 | 5°54 | 23°43 | 12°31 | 12°11 | 12°31 | 20°16 | M10 |
| T 11 | 3 21 1 | 18°48'59 | 29°33 | 26°45 | 2°35 | 2°21 | 25°16 | 19°39 | 16°36 | 5°54 | 23°42 | 12°30 | 12° 8 | 12°38 | 20°13 | T 11 |
| W12 | 3 24 58 | 19°49'29 | 13♒30 | 28°18 | 2° 7 | 2°54 | 25°28 | 19°46 | 16°33 | 5°54 | 23°42 | 12°D30 | 12° 5 | 12°44 | 20°10 | W12 |
| T 13 | 3 28 54 | 20°50'00 | 27°37 | 29°50 | 1°37 | 3°27 | 25°41 | 19°52 | 16°31 | 5°54 | 23°42 | 12°30 | 12° 2 | 12°51 | 20° 7 | T 13 |
| F 14 | 3 32 51 | 21°50'33 | 11♓53 | 1♐23 | 1° 5 | 4° 1 | 25°53 | 19°59 | 16°28 | 5°53 | 23°41 | 12°30 | 11°59 | 12°58 | 20° 3 | F 14 |
| S 15 | 3 36 47 | 22°51'07 | 26°14 | 2°55 | 0°32 | 4°34 | 26° 6 | 20° 6 | 16°26 | 5°53 | 23°41 | 12°31 | 11°55 | 13° 4 | 20° 0 | S 15 |
| S 16 | 3 40 44 | 23°51'42 | 10♈38 | 4°27 | 29♏58 | 5° 8 | 26°18 | 20°12 | 16°23 | 5°53 | 23°40 | 12°32 | 11°52 | 13°11 | 19°57 | S 16 |
| M17 | 3 44 40 | 24°52'18 | 25° 0 | 5°58 | 29°23 | 5°42 | 26°31 | 20°19 | 16°21 | 5°D53 | 23°39 | 12°33 | 11°49 | 13°18 | 19°53 | M17 |
| T 18 | 3 48 37 | 25°52'56 | 9♉16 | 7°30 | 28°47 | 6°16 | 26°44 | 20°25 | 16°19 | 5°53 | 23°39 | 12°R33 | 11°46 | 13°24 | 19°50 | T 18 |
| W19 | 3 52 34 | 26°53'35 | 23°22 | 9° 1 | 28°11 | 6°50 | 26°57 | 20°32 | 16°16 | 5°53 | 23°38 | 12°33 | 11°43 | 13°31 | 19°47 | W19 |
| T 20 | 3 56 30 | 27°54'16 | 7♊13 | 10°32 | 27°34 | 7°25 | 27° 9 | 20°38 | 16°14 | 5°53 | 23°38 | 12°32 | 11°39 | 13°38 | 19°44 | T 20 |
| F 21 | 4 0 27 | 28°54'57 | 20°45 | 12° 3 | 26°58 | 7°59 | 27°22 | 20°44 | 16°11 | 5°54 | 23°37 | 12°30 | 11°36 | 13°45 | 19°40 | F 21 |
| S 22 | 4 4 23 | 29°55'41 | 3♋58 | 13°33 | 26°22 | 8°34 | 27°35 | 20°50 | 16° 9 | 5°54 | 23°36 | 12°28 | 11°33 | 13°51 | 19°37 | S 22 |
| S 23 | 4 8 20 | 0♐56'26 | 16°50 | 15° 3 | 25°46 | 9° 9 | 27°48 | 20°57 | 16° 6 | 5°54 | 23°36 | 12°25 | 11°30 | 13°58 | 19°34 | S 23 |
| M24 | 4 12 16 | 1°57'12 | 29°23 | 16°33 | 25°11 | 9°44 | 28° 1 | 21° 3 | 16° 4 | 5°54 | 23°35 | 12°22 | 11°27 | 14° 5 | 19°31 | M24 |
| T 25 | 4 16 13 | 2°58'00 | 11♌39 | 18° 2 | 24°37 | 10°19 | 28°14 | 21° 9 | 16° 2 | 5°54 | 23°34 | 12°20 | 11°24 | 14°11 | 19°28 | T 25 |
| W26 | 4 20 10 | 3°58'49 | 23°43 | 19°32 | 24° 5 | 10°55 | 28°28 | 21°15 | 15°59 | 5°55 | 23°33 | 12°18 | 11°20 | 14°18 | 19°24 | W26 |
| T 27 | 4 24 6 | 4°59'40 | 5♍38 | 21° 0 | 23°34 | 11°30 | 28°41 | 21°21 | 15°57 | 5°55 | 23°33 | 12°D18 | 11°17 | 14°25 | 19°21 | T 27 |
| F 28 | 4 28 3 | 6° 0'32 | 17°29 | 22°28 | 23° 4 | 12° 6 | 28°54 | 21°27 | 15°55 | 5°55 | 23°32 | 12°18 | 11°14 | 14°31 | 19°18 | F 28 |
| S 29 | 4 31 59 | 7° 1'25 | 29°21 | 23°56 | 22°37 | 12°42 | 29° 7 | 21°33 | 15°52 | 5°56 | 23°31 | 12°20 | 11°11 | 14°38 | 19°15 | S 29 |
| S 30 | 4 35 56 | 8♐ 2'20 | 11♎19 | 25♐22 | 22♏11 | 13♓17 | 29♐21 | 21♎39 | 15♉50 | 5♓56 | 23♋30 | 12♉22 | 11♉ 8 | 14♍45 | 19♉12 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s27 | 7n11 | 4n 7 | 15s12 | 0s 3 | 26s45 | 5s38 | 14s34 | 2s11 | 23s11 | 0n 8 | 5s10 | 2n17 | 16n37 | 0s21 | 10s10 | 0s54 | 23n18 | 1n57 | 15n38 | 15n40 | 11n26 | 15n 6 | 2s59 |
| S 2 | 14 46 | 1 43 | 3 21 | 15 48 | 0 10 | 26 40 | 5 34 | 14 20 | 2 8 | 23 12 | 0 8 | 5 12 | 2 17 | 16 36 | 0 21 | 10 11 | 0 54 | 23 19 | 1 57 | 15 38 | 15 39 | 11 23 | 15 5 | 2 59 |
| M 3 | 15 5 | 3s53 | 2 25 | 16 23 | 0 16 | 26 34 | 5 29 | 14 7 | 2 5 | 23 12 | 0 8 | 5 15 | 2 17 | 16 35 | 0 21 | 10 11 | 0 54 | 23 19 | 1 57 | 15 38 | 15 38 | 11 20 | 15 4 | 2 59 |
| T 4 | 15 24 | 9 25 | 1 21 | 16 58 | 0 23 | 26 27 | 5 23 | 13 53 | 2 2 | 23 13 | 0 7 | 5 17 | 2 17 | 16 34 | 0 21 | 10 11 | 0 54 | 23 19 | 1 57 | 15 38 | 15 37 | 11 17 | 15 3 | 2 59 |
| W 5 | 15 42 | 14 41 | 0 13 | 17 31 | 0 30 | 26 18 | 5 17 | 13 40 | 2 0 | 23 14 | 0 7 | 5 20 | 2 17 | 16 34 | 0 21 | 10 11 | 0 54 | 23 19 | 1 57 | 15 38 | 15 36 | 11 14 | 15 2 | 2 59 |
| T 6 | 16 0 | 19 26 | 0s57 | 18 4 | 0 36 | 26 9 | 5 11 | 13 26 | 1 57 | 23 14 | 0 7 | 5 22 | 2 17 | 16 33 | 0 21 | 10 11 | 0 54 | 23 19 | 1 58 | 15 38 | 15 35 | 11 11 | 15 1 | 2 59 |
| F 7 | 16 18 | 23 22 | 2 5 | 18 36 | 0 42 | 25 58 | 5 3 | 13 12 | 1 54 | 23 15 | 0 7 | 5 25 | 2 17 | 16 32 | 0 21 | 10 11 | 0 54 | 23 19 | 1 58 | 15 38 | 15 34 | 11 8 | 15 0 | 3 0 |
| S 8 | 16 36 | 26 8 | 3 8 | 19 6 | 0 49 | 25 46 | 4 55 | 12 58 | 1 51 | 23 15 | 0 7 | 5 27 | 2 17 | 16 32 | 0 21 | 10 11 | 0 54 | 23 20 | 1 58 | 15 37 | 15 33 | 11 5 | 14 59 | 3 0 |
| S 9 | 16 53 | 27 30 | 4 2 | 19 36 | 0 55 | 25 34 | 4 47 | 12 44 | 1 49 | 23 16 | 0 7 | 5 30 | 2 17 | 16 31 | 0 21 | 10 11 | 0 54 | 23 20 | 1 58 | 15 37 | 15 32 | 11 2 | 14 58 | 3 0 |
| M10 | 17 10 | 27 14 | 4 43 | 20 5 | 1 1 | 25 20 | 4 37 | 12 30 | 1 46 | 23 17 | 0 7 | 5 32 | 2 17 | 16 30 | 0 21 | 10 12 | 0 54 | 23 20 | 1 58 | 15 37 | 15 31 | 10 59 | 14 57 | 3 0 |
| T 11 | 17 27 | 25 19 | 5 9 | 20 33 | 1 7 | 25 5 | 4 27 | 12 16 | 1 43 | 23 17 | 0 7 | 5 35 | 2 18 | 16 29 | 0 21 | 10 12 | 0 53 | 23 20 | 1 58 | 15 37 | 15 30 | 10 56 | 14 56 | 3 0 |
| W12 | 17 44 | 21 51 | 5 17 | 21 0 | 1 13 | 24 48 | 4 17 | 12 1 | 1 41 | 23 18 | 0 7 | 5 37 | 2 18 | 16 29 | 0 21 | 10 12 | 0 53 | 23 20 | 1 58 | 15 37 | 15 29 | 10 53 | 14 55 | 3 0 |
| T 13 | 18 0 | 17 6 | 5 6 | 21 26 | 1 19 | 24 31 | 4 5 | 11 47 | 1 38 | 23 18 | 0 6 | 5 39 | 2 18 | 16 28 | 0 21 | 10 12 | 0 53 | 23 21 | 1 58 | 15 37 | 15 28 | 10 50 | 14 54 | 3 0 |
| F 14 | 18 16 | 11 22 | 4 36 | 21 51 | 1 24 | 24 13 | 3 53 | 11 32 | 1 36 | 23 19 | 0 6 | 5 42 | 2 18 | 16 27 | 0 21 | 10 12 | 0 53 | 23 21 | 1 58 | 15 37 | 15 27 | 10 47 | 14 53 | 3 0 |
| S 15 | 18 31 | 5 0 | 3 49 | 22 15 | 1 30 | 23 54 | 3 41 | 11 18 | 1 33 | 23 19 | 0 6 | 5 44 | 2 18 | 16 27 | 0 21 | 10 12 | 0 53 | 23 21 | 1 59 | 15 37 | 15 26 | 10 44 | 14 52 | 3 0 |
| S 16 | 18 46 | 1n39 | 2 48 | 22 38 | 1 35 | 23 34 | 3 28 | 11 3 | 1 31 | 23 20 | 0 6 | 5 47 | 2 18 | 16 26 | 0 21 | 10 12 | 0 53 | 23 21 | 1 59 | 15 38 | 15 25 | 10 41 | 14 51 | 3 1 |
| M17 | 19 1 | 8 13 | 1 36 | 22 59 | 1 40 | 23 13 | 3 14 | 10 48 | 1 28 | 23 20 | 0 6 | 5 49 | 2 18 | 16 25 | 0 21 | 10 12 | 0 53 | 23 21 | 1 59 | 15 38 | 15 24 | 10 38 | 14 51 | 3 1 |
| T 18 | 19 16 | 14 19 | 0 18 | 23 20 | 1 45 | 22 51 | 3 0 | 10 33 | 1 26 | 23 21 | 0 6 | 5 51 | 2 18 | 16 25 | 0 21 | 10 12 | 0 53 | 23 22 | 1 59 | 15 38 | 15 23 | 10 35 | 14 50 | 3 1 |
| W19 | 19 30 | 19 36 | 0n59 | 23 39 | 1 50 | 22 29 | 2 46 | 10 18 | 1 23 | 23 21 | 0 6 | 5 53 | 2 19 | 16 24 | 0 21 | 10 12 | 0 53 | 23 22 | 1 59 | 15 38 | 15 22 | 10 32 | 14 49 | 3 1 |
| T 20 | 19 44 | 23 43 | 2 12 | 23 57 | 1 54 | 22 6 | 2 31 | 10 3 | 1 21 | 23 21 | 0 6 | 5 56 | 2 19 | 16 23 | 0 21 | 10 12 | 0 53 | 23 22 | 1 59 | 15 38 | 15 21 | 10 29 | 14 48 | 3 1 |
| F 21 | 19 57 | 26 25 | 3 16 | 24 14 | 1 58 | 21 43 | 2 16 | 9 48 | 1 19 | 23 22 | 0 6 | 5 58 | 2 19 | 16 23 | 0 21 | 10 12 | 0 53 | 23 22 | 1 59 | 15 37 | 15 20 | 10 26 | 14 47 | 3 1 |
| S 22 | 20 10 | 27 32 | 4 7 | 24 29 | 2 2 | 21 20 | 2 1 | 9 33 | 1 16 | 23 22 | 0 5 | 6 0 | 2 19 | 16 22 | 0 21 | 10 11 | 0 53 | 23 22 | 1 59 | 15 36 | 15 20 | 10 23 | 14 46 | 3 1 |
| S 23 | 20 23 | 27 7 | 4 44 | 24 43 | 2 6 | 20 56 | 1 45 | 9 18 | 1 14 | 23 22 | 0 5 | 6 2 | 2 19 | 16 21 | 0 21 | 10 11 | 0 53 | 23 23 | 1 59 | 15 35 | 15 19 | 10 19 | 14 45 | 3 1 |
| M24 | 20 35 | 25 19 | 5 7 | 24 56 | 2 9 | 20 33 | 1 30 | 9 2 | 1 12 | 23 23 | 0 5 | 6 4 | 2 19 | 16 20 | 0 21 | 10 11 | 0 53 | 23 23 | 2 0 | 15 35 | 15 18 | 10 16 | 14 44 | 3 1 |
| T 25 | 20 47 | 22 21 | 5 15 | 25 8 | 2 12 | 20 9 | 1 14 | 8 47 | 1 10 | 23 23 | 0 5 | 6 7 | 2 19 | 16 20 | 0 21 | 10 11 | 0 53 | 23 23 | 2 0 | 15 34 | 15 17 | 10 13 | 14 43 | 3 1 |
| W26 | 20 59 | 18 29 | 5 9 | 25 18 | 2 15 | 19 46 | 0 58 | 8 32 | 1 7 | 23 23 | 0 5 | 6 9 | 2 20 | 16 19 | 0 21 | 10 11 | 0 53 | 23 23 | 2 0 | 15 33 | 15 16 | 10 10 | 14 42 | 3 1 |
| T 27 | 21 10 | 13 57 | 4 49 | 25 27 | 2 17 | 19 23 | 0 43 | 8 16 | 1 5 | 23 24 | 0 5 | 6 11 | 2 20 | 16 18 | 0 21 | 10 11 | 0 53 | 23 24 | 2 0 | 15 33 | 15 15 | 10 7 | 14 41 | 3 1 |
| F 28 | 21 21 | 8 54 | 4 18 | 25 34 | 2 19 | 19 1 | 0 28 | 8 1 | 1 3 | 23 24 | 0 5 | 6 13 | 2 20 | 16 18 | 0 21 | 10 11 | 0 53 | 23 24 | 2 0 | 15 33 | 15 14 | 10 4 | 14 40 | 3 1 |
| S 29 | 21 31 | 3 33 | 3 35 | 25 41 | 2 20 | 18 39 | 0 12 | 7 45 | 1 1 | 23 24 | 0 5 | 6 15 | 2 20 | 16 17 | 0 21 | 10 11 | 0 53 | 23 24 | 2 0 | 15 34 | 15 13 | 10 1 | 14 40 | 3 1 |
| S 30 | 21s41 | 2s 0 | 2n43 | 25s45 | 2s21 | 18s18 | 0n 2 | 7s29 | 0s59 | 23s24 | 0n 5 | 6s17 | 2n20 | 16n17 | 0s21 | 10s10 | 0s53 | 23n24 | 2n 0 | 15n34 | 15n12 | 9n58 | 14n39 | 3s 1 |

Julian Day Number = 2337528.5, Delta T = 19.47 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°22'58, Lahiri = 19°29'58Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1687
# geocentric

## DECEMBER 1687 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 39 52 | 9♐ 3'16 | 23♎28 | 26♐48 | 21°R47 | 13♓53 | 29♐34 | 21♎44 | 15°R48 | 5♓57 | 23°R29 | 12♉23 | 11♉ 5 | 14♍52 | 19°R 9 | M 1 |
| T 2 | 4 43 49 | 10° 4'13 | 5♏50 | 28°13 | 21♏26 | 14°30 | 29°47 | 21°50 | 15♉46 | 5°57 | 23♋28 | 12°24 | 11° 1 | 14°58 | 19♉ 6 | T 2 |
| W 3 | 4 47 45 | 11° 5'12 | 18°30 | 29°37 | 21° 7 | 15° 6 | 0♑ 1 | 21°56 | 15°43 | 5°58 | 23°27 | 12°R24 | 10°58 | 15° 5 | 19° 3 | W 3 |
| T 4 | 4 51 42 | 12° 6'12 | 1♐28 | 1♑ 0 | 20°50 | 15°42 | 0°14 | 22° 1 | 15°41 | 5°58 | 23°27 | 12°23 | 10°55 | 15°12 | 19° 0 | T 4 |
| F 5 | 4 55 39 | 13° 7'12 | 14°45 | 2°21 | 20°36 | 16°19 | 0°28 | 22° 7 | 15°39 | 5°59 | 23°26 | 12°20 | 10°52 | 15°18 | 18°57 | F 5 |
| S 6 | 4 59 35 | 14° 8'14 | 28°19 | 3°40 | 20°24 | 16°55 | 0°41 | 22°12 | 15°37 | 6° 0 | 23°25 | 12°16 | 10°49 | 15°25 | 18°54 | S 6 |
| S 7 | 5 3 32 | 15° 9'16 | 12♑ 8 | 4°57 | 20°15 | 17°32 | 0°55 | 22°18 | 15°35 | 6° 0 | 23°24 | 12°10 | 10°45 | 15°32 | 18°51 | S 7 |
| M 8 | 5 7 28 | 16°10'19 | 26° 8 | 6°11 | 20° 8 | 18° 9 | 1° 9 | 22°23 | 15°33 | 6° 1 | 23°23 | 12° 5 | 10°42 | 15°38 | 18°48 | M 8 |
| T 9 | 5 11 25 | 17°11'23 | 10♒16 | 7°23 | 20° 3 | 18°46 | 1°22 | 22°28 | 15°31 | 6° 2 | 23°22 | 12° 0 | 10°39 | 15°45 | 18°46 | T 9 |
| W10 | 5 15 21 | 18°12'27 | 24°27 | 8°31 | 20°D 1 | 19°23 | 1°36 | 22°33 | 15°29 | 6° 2 | 23°21 | 11°56 | 10°36 | 15°52 | 18°43 | W10 |
| T 11 | 5 19 18 | 19°13'32 | 8♓39 | 9°36 | 20° 2 | 20° 0 | 1°50 | 22°38 | 15°27 | 6° 3 | 23°20 | 11°54 | 10°33 | 15°59 | 18°40 | T 11 |
| F 12 | 5 23 14 | 20°14'36 | 22°49 | 10°36 | 20° 5 | 20°38 | 2° 3 | 22°43 | 15°25 | 6° 4 | 23°19 | 11°D53 | 10°30 | 16° 5 | 18°37 | F 12 |
| S 13 | 5 27 11 | 21°15'41 | 6♈54 | 11°31 | 20°10 | 21°15 | 2°17 | 22°48 | 15°23 | 6° 5 | 23°17 | 11°54 | 10°26 | 16°12 | 18°35 | S 13 |
| S 14 | 5 31 8 | 22°16'47 | 20°55 | 12°20 | 20°18 | 21°52 | 2°31 | 22°53 | 15°21 | 6° 6 | 23°16 | 11°56 | 10°23 | 16°19 | 18°32 | S 14 |
| M15 | 5 35 4 | 23°17'53 | 4♉50 | 13° 3 | 20°27 | 22°30 | 2°45 | 22°58 | 15°19 | 6° 7 | 23°15 | 11°R57 | 10°20 | 16°25 | 18°30 | M15 |
| T 16 | 5 39 1 | 24°18'59 | 18°37 | 13°38 | 20°39 | 23° 7 | 2°58 | 23° 3 | 15°18 | 6° 8 | 23°14 | 11°57 | 10°17 | 16°32 | 18°27 | T 16 |
| W17 | 5 42 57 | 25°20'05 | 2♊15 | 14° 4 | 20°54 | 23°45 | 3°12 | 23° 7 | 15°16 | 6° 9 | 23°13 | 11°55 | 10°14 | 16°39 | 18°25 | W17 |
| T 18 | 5 46 54 | 26°21'12 | 15°43 | 14°22 | 21°10 | 24°23 | 3°26 | 23°12 | 15°14 | 6°10 | 23°12 | 11°51 | 10°11 | 16°45 | 18°22 | T 18 |
| F 19 | 5 50 50 | 27°22'19 | 28°58 | 14°R29 | 21°28 | 25° 1 | 3°40 | 23°17 | 15°12 | 6°11 | 23°11 | 11°45 | 10° 7 | 16°52 | 18°20 | F 19 |
| S 20 | 5 54 47 | 28°23'27 | 11♋58 | 14°25 | 21°49 | 25°38 | 3°54 | 23°21 | 15°11 | 6°12 | 23°10 | 11°36 | 10° 4 | 16°59 | 18°18 | S 20 |
| S 21 | 5 58 43 | 29°24'35 | 24°43 | 14°10 | 22°11 | 26°16 | 4° 7 | 23°25 | 15° 9 | 6°13 | 23° 8 | 11°27 | 10° 1 | 17° 6 | 18°15 | S 21 |
| M22 | 6 2 40 | 0♑25'43 | 7♌12 | 13°43 | 22°35 | 26°54 | 4°21 | 23°30 | 15° 8 | 6°14 | 23° 7 | 11°18 | 9°58 | 17°12 | 18°13 | M22 |
| T 23 | 6 6 37 | 1°26'52 | 19°27 | 13° 4 | 23° 1 | 27°32 | 4°35 | 23°34 | 15° 6 | 6°15 | 23° 6 | 11°10 | 9°55 | 17°19 | 18°11 | T 23 |
| W24 | 6 10 33 | 2°28'01 | 1♍30 | 12°14 | 23°29 | 28°10 | 4°49 | 23°38 | 15° 5 | 6°17 | 23° 5 | 11° 3 | 9°51 | 17°26 | 18° 9 | W24 |
| T 25 | 6 14 30 | 3°29'11 | 13°25 | 11°13 | 23°58 | 28°49 | 5° 3 | 23°42 | 15° 3 | 6°18 | 23° 4 | 10°58 | 9°48 | 17°32 | 18° 7 | T 25 |
| F 26 | 6 18 26 | 4°30'21 | 25°15 | 10° 4 | 24°29 | 29°27 | 5°17 | 23°46 | 15° 2 | 6°19 | 23° 2 | 10°56 | 9°45 | 17°39 | 18° 5 | F 26 |
| S 27 | 6 22 23 | 5°31'31 | 7♎ 6 | 8°49 | 25° 2 | 0♈ 5 | 5°31 | 23°49 | 15° 0 | 6°20 | 23° 1 | 10°D55 | 9°42 | 17°46 | 18° 3 | S 27 |
| S 28 | 6 26 19 | 6°32'42 | 19° 2 | 7°29 | 25°36 | 0°43 | 5°45 | 23°53 | 14°59 | 6°22 | 23° 0 | 10°56 | 9°39 | 17°52 | 18° 1 | S 28 |
| M29 | 6 30 16 | 7°33'53 | 1♏10 | 6° 7 | 26°11 | 1°22 | 5°58 | 23°57 | 14°58 | 6°23 | 22°59 | 10°57 | 9°36 | 17°59 | 17°59 | M29 |
| T 30 | 6 34 12 | 8°35'05 | 13°34 | 4°47 | 26°48 | 2° 0 | 6°12 | 24° 0 | 14°57 | 6°24 | 22°57 | 10°R57 | 9°32 | 18° 6 | 17°57 | T 30 |
| W31 | 6 38 9 | 9♑36'16 | 26♏18 | 3♑30 | 27♏26 | 2♈39 | 6♑26 | 24♎ 4 | 14♉55 | 6♓26 | 22♋56 | 10♉56 | 9♉29 | 18♍12 | 17♉55 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s51 | 7s33 | 1n42 | 25s48 | 2s22 | 17s58 | 0n17 | 7s13 | 0s57 | 23s24 | 0n 5 | 6s19 | 2n20 | 16n16 | 0s21 | 10s10 | 0s53 | 23n25 | 2n 0 | 15n35 | 15n11 | 9n55 | 14n38 | 3s 1 |
| T 2 | 22 0 | 12 56 | 0 36 | 25 50 | 2 22 | 17 39 | 0 31 | 6 58 | 0 55 | 23 24 | 0 4 | 6 21 | 2 21 | 16 15 | 0 21 | 10 10 | 0 53 | 23 25 | 2 0 | 15 35 | 15 10 | 9 52 | 14 37 | 3 1 |
| W 3 | 22 9 | 17 54 | 0s33 | 25 50 | 2 21 | 17 21 | 0 45 | 6 42 | 0 53 | 23 25 | 0 4 | 6 23 | 2 21 | 16 15 | 0 21 | 10 10 | 0 53 | 23 25 | 2 0 | 15 35 | 15 9 | 9 49 | 14 36 | 3 1 |
| T 4 | 22 17 | 22 10 | 1 42 | 25 49 | 2 20 | 17 3 | 0 59 | 6 26 | 0 51 | 23 25 | 0 4 | 6 25 | 2 21 | 16 14 | 0 21 | 10 10 | 0 53 | 23 25 | 2 1 | 15 35 | 15 8 | 9 46 | 14 35 | 3 1 |
| F 5 | 22 25 | 25 23 | 2 48 | 25 46 | 2 18 | 16 47 | 1 12 | 6 10 | 0 49 | 23 25 | 0 4 | 6 27 | 2 21 | 16 13 | 0 21 | 10 9 | 0 53 | 23 26 | 2 1 | 15 34 | 15 7 | 9 43 | 14 35 | 3 1 |
| S 6 | 22 32 | 27 13 | 3 45 | 25 42 | 2 16 | 16 32 | 1 24 | 5 54 | 0 47 | 23 25 | 0 4 | 6 28 | 2 21 | 16 13 | 0 21 | 10 9 | 0 53 | 23 26 | 2 1 | 15 33 | 15 6 | 9 40 | 14 34 | 3 2 |
| S 7 | 22 39 | 27 24 | 4 30 | 25 36 | 2 13 | 16 17 | 1 36 | 5 38 | 0 45 | 23 25 | 0 4 | 6 30 | 2 22 | 16 12 | 0 21 | 10 9 | 0 53 | 23 26 | 2 1 | 15 31 | 15 5 | 9 37 | 14 33 | 3 2 |
| M 8 | 22 46 | 25 51 | 4 59 | 25 29 | 2 9 | 16 4 | 1 48 | 5 22 | 0 43 | 23 25 | 0 4 | 6 32 | 2 22 | 16 12 | 0 21 | 10 8 | 0 53 | 23 26 | 2 1 | 15 29 | 15 4 | 9 34 | 14 32 | 3 2 |
| T 9 | 22 52 | 22 41 | 5 11 | 25 20 | 2 4 | 15 52 | 1 59 | 5 5 | 0 42 | 23 25 | 0 4 | 6 34 | 2 22 | 16 11 | 0 21 | 10 8 | 0 53 | 23 27 | 2 1 | 15 28 | 15 3 | 9 30 | 14 31 | 3 2 |
| W10 | 22 57 | 18 9 | 5 4 | 25 10 | 1 58 | 15 42 | 2 10 | 4 49 | 0 40 | 23 25 | 0 4 | 6 35 | 2 22 | 16 11 | 0 21 | 10 8 | 0 53 | 23 27 | 2 1 | 15 27 | 15 2 | 9 27 | 14 31 | 3 2 |
| T 11 | 23 3 | 12 38 | 4 38 | 24 59 | 1 52 | 15 32 | 2 20 | 4 33 | 0 38 | 23 25 | 0 4 | 6 37 | 2 22 | 16 10 | 0 21 | 10 8 | 0 53 | 23 27 | 2 1 | 15 26 | 15 1 | 9 24 | 14 30 | 3 2 |
| F 12 | 23 7 | 6 27 | 3 55 | 24 47 | 1 44 | 15 23 | 2 30 | 4 17 | 0 36 | 23 24 | 0 3 | 6 39 | 2 23 | 16 9 | 0 21 | 10 7 | 0 53 | 23 28 | 2 1 | 15 26 | 15 0 | 9 21 | 14 29 | 3 2 |
| S 13 | 23 12 | 0n 1 | 2 59 | 24 34 | 1 35 | 15 16 | 2 39 | 4 0 | 0 35 | 23 24 | 0 3 | 6 40 | 2 23 | 16 9 | 0 21 | 10 7 | 0 53 | 23 28 | 2 1 | 15 26 | 14 59 | 9 18 | 14 29 | 3 1 |
| S 14 | 23 15 | 6 27 | 1 52 | 24 19 | 1 25 | 15 9 | 2 48 | 3 44 | 0 33 | 23 24 | 0 3 | 6 42 | 2 23 | 16 8 | 0 21 | 10 7 | 0 53 | 23 28 | 2 2 | 15 26 | 14 58 | 9 15 | 14 28 | 3 1 |
| M15 | 23 19 | 12 33 | 0 39 | 24 4 | 1 14 | 15 4 | 2 56 | 3 28 | 0 31 | 23 24 | 0 3 | 6 44 | 2 23 | 16 8 | 0 21 | 10 6 | 0 53 | 23 28 | 2 2 | 15 27 | 14 57 | 9 12 | 14 27 | 3 1 |
| T 16 | 23 22 | 17 58 | 0n36 | 23 49 | 1 2 | 15 0 | 3 4 | 3 11 | 0 29 | 23 24 | 0 3 | 6 45 | 2 23 | 16 7 | 0 21 | 10 6 | 0 53 | 23 29 | 2 2 | 15 27 | 14 56 | 9 9 | 14 27 | 3 1 |
| W17 | 23 24 | 22 24 | 1 48 | 23 32 | 0 48 | 14 56 | 3 11 | 2 55 | 0 28 | 23 24 | 0 3 | 6 47 | 2 24 | 16 7 | 0 21 | 10 5 | 0 53 | 23 29 | 2 2 | 15 26 | 14 55 | 9 6 | 14 26 | 3 1 |
| T 18 | 23 26 | 25 34 | 2 52 | 23 16 | 0 34 | 14 54 | 3 18 | 2 38 | 0 26 | 23 23 | 0 3 | 6 48 | 2 24 | 16 6 | 0 21 | 10 5 | 0 53 | 23 29 | 2 2 | 15 25 | 14 54 | 9 3 | 14 25 | 3 1 |
| F 19 | 23 27 | 27 15 | 3 46 | 22 59 | 0 17 | 14 52 | 3 25 | 2 22 | 0 25 | 23 23 | 0 3 | 6 50 | 2 24 | 16 6 | 0 20 | 10 5 | 0 53 | 23 30 | 2 2 | 15 23 | 14 53 | 9 0 | 14 25 | 3 1 |
| S 20 | 23 28 | 27 23 | 4 27 | 22 42 | 0 0 | 14 52 | 3 31 | 2 5 | 0 23 | 23 23 | 0 3 | 6 51 | 2 24 | 16 5 | 0 20 | 10 4 | 0 53 | 23 30 | 2 2 | 15 21 | 14 52 | 8 56 | 14 24 | 3 1 |
| S 21 | 23 29 | 26 2 | 4 54 | 22 26 | 0n18 | 14 52 | 3 36 | 1 49 | 0 21 | 23 22 | 0 3 | 6 52 | 2 25 | 16 5 | 0 20 | 10 4 | 0 53 | 23 30 | 2 2 | 15 18 | 14 51 | 8 53 | 14 23 | 3 1 |
| M22 | 23 29 | 23 26 | 5 6 | 22 10 | 0 37 | 14 53 | 3 41 | 1 32 | 0 20 | 23 22 | 0 2 | 6 54 | 2 25 | 16 5 | 0 20 | 10 3 | 0 53 | 23 30 | 2 2 | 15 15 | 14 50 | 8 50 | 14 23 | 3 1 |
| T 23 | 23 28 | 19 48 | 5 3 | 21 54 | 0 57 | 14 55 | 3 46 | 1 16 | 0 18 | 23 22 | 0 2 | 6 55 | 2 25 | 16 4 | 0 20 | 10 3 | 0 53 | 23 31 | 2 2 | 15 12 | 14 49 | 8 47 | 14 22 | 3 1 |
| W24 | 23 28 | 15 26 | 4 48 | 21 39 | 1 16 | 14 57 | 3 51 | 0 59 | 0 17 | 23 21 | 0 2 | 6 56 | 2 25 | 16 4 | 0 20 | 10 2 | 0 53 | 23 31 | 2 2 | 15 10 | 14 48 | 8 44 | 14 22 | 3 1 |
| T 25 | 23 26 | 10 31 | 4 19 | 21 25 | 1 36 | 15 0 | 3 55 | 0 43 | 0 15 | 23 21 | 0 2 | 6 58 | 2 25 | 16 3 | 0 20 | 10 2 | 0 53 | 23 31 | 2 3 | 15 9 | 14 47 | 8 41 | 14 21 | 3 1 |
| F 26 | 23 24 | 5 15 | 3 40 | 21 12 | 1 55 | 15 4 | 3 58 | 0 26 | 0 14 | 23 20 | 0 2 | 6 59 | 2 26 | 16 3 | 0 20 | 10 1 | 0 53 | 23 32 | 2 3 | 15 8 | 14 46 | 8 38 | 14 21 | 3 1 |
| S 27 | 23 22 | 0s12 | 2 51 | 20 59 | 2 12 | 15 9 | 4 2 | 0 9 | 0 13 | 23 20 | 0 2 | 7 0 | 2 26 | 16 3 | 0 20 | 10 1 | 0 53 | 23 32 | 2 3 | 15 8 | 14 45 | 8 35 | 14 20 | 3 1 |
| S 28 | 23 19 | 5 42 | 1 55 | 20 48 | 2 29 | 15 14 | 4 5 | 0n 7 | 0 11 | 23 19 | 0 2 | 7 1 | 2 26 | 16 2 | 0 20 | 10 0 | 0 53 | 23 32 | 2 3 | 15 8 | 14 44 | 8 31 | 14 20 | 3 1 |
| M29 | 23 16 | 11 5 | 0 52 | 20 38 | 2 43 | 15 19 | 4 7 | 0 24 | 0 10 | 23 19 | 0 2 | 7 2 | 2 26 | 16 2 | 0 20 | 10 0 | 0 53 | 23 32 | 2 3 | 15 8 | 14 43 | 8 28 | 14 19 | 3 1 |
| T 30 | 23 12 | 16 10 | 0s14 | 20 29 | 2 55 | 15 25 | 4 10 | 0 40 | 0 8 | 23 18 | 0 2 | 7 3 | 2 27 | 16 2 | 0 20 | 9 59 | 0 53 | 23 33 | 2 3 | 15 8 | 14 42 | 8 25 | 14 19 | 3 1 |
| W31 | 23s 8 | 20s41 | 1s21 | 20s22 | 3n 4 | 15s32 | 4n12 | 0n57 | 0s 7 | 23s18 | 0n 2 | 7s 4 | 2n27 | 16n 1 | 0s20 | 9s59 | 0s53 | 23n33 | 2n 3 | 15n 8 | 14n41 | 8n22 | 14n19 | 3s 1 |

Julian Day Number = 2337558.5, Delta T = 19.43 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'02, Lahiri = 19°30'03Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## JANUARY 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 42 6 | 10♑37'28 | 9♐26 | 2°R19 | 28♏ 5 | 3♈17 | 6♑40 | 24♎ 7 | 14°R54 | 6♓27 | 22°R55 | 10°R52 | 9♉26 | 18♍19 | 17°R54 | T 1 |
| F 2 | 6 46 2 | 11°38'40 | 22°59 | 1♑16 | 28°46 | 3°56 | 6°54 | 24°11 | 14♉53 | 6°29 | 22♋53 | 10♉46 | 9°23 | 18°26 | 17♉52 | F 2 |
| S 3 | 6 49 59 | 12°39'52 | 6♑55 | 0°21 | 29°27 | 4°34 | 7° 8 | 24°14 | 14°52 | 6°30 | 22°52 | 10°38 | 9°20 | 18°33 | 17°51 | S 3 |
| S 4 | 6 53 55 | 13°41'03 | 21°11 | 29♐36 | 0♐10 | 5°13 | 7°22 | 24°17 | 14°51 | 6°32 | 22°51 | 10°27 | 9°17 | 18°39 | 17°49 | S 4 |
| M 5 | 6 57 52 | 14°42'15 | 5♒41 | 29° 1 | 0°54 | 5°52 | 7°36 | 24°20 | 14°50 | 6°33 | 22°50 | 10°17 | 9°13 | 18°46 | 17°48 | M 5 |
| T 6 | 7 1 48 | 15°43'26 | 20°18 | 28°36 | 1°39 | 6°31 | 7°50 | 24°23 | 14°49 | 6°35 | 22°48 | 10° 6 | 9°10 | 18°53 | 17°46 | T 6 |
| W 7 | 7 5 45 | 16°44'36 | 4♓55 | 28°20 | 2°25 | 7° 9 | 8° 3 | 24°25 | 14°49 | 6°37 | 22°47 | 9°58 | 9° 7 | 18°59 | 17°45 | W 7 |
| T 8 | 7 9 42 | 17°45'46 | 19°25 | 28°D14 | 3°12 | 7°48 | 8°17 | 24°28 | 14°48 | 6°38 | 22°46 | 9°53 | 9° 4 | 19° 6 | 17°44 | T 8 |
| F 9 | 7 13 38 | 18°46'55 | 3♈43 | 28°17 | 3°59 | 8°27 | 8°31 | 24°31 | 14°47 | 6°40 | 22°44 | 9°50 | 9° 1 | 19°13 | 17°43 | F 9 |
| S 10 | 7 17 35 | 19°48'03 | 17°49 | 28°27 | 4°48 | 9° 6 | 8°45 | 24°33 | 14°46 | 6°42 | 22°43 | 9°D49 | 8°57 | 19°19 | 17°42 | S 10 |
| S 11 | 7 21 31 | 20°49'11 | 1♉40 | 28°45 | 5°37 | 9°45 | 8°59 | 24°36 | 14°46 | 6°43 | 22°42 | 9°49 | 8°54 | 19°26 | 17°41 | S 11 |
| M12 | 7 25 28 | 21°50'18 | 15°18 | 29°10 | 6°28 | 10°24 | 9°12 | 24°38 | 14°45 | 6°45 | 22°40 | 9°R49 | 8°51 | 19°33 | 17°40 | M12 |
| T 13 | 7 29 24 | 22°51'24 | 28°43 | 29°41 | 7°19 | 11° 3 | 9°26 | 24°40 | 14°45 | 6°47 | 22°39 | 9°47 | 8°48 | 19°39 | 17°39 | T 13 |
| W14 | 7 33 21 | 23°52'29 | 11♊57 | 0♑18 | 8°10 | 11°42 | 9°40 | 24°42 | 14°44 | 6°49 | 22°38 | 9°44 | 8°45 | 19°46 | 17°38 | W14 |
| T 15 | 7 37 17 | 24°53'33 | 25° 0 | 0°59 | 9° 3 | 12°21 | 9°53 | 24°44 | 14°44 | 6°50 | 22°36 | 9°37 | 8°42 | 19°53 | 17°37 | T 15 |
| F 16 | 7 41 14 | 25°54'37 | 7♋53 | 1°46 | 9°56 | 13° 0 | 10° 7 | 24°46 | 14°43 | 6°52 | 22°35 | 9°27 | 8°38 | 20° 0 | 17°37 | F 16 |
| S 17 | 7 45 11 | 26°55'40 | 20°35 | 2°36 | 10°50 | 13°39 | 10°21 | 24°48 | 14°43 | 6°54 | 22°34 | 9°14 | 8°35 | 20° 6 | 17°36 | S 17 |
| S 18 | 7 49 7 | 27°56'42 | 3♌ 6 | 3°30 | 11°44 | 14°18 | 10°34 | 24°50 | 14°43 | 6°56 | 22°32 | 9° 1 | 8°32 | 20°13 | 17°35 | S 18 |
| M19 | 7 53 4 | 28°57'44 | 15°25 | 4°27 | 12°39 | 14°57 | 10°48 | 24°51 | 14°43 | 6°58 | 22°31 | 8°46 | 8°29 | 20°20 | 17°35 | M19 |
| T 20 | 7 57 0 | 29°58'44 | 27°34 | 5°28 | 13°35 | 15°36 | 11° 1 | 24°53 | 14°43 | 7° 0 | 22°30 | 8°33 | 8°26 | 20°26 | 17°34 | T 20 |
| W21 | 8 0 57 | 0♒59'44 | 9♍34 | 6°31 | 14°31 | 16°15 | 11°15 | 24°54 | 14°42 | 7° 1 | 22°28 | 8°22 | 8°23 | 20°33 | 17°34 | W21 |
| T 22 | 8 4 53 | 2° 0'44 | 21°26 | 7°37 | 15°28 | 16°55 | 11°29 | 24°55 | 14°42 | 7° 3 | 22°27 | 8°13 | 8°19 | 20°40 | 17°34 | T 22 |
| F 23 | 8 8 50 | 3° 1'42 | 3♎15 | 8°44 | 16°25 | 17°34 | 11°42 | 24°57 | 14°D42 | 7° 5 | 22°26 | 8° 7 | 8°16 | 20°46 | 17°34 | F 23 |
| S 24 | 8 12 46 | 4° 2'40 | 15° 4 | 9°54 | 17°23 | 18°13 | 11°55 | 24°58 | 14°42 | 7° 7 | 22°25 | 8° 4 | 8°13 | 20°53 | 17°33 | S 24 |
| S 25 | 8 16 43 | 5° 3'37 | 26°58 | 11° 6 | 18°22 | 18°52 | 12° 9 | 24°59 | 14°43 | 7° 9 | 22°23 | 8° 3 | 8°10 | 21° 0 | 17°33 | S 25 |
| M26 | 8 20 40 | 6° 4'33 | 9♏ 3 | 12°20 | 19°20 | 19°31 | 12°22 | 25° 0 | 14°43 | 7°11 | 22°22 | 8° 3 | 8° 7 | 21° 6 | 17°D33 | M26 |
| T 27 | 8 24 36 | 7° 5'29 | 21°23 | 13°35 | 20°20 | 20°11 | 12°35 | 25° 0 | 14°43 | 7°13 | 22°21 | 8° 2 | 8° 3 | 21°13 | 17°33 | T 27 |
| W28 | 8 28 33 | 8° 6'24 | 4♐ 5 | 14°52 | 21°19 | 20°50 | 12°49 | 25° 1 | 14°43 | 7°15 | 22°19 | 8° 1 | 8° 0 | 21°20 | 17°33 | W28 |
| T 29 | 8 32 29 | 9° 7'18 | 17°13 | 16°10 | 22°19 | 21°29 | 13° 2 | 25° 2 | 14°44 | 7°17 | 22°18 | 7°57 | 7°57 | 21°27 | 17°34 | T 29 |
| F 30 | 8 36 26 | 10° 8'12 | 0♑49 | 17°30 | 23°20 | 22° 8 | 13°15 | 25° 2 | 14°44 | 7°20 | 22°17 | 7°50 | 7°54 | 21°33 | 17°34 | F 30 |
| S 31 | 8 40 22 | 11♒ 9'04 | 14♑54 | 18♑51 | 24♐21 | 22♈48 | 13♑28 | 25♎ 2 | 14♉44 | 7♓22 | 22♋16 | 7♉40 | 7♉51 | 21♍40 | 17♉34 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 3 | 24s19 | 2s26 | 20s17 | 3n11 | 15s39 | 4n13 | 1n13 | 0s 6 | 23s17 | 0n 2 | 7s 5 | 2n27 | 16n 1 | 0s20 | 9s58 | 0s52 | 23n33 | 2n 3 | 15n 7 | 14n40 | 8n19 | 14n18 | 3s 1 |
| F 2 | 22 58 | 26 42 | 3 25 | 20 13 | 3 15 | 15 46 | 4 15 | 1 30 | 0 4 | 23 17 | 0 1 | 7 6 | 2 27 | 16 1 | 0 20 | 9 58 | 0 52 | 23 34 | 2 3 | 15 5 | 14 39 | 8 16 | 14 18 | 3 1 |
| S 3 | 22 53 | 27 30 | 4 13 | 20 12 | 3 17 | 15 54 | 4 16 | 1 46 | 0 3 | 23 16 | 0 1 | 7 7 | 2 28 | 16 0 | 0 20 | 9 57 | 0 52 | 23 34 | 2 3 | 15 2 | 14 38 | 8 13 | 14 17 | 3 1 |
| S 4 | 22 47 | 26 31 | 4 46 | 20 12 | 3 17 | 16 2 | 4 17 | 2 3 | 0 2 | 23 15 | 0 1 | 7 8 | 2 28 | 16 0 | 0 20 | 9 57 | 0 52 | 23 34 | 2 3 | 14 59 | 14 37 | 8 9 | 14 17 | 3 0 |
| M 5 | 22 40 | 23 45 | 5 2 | 20 13 | 3 15 | 16 10 | 4 18 | 2 20 | 0 0 | 23 15 | 0 1 | 7 9 | 2 28 | 16 0 | 0 20 | 9 56 | 0 52 | 23 35 | 2 3 | 14 56 | 14 36 | 8 6 | 14 17 | 3 0 |
| T 6 | 22 33 | 19 27 | 4 58 | 20 17 | 3 12 | 16 18 | 4 18 | 2 36 | 0n 1 | 23 14 | 0 1 | 7 10 | 2 28 | 16 0 | 0 20 | 9 55 | 0 52 | 23 35 | 2 4 | 14 52 | 14 35 | 8 3 | 14 16 | 3 0 |
| W 7 | 22 26 | 13 59 | 4 35 | 20 21 | 3 7 | 16 27 | 4 19 | 2 53 | 0 2 | 23 13 | 0 1 | 7 11 | 2 29 | 15 59 | 0 20 | 9 55 | 0 52 | 23 35 | 2 4 | 14 50 | 14 34 | 8 0 | 14 16 | 3 0 |
| T 8 | 22 18 | 7 47 | 3 54 | 20 28 | 3 1 | 16 36 | 4 19 | 3 9 | 0 3 | 23 12 | 0 1 | 7 11 | 2 29 | 15 59 | 0 20 | 9 54 | 0 52 | 23 35 | 2 4 | 14 48 | 14 33 | 7 57 | 14 16 | 3 0 |
| F 9 | 22 10 | 1 15 | 2 59 | 20 35 | 2 54 | 16 45 | 4 18 | 3 25 | 0 4 | 23 12 | 0 1 | 7 12 | 2 29 | 15 59 | 0 20 | 9 54 | 0 52 | 23 36 | 2 4 | 14 47 | 14 32 | 7 54 | 14 16 | 3 0 |
| S 10 | 22 1 | 5n15 | 1 54 | 20 43 | 2 46 | 16 54 | 4 18 | 3 42 | 0 6 | 23 11 | 0 1 | 7 13 | 2 29 | 15 59 | 0 20 | 9 53 | 0 52 | 23 36 | 2 4 | 14 47 | 14 31 | 7 50 | 14 15 | 3 0 |
| S 11 | 21 52 | 11 24 | 0 43 | 20 51 | 2 37 | 17 3 | 4 17 | 3 58 | 0 7 | 23 10 | 0 1 | 7 13 | 2 30 | 15 59 | 0 20 | 9 52 | 0 52 | 23 36 | 2 4 | 14 47 | 14 30 | 7 47 | 14 15 | 3 0 |
| M12 | 21 42 | 16 55 | 0n29 | 21 1 | 2 28 | 17 13 | 4 17 | 4 15 | 0 8 | 23 9 | 0 0 | 7 14 | 2 30 | 15 59 | 0 20 | 9 52 | 0 52 | 23 37 | 2 4 | 14 47 | 14 29 | 7 44 | 14 15 | 3 0 |
| T 13 | 21 32 | 21 31 | 1 38 | 21 10 | 2 19 | 17 22 | 4 16 | 4 31 | 0 9 | 23 8 | 0 0 | 7 15 | 2 30 | 15 58 | 0 20 | 9 51 | 0 52 | 23 37 | 2 4 | 14 46 | 14 27 | 7 41 | 14 15 | 3 0 |
| W14 | 21 22 | 24 56 | 2 41 | 21 20 | 2 9 | 17 31 | 4 14 | 4 47 | 0 10 | 23 7 | 0 0 | 7 15 | 2 31 | 15 58 | 0 20 | 9 50 | 0 52 | 23 37 | 2 4 | 14 45 | 14 26 | 7 38 | 14 15 | 3 0 |
| T 15 | 21 11 | 26 58 | 3 35 | 21 29 | 1 59 | 17 41 | 4 13 | 5 4 | 0 11 | 23 7 | 0 0 | 7 16 | 2 31 | 15 58 | 0 20 | 9 50 | 0 52 | 23 37 | 2 4 | 14 43 | 14 25 | 7 35 | 14 15 | 3 0 |
| F 16 | 21 0 | 27 31 | 4 16 | 21 39 | 1 49 | 17 50 | 4 11 | 5 20 | 0 12 | 23 6 | 0 0 | 7 16 | 2 31 | 15 58 | 0 20 | 9 49 | 0 52 | 23 38 | 2 4 | 14 40 | 14 24 | 7 31 | 14 15 | 2 59 |
| S 17 | 20 49 | 26 35 | 4 44 | 21 48 | 1 39 | 17 59 | 4 10 | 5 36 | 0 13 | 23 5 | 0s 0 | 7 16 | 2 31 | 15 58 | 0 20 | 9 48 | 0 52 | 23 38 | 2 4 | 14 36 | 14 23 | 7 28 | 14 14 | 2 59 |
| S 18 | 20 37 | 24 20 | 4 58 | 21 57 | 1 29 | 18 8 | 4 8 | 5 52 | 0 14 | 23 4 | 0 0 | 7 17 | 2 32 | 15 58 | 0 20 | 9 48 | 0 52 | 23 38 | 2 4 | 14 32 | 14 22 | 7 25 | 14 14 | 2 59 |
| M19 | 20 24 | 20 59 | 4 58 | 22 5 | 1 19 | 18 17 | 4 6 | 6 8 | 0 16 | 23 3 | 0 0 | 7 17 | 2 32 | 15 58 | 0 20 | 9 47 | 0 52 | 23 39 | 2 4 | 14 27 | 14 21 | 7 22 | 14 14 | 2 59 |
| T 20 | 20 11 | 16 46 | 4 44 | 22 13 | 1 10 | 18 26 | 4 4 | 6 24 | 0 17 | 23 2 | 0 0 | 7 17 | 2 32 | 15 58 | 0 20 | 9 46 | 0 52 | 23 39 | 2 5 | 14 23 | 14 20 | 7 19 | 14 14 | 2 59 |
| W21 | 19 58 | 11 58 | 4 17 | 22 20 | 1 0 | 18 35 | 4 1 | 6 40 | 0 18 | 23 1 | 0 0 | 7 18 | 2 32 | 15 58 | 0 20 | 9 45 | 0 52 | 23 39 | 2 5 | 14 19 | 14 19 | 7 16 | 14 14 | 2 59 |
| T 22 | 19 45 | 6 46 | 3 40 | 22 26 | 0 50 | 18 44 | 3 59 | 6 56 | 0 19 | 23 0 | 0 0 | 7 18 | 2 33 | 15 58 | 0 20 | 9 45 | 0 52 | 23 39 | 2 5 | 14 16 | 14 18 | 7 12 | 14 14 | 2 59 |
| F 23 | 19 31 | 1 21 | 2 53 | 22 31 | 0 41 | 18 52 | 3 56 | 7 12 | 0 20 | 22 59 | 0 1 | 7 18 | 2 33 | 15 58 | 0 20 | 9 44 | 0 52 | 23 40 | 2 5 | 14 14 | 14 17 | 7 9 | 14 14 | 2 59 |
| S 24 | 19 17 | 4s 8 | 1 58 | 22 35 | 0 31 | 19 0 | 3 54 | 7 28 | 0 21 | 22 57 | 0 1 | 7 18 | 2 33 | 15 58 | 0 20 | 9 43 | 0 52 | 23 40 | 2 5 | 14 13 | 14 16 | 7 6 | 14 14 | 2 59 |
| S 25 | 19 2 | 9 30 | 0 58 | 22 39 | 0 22 | 19 8 | 3 51 | 7 44 | 0 21 | 22 56 | 0 1 | 7 18 | 2 33 | 15 58 | 0 20 | 9 42 | 0 52 | 23 40 | 2 5 | 14 13 | 14 15 | 7 3 | 14 15 | 2 59 |
| M26 | 18 47 | 14 37 | 0s 5 | 22 41 | 0 13 | 19 16 | 3 48 | 8 0 | 0 22 | 22 55 | 0 1 | 7 18 | 2 34 | 15 58 | 0 20 | 9 42 | 0 52 | 23 40 | 2 5 | 14 13 | 14 14 | 7 0 | 14 15 | 2 58 |
| T 27 | 18 32 | 19 16 | 1 10 | 22 43 | 0 4 | 19 24 | 3 45 | 8 16 | 0 23 | 22 54 | 0 1 | 7 18 | 2 34 | 15 58 | 0 20 | 9 41 | 0 52 | 23 41 | 2 5 | 14 13 | 14 13 | 6 56 | 14 15 | 2 58 |
| W28 | 18 16 | 23 11 | 2 13 | 22 43 | 0s 4 | 19 31 | 3 42 | 8 31 | 0 24 | 22 53 | 0 1 | 7 18 | 2 34 | 15 58 | 0 20 | 9 40 | 0 52 | 23 41 | 2 5 | 14 12 | 14 12 | 6 53 | 14 15 | 2 58 |
| T 29 | 18 0 | 26 2 | 3 11 | 22 42 | 0 12 | 19 38 | 3 38 | 8 47 | 0 25 | 22 52 | 0 1 | 7 18 | 2 35 | 15 58 | 0 19 | 9 39 | 0 52 | 23 41 | 2 5 | 14 11 | 14 11 | 6 50 | 14 15 | 2 58 |
| F 30 | 17 44 | 27 29 | 4 0 | 22 40 | 0 21 | 19 44 | 3 35 | 9 2 | 0 26 | 22 51 | 0 1 | 7 18 | 2 35 | 15 59 | 0 19 | 9 39 | 0 52 | 23 42 | 2 5 | 14 9 | 14 10 | 6 47 | 14 15 | 2 58 |
| S 31 | 17s28 | 27s14 | 4s37 | 22s37 | 0s28 | 19s50 | 3n31 | 9n18 | 0n27 | 22s49 | 0s 1 | 7s18 | 2n35 | 15n59 | 0s19 | 9s38 | 0s52 | 23n42 | 2n 5 | 14n 6 | 14n 9 | 6n44 | 14n15 | 2s58 |

Julian Day Number = 2337589.5, Delta T = 19.38 sec
Ecliptic obliquity = 23°28'54, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'06, Lahiri = 19°30'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## FEBRUARY 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 44 19 | 12♒ 9'55 | 29♑24 | 20♑13 | 25♐22 | 23♈27 | 13♑41 | 25♎ 3 | 14♉45 | 7♓24 | 22°R14 | 7°R29 | 7♉48 | 21♍47 | 17♉35 | S 1 |
| M 2 | 8 48 15 | 13°10'46 | 14♒15 | 21°36 | 26°24 | 24° 6 | 13°54 | 25° 3 | 14°45 | 7°26 | 22♋13 | 7♉17 | 7°44 | 21°53 | 17°35 | M 2 |
| T 3 | 8 52 12 | 14°11'34 | 29°16 | 23° 0 | 27°26 | 24°46 | 14° 7 | 25°R 3 | 14°46 | 7°28 | 22°12 | 7° 5 | 7°41 | 22° 0 | 17°36 | T 3 |
| W 4 | 8 56 9 | 15°12'22 | 14♓19 | 24°25 | 28°28 | 25°25 | 14°20 | 25° 3 | 14°47 | 7°30 | 22°11 | 6°56 | 7°38 | 22° 7 | 17°36 | W 4 |
| T 5 | 9 0 5 | 16°13'08 | 29°13 | 25°52 | 29°31 | 26° 4 | 14°33 | 25° 2 | 14°47 | 7°32 | 22°10 | 6°49 | 7°35 | 22°13 | 17°37 | T 5 |
| F 6 | 9 4 2 | 17°13'52 | 13♈51 | 27°19 | 0♑34 | 26°43 | 14°46 | 25° 2 | 14°48 | 7°34 | 22° 8 | 6°45 | 7°32 | 22°20 | 17°38 | F 6 |
| S 7 | 9 7 58 | 18°14'35 | 28° 9 | 28°47 | 1°37 | 27°23 | 14°59 | 25° 2 | 14°49 | 7°37 | 22° 7 | 6°43 | 7°29 | 22°27 | 17°39 | S 7 |
| S 8 | 9 11 55 | 19°15'16 | 12♉ 6 | 0♒16 | 2°41 | 28° 2 | 15°12 | 25° 1 | 14°50 | 7°39 | 22° 6 | 6°43 | 7°25 | 22°33 | 17°39 | S 8 |
| M 9 | 9 15 51 | 20°15'55 | 25°42 | 1°46 | 3°44 | 28°42 | 15°24 | 25° 0 | 14°50 | 7°41 | 22° 5 | 6°43 | 7°22 | 22°40 | 17°40 | M 9 |
| T 10 | 9 19 48 | 21°16'33 | 8♊59 | 3°17 | 4°48 | 29°21 | 15°37 | 25° 0 | 14°51 | 7°43 | 22° 4 | 6°42 | 7°19 | 22°47 | 17°41 | T 10 |
| W11 | 9 23 44 | 22°17'09 | 21°59 | 4°49 | 5°53 | 0♉ 0 | 15°49 | 24°59 | 14°52 | 7°45 | 22° 3 | 6°38 | 7°16 | 22°53 | 17°42 | W11 |
| T 12 | 9 27 41 | 23°17'43 | 4♋46 | 6°22 | 6°57 | 0°40 | 16° 2 | 24°58 | 14°53 | 7°48 | 22° 2 | 6°32 | 7°13 | 23° 0 | 17°44 | T 12 |
| F 13 | 9 31 38 | 24°18'15 | 17°20 | 7°55 | 8° 2 | 1°19 | 16°14 | 24°57 | 14°55 | 7°50 | 22° 0 | 6°23 | 7° 9 | 23° 7 | 17°45 | F 13 |
| S 14 | 9 35 34 | 25°18'46 | 29°45 | 9°30 | 9° 7 | 1°58 | 16°27 | 24°56 | 14°56 | 7°52 | 21°59 | 6°12 | 7° 6 | 23°13 | 17°46 | S 14 |
| S 15 | 9 39 31 | 26°19'15 | 12♌ 0 | 11° 5 | 10°12 | 2°38 | 16°39 | 24°55 | 14°57 | 7°54 | 21°58 | 5°59 | 7° 3 | 23°20 | 17°47 | S 15 |
| M16 | 9 43 27 | 27°19'42 | 24° 8 | 12°42 | 11°18 | 3°17 | 16°51 | 24°53 | 14°58 | 7°56 | 21°57 | 5°45 | 7° 0 | 23°27 | 17°49 | M16 |
| T 17 | 9 47 24 | 28°20'08 | 6♍ 8 | 14°19 | 12°24 | 3°56 | 17° 3 | 24°52 | 14°59 | 7°59 | 21°56 | 5°33 | 6°57 | 23°34 | 17°50 | T 17 |
| W18 | 9 51 20 | 29°20'31 | 18° 3 | 15°57 | 13°30 | 4°35 | 17°15 | 24°50 | 15° 1 | 8° 1 | 21°55 | 5°22 | 6°54 | 23°40 | 17°52 | W18 |
| T 19 | 9 55 17 | 0♓20'54 | 29°53 | 17°37 | 14°36 | 5°15 | 17°27 | 24°49 | 15° 2 | 8° 3 | 21°54 | 5°14 | 6°50 | 23°47 | 17°53 | T 19 |
| F 20 | 9 59 13 | 1°21'14 | 11♎41 | 19°17 | 15°42 | 5°54 | 17°39 | 24°47 | 15° 4 | 8° 5 | 21°53 | 5° 8 | 6°47 | 23°54 | 17°55 | F 20 |
| S 21 | 10 3 10 | 2°21'34 | 23°30 | 20°58 | 16°49 | 6°33 | 17°51 | 24°45 | 15° 5 | 8° 8 | 21°52 | 5° 5 | 6°44 | 24° 0 | 17°57 | S 21 |
| S 22 | 10 7 7 | 3°21'51 | 5♏24 | 22°40 | 17°55 | 7°13 | 18° 3 | 24°43 | 15° 7 | 8°10 | 21°51 | 5°D 5 | 6°41 | 24° 7 | 17°59 | S 22 |
| M23 | 10 11 3 | 4°22'08 | 17°28 | 24°24 | 19° 2 | 7°52 | 18°15 | 24°41 | 15° 8 | 8°12 | 21°50 | 5° 5 | 6°38 | 24°14 | 18° 1 | M23 |
| T 24 | 10 15 0 | 5°22'22 | 29°46 | 26° 8 | 20° 9 | 8°31 | 18°26 | 24°39 | 15°10 | 8°15 | 21°49 | 5°R 6 | 6°35 | 24°20 | 18° 2 | T 24 |
| W25 | 10 18 56 | 6°22'36 | 12♐23 | 27°53 | 21°17 | 9°11 | 18°38 | 24°37 | 15°12 | 8°17 | 21°49 | 5° 6 | 6°31 | 24°27 | 18° 4 | W25 |
| T 26 | 10 22 53 | 7°22'47 | 25°25 | 29°39 | 22°24 | 9°50 | 18°49 | 24°34 | 15°13 | 8°19 | 21°48 | 5° 4 | 6°28 | 24°34 | 18° 6 | T 26 |
| F 27 | 10 26 49 | 8°22'58 | 8♑55 | 1♓27 | 23°32 | 10°29 | 19° 1 | 24°32 | 15°15 | 8°21 | 21°47 | 5° 0 | 6°25 | 24°40 | 18° 9 | F 27 |
| S 28 | 10 30 46 | 9°23'06 | 22°55 | 3°15 | 24°39 | 11° 8 | 19°12 | 24°30 | 15°17 | 8°24 | 21°46 | 4°54 | 6°22 | 24°47 | 18°11 | S 28 |
| S 29 | 10 34 42 | 10♓23'14 | 7♒24 | 5♓ 5 | 25♑47 | 11♉48 | 19♑23 | 24♎27 | 15♉19 | 8♓26 | 21♋45 | 4♉46 | 6♉19 | 24♍54 | 18♉13 | S 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s11 | 25s 9 | 4s57 | 22s33 | 0s36 | 19s56 | 3n28 | 9n33 | 0n28 | 22s48 | 0s 1 | 7s18 | 2n35 | 15n59 | 0s19 | 9s37 | 0s52 | 23n42 | 2n 5 | 14n 2 | 14n 8 | 6n40 | 14n16 | 2s58 |
| M 2 | 16 54 | 21 20 | 4 58 | 22 28 | 0 43 | 20 2 | 3 24 | 9 48 | 0 29 | 22 47 | 0 2 | 7 18 | 2 36 | 15 59 | 0 19 | 9 36 | 0 52 | 23 42 | 2 5 | 13 58 | 14 7 | 6 37 | 14 16 | 2 58 |
| T 3 | 16 36 | 16 5 | 4 38 | 22 21 | 0 50 | 20 7 | 3 21 | 10 4 | 0 29 | 22 46 | 0 2 | 7 17 | 2 36 | 15 59 | 0 19 | 9 35 | 0 52 | 23 43 | 2 5 | 13 54 | 14 6 | 6 34 | 14 16 | 2 58 |
| W 4 | 16 18 | 9 52 | 3 59 | 22 13 | 0 57 | 20 12 | 3 17 | 10 19 | 0 30 | 22 44 | 0 2 | 7 17 | 2 36 | 15 59 | 0 19 | 9 35 | 0 52 | 23 43 | 2 5 | 13 51 | 14 5 | 6 31 | 14 16 | 2 58 |
| T 5 | 16 0 | 3 8 | 3 4 | 22 3 | 1 4 | 20 16 | 3 13 | 10 34 | 0 31 | 22 43 | 0 2 | 7 17 | 2 36 | 16 0 | 0 19 | 9 34 | 0 52 | 23 43 | 2 5 | 13 49 | 14 4 | 6 27 | 14 17 | 2 57 |
| F 6 | 15 42 | 3n40 | 1 58 | 21 53 | 1 10 | 20 20 | 3 9 | 10 49 | 0 32 | 22 42 | 0 2 | 7 16 | 2 37 | 16 0 | 0 19 | 9 33 | 0 52 | 23 43 | 2 5 | 13 47 | 14 3 | 6 24 | 14 17 | 2 57 |
| S 7 | 15 23 | 10 8 | 0 45 | 21 41 | 1 16 | 20 23 | 3 5 | 11 4 | 0 33 | 22 40 | 0 2 | 7 16 | 2 37 | 16 0 | 0 19 | 9 32 | 0 52 | 23 43 | 2 5 | 13 47 | 14 2 | 6 21 | 14 17 | 2 57 |
| S 8 | 15 4 | 15 57 | 0n28 | 21 28 | 1 22 | 20 26 | 3 1 | 11 19 | 0 33 | 22 39 | 0 2 | 7 16 | 2 37 | 16 0 | 0 19 | 9 31 | 0 52 | 23 44 | 2 5 | 13 47 | 14 1 | 6 18 | 14 18 | 2 57 |
| M 9 | 14 45 | 20 49 | 1 39 | 21 13 | 1 27 | 20 29 | 2 57 | 11 34 | 0 34 | 22 38 | 0 2 | 7 15 | 2 38 | 16 1 | 0 19 | 9 31 | 0 52 | 23 44 | 2 6 | 13 47 | 14 0 | 6 15 | 14 18 | 2 57 |
| T 10 | 14 26 | 24 30 | 2 42 | 20 57 | 1 32 | 20 31 | 2 53 | 11 48 | 0 35 | 22 36 | 0 2 | 7 15 | 2 38 | 16 1 | 0 19 | 9 30 | 0 52 | 23 44 | 2 6 | 13 47 | 13 59 | 6 11 | 14 18 | 2 57 |
| W11 | 14 6 | 26 49 | 3 35 | 20 40 | 1 37 | 20 33 | 2 49 | 12 3 | 0 36 | 22 35 | 0 3 | 7 14 | 2 38 | 16 1 | 0 19 | 9 29 | 0 52 | 23 44 | 2 6 | 13 45 | 13 58 | 6 8 | 14 19 | 2 57 |
| T 12 | 13 47 | 27 40 | 4 17 | 20 21 | 1 42 | 20 34 | 2 44 | 12 18 | 0 36 | 22 34 | 0 3 | 7 14 | 2 38 | 16 2 | 0 19 | 9 28 | 0 52 | 23 45 | 2 6 | 13 43 | 13 57 | 6 5 | 14 19 | 2 57 |
| F 13 | 13 27 | 27 4 | 4 45 | 20 1 | 1 46 | 20 35 | 2 40 | 12 32 | 0 37 | 22 32 | 0 3 | 7 13 | 2 39 | 16 2 | 0 19 | 9 27 | 0 52 | 23 45 | 2 6 | 13 40 | 13 56 | 6 2 | 14 20 | 2 57 |
| S 14 | 13 6 | 25 7 | 4 59 | 19 40 | 1 50 | 20 35 | 2 36 | 12 46 | 0 38 | 22 31 | 0 3 | 7 12 | 2 39 | 16 2 | 0 19 | 9 26 | 0 52 | 23 45 | 2 6 | 13 37 | 13 55 | 5 58 | 14 20 | 2 57 |
| S 15 | 12 46 | 22 1 | 5 0 | 19 17 | 1 53 | 20 35 | 2 31 | 13 1 | 0 39 | 22 29 | 0 3 | 7 12 | 2 39 | 16 3 | 0 19 | 9 26 | 0 52 | 23 45 | 2 6 | 13 32 | 13 54 | 5 55 | 14 21 | 2 56 |
| M16 | 12 25 | 18 0 | 4 46 | 18 53 | 1 56 | 20 34 | 2 27 | 13 15 | 0 39 | 22 28 | 0 3 | 7 11 | 2 39 | 16 3 | 0 19 | 9 25 | 0 52 | 23 45 | 2 6 | 13 28 | 13 52 | 5 52 | 14 21 | 2 56 |
| T 17 | 12 4 | 13 18 | 4 20 | 18 28 | 1 59 | 20 32 | 2 22 | 13 29 | 0 40 | 22 27 | 0 3 | 7 10 | 2 40 | 16 4 | 0 19 | 9 24 | 0 52 | 23 46 | 2 6 | 13 24 | 13 51 | 5 49 | 14 22 | 2 56 |
| W18 | 11 43 | 8 9 | 3 43 | 18 1 | 2 2 | 20 31 | 2 18 | 13 43 | 0 41 | 22 25 | 0 3 | 7 9 | 2 40 | 16 4 | 0 19 | 9 23 | 0 52 | 23 46 | 2 6 | 13 20 | 13 50 | 5 45 | 14 22 | 2 56 |
| T 19 | 11 22 | 2 44 | 2 56 | 17 33 | 2 4 | 20 28 | 2 13 | 13 57 | 0 41 | 22 24 | 0 3 | 7 8 | 2 40 | 16 4 | 0 19 | 9 22 | 0 52 | 23 46 | 2 6 | 13 17 | 13 49 | 5 42 | 14 23 | 2 56 |
| F 20 | 11 1 | 2s46 | 2 1 | 17 3 | 2 5 | 20 25 | 2 9 | 14 10 | 0 42 | 22 22 | 0 3 | 7 8 | 2 40 | 16 5 | 0 19 | 9 21 | 0 52 | 23 46 | 2 6 | 13 15 | 13 48 | 5 39 | 14 23 | 2 56 |
| S 21 | 10 39 | 8 11 | 1 1 | 16 32 | 2 7 | 20 22 | 2 4 | 14 24 | 0 43 | 22 21 | 0 4 | 7 7 | 2 41 | 16 5 | 0 19 | 9 21 | 0 52 | 23 46 | 2 6 | 13 14 | 13 47 | 5 36 | 14 24 | 2 56 |
| S 22 | 10 17 | 13 22 | 0s 2 | 15 59 | 2 7 | 20 18 | 2 0 | 14 37 | 0 43 | 22 19 | 0 4 | 7 6 | 2 41 | 16 6 | 0 19 | 9 20 | 0 52 | 23 47 | 2 6 | 13 14 | 13 46 | 5 32 | 14 24 | 2 56 |
| M23 | 9 56 | 18 8 | 1 6 | 15 25 | 2 8 | 20 14 | 1 55 | 14 51 | 0 44 | 22 18 | 0 4 | 7 5 | 2 41 | 16 6 | 0 19 | 9 19 | 0 52 | 23 47 | 2 6 | 13 14 | 13 45 | 5 29 | 14 25 | 2 56 |
| T 24 | 9 33 | 22 13 | 2 8 | 14 50 | 2 8 | 20 9 | 1 51 | 15 4 | 0 44 | 22 16 | 0 4 | 7 4 | 2 41 | 16 7 | 0 19 | 9 18 | 0 52 | 23 47 | 2 6 | 13 15 | 13 44 | 5 26 | 14 25 | 2 56 |
| W25 | 9 11 | 25 24 | 3 6 | 14 13 | 2 7 | 20 3 | 1 46 | 15 17 | 0 45 | 22 15 | 0 4 | 7 3 | 2 41 | 16 7 | 0 19 | 9 17 | 0 52 | 23 47 | 2 6 | 13 15 | 13 43 | 5 23 | 14 26 | 2 55 |
| T 26 | 8 49 | 27 20 | 3 56 | 13 35 | 2 7 | 19 57 | 1 42 | 15 30 | 0 46 | 22 14 | 0 4 | 7 2 | 2 42 | 16 8 | 0 19 | 9 16 | 0 52 | 23 47 | 2 6 | 13 14 | 13 42 | 5 19 | 14 27 | 2 55 |
| F 27 | 8 26 | 27 45 | 4 35 | 12 56 | 2 5 | 19 50 | 1 37 | 15 43 | 0 46 | 22 12 | 0 4 | 7 1 | 2 42 | 16 8 | 0 19 | 9 16 | 0 52 | 23 48 | 2 6 | 13 13 | 13 41 | 5 16 | 14 27 | 2 55 |
| S 28 | 8 4 | 26 27 | 4 59 | 12 15 | 2 3 | 19 43 | 1 32 | 15 56 | 0 47 | 22 11 | 0 4 | 7 0 | 2 42 | 16 9 | 0 19 | 9 15 | 0 52 | 23 48 | 2 6 | 13 11 | 13 40 | 5 13 | 14 28 | 2 55 |
| S 29 | 7s41 | 23s22 | 5s 6 | 11s32 | 2s 1 | 19s35 | 1n28 | 16n 9 | 0n47 | 22s 9 | 0s 4 | 6s58 | 2n42 | 16n 9 | 0s19 | 9s14 | 0s52 | 23n48 | 2n 6 | 13n 8 | 13n39 | 5n10 | 14n29 | 2s55 |

Julian Day Number = 2337620.5, Delta T = 19.34 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'11, Lahiri = 19°30'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## MARCH 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 38 39 | 11♓23'19 | 22♒17 | 6♓55 | 26♑55 | 12♉27 | 19♑34 | 24°R24 | 15♉21 | 8♓28 | 21°R44 | 4°R38 | 6♉15 | 25♍ 0 | 18♉15 | M 1 |
| T 2 | 10 42 36 | 12°23'22 | 7♓27 | 8°47 | 28° 3 | 13° 6 | 19°45 | 24♎22 | 15°23 | 8°31 | 21♋44 | 4♉30 | 6°12 | 25° 7 | 18°17 | T 2 |
| W 3 | 10 46 32 | 13°23'24 | 22°43 | 10°40 | 29°11 | 13°45 | 19°56 | 24°19 | 15°25 | 8°33 | 21°43 | 4°23 | 6° 9 | 25°14 | 18°20 | W 3 |
| T 4 | 10 50 29 | 14°23'23 | 7♈55 | 12°33 | 0♒20 | 14°25 | 20° 7 | 24°16 | 15°27 | 8°35 | 21°42 | 4°18 | 6° 6 | 25°20 | 18°22 | T 4 |
| F 5 | 10 54 25 | 15°23'21 | 22°52 | 14°28 | 1°28 | 15° 4 | 20°18 | 24°13 | 15°29 | 8°37 | 21°41 | 4°15 | 6° 3 | 25°27 | 18°25 | F 5 |
| S 6 | 10 58 22 | 16°23'16 | 7♉28 | 16°24 | 2°37 | 15°43 | 20°28 | 24°10 | 15°31 | 8°40 | 21°41 | 4°D15 | 6° 0 | 25°34 | 18°27 | S 6 |
| S 7 | 11 2 18 | 17°23'09 | 21°39 | 18°20 | 3°46 | 16°22 | 20°39 | 24° 7 | 15°33 | 8°42 | 21°40 | 4°16 | 5°56 | 25°40 | 18°30 | S 7 |
| M 8 | 11 6 15 | 18°23'00 | 5♊25 | 20°18 | 4°54 | 17° 1 | 20°49 | 24° 3 | 15°35 | 8°44 | 21°39 | 4°17 | 5°53 | 25°47 | 18°33 | M 8 |
| T 9 | 11 10 11 | 19°22'49 | 18°45 | 22°16 | 6° 3 | 17°41 | 21° 0 | 24° 0 | 15°37 | 8°46 | 21°39 | 4°R18 | 5°50 | 25°54 | 18°35 | T 9 |
| W10 | 11 14 8 | 20°22'36 | 1♋44 | 24°15 | 7°12 | 18°20 | 21°10 | 23°57 | 15°40 | 8°49 | 21°38 | 4°17 | 5°47 | 26° 0 | 18°38 | W10 |
| T 11 | 11 18 5 | 21°22'20 | 14°25 | 26°14 | 8°21 | 18°59 | 21°20 | 23°53 | 15°42 | 8°51 | 21°38 | 4°14 | 5°44 | 26° 7 | 18°41 | T 11 |
| F 12 | 11 22 1 | 22°22'02 | 26°50 | 28°14 | 9°31 | 19°38 | 21°30 | 23°50 | 15°44 | 8°53 | 21°37 | 4°10 | 5°41 | 26°14 | 18°44 | F 12 |
| S 13 | 11 25 58 | 23°21'41 | 9♌ 3 | 0♈13 | 10°40 | 20°17 | 21°40 | 23°46 | 15°47 | 8°55 | 21°37 | 4° 4 | 5°37 | 26°20 | 18°47 | S 13 |
| S 14 | 11 29 54 | 24°21'19 | 21° 8 | 2°13 | 11°49 | 20°56 | 21°50 | 23°42 | 15°49 | 8°58 | 21°36 | 3°56 | 5°34 | 26°27 | 18°50 | S 14 |
| M15 | 11 33 51 | 25°20'54 | 3♍ 6 | 4°12 | 12°59 | 21°35 | 21°59 | 23°39 | 15°52 | 9° 0 | 21°36 | 3°49 | 5°31 | 26°34 | 18°53 | M15 |
| T 16 | 11 37 47 | 26°20'27 | 14°59 | 6°11 | 14° 8 | 22°15 | 22° 9 | 23°35 | 15°54 | 9° 2 | 21°35 | 3°42 | 5°28 | 26°41 | 18°56 | T 16 |
| W17 | 11 41 44 | 27°19'58 | 26°49 | 8° 8 | 15°18 | 22°54 | 22°18 | 23°31 | 15°57 | 9° 4 | 21°35 | 3°36 | 5°25 | 26°47 | 18°59 | W17 |
| T 18 | 11 45 40 | 28°19'26 | 8♎38 | 10° 5 | 16°28 | 23°33 | 22°28 | 23°27 | 15°59 | 9° 6 | 21°34 | 3°31 | 5°21 | 26°54 | 19° 2 | T 18 |
| F 19 | 11 49 37 | 29°18'53 | 20°28 | 11°59 | 17°38 | 24°12 | 22°37 | 23°23 | 16° 2 | 9° 8 | 21°34 | 3°29 | 5°18 | 27° 1 | 19° 5 | F 19 |
| S 20 | 11 53 34 | 0♈18'18 | 2♏22 | 13°52 | 18°48 | 24°51 | 22°46 | 23°19 | 16° 5 | 9°11 | 21°33 | 3°D28 | 5°15 | 27° 7 | 19° 8 | S 20 |
| S 21 | 11 57 30 | 1°17'41 | 14°21 | 15°41 | 19°58 | 25°30 | 22°55 | 23°15 | 16° 7 | 9°13 | 21°33 | 3°28 | 5°12 | 27°14 | 19°12 | S 21 |
| M22 | 12 1 27 | 2°17'02 | 26°30 | 17°28 | 21° 8 | 26° 9 | 23° 4 | 23°11 | 16°10 | 9°15 | 21°33 | 3°30 | 5° 9 | 27°21 | 19°15 | M22 |
| T 23 | 12 5 23 | 3°16'22 | 8♐51 | 19°12 | 22°18 | 26°48 | 23°12 | 23° 7 | 16°13 | 9°17 | 21°33 | 3°32 | 5° 6 | 27°27 | 19°18 | T 23 |
| W24 | 12 9 20 | 4°15'39 | 21°30 | 20°51 | 23°28 | 27°27 | 23°21 | 23° 3 | 16°15 | 9°19 | 21°32 | 3°33 | 5° 2 | 27°34 | 19°22 | W24 |
| T 25 | 12 13 16 | 5°14'55 | 4♑29 | 22°27 | 24°38 | 28° 6 | 23°29 | 22°59 | 16°18 | 9°21 | 21°32 | 3°R34 | 4°59 | 27°41 | 19°25 | T 25 |
| F 26 | 12 17 13 | 6°14'09 | 17°52 | 23°58 | 25°49 | 28°45 | 23°38 | 22°54 | 16°21 | 9°23 | 21°32 | 3°33 | 4°56 | 27°47 | 19°29 | F 26 |
| S 27 | 12 21 9 | 7°13'22 | 1♒42 | 25°24 | 26°59 | 29°24 | 23°46 | 22°50 | 16°24 | 9°25 | 21°32 | 3°31 | 4°53 | 27°54 | 19°32 | S 27 |
| S 28 | 12 25 6 | 8°12'32 | 15°58 | 26°44 | 28°10 | 0♊ 2 | 23°54 | 22°46 | 16°27 | 9°28 | 21°31 | 3°29 | 4°50 | 28° 1 | 19°36 | S 28 |
| M29 | 12 29 3 | 9°11'41 | 0♓39 | 27°59 | 29°20 | 0°41 | 24° 2 | 22°41 | 16°30 | 9°30 | 21°31 | 3°25 | 4°46 | 28° 7 | 19°40 | M29 |
| T 30 | 12 32 59 | 10°10'47 | 15°39 | 29° 9 | 0♓31 | 1°20 | 24°10 | 22°37 | 16°33 | 9°32 | 21°31 | 3°22 | 4°43 | 28°14 | 19°43 | T 30 |
| W31 | 12 36 56 | 11♈ 9'52 | 0♈50 | 0♉12 | 1♓41 | 1♊59 | 24♑17 | 22♎32 | 16♉36 | 9♓34 | 21♋31 | 3♉19 | 4♉40 | 28♍21 | 19♉47 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 7s18 | 18s42 | 4s52 | 10s49 | 1s58 | 19s27 | 1n23 | 16n22 | 0n48 | 22s 8 | 0s 5 | 6s57 | 2n43 | 16n10 | 0s19 | 9s13 | 0s52 | 23n48 | 2n 6 | 13n 5 | 13n38 | 5n 6 | 14n29 | 2s55 |
| T 2 | 6 55 | 12 46 | 4 17 | 10 4 | 1 55 | 19 18 | 1 19 | 16 34 | 0 48 | 22 6 | 0 5 | 6 56 | 2 43 | 16 11 | 0 19 | 9 12 | 0 52 | 23 48 | 2 6 | 13 2 | 13 37 | 5 3 | 14 30 | 2 55 |
| W 3 | 6 32 | 6 1 | 3 24 | 9 18 | 1 51 | 19 9 | 1 14 | 16 46 | 0 49 | 22 5 | 0 5 | 6 55 | 2 43 | 16 11 | 0 19 | 9 11 | 0 52 | 23 48 | 2 6 | 13 0 | 13 36 | 5 0 | 14 31 | 2 55 |
| T 4 | 6 9 | 1n 3 | 2 17 | 8 30 | 1 47 | 18 59 | 1 10 | 16 59 | 0 49 | 22 3 | 0 5 | 6 54 | 2 43 | 16 12 | 0 19 | 9 10 | 0 52 | 23 48 | 2 6 | 12 59 | 13 35 | 4 57 | 14 32 | 2 55 |
| F 5 | 5 46 | 7 58 | 1 1 | 7 41 | 1 42 | 18 48 | 1 5 | 17 11 | 0 50 | 22 2 | 0 5 | 6 52 | 2 43 | 16 12 | 0 19 | 9 10 | 0 52 | 23 49 | 2 6 | 12 58 | 13 34 | 4 53 | 14 32 | 2 55 |
| S 6 | 5 23 | 14 18 | 0n17 | 6 51 | 1 36 | 18 38 | 1 1 | 17 23 | 0 51 | 22 0 | 0 5 | 6 51 | 2 44 | 16 13 | 0 19 | 9 9 | 0 52 | 23 49 | 2 6 | 12 57 | 13 33 | 4 50 | 14 33 | 2 55 |
| S 7 | 5 0 | 19 42 | 1 33 | 6 0 | 1 30 | 18 26 | 0 56 | 17 35 | 0 51 | 21 59 | 0 5 | 6 50 | 2 44 | 16 14 | 0 19 | 9 8 | 0 52 | 23 49 | 2 6 | 12 58 | 13 32 | 4 47 | 14 34 | 2 55 |
| M 8 | 4 36 | 23 52 | 2 40 | 5 8 | 1 23 | 18 14 | 0 52 | 17 46 | 0 52 | 21 57 | 0 5 | 6 48 | 2 44 | 16 14 | 0 19 | 9 7 | 0 52 | 23 49 | 2 6 | 12 58 | 13 30 | 4 43 | 14 35 | 2 54 |
| T 9 | 4 13 | 26 37 | 3 37 | 4 15 | 1 16 | 18 2 | 0 47 | 17 58 | 0 52 | 21 56 | 0 6 | 6 47 | 2 44 | 16 15 | 0 19 | 9 6 | 0 52 | 23 49 | 2 6 | 12 58 | 13 29 | 4 40 | 14 36 | 2 54 |
| W10 | 3 49 | 27 49 | 4 21 | 3 20 | 1 9 | 17 49 | 0 43 | 18 9 | 0 52 | 21 54 | 0 6 | 6 46 | 2 44 | 16 16 | 0 19 | 9 5 | 0 52 | 23 49 | 2 6 | 12 58 | 13 28 | 4 37 | 14 36 | 2 54 |
| T 11 | 3 26 | 27 31 | 4 51 | 2 25 | 1 0 | 17 35 | 0 39 | 18 21 | 0 53 | 21 53 | 0 6 | 6 44 | 2 45 | 16 16 | 0 18 | 9 5 | 0 52 | 23 49 | 2 6 | 12 57 | 13 27 | 4 34 | 14 37 | 2 54 |
| F 12 | 3 2 | 25 50 | 5 7 | 1 30 | 0 51 | 17 21 | 0 34 | 18 32 | 0 53 | 21 51 | 0 6 | 6 43 | 2 45 | 16 17 | 0 18 | 9 4 | 0 52 | 23 49 | 2 6 | 12 56 | 13 26 | 4 30 | 14 38 | 2 54 |
| S 13 | 2 38 | 22 58 | 5 8 | 0 33 | 0 42 | 17 6 | 0 30 | 18 43 | 0 54 | 21 50 | 0 6 | 6 41 | 2 45 | 16 18 | 0 18 | 9 3 | 0 52 | 23 50 | 2 7 | 12 54 | 13 25 | 4 27 | 14 39 | 2 54 |
| S 14 | 2 15 | 19 9 | 4 56 | 0n23 | 0 32 | 16 51 | 0 26 | 18 54 | 0 54 | 21 49 | 0 6 | 6 40 | 2 45 | 16 19 | 0 18 | 9 2 | 0 52 | 23 50 | 2 7 | 12 51 | 13 24 | 4 24 | 14 40 | 2 54 |
| M15 | 1 51 | 14 35 | 4 30 | 1 20 | 0 22 | 16 36 | 0 22 | 19 4 | 0 55 | 21 47 | 0 6 | 6 38 | 2 45 | 16 19 | 0 18 | 9 1 | 0 52 | 23 50 | 2 7 | 12 49 | 13 23 | 4 20 | 14 41 | 2 54 |
| T 16 | 1 27 | 9 31 | 3 53 | 2 17 | 0 11 | 16 20 | 0 18 | 19 15 | 0 55 | 21 46 | 0 6 | 6 37 | 2 45 | 16 20 | 0 18 | 9 1 | 0 53 | 23 50 | 2 7 | 12 46 | 13 22 | 4 17 | 14 42 | 2 54 |
| W17 | 1 4 | 4 7 | 3 6 | 3 14 | 0n 0 | 16 4 | 0 14 | 19 26 | 0 56 | 21 44 | 0 6 | 6 35 | 2 45 | 16 21 | 0 18 | 9 0 | 0 53 | 23 50 | 2 7 | 12 44 | 13 21 | 4 14 | 14 42 | 2 54 |
| T 18 | 0 40 | 1s25 | 2 11 | 4 11 | 0 12 | 15 47 | 0 10 | 19 36 | 0 56 | 21 43 | 0 7 | 6 34 | 2 46 | 16 22 | 0 18 | 8 59 | 0 53 | 23 50 | 2 7 | 12 43 | 13 20 | 4 11 | 14 43 | 2 54 |
| F 19 | 0 16 | 6 55 | 1 10 | 5 6 | 0 23 | 15 29 | 0 6 | 19 46 | 0 56 | 21 42 | 0 7 | 6 32 | 2 46 | 16 22 | 0 18 | 8 58 | 0 53 | 23 50 | 2 7 | 12 42 | 13 19 | 4 7 | 14 44 | 2 54 |
| S 20 | 0n 7 | 12 13 | 0 6 | 6 1 | 0 35 | 15 12 | 0 2 | 19 56 | 0 57 | 21 40 | 0 7 | 6 30 | 2 46 | 16 23 | 0 18 | 8 57 | 0 53 | 23 50 | 2 7 | 12 42 | 13 18 | 4 4 | 14 45 | 2 54 |
| S 21 | 0 31 | 17 7 | 0s59 | 6 55 | 0 48 | 14 53 | 0s 2 | 20 6 | 0 57 | 21 39 | 0 7 | 6 29 | 2 46 | 16 24 | 0 18 | 8 56 | 0 53 | 23 50 | 2 7 | 12 42 | 13 17 | 4 1 | 14 46 | 2 54 |
| M22 | 0 55 | 21 24 | 2 3 | 7 47 | 1 0 | 14 35 | 0 6 | 20 15 | 0 58 | 21 37 | 0 7 | 6 27 | 2 46 | 16 25 | 0 18 | 8 56 | 0 53 | 23 50 | 2 7 | 12 42 | 13 16 | 3 57 | 14 47 | 2 54 |
| T 23 | 1 18 | 24 49 | 3 2 | 8 38 | 1 12 | 14 16 | 0 10 | 20 25 | 0 58 | 21 36 | 0 7 | 6 26 | 2 46 | 16 26 | 0 18 | 8 55 | 0 53 | 23 50 | 2 7 | 12 43 | 13 15 | 3 54 | 14 48 | 2 54 |
| W24 | 1 42 | 27 6 | 3 54 | 9 27 | 1 24 | 13 56 | 0 14 | 20 34 | 0 58 | 21 35 | 0 7 | 6 24 | 2 46 | 16 26 | 0 18 | 8 54 | 0 53 | 23 50 | 2 7 | 12 43 | 13 13 | 3 51 | 14 49 | 2 54 |
| T 25 | 2 5 | 27 59 | 4 35 | 10 14 | 1 36 | 13 36 | 0 17 | 20 44 | 0 59 | 21 33 | 0 8 | 6 22 | 2 46 | 16 27 | 0 18 | 8 53 | 0 53 | 23 50 | 2 7 | 12 44 | 13 12 | 3 47 | 14 50 | 2 53 |
| F 26 | 2 29 | 27 17 | 5 3 | 10 58 | 1 47 | 13 16 | 0 21 | 20 53 | 0 59 | 21 32 | 0 8 | 6 21 | 2 47 | 16 28 | 0 18 | 8 53 | 0 53 | 23 51 | 2 7 | 12 43 | 13 11 | 3 44 | 14 51 | 2 53 |
| S 27 | 2 52 | 24 55 | 5 14 | 11 40 | 1 58 | 12 55 | 0 25 | 21 1 | 1 0 | 21 31 | 0 8 | 6 19 | 2 47 | 16 29 | 0 18 | 8 52 | 0 53 | 23 51 | 2 7 | 12 43 | 13 10 | 3 41 | 14 52 | 2 53 |
| S 28 | 3 16 | 20 57 | 5 7 | 12 20 | 2 9 | 12 34 | 0 28 | 21 10 | 1 0 | 21 30 | 0 8 | 6 17 | 2 47 | 16 30 | 0 18 | 8 51 | 0 53 | 23 51 | 2 7 | 12 42 | 13 9 | 3 38 | 14 53 | 2 53 |
| M29 | 3 39 | 15 37 | 4 40 | 12 56 | 2 19 | 12 13 | 0 31 | 21 19 | 1 0 | 21 28 | 0 8 | 6 16 | 2 47 | 16 31 | 0 18 | 8 50 | 0 53 | 23 51 | 2 7 | 12 41 | 13 8 | 3 34 | 14 54 | 2 53 |
| T 30 | 4 2 | 9 15 | 3 53 | 13 30 | 2 28 | 11 51 | 0 35 | 21 27 | 1 1 | 21 27 | 0 8 | 6 14 | 2 47 | 16 31 | 0 18 | 8 50 | 0 53 | 23 51 | 2 7 | 12 40 | 13 7 | 3 31 | 14 55 | 2 53 |
| W31 | 4n25 | 2s16 | 2s49 | 14n 0 | 2n36 | 11s29 | 0s38 | 21n35 | 1n 1 | 21s26 | 0s 8 | 6s12 | 2n47 | 16n32 | 0s18 | 8s49 | 0s53 | 23n51 | 2n 7 | 12n39 | 13n 6 | 3n28 | 14n56 | 2s53 |

Julian Day Number = 2337649.5, Delta T = 19.30 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'15, Lahiri = 19°30'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## APRIL 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 40 52 | 12♈ 8'55 | 16♈ 2 | 1♉10 | 2♓52 | 2♊38 | 24♑25 | 22°R28 | 16♉39 | 9♓36 | 21°R31 | 3°R18 | 4♉37 | 28♍27 | 19♉51 | T 1 |
| F 2 | 12 44 49 | 13° 7'56 | 1♉ 5 | 2° 1 | 4° 3 | 3°17 | 24°32 | 22♎23 | 16°42 | 9°38 | 21♋31 | 3°D17 | 4°34 | 28°34 | 19°54 | F 2 |
| S 3 | 12 48 45 | 14° 6'54 | 15°52 | 2°45 | 5°14 | 3°56 | 24°39 | 22°19 | 16°45 | 9°40 | 21°D31 | 3♉17 | 4°31 | 28°41 | 19°58 | S 3 |
| S 4 | 12 52 42 | 15° 5'51 | 0♊15 | 3°23 | 6°25 | 4°35 | 24°47 | 22°14 | 16°48 | 9°42 | 21°31 | 3°18 | 4°27 | 28°47 | 20° 2 | S 4 |
| M 5 | 12 56 38 | 16° 4'45 | 14°13 | 3°55 | 7°36 | 5°13 | 24°53 | 22°10 | 16°51 | 9°43 | 21°31 | 3°20 | 4°24 | 28°54 | 20° 6 | M 5 |
| T 6 | 13 0 35 | 17° 3'37 | 27°43 | 4°20 | 8°47 | 5°52 | 25° 0 | 22° 5 | 16°54 | 9°45 | 21°31 | 3°21 | 4°21 | 29° 1 | 20°10 | T 6 |
| W 7 | 13 4 32 | 18° 2'27 | 10♋48 | 4°38 | 9°58 | 6°31 | 25° 7 | 22° 1 | 16°57 | 9°47 | 21°31 | 3°21 | 4°18 | 29° 7 | 20°14 | W 7 |
| T 8 | 13 8 28 | 19° 1'14 | 23°31 | 4°50 | 11° 9 | 7°10 | 25°13 | 21°56 | 17° 0 | 9°49 | 21°31 | 3°R22 | 4°15 | 29°14 | 20°18 | T 8 |
| F 9 | 13 12 25 | 19°59'59 | 5♌55 | 4°R55 | 12°20 | 7°49 | 25°20 | 21°51 | 17° 3 | 9°51 | 21°31 | 3°21 | 4°12 | 29°21 | 20°22 | F 9 |
| S 10 | 13 16 21 | 20°58'42 | 18° 5 | 4°54 | 13°31 | 8°27 | 25°26 | 21°47 | 17° 7 | 9°53 | 21°32 | 3°20 | 4° 8 | 29°27 | 20°26 | S 10 |
| S 11 | 13 20 18 | 21°57'23 | 0♍ 4 | 4°47 | 14°42 | 9° 6 | 25°32 | 21°42 | 17°10 | 9°55 | 21°32 | 3°18 | 4° 5 | 29°34 | 20°30 | S 11 |
| M12 | 13 24 14 | 22°56'01 | 11°57 | 4°34 | 15°53 | 9°45 | 25°38 | 21°38 | 17°13 | 9°56 | 21°32 | 3°17 | 4° 2 | 29°41 | 20°34 | M12 |
| T 13 | 13 28 11 | 23°54'37 | 23°46 | 4°16 | 17° 4 | 10°23 | 25°43 | 21°33 | 17°16 | 9°58 | 21°32 | 3°15 | 3°59 | 29°47 | 20°38 | T 13 |
| W14 | 13 32 7 | 24°53'11 | 5♎35 | 3°53 | 18°16 | 11° 2 | 25°49 | 21°28 | 17°20 | 10° 0 | 21°32 | 3°14 | 3°56 | 29°54 | 20°42 | W14 |
| T 15 | 13 36 4 | 25°51'43 | 17°26 | 3°26 | 19°27 | 11°41 | 25°54 | 21°24 | 17°23 | 10° 2 | 21°33 | 3°13 | 3°52 | 0♎ 1 | 20°46 | T 15 |
| F 16 | 13 40 0 | 26°50'13 | 29°22 | 2°54 | 20°38 | 12°19 | 25°59 | 21°19 | 17°26 | 10° 3 | 21°33 | 3°D13 | 3°49 | 0° 7 | 20°50 | F 16 |
| S 17 | 13 43 57 | 27°48'42 | 11♏24 | 2°19 | 21°50 | 12°58 | 26° 5 | 21°15 | 17°30 | 10° 5 | 21°33 | 3°13 | 3°46 | 0°14 | 20°55 | S 17 |
| S 18 | 13 47 54 | 28°47'08 | 23°34 | 1°42 | 23° 1 | 13°37 | 26° 9 | 21°10 | 17°33 | 10° 7 | 21°34 | 3°14 | 3°43 | 0°21 | 20°59 | S 18 |
| M19 | 13 51 50 | 29°45'33 | 5♐55 | 1° 3 | 24°12 | 14°15 | 26°14 | 21° 6 | 17°36 | 10° 8 | 21°34 | 3°14 | 3°40 | 0°27 | 21° 3 | M19 |
| T 20 | 13 55 47 | 0♑43'56 | 18°28 | 0°23 | 25°24 | 14°54 | 26°19 | 21° 1 | 17°40 | 10°10 | 21°34 | 3°14 | 3°37 | 0°34 | 21° 7 | T 20 |
| W21 | 13 59 43 | 1°42'17 | 1♑16 | 29♈42 | 26°35 | 15°32 | 26°23 | 20°57 | 17°43 | 10°12 | 21°35 | 3°14 | 3°33 | 0°41 | 21°12 | W21 |
| T 22 | 14 3 40 | 2°40'37 | 14°20 | 29° 2 | 27°47 | 16°11 | 26°27 | 20°52 | 17°46 | 10°13 | 21°35 | 3°15 | 3°30 | 0°47 | 21°16 | T 22 |
| F 23 | 14 7 36 | 3°38'55 | 27°43 | 28°23 | 28°59 | 16°50 | 26°31 | 20°48 | 17°50 | 10°15 | 21°36 | 3°15 | 3°27 | 0°54 | 21°20 | F 23 |
| S 24 | 14 11 33 | 4°37'12 | 11♒27 | 27°46 | 0♈10 | 17°28 | 26°35 | 20°43 | 17°53 | 10°16 | 21°36 | 3°15 | 3°24 | 1° 1 | 21°25 | S 24 |
| S 25 | 14 15 29 | 5°35'27 | 25°31 | 27°11 | 1°22 | 18° 7 | 26°39 | 20°39 | 17°57 | 10°18 | 21°37 | 3°15 | 3°21 | 1° 7 | 21°29 | S 25 |
| M26 | 14 19 26 | 6°33'41 | 9♓55 | 26°38 | 2°34 | 18°45 | 26°42 | 20°35 | 18° 0 | 10°19 | 21°37 | 3°15 | 3°18 | 1°14 | 21°33 | M26 |
| T 27 | 14 23 23 | 7°31'53 | 24°34 | 26°10 | 3°45 | 19°24 | 26°46 | 20°30 | 18° 3 | 10°21 | 21°38 | 3°15 | 3°14 | 1°21 | 21°38 | T 27 |
| W28 | 14 27 19 | 8°30'04 | 9♈26 | 25°45 | 4°57 | 20° 2 | 26°49 | 20°26 | 18° 7 | 10°22 | 21°39 | 3°16 | 3°11 | 1°27 | 21°42 | W28 |
| T 29 | 14 31 16 | 9°28'13 | 24°22 | 25°24 | 6° 9 | 20°41 | 26°52 | 20°22 | 18°10 | 10°23 | 21°39 | 3°16 | 3° 8 | 1°34 | 21°46 | T 29 |
| F 30 | 14 35 12 | 10♉26'20 | 9♉15 | 25♈ 7 | 7♈21 | 21♊19 | 26♑55 | 20♎18 | 18♉14 | 10♓25 | 21♋40 | 3°R16 | 3♉ 5 | 1♎41 | 21♉51 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n49 | 4n52 | 1s34 | 14n27 | 2n44 | 11s 7 | 0s41 | 21n43 | 1n 1 | 21s25 | 0s 8 | 6s10 | 2n47 | 16n33 | 0s18 | 8s48 | 0s53 | 23n51 | 2n 7 | 12n38 | 13n 5 | 3n24 | 14n57 | 2s53 |
| F 2 | 5 12 | 11 41 | 0 12 | 14 52 | 2 51 | 10 44 | 0 44 | 21 51 | 1 2 | 21 24 | 0 9 | 6 9 | 2 47 | 16 34 | 0 18 | 8 47 | 0 53 | 23 51 | 2 7 | 12 38 | 13 4 | 3 21 | 14 58 | 2 53 |
| S 3 | 5 35 | 17 43 | 1n 9 | 15 12 | 2 56 | 10 21 | 0 47 | 21 59 | 1 2 | 21 22 | 0 9 | 6 7 | 2 47 | 16 35 | 0 18 | 8 47 | 0 53 | 23 51 | 2 7 | 12 38 | 13 3 | 3 18 | 14 59 | 2 53 |
| S 4 | 5 57 | 22 35 | 2 24 | 15 30 | 3 1 | 9 57 | 0 50 | 22 7 | 1 2 | 21 21 | 0 9 | 6 5 | 2 47 | 16 36 | 0 18 | 8 46 | 0 53 | 23 51 | 2 7 | 12 38 | 13 2 | 3 14 | 15 0 | 2 53 |
| M 5 | 6 20 | 25 59 | 3 27 | 15 44 | 3 4 | 9 34 | 0 53 | 22 14 | 1 2 | 21 20 | 0 9 | 6 4 | 2 47 | 16 37 | 0 18 | 8 45 | 0 53 | 23 51 | 2 7 | 12 39 | 13 1 | 3 11 | 15 1 | 2 53 |
| T 6 | 6 43 | 27 45 | 4 17 | 15 54 | 3 6 | 9 10 | 0 56 | 22 21 | 1 3 | 21 19 | 0 9 | 6 2 | 2 47 | 16 38 | 0 18 | 8 45 | 0 53 | 23 51 | 2 7 | 12 39 | 13 0 | 3 8 | 15 2 | 2 53 |
| W 7 | 7 5 | 27 54 | 4 52 | 16 2 | 3 7 | 8 46 | 0 59 | 22 28 | 1 3 | 21 18 | 0 9 | 6 0 | 2 47 | 16 38 | 0 18 | 8 44 | 0 53 | 23 51 | 2 7 | 12 39 | 12 59 | 3 4 | 15 3 | 2 53 |
| T 8 | 7 28 | 26 33 | 5 12 | 16 5 | 3 7 | 8 21 | 1 2 | 22 35 | 1 3 | 21 17 | 0 9 | 5 58 | 2 47 | 16 39 | 0 18 | 8 43 | 0 53 | 23 51 | 2 7 | 12 39 | 12 57 | 3 1 | 15 4 | 2 53 |
| F 9 | 7 50 | 23 56 | 5 16 | 16 5 | 3 5 | 7 56 | 1 4 | 22 42 | 1 4 | 21 16 | 0 10 | 5 57 | 2 47 | 16 40 | 0 18 | 8 42 | 0 53 | 23 51 | 2 7 | 12 39 | 12 56 | 2 58 | 15 5 | 2 53 |
| S 10 | 8 12 | 20 17 | 5 6 | 16 2 | 3 2 | 7 31 | 1 7 | 22 48 | 1 4 | 21 15 | 0 10 | 5 55 | 2 47 | 16 41 | 0 18 | 8 42 | 0 53 | 23 51 | 2 7 | 12 39 | 12 55 | 2 54 | 15 6 | 2 53 |
| S 11 | 8 34 | 15 52 | 4 43 | 15 55 | 2 57 | 7 6 | 1 9 | 22 55 | 1 4 | 21 14 | 0 10 | 5 53 | 2 47 | 16 42 | 0 18 | 8 41 | 0 53 | 23 51 | 2 7 | 12 38 | 12 54 | 2 51 | 15 7 | 2 53 |
| M12 | 8 56 | 10 54 | 4 7 | 15 45 | 2 51 | 6 41 | 1 12 | 23 1 | 1 4 | 21 13 | 0 10 | 5 51 | 2 47 | 16 43 | 0 18 | 8 41 | 0 53 | 23 51 | 2 7 | 12 38 | 12 53 | 2 48 | 15 8 | 2 53 |
| T 13 | 9 18 | 5 34 | 3 22 | 15 32 | 2 44 | 6 15 | 1 14 | 23 7 | 1 5 | 21 12 | 0 10 | 5 50 | 2 47 | 16 44 | 0 18 | 8 40 | 0 53 | 23 51 | 2 7 | 12 37 | 12 52 | 2 44 | 15 9 | 2 53 |
| W14 | 9 39 | 0 2 | 2 27 | 15 16 | 2 35 | 5 49 | 1 16 | 23 13 | 1 5 | 21 11 | 0 10 | 5 48 | 2 47 | 16 45 | 0 18 | 8 39 | 0 53 | 23 51 | 2 7 | 12 37 | 12 51 | 2 41 | 15 11 | 2 53 |
| T 15 | 10 1 | 5s32 | 1 26 | 14 56 | 2 24 | 5 23 | 1 19 | 23 18 | 1 5 | 21 10 | 0 10 | 5 46 | 2 47 | 16 46 | 0 18 | 8 39 | 0 53 | 23 51 | 2 7 | 12 37 | 12 50 | 2 38 | 15 12 | 2 53 |
| F 16 | 10 22 | 10 56 | 0 21 | 14 35 | 2 13 | 4 57 | 1 21 | 23 24 | 1 5 | 21 10 | 0 11 | 5 45 | 2 47 | 16 47 | 0 18 | 8 38 | 0 53 | 23 51 | 2 7 | 12 37 | 12 49 | 2 34 | 15 13 | 2 53 |
| S 17 | 10 43 | 16 0 | 0s45 | 14 11 | 2 0 | 4 31 | 1 23 | 23 29 | 1 6 | 21 9 | 0 11 | 5 43 | 2 47 | 16 48 | 0 18 | 8 37 | 0 53 | 23 51 | 2 7 | 12 37 | 12 48 | 2 31 | 15 14 | 2 53 |
| S 18 | 11 4 | 20 29 | 1 51 | 13 45 | 1 46 | 4 4 | 1 25 | 23 34 | 1 6 | 21 8 | 0 11 | 5 41 | 2 47 | 16 49 | 0 18 | 8 37 | 0 53 | 23 50 | 2 7 | 12 37 | 12 47 | 2 28 | 15 15 | 2 53 |
| M19 | 11 24 | 24 9 | 2 52 | 13 17 | 1 31 | 3 38 | 1 26 | 23 39 | 1 6 | 21 7 | 0 11 | 5 40 | 2 47 | 16 50 | 0 18 | 8 36 | 0 53 | 23 50 | 2 7 | 12 37 | 12 46 | 2 24 | 15 16 | 2 53 |
| T 20 | 11 45 | 26 44 | 3 46 | 12 48 | 1 16 | 3 11 | 1 28 | 23 43 | 1 6 | 21 7 | 0 11 | 5 38 | 2 47 | 16 51 | 0 18 | 8 36 | 0 53 | 23 50 | 2 7 | 12 37 | 12 45 | 2 21 | 15 17 | 2 53 |
| W21 | 12 5 | 27 58 | 4 30 | 12 19 | 0 59 | 2 44 | 1 30 | 23 48 | 1 7 | 21 6 | 0 11 | 5 36 | 2 47 | 16 52 | 0 18 | 8 35 | 0 53 | 23 50 | 2 7 | 12 37 | 12 43 | 2 18 | 15 18 | 2 53 |
| T 22 | 12 25 | 27 41 | 5 0 | 11 49 | 0 43 | 2 17 | 1 31 | 23 52 | 1 7 | 21 5 | 0 12 | 5 35 | 2 47 | 16 53 | 0 18 | 8 34 | 0 53 | 23 50 | 2 7 | 12 37 | 12 42 | 2 14 | 15 19 | 2 53 |
| F 23 | 12 45 | 25 49 | 5 16 | 11 19 | 0 25 | 1 50 | 1 33 | 23 56 | 1 7 | 21 5 | 0 12 | 5 33 | 2 47 | 16 54 | 0 18 | 8 34 | 0 53 | 23 50 | 2 7 | 12 37 | 12 41 | 2 11 | 15 20 | 2 53 |
| S 24 | 13 5 | 22 24 | 5 14 | 10 50 | 0 8 | 1 22 | 1 34 | 24 0 | 1 7 | 21 4 | 0 12 | 5 32 | 2 47 | 16 54 | 0 18 | 8 33 | 0 54 | 23 50 | 2 7 | 12 37 | 12 40 | 2 8 | 15 21 | 2 53 |
| S 25 | 13 25 | 17 39 | 4 54 | 10 21 | 0s 9 | 0 55 | 1 36 | 24 4 | 1 7 | 21 4 | 0 12 | 5 30 | 2 47 | 16 55 | 0 18 | 8 33 | 0 54 | 23 50 | 2 7 | 12 37 | 12 39 | 2 4 | 15 22 | 2 53 |
| M26 | 13 44 | 11 48 | 4 15 | 9 54 | 0 26 | 0 28 | 1 37 | 24 8 | 1 8 | 21 3 | 0 12 | 5 29 | 2 47 | 16 56 | 0 18 | 8 32 | 0 54 | 23 50 | 2 7 | 12 37 | 12 38 | 2 1 | 15 23 | 2 53 |
| T 27 | 14 3 | 5 12 | 3 19 | 9 28 | 0 42 | 0 0 | 1 38 | 24 11 | 1 8 | 21 3 | 0 12 | 5 27 | 2 47 | 16 57 | 0 18 | 8 32 | 0 54 | 23 50 | 2 7 | 12 37 | 12 37 | 1 58 | 15 25 | 2 54 |
| W28 | 14 22 | 1n46 | 2 9 | 9 4 | 0 58 | 0n27 | 1 39 | 24 14 | 1 8 | 21 2 | 0 12 | 5 25 | 2 47 | 16 58 | 0 18 | 8 31 | 0 54 | 23 50 | 2 7 | 12 37 | 12 36 | 1 54 | 15 26 | 2 54 |
| T 29 | 14 40 | 8 42 | 0 49 | 8 42 | 1 14 | 0 55 | 1 40 | 24 17 | 1 8 | 21 2 | 0 13 | 5 24 | 2 46 | 16 59 | 0 18 | 8 31 | 0 54 | 23 50 | 2 7 | 12 37 | 12 35 | 1 51 | 15 27 | 2 54 |
| F 30 | 14n59 | 15n 7 | 0n33 | 8n22 | 1s29 | 1n22 | 1s41 | 24n20 | 1n 8 | 21s 1 | 0s13 | 5s23 | 2n46 | 17n 0 | 0s18 | 8s30 | 0s54 | 23n50 | 2n 7 | 12n37 | 12n34 | 1n48 | 15n28 | 2s54 |

Julian Day Number = 2337680.5, Delta T = 19.26 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'19, Lahiri = 19°30'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## MAY 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 39 9 | 11♉24'26 | 23♉57 | 24°R55 | 8♈32 | 21♊58 | 26♏57 | 20°R13 | 18♉17 | 10♓26 | 21♋41 | 3°R16 | 3♉ 2 | 1♎47 | 21♉55 | S 1 |
| S 2 | 14 43 5 | 12°22'30 | 8♊21 | 24♈47 | 9°44 | 22°36 | 27° 0 | 20♎ 9 | 18°21 | 10°27 | 21°41 | 3♉15 | 2°58 | 1°54 | 22° 0 | S 2 |
| M 3 | 14 47 2 | 13°20'33 | 22°23 | 24°D45 | 10°56 | 23°14 | 27° 2 | 20° 5 | 18°24 | 10°29 | 21°42 | 3°14 | 2°55 | 2° 1 | 22° 4 | M 3 |
| T 4 | 14 50 58 | 14°18'33 | 6♋ 0 | 24°46 | 12° 8 | 23°53 | 27° 4 | 20° 1 | 18°28 | 10°30 | 21°43 | 3°12 | 2°52 | 2° 7 | 22° 9 | T 4 |
| W 5 | 14 54 55 | 15°16'32 | 19°11 | 24°53 | 13°20 | 24°31 | 27° 6 | 19°57 | 18°31 | 10°31 | 21°44 | 3°11 | 2°49 | 2°14 | 22°13 | W 5 |
| T 6 | 14 58 52 | 16°14'29 | 1♌59 | 25° 4 | 14°32 | 25°10 | 27° 7 | 19°53 | 18°35 | 10°32 | 21°44 | 3°10 | 2°46 | 2°21 | 22°18 | T 6 |
| F 7 | 15 2 48 | 17°12'24 | 14°26 | 25°20 | 15°44 | 25°48 | 27° 9 | 19°50 | 18°38 | 10°34 | 21°45 | 3°D10 | 2°43 | 2°27 | 22°22 | F 7 |
| S 8 | 15 6 45 | 18°10'17 | 26°36 | 25°40 | 16°56 | 26°26 | 27°10 | 19°46 | 18°42 | 10°35 | 21°46 | 3°10 | 2°39 | 2°34 | 22°26 | S 8 |
| S 9 | 15 10 41 | 19° 8'09 | 8♍35 | 26° 4 | 18° 8 | 27° 5 | 27°11 | 19°42 | 18°45 | 10°36 | 21°47 | 3°11 | 2°36 | 2°41 | 22°31 | S 9 |
| M10 | 15 14 38 | 20° 5'58 | 20°26 | 26°33 | 19°20 | 27°43 | 27°12 | 19°39 | 18°49 | 10°37 | 21°48 | 3°12 | 2°33 | 2°47 | 22°35 | M10 |
| T 11 | 15 18 34 | 21° 3'46 | 2♎15 | 27° 6 | 20°32 | 28°21 | 27°13 | 19°35 | 18°52 | 10°38 | 21°49 | 3°13 | 2°30 | 2°54 | 22°40 | T 11 |
| W12 | 15 22 31 | 22° 1'33 | 14° 5 | 27°43 | 21°44 | 29° 0 | 27°13 | 19°31 | 18°56 | 10°39 | 21°49 | 3°15 | 2°27 | 3° 1 | 22°44 | W12 |
| T 13 | 15 26 27 | 22°59'17 | 26° 0 | 28°23 | 22°56 | 29°38 | 27°14 | 19°28 | 18°59 | 10°40 | 21°50 | 3°16 | 2°24 | 3° 7 | 22°49 | T 13 |
| F 14 | 15 30 24 | 23°57'01 | 8♏ 3 | 29° 8 | 24° 8 | 0♋16 | 27°R14 | 19°25 | 19° 3 | 10°41 | 21°51 | 3°R16 | 2°20 | 3°14 | 22°53 | F 14 |
| S 15 | 15 34 21 | 24°54'42 | 20°17 | 29°56 | 25°20 | 0°54 | 27°14 | 19°21 | 19° 6 | 10°42 | 21°52 | 3°15 | 2°17 | 3°21 | 22°58 | S 15 |
| S 16 | 15 38 17 | 25°52'23 | 2♐42 | 0♉47 | 26°32 | 1°33 | 27°14 | 19°18 | 19°10 | 10°43 | 21°53 | 3°13 | 2°14 | 3°27 | 23° 2 | S 16 |
| M17 | 15 42 14 | 26°50'02 | 15°21 | 1°42 | 27°44 | 2°11 | 27°13 | 19°15 | 19°13 | 10°44 | 21°54 | 3°10 | 2°11 | 3°34 | 23° 7 | M17 |
| T 18 | 15 46 10 | 27°47'40 | 28°13 | 2°40 | 28°57 | 2°49 | 27°13 | 19°12 | 19°16 | 10°44 | 21°55 | 3° 6 | 2° 8 | 3°41 | 23°11 | T 18 |
| W19 | 15 50 7 | 28°45'17 | 11♑19 | 3°42 | 0♉ 9 | 3°27 | 27°12 | 19° 9 | 19°20 | 10°45 | 21°56 | 3° 2 | 2° 4 | 3°47 | 23°16 | W19 |
| T 20 | 15 54 3 | 29°42'53 | 24°39 | 4°46 | 1°21 | 4° 6 | 27°11 | 19° 6 | 19°23 | 10°46 | 21°58 | 2°59 | 2° 1 | 3°54 | 23°20 | T 20 |
| F 21 | 15 58 0 | 0♊40'28 | 8♒12 | 5°54 | 2°33 | 4°44 | 27°10 | 19° 3 | 19°27 | 10°47 | 21°59 | 2°56 | 1°58 | 4° 1 | 23°25 | F 21 |
| S 22 | 16 1 57 | 1°38'02 | 21°59 | 7° 4 | 3°45 | 5°22 | 27° 8 | 19° 0 | 19°30 | 10°47 | 22° 0 | 2°55 | 1°55 | 4° 7 | 23°29 | S 22 |
| S 23 | 16 5 53 | 2°35'35 | 5♓58 | 8°17 | 4°58 | 6° 0 | 27° 7 | 18°57 | 19°34 | 10°48 | 22° 1 | 2°D54 | 1°52 | 4°14 | 23°34 | S 23 |
| M24 | 16 9 50 | 3°33'07 | 20° 9 | 9°33 | 6°10 | 6°38 | 27° 5 | 18°55 | 19°37 | 10°49 | 22° 2 | 2°55 | 1°49 | 4°21 | 23°38 | M24 |
| T 25 | 16 13 46 | 4°30'39 | 4♈30 | 10°52 | 7°22 | 7°16 | 27° 3 | 18°52 | 19°41 | 10°49 | 22° 3 | 2°56 | 1°45 | 4°27 | 23°43 | T 25 |
| W26 | 16 17 43 | 5°28'09 | 18°58 | 12°14 | 8°35 | 7°55 | 27° 1 | 18°50 | 19°44 | 10°50 | 22° 4 | 2°58 | 1°42 | 4°34 | 23°47 | W26 |
| T 27 | 16 21 39 | 6°25'39 | 3♉29 | 13°38 | 9°47 | 8°33 | 26°59 | 18°48 | 19°47 | 10°51 | 22° 6 | 2°R58 | 1°39 | 4°41 | 23°52 | T 27 |
| F 28 | 16 25 36 | 7°23'08 | 18° 0 | 15° 5 | 10°59 | 9°11 | 26°56 | 18°45 | 19°51 | 10°51 | 22° 7 | 2°57 | 1°36 | 4°47 | 23°56 | F 28 |
| S 29 | 16 29 32 | 8°20'36 | 2♊23 | 16°35 | 12°12 | 9°49 | 26°54 | 18°43 | 19°54 | 10°52 | 22° 8 | 2°55 | 1°33 | 4°54 | 24° 0 | S 29 |
| S 30 | 16 33 29 | 9°18'03 | 16°35 | 18° 7 | 13°24 | 10°27 | 26°51 | 18°41 | 19°57 | 10°52 | 22° 9 | 2°51 | 1°30 | 5° 1 | 24° 5 | S 30 |
| M31 | 16 37 26 | 10♊15'30 | 0♋29 | 19♉42 | 14♉37 | 11♋ 5 | 26♏48 | 18♎39 | 20♉ 1 | 10♓52 | 22♋11 | 2♉45 | 1♉26 | 5♎ 7 | 24♉ 9 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n17 | 20n36 | 1n52 | 8n 4 | 1s43 | 1n50 | 1s42 | 24n23 | 1n 8 | 21s 1 | 0s13 | 5s21 | 2n46 | 17n 1 | 0s18 | 8s30 | 0s54 | 23n50 | 2n 7 | 12n37 | 12n33 | 1n44 | 15n29 | 2s54 |
| S 2 | 15 35 | 24 45 | 3 3 | 7 49 | 1 56 | 2 18 | 1 43 | 24 25 | 1 9 | 21 1 | 0 13 | 5 20 | 2 46 | 17 2 | 0 18 | 8 29 | 0 54 | 23 49 | 2 7 | 12 37 | 12 32 | 1 41 | 15 30 | 2 54 |
| M 3 | 15 52 | 27 15 | 4 0 | 7 37 | 2 8 | 2 45 | 1 43 | 24 27 | 1 9 | 21 0 | 0 13 | 5 18 | 2 46 | 17 3 | 0 18 | 8 29 | 0 54 | 23 49 | 2 7 | 12 37 | 12 30 | 1 38 | 15 31 | 2 54 |
| T 4 | 16 10 | 28 2 | 4 42 | 7 27 | 2 19 | 3 13 | 1 44 | 24 29 | 1 9 | 21 0 | 0 13 | 5 17 | 2 46 | 17 4 | 0 18 | 8 28 | 0 54 | 23 49 | 2 7 | 12 36 | 12 29 | 1 34 | 15 32 | 2 54 |
| W 5 | 16 27 | 27 11 | 5 7 | 7 19 | 2 30 | 3 40 | 1 44 | 24 31 | 1 9 | 21 0 | 0 14 | 5 15 | 2 46 | 17 5 | 0 18 | 8 28 | 0 54 | 23 49 | 2 7 | 12 36 | 12 28 | 1 31 | 15 33 | 2 54 |
| T 6 | 16 44 | 24 54 | 5 17 | 7 15 | 2 40 | 4 8 | 1 45 | 24 33 | 1 9 | 21 0 | 0 14 | 5 14 | 2 46 | 17 6 | 0 18 | 8 28 | 0 54 | 23 49 | 2 7 | 12 35 | 12 27 | 1 28 | 15 34 | 2 54 |
| F 7 | 17 0 | 21 29 | 5 11 | 7 12 | 2 48 | 4 35 | 1 45 | 24 34 | 1 9 | 21 0 | 0 14 | 5 13 | 2 45 | 17 7 | 0 18 | 8 27 | 0 54 | 23 49 | 2 7 | 12 35 | 12 26 | 1 24 | 15 35 | 2 54 |
| S 8 | 17 16 | 17 13 | 4 51 | 7 12 | 2 56 | 5 2 | 1 45 | 24 36 | 1 10 | 21 0 | 0 14 | 5 12 | 2 45 | 17 8 | 0 18 | 8 27 | 0 54 | 23 49 | 2 7 | 12 35 | 12 25 | 1 21 | 15 36 | 2 54 |
| S 9 | 17 32 | 12 21 | 4 18 | 7 15 | 3 3 | 5 30 | 1 46 | 24 37 | 1 10 | 21 0 | 0 14 | 5 10 | 2 45 | 17 9 | 0 18 | 8 26 | 0 54 | 23 49 | 2 7 | 12 36 | 12 24 | 1 18 | 15 37 | 2 54 |
| M10 | 17 48 | 7 5 | 3 35 | 7 20 | 3 8 | 5 57 | 1 46 | 24 37 | 1 10 | 21 0 | 0 14 | 5 9 | 2 45 | 17 10 | 0 18 | 8 26 | 0 54 | 23 49 | 2 7 | 12 36 | 12 23 | 1 14 | 15 38 | 2 54 |
| T 11 | 18 3 | 1 36 | 2 43 | 7 27 | 3 13 | 6 24 | 1 46 | 24 38 | 1 10 | 21 0 | 0 15 | 5 8 | 2 45 | 17 11 | 0 18 | 8 26 | 0 54 | 23 48 | 2 7 | 12 37 | 12 22 | 1 11 | 15 40 | 2 54 |
| W12 | 18 18 | 3s58 | 1 44 | 7 36 | 3 17 | 6 51 | 1 46 | 24 39 | 1 10 | 21 0 | 0 15 | 5 7 | 2 45 | 17 12 | 0 18 | 8 25 | 0 54 | 23 48 | 2 7 | 12 37 | 12 21 | 1 8 | 15 41 | 2 54 |
| T 13 | 18 33 | 9 26 | 0 40 | 7 48 | 3 21 | 7 18 | 1 46 | 24 39 | 1 10 | 21 0 | 0 15 | 5 6 | 2 45 | 17 13 | 0 18 | 8 25 | 0 54 | 23 48 | 2 7 | 12 37 | 12 20 | 1 4 | 15 42 | 2 55 |
| F 14 | 18 48 | 14 38 | 0s26 | 8 1 | 3 23 | 7 45 | 1 45 | 24 39 | 1 10 | 21 0 | 0 15 | 5 4 | 2 44 | 17 14 | 0 18 | 8 25 | 0 54 | 23 48 | 2 7 | 12 37 | 12 18 | 1 1 | 15 43 | 2 55 |
| S 15 | 19 2 | 19 20 | 1 32 | 8 17 | 3 25 | 8 11 | 1 45 | 24 39 | 1 10 | 21 0 | 0 15 | 5 3 | 2 44 | 17 15 | 0 18 | 8 24 | 0 54 | 23 48 | 2 7 | 12 37 | 12 17 | 0 57 | 15 44 | 2 55 |
| S 16 | 19 16 | 23 16 | 2 35 | 8 34 | 3 25 | 8 38 | 1 45 | 24 39 | 1 10 | 21 0 | 0 16 | 5 2 | 2 44 | 17 16 | 0 18 | 8 24 | 0 54 | 23 48 | 2 7 | 12 36 | 12 16 | 0 54 | 15 45 | 2 55 |
| M17 | 19 29 | 26 10 | 3 31 | 8 53 | 3 25 | 9 4 | 1 44 | 24 38 | 1 11 | 21 1 | 0 16 | 5 1 | 2 44 | 17 17 | 0 18 | 8 24 | 0 54 | 23 48 | 2 7 | 12 35 | 12 15 | 0 51 | 15 46 | 2 55 |
| T 18 | 19 42 | 27 46 | 4 18 | 9 13 | 3 24 | 9 30 | 1 44 | 24 38 | 1 11 | 21 1 | 0 16 | 5 0 | 2 44 | 17 18 | 0 18 | 8 23 | 0 54 | 23 47 | 2 7 | 12 34 | 12 14 | 0 47 | 15 47 | 2 55 |
| W19 | 19 55 | 27 50 | 4 51 | 9 35 | 3 23 | 9 56 | 1 43 | 24 37 | 1 11 | 21 1 | 0 16 | 4 59 | 2 43 | 17 19 | 0 18 | 8 23 | 0 54 | 23 47 | 2 8 | 12 33 | 12 13 | 0 44 | 15 48 | 2 55 |
| T 20 | 20 8 | 26 19 | 5 10 | 9 59 | 3 21 | 10 22 | 1 42 | 24 36 | 1 11 | 21 2 | 0 16 | 4 58 | 2 43 | 17 20 | 0 18 | 8 23 | 0 54 | 23 47 | 2 8 | 12 32 | 12 12 | 0 41 | 15 49 | 2 55 |
| F 21 | 20 20 | 23 16 | 5 12 | 10 24 | 3 18 | 10 47 | 1 42 | 24 35 | 1 11 | 21 2 | 0 16 | 4 57 | 2 43 | 17 20 | 0 18 | 8 23 | 0 55 | 23 47 | 2 8 | 12 31 | 12 11 | 0 37 | 15 50 | 2 55 |
| S 22 | 20 31 | 18 52 | 4 56 | 10 50 | 3 14 | 11 13 | 1 41 | 24 33 | 1 11 | 21 2 | 0 17 | 4 57 | 2 43 | 17 21 | 0 18 | 8 22 | 0 55 | 23 47 | 2 8 | 12 30 | 12 10 | 0 34 | 15 51 | 2 55 |
| S 23 | 20 43 | 13 24 | 4 23 | 11 17 | 3 10 | 11 38 | 1 40 | 24 32 | 1 11 | 21 3 | 0 17 | 4 56 | 2 43 | 17 22 | 0 18 | 8 22 | 0 55 | 23 47 | 2 8 | 12 30 | 12 9 | 0 31 | 15 52 | 2 56 |
| M24 | 20 54 | 7 10 | 3 33 | 11 46 | 3 5 | 12 2 | 1 39 | 24 30 | 1 11 | 21 3 | 0 17 | 4 55 | 2 42 | 17 23 | 0 18 | 8 22 | 0 55 | 23 47 | 2 8 | 12 30 | 12 7 | 0 27 | 15 53 | 2 56 |
| T 25 | 21 5 | 0 30 | 2 30 | 12 16 | 3 0 | 12 27 | 1 38 | 24 28 | 1 11 | 21 4 | 0 17 | 4 54 | 2 42 | 17 24 | 0 18 | 8 22 | 0 55 | 23 46 | 2 8 | 12 31 | 12 6 | 0 24 | 15 54 | 2 56 |
| W26 | 21 15 | 6n16 | 1 16 | 12 46 | 2 54 | 12 51 | 1 37 | 24 26 | 1 11 | 21 4 | 0 17 | 4 53 | 2 42 | 17 25 | 0 18 | 8 22 | 0 55 | 23 46 | 2 8 | 12 31 | 12 5 | 0 20 | 15 55 | 2 56 |
| T 27 | 21 25 | 12 45 | 0n 3 | 13 18 | 2 47 | 13 15 | 1 36 | 24 24 | 1 11 | 21 5 | 0 17 | 4 53 | 2 42 | 17 26 | 0 18 | 8 21 | 0 55 | 23 46 | 2 8 | 12 31 | 12 4 | 0 17 | 15 56 | 2 56 |
| F 28 | 21 35 | 18 31 | 1 21 | 13 50 | 2 40 | 13 39 | 1 35 | 24 21 | 1 11 | 21 6 | 0 18 | 4 52 | 2 42 | 17 27 | 0 18 | 8 21 | 0 55 | 23 46 | 2 8 | 12 31 | 12 3 | 0 14 | 15 57 | 2 56 |
| S 29 | 21 44 | 23 11 | 2 34 | 14 23 | 2 33 | 14 2 | 1 34 | 24 18 | 1 11 | 21 6 | 0 18 | 4 51 | 2 41 | 17 28 | 0 18 | 8 21 | 0 55 | 23 46 | 2 8 | 12 30 | 12 2 | 0 10 | 15 57 | 2 56 |
| S 30 | 21 53 | 26 22 | 3 35 | 14 56 | 2 25 | 14 25 | 1 32 | 24 15 | 1 12 | 21 7 | 0 18 | 4 51 | 2 41 | 17 29 | 0 18 | 8 21 | 0 55 | 23 45 | 2 8 | 12 29 | 12 1 | 0 7 | 15 58 | 2 56 |
| M31 | 22n 2 | 27n52 | 4n23 | 15n30 | 2s16 | 14n48 | 1s31 | 24n12 | 1n12 | 21s 8 | 0s18 | 4s50 | 2n41 | 17n30 | 0s18 | 8s21 | 0s55 | 23n45 | 2n 8 | 12n27 | 12n 0 | 0n 4 | 15n59 | 2s57 |

Julian Day Number = 2337710.5, Delta T = 19.22 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'23, Lahiri = 19°30'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## JUNE 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 41 22 | 11♊12'55 | 14♋ 2 | 21♉20 | 15♉49 | 11♋43 | 26°R45 | 18°R37 | 20♉ 4 | 10♓53 | 22♋12 | 2°R39 | 1♉23 | 5♎14 | 24♉14 | T 1 |
| W 2 | 16 45 19 | 12°10'19 | 27°13 | 23° 0 | 17° 2 | 12°21 | 26♑41 | 18♎35 | 20° 7 | 10°53 | 22°13 | 2♉33 | 1°20 | 5°21 | 24°18 | W 2 |
| T 3 | 16 49 15 | 13° 7'43 | 10♌ 2 | 24°42 | 18°14 | 12°59 | 26°38 | 18°33 | 20°11 | 10°54 | 22°14 | 2°28 | 1°17 | 5°27 | 24°22 | T 3 |
| F 4 | 16 53 12 | 14° 5'05 | 22°31 | 26°28 | 19°27 | 13°38 | 26°34 | 18°32 | 20°14 | 10°54 | 22°16 | 2°24 | 1°14 | 5°34 | 24°27 | F 4 |
| S 5 | 16 57 8 | 15° 2'26 | 4♍42 | 28°16 | 20°39 | 14°16 | 26°30 | 18°30 | 20°17 | 10°54 | 22°17 | 2°22 | 1°10 | 5°41 | 24°31 | S 5 |
| S 6 | 17 1 5 | 15°59'46 | 16°42 | 0♊ 6 | 21°52 | 14°54 | 26°26 | 18°29 | 20°20 | 10°54 | 22°18 | 2°D21 | 1° 7 | 5°47 | 24°35 | S 6 |
| M 7 | 17 5 1 | 16°57'04 | 28°33 | 1°59 | 23° 4 | 15°32 | 26°22 | 18°27 | 20°24 | 10°54 | 22°20 | 2°22 | 1° 4 | 5°54 | 24°40 | M 7 |
| T 8 | 17 8 58 | 17°54'22 | 10♎23 | 3°54 | 24°17 | 16°10 | 26°18 | 18°26 | 20°27 | 10°55 | 22°21 | 2°23 | 1° 1 | 6° 1 | 24°44 | T 8 |
| W 9 | 17 12 55 | 18°51'40 | 22°14 | 5°51 | 25°29 | 16°48 | 26°13 | 18°25 | 20°30 | 10°55 | 22°23 | 2°24 | 0°58 | 6° 7 | 24°48 | W 9 |
| T 10 | 17 16 51 | 19°48'56 | 4♏13 | 7°51 | 26°42 | 17°26 | 26° 8 | 18°24 | 20°33 | 10°55 | 22°24 | 2°R25 | 0°55 | 6°14 | 24°52 | T 10 |
| F 11 | 17 20 48 | 20°46'11 | 16°23 | 9°53 | 27°55 | 18° 4 | 26° 3 | 18°23 | 20°36 | 10°55 | 22°25 | 2°24 | 0°51 | 6°21 | 24°56 | F 11 |
| S 12 | 17 24 44 | 21°43'26 | 28°48 | 11°56 | 29° 7 | 18°42 | 25°58 | 18°22 | 20°39 | 10°R55 | 22°27 | 2°21 | 0°48 | 6°27 | 25° 1 | S 12 |
| S 13 | 17 28 41 | 22°40'40 | 11♐29 | 14° 2 | 0♊20 | 19°20 | 25°53 | 18°21 | 20°42 | 10°55 | 22°28 | 2°15 | 0°45 | 6°34 | 25° 5 | S 13 |
| M14 | 17 32 37 | 23°37'54 | 24°27 | 16° 9 | 1°32 | 19°58 | 25°48 | 18°21 | 20°46 | 10°55 | 22°30 | 2° 8 | 0°42 | 6°40 | 25° 9 | M14 |
| T 15 | 17 36 34 | 24°35'07 | 7♑42 | 18°18 | 2°45 | 20°36 | 25°42 | 18°20 | 20°49 | 10°55 | 22°31 | 2° 0 | 0°39 | 6°47 | 25°13 | T 15 |
| W16 | 17 40 30 | 25°32'20 | 21°13 | 20°27 | 3°58 | 21°14 | 25°37 | 18°20 | 20°52 | 10°55 | 22°33 | 1°51 | 0°36 | 6°54 | 25°17 | W16 |
| T 17 | 17 44 27 | 26°29'33 | 4♒56 | 22°38 | 5°11 | 21°52 | 25°31 | 18°19 | 20°55 | 10°55 | 22°34 | 1°43 | 0°32 | 7° 0 | 25°21 | T 17 |
| F 18 | 17 48 24 | 27°26'45 | 18°49 | 24°49 | 6°23 | 22°30 | 25°25 | 18°19 | 20°58 | 10°54 | 22°36 | 1°36 | 0°29 | 7° 7 | 25°25 | F 18 |
| S 19 | 17 52 20 | 28°23'57 | 2♓49 | 27° 0 | 7°36 | 23° 8 | 25°19 | 18°19 | 21° 1 | 10°54 | 22°37 | 1°31 | 0°26 | 7°14 | 25°29 | S 19 |
| S 20 | 17 56 17 | 29°21'09 | 16°54 | 29°11 | 8°49 | 23°46 | 25°13 | 18°D19 | 21° 3 | 10°54 | 22°39 | 1°29 | 0°23 | 7°20 | 25°33 | S 20 |
| M21 | 18 0 13 | 0♋18'22 | 1♈ 2 | 1♋22 | 10° 2 | 24°24 | 25° 7 | 18°19 | 21° 6 | 10°54 | 22°40 | 1°D28 | 0°20 | 7°27 | 25°37 | M21 |
| T 22 | 18 4 10 | 1°15'34 | 15°12 | 3°33 | 11°15 | 25° 2 | 25° 1 | 18°19 | 21° 9 | 10°54 | 22°42 | 1°29 | 0°16 | 7°34 | 25°41 | T 22 |
| W23 | 18 8 6 | 2°12'46 | 29°21 | 5°43 | 12°28 | 25°40 | 24°54 | 18°19 | 21°12 | 10°53 | 22°43 | 1°R29 | 0°13 | 7°40 | 25°45 | W23 |
| T 24 | 18 12 3 | 3° 9'58 | 13♉30 | 7°52 | 13°41 | 26°18 | 24°47 | 18°19 | 21°15 | 10°53 | 22°45 | 1°29 | 0°10 | 7°47 | 25°49 | T 24 |
| F 25 | 18 15 59 | 4° 7'11 | 27°35 | 9°59 | 14°54 | 26°56 | 24°41 | 18°20 | 21°18 | 10°52 | 22°46 | 1°26 | 0° 7 | 7°54 | 25°52 | F 25 |
| S 26 | 18 19 56 | 5° 4'24 | 11♊33 | 12° 6 | 16° 6 | 27°34 | 24°34 | 18°20 | 21°20 | 10°52 | 22°48 | 1°21 | 0° 4 | 8° 0 | 25°56 | S 26 |
| S 27 | 18 23 53 | 6° 1'36 | 25°22 | 14°11 | 17°19 | 28°11 | 24°27 | 18°21 | 21°23 | 10°52 | 22°50 | 1°13 | 0° 1 | 8° 7 | 26° 0 | S 27 |
| M28 | 18 27 49 | 6°58'49 | 8♋58 | 16°14 | 18°32 | 28°49 | 24°20 | 18°22 | 21°26 | 10°51 | 22°51 | 1° 4 | 29♈57 | 8°14 | 26° 4 | M28 |
| T 29 | 18 31 46 | 7°56'02 | 22°18 | 18°15 | 19°46 | 29°27 | 24°13 | 18°22 | 21°28 | 10°51 | 22°53 | 0°53 | 29°54 | 8°20 | 26° 7 | T 29 |
| W30 | 18 35 42 | 8♋53'14 | 5♌20 | 20♋15 | 20♊59 | 0♌ 5 | 24♑ 6 | 18♎23 | 21♉31 | 10♓50 | 22♋54 | 0♉42 | 29♈51 | 8♎27 | 26♉11 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 22n10 | 27n37 | 4n54 | 16n 5 | 2s 7 | 15n11 | 1s29 | 24n 9 | 1n12 | 21s 9 | 0s18 | 4s50 | 2n41 | 17n31 | 0s17 | 8s21 | 0s55 | 23n45 | 2n 8 | 12n25 | 11n59 | 0n 0 | 16n 0 | 2s57 | |
| W 2 | 22 18 | 25 48 | 5 9 | 16 39 | 1 58 | 15 33 | 1 28 | 24 6 | 1 12 | 21 10 | 0 19 | 4 49 | 2 40 | 17 31 | 0 17 | 8 21 | 0 55 | 23 45 | 2 8 | 12 23 | 11 58 | 0s 3 | 16 1 | 2 57 | |
| T 3 | 22 25 | 22 42 | 5 8 | 17 14 | 1 48 | 15 54 | 1 26 | 24 2 | 1 12 | 21 10 | 0 19 | 4 49 | 2 40 | 17 32 | 0 17 | 8 21 | 0 55 | 23 45 | 2 8 | 12 21 | 11 56 | 0 7 | 16 2 | 2 57 | |
| F 4 | 22 32 | 18 37 | 4 51 | 17 48 | 1 38 | 16 16 | 1 25 | 23 58 | 1 12 | 21 11 | 0 19 | 4 49 | 2 40 | 17 33 | 0 17 | 8 21 | 0 55 | 23 45 | 2 8 | 12 20 | 11 55 | 0 10 | 16 3 | 2 57 | |
| S 5 | 22 38 | 13 52 | 4 22 | 18 23 | 1 28 | 16 37 | 1 23 | 23 54 | 1 12 | 21 12 | 0 19 | 4 48 | 2 40 | 17 34 | 0 17 | 8 20 | 0 55 | 23 44 | 2 8 | 12 19 | 11 54 | 0 13 | 16 4 | 2 57 | |
| S 6 | 22 45 | 8 40 | 3 42 | 18 57 | 1 17 | 16 57 | 1 21 | 23 50 | 1 12 | 21 13 | 0 19 | 4 48 | 2 39 | 17 35 | 0 17 | 8 20 | 0 55 | 23 44 | 2 8 | 12 19 | 11 53 | 0 17 | 16 5 | 2 58 | |
| M 7 | 22 50 | 3 13 | 2 53 | 19 31 | 1 6 | 17 17 | 1 20 | 23 46 | 1 12 | 21 14 | 0 19 | 4 48 | 2 39 | 17 36 | 0 17 | 8 20 | 0 55 | 23 44 | 2 8 | 12 19 | 11 52 | 0 20 | 16 6 | 2 58 | |
| T 8 | 22 56 | 2s20 | 1 56 | 20 4 | 0 55 | 17 37 | 1 18 | 23 41 | 1 12 | 21 15 | 0 20 | 4 47 | 2 39 | 17 37 | 0 17 | 8 20 | 0 55 | 23 44 | 2 8 | 12 19 | 11 51 | 0 23 | 16 6 | 2 58 | |
| W 9 | 23 1 | 7 50 | 0 55 | 20 36 | 0 44 | 17 56 | 1 16 | 23 37 | 1 12 | 21 16 | 0 20 | 4 47 | 2 39 | 17 38 | 0 17 | 8 20 | 0 55 | 23 44 | 2 8 | 12 20 | 11 50 | 0 27 | 16 7 | 2 58 | |
| T 10 | 23 5 | 13 6 | 0s10 | 21 7 | 0 33 | 18 15 | 1 14 | 23 32 | 1 12 | 21 17 | 0 20 | 4 47 | 2 38 | 17 38 | 0 17 | 8 20 | 0 55 | 23 43 | 2 8 | 12 20 | 11 49 | 0 30 | 16 8 | 2 58 | |
| F 11 | 23 10 | 17 58 | 1 15 | 21 37 | 0 22 | 18 33 | 1 12 | 23 27 | 1 12 | 21 18 | 0 20 | 4 47 | 2 38 | 17 39 | 0 17 | 8 20 | 0 55 | 23 43 | 2 8 | 12 20 | 11 48 | 0 33 | 16 9 | 2 58 | |
| S 12 | 23 13 | 22 10 | 2 17 | 22 5 | 0 11 | 18 51 | 1 10 | 23 22 | 1 12 | 21 19 | 0 20 | 4 47 | 2 38 | 17 40 | 0 17 | 8 20 | 0 55 | 23 43 | 2 8 | 12 19 | 11 46 | 0 37 | 16 10 | 2 59 | |
| S 13 | 23 17 | 25 25 | 3 14 | 22 32 | 0n 0 | 19 9 | 1 8 | 23 16 | 1 12 | 21 21 | 0 21 | 4 47 | 2 38 | 17 41 | 0 17 | 8 20 | 0 55 | 23 43 | 2 8 | 12 17 | 11 45 | 0 40 | 16 11 | 2 59 | |
| M14 | 23 20 | 27 24 | 4 3 | 22 57 | 0 11 | 19 26 | 1 6 | 23 11 | 1 12 | 21 22 | 0 21 | 4 47 | 2 37 | 17 42 | 0 17 | 8 20 | 0 56 | 23 43 | 2 8 | 12 14 | 11 44 | 0 44 | 16 11 | 2 59 | |
| T 15 | 23 22 | 27 54 | 4 39 | 23 20 | 0 22 | 19 42 | 1 4 | 23 5 | 1 12 | 21 23 | 0 21 | 4 47 | 2 37 | 17 42 | 0 17 | 8 21 | 0 56 | 23 42 | 2 8 | 12 11 | 11 43 | 0 47 | 16 12 | 2 59 | |
| W16 | 23 24 | 26 45 | 5 0 | 23 40 | 0 32 | 19 58 | 1 2 | 22 59 | 1 12 | 21 24 | 0 21 | 4 47 | 2 37 | 17 43 | 0 17 | 8 21 | 0 56 | 23 42 | 2 8 | 12 8 | 11 42 | 0 50 | 16 13 | 2 59 | |
| T 17 | 23 26 | 24 0 | 5 5 | 23 58 | 0 42 | 20 13 | 1 0 | 22 53 | 1 12 | 21 25 | 0 21 | 4 47 | 2 37 | 17 44 | 0 17 | 8 21 | 0 56 | 23 42 | 2 8 | 12 6 | 11 41 | 0 54 | 16 14 | 2 59 | |
| F 18 | 23 27 | 19 50 | 4 52 | 24 14 | 0 51 | 20 28 | 0 57 | 22 47 | 1 12 | 21 27 | 0 21 | 4 47 | 2 36 | 17 45 | 0 17 | 8 21 | 0 56 | 23 42 | 2 8 | 12 3 | 11 40 | 0 57 | 16 15 | 3 0 | |
| S 19 | 23 28 | 14 33 | 4 22 | 24 27 | 1 0 | 20 43 | 0 55 | 22 41 | 1 12 | 21 28 | 0 22 | 4 47 | 2 36 | 17 46 | 0 17 | 8 21 | 0 56 | 23 42 | 2 9 | 12 1 | 11 39 | 1 0 | 16 15 | 3 0 | |
| S 20 | 23 29 | 8 29 | 3 35 | 24 37 | 1 8 | 20 56 | 0 53 | 22 34 | 1 12 | 21 29 | 0 22 | 4 47 | 2 36 | 17 46 | 0 17 | 8 21 | 0 56 | 23 41 | 2 9 | 12 1 | 11 38 | 1 4 | 16 16 | 3 0 | |
| M21 | 23 29 | 1 58 | 2 35 | 24 44 | 1 16 | 21 10 | 0 51 | 22 27 | 1 12 | 21 31 | 0 22 | 4 48 | 2 36 | 17 47 | 0 17 | 8 21 | 0 56 | 23 41 | 2 9 | 12 0 | 11 36 | 1 7 | 16 17 | 3 0 | |
| T 22 | 23 29 | 4n40 | 1 26 | 24 49 | 1 23 | 21 22 | 0 48 | 22 21 | 1 12 | 21 32 | 0 22 | 4 48 | 2 35 | 17 48 | 0 17 | 8 21 | 0 56 | 23 41 | 2 9 | 12 1 | 11 35 | 1 11 | 16 17 | 3 0 | |
| W23 | 23 28 | 11 5 | 0 11 | 24 50 | 1 29 | 21 34 | 0 46 | 22 14 | 1 12 | 21 33 | 0 22 | 4 48 | 2 35 | 17 49 | 0 17 | 8 21 | 0 56 | 23 41 | 2 9 | 12 1 | 11 34 | 1 14 | 16 18 | 3 1 | |
| T 24 | 23 27 | 16 56 | 1n 4 | 24 49 | 1 35 | 21 46 | 0 44 | 22 6 | 1 12 | 21 35 | 0 22 | 4 49 | 2 35 | 17 49 | 0 17 | 8 22 | 0 56 | 23 40 | 2 9 | 12 1 | 11 33 | 1 17 | 16 19 | 3 1 | |
| F 25 | 23 25 | 21 50 | 2 15 | 24 45 | 1 39 | 21 57 | 0 41 | 21 59 | 1 12 | 21 36 | 0 23 | 4 49 | 2 35 | 17 50 | 0 17 | 8 22 | 0 56 | 23 40 | 2 9 | 12 0 | 11 32 | 1 21 | 16 20 | 3 1 | |
| S 26 | 23 23 | 25 27 | 3 17 | 24 39 | 1 43 | 22 7 | 0 39 | 21 52 | 1 12 | 21 37 | 0 23 | 4 49 | 2 34 | 17 51 | 0 17 | 8 22 | 0 56 | 23 40 | 2 9 | 11 58 | 11 31 | 1 24 | 16 20 | 3 1 | |
| S 27 | 23 21 | 27 30 | 4 6 | 24 30 | 1 47 | 22 16 | 0 36 | 21 44 | 1 12 | 21 39 | 0 23 | 4 50 | 2 34 | 17 52 | 0 17 | 8 22 | 0 56 | 23 40 | 2 9 | 11 55 | 11 30 | 1 28 | 16 21 | 3 1 | |
| M28 | 23 18 | 27 51 | 4 41 | 24 18 | 1 49 | 22 25 | 0 34 | 21 36 | 1 12 | 21 40 | 0 23 | 4 50 | 2 34 | 17 52 | 0 17 | 8 22 | 0 56 | 23 40 | 2 9 | 11 52 | 11 29 | 1 31 | 16 22 | 3 2 | |
| T 29 | 23 15 | 26 33 | 4 59 | 24 4 | 1 51 | 22 34 | 0 31 | 21 28 | 1 12 | 21 41 | 0 23 | 4 51 | 2 34 | 17 53 | 0 17 | 8 23 | 0 56 | 23 39 | 2 9 | 11 48 | 11 27 | 1 34 | 16 22 | 3 2 | |
| W30 | 23n11 | 23n50 | 5n 2 | 23n48 | 1n52 | 22n42 | 0s29 | 21n20 | 1n12 | 21s43 | 0s24 | 4s51 | 2n33 | 17n54 | 0s17 | 8s23 | 0s56 | 23n39 | 2n 9 | 11n44 | 11n26 | 1s38 | 16n23 | 3s 2 | |

Julian Day Number = 2337741.5, Delta T = 19.18 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'27, Lahiri = 19°30'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## JULY 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 39 39 | 9♋50'27 | 18♌ 3 | 22♋13 | 22♊12 | 0♌43 | 23°R59 | 18♎24 | 21♉34 | 10°R50 | 22♋56 | 0°R32 | 29♈48 | 8♎34 | 26♉15 | T 1 |
| F 2 | 18 43 35 | 10°47'39 | 0♍29 | 24° 9 | 23°25 | 1°21 | 23♏51 | 18°25 | 21°36 | 10♓49 | 22°58 | 0♉23 | 29°45 | 8°40 | 26°18 | F 2 |
| S 3 | 18 47 32 | 11°44'51 | 12°39 | 26° 4 | 24°38 | 1°59 | 23°44 | 18°27 | 21°39 | 10°48 | 22°59 | 0°17 | 29°42 | 8°47 | 26°22 | S 3 |
| S 4 | 18 51 29 | 12°42'03 | 24°37 | 27°56 | 25°51 | 2°37 | 23°37 | 18°28 | 21°41 | 10°48 | 23° 1 | 0°14 | 29°38 | 8°54 | 26°25 | S 4 |
| M 5 | 18 55 25 | 13°39'15 | 6♎28 | 29°46 | 27° 4 | 3°15 | 23°29 | 18°29 | 21°44 | 10°47 | 23° 2 | 0°12 | 29°35 | 9° 0 | 26°29 | M 5 |
| T 6 | 18 59 22 | 14°36'27 | 18°17 | 1♌35 | 28°17 | 3°53 | 23°22 | 18°31 | 21°46 | 10°46 | 23° 4 | 0°D12 | 29°32 | 9° 7 | 26°32 | T 6 |
| W 7 | 19 3 18 | 15°33'39 | 0♏ 9 | 3°21 | 29°31 | 4°31 | 23°14 | 18°32 | 21°49 | 10°45 | 23° 6 | 0°R12 | 29°29 | 9°14 | 26°35 | W 7 |
| T 8 | 19 7 15 | 16°30'51 | 12°10 | 5° 5 | 0♋44 | 5° 9 | 23° 6 | 18°34 | 21°51 | 10°45 | 23° 7 | 0°12 | 29°26 | 9°20 | 26°39 | T 8 |
| F 9 | 19 11 11 | 17°28'03 | 24°24 | 6°48 | 1°57 | 5°47 | 22°59 | 18°36 | 21°53 | 10°44 | 23° 9 | 0°10 | 29°22 | 9°27 | 26°42 | F 9 |
| S 10 | 19 15 8 | 18°25'15 | 6♐56 | 8°29 | 3°10 | 6°25 | 22°51 | 18°38 | 21°55 | 10°43 | 23°11 | 0° 5 | 29°19 | 9°34 | 26°45 | S 10 |
| S 11 | 19 19 4 | 19°22'28 | 19°49 | 10° 7 | 4°24 | 7° 3 | 22°43 | 18°40 | 21°58 | 10°42 | 23°12 | 29♈58 | 29°16 | 9°40 | 26°48 | S 11 |
| M12 | 19 23 1 | 20°19'40 | 3♑ 4 | 11°44 | 5°37 | 7°41 | 22°36 | 18°42 | 22° 0 | 10°41 | 23°14 | 29°49 | 29°13 | 9°47 | 26°52 | M12 |
| T 13 | 19 26 58 | 21°16'54 | 16°40 | 13°19 | 6°50 | 8°19 | 22°28 | 18°44 | 22° 2 | 10°40 | 23°15 | 29°38 | 29°10 | 9°54 | 26°55 | T 13 |
| W14 | 19 30 54 | 22°14'07 | 0♒35 | 14°52 | 8° 4 | 8°57 | 22°20 | 18°46 | 22° 4 | 10°39 | 23°17 | 29°26 | 29° 7 | 10° 0 | 26°58 | W14 |
| T 15 | 19 34 51 | 23°11'21 | 14°44 | 16°23 | 9°17 | 9°34 | 22°12 | 18°49 | 22° 6 | 10°39 | 23°19 | 29°15 | 29° 3 | 10° 7 | 27° 1 | T 15 |
| F 16 | 19 38 47 | 24° 8'36 | 29° 2 | 17°51 | 10°30 | 10°12 | 22° 5 | 18°51 | 22° 8 | 10°38 | 23°20 | 29° 6 | 29° 0 | 10°13 | 27° 4 | F 16 |
| S 17 | 19 42 44 | 25° 5'51 | 13♓24 | 19°18 | 11°44 | 10°50 | 21°57 | 18°54 | 22°10 | 10°37 | 23°22 | 28°59 | 28°57 | 10°20 | 27° 7 | S 17 |
| S 18 | 19 46 40 | 26° 3'07 | 27°45 | 20°43 | 12°57 | 11°28 | 21°49 | 18°56 | 22°12 | 10°36 | 23°24 | 28°55 | 28°54 | 10°27 | 27° 9 | S 18 |
| M19 | 19 50 37 | 27° 0'24 | 12♈ 1 | 22° 6 | 14°11 | 12° 6 | 21°41 | 18°59 | 22°14 | 10°34 | 23°25 | 28°53 | 28°51 | 10°33 | 27°12 | M19 |
| T 20 | 19 54 33 | 27°57'41 | 26°11 | 23°27 | 15°24 | 12°44 | 21°34 | 19° 2 | 22°16 | 10°33 | 23°27 | 28°53 | 28°48 | 10°40 | 27°15 | T 20 |
| W21 | 19 58 30 | 28°55'00 | 10♉12 | 24°45 | 16°38 | 13°22 | 21°26 | 19° 5 | 22°18 | 10°32 | 23°29 | 28°52 | 28°44 | 10°47 | 27°18 | W21 |
| T 22 | 20 2 27 | 29°52'20 | 24° 5 | 26° 2 | 17°52 | 14° 0 | 21°18 | 19° 8 | 22°20 | 10°31 | 23°30 | 28°51 | 28°41 | 10°53 | 27°20 | T 22 |
| F 23 | 20 6 23 | 0♌49'41 | 7♊50 | 27°16 | 19° 5 | 14°38 | 21°11 | 19°11 | 22°21 | 10°30 | 23°32 | 28°48 | 28°38 | 11° 0 | 27°23 | F 23 |
| S 24 | 20 10 20 | 1°47'03 | 21°25 | 28°28 | 20°19 | 15°16 | 21° 3 | 19°14 | 22°23 | 10°29 | 23°34 | 28°42 | 28°35 | 11° 7 | 27°26 | S 24 |
| S 25 | 20 14 16 | 2°44'27 | 4♋50 | 29°38 | 21°33 | 15°54 | 20°56 | 19°17 | 22°25 | 10°28 | 23°35 | 28°33 | 28°32 | 11°13 | 27°28 | S 25 |
| M26 | 20 18 13 | 3°41'51 | 18° 3 | 0♍45 | 22°46 | 16°32 | 20°49 | 19°20 | 22°26 | 10°26 | 23°37 | 28°22 | 28°28 | 11°20 | 27°31 | M26 |
| T 27 | 20 22 9 | 4°39'16 | 1♌ 3 | 1°50 | 24° 0 | 17°10 | 20°41 | 19°24 | 22°28 | 10°25 | 23°38 | 28° 9 | 28°25 | 11°27 | 27°33 | T 27 |
| W28 | 20 26 6 | 5°36'41 | 13°50 | 2°52 | 25°14 | 17°48 | 20°34 | 19°27 | 22°30 | 10°24 | 23°40 | 27°56 | 28°22 | 11°33 | 27°35 | W28 |
| T 29 | 20 30 2 | 6°34'08 | 26°21 | 3°51 | 26°27 | 18°26 | 20°27 | 19°31 | 22°31 | 10°23 | 23°42 | 27°45 | 28°19 | 11°40 | 27°38 | T 29 |
| F 30 | 20 33 59 | 7°31'36 | 8♍38 | 4°48 | 27°41 | 19° 4 | 20°20 | 19°35 | 22°32 | 10°21 | 23°43 | 27°35 | 28°16 | 11°47 | 27°40 | F 30 |
| S 31 | 20 37 56 | 8♌29'04 | 20♍43 | 5♍41 | 28♋55 | 19♌42 | 20♏13 | 19♎38 | 22♉34 | 10♓20 | 23♋45 | 27♈27 | 28♈13 | 11♎53 | 27♉42 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 7 | 20n 1 | 4n49 | 23n30 | 1n53 | 22n49 | 0s26 | 21n12 | 1n12 | 21s44 | 0s24 | 4s52 | 2n33 | 17n54 | 0s17 | 8s23 | 0s56 | 23n39 | 2n 9 | 11n41 | 11n25 | 1s41 | 16n23 | 3s 2 |
| F 2 | 23 3 | 15 25 | 4 22 | 23 10 | 1 52 | 22 55 | 0 24 | 21 3 | 1 12 | 21 46 | 0 24 | 4 53 | 2 33 | 17 55 | 0 18 | 8 23 | 0 56 | 23 39 | 2 9 | 11 38 | 11 24 | 1 44 | 16 24 | 3 3 |
| S 3 | 22 58 | 10 17 | 3 45 | 22 48 | 1 52 | 23 1 | 0 21 | 20 55 | 1 11 | 21 47 | 0 24 | 4 53 | 2 33 | 17 56 | 0 18 | 8 24 | 0 56 | 23 39 | 2 9 | 11 36 | 11 23 | 1 48 | 16 25 | 3 3 |
| S 4 | 22 52 | 4 51 | 2 57 | 22 24 | 1 50 | 23 6 | 0 19 | 20 46 | 1 11 | 21 49 | 0 24 | 4 54 | 2 32 | 17 56 | 0 18 | 8 24 | 0 56 | 23 38 | 2 9 | 11 34 | 11 22 | 1 51 | 16 25 | 3 3 |
| M 5 | 22 47 | 0s42 | 2 3 | 21 59 | 1 48 | 23 11 | 0 16 | 20 37 | 1 11 | 21 50 | 0 24 | 4 55 | 2 32 | 17 57 | 0 18 | 8 24 | 0 56 | 23 38 | 2 9 | 11 34 | 11 21 | 1 55 | 16 26 | 3 3 |
| T 6 | 22 41 | 6 13 | 1 3 | 21 33 | 1 45 | 23 14 | 0 14 | 20 28 | 1 11 | 21 52 | 0 24 | 4 56 | 2 32 | 17 57 | 0 18 | 8 25 | 0 56 | 23 38 | 2 9 | 11 34 | 11 20 | 1 58 | 16 26 | 3 4 |
| W 7 | 22 34 | 11 33 | 0 0 | 21 5 | 1 42 | 23 17 | 0 11 | 20 19 | 1 11 | 21 53 | 0 25 | 4 57 | 2 31 | 17 58 | 0 18 | 8 25 | 0 56 | 23 38 | 2 9 | 11 34 | 11 19 | 2 1 | 16 27 | 3 4 |
| T 8 | 22 28 | 16 31 | 1s 3 | 20 36 | 1 38 | 23 20 | 0 9 | 20 10 | 1 11 | 21 54 | 0 25 | 4 58 | 2 31 | 17 59 | 0 18 | 8 25 | 0 56 | 23 37 | 2 9 | 11 34 | 11 17 | 2 5 | 16 27 | 3 4 |
| F 9 | 22 20 | 20 55 | 2 5 | 20 6 | 1 33 | 23 22 | 0 6 | 20 0 | 1 11 | 21 56 | 0 25 | 4 58 | 2 31 | 17 59 | 0 18 | 8 26 | 0 56 | 23 37 | 2 10 | 11 33 | 11 16 | 2 8 | 16 28 | 3 4 |
| S 10 | 22 13 | 24 29 | 3 2 | 19 36 | 1 28 | 23 23 | 0 4 | 19 51 | 1 11 | 21 57 | 0 25 | 4 59 | 2 31 | 18 0 | 0 18 | 8 26 | 0 57 | 23 37 | 2 10 | 11 31 | 11 15 | 2 11 | 16 28 | 3 5 |
| S 11 | 22 5 | 26 55 | 3 51 | 19 4 | 1 23 | 23 23 | 0 1 | 19 41 | 1 11 | 21 59 | 0 25 | 5 0 | 2 30 | 18 0 | 0 18 | 8 26 | 0 57 | 23 37 | 2 10 | 11 29 | 11 14 | 2 15 | 16 29 | 3 5 |
| M12 | 21 56 | 27 56 | 4 29 | 18 31 | 1 17 | 23 23 | 0n 1 | 19 31 | 1 11 | 22 0 | 0 25 | 5 1 | 2 30 | 18 1 | 0 18 | 8 27 | 0 57 | 23 37 | 2 10 | 11 26 | 11 13 | 2 18 | 16 29 | 3 5 |
| T 13 | 21 48 | 27 17 | 4 53 | 17 58 | 1 10 | 23 22 | 0 4 | 19 22 | 1 11 | 22 2 | 0 26 | 5 2 | 2 30 | 18 2 | 0 18 | 8 27 | 0 57 | 23 36 | 2 10 | 11 22 | 11 12 | 2 22 | 16 30 | 3 5 |
| W14 | 21 39 | 24 57 | 5 1 | 17 25 | 1 3 | 23 20 | 0 6 | 19 11 | 1 11 | 22 3 | 0 26 | 5 4 | 2 30 | 18 2 | 0 18 | 8 27 | 0 57 | 23 36 | 2 10 | 11 18 | 11 11 | 2 25 | 16 30 | 3 6 |
| T 15 | 21 29 | 21 3 | 4 50 | 16 51 | 0 56 | 23 18 | 0 9 | 19 1 | 1 11 | 22 4 | 0 26 | 5 5 | 2 29 | 18 3 | 0 18 | 8 28 | 0 57 | 23 36 | 2 10 | 11 14 | 11 10 | 2 28 | 16 31 | 3 6 |
| F 16 | 21 19 | 15 54 | 4 21 | 16 16 | 0 48 | 23 15 | 0 11 | 18 51 | 1 11 | 22 6 | 0 26 | 5 6 | 2 29 | 18 3 | 0 18 | 8 28 | 0 57 | 23 36 | 2 10 | 11 10 | 11 8 | 2 32 | 16 31 | 3 6 |
| S 17 | 21 9 | 9 51 | 3 36 | 15 42 | 0 40 | 23 11 | 0 13 | 18 40 | 1 10 | 22 7 | 0 26 | 5 7 | 2 29 | 18 4 | 0 18 | 8 29 | 0 57 | 23 35 | 2 10 | 11 8 | 11 7 | 2 35 | 16 31 | 3 6 |
| S 18 | 20 59 | 3 17 | 2 37 | 15 7 | 0 32 | 23 7 | 0 16 | 18 30 | 1 10 | 22 9 | 0 26 | 5 8 | 2 29 | 18 4 | 0 18 | 8 29 | 0 57 | 23 35 | 2 10 | 11 6 | 11 6 | 2 39 | 16 32 | 3 7 |
| M19 | 20 48 | 3n25 | 1 28 | 14 32 | 0 23 | 23 2 | 0 18 | 18 19 | 1 10 | 22 10 | 0 26 | 5 10 | 2 28 | 18 5 | 0 18 | 8 29 | 0 57 | 23 35 | 2 10 | 11 6 | 11 5 | 2 42 | 16 32 | 3 7 |
| T 20 | 20 36 | 9 54 | 0 14 | 13 57 | 0 14 | 22 56 | 0 21 | 18 8 | 1 10 | 22 11 | 0 26 | 5 11 | 2 28 | 18 5 | 0 18 | 8 30 | 0 57 | 23 35 | 2 10 | 11 6 | 11 4 | 2 45 | 16 33 | 3 7 |
| W21 | 20 25 | 15 51 | 1n 0 | 13 22 | 0 4 | 22 49 | 0 23 | 17 57 | 1 10 | 22 13 | 0 27 | 5 12 | 2 28 | 18 6 | 0 18 | 8 30 | 0 57 | 23 35 | 2 10 | 11 6 | 11 3 | 2 49 | 16 33 | 3 7 |
| T 22 | 20 13 | 20 55 | 2 9 | 12 47 | 0s 5 | 22 42 | 0 25 | 17 46 | 1 10 | 22 14 | 0 27 | 5 13 | 2 28 | 18 6 | 0 18 | 8 31 | 0 57 | 23 34 | 2 10 | 11 5 | 11 2 | 2 52 | 16 33 | 3 8 |
| F 23 | 20 1 | 24 47 | 3 10 | 12 12 | 0 15 | 22 35 | 0 28 | 17 35 | 1 10 | 22 15 | 0 27 | 5 15 | 2 27 | 18 7 | 0 18 | 8 31 | 0 57 | 23 34 | 2 10 | 11 4 | 11 0 | 2 55 | 16 34 | 3 8 |
| S 24 | 19 48 | 27 11 | 4 0 | 11 38 | 0 26 | 22 26 | 0 30 | 17 24 | 1 10 | 22 16 | 0 27 | 5 16 | 2 27 | 18 7 | 0 18 | 8 32 | 0 57 | 23 34 | 2 11 | 11 2 | 10 59 | 2 59 | 16 34 | 3 8 |
| S 25 | 19 35 | 27 59 | 4 35 | 11 4 | 0 36 | 22 17 | 0 32 | 17 12 | 1 10 | 22 18 | 0 27 | 5 18 | 2 27 | 18 7 | 0 18 | 8 32 | 0 57 | 23 34 | 2 11 | 10 59 | 10 58 | 3 2 | 16 34 | 3 9 |
| M26 | 19 22 | 27 9 | 4 56 | 10 30 | 0 47 | 22 7 | 0 34 | 17 1 | 1 10 | 22 19 | 0 27 | 5 19 | 2 27 | 18 8 | 0 18 | 8 33 | 0 57 | 23 34 | 2 11 | 10 55 | 10 57 | 3 6 | 16 34 | 3 9 |
| T 27 | 19 8 | 24 50 | 5 0 | 9 57 | 0 58 | 21 57 | 0 37 | 16 49 | 1 9 | 22 20 | 0 27 | 5 21 | 2 26 | 18 8 | 0 18 | 8 33 | 0 57 | 23 33 | 2 11 | 10 50 | 10 56 | 3 9 | 16 35 | 3 9 |
| W28 | 18 54 | 21 19 | 4 49 | 9 24 | 1 9 | 21 46 | 0 39 | 16 37 | 1 9 | 22 21 | 0 27 | 5 22 | 2 26 | 18 9 | 0 18 | 8 34 | 0 57 | 23 33 | 2 11 | 10 46 | 10 55 | 3 12 | 16 35 | 3 9 |
| T 29 | 18 40 | 16 54 | 4 24 | 8 52 | 1 20 | 21 34 | 0 41 | 16 26 | 1 9 | 22 23 | 0 28 | 5 24 | 2 26 | 18 9 | 0 18 | 8 34 | 0 57 | 23 33 | 2 11 | 10 41 | 10 54 | 3 16 | 16 35 | 3 10 |
| F 30 | 18 25 | 11 51 | 3 48 | 8 21 | 1 32 | 21 22 | 0 43 | 16 14 | 1 9 | 22 24 | 0 28 | 5 25 | 2 26 | 18 9 | 0 18 | 8 35 | 0 57 | 23 33 | 2 11 | 10 38 | 10 53 | 3 19 | 16 35 | 3 10 |
| S 31 | 18n10 | 6n27 | 3n 1 | 7n51 | 1s43 | 21n 9 | 0n45 | 16n 1 | 1n 9 | 22s25 | 0s28 | 5s27 | 2n25 | 18n10 | 0s18 | 8s35 | 0s57 | 23n33 | 2n11 | 10n35 | 10n51 | 3s22 | 16n35 | 3s10 |

Julian Day Number = 2337771.5, Delta T = 19.14 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'31, Lahiri = 19°30'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## AUGUST 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 41 52 | 9♌26'33 | 2♎38 | 6♍31 | 0♌ 9 | 20♌20 | 20°R 6 | 19♎42 | 22♉35 | 10°R19 | 23♋46 | 27°R22 | 28♈ 9 | 12♎ 0 | 27♉44 | S 1 |
| M 2 | 20 45 49 | 10°24'03 | 14°27 | 7°19 | 1°23 | 20°58 | 19♏59 | 19°46 | 22°37 | 10♓17 | 23°48 | 27♈20 | 28° 6 | 12° 7 | 27°46 | M 2 |
| T 3 | 20 49 45 | 11°21'34 | 26°15 | 8° 2 | 2°37 | 21°36 | 19°52 | 19°50 | 22°38 | 10°16 | 23°50 | 27°D19 | 28° 3 | 12°13 | 27°48 | T 3 |
| W 4 | 20 53 42 | 12°19'05 | 8♏ 6 | 8°42 | 3°51 | 22°14 | 19°45 | 19°54 | 22°39 | 10°14 | 23°51 | 27°R20 | 28° 0 | 12°20 | 27°50 | W 4 |
| T 5 | 20 57 38 | 13°16'38 | 20° 6 | 9°18 | 5° 5 | 22°52 | 19°39 | 19°58 | 22°40 | 10°13 | 23°53 | 27°19 | 27°57 | 12°27 | 27°52 | T 5 |
| F 6 | 21 1 35 | 14°14'11 | 2♐20 | 9°51 | 6°19 | 23°30 | 19°32 | 20° 2 | 22°41 | 10°12 | 23°54 | 27°18 | 27°53 | 12°33 | 27°54 | F 6 |
| S 7 | 21 5 31 | 15°11'46 | 14°54 | 10°19 | 7°32 | 24° 8 | 19°26 | 20° 7 | 22°42 | 10°10 | 23°56 | 27°15 | 27°50 | 12°40 | 27°56 | S 7 |
| S 8 | 21 9 28 | 16° 9'21 | 27°52 | 10°42 | 8°47 | 24°46 | 19°20 | 20°11 | 22°43 | 10° 9 | 23°57 | 27° 9 | 27°47 | 12°46 | 27°57 | S 8 |
| M 9 | 21 13 25 | 17° 6'58 | 11♑15 | 11° 1 | 10° 1 | 25°25 | 19°14 | 20°16 | 22°44 | 10° 7 | 23°59 | 27° 1 | 27°44 | 12°53 | 27°59 | M 9 |
| T 10 | 21 17 21 | 18° 4'35 | 25° 3 | 11°15 | 11°15 | 26° 3 | 19° 8 | 20°20 | 22°45 | 10° 6 | 24° 0 | 26°51 | 27°41 | 13° 0 | 28° 1 | T 10 |
| W11 | 21 21 18 | 19° 2'14 | 9♒16 | 11°24 | 12°29 | 26°41 | 19° 2 | 20°25 | 22°46 | 10° 4 | 24° 2 | 26°41 | 27°38 | 13° 6 | 28° 2 | W11 |
| T 12 | 21 25 14 | 19°59'53 | 23°47 | 11°R27 | 13°43 | 27°19 | 18°57 | 20°29 | 22°47 | 10° 3 | 24° 3 | 26°31 | 27°34 | 13°13 | 28° 4 | T 12 |
| F 13 | 21 29 11 | 20°57'35 | 8♓30 | 11°25 | 14°57 | 27°57 | 18°51 | 20°34 | 22°48 | 10° 1 | 24° 5 | 26°22 | 27°31 | 13°20 | 28° 5 | F 13 |
| S 14 | 21 33 7 | 21°55'17 | 23°16 | 11°18 | 16°11 | 28°35 | 18°46 | 20°39 | 22°48 | 10° 0 | 24° 6 | 26°16 | 27°28 | 13°26 | 28° 6 | S 14 |
| S 15 | 21 37 4 | 22°53'01 | 7♈59 | 11° 5 | 17°25 | 29°13 | 18°40 | 20°44 | 22°49 | 9°58 | 24° 8 | 26°13 | 27°25 | 13°33 | 28° 8 | S 15 |
| M16 | 21 41 0 | 23°50'47 | 22°33 | 10°46 | 18°39 | 29°51 | 18°35 | 20°49 | 22°50 | 9°57 | 24° 9 | 26°D11 | 27°22 | 13°40 | 28° 9 | M16 |
| T 17 | 21 44 57 | 24°48'34 | 6♉53 | 10°21 | 19°54 | 0♍29 | 18°30 | 20°54 | 22°50 | 9°55 | 24°11 | 26°12 | 27°19 | 13°46 | 28°10 | T 17 |
| W18 | 21 48 54 | 25°46'23 | 20°57 | 9°50 | 21° 8 | 1° 8 | 18°26 | 20°59 | 22°51 | 9°53 | 24°12 | 26°R12 | 27°15 | 13°53 | 28°11 | W18 |
| T 19 | 21 52 50 | 26°44'15 | 4♊46 | 9°15 | 22°22 | 1°46 | 18°21 | 21° 4 | 22°51 | 9°52 | 24°14 | 26°12 | 27°12 | 14° 0 | 28°12 | T 19 |
| F 20 | 21 56 47 | 27°42'08 | 18°19 | 8°34 | 23°36 | 2°24 | 18°17 | 21° 9 | 22°52 | 9°50 | 24°15 | 26°10 | 27° 9 | 14° 6 | 28°13 | F 20 |
| S 21 | 22 0 43 | 28°40'02 | 1♋38 | 7°48 | 24°51 | 3° 2 | 18°12 | 21°15 | 22°52 | 9°49 | 24°17 | 26° 6 | 27° 6 | 14°13 | 28°14 | S 21 |
| S 22 | 22 4 40 | 29°37'59 | 14°44 | 6°59 | 26° 5 | 3°40 | 18° 8 | 21°20 | 22°52 | 9°47 | 24°18 | 25°59 | 27° 3 | 14°20 | 28°15 | S 22 |
| M23 | 22 8 36 | 0♍35'57 | 27°36 | 6° 6 | 27°19 | 4°19 | 18° 4 | 21°25 | 22°53 | 9°45 | 24°19 | 25°51 | 26°59 | 14°26 | 28°15 | M23 |
| T 24 | 22 12 33 | 1°33'57 | 10♌17 | 5°11 | 28°34 | 4°57 | 18° 0 | 21°31 | 22°53 | 9°44 | 24°21 | 25°41 | 26°56 | 14°33 | 28°16 | T 24 |
| W25 | 22 16 29 | 2°31'59 | 22°45 | 4°15 | 29°48 | 5°35 | 17°57 | 21°36 | 22°53 | 9°42 | 24°22 | 25°32 | 26°53 | 14°40 | 28°17 | W25 |
| T 26 | 22 20 26 | 3°30'02 | 5♍ 2 | 3°19 | 1♍ 3 | 6°13 | 17°53 | 21°42 | 22°53 | 9°40 | 24°23 | 25°22 | 26°50 | 14°46 | 28°17 | T 26 |
| F 27 | 22 24 23 | 4°28'07 | 17° 9 | 2°24 | 2°17 | 6°52 | 17°50 | 21°47 | 22°53 | 9°39 | 24°25 | 25°15 | 26°47 | 14°53 | 28°18 | F 27 |
| S 28 | 22 28 19 | 5°26'13 | 29° 7 | 1°31 | 3°32 | 7°30 | 17°47 | 21°53 | 22°R53 | 9°37 | 24°26 | 25° 9 | 26°44 | 14°59 | 28°18 | S 28 |
| S 29 | 22 32 16 | 6°24'21 | 10♎57 | 0°42 | 4°46 | 8° 8 | 17°44 | 21°59 | 22°53 | 9°36 | 24°27 | 25° 6 | 26°40 | 15° 6 | 28°19 | S 29 |
| M30 | 22 36 12 | 7°22'31 | 22°44 | 29♌57 | 6° 0 | 8°47 | 17°42 | 22° 5 | 22°53 | 9°34 | 24°29 | 25°D 5 | 26°37 | 15°13 | 28°19 | M30 |
| T 31 | 22 40 9 | 8♍20'42 | 4♏30 | 29♌18 | 7♍15 | 9♍25 | 17♏39 | 22♎11 | 22♉53 | 9♓32 | 24♋30 | 25♈ 5 | 26♈34 | 15♎19 | 28♉19 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17n55 | 0n53 | 2n 7 | 7n21 | 1s55 | 20n55 | 0n47 | 15n49 | 1n 9 | 22s26 | 0s28 | 5s29 | 2n25 | 18n10 | 0s18 | 8s36 | 0s57 | 23n32 | 2n11 | 10n33 | 10n50 | 3s26 | 16n36 | 3s11 |
| M 2 | 17 40 | 4s40 | 1 8 | 6 53 | 2 6 | 20 41 | 0 49 | 15 37 | 1 9 | 22 27 | 0 28 | 5 30 | 2 25 | 18 10 | 0 18 | 8 36 | 0 57 | 23 32 | 2 11 | 10 33 | 10 49 | 3 29 | 16 36 | 3 11 |
| T 3 | 17 24 | 10 4 | 0 6 | 6 26 | 2 18 | 20 26 | 0 51 | 15 25 | 1 9 | 22 28 | 0 28 | 5 32 | 2 25 | 18 11 | 0 18 | 8 37 | 0 57 | 23 32 | 2 11 | 10 32 | 10 48 | 3 33 | 16 36 | 3 11 |
| W 4 | 17 8 | 15 8 | 0s57 | 6 0 | 2 30 | 20 11 | 0 53 | 15 12 | 1 8 | 22 29 | 0 28 | 5 34 | 2 25 | 18 11 | 0 18 | 8 38 | 0 57 | 23 32 | 2 11 | 10 32 | 10 47 | 3 36 | 16 36 | 3 11 |
| T 5 | 16 52 | 19 42 | 1 58 | 5 36 | 2 41 | 19 55 | 0 55 | 14 59 | 1 8 | 22 30 | 0 28 | 5 36 | 2 24 | 18 11 | 0 18 | 8 38 | 0 57 | 23 32 | 2 11 | 10 32 | 10 46 | 3 39 | 16 36 | 3 12 |
| F 6 | 16 35 | 23 31 | 2 55 | 5 14 | 2 53 | 19 38 | 0 56 | 14 47 | 1 8 | 22 31 | 0 28 | 5 37 | 2 24 | 18 11 | 0 18 | 8 39 | 0 57 | 23 31 | 2 12 | 10 32 | 10 45 | 3 43 | 16 36 | 3 12 |
| S 7 | 16 18 | 26 21 | 3 45 | 4 53 | 3 4 | 19 21 | 0 58 | 14 34 | 1 8 | 22 32 | 0 28 | 5 39 | 2 24 | 18 12 | 0 18 | 8 39 | 0 57 | 23 31 | 2 12 | 10 31 | 10 43 | 3 46 | 16 36 | 3 12 |
| S 8 | 16 1 | 27 52 | 4 25 | 4 33 | 3 15 | 19 4 | 1 0 | 14 21 | 1 8 | 22 33 | 0 29 | 5 41 | 2 24 | 18 12 | 0 18 | 8 40 | 0 57 | 23 31 | 2 12 | 10 28 | 10 42 | 3 49 | 16 37 | 3 13 |
| M 9 | 15 44 | 27 51 | 4 52 | 4 16 | 3 26 | 18 45 | 1 2 | 14 8 | 1 8 | 22 34 | 0 29 | 5 43 | 2 24 | 18 12 | 0 18 | 8 40 | 0 57 | 23 31 | 2 12 | 10 26 | 10 41 | 3 53 | 16 37 | 3 13 |
| T 10 | 15 26 | 26 7 | 5 3 | 4 1 | 3 36 | 18 27 | 1 3 | 13 55 | 1 8 | 22 35 | 0 29 | 5 45 | 2 23 | 18 12 | 0 18 | 8 41 | 0 57 | 23 31 | 2 12 | 10 22 | 10 40 | 3 56 | 16 37 | 3 13 |
| W11 | 15 9 | 22 43 | 4 56 | 3 49 | 3 46 | 18 7 | 1 5 | 13 42 | 1 7 | 22 36 | 0 29 | 5 47 | 2 23 | 18 13 | 0 18 | 8 42 | 0 57 | 23 30 | 2 12 | 10 18 | 10 39 | 4 0 | 16 37 | 3 14 |
| T 12 | 14 50 | 17 51 | 4 30 | 3 39 | 3 56 | 17 48 | 1 6 | 13 29 | 1 7 | 22 37 | 0 29 | 5 49 | 2 23 | 18 13 | 0 18 | 8 42 | 0 57 | 23 30 | 2 12 | 10 15 | 10 38 | 4 3 | 16 37 | 3 14 |
| F 13 | 14 32 | 11 53 | 3 45 | 3 31 | 4 4 | 17 27 | 1 8 | 13 15 | 1 7 | 22 38 | 0 29 | 5 51 | 2 23 | 18 13 | 0 18 | 8 43 | 0 57 | 23 30 | 2 12 | 10 12 | 10 37 | 4 6 | 16 37 | 3 14 |
| S 14 | 14 14 | 5 13 | 2 46 | 3 27 | 4 12 | 17 7 | 1 9 | 13 2 | 1 7 | 22 39 | 0 29 | 5 53 | 2 22 | 18 13 | 0 18 | 8 43 | 0 58 | 23 30 | 2 12 | 10 9 | 10 35 | 4 10 | 16 37 | 3 15 |
| S 15 | 13 55 | 1n43 | 1 36 | 3 25 | 4 19 | 16 45 | 1 10 | 12 48 | 1 7 | 22 40 | 0 29 | 5 55 | 2 22 | 18 13 | 0 18 | 8 44 | 0 58 | 23 30 | 2 12 | 10 8 | 10 34 | 4 13 | 16 37 | 3 15 |
| M16 | 13 36 | 8 29 | 0 19 | 3 27 | 4 26 | 16 24 | 1 12 | 12 35 | 1 7 | 22 40 | 0 29 | 5 57 | 2 22 | 18 14 | 0 18 | 8 45 | 0 58 | 23 30 | 2 12 | 10 8 | 10 33 | 4 16 | 16 37 | 3 15 |
| T 17 | 13 17 | 14 44 | 0n57 | 3 32 | 4 30 | 16 2 | 1 13 | 12 21 | 1 6 | 22 41 | 0 29 | 5 59 | 2 22 | 18 14 | 0 18 | 8 45 | 0 58 | 23 29 | 2 13 | 10 8 | 10 32 | 4 20 | 16 37 | 3 16 |
| W18 | 12 57 | 20 5 | 2 8 | 3 40 | 4 34 | 15 39 | 1 14 | 12 7 | 1 6 | 22 42 | 0 29 | 6 1 | 2 22 | 18 14 | 0 18 | 8 46 | 0 58 | 23 29 | 2 13 | 10 8 | 10 31 | 4 23 | 16 36 | 3 16 |
| T 19 | 12 37 | 24 15 | 3 11 | 3 51 | 4 36 | 15 16 | 1 15 | 11 54 | 1 6 | 22 42 | 0 29 | 6 3 | 2 22 | 18 14 | 0 18 | 8 46 | 0 58 | 23 29 | 2 13 | 10 8 | 10 30 | 4 27 | 16 36 | 3 16 |
| F 20 | 12 18 | 26 59 | 4 2 | 4 6 | 4 36 | 14 52 | 1 16 | 11 40 | 1 6 | 22 43 | 0 29 | 6 5 | 2 21 | 18 14 | 0 18 | 8 47 | 0 58 | 23 29 | 2 13 | 10 7 | 10 29 | 4 30 | 16 36 | 3 16 |
| S 21 | 11 58 | 28 7 | 4 38 | 4 24 | 4 35 | 14 29 | 1 17 | 11 26 | 1 6 | 22 44 | 0 30 | 6 7 | 2 21 | 18 14 | 0 18 | 8 48 | 0 58 | 23 29 | 2 13 | 10 6 | 10 27 | 4 33 | 16 36 | 3 17 |
| S 22 | 11 37 | 27 38 | 5 0 | 4 45 | 4 32 | 14 4 | 1 18 | 11 12 | 1 5 | 22 44 | 0 30 | 6 9 | 2 21 | 18 14 | 0 18 | 8 48 | 0 58 | 23 29 | 2 13 | 10 3 | 10 26 | 4 37 | 16 36 | 3 17 |
| M23 | 11 17 | 25 40 | 5 5 | 5 9 | 4 27 | 13 40 | 1 19 | 10 58 | 1 5 | 22 45 | 0 30 | 6 12 | 2 21 | 18 14 | 0 18 | 8 49 | 0 58 | 23 28 | 2 13 | 10 0 | 10 25 | 4 40 | 16 36 | 3 17 |
| T 24 | 10 56 | 22 26 | 4 56 | 5 35 | 4 20 | 13 15 | 1 20 | 10 43 | 1 5 | 22 46 | 0 30 | 6 14 | 2 21 | 18 14 | 0 18 | 8 50 | 0 58 | 23 28 | 2 13 | 9 57 | 10 24 | 4 43 | 16 36 | 3 18 |
| W25 | 10 35 | 18 14 | 4 32 | 6 4 | 4 11 | 12 49 | 1 21 | 10 29 | 1 5 | 22 46 | 0 30 | 6 16 | 2 20 | 18 14 | 0 18 | 8 50 | 0 58 | 23 28 | 2 13 | 9 53 | 10 23 | 4 47 | 16 36 | 3 18 |
| T 26 | 10 14 | 13 20 | 3 56 | 6 34 | 4 1 | 12 23 | 1 21 | 10 15 | 1 5 | 22 47 | 0 30 | 6 18 | 2 20 | 18 14 | 0 18 | 8 51 | 0 58 | 23 28 | 2 13 | 9 50 | 10 22 | 4 50 | 16 35 | 3 18 |
| F 27 | 9 53 | 8 0 | 3 10 | 7 5 | 3 48 | 11 57 | 1 22 | 10 0 | 1 5 | 22 47 | 0 30 | 6 20 | 2 20 | 18 14 | 0 18 | 8 51 | 0 58 | 23 28 | 2 14 | 9 47 | 10 21 | 4 54 | 16 35 | 3 19 |
| S 28 | 9 32 | 2 26 | 2 15 | 7 37 | 3 34 | 11 31 | 1 23 | 9 46 | 1 4 | 22 48 | 0 30 | 6 23 | 2 20 | 18 14 | 0 18 | 8 52 | 0 58 | 23 28 | 2 14 | 9 45 | 10 19 | 4 57 | 16 35 | 3 19 |
| S 29 | 9 11 | 3s11 | 1 16 | 8 9 | 3 19 | 11 4 | 1 23 | 9 31 | 1 4 | 22 48 | 0 30 | 6 25 | 2 20 | 18 14 | 0 18 | 8 53 | 0 58 | 23 28 | 2 14 | 9 44 | 10 18 | 5 0 | 16 35 | 3 19 |
| M30 | 8 49 | 8 40 | 0 13 | 8 40 | 3 2 | 10 37 | 1 23 | 9 17 | 1 4 | 22 48 | 0 30 | 6 27 | 2 20 | 18 14 | 0 18 | 8 53 | 0 58 | 23 27 | 2 14 | 9 43 | 10 17 | 5 4 | 16 34 | 3 20 |
| T 31 | 8n27 | 13s51 | 0s51 | 9n11 | 2s44 | 10n10 | 1n24 | 9n 2 | 1n 4 | 22s49 | 0s30 | 6s30 | 2n19 | 18n14 | 0s18 | 8s54 | 0s58 | 23n27 | 2n14 | 9n44 | 10n16 | 5s 7 | 16n34 | 3s20 |

Julian Day Number = 2337802.5, Delta T = 19.10 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'36, Lahiri = 19°30'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## SEPTEMBER 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 44 5 | 9♍18'55 | 16♏20 | 28°R46 | 8♍30 | 10♍ 3 | 17°R37 | 22♎17 | 22°R53 | 9°R31 | 24♋31 | 25♈ 6 | 26♈31 | 15♎26 | 28♉19 | W 1 |
| T 2 | 22 48 2 | 10°17'09 | 28°19 | 28♌21 | 9°44 | 10°42 | 17♑35 | 22°22 | 22♉53 | 9♓29 | 24°32 | 25° 8 | 26°28 | 15°33 | 28°19 | T 2 |
| F 3 | 22 51 58 | 11°15'25 | 10♐32 | 28° 4 | 10°59 | 11°20 | 17°33 | 22°28 | 22°52 | 9°27 | 24°34 | 25°R 8 | 26°25 | 15°39 | 28°R19 | F 3 |
| S 4 | 22 55 55 | 12°13'43 | 23° 3 | 27°D56 | 12°13 | 11°58 | 17°31 | 22°35 | 22°52 | 9°26 | 24°35 | 25° 8 | 26°21 | 15°46 | 28°19 | S 4 |
| S 5 | 22 59 52 | 13°12'02 | 5♑58 | 27°57 | 13°28 | 12°37 | 17°29 | 22°41 | 22°52 | 9°24 | 24°36 | 25° 5 | 26°18 | 15°53 | 28°19 | S 5 |
| M 6 | 23 3 48 | 14°10'23 | 19°20 | 28° 7 | 14°42 | 13°15 | 17°28 | 22°47 | 22°51 | 9°22 | 24°37 | 25° 1 | 26°15 | 15°59 | 28°19 | M 6 |
| T 7 | 23 7 45 | 15° 8'45 | 3♒10 | 28°26 | 15°57 | 13°54 | 17°27 | 22°53 | 22°51 | 9°21 | 24°38 | 24°56 | 26°12 | 16° 6 | 28°19 | T 7 |
| W 8 | 23 11 41 | 16° 7'09 | 17°27 | 28°54 | 17°12 | 14°32 | 17°26 | 22°59 | 22°50 | 9°19 | 24°39 | 24°50 | 26° 9 | 16°13 | 28°19 | W 8 |
| T 9 | 23 15 38 | 17° 5'34 | 2♓ 8 | 29°31 | 18°26 | 15°10 | 17°25 | 23° 6 | 22°49 | 9°17 | 24°40 | 24°45 | 26° 5 | 16°19 | 28°18 | T 9 |
| F 10 | 23 19 34 | 18° 4'01 | 17° 5 | 0♍16 | 19°41 | 15°49 | 17°24 | 23°12 | 22°49 | 9°16 | 24°42 | 24°40 | 26° 2 | 16°26 | 28°18 | F 10 |
| S 11 | 23 23 31 | 19° 2'30 | 2♈10 | 1°10 | 20°55 | 16°27 | 17°24 | 23°18 | 22°48 | 9°14 | 24°43 | 24°36 | 25°59 | 16°33 | 28°17 | S 11 |
| S 12 | 23 27 27 | 20° 1'01 | 17°14 | 2°11 | 22°10 | 17° 6 | 17°24 | 23°25 | 22°47 | 9°13 | 24°44 | 24°35 | 25°56 | 16°39 | 28°17 | S 12 |
| M13 | 23 31 24 | 20°59'34 | 2♉ 9 | 3°19 | 23°25 | 17°44 | 17°D24 | 23°31 | 22°47 | 9°11 | 24°45 | 24°D35 | 25°53 | 16°46 | 28°16 | M13 |
| T 14 | 23 35 21 | 21°58'10 | 16°47 | 4°33 | 24°40 | 18°23 | 17°24 | 23°38 | 22°46 | 9° 9 | 24°46 | 24°36 | 25°50 | 16°52 | 28°15 | T 14 |
| W15 | 23 39 17 | 22°56'47 | 1♊ 4 | 5°53 | 25°54 | 19° 2 | 17°24 | 23°44 | 22°45 | 9° 8 | 24°47 | 24°37 | 25°46 | 16°59 | 28°14 | W15 |
| T 16 | 23 43 14 | 23°55'27 | 14°59 | 7°19 | 27° 9 | 19°40 | 17°25 | 23°51 | 22°44 | 9° 6 | 24°48 | 24°38 | 25°43 | 17° 6 | 28°14 | T 16 |
| F 17 | 23 47 10 | 24°54'10 | 28°33 | 8°48 | 28°24 | 20°19 | 17°26 | 23°58 | 22°43 | 9° 5 | 24°49 | 24°R39 | 25°40 | 17°12 | 28°13 | F 17 |
| S 18 | 23 51 7 | 25°52'54 | 11♋45 | 10°22 | 29°38 | 20°57 | 17°27 | 24° 4 | 22°42 | 9° 3 | 24°49 | 24°38 | 25°37 | 17°19 | 28°12 | S 18 |
| S 19 | 23 55 3 | 26°51'41 | 24°40 | 11°59 | 0♎53 | 21°36 | 17°28 | 24°11 | 22°41 | 9° 1 | 24°50 | 24°35 | 25°34 | 17°26 | 28°11 | S 19 |
| M20 | 23 59 0 | 27°50'30 | 7♌18 | 13°39 | 2° 8 | 22°15 | 17°29 | 24°18 | 22°40 | 9° 0 | 24°51 | 24°32 | 25°31 | 17°32 | 28°10 | M20 |
| T 21 | 0 2 56 | 28°49'21 | 19°43 | 15°21 | 3°23 | 22°53 | 17°31 | 24°24 | 22°39 | 8°58 | 24°52 | 24°28 | 25°27 | 17°39 | 28° 8 | T 21 |
| W22 | 0 6 53 | 29°48'15 | 1♍56 | 17° 5 | 4°38 | 23°32 | 17°32 | 24°31 | 22°38 | 8°57 | 24°53 | 24°24 | 25°24 | 17°46 | 28° 7 | W22 |
| T 23 | 0 10 50 | 0♎47'10 | 14° 0 | 18°51 | 5°52 | 24°11 | 17°34 | 24°38 | 22°36 | 8°55 | 24°54 | 24°20 | 25°21 | 17°52 | 28° 6 | T 23 |
| F 24 | 0 14 46 | 1°46'08 | 25°57 | 20°37 | 7° 7 | 24°49 | 17°37 | 24°45 | 22°35 | 8°54 | 24°55 | 24°16 | 25°18 | 17°59 | 28° 4 | F 24 |
| S 25 | 0 18 43 | 2°45'07 | 7♎48 | 22°24 | 8°22 | 25°28 | 17°39 | 24°52 | 22°34 | 8°52 | 24°55 | 24°14 | 25°15 | 18° 6 | 28° 3 | S 25 |
| S 26 | 0 22 39 | 3°44'09 | 19°36 | 24°12 | 9°37 | 26° 7 | 17°41 | 24°59 | 22°32 | 8°51 | 24°56 | 24°D13 | 25°11 | 18°12 | 28° 2 | S 26 |
| M27 | 0 26 36 | 4°43'12 | 1♏22 | 26° 0 | 10°52 | 26°46 | 17°44 | 25° 6 | 22°31 | 8°49 | 24°57 | 24°13 | 25° 8 | 18°19 | 28° 0 | M27 |
| T 28 | 0 30 32 | 5°42'18 | 13°10 | 27°48 | 12° 7 | 27°24 | 17°47 | 25°13 | 22°29 | 8°48 | 24°57 | 24°14 | 25° 5 | 18°25 | 27°58 | T 28 |
| W29 | 0 34 29 | 6°41'25 | 25° 2 | 29°36 | 13°22 | 28° 3 | 17°50 | 25°20 | 22°28 | 8°47 | 24°58 | 24°16 | 25° 2 | 18°32 | 27°57 | W29 |
| T 30 | 0 38 25 | 7♎40'35 | 7♐ 3 | 1♎24 | 14♎36 | 28♍42 | 17♑53 | 25♎27 | 22♉26 | 8♓45 | 24♋59 | 24♈17 | 24♈59 | 18♎39 | 27♉55 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 8n 5 | 18s33 | 1s53 | 9n39 | 2s25 | 9n42 | 1n24 | 8n48 | 1n 4 | 22s49 | 0s30 | 6s32 | 2n19 | 18n14 | 0s18 | 8s55 | 0s58 | 23n27 | 2n14 | 9n44 | 10n15 | 5s10 | 16n34 | 3s20 |
| T 2 | 7 43 | 22 35 | 2 50 | 10 6 | 2 6 | 9 14 | 1 24 | 8 33 | 1 3 | 22 49 | 0 30 | 6 34 | 2 19 | 18 14 | 0 18 | 8 55 | 0 58 | 23 27 | 2 14 | 9 45 | 10 14 | 5 14 | 16 34 | 3 21 |
| F 3 | 7 21 | 25 43 | 3 42 | 10 29 | 1 47 | 8 46 | 1 25 | 8 18 | 1 3 | 22 50 | 0 30 | 6 37 | 2 19 | 18 14 | 0 18 | 8 56 | 0 58 | 23 27 | 2 14 | 9 45 | 10 12 | 5 17 | 16 33 | 3 21 |
| S 4 | 6 59 | 27 41 | 4 23 | 10 50 | 1 28 | 8 18 | 1 25 | 8 3 | 1 3 | 22 50 | 0 30 | 6 39 | 2 19 | 18 14 | 0 18 | 8 56 | 0 58 | 23 27 | 2 14 | 9 45 | 10 11 | 5 20 | 16 33 | 3 21 |
| S 5 | 6 37 | 28 14 | 4 54 | 11 8 | 1 9 | 7 49 | 1 25 | 7 48 | 1 3 | 22 50 | 0 30 | 6 41 | 2 19 | 18 14 | 0 18 | 8 57 | 0 58 | 23 27 | 2 14 | 9 44 | 10 10 | 5 24 | 16 33 | 3 22 |
| M 6 | 6 14 | 27 11 | 5 9 | 11 22 | 0 50 | 7 20 | 1 25 | 7 33 | 1 2 | 22 50 | 0 30 | 6 44 | 2 19 | 18 14 | 0 18 | 8 58 | 0 58 | 23 27 | 2 15 | 9 42 | 10 9 | 5 27 | 16 32 | 3 22 |
| T 7 | 5 52 | 24 28 | 5 7 | 11 32 | 0 32 | 6 51 | 1 25 | 7 18 | 1 2 | 22 51 | 0 30 | 6 46 | 2 18 | 18 14 | 0 18 | 8 58 | 0 58 | 23 27 | 2 15 | 9 40 | 10 8 | 5 31 | 16 32 | 3 22 |
| W 8 | 5 29 | 20 11 | 4 47 | 11 38 | 0 15 | 6 22 | 1 25 | 7 3 | 1 2 | 22 51 | 0 30 | 6 49 | 2 18 | 18 14 | 0 18 | 8 59 | 0 58 | 23 26 | 2 15 | 9 38 | 10 7 | 5 34 | 16 31 | 3 23 |
| T 9 | 5 6 | 14 35 | 4 7 | 11 41 | 0n 1 | 5 52 | 1 24 | 6 48 | 1 2 | 22 51 | 0 30 | 6 51 | 2 18 | 18 13 | 0 18 | 9 0 | 0 58 | 23 26 | 2 15 | 9 36 | 10 6 | 5 37 | 16 31 | 3 23 |
| F 10 | 4 44 | 8 2 | 3 10 | 11 39 | 0 17 | 5 23 | 1 24 | 6 33 | 1 2 | 22 51 | 0 31 | 6 54 | 2 18 | 18 13 | 0 18 | 9 0 | 0 58 | 23 26 | 2 15 | 9 34 | 10 4 | 5 41 | 16 31 | 3 23 |
| S 11 | 4 21 | 0 58 | 1 59 | 11 34 | 0 31 | 4 53 | 1 24 | 6 18 | 1 1 | 22 51 | 0 31 | 6 56 | 2 18 | 18 13 | 0 18 | 9 1 | 0 58 | 23 26 | 2 15 | 9 33 | 10 3 | 5 44 | 16 30 | 3 24 |
| S 12 | 3 58 | 6n10 | 0 40 | 11 24 | 0 44 | 4 23 | 1 23 | 6 2 | 1 1 | 22 51 | 0 31 | 6 59 | 2 18 | 18 13 | 0 18 | 9 1 | 0 58 | 23 26 | 2 15 | 9 32 | 10 2 | 5 47 | 16 30 | 3 24 |
| M13 | 3 35 | 12 53 | 0n41 | 11 11 | 0 56 | 3 53 | 1 23 | 5 47 | 1 1 | 22 51 | 0 31 | 7 1 | 2 18 | 18 13 | 0 18 | 9 2 | 0 58 | 23 26 | 2 15 | 9 32 | 10 1 | 5 51 | 16 29 | 3 24 |
| T 14 | 3 11 | 18 46 | 1 59 | 10 53 | 1 7 | 3 23 | 1 22 | 5 32 | 1 1 | 22 51 | 0 31 | 7 4 | 2 18 | 18 12 | 0 18 | 9 3 | 0 58 | 23 26 | 2 15 | 9 33 | 10 0 | 5 54 | 16 29 | 3 25 |
| W15 | 2 48 | 23 27 | 3 7 | 10 33 | 1 16 | 2 53 | 1 22 | 5 17 | 1 0 | 22 51 | 0 31 | 7 6 | 2 17 | 18 12 | 0 18 | 9 3 | 0 58 | 23 26 | 2 16 | 9 33 | 9 59 | 5 57 | 16 28 | 3 25 |
| T 16 | 2 25 | 26 38 | 4 2 | 10 9 | 1 24 | 2 23 | 1 21 | 5 1 | 1 0 | 22 51 | 0 31 | 7 9 | 2 17 | 18 12 | 0 18 | 9 4 | 0 58 | 23 26 | 2 16 | 9 34 | 9 57 | 6 1 | 16 28 | 3 25 |
| F 17 | 2 2 | 28 10 | 4 42 | 9 42 | 1 32 | 1 52 | 1 20 | 4 46 | 1 0 | 22 51 | 0 31 | 7 11 | 2 17 | 18 12 | 0 18 | 9 4 | 0 58 | 23 26 | 2 16 | 9 34 | 9 56 | 6 4 | 16 27 | 3 26 |
| S 18 | 1 38 | 28 2 | 5 6 | 9 12 | 1 38 | 1 22 | 1 20 | 4 30 | 1 0 | 22 51 | 0 31 | 7 14 | 2 17 | 18 11 | 0 18 | 9 5 | 0 58 | 23 26 | 2 16 | 9 34 | 9 55 | 6 7 | 16 27 | 3 26 |
| S 19 | 1 15 | 26 22 | 5 14 | 8 39 | 1 43 | 0 51 | 1 19 | 4 15 | 0 59 | 22 51 | 0 31 | 7 16 | 2 17 | 18 11 | 0 18 | 9 6 | 0 58 | 23 26 | 2 16 | 9 33 | 9 54 | 6 11 | 16 26 | 3 26 |
| M20 | 0 52 | 23 24 | 5 6 | 8 5 | 1 47 | 0 20 | 1 18 | 3 59 | 0 59 | 22 51 | 0 31 | 7 19 | 2 17 | 18 11 | 0 18 | 9 6 | 0 58 | 23 26 | 2 16 | 9 31 | 9 53 | 6 14 | 16 26 | 3 27 |
| T 21 | 0 28 | 19 25 | 4 44 | 7 28 | 1 49 | 0s10 | 1 17 | 3 44 | 0 59 | 22 51 | 0 31 | 7 21 | 2 17 | 18 11 | 0 18 | 9 7 | 0 58 | 23 26 | 2 16 | 9 30 | 9 52 | 6 17 | 16 25 | 3 27 |
| W22 | 0 5 | 14 41 | 4 9 | 6 49 | 1 51 | 0 41 | 1 16 | 3 28 | 0 59 | 22 50 | 0 31 | 7 24 | 2 17 | 18 10 | 0 18 | 9 7 | 0 58 | 23 26 | 2 16 | 9 28 | 9 51 | 6 21 | 16 25 | 3 27 |
| T 23 | 0s19 | 9 26 | 3 24 | 6 9 | 1 53 | 1 12 | 1 15 | 3 12 | 0 58 | 22 50 | 0 31 | 7 27 | 2 17 | 18 10 | 0 18 | 9 8 | 0 58 | 23 26 | 2 17 | 9 27 | 9 49 | 6 24 | 16 24 | 3 27 |
| F 24 | 0 42 | 3 54 | 2 30 | 5 27 | 1 53 | 1 42 | 1 14 | 2 57 | 0 58 | 22 50 | 0 31 | 7 29 | 2 16 | 18 10 | 0 18 | 9 8 | 0 58 | 23 26 | 2 17 | 9 26 | 9 48 | 6 28 | 16 23 | 3 28 |
| S 25 | 1 6 | 1s44 | 1 29 | 4 44 | 1 52 | 2 13 | 1 13 | 2 41 | 0 58 | 22 50 | 0 31 | 7 32 | 2 16 | 18 9 | 0 18 | 9 9 | 0 58 | 23 26 | 2 17 | 9 25 | 9 47 | 6 31 | 16 23 | 3 28 |
| S 26 | 1 29 | 7 17 | 0 26 | 4 1 | 1 51 | 2 43 | 1 11 | 2 26 | 0 57 | 22 49 | 0 31 | 7 34 | 2 16 | 18 9 | 0 18 | 9 10 | 0 58 | 23 25 | 2 17 | 9 25 | 9 46 | 6 34 | 16 22 | 3 28 |
| M27 | 1 53 | 12 35 | 0s39 | 3 16 | 1 49 | 3 14 | 1 10 | 2 10 | 0 57 | 22 49 | 0 31 | 7 37 | 2 16 | 18 9 | 0 18 | 9 10 | 0 58 | 23 25 | 2 17 | 9 25 | 9 45 | 6 38 | 16 22 | 3 29 |
| T 28 | 2 16 | 17 27 | 1 43 | 2 31 | 1 47 | 3 45 | 1 9 | 1 54 | 0 57 | 22 49 | 0 31 | 7 40 | 2 16 | 18 8 | 0 18 | 9 11 | 0 58 | 23 25 | 2 17 | 9 25 | 9 44 | 6 41 | 16 21 | 3 29 |
| W29 | 2 40 | 21 41 | 2 42 | 1 45 | 1 44 | 4 15 | 1 7 | 1 38 | 0 57 | 22 48 | 0 31 | 7 42 | 2 16 | 18 8 | 0 18 | 9 11 | 0 58 | 23 25 | 2 17 | 9 25 | 9 42 | 6 44 | 16 20 | 3 29 |
| T 30 | 3s 3 | 25s 4 | 3s36 | 0n59 | 1n41 | 4s45 | 1n 6 | 1n23 | 0n56 | 22s48 | 0s31 | 7s45 | 2n16 | 18n 7 | 0s18 | 9s12 | 0s58 | 23n25 | 2n17 | 9n26 | 9n41 | 6s48 | 16n20 | 3s30 |

Julian Day Number = 2337833.5, Delta T = 19.06 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'40, Lahiri = 19°30'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## OCTOBER 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 42 22 | 8♎39'46 | 19♐16 | 3♎11 | 15♎51 | 29♍21 | 17♑57 | 25♎34 | 22°R25 | 8°R44 | 24♋59 | 24♈19 | 24♈56 | 18♎45 | 27°R53 | F 1 |
| S 2 | 0 46 18 | 9°38'59 | 1♑45 | 4°58 | 17° 6 | 29°59 | 18° 0 | 25°41 | 22♉23 | 8♓42 | 25° 0 | 24°19 | 24°52 | 18°52 | 27♉51 | S 2 |
| S 3 | 0 50 15 | 10°38'14 | 14°36 | 6°44 | 18°21 | 0♎39 | 18° 4 | 25°48 | 22°22 | 8°41 | 25° 1 | 24°R19 | 24°49 | 18°59 | 27°49 | S 3 |
| M 4 | 0 54 12 | 11°37'31 | 27°50 | 8°29 | 19°36 | 1°18 | 18° 8 | 25°55 | 22°20 | 8°40 | 25° 1 | 24°19 | 24°46 | 19° 5 | 27°47 | M 4 |
| T 5 | 0 58 8 | 12°36'49 | 11♒31 | 10°14 | 20°51 | 1°57 | 18°12 | 26° 2 | 22°18 | 8°38 | 25° 2 | 24°18 | 24°43 | 19°12 | 27°45 | T 5 |
| W 6 | 1 2 5 | 13°36'09 | 25°40 | 11°59 | 22° 6 | 2°35 | 18°17 | 26° 9 | 22°16 | 8°37 | 25° 2 | 24°17 | 24°40 | 19°19 | 27°43 | W 6 |
| T 7 | 1 6 1 | 14°35'31 | 10♓15 | 13°43 | 23°21 | 3°14 | 18°21 | 26°16 | 22°15 | 8°36 | 25° 3 | 24°15 | 24°36 | 19°25 | 27°41 | T 7 |
| F 8 | 1 9 58 | 15°34'55 | 25°11 | 15°26 | 24°35 | 3°53 | 18°26 | 26°24 | 22°13 | 8°35 | 25° 3 | 24°14 | 24°33 | 19°32 | 27°39 | F 8 |
| S 9 | 1 13 54 | 16°34'21 | 10♈20 | 17° 8 | 25°50 | 4°32 | 18°31 | 26°31 | 22°11 | 8°33 | 25° 4 | 24°14 | 24°30 | 19°39 | 27°37 | S 9 |
| S 10 | 1 17 51 | 17°33'48 | 25°34 | 18°50 | 27° 5 | 5°11 | 18°36 | 26°38 | 22° 9 | 8°32 | 25° 4 | 24°D14 | 24°27 | 19°45 | 27°35 | S 10 |
| M11 | 1 21 47 | 18°33'18 | 10♉43 | 20°31 | 28°20 | 5°50 | 18°41 | 26°45 | 22° 7 | 8°31 | 25° 4 | 24°14 | 24°24 | 19°52 | 27°32 | M11 |
| T 12 | 1 25 44 | 19°32'50 | 25°38 | 22°11 | 29°35 | 6°30 | 18°46 | 26°52 | 22° 5 | 8°30 | 25° 5 | 24°14 | 24°21 | 19°59 | 27°30 | T 12 |
| W13 | 1 29 41 | 20°32'25 | 10♊12 | 23°51 | 0♏50 | 7° 9 | 18°52 | 27° 0 | 22° 3 | 8°29 | 25° 5 | 24°15 | 24°17 | 20° 5 | 27°27 | W13 |
| T 14 | 1 33 37 | 21°32'01 | 24°20 | 25°30 | 2° 5 | 7°48 | 18°57 | 27° 7 | 22° 1 | 8°28 | 25° 5 | 24°15 | 24°14 | 20°12 | 27°25 | T 14 |
| F 15 | 1 37 34 | 22°31'40 | 8♋ 2 | 27° 8 | 3°20 | 8°27 | 19° 3 | 27°14 | 21°59 | 8°27 | 25° 6 | 24°15 | 24°11 | 20°18 | 27°22 | F 15 |
| S 16 | 1 41 30 | 23°31'22 | 21°18 | 28°46 | 4°35 | 9° 6 | 19° 9 | 27°21 | 21°57 | 8°26 | 25° 6 | 24°15 | 24° 8 | 20°25 | 27°20 | S 16 |
| S 17 | 1 45 27 | 24°31'05 | 4♌11 | 0♏23 | 5°50 | 9°45 | 19°16 | 27°29 | 21°55 | 8°25 | 25° 6 | 24°15 | 24° 5 | 20°32 | 27°17 | S 17 |
| M18 | 1 49 23 | 25°30'51 | 16°43 | 2° 0 | 7° 5 | 10°25 | 19°22 | 27°36 | 21°53 | 8°24 | 25° 6 | 24°15 | 24° 2 | 20°38 | 27°14 | M18 |
| T 19 | 1 53 20 | 26°30'39 | 29° 0 | 3°36 | 8°19 | 11° 4 | 19°28 | 27°43 | 21°50 | 8°23 | 25° 7 | 24°15 | 23°58 | 20°45 | 27°12 | T 19 |
| W20 | 1 57 16 | 27°30'29 | 11♍ 4 | 5°11 | 9°34 | 11°43 | 19°35 | 27°50 | 21°48 | 8°22 | 25° 7 | 24°16 | 23°55 | 20°52 | 27° 9 | W20 |
| T 21 | 2 1 13 | 28°30'21 | 22°59 | 6°46 | 10°49 | 12°22 | 19°42 | 27°58 | 21°46 | 8°21 | 25° 7 | 24°16 | 23°52 | 20°58 | 27° 6 | T 21 |
| F 22 | 2 5 10 | 29°30'16 | 4♎49 | 8°20 | 12° 4 | 13° 2 | 19°49 | 28° 5 | 21°44 | 8°20 | 25° 7 | 24°17 | 23°49 | 21° 5 | 27° 3 | F 22 |
| S 23 | 2 9 6 | 0♏30'12 | 16°36 | 9°54 | 13°19 | 13°41 | 19°56 | 28°12 | 21°41 | 8°19 | 25° 7 | 24°17 | 23°46 | 21°12 | 27° 0 | S 23 |
| S 24 | 2 13 3 | 1°30'10 | 28°23 | 11°28 | 14°34 | 14°20 | 20° 3 | 28°19 | 21°39 | 8°18 | 25° 7 | 24°R17 | 23°42 | 21°18 | 26°58 | S 24 |
| M25 | 2 16 59 | 2°30'11 | 10♏13 | 13° 1 | 15°49 | 15° 0 | 20°11 | 28°27 | 21°37 | 8°17 | 25°R 7 | 24°17 | 23°39 | 21°25 | 26°55 | M25 |
| T 26 | 2 20 56 | 3°30'13 | 22° 6 | 14°33 | 17° 4 | 15°39 | 20°19 | 28°34 | 21°34 | 8°16 | 25° 7 | 24°16 | 23°36 | 21°32 | 26°52 | T 26 |
| W27 | 2 24 52 | 4°30'17 | 4♐ 6 | 16° 5 | 18°19 | 16°18 | 20°26 | 28°41 | 21°32 | 8°16 | 25° 7 | 24°14 | 23°33 | 21°38 | 26°49 | W27 |
| T 28 | 2 28 49 | 5°30'23 | 16°15 | 17°37 | 19°34 | 16°58 | 20°34 | 28°48 | 21°30 | 8°15 | 25° 7 | 24°13 | 23°30 | 21°45 | 26°46 | T 28 |
| F 29 | 2 32 45 | 6°30'31 | 28°35 | 19° 8 | 20°49 | 17°37 | 20°42 | 28°56 | 21°27 | 8°14 | 25° 7 | 24°11 | 23°27 | 21°51 | 26°42 | F 29 |
| S 30 | 2 36 42 | 7°30'41 | 11♑ 9 | 20°38 | 22° 4 | 18°17 | 20°50 | 29° 3 | 21°25 | 8°14 | 25° 7 | 24°10 | 23°23 | 21°58 | 26°39 | S 30 |
| S 31 | 2 40 39 | 8♏30'52 | 23♑59 | 22♏ 9 | 23♏19 | 18♎56 | 20♑59 | 29♎10 | 21♉22 | 8♓13 | 25♋ 7 | 24♈ 8 | 23♈20 | 22♎ 5 | 26♉36 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3s26 | 27s22 | 4s20 | 0n13 | 1n37 | 5s16 | 1n 4 | 1n 7 | 0n56 | 22s47 | 0s31 | 7s47 | 2n16 | 18n 7 | 0s18 | 9s12 | 0s58 | 23n25 | 2n17 | 9n26 | 9n40 | 6s51 | 16n19 | 3s30 |
| S 2 | 3 50 | 28 21 | 4 53 | 0s33 | 1 33 | 5 46 | 1 3 | 0 51 | 0 56 | 22 47 | 0 31 | 7 50 | 2 16 | 18 7 | 0 18 | 9 13 | 0 58 | 23 25 | 2 18 | 9 27 | 9 39 | 6 54 | 16 18 | 3 30 |
| S 3 | 4 13 | 27 52 | 5 13 | 1 20 | 1 28 | 6 16 | 1 1 | 0 35 | 0 55 | 22 46 | 0 31 | 7 53 | 2 16 | 18 6 | 0 18 | 9 13 | 0 58 | 23 25 | 2 18 | 9 27 | 9 38 | 6 58 | 16 17 | 3 30 |
| M 4 | 4 36 | 25 48 | 5 17 | 2 6 | 1 23 | 6 46 | 0 59 | 0 20 | 0 55 | 22 46 | 0 31 | 7 55 | 2 16 | 18 6 | 0 18 | 9 14 | 0 58 | 23 26 | 2 18 | 9 27 | 9 37 | 7 1 | 16 17 | 3 31 |
| T 5 | 5 0 | 22 12 | 5 3 | 2 52 | 1 18 | 7 16 | 0 58 | 0 4 | 0 55 | 22 45 | 0 31 | 7 58 | 2 16 | 18 5 | 0 18 | 9 14 | 0 58 | 23 26 | 2 18 | 9 26 | 9 35 | 7 4 | 16 16 | 3 31 |
| W 6 | 5 23 | 17 14 | 4 31 | 3 38 | 1 13 | 7 45 | 0 56 | 0s12 | 0 55 | 22 45 | 0 31 | 8 1 | 2 16 | 18 5 | 0 18 | 9 15 | 0 58 | 23 26 | 2 18 | 9 26 | 9 34 | 7 8 | 16 15 | 3 31 |
| T 7 | 5 46 | 11 9 | 3 41 | 4 23 | 1 7 | 8 15 | 0 54 | 0 28 | 0 54 | 22 44 | 0 31 | 8 3 | 2 16 | 18 4 | 0 18 | 9 15 | 0 58 | 23 26 | 2 18 | 9 25 | 9 33 | 7 11 | 16 15 | 3 32 |
| F 8 | 6 9 | 4 17 | 2 35 | 5 9 | 1 1 | 8 44 | 0 52 | 0 43 | 0 54 | 22 44 | 0 31 | 8 6 | 2 16 | 18 4 | 0 18 | 9 16 | 0 58 | 23 26 | 2 18 | 9 25 | 9 32 | 7 14 | 16 14 | 3 32 |
| S 9 | 6 32 | 2n56 | 1 16 | 5 53 | 0 55 | 9 13 | 0 50 | 0 59 | 0 54 | 22 43 | 0 31 | 8 8 | 2 16 | 18 3 | 0 18 | 9 16 | 0 58 | 23 26 | 2 18 | 9 25 | 9 31 | 7 18 | 16 13 | 3 32 |
| S 10 | 6 54 | 10 1 | 0n 7 | 6 38 | 0 49 | 9 42 | 0 48 | 1 15 | 0 53 | 22 42 | 0 31 | 8 11 | 2 15 | 18 3 | 0 18 | 9 17 | 0 58 | 23 26 | 2 19 | 9 25 | 9 30 | 7 21 | 16 12 | 3 32 |
| M11 | 7 17 | 16 30 | 1 30 | 7 22 | 0 43 | 10 11 | 0 46 | 1 31 | 0 53 | 22 42 | 0 31 | 8 14 | 2 15 | 18 2 | 0 18 | 9 17 | 0 58 | 23 26 | 2 19 | 9 25 | 9 28 | 7 24 | 16 11 | 3 33 |
| T 12 | 7 40 | 21 53 | 2 46 | 8 6 | 0 36 | 10 39 | 0 44 | 1 47 | 0 53 | 22 41 | 0 31 | 8 16 | 2 15 | 18 2 | 0 18 | 9 17 | 0 58 | 23 26 | 2 19 | 9 25 | 9 27 | 7 28 | 16 11 | 3 33 |
| W13 | 8 2 | 25 47 | 3 49 | 8 49 | 0 30 | 11 7 | 0 42 | 2 2 | 0 52 | 22 40 | 0 31 | 8 19 | 2 15 | 18 1 | 0 18 | 9 18 | 0 58 | 23 26 | 2 19 | 9 25 | 9 26 | 7 31 | 16 10 | 3 33 |
| T 14 | 8 25 | 27 57 | 4 36 | 9 31 | 0 23 | 11 35 | 0 40 | 2 18 | 0 52 | 22 39 | 0 31 | 8 21 | 2 15 | 18 1 | 0 18 | 9 18 | 0 58 | 23 26 | 2 19 | 9 25 | 9 25 | 7 34 | 16 9 | 3 33 |
| F 15 | 8 47 | 28 19 | 5 5 | 10 13 | 0 16 | 12 3 | 0 38 | 2 34 | 0 52 | 22 38 | 0 31 | 8 24 | 2 15 | 18 0 | 0 18 | 9 19 | 0 58 | 23 26 | 2 19 | 9 25 | 9 24 | 7 38 | 16 8 | 3 34 |
| S 16 | 9 9 | 27 1 | 5 18 | 10 54 | 0 10 | 12 30 | 0 36 | 2 50 | 0 51 | 22 38 | 0 31 | 8 27 | 2 15 | 18 0 | 0 18 | 9 19 | 0 58 | 23 26 | 2 19 | 9 25 | 9 23 | 7 41 | 16 7 | 3 34 |
| S 17 | 9 31 | 24 19 | 5 13 | 11 35 | 0 3 | 12 58 | 0 34 | 3 5 | 0 51 | 22 37 | 0 31 | 8 29 | 2 15 | 17 59 | 0 18 | 9 19 | 0 58 | 23 26 | 2 19 | 9 25 | 9 21 | 7 44 | 16 7 | 3 34 |
| M18 | 9 53 | 20 31 | 4 54 | 12 15 | 0s 4 | 13 24 | 0 31 | 3 21 | 0 51 | 22 36 | 0 31 | 8 32 | 2 15 | 17 59 | 0 18 | 9 20 | 0 58 | 23 26 | 2 20 | 9 25 | 9 20 | 7 48 | 16 6 | 3 34 |
| T 19 | 10 15 | 15 55 | 4 22 | 12 54 | 0 11 | 13 51 | 0 29 | 3 37 | 0 50 | 22 35 | 0 31 | 8 35 | 2 15 | 17 58 | 0 18 | 9 20 | 0 58 | 23 26 | 2 20 | 9 25 | 9 19 | 7 51 | 16 5 | 3 35 |
| W20 | 10 36 | 10 47 | 3 38 | 13 33 | 0 17 | 14 17 | 0 27 | 3 52 | 0 50 | 22 34 | 0 31 | 8 37 | 2 15 | 17 58 | 0 18 | 9 20 | 0 58 | 23 26 | 2 20 | 9 25 | 9 18 | 7 54 | 16 4 | 3 35 |
| T 21 | 10 58 | 5 19 | 2 45 | 14 11 | 0 24 | 14 43 | 0 25 | 4 8 | 0 50 | 22 33 | 0 31 | 8 40 | 2 15 | 17 57 | 0 18 | 9 21 | 0 58 | 23 27 | 2 20 | 9 26 | 9 17 | 7 57 | 16 3 | 3 35 |
| F 22 | 11 19 | 0s17 | 1 46 | 14 48 | 0 31 | 15 8 | 0 22 | 4 24 | 0 49 | 22 32 | 0 31 | 8 42 | 2 15 | 17 56 | 0 18 | 9 21 | 0 58 | 23 27 | 2 20 | 9 26 | 9 16 | 8 1 | 16 2 | 3 35 |
| S 23 | 11 40 | 5 53 | 0 43 | 15 24 | 0 38 | 15 33 | 0 20 | 4 39 | 0 49 | 22 31 | 0 31 | 8 45 | 2 15 | 17 56 | 0 18 | 9 21 | 0 58 | 23 27 | 2 20 | 9 26 | 9 14 | 8 4 | 16 2 | 3 36 |
| S 24 | 12 1 | 11 16 | 0s23 | 16 0 | 0 44 | 15 58 | 0 17 | 4 55 | 0 49 | 22 30 | 0 31 | 8 47 | 2 15 | 17 55 | 0 18 | 9 22 | 0 58 | 23 27 | 2 20 | 9 26 | 9 13 | 8 7 | 16 1 | 3 36 |
| M25 | 12 22 | 16 17 | 1 27 | 16 35 | 0 51 | 16 22 | 0 15 | 5 11 | 0 48 | 22 29 | 0 31 | 8 50 | 2 15 | 17 55 | 0 18 | 9 22 | 0 57 | 23 27 | 2 21 | 9 26 | 9 12 | 8 11 | 16 0 | 3 36 |
| T 26 | 12 42 | 20 43 | 2 28 | 17 9 | 0 57 | 16 46 | 0 13 | 5 26 | 0 48 | 22 28 | 0 31 | 8 53 | 2 15 | 17 54 | 0 18 | 9 22 | 0 57 | 23 27 | 2 21 | 9 25 | 9 11 | 8 14 | 15 59 | 3 36 |
| W27 | 13 3 | 24 20 | 3 23 | 17 42 | 1 4 | 17 9 | 0 10 | 5 42 | 0 47 | 22 26 | 0 31 | 8 55 | 2 15 | 17 53 | 0 18 | 9 22 | 0 57 | 23 27 | 2 21 | 9 25 | 9 10 | 8 17 | 15 58 | 3 36 |
| T 28 | 13 23 | 26 55 | 4 10 | 18 14 | 1 10 | 17 32 | 0 8 | 5 57 | 0 47 | 22 25 | 0 31 | 8 58 | 2 15 | 17 53 | 0 18 | 9 23 | 0 57 | 23 27 | 2 21 | 9 24 | 9 8 | 8 21 | 15 57 | 3 37 |
| F 29 | 13 43 | 28 14 | 4 46 | 18 45 | 1 16 | 17 54 | 0 5 | 6 13 | 0 47 | 22 24 | 0 31 | 9 0 | 2 15 | 17 52 | 0 18 | 9 23 | 0 57 | 23 28 | 2 21 | 9 24 | 9 7 | 8 24 | 15 56 | 3 37 |
| S 30 | 14 3 | 28 8 | 5 9 | 19 16 | 1 22 | 18 16 | 0 3 | 6 28 | 0 46 | 22 23 | 0 31 | 9 3 | 2 15 | 17 52 | 0 18 | 9 23 | 0 57 | 23 28 | 2 21 | 9 23 | 9 6 | 8 27 | 15 55 | 3 37 |
| S 31 | 14s22 | 26s33 | 5s17 | 19s45 | 1s28 | 18s38 | 0n 0 | 6s43 | 0n46 | 22s22 | 0s31 | 9s 5 | 2n15 | 17n51 | 0s18 | 9s23 | 0s57 | 23n28 | 2n21 | 9n23 | 9n 5 | 8s31 | 15n54 | 3s37 |

Julian Day Number = 2337863.5, Delta T = 19.02 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'44, Lahiri = 19°30'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## NOVEMBER 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 44 35 | 9♏31'04 | 7♒ 8 | 23♏38 | 24♏34 | 19♎36 | 21♑ 7 | 29♎17 | 21°R20 | 8°R12 | 25°R 7 | 24°D 8 | 23♈17 | 22♎11 | 26°R33 | M 1 |
| T 2 | 2 48 32 | 10°31'18 | 20°40 | 25° 8 | 25°49 | 20°15 | 21°16 | 29°24 | 21♉18 | 8♓12 | 25♋ 6 | 24♈ 8 | 23°14 | 22°18 | 26♉30 | T 2 |
| W 3 | 2 52 28 | 11°31'33 | 4♓34 | 26°37 | 27° 4 | 20°55 | 21°25 | 29°32 | 21°15 | 8°11 | 25° 6 | 24° 9 | 23°11 | 22°25 | 26°27 | W 3 |
| T 4 | 2 56 25 | 12°31'50 | 18°52 | 28° 5 | 28°19 | 21°35 | 21°33 | 29°39 | 21°13 | 8°11 | 25° 6 | 24°10 | 23° 8 | 22°31 | 26°23 | T 4 |
| F 5 | 3 0 21 | 13°32'08 | 3♈31 | 29°33 | 29°34 | 22°14 | 21°42 | 29°46 | 21°10 | 8°10 | 25° 6 | 24°12 | 23° 4 | 22°38 | 26°20 | F 5 |
| S 6 | 3 4 18 | 14°32'28 | 18°27 | 1♐ 1 | 0♐48 | 22°54 | 21°51 | 29°53 | 21° 8 | 8°10 | 25° 5 | 24°R12 | 23° 1 | 22°45 | 26°17 | S 6 |
| S 7 | 3 8 14 | 15°32'49 | 3♉34 | 2°27 | 2° 3 | 23°34 | 22° 1 | 0♏ 0 | 21° 5 | 8°10 | 25° 5 | 24°12 | 22°58 | 22°51 | 26°14 | S 7 |
| M 8 | 3 12 11 | 16°33'12 | 18°41 | 3°54 | 3°18 | 24°13 | 22°10 | 0° 7 | 21° 3 | 8° 9 | 25° 5 | 24°11 | 22°55 | 22°58 | 26°10 | M 8 |
| T 9 | 3 16 8 | 17°33'37 | 3♊41 | 5°19 | 4°33 | 24°53 | 22°20 | 0°14 | 21° 0 | 8° 9 | 25° 4 | 24° 8 | 22°52 | 23° 5 | 26° 7 | T 9 |
| W10 | 3 20 4 | 18°34'03 | 18°24 | 6°44 | 5°48 | 25°33 | 22°29 | 0°21 | 20°58 | 8° 9 | 25° 4 | 24° 5 | 22°48 | 23°11 | 26° 4 | W10 |
| T 11 | 3 24 1 | 19°34'32 | 2♋44 | 8° 9 | 7° 3 | 26°13 | 22°39 | 0°28 | 20°55 | 8° 8 | 25° 4 | 24° 1 | 22°45 | 23°18 | 26° 0 | T 11 |
| F 12 | 3 27 57 | 20°35'02 | 16°37 | 9°32 | 8°18 | 26°52 | 22°49 | 0°35 | 20°53 | 8° 8 | 25° 3 | 23°58 | 22°42 | 23°25 | 25°57 | F 12 |
| S 13 | 3 31 54 | 21°35'34 | 0♌ 1 | 10°55 | 9°33 | 27°32 | 22°59 | 0°42 | 20°50 | 8° 8 | 25° 3 | 23°55 | 22°39 | 23°31 | 25°54 | S 13 |
| S 14 | 3 35 50 | 22°36'07 | 12°59 | 12°16 | 10°48 | 28°12 | 23° 9 | 0°49 | 20°48 | 8° 8 | 25° 2 | 23°53 | 22°36 | 23°38 | 25°50 | S 14 |
| M15 | 3 39 47 | 23°36'43 | 25°33 | 13°36 | 12° 3 | 28°52 | 23°19 | 0°56 | 20°45 | 8° 7 | 25° 2 | 23°D53 | 22°33 | 23°44 | 25°47 | M15 |
| T 16 | 3 43 44 | 24°37'20 | 7♍48 | 14°55 | 13°18 | 29°32 | 23°29 | 1° 3 | 20°43 | 8° 7 | 25° 1 | 23°54 | 22°29 | 23°51 | 25°43 | T 16 |
| W17 | 3 47 40 | 25°37'59 | 19°49 | 16°13 | 14°32 | 0♏12 | 23°40 | 1°10 | 20°40 | 8° 7 | 25° 1 | 23°55 | 22°26 | 23°58 | 25°40 | W17 |
| T 18 | 3 51 37 | 26°38'39 | 1♎40 | 17°29 | 15°47 | 0°52 | 23°50 | 1°17 | 20°38 | 8° 7 | 25° 0 | 23°57 | 22°23 | 24° 4 | 25°37 | T 18 |
| F 19 | 3 55 33 | 27°39'21 | 13°27 | 18°43 | 17° 2 | 1°32 | 24° 1 | 1°23 | 20°35 | 8°D 7 | 24°59 | 23°59 | 22°20 | 24°11 | 25°33 | F 19 |
| S 20 | 3 59 30 | 28°40'05 | 25°13 | 19°54 | 18°17 | 2°12 | 24°12 | 1°30 | 20°33 | 8° 7 | 24°59 | 23°R59 | 22°17 | 24°18 | 25°30 | S 20 |
| S 21 | 4 3 26 | 29°40'50 | 7♏ 3 | 21° 4 | 19°32 | 2°52 | 24°23 | 1°37 | 20°30 | 8° 7 | 24°58 | 23°58 | 22°14 | 24°24 | 25°26 | S 21 |
| M22 | 4 7 23 | 0♐41'37 | 18°58 | 22°10 | 20°47 | 3°32 | 24°34 | 1°43 | 20°28 | 8° 7 | 24°58 | 23°55 | 22°10 | 24°31 | 25°23 | M22 |
| T 23 | 4 11 19 | 1°42'25 | 1♐ 1 | 23°13 | 22° 2 | 4°12 | 24°45 | 1°50 | 20°25 | 8° 8 | 24°57 | 23°51 | 22° 7 | 24°38 | 25°20 | T 23 |
| W24 | 4 15 16 | 2°43'14 | 13°14 | 24°13 | 23°17 | 4°52 | 24°56 | 1°57 | 20°23 | 8° 8 | 24°56 | 23°44 | 22° 4 | 24°44 | 25°16 | W24 |
| T 25 | 4 19 13 | 3°44'05 | 25°38 | 25° 8 | 24°32 | 5°32 | 25° 7 | 2° 3 | 20°20 | 8° 8 | 24°55 | 23°37 | 22° 1 | 24°51 | 25°13 | T 25 |
| F 26 | 4 23 9 | 4°44'57 | 8♑13 | 25°58 | 25°46 | 6°12 | 25°19 | 2°10 | 20°18 | 8° 8 | 24°55 | 23°29 | 21°58 | 24°58 | 25°10 | F 26 |
| S 27 | 4 27 6 | 5°45'49 | 21° 1 | 26°43 | 27° 1 | 6°53 | 25°30 | 2°16 | 20°16 | 8° 9 | 24°54 | 23°22 | 21°54 | 25° 4 | 25° 6 | S 27 |
| S 28 | 4 31 2 | 6°46'43 | 4♒ 1 | 27°22 | 28°16 | 7°33 | 25°42 | 2°23 | 20°13 | 8° 9 | 24°53 | 23°16 | 21°51 | 25°11 | 25° 3 | S 28 |
| M29 | 4 34 59 | 7°47'38 | 17°15 | 27°53 | 29°31 | 8°13 | 25°53 | 2°29 | 20°11 | 8° 9 | 24°52 | 23°12 | 21°48 | 25°17 | 25° 0 | M29 |
| T 30 | 4 38 55 | 8♐48'33 | 0♓44 | 28♐17 | 0♑46 | 8♏53 | 26♑ 5 | 2♏35 | 20♉ 9 | 8♓10 | 24♋51 | 23♈10 | 21♈45 | 25♎24 | 24♉56 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 14s41 | 23s29 | 5s 9 | 20s14 | 1s34 | 18s59 | 0s 2 | 6s59 | 0n46 | 22s20 | 0s31 | 9s 8 | 2n15 | 17n50 | 0s18 | 9s24 | 0s57 | 23n28 | 2n21 | 9n23 | 9n 4 | 8s34 | 15n54 | 3s37 |
| T 2 | 15 0 | 19 6 | 4 43 | 20 41 | 1 39 | 19 19 | 0 5 | 7 14 | 0 45 | 22 19 | 0 31 | 9 10 | 2 15 | 17 50 | 0 18 | 9 24 | 0 57 | 23 28 | 2 22 | 9 23 | 9 3 | 8 37 | 15 53 | 3 38 |
| W 3 | 15 19 | 13 36 | 4 1 | 21 8 | 1 45 | 19 39 | 0 7 | 7 29 | 0 45 | 22 18 | 0 31 | 9 13 | 2 15 | 17 49 | 0 18 | 9 24 | 0 57 | 23 28 | 2 22 | 9 23 | 9 1 | 8 40 | 15 52 | 3 38 |
| T 4 | 15 38 | 7 13 | 3 3 | 21 33 | 1 50 | 19 59 | 0 10 | 7 44 | 0 44 | 22 16 | 0 32 | 9 15 | 2 16 | 17 48 | 0 18 | 9 24 | 0 57 | 23 29 | 2 22 | 9 23 | 9 0 | 8 44 | 15 51 | 3 38 |
| F 5 | 15 56 | 0 19 | 1 52 | 21 57 | 1 55 | 20 18 | 0 12 | 8 0 | 0 44 | 22 15 | 0 32 | 9 18 | 2 16 | 17 48 | 0 18 | 9 24 | 0 57 | 23 29 | 2 22 | 9 24 | 8 59 | 8 47 | 15 50 | 3 38 |
| S 6 | 16 14 | 6n46 | 0 32 | 22 21 | 1 59 | 20 36 | 0 15 | 8 15 | 0 44 | 22 13 | 0 32 | 9 20 | 2 16 | 17 47 | 0 18 | 9 24 | 0 57 | 23 29 | 2 22 | 9 24 | 8 58 | 8 50 | 15 49 | 3 38 |
| S 7 | 16 31 | 13 32 | 0n51 | 22 43 | 2 4 | 20 54 | 0 17 | 8 30 | 0 43 | 22 12 | 0 32 | 9 23 | 2 16 | 17 46 | 0 18 | 9 25 | 0 57 | 23 29 | 2 22 | 9 24 | 8 57 | 8 54 | 15 48 | 3 38 |
| M 8 | 16 49 | 19 31 | 2 11 | 23 4 | 2 8 | 21 11 | 0 20 | 8 45 | 0 43 | 22 10 | 0 32 | 9 25 | 2 16 | 17 46 | 0 18 | 9 25 | 0 57 | 23 29 | 2 22 | 9 24 | 8 55 | 8 57 | 15 47 | 3 39 |
| T 9 | 17 6 | 24 13 | 3 21 | 23 24 | 2 12 | 21 27 | 0 22 | 9 0 | 0 42 | 22 9 | 0 32 | 9 27 | 2 16 | 17 45 | 0 18 | 9 25 | 0 57 | 23 29 | 2 22 | 9 23 | 8 54 | 9 0 | 15 46 | 3 39 |
| W10 | 17 23 | 27 13 | 4 16 | 23 42 | 2 16 | 21 43 | 0 25 | 9 15 | 0 42 | 22 7 | 0 32 | 9 30 | 2 16 | 17 44 | 0 18 | 9 25 | 0 57 | 23 30 | 2 23 | 9 22 | 8 53 | 9 3 | 15 45 | 3 39 |
| T 11 | 17 39 | 28 20 | 4 53 | 24 0 | 2 19 | 21 59 | 0 27 | 9 29 | 0 42 | 22 6 | 0 32 | 9 32 | 2 16 | 17 44 | 0 18 | 9 25 | 0 57 | 23 30 | 2 23 | 9 20 | 8 52 | 9 7 | 15 44 | 3 39 |
| F 12 | 17 56 | 27 36 | 5 12 | 24 16 | 2 22 | 22 13 | 0 30 | 9 44 | 0 41 | 22 4 | 0 32 | 9 34 | 2 16 | 17 43 | 0 18 | 9 25 | 0 57 | 23 30 | 2 23 | 9 19 | 8 51 | 9 10 | 15 44 | 3 39 |
| S 13 | 18 12 | 25 16 | 5 12 | 24 31 | 2 25 | 22 27 | 0 32 | 9 59 | 0 41 | 22 2 | 0 32 | 9 37 | 2 16 | 17 43 | 0 18 | 9 25 | 0 57 | 23 30 | 2 23 | 9 18 | 8 50 | 9 13 | 15 43 | 3 39 |
| S 14 | 18 27 | 21 41 | 4 57 | 24 44 | 2 27 | 22 41 | 0 35 | 10 14 | 0 40 | 22 1 | 0 32 | 9 39 | 2 16 | 17 42 | 0 18 | 9 25 | 0 57 | 23 30 | 2 23 | 9 17 | 8 48 | 9 17 | 15 42 | 3 39 |
| M15 | 18 43 | 17 13 | 4 28 | 24 56 | 2 29 | 22 53 | 0 37 | 10 28 | 0 40 | 21 59 | 0 32 | 9 42 | 2 16 | 17 41 | 0 18 | 9 25 | 0 57 | 23 31 | 2 23 | 9 17 | 8 47 | 9 20 | 15 41 | 3 40 |
| T 16 | 18 58 | 12 10 | 3 47 | 25 7 | 2 30 | 23 5 | 0 40 | 10 43 | 0 39 | 21 57 | 0 32 | 9 44 | 2 16 | 17 41 | 0 18 | 9 25 | 0 57 | 23 31 | 2 23 | 9 17 | 8 46 | 9 23 | 15 40 | 3 40 |
| W17 | 19 12 | 6 45 | 2 56 | 25 16 | 2 31 | 23 17 | 0 42 | 10 57 | 0 39 | 21 56 | 0 32 | 9 46 | 2 16 | 17 40 | 0 18 | 9 25 | 0 57 | 23 31 | 2 23 | 9 18 | 8 45 | 9 26 | 15 39 | 3 40 |
| T 18 | 19 26 | 1 9 | 1 59 | 25 24 | 2 31 | 23 28 | 0 44 | 11 12 | 0 39 | 21 54 | 0 32 | 9 48 | 2 16 | 17 39 | 0 18 | 9 25 | 0 57 | 23 31 | 2 24 | 9 19 | 8 44 | 9 30 | 15 38 | 3 40 |
| F 19 | 19 40 | 4s26 | 0 57 | 25 31 | 2 31 | 23 37 | 0 47 | 11 26 | 0 38 | 21 52 | 0 32 | 9 51 | 2 16 | 17 39 | 0 18 | 9 25 | 0 57 | 23 32 | 2 24 | 9 19 | 8 42 | 9 33 | 15 37 | 3 40 |
| S 20 | 19 54 | 9 53 | 0s 7 | 25 35 | 2 30 | 23 47 | 0 49 | 11 40 | 0 38 | 21 50 | 0 32 | 9 53 | 2 17 | 17 38 | 0 18 | 9 25 | 0 57 | 23 32 | 2 24 | 9 19 | 8 41 | 9 36 | 15 36 | 3 40 |
| S 21 | 20 7 | 15 0 | 1 11 | 25 39 | 2 28 | 23 55 | 0 51 | 11 54 | 0 37 | 21 48 | 0 32 | 9 55 | 2 17 | 17 37 | 0 18 | 9 25 | 0 57 | 23 32 | 2 24 | 9 19 | 8 40 | 9 40 | 15 35 | 3 40 |
| M22 | 20 20 | 19 36 | 2 12 | 25 41 | 2 26 | 24 3 | 0 54 | 12 8 | 0 37 | 21 46 | 0 32 | 9 57 | 2 17 | 17 37 | 0 18 | 9 25 | 0 57 | 23 32 | 2 24 | 9 18 | 8 39 | 9 43 | 15 35 | 3 40 |
| T 23 | 20 32 | 23 28 | 3 8 | 25 41 | 2 23 | 24 10 | 0 56 | 12 22 | 0 36 | 21 44 | 0 32 | 10 0 | 2 17 | 17 36 | 0 18 | 9 25 | 0 57 | 23 32 | 2 24 | 9 16 | 8 38 | 9 46 | 15 34 | 3 40 |
| W24 | 20 44 | 26 20 | 3 56 | 25 40 | 2 19 | 24 17 | 0 58 | 12 36 | 0 36 | 21 42 | 0 32 | 10 2 | 2 17 | 17 35 | 0 18 | 9 25 | 0 57 | 23 33 | 2 24 | 9 14 | 8 37 | 9 49 | 15 33 | 3 40 |
| T 25 | 20 56 | 27 58 | 4 33 | 25 37 | 2 14 | 24 22 | 1 0 | 12 50 | 0 35 | 21 40 | 0 32 | 10 4 | 2 17 | 17 35 | 0 18 | 9 25 | 0 57 | 23 33 | 2 24 | 9 11 | 8 35 | 9 53 | 15 32 | 3 40 |
| F 26 | 21 7 | 28 11 | 4 58 | 25 33 | 2 8 | 24 27 | 1 2 | 13 4 | 0 35 | 21 38 | 0 32 | 10 6 | 2 17 | 17 34 | 0 18 | 9 25 | 0 57 | 23 33 | 2 24 | 9 8 | 8 34 | 9 56 | 15 31 | 3 41 |
| S 27 | 21 18 | 26 55 | 5 9 | 25 27 | 2 1 | 24 31 | 1 5 | 13 18 | 0 34 | 21 36 | 0 32 | 10 8 | 2 17 | 17 33 | 0 18 | 9 25 | 0 57 | 23 33 | 2 25 | 9 5 | 8 33 | 9 59 | 15 30 | 3 41 |
| S 28 | 21 29 | 24 12 | 5 4 | 25 20 | 1 52 | 24 35 | 1 7 | 13 31 | 0 34 | 21 34 | 0 32 | 10 10 | 2 17 | 17 33 | 0 18 | 9 24 | 0 57 | 23 34 | 2 25 | 9 3 | 8 32 | 10 2 | 15 30 | 3 41 |
| M29 | 21 39 | 20 10 | 4 42 | 25 11 | 1 43 | 24 38 | 1 9 | 13 45 | 0 33 | 21 32 | 0 32 | 10 12 | 2 18 | 17 32 | 0 18 | 9 24 | 0 57 | 23 34 | 2 25 | 9 2 | 8 31 | 10 6 | 15 29 | 3 41 |
| T 30 | 21s49 | 15s 3 | 4s 5 | 25s 0 | 1s32 | 24s39 | 1s11 | 13s58 | 0n33 | 21s30 | 0s32 | 10s14 | 2n18 | 17n32 | 0s18 | 9s24 | 0s57 | 23n34 | 2n25 | 9n 1 | 8n29 | 10s 9 | 15n28 | 3s41 |

Julian Day Number = 2337894.5, Delta T = 18.97 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'48, Lahiri = 19°30'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1688
# geocentric

## DECEMBER 1688 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 42 52 | 9♐49'29 | 14♓29 | 28♐32 | 2♑ 1 | 9♏34 | 26♑17 | 2♏42 | 20°R 6 | 8♓10 | 24°R51 | 23°D 9 | 21♈42 | 25♎31 | 24°R53 | W 1 |
| T 2 | 4 46 48 | 10°50'25 | 28°31 | 28°R37 | 3°15 | 10°14 | 26°29 | 2°48 | 20♉ 4 | 8°10 | 24♋50 | 23♈10 | 21°39 | 25°37 | 24♉50 | T 2 |
| F 3 | 4 50 45 | 11°51'22 | 12♈49 | 28°33 | 4°30 | 10°54 | 26°41 | 2°54 | 20° 2 | 8°11 | 24°49 | 23°11 | 21°35 | 25°44 | 24°47 | F 3 |
| S 4 | 4 54 42 | 12°52'20 | 27°21 | 28°17 | 5°45 | 11°35 | 26°53 | 3° 0 | 19°59 | 8°11 | 24°48 | 23°R12 | 21°32 | 25°51 | 24°44 | S 4 |
| S 5 | 4 58 38 | 13°53'19 | 12♉ 5 | 27°50 | 7° 0 | 12°15 | 27° 5 | 3° 6 | 19°57 | 8°12 | 24°47 | 23°10 | 21°29 | 25°57 | 24°40 | S 5 |
| M 6 | 5 2 35 | 14°54'18 | 26°54 | 27°11 | 8°15 | 12°55 | 27°17 | 3°12 | 19°55 | 8°13 | 24°46 | 23° 6 | 21°26 | 26° 4 | 24°37 | M 6 |
| T 7 | 5 6 31 | 15°55'19 | 11♊40 | 26°21 | 9°29 | 13°36 | 27°29 | 3°18 | 19°53 | 8°13 | 24°45 | 23° 0 | 21°23 | 26°11 | 24°34 | T 7 |
| W 8 | 5 10 28 | 16°56'20 | 26°17 | 25°21 | 10°44 | 14°16 | 27°42 | 3°24 | 19°51 | 8°14 | 24°44 | 22°52 | 21°20 | 26°17 | 24°31 | W 8 |
| T 9 | 5 14 24 | 17°57'22 | 10♋35 | 24°12 | 11°59 | 14°57 | 27°54 | 3°30 | 19°48 | 8°15 | 24°43 | 22°42 | 21°16 | 26°24 | 24°28 | T 9 |
| F 10 | 5 18 21 | 18°58'24 | 24°31 | 22°56 | 13°14 | 15°37 | 28° 7 | 3°36 | 19°46 | 8°15 | 24°42 | 22°33 | 21°13 | 26°31 | 24°25 | F 10 |
| S 11 | 5 22 17 | 19°59'28 | 8♌ 0 | 21°35 | 14°28 | 16°18 | 28°19 | 3°42 | 19°44 | 8°16 | 24°41 | 22°25 | 21°10 | 26°37 | 24°22 | S 11 |
| S 12 | 5 26 14 | 21° 0'32 | 21° 3 | 20°12 | 15°43 | 16°58 | 28°32 | 3°48 | 19°42 | 8°17 | 24°40 | 22°18 | 21° 7 | 26°44 | 24°19 | S 12 |
| M13 | 5 30 11 | 22° 1'37 | 3♍42 | 18°50 | 16°58 | 17°39 | 28°45 | 3°53 | 19°40 | 8°18 | 24°39 | 22°14 | 21° 4 | 26°51 | 24°16 | M13 |
| T 14 | 5 34 7 | 23° 2'43 | 16° 0 | 17°31 | 18°12 | 18°20 | 28°57 | 3°59 | 19°38 | 8°18 | 24°38 | 22°12 | 21° 0 | 26°57 | 24°13 | T 14 |
| W15 | 5 38 4 | 24° 3'50 | 28° 2 | 16°19 | 19°27 | 19° 0 | 29°10 | 4° 4 | 19°36 | 8°19 | 24°37 | 22°D12 | 20°57 | 27° 4 | 24°10 | W15 |
| T 16 | 5 42 0 | 25° 4'58 | 9♎53 | 15°14 | 20°42 | 19°41 | 29°23 | 4°10 | 19°34 | 8°20 | 24°36 | 22°12 | 20°54 | 27°10 | 24° 8 | T 16 |
| F 17 | 5 45 57 | 26° 6'06 | 21°40 | 14°19 | 21°56 | 20°22 | 29°36 | 4°15 | 19°32 | 8°21 | 24°34 | 22°R13 | 20°51 | 27°17 | 24° 5 | F 17 |
| S 18 | 5 49 53 | 27° 7'15 | 3♏27 | 13°34 | 23°11 | 21° 2 | 29°49 | 4°20 | 19°31 | 8°22 | 24°33 | 22°12 | 20°48 | 27°24 | 24° 2 | S 18 |
| S 19 | 5 53 50 | 28° 8'25 | 15°20 | 12°59 | 24°25 | 21°43 | 0♒ 2 | 4°26 | 19°29 | 8°23 | 24°32 | 22° 9 | 20°45 | 27°30 | 24° 0 | S 19 |
| M20 | 5 57 46 | 29° 9'35 | 27°21 | 12°36 | 25°40 | 22°24 | 0°16 | 4°31 | 19°27 | 8°24 | 24°31 | 22° 4 | 20°41 | 27°37 | 23°57 | M20 |
| T 21 | 6 1 43 | 0♑10'46 | 9♐35 | 12°22 | 26°55 | 23° 5 | 0°29 | 4°36 | 19°25 | 8°25 | 24°30 | 21°56 | 20°38 | 27°44 | 23°54 | T 21 |
| W22 | 6 5 40 | 1°11'57 | 22° 2 | 12°D19 | 28° 9 | 23°46 | 0°42 | 4°41 | 19°24 | 8°26 | 24°29 | 21°45 | 20°35 | 27°50 | 23°52 | W22 |
| T 23 | 6 9 36 | 2°13'08 | 4♑44 | 12°26 | 29°24 | 24°26 | 0°55 | 4°46 | 19°22 | 8°28 | 24°27 | 21°32 | 20°32 | 27°57 | 23°49 | T 23 |
| F 24 | 6 13 33 | 3°14'20 | 17°40 | 12°40 | 0♒38 | 25° 7 | 1° 9 | 4°51 | 19°20 | 8°29 | 24°26 | 21°19 | 20°29 | 28° 4 | 23°47 | F 24 |
| S 25 | 6 17 29 | 4°15'32 | 0♒50 | 13° 3 | 1°53 | 25°48 | 1°22 | 4°56 | 19°19 | 8°30 | 24°25 | 21° 7 | 20°26 | 28°10 | 23°45 | S 25 |
| S 26 | 6 21 26 | 5°16'43 | 14°11 | 13°33 | 3° 7 | 26°29 | 1°36 | 5° 1 | 19°17 | 8°31 | 24°24 | 20°56 | 20°22 | 28°17 | 23°42 | S 26 |
| M27 | 6 25 22 | 6°17'55 | 27°42 | 14° 9 | 4°22 | 27°10 | 1°49 | 5° 5 | 19°16 | 8°32 | 24°22 | 20°48 | 20°19 | 28°24 | 23°40 | M27 |
| T 28 | 6 29 19 | 7°19'06 | 11♓22 | 14°51 | 5°36 | 27°51 | 2° 3 | 5°10 | 19°14 | 8°34 | 24°21 | 20°43 | 20°16 | 28°30 | 23°38 | T 28 |
| W29 | 6 33 16 | 8°20'17 | 25°10 | 15°37 | 6°50 | 28°32 | 2°16 | 5°14 | 19°13 | 8°35 | 24°20 | 20°41 | 20°13 | 28°37 | 23°36 | W29 |
| T 30 | 6 37 12 | 9°21'28 | 9♈ 7 | 16°29 | 8° 5 | 29°13 | 2°30 | 5°19 | 19°11 | 8°36 | 24°19 | 20°D40 | 20°10 | 28°44 | 23°34 | T 30 |
| F 31 | 6 41 9 | 10♑22'38 | 23♈12 | 17♐24 | 9♒19 | 29♏54 | 2♒44 | 5♏23 | 19♉10 | 8♓38 | 24♋17 | 20°R40 | 20♈ 6 | 28♎50 | 23♉32 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21s58 | 9s 6 | 3s14 | 24s48 | 1s20 | 24s41 | 1s13 | 14s11 | 0n32 | 21s28 | 0s32 | 10s16 | 2n18 | 17n31 | 0s18 | 9s24 | 0s57 | 23n35 | 2n25 | 9n 1 | 8n28 | 10s12 | 15n27 | 3s41 |
| T 2 | 22 7 | 2 34 | 2 9 | 24 34 | 1 6 | 24 41 | 1 15 | 14 24 | 0 32 | 21 25 | 0 32 | 10 18 | 2 18 | 17 30 | 0 18 | 9 24 | 0 57 | 23 35 | 2 25 | 9 1 | 8 27 | 10 15 | 15 26 | 3 41 |
| F 3 | 22 15 | 4n13 | 0 56 | 24 19 | 0 51 | 24 41 | 1 16 | 14 38 | 0 31 | 21 23 | 0 32 | 10 20 | 2 18 | 17 30 | 0 18 | 9 24 | 0 57 | 23 35 | 2 25 | 9 2 | 8 26 | 10 19 | 15 25 | 3 41 |
| S 4 | 22 23 | 10 54 | 0n22 | 24 3 | 0 34 | 24 40 | 1 18 | 14 51 | 0 31 | 21 21 | 0 32 | 10 22 | 2 18 | 17 29 | 0 18 | 9 23 | 0 57 | 23 35 | 2 25 | 9 2 | 8 25 | 10 22 | 15 25 | 3 41 |
| S 5 | 22 30 | 17 4 | 1 40 | 23 45 | 0 17 | 24 38 | 1 20 | 15 3 | 0 30 | 21 18 | 0 32 | 10 24 | 2 18 | 17 29 | 0 18 | 9 23 | 0 57 | 23 36 | 2 26 | 9 1 | 8 23 | 10 25 | 15 24 | 3 41 |
| M 6 | 22 38 | 22 16 | 2 51 | 23 25 | 0n 2 | 24 35 | 1 22 | 15 16 | 0 30 | 21 16 | 0 32 | 10 26 | 2 18 | 17 28 | 0 18 | 9 23 | 0 57 | 23 36 | 2 26 | 9 0 | 8 22 | 10 28 | 15 23 | 3 41 |
| T 7 | 22 44 | 26 2 | 3 50 | 23 4 | 0 22 | 24 32 | 1 23 | 15 29 | 0 29 | 21 14 | 0 32 | 10 28 | 2 19 | 17 27 | 0 18 | 9 23 | 0 57 | 23 36 | 2 26 | 8 57 | 8 21 | 10 32 | 15 22 | 3 41 |
| W 8 | 22 50 | 27 59 | 4 34 | 22 42 | 0 42 | 24 27 | 1 25 | 15 41 | 0 29 | 21 11 | 0 32 | 10 30 | 2 19 | 17 27 | 0 18 | 9 22 | 0 57 | 23 36 | 2 26 | 8 54 | 8 20 | 10 35 | 15 22 | 3 41 |
| T 9 | 22 56 | 28 1 | 4 59 | 22 19 | 1 2 | 24 23 | 1 26 | 15 54 | 0 28 | 21 9 | 0 32 | 10 32 | 2 19 | 17 26 | 0 18 | 9 22 | 0 57 | 23 37 | 2 26 | 8 51 | 8 19 | 10 38 | 15 21 | 3 41 |
| F 10 | 23 1 | 26 16 | 5 5 | 21 56 | 1 22 | 24 17 | 1 28 | 16 6 | 0 28 | 21 6 | 0 32 | 10 34 | 2 19 | 17 26 | 0 17 | 9 22 | 0 56 | 23 37 | 2 26 | 8 47 | 8 18 | 10 41 | 15 20 | 3 41 |
| S 11 | 23 6 | 23 2 | 4 54 | 21 32 | 1 41 | 24 11 | 1 29 | 16 18 | 0 27 | 21 4 | 0 32 | 10 35 | 2 19 | 17 25 | 0 17 | 9 21 | 0 56 | 23 37 | 2 26 | 8 44 | 8 16 | 10 45 | 15 20 | 3 41 |
| S 12 | 23 11 | 18 44 | 4 28 | 21 9 | 1 58 | 24 3 | 1 31 | 16 30 | 0 27 | 21 1 | 0 32 | 10 37 | 2 19 | 17 25 | 0 17 | 9 21 | 0 56 | 23 38 | 2 26 | 8 42 | 8 15 | 10 48 | 15 19 | 3 41 |
| M13 | 23 14 | 13 44 | 3 50 | 20 47 | 2 14 | 23 56 | 1 32 | 16 42 | 0 26 | 20 59 | 0 33 | 10 39 | 2 19 | 17 24 | 0 17 | 9 21 | 0 56 | 23 38 | 2 26 | 8 40 | 8 14 | 10 51 | 15 18 | 3 41 |
| T 14 | 23 18 | 8 19 | 3 1 | 20 26 | 2 28 | 23 47 | 1 33 | 16 54 | 0 26 | 20 56 | 0 33 | 10 41 | 2 20 | 17 24 | 0 17 | 9 20 | 0 56 | 23 38 | 2 26 | 8 40 | 8 13 | 10 54 | 15 17 | 3 41 |
| W15 | 23 21 | 2 42 | 2 6 | 20 8 | 2 39 | 23 38 | 1 35 | 17 6 | 0 25 | 20 54 | 0 33 | 10 42 | 2 20 | 17 23 | 0 17 | 9 20 | 0 56 | 23 39 | 2 27 | 8 39 | 8 12 | 10 57 | 15 17 | 3 41 |
| T 16 | 23 23 | 2s55 | 1 5 | 19 52 | 2 49 | 23 28 | 1 36 | 17 18 | 0 25 | 20 51 | 0 33 | 10 44 | 2 20 | 17 23 | 0 17 | 9 20 | 0 56 | 23 39 | 2 27 | 8 40 | 8 10 | 11 1 | 15 16 | 3 41 |
| F 17 | 23 25 | 8 25 | 0 3 | 19 39 | 2 55 | 23 17 | 1 37 | 17 29 | 0 24 | 20 48 | 0 33 | 10 46 | 2 20 | 17 22 | 0 17 | 9 19 | 0 56 | 23 39 | 2 27 | 8 40 | 8 9 | 11 4 | 15 16 | 3 41 |
| S 18 | 23 27 | 13 37 | 1s 0 | 19 30 | 3 0 | 23 6 | 1 38 | 17 40 | 0 23 | 20 45 | 0 33 | 10 47 | 2 20 | 17 22 | 0 17 | 9 19 | 0 56 | 23 39 | 2 27 | 8 40 | 8 8 | 11 7 | 15 15 | 3 41 |
| S 19 | 23 28 | 18 22 | 2 0 | 19 23 | 3 2 | 22 53 | 1 39 | 17 52 | 0 23 | 20 43 | 0 33 | 10 49 | 2 20 | 17 21 | 0 17 | 9 19 | 0 56 | 23 40 | 2 27 | 8 39 | 8 7 | 11 10 | 15 14 | 3 41 |
| M20 | 23 29 | 22 27 | 2 56 | 19 20 | 3 2 | 22 41 | 1 40 | 18 3 | 0 22 | 20 40 | 0 33 | 10 50 | 2 21 | 17 21 | 0 17 | 9 18 | 0 56 | 23 40 | 2 27 | 8 37 | 8 6 | 11 13 | 15 14 | 3 41 |
| T 21 | 23 29 | 25 37 | 3 44 | 19 20 | 3 1 | 22 27 | 1 40 | 18 14 | 0 22 | 20 37 | 0 33 | 10 52 | 2 21 | 17 20 | 0 17 | 9 18 | 0 56 | 23 40 | 2 27 | 8 33 | 8 4 | 11 17 | 15 13 | 3 41 |
| W22 | 23 29 | 27 36 | 4 22 | 19 22 | 2 58 | 22 13 | 1 41 | 18 24 | 0 21 | 20 34 | 0 33 | 10 54 | 2 21 | 17 20 | 0 17 | 9 17 | 0 56 | 23 41 | 2 27 | 8 29 | 8 3 | 11 20 | 15 13 | 3 40 |
| T 23 | 23 28 | 28 12 | 4 49 | 19 27 | 2 54 | 21 58 | 1 42 | 18 35 | 0 20 | 20 31 | 0 33 | 10 55 | 2 21 | 17 19 | 0 17 | 9 17 | 0 56 | 23 41 | 2 27 | 8 25 | 8 2 | 11 23 | 15 12 | 3 40 |
| F 24 | 23 27 | 27 17 | 5 1 | 19 34 | 2 49 | 21 43 | 1 42 | 18 46 | 0 20 | 20 29 | 0 33 | 10 56 | 2 21 | 17 19 | 0 17 | 9 16 | 0 56 | 23 41 | 2 27 | 8 20 | 8 1 | 11 26 | 15 12 | 3 40 |
| S 25 | 23 25 | 24 50 | 4 57 | 19 43 | 2 43 | 21 27 | 1 43 | 18 56 | 0 19 | 20 26 | 0 33 | 10 58 | 2 22 | 17 19 | 0 17 | 9 16 | 0 56 | 23 42 | 2 28 | 8 15 | 8 0 | 11 30 | 15 11 | 3 40 |
| S 26 | 23 23 | 21 1 | 4 37 | 19 53 | 2 36 | 21 10 | 1 43 | 19 6 | 0 19 | 20 23 | 0 33 | 10 59 | 2 22 | 17 18 | 0 17 | 9 15 | 0 56 | 23 42 | 2 28 | 8 11 | 7 58 | 11 33 | 15 11 | 3 40 |
| M27 | 23 20 | 16 4 | 4 2 | 20 4 | 2 29 | 20 53 | 1 44 | 19 16 | 0 18 | 20 20 | 0 33 | 11 1 | 2 22 | 17 18 | 0 17 | 9 15 | 0 56 | 23 42 | 2 28 | 8 8 | 7 57 | 11 36 | 15 10 | 3 40 |
| T 28 | 23 17 | 10 16 | 3 12 | 20 17 | 2 21 | 20 35 | 1 44 | 19 26 | 0 17 | 20 17 | 0 33 | 11 2 | 2 22 | 17 17 | 0 17 | 9 14 | 0 56 | 23 43 | 2 28 | 8 6 | 7 56 | 11 39 | 15 10 | 3 40 |
| W29 | 23 13 | 3 55 | 2 11 | 20 30 | 2 13 | 20 16 | 1 44 | 19 36 | 0 17 | 20 14 | 0 33 | 11 3 | 2 22 | 17 17 | 0 17 | 9 14 | 0 56 | 23 43 | 2 28 | 8 5 | 7 55 | 11 42 | 15 9 | 3 40 |
| T 30 | 23 9 | 2n41 | 1 1 | 20 44 | 2 5 | 19 57 | 1 44 | 19 45 | 0 16 | 20 11 | 0 33 | 11 5 | 2 22 | 17 17 | 0 17 | 9 13 | 0 56 | 23 43 | 2 28 | 8 5 | 7 54 | 11 46 | 15 9 | 3 40 |
| F 31 | 23s 5 | 9n14 | 0n13 | 20s58 | 1n56 | 19s38 | 1s44 | 19s55 | 0n16 | 20s 8 | 0s33 | 11s 6 | 2n23 | 17n16 | 0s17 | 9s13 | 0s56 | 23n43 | 2n28 | 8n 5 | 7n52 | 11s49 | 15n 8 | 3s40 |

Julian Day Number = 2337924.5, Delta T = 18.93 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'52, Lahiri = 19°30'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## JANUARY 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 45 5 | 11♑23'48 | 7♉24 | 18♐23 | 10♒33 | 0♐35 | 2♒58 | 5♏28 | 19°R 9 | 8♓39 | 24°R16 | 20°R39 | 20♈ 3 | 28♎57 | 23°R30 | S 1 |
| S 2 | 6 49 2 | 12°24'58 | 21°42 | 19°26 | 11°48 | 1°16 | 3°11 | 5°32 | 19♉ 8 | 8°41 | 24♋15 | 20♈37 | 20° 0 | 29° 3 | 23♉28 | S 2 |
| M 3 | 6 52 58 | 13°26'07 | 6♊ 4 | 20°31 | 13° 2 | 1°58 | 3°25 | 5°36 | 19° 6 | 8°42 | 24°13 | 20°31 | 19°57 | 29°10 | 23°26 | M 3 |
| T 4 | 6 56 55 | 14°27'16 | 20°24 | 21°38 | 14°16 | 2°39 | 3°39 | 5°40 | 19° 5 | 8°44 | 24°12 | 20°22 | 19°54 | 29°17 | 23°24 | T 4 |
| W 5 | 7 0 51 | 15°28'25 | 4♋38 | 22°48 | 15°30 | 3°20 | 3°53 | 5°44 | 19° 4 | 8°45 | 24°11 | 20°11 | 19°51 | 29°23 | 23°22 | W 5 |
| T 6 | 7 4 48 | 16°29'33 | 18°40 | 24° 0 | 16°44 | 4° 1 | 4° 7 | 5°48 | 19° 3 | 8°47 | 24°10 | 19°58 | 19°47 | 29°30 | 23°21 | T 6 |
| F 7 | 7 8 45 | 17°30'41 | 2♌24 | 25°14 | 17°59 | 4°42 | 4°21 | 5°52 | 19° 2 | 8°48 | 24° 8 | 19°45 | 19°44 | 29°37 | 23°19 | F 7 |
| S 8 | 7 12 41 | 18°31'48 | 15°47 | 26°30 | 19°13 | 5°24 | 4°35 | 5°55 | 19° 1 | 8°50 | 24° 7 | 19°33 | 19°41 | 29°43 | 23°18 | S 8 |
| S 9 | 7 16 38 | 19°32'55 | 28°48 | 27°47 | 20°27 | 6° 5 | 4°49 | 5°59 | 19° 0 | 8°51 | 24° 6 | 19°23 | 19°38 | 29°50 | 23°16 | S 9 |
| M10 | 7 20 34 | 20°34'02 | 11♍27 | 29° 5 | 21°41 | 6°46 | 5° 3 | 6° 2 | 18°59 | 8°53 | 24° 4 | 19°16 | 19°35 | 29°57 | 23°15 | M10 |
| T 11 | 7 24 31 | 21°35'08 | 23°46 | 0♑25 | 22°55 | 7°28 | 5°17 | 6° 6 | 18°59 | 8°55 | 24° 3 | 19°12 | 19°32 | 0♏ 3 | 23°13 | T 11 |
| W12 | 7 28 27 | 22°36'15 | 5♎50 | 1°46 | 24° 8 | 8° 9 | 5°31 | 6° 9 | 18°58 | 8°56 | 24° 2 | 19°10 | 19°28 | 0°10 | 23°12 | W12 |
| T 13 | 7 32 24 | 23°37'21 | 17°43 | 3° 8 | 25°22 | 8°50 | 5°45 | 6°12 | 18°57 | 8°58 | 24° 0 | 19°10 | 19°25 | 0°17 | 23°11 | T 13 |
| F 14 | 7 36 20 | 24°38'26 | 29°31 | 4°31 | 26°36 | 9°32 | 5°59 | 6°15 | 18°57 | 9° 0 | 23°59 | 19°10 | 19°22 | 0°23 | 23°10 | F 14 |
| S 15 | 7 40 17 | 25°39'32 | 11♏19 | 5°55 | 27°50 | 10°13 | 6°13 | 6°19 | 18°56 | 9° 2 | 23°58 | 19° 9 | 19°19 | 0°30 | 23° 9 | S 15 |
| S 16 | 7 44 14 | 26°40'36 | 23°14 | 7°20 | 29° 4 | 10°55 | 6°28 | 6°22 | 18°55 | 9° 3 | 23°56 | 19° 6 | 19°16 | 0°37 | 23° 8 | S 16 |
| M17 | 7 48 10 | 27°41'41 | 5♐19 | 8°45 | 0♓17 | 11°36 | 6°42 | 6°24 | 18°55 | 9° 5 | 23°55 | 19° 1 | 19°12 | 0°43 | 23° 7 | M17 |
| T 18 | 7 52 7 | 28°42'45 | 17°39 | 10°12 | 1°31 | 12°18 | 6°56 | 6°27 | 18°54 | 9° 7 | 23°54 | 18°53 | 19° 9 | 0°50 | 23° 6 | T 18 |
| W19 | 7 56 3 | 29°43'48 | 0♑17 | 11°39 | 2°45 | 12°59 | 7°10 | 6°30 | 18°54 | 9° 9 | 23°52 | 18°42 | 19° 6 | 0°56 | 23° 5 | W19 |
| T 20 | 8 0 0 | 0♒44'51 | 13°14 | 13° 7 | 3°58 | 13°41 | 7°25 | 6°32 | 18°54 | 9°11 | 23°51 | 18°30 | 19° 3 | 1° 3 | 23° 4 | T 20 |
| F 21 | 8 3 56 | 1°45'53 | 26°30 | 14°36 | 5°12 | 14°23 | 7°39 | 6°35 | 18°53 | 9°13 | 23°50 | 18°17 | 19° 0 | 1°10 | 23° 4 | F 21 |
| S 22 | 8 7 53 | 2°46'55 | 10♒ 3 | 16° 6 | 6°25 | 15° 4 | 7°53 | 6°37 | 18°53 | 9°15 | 23°48 | 18° 4 | 18°57 | 1°16 | 23° 3 | S 22 |
| S 23 | 8 11 49 | 3°47'55 | 23°50 | 17°36 | 7°39 | 15°46 | 8° 7 | 6°40 | 18°53 | 9°17 | 23°47 | 17°53 | 18°53 | 1°23 | 23° 2 | S 23 |
| M24 | 8 15 46 | 4°48'54 | 7♓47 | 19° 7 | 8°52 | 16°28 | 8°22 | 6°42 | 18°53 | 9°18 | 23°46 | 17°45 | 18°50 | 1°30 | 23° 2 | M24 |
| T 25 | 8 19 43 | 5°49'52 | 21°50 | 20°39 | 10° 5 | 17° 9 | 8°36 | 6°44 | 18°53 | 9°20 | 23°44 | 17°40 | 18°47 | 1°36 | 23° 2 | T 25 |
| W26 | 8 23 39 | 6°50'48 | 5♈57 | 22°11 | 11°18 | 17°51 | 8°50 | 6°46 | 18°D53 | 9°22 | 23°43 | 17°37 | 18°44 | 1°43 | 23° 1 | W26 |
| T 27 | 8 27 36 | 7°51'43 | 20° 4 | 23°44 | 12°32 | 18°33 | 9° 5 | 6°48 | 18°53 | 9°24 | 23°42 | 17°D37 | 18°41 | 1°50 | 23° 1 | T 27 |
| F 28 | 8 31 32 | 8°52'37 | 4♉10 | 25°18 | 13°45 | 19°15 | 9°19 | 6°50 | 18°53 | 9°26 | 23°41 | 17°R37 | 18°38 | 1°56 | 23° 1 | F 28 |
| S 29 | 8 35 29 | 9°53'30 | 18°15 | 26°53 | 14°58 | 19°56 | 9°33 | 6°51 | 18°53 | 9°28 | 23°39 | 17°37 | 18°34 | 2° 3 | 23° 1 | S 29 |
| S 30 | 8 39 25 | 10°54'21 | 2♊17 | 28°28 | 16°11 | 20°38 | 9°47 | 6°53 | 18°53 | 9°30 | 23°38 | 17°35 | 18°31 | 2°10 | 23°D 1 | S 30 |
| M31 | 8 43 22 | 11♒55'11 | 16♊16 | 0♒ 4 | 17♓24 | 21♐20 | 10♒ 2 | 6♏54 | 18♉54 | 9♓33 | 23♋37 | 17♈31 | 18♈28 | 2♏16 | 23♉ 1 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 0 | 15n23 | 1n27 | 21s12 | 1n47 | 19s18 | 1s44 | 20s 4 | 0n15 | 20s 4 | 0s33 | 11s 7 | 2n23 | 17n16 | 0s17 | 9s12 | 0s56 | 23n44 | 2n28 | 8n 5 | 7n51 | 11s52 | 15n 8 | 3s40 |
| S 2 | 22 54 | 20 44 | 2 36 | 21 26 | 1 38 | 18 57 | 1 44 | 20 13 | 0 14 | 20 1 | 0 33 | 11 8 | 2 23 | 17 16 | 0 17 | 9 12 | 0 56 | 23 44 | 2 28 | 8 4 | 7 50 | 11 55 | 15 8 | 3 40 |
| M 3 | 22 48 | 24 53 | 3 35 | 21 39 | 1 29 | 18 36 | 1 44 | 20 22 | 0 14 | 19 58 | 0 34 | 11 9 | 2 23 | 17 15 | 0 17 | 9 11 | 0 56 | 23 44 | 2 28 | 8 2 | 7 49 | 11 58 | 15 7 | 3 39 |
| T 4 | 22 42 | 27 28 | 4 21 | 21 53 | 1 20 | 18 14 | 1 44 | 20 31 | 0 13 | 19 55 | 0 34 | 11 11 | 2 24 | 17 15 | 0 17 | 9 11 | 0 56 | 23 45 | 2 28 | 7 58 | 7 48 | 12 1 | 15 7 | 3 39 |
| W 5 | 22 35 | 28 13 | 4 49 | 22 6 | 1 12 | 17 52 | 1 43 | 20 39 | 0 12 | 19 52 | 0 34 | 11 12 | 2 24 | 17 15 | 0 17 | 9 10 | 0 56 | 23 45 | 2 28 | 7 54 | 7 46 | 12 5 | 15 7 | 3 39 |
| T 6 | 22 28 | 27 8 | 5 0 | 22 18 | 1 3 | 17 29 | 1 43 | 20 48 | 0 12 | 19 48 | 0 34 | 11 13 | 2 24 | 17 15 | 0 17 | 9 9 | 0 56 | 23 45 | 2 29 | 7 49 | 7 45 | 12 8 | 15 6 | 3 39 |
| F 7 | 22 20 | 24 25 | 4 53 | 22 30 | 0 54 | 17 6 | 1 42 | 20 56 | 0 11 | 19 45 | 0 34 | 11 14 | 2 24 | 17 14 | 0 17 | 9 9 | 0 56 | 23 46 | 2 29 | 7 44 | 7 44 | 12 11 | 15 6 | 3 39 |
| S 8 | 22 12 | 20 25 | 4 30 | 22 41 | 0 45 | 16 42 | 1 42 | 21 4 | 0 10 | 19 42 | 0 34 | 11 15 | 2 24 | 17 14 | 0 17 | 9 8 | 0 56 | 23 46 | 2 29 | 7 40 | 7 43 | 12 14 | 15 6 | 3 39 |
| S 9 | 22 3 | 15 33 | 3 53 | 22 51 | 0 36 | 16 18 | 1 41 | 21 12 | 0 10 | 19 39 | 0 34 | 11 16 | 2 25 | 17 14 | 0 17 | 9 8 | 0 56 | 23 46 | 2 29 | 7 36 | 7 42 | 12 17 | 15 5 | 3 39 |
| M10 | 21 54 | 10 8 | 3 5 | 23 1 | 0 28 | 15 53 | 1 40 | 21 20 | 0 9 | 19 35 | 0 34 | 11 17 | 2 25 | 17 14 | 0 17 | 9 7 | 0 56 | 23 47 | 2 29 | 7 33 | 7 40 | 12 20 | 15 5 | 3 39 |
| T 11 | 21 45 | 4 28 | 2 10 | 23 9 | 0 20 | 15 28 | 1 40 | 21 27 | 0 8 | 19 32 | 0 34 | 11 18 | 2 25 | 17 13 | 0 17 | 9 6 | 0 56 | 23 47 | 2 29 | 7 32 | 7 39 | 12 24 | 15 5 | 3 39 |
| W12 | 21 35 | 1s15 | 1 10 | 23 17 | 0 11 | 15 3 | 1 39 | 21 35 | 0 8 | 19 29 | 0 34 | 11 19 | 2 25 | 17 13 | 0 17 | 9 6 | 0 56 | 23 47 | 2 29 | 7 31 | 7 38 | 12 27 | 15 5 | 3 38 |
| T 13 | 21 25 | 6 51 | 0 8 | 23 24 | 0 3 | 14 37 | 1 38 | 21 42 | 0 7 | 19 25 | 0 34 | 11 19 | 2 26 | 17 13 | 0 17 | 9 5 | 0 56 | 23 48 | 2 29 | 7 31 | 7 37 | 12 30 | 15 5 | 3 38 |
| F 14 | 21 14 | 12 10 | 0s55 | 23 29 | 0s 5 | 14 11 | 1 37 | 21 49 | 0 6 | 19 22 | 0 34 | 11 20 | 2 26 | 17 13 | 0 17 | 9 4 | 0 56 | 23 48 | 2 29 | 7 31 | 7 36 | 12 33 | 15 4 | 3 38 |
| S 15 | 21 3 | 17 4 | 1 55 | 23 33 | 0 13 | 13 45 | 1 36 | 21 56 | 0 5 | 19 18 | 0 34 | 11 21 | 2 26 | 17 13 | 0 17 | 9 4 | 0 56 | 23 48 | 2 29 | 7 31 | 7 34 | 12 36 | 15 4 | 3 38 |
| S 16 | 20 51 | 21 21 | 2 50 | 23 37 | 0 20 | 13 18 | 1 34 | 22 3 | 0 5 | 19 15 | 0 34 | 11 22 | 2 26 | 17 13 | 0 17 | 9 3 | 0 56 | 23 48 | 2 29 | 7 30 | 7 33 | 12 39 | 15 4 | 3 38 |
| M17 | 20 40 | 24 48 | 3 39 | 23 39 | 0 27 | 12 50 | 1 33 | 22 9 | 0 4 | 19 11 | 0 34 | 11 22 | 2 26 | 17 13 | 0 17 | 9 2 | 0 56 | 23 49 | 2 29 | 7 28 | 7 32 | 12 43 | 15 4 | 3 38 |
| T 18 | 20 27 | 27 11 | 4 18 | 23 40 | 0 35 | 12 23 | 1 32 | 22 15 | 0 3 | 19 8 | 0 35 | 11 23 | 2 27 | 17 12 | 0 17 | 9 2 | 0 56 | 23 49 | 2 29 | 7 25 | 7 31 | 12 46 | 15 4 | 3 38 |
| W19 | 20 15 | 28 14 | 4 46 | 23 40 | 0 42 | 11 55 | 1 30 | 22 21 | 0 3 | 19 4 | 0 35 | 11 24 | 2 27 | 17 12 | 0 17 | 9 1 | 0 56 | 23 49 | 2 29 | 7 21 | 7 30 | 12 49 | 15 4 | 3 38 |
| T 20 | 20 2 | 27 47 | 4 59 | 23 38 | 0 48 | 11 27 | 1 29 | 22 27 | 0 2 | 19 1 | 0 35 | 11 24 | 2 27 | 17 12 | 0 17 | 9 0 | 0 56 | 23 50 | 2 30 | 7 16 | 7 28 | 12 52 | 15 4 | 3 37 |
| F 21 | 19 48 | 25 46 | 4 58 | 23 35 | 0 55 | 10 58 | 1 27 | 22 33 | 0 1 | 18 57 | 0 35 | 11 25 | 2 27 | 17 12 | 0 17 | 8 59 | 0 56 | 23 50 | 2 30 | 7 11 | 7 27 | 12 55 | 15 4 | 3 37 |
| S 22 | 19 34 | 22 14 | 4 39 | 23 31 | 1 1 | 10 30 | 1 25 | 22 38 | 0 0 | 18 53 | 0 35 | 11 26 | 2 28 | 17 12 | 0 17 | 8 59 | 0 56 | 23 50 | 2 30 | 7 6 | 7 26 | 12 58 | 15 4 | 3 37 |
| S 23 | 19 20 | 17 26 | 4 4 | 23 26 | 1 7 | 10 1 | 1 23 | 22 44 | 0s 0 | 18 50 | 0 35 | 11 26 | 2 28 | 17 12 | 0 17 | 8 58 | 0 56 | 23 50 | 2 30 | 7 2 | 7 25 | 13 1 | 15 4 | 3 37 |
| M24 | 19 6 | 11 40 | 3 14 | 23 19 | 1 13 | 9 31 | 1 22 | 22 49 | 0 1 | 18 46 | 0 35 | 11 27 | 2 28 | 17 12 | 0 17 | 8 57 | 0 56 | 23 51 | 2 30 | 6 59 | 7 24 | 13 4 | 15 4 | 3 37 |
| T 25 | 18 51 | 5 16 | 2 12 | 23 11 | 1 18 | 9 2 | 1 20 | 22 54 | 0 2 | 18 42 | 0 35 | 11 27 | 2 28 | 17 12 | 0 17 | 8 57 | 0 56 | 23 51 | 2 30 | 6 57 | 7 22 | 13 8 | 15 4 | 3 37 |
| W26 | 18 36 | 1n25 | 1 2 | 23 2 | 1 24 | 8 32 | 1 18 | 22 58 | 0 3 | 18 39 | 0 35 | 11 27 | 2 29 | 17 12 | 0 17 | 8 56 | 0 56 | 23 51 | 2 30 | 6 56 | 7 21 | 13 11 | 15 4 | 3 37 |
| T 27 | 18 20 | 8 3 | 0n13 | 22 51 | 1 29 | 8 2 | 1 16 | 23 3 | 0 3 | 18 35 | 0 35 | 11 28 | 2 29 | 17 12 | 0 16 | 8 55 | 0 56 | 23 52 | 2 30 | 6 56 | 7 20 | 13 14 | 15 4 | 3 36 |
| F 28 | 18 4 | 14 18 | 1 27 | 22 39 | 1 34 | 7 32 | 1 13 | 23 7 | 0 4 | 18 31 | 0 35 | 11 28 | 2 29 | 17 12 | 0 16 | 8 54 | 0 56 | 23 52 | 2 30 | 6 56 | 7 19 | 13 17 | 15 4 | 3 36 |
| S 29 | 17 48 | 19 47 | 2 35 | 22 25 | 1 38 | 7 2 | 1 11 | 23 11 | 0 5 | 18 28 | 0 35 | 11 29 | 2 29 | 17 12 | 0 16 | 8 53 | 0 56 | 23 52 | 2 30 | 6 56 | 7 17 | 13 20 | 15 4 | 3 36 |
| S 30 | 17 32 | 24 9 | 3 34 | 22 10 | 1 42 | 6 31 | 1 9 | 23 15 | 0 6 | 18 24 | 0 35 | 11 29 | 2 30 | 17 12 | 0 16 | 8 53 | 0 56 | 23 52 | 2 30 | 6 55 | 7 16 | 13 23 | 15 4 | 3 36 |
| M31 | 17s15 | 27n 5 | 4n20 | 21s54 | 1s46 | 6s 0 | 1s 6 | 23s19 | 0s 7 | 18s20 | 0s36 | 11s29 | 2n30 | 17n13 | 0s16 | 8s52 | 0s56 | 23n53 | 2n30 | 6n53 | 7n15 | 13s26 | 15n 5 | 3s36 |

Julian Day Number = 2337955.5, Delta T = 18.89 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°23'57, Lahiri = 19°30'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## FEBRUARY 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 47 18 | 12♒55'59 | 0♋ 9 | 1♒41 | 18♓36 | 22♐ 2 | 10♒16 | 6♏56 | 18♉54 | 9♓35 | 23°R36 | 17°R24 | 18♈25 | 2♏23 | 23♉ 1 | T 1 |
| W 2 | 8 51 15 | 13°56'46 | 13°55 | 3°18 | 19°49 | 22°44 | 10°30 | 6°57 | 18°54 | 9°37 | 23♋34 | 17♈14 | 18°22 | 2°30 | 23° 1 | W 2 |
| T 3 | 8 55 12 | 14°57'31 | 27°30 | 4°56 | 21° 2 | 23°26 | 10°45 | 6°58 | 18°55 | 9°39 | 23°33 | 17° 3 | 18°18 | 2°36 | 23° 1 | T 3 |
| F 4 | 8 59 8 | 15°58'15 | 10♌51 | 6°35 | 22°14 | 24° 7 | 10°59 | 6°59 | 18°55 | 9°41 | 23°32 | 16°52 | 18°15 | 2°43 | 23° 2 | F 4 |
| S 5 | 9 3 5 | 16°58'58 | 23°57 | 8°15 | 23°27 | 24°49 | 11°13 | 7° 0 | 18°56 | 9°43 | 23°31 | 16°42 | 18°12 | 2°50 | 23° 2 | S 5 |
| S 6 | 9 7 1 | 17°59'39 | 6♍46 | 9°56 | 24°39 | 25°31 | 11°27 | 7° 1 | 18°56 | 9°45 | 23°29 | 16°34 | 18° 9 | 2°56 | 23° 3 | S 6 |
| M 7 | 9 10 58 | 19° 0'19 | 19°17 | 11°37 | 25°52 | 26°13 | 11°42 | 7° 2 | 18°57 | 9°47 | 23°28 | 16°27 | 18° 6 | 3° 3 | 23° 3 | M 7 |
| T 8 | 9 14 54 | 20° 0'57 | 1♎33 | 13°20 | 27° 4 | 26°55 | 11°56 | 7° 2 | 18°57 | 9°50 | 23°27 | 16°24 | 18° 3 | 3° 9 | 23° 4 | T 8 |
| W 9 | 9 18 51 | 21° 1'34 | 13°36 | 15° 3 | 28°16 | 27°38 | 12°10 | 7° 3 | 18°58 | 9°52 | 23°26 | 16°D23 | 17°59 | 3°16 | 23° 4 | W 9 |
| T 10 | 9 22 47 | 22° 2'10 | 25°29 | 16°47 | 29°28 | 28°20 | 12°24 | 7° 3 | 18°59 | 9°54 | 23°25 | 16°23 | 17°56 | 3°23 | 23° 5 | T 10 |
| F 11 | 9 26 44 | 23° 2'45 | 7♏18 | 18°32 | 0♈40 | 29° 2 | 12°39 | 7° 4 | 19° 0 | 9°56 | 23°24 | 16°24 | 17°53 | 3°29 | 23° 6 | F 11 |
| S 12 | 9 30 41 | 24° 3'19 | 19° 6 | 20°18 | 1°52 | 29°44 | 12°53 | 7° 4 | 19° 1 | 9°58 | 23°23 | 16°R25 | 17°50 | 3°36 | 23° 7 | S 12 |
| S 13 | 9 34 37 | 25° 3'51 | 1♐ 1 | 22° 5 | 3° 4 | 0♑26 | 13° 7 | 7° 4 | 19° 2 | 10° 0 | 23°21 | 16°25 | 17°47 | 3°43 | 23° 8 | S 13 |
| M14 | 9 38 34 | 26° 4'22 | 13° 6 | 23°52 | 4°16 | 1° 8 | 13°21 | 7°R 4 | 19° 3 | 10° 3 | 23°20 | 16°23 | 17°44 | 3°49 | 23° 9 | M14 |
| T 15 | 9 42 30 | 27° 4'52 | 25°27 | 25°41 | 5°28 | 1°50 | 13°35 | 7° 4 | 19° 4 | 10° 5 | 23°19 | 16°19 | 17°40 | 3°56 | 23°10 | T 15 |
| W16 | 9 46 27 | 28° 5'20 | 8♑ 8 | 27°30 | 6°39 | 2°33 | 13°49 | 7° 4 | 19° 5 | 10° 7 | 23°18 | 16°13 | 17°37 | 4° 3 | 23°11 | W16 |
| T 17 | 9 50 23 | 29° 5'47 | 21°12 | 29°21 | 7°51 | 3°15 | 14° 3 | 7° 4 | 19° 6 | 10° 9 | 23°17 | 16° 6 | 17°34 | 4° 9 | 23°12 | T 17 |
| F 18 | 9 54 20 | 0♓ 6'13 | 4♒39 | 1♓12 | 9° 2 | 3°57 | 14°18 | 7° 3 | 19° 7 | 10°12 | 23°16 | 15°58 | 17°31 | 4°16 | 23°14 | F 18 |
| S 19 | 9 58 17 | 1° 6'37 | 18°28 | 3° 4 | 10°13 | 4°39 | 14°32 | 7° 3 | 19° 8 | 10°14 | 23°15 | 15°50 | 17°28 | 4°23 | 23°15 | S 19 |
| S 20 | 10 2 13 | 2° 6'59 | 2♓37 | 4°56 | 11°24 | 5°22 | 14°46 | 7° 2 | 19°10 | 10°16 | 23°14 | 15°43 | 17°24 | 4°29 | 23°16 | S 20 |
| M21 | 10 6 10 | 3° 7'19 | 17° 0 | 6°50 | 12°35 | 6° 4 | 15° 0 | 7° 1 | 19°11 | 10°18 | 23°13 | 15°38 | 17°21 | 4°36 | 23°18 | M21 |
| T 22 | 10 10 6 | 4° 7'38 | 1♈30 | 8°44 | 13°46 | 6°46 | 15°14 | 7° 1 | 19°12 | 10°21 | 23°12 | 15°35 | 17°18 | 4°43 | 23°20 | T 22 |
| W23 | 10 14 3 | 5° 7'55 | 16° 3 | 10°38 | 14°57 | 7°29 | 15°27 | 7° 0 | 19°14 | 10°23 | 23°11 | 15°D35 | 17°15 | 4°49 | 23°21 | W23 |
| T 24 | 10 17 59 | 6° 8'09 | 0♉33 | 12°33 | 16° 8 | 8°11 | 15°41 | 6°59 | 19°15 | 10°25 | 23°10 | 15°35 | 17°12 | 4°56 | 23°23 | T 24 |
| F 25 | 10 21 56 | 7° 8'22 | 14°56 | 14°28 | 17°19 | 8°53 | 15°55 | 6°58 | 19°17 | 10°28 | 23° 9 | 15°37 | 17° 9 | 5° 3 | 23°25 | F 25 |
| S 26 | 10 25 52 | 8° 8'32 | 29° 8 | 16°23 | 18°29 | 9°36 | 16° 9 | 6°56 | 19°18 | 10°30 | 23° 8 | 15°38 | 17° 5 | 5° 9 | 23°27 | S 26 |
| S 27 | 10 29 49 | 9° 8'41 | 13♊ 8 | 18°18 | 19°39 | 10°18 | 16°23 | 6°55 | 19°20 | 10°32 | 23° 8 | 15°R38 | 17° 2 | 5°16 | 23°28 | S 27 |
| M28 | 10 33 45 | 10♓ 8'47 | 26♊57 | 20♓13 | 20♈50 | 11♑ 1 | 16♒37 | 6♏54 | 19♉22 | 10♓34 | 23♋ 7 | 15♈37 | 16♈59 | 5♏22 | 23♉30 | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 16s58 | 28n19 | 4n50 | 21s36 | 1s49 | 5s30 | 1s 4 | 23s22 | 0s 7 | 18s16 | 0s36 | 11s29 | 2n30 | 17n13 | 0s16 | 8s51 | 0s56 | 23n53 | 2n30 | 6n50 | 7n14 | 13s29 | 15n 5 | 3s36 |
| W 2 | 16 40 | 27 46 | 5 3 | 21 17 | 1 53 | 4 59 | 1 1 | 23 25 | 0 8 | 18 13 | 0 36 | 11 29 | 2 30 | 17 13 | 0 16 | 8 50 | 0 56 | 23 53 | 2 30 | 6 47 | 7 13 | 13 33 | 15 5 | 3 35 |
| T 3 | 16 23 | 25 34 | 4 58 | 20 56 | 1 56 | 4 28 | 0 59 | 23 28 | 0 9 | 18 9 | 0 36 | 11 30 | 2 31 | 17 13 | 0 16 | 8 50 | 0 56 | 23 53 | 2 30 | 6 43 | 7 11 | 13 36 | 15 5 | 3 35 |
| F 4 | 16 5 | 21 59 | 4 38 | 20 34 | 1 58 | 3 57 | 0 56 | 23 31 | 0 10 | 18 5 | 0 36 | 11 30 | 2 31 | 17 13 | 0 16 | 8 49 | 0 56 | 23 54 | 2 30 | 6 38 | 7 10 | 13 39 | 15 5 | 3 35 |
| S 5 | 15 46 | 17 22 | 4 2 | 20 10 | 2 0 | 3 25 | 0 53 | 23 34 | 0 11 | 18 1 | 0 36 | 11 30 | 2 31 | 17 13 | 0 16 | 8 48 | 0 56 | 23 54 | 2 30 | 6 35 | 7 9 | 13 42 | 15 6 | 3 35 |
| S 6 | 15 28 | 12 4 | 3 15 | 19 45 | 2 2 | 2 54 | 0 50 | 23 36 | 0 12 | 17 57 | 0 36 | 11 30 | 2 31 | 17 13 | 0 16 | 8 47 | 0 56 | 23 54 | 2 30 | 6 31 | 7 8 | 13 45 | 15 6 | 3 35 |
| M 7 | 15 9 | 6 23 | 2 20 | 19 18 | 2 4 | 2 22 | 0 48 | 23 38 | 0 12 | 17 53 | 0 36 | 11 30 | 2 32 | 17 14 | 0 16 | 8 46 | 0 56 | 23 54 | 2 30 | 6 29 | 7 7 | 13 48 | 15 6 | 3 35 |
| T 8 | 14 50 | 0 35 | 1 19 | 18 50 | 2 5 | 1 51 | 0 45 | 23 40 | 0 13 | 17 49 | 0 36 | 11 30 | 2 32 | 17 14 | 0 16 | 8 45 | 0 56 | 23 55 | 2 30 | 6 28 | 7 5 | 13 51 | 15 7 | 3 35 |
| W 9 | 14 31 | 5s 9 | 0 15 | 18 21 | 2 5 | 1 20 | 0 42 | 23 42 | 0 14 | 17 46 | 0 36 | 11 30 | 2 32 | 17 14 | 0 16 | 8 45 | 0 56 | 23 55 | 2 31 | 6 27 | 7 4 | 13 54 | 15 7 | 3 34 |
| T 10 | 14 11 | 10 38 | 0s49 | 17 50 | 2 5 | 0 48 | 0 39 | 23 43 | 0 15 | 17 42 | 0 36 | 11 30 | 2 32 | 17 14 | 0 16 | 8 44 | 0 56 | 23 55 | 2 31 | 6 27 | 7 3 | 13 57 | 15 7 | 3 34 |
| F 11 | 13 52 | 15 42 | 1 50 | 17 17 | 2 5 | 0 16 | 0 35 | 23 45 | 0 16 | 17 38 | 0 37 | 11 30 | 2 33 | 17 14 | 0 16 | 8 43 | 0 56 | 23 55 | 2 31 | 6 28 | 7 2 | 14 0 | 15 8 | 3 34 |
| S 12 | 13 32 | 20 12 | 2 47 | 16 43 | 2 5 | 0n15 | 0 32 | 23 46 | 0 17 | 17 34 | 0 37 | 11 29 | 2 33 | 17 15 | 0 16 | 8 42 | 0 56 | 23 56 | 2 31 | 6 28 | 7 1 | 14 3 | 15 8 | 3 34 |
| S 13 | 13 11 | 23 56 | 3 37 | 16 7 | 2 3 | 0 47 | 0 29 | 23 46 | 0 18 | 17 30 | 0 37 | 11 29 | 2 33 | 17 15 | 0 16 | 8 41 | 0 56 | 23 56 | 2 31 | 6 28 | 6 59 | 14 6 | 15 8 | 3 34 |
| M14 | 12 51 | 26 40 | 4 18 | 15 30 | 2 2 | 1 18 | 0 26 | 23 47 | 0 18 | 17 26 | 0 37 | 11 29 | 2 33 | 17 15 | 0 16 | 8 40 | 0 56 | 23 56 | 2 31 | 6 27 | 6 58 | 14 10 | 15 9 | 3 34 |
| T 15 | 12 30 | 28 12 | 4 48 | 14 52 | 2 0 | 1 50 | 0 22 | 23 47 | 0 19 | 17 22 | 0 37 | 11 29 | 2 33 | 17 16 | 0 16 | 8 40 | 0 56 | 23 56 | 2 31 | 6 26 | 6 57 | 14 13 | 15 9 | 3 34 |
| W16 | 12 10 | 28 18 | 5 5 | 14 12 | 1 57 | 2 21 | 0 19 | 23 48 | 0 20 | 17 18 | 0 37 | 11 28 | 2 34 | 17 16 | 0 16 | 8 39 | 0 56 | 23 57 | 2 31 | 6 24 | 6 56 | 14 16 | 15 10 | 3 33 |
| T 17 | 11 49 | 26 51 | 5 7 | 13 30 | 1 54 | 2 53 | 0 15 | 23 48 | 0 21 | 17 14 | 0 37 | 11 28 | 2 34 | 17 16 | 0 16 | 8 38 | 0 56 | 23 57 | 2 31 | 6 21 | 6 54 | 14 19 | 15 10 | 3 33 |
| F 18 | 11 27 | 23 51 | 4 52 | 12 47 | 1 50 | 3 24 | 0 12 | 23 47 | 0 22 | 17 10 | 0 37 | 11 28 | 2 34 | 17 17 | 0 16 | 8 37 | 0 56 | 23 57 | 2 31 | 6 18 | 6 53 | 14 22 | 15 10 | 3 33 |
| S 19 | 11 6 | 19 26 | 4 20 | 12 3 | 1 46 | 3 56 | 0 8 | 23 47 | 0 23 | 17 6 | 0 37 | 11 27 | 2 34 | 17 17 | 0 16 | 8 36 | 0 56 | 23 57 | 2 31 | 6 15 | 6 52 | 14 25 | 15 11 | 3 33 |
| S 20 | 10 44 | 13 51 | 3 31 | 11 17 | 1 42 | 4 27 | 0 5 | 23 46 | 0 24 | 17 2 | 0 38 | 11 27 | 2 35 | 17 17 | 0 16 | 8 35 | 0 56 | 23 57 | 2 31 | 6 12 | 6 51 | 14 28 | 15 11 | 3 33 |
| M21 | 10 23 | 7 26 | 2 29 | 10 31 | 1 36 | 4 58 | 0 1 | 23 45 | 0 25 | 16 58 | 0 38 | 11 26 | 2 35 | 17 18 | 0 16 | 8 35 | 0 56 | 23 58 | 2 31 | 6 10 | 6 50 | 14 31 | 15 12 | 3 33 |
| T 22 | 10 1 | 0 33 | 1 16 | 9 42 | 1 30 | 5 29 | 0n 3 | 23 44 | 0 26 | 16 54 | 0 38 | 11 26 | 2 35 | 17 18 | 0 16 | 8 34 | 0 56 | 23 58 | 2 31 | 6 9 | 6 48 | 14 34 | 15 12 | 3 32 |
| W23 | 9 39 | 6n22 | 0n 3 | 8 53 | 1 24 | 6 0 | 0 7 | 23 43 | 0 27 | 16 50 | 0 38 | 11 25 | 2 35 | 17 19 | 0 16 | 8 33 | 0 56 | 23 58 | 2 31 | 6 9 | 6 47 | 14 37 | 15 13 | 3 32 |
| T 24 | 9 17 | 12 57 | 1 21 | 8 3 | 1 17 | 6 31 | 0 10 | 23 41 | 0 28 | 16 46 | 0 38 | 11 25 | 2 36 | 17 19 | 0 16 | 8 32 | 0 56 | 23 58 | 2 31 | 6 9 | 6 46 | 14 40 | 15 14 | 3 32 |
| F 25 | 8 54 | 18 47 | 2 33 | 7 11 | 1 9 | 7 2 | 0 14 | 23 39 | 0 29 | 16 42 | 0 38 | 11 24 | 2 36 | 17 19 | 0 16 | 8 31 | 0 56 | 23 58 | 2 31 | 6 9 | 6 45 | 14 43 | 15 14 | 3 32 |
| S 26 | 8 32 | 23 30 | 3 35 | 6 19 | 1 1 | 7 32 | 0 18 | 23 37 | 0 29 | 16 38 | 0 38 | 11 24 | 2 36 | 17 20 | 0 16 | 8 30 | 0 56 | 23 58 | 2 31 | 6 10 | 6 43 | 14 46 | 15 15 | 3 32 |
| S 27 | 8 9 | 26 46 | 4 23 | 5 26 | 0 52 | 8 3 | 0 22 | 23 35 | 0 30 | 16 34 | 0 38 | 11 23 | 2 36 | 17 20 | 0 16 | 8 29 | 0 56 | 23 59 | 2 31 | 6 10 | 6 42 | 14 49 | 15 15 | 3 32 |
| M28 | 7s47 | 28n22 | 4n55 | 4s32 | 0s42 | 8n33 | 0n26 | 23s33 | 0s31 | 16s30 | 0s38 | 11s22 | 2n37 | 17n21 | 0s16 | 8s29 | 0s56 | 23n59 | 2n31 | 6n 9 | 6n41 | 14s52 | 15n16 | 3s32 |

Julian Day Number = 2337986.5, Delta T = 18.85 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'01, Lahiri = 19°31'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## MARCH 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 37 42 | 11♓ 8'51 | 10♋32 | 22♓ 7 | 22♈ 0 | 11♑43 | 16♒50 | 6°R52 | 19♉23 | 10♓37 | 23°R 6 | 15°R34 | 16♈56 | 5♏29 | 23♉32 | T 1 |
| W 2 | 10 41 39 | 12° 8'53 | 23°55 | 23°59 | 23°10 | 12°26 | 17° 4 | 6♏51 | 19°25 | 10°39 | 23♋ 5 | 15♈30 | 16°53 | 5°36 | 23°35 | W 2 |
| T 3 | 10 45 35 | 13° 8'53 | 7♌ 5 | 25°51 | 24°20 | 13° 8 | 17°17 | 6°49 | 19°27 | 10°41 | 23° 4 | 15°25 | 16°50 | 5°42 | 23°37 | T 3 |
| F 4 | 10 49 32 | 14° 8'51 | 20° 2 | 27°40 | 25°29 | 13°50 | 17°31 | 6°47 | 19°29 | 10°43 | 23° 4 | 15°19 | 16°46 | 5°49 | 23°39 | F 4 |
| S 5 | 10 53 28 | 15° 8'47 | 2♍46 | 29°27 | 26°39 | 14°33 | 17°45 | 6°45 | 19°31 | 10°46 | 23° 3 | 15°14 | 16°43 | 5°56 | 23°41 | S 5 |
| S 6 | 10 57 25 | 16° 8'40 | 15°16 | 1♈12 | 27°48 | 15°16 | 17°58 | 6°43 | 19°32 | 10°48 | 23° 2 | 15°10 | 16°40 | 6° 2 | 23°44 | S 6 |
| M 7 | 11 1 21 | 17° 8'32 | 27°35 | 2°53 | 28°57 | 15°58 | 18°11 | 6°41 | 19°34 | 10°50 | 23° 1 | 15° 7 | 16°37 | 6° 9 | 23°46 | M 7 |
| T 8 | 11 5 18 | 18° 8'21 | 9♎42 | 4°31 | 0♉ 6 | 16°41 | 18°25 | 6°39 | 19°36 | 10°53 | 23° 1 | 15°D 6 | 16°34 | 6°16 | 23°48 | T 8 |
| W 9 | 11 9 14 | 19° 8'09 | 21°40 | 6° 4 | 1°15 | 17°23 | 18°38 | 6°37 | 19°39 | 10°55 | 23° 0 | 15° 6 | 16°30 | 6°22 | 23°51 | W 9 |
| T 10 | 11 13 11 | 20° 7'55 | 3♏31 | 7°33 | 2°24 | 18° 6 | 18°51 | 6°34 | 19°41 | 10°57 | 22°59 | 15° 7 | 16°27 | 6°29 | 23°53 | T 10 |
| F 11 | 11 17 8 | 21° 7'39 | 15°20 | 8°56 | 3°33 | 18°49 | 19° 5 | 6°32 | 19°43 | 10°59 | 22°59 | 15° 9 | 16°24 | 6°36 | 23°56 | F 11 |
| S 12 | 11 21 4 | 22° 7'22 | 27° 9 | 10°14 | 4°41 | 19°31 | 19°18 | 6°29 | 19°45 | 11° 2 | 22°58 | 15°10 | 16°21 | 6°42 | 23°59 | S 12 |
| S 13 | 11 25 1 | 23° 7'02 | 9♐ 3 | 11°25 | 5°49 | 20°14 | 19°31 | 6°27 | 19°47 | 11° 4 | 22°58 | 15°12 | 16°18 | 6°49 | 24° 2 | S 13 |
| M14 | 11 28 57 | 24° 6'41 | 21° 7 | 12°31 | 6°57 | 20°57 | 19°44 | 6°24 | 19°49 | 11° 6 | 22°57 | 15°R12 | 16°15 | 6°56 | 24° 4 | M14 |
| T 15 | 11 32 54 | 25° 6'19 | 3♑27 | 13°29 | 8° 5 | 21°39 | 19°57 | 6°21 | 19°52 | 11° 8 | 22°57 | 15°12 | 16°11 | 7° 2 | 24° 7 | T 15 |
| W16 | 11 36 50 | 26° 5'54 | 16° 5 | 14°20 | 9°13 | 22°22 | 20°10 | 6°18 | 19°54 | 11°10 | 22°56 | 15°11 | 16° 8 | 7° 9 | 24°10 | W16 |
| T 17 | 11 40 47 | 27° 5'28 | 29° 6 | 15° 4 | 10°20 | 23° 5 | 20°23 | 6°16 | 19°56 | 11°13 | 22°56 | 15° 9 | 16° 5 | 7°16 | 24°13 | T 17 |
| F 18 | 11 44 43 | 28° 5'00 | 12♒33 | 15°40 | 11°28 | 23°47 | 20°36 | 6°12 | 19°59 | 11°15 | 22°55 | 15° 7 | 16° 2 | 7°22 | 24°16 | F 18 |
| S 19 | 11 48 40 | 29° 4'30 | 26°26 | 16° 8 | 12°35 | 24°30 | 20°49 | 6° 9 | 20° 1 | 11°17 | 22°55 | 15° 5 | 15°59 | 7°29 | 24°19 | S 19 |
| S 20 | 11 52 37 | 0♈ 3'58 | 10♓44 | 16°29 | 13°42 | 25°13 | 21° 1 | 6° 6 | 20° 4 | 11°19 | 22°54 | 15° 3 | 15°55 | 7°36 | 24°22 | S 20 |
| M21 | 11 56 33 | 1° 3'24 | 25°21 | 16°41 | 14°49 | 25°56 | 21°14 | 6° 3 | 20° 6 | 11°21 | 22°54 | 15° 1 | 15°52 | 7°42 | 24°25 | M21 |
| T 22 | 12 0 30 | 2° 2'48 | 10♈13 | 16°R46 | 15°55 | 26°38 | 21°26 | 6° 0 | 20° 9 | 11°24 | 22°54 | 15°D 1 | 15°49 | 7°49 | 24°29 | T 22 |
| W23 | 12 4 26 | 3° 2'10 | 25°10 | 16°44 | 17° 2 | 27°21 | 21°39 | 5°56 | 20°12 | 11°26 | 22°53 | 15° 1 | 15°46 | 7°56 | 24°32 | W23 |
| T 24 | 12 8 23 | 4° 1'29 | 10♉ 5 | 16°34 | 18° 8 | 28° 4 | 21°51 | 5°53 | 20°14 | 11°28 | 22°53 | 15° 2 | 15°43 | 8° 2 | 24°35 | T 24 |
| F 25 | 12 12 19 | 5° 0'47 | 24°51 | 16°18 | 19°14 | 28°47 | 22° 4 | 5°49 | 20°17 | 11°30 | 22°53 | 15° 2 | 15°40 | 8° 9 | 24°39 | F 25 |
| S 26 | 12 16 16 | 6° 0'02 | 9♊21 | 15°55 | 20°19 | 29°30 | 22°16 | 5°46 | 20°20 | 11°32 | 22°52 | 15° 3 | 15°36 | 8°15 | 24°42 | S 26 |
| S 27 | 12 20 12 | 6°59'15 | 23°33 | 15°26 | 21°25 | 0♒12 | 22°28 | 5°42 | 20°22 | 11°34 | 22°52 | 15° 4 | 15°33 | 8°22 | 24°45 | S 27 |
| M28 | 12 24 9 | 7°58'26 | 7♋24 | 14°51 | 22°30 | 0°55 | 22°40 | 5°38 | 20°25 | 11°36 | 22°52 | 15°R 4 | 15°30 | 8°29 | 24°49 | M28 |
| T 29 | 12 28 6 | 8°57'34 | 20°54 | 14°13 | 23°35 | 1°38 | 22°52 | 5°35 | 20°28 | 11°39 | 22°52 | 15° 4 | 15°27 | 8°35 | 24°52 | T 29 |
| W30 | 12 32 2 | 9°56'40 | 4♌ 5 | 13°31 | 24°39 | 2°21 | 23° 4 | 5°31 | 20°31 | 11°41 | 22°52 | 15° 3 | 15°24 | 8°42 | 24°56 | W30 |
| T 31 | 12 35 59 | 10♈55'44 | 16♌59 | 12♈46 | 25♉44 | 3♒ 4 | 23♒16 | 5♏27 | 20♉34 | 11♓43 | 22♋51 | 15♈ 3 | 15♈21 | 8♏49 | 25♉ 0 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s24 | 28n13 | 5n10 | 3s38 | 0s32 | 9n 3 | 0n30 | 23s30 | 0s32 | 16s26 | 0s39 | 11s22 | 2n37 | 17n21 | 0s16 | 8s28 | 0s56 | 23n59 | 2n31 | 6n 8 | 6n40 | 14s55 | 15n17 | 3s31 |
| W 2 | 7 1 | 26 25 | 5 8 | 2 43 | 0 21 | 9 33 | 0 34 | 23 27 | 0 33 | 16 22 | 0 39 | 11 21 | 2 37 | 17 22 | 0 16 | 8 27 | 0 56 | 23 59 | 2 31 | 6 7 | 6 39 | 14 58 | 15 17 | 3 31 |
| T 3 | 6 38 | 23 12 | 4 50 | 1 49 | 0 10 | 10 2 | 0 38 | 23 24 | 0 34 | 16 18 | 0 39 | 11 20 | 2 37 | 17 22 | 0 16 | 8 26 | 0 56 | 23 59 | 2 31 | 6 5 | 6 37 | 15 1 | 15 18 | 3 31 |
| F 4 | 6 15 | 18 53 | 4 17 | 0 54 | 0n 2 | 10 32 | 0 42 | 23 21 | 0 35 | 16 14 | 0 39 | 11 19 | 2 37 | 17 23 | 0 16 | 8 25 | 0 56 | 23 59 | 2 31 | 6 3 | 6 36 | 15 4 | 15 19 | 3 31 |
| S 5 | 5 52 | 13 47 | 3 31 | 0 0 | 0 14 | 11 1 | 0 46 | 23 17 | 0 36 | 16 10 | 0 39 | 11 19 | 2 38 | 17 23 | 0 16 | 8 24 | 0 56 | 24 0 | 2 31 | 6 1 | 6 35 | 15 7 | 15 19 | 3 31 |
| S 6 | 5 29 | 8 13 | 2 36 | 0n53 | 0 26 | 11 30 | 0 50 | 23 13 | 0 37 | 16 6 | 0 39 | 11 18 | 2 38 | 17 24 | 0 16 | 8 23 | 0 56 | 24 0 | 2 31 | 5 59 | 6 34 | 15 10 | 15 20 | 3 31 |
| M 7 | 5 5 | 2 25 | 1 35 | 1 45 | 0 39 | 11 58 | 0 54 | 23 10 | 0 38 | 16 2 | 0 39 | 11 17 | 2 38 | 17 24 | 0 16 | 8 23 | 0 56 | 24 0 | 2 31 | 5 58 | 6 32 | 15 13 | 15 21 | 3 31 |
| T 8 | 4 42 | 3s24 | 0 30 | 2 36 | 0 52 | 12 27 | 0 59 | 23 5 | 0 39 | 15 58 | 0 40 | 11 16 | 2 38 | 17 25 | 0 16 | 8 22 | 0 56 | 24 0 | 2 31 | 5 57 | 6 31 | 15 16 | 15 21 | 3 31 |
| W 9 | 4 18 | 9 1 | 0s36 | 3 25 | 1 5 | 12 55 | 1 3 | 23 1 | 0 40 | 15 54 | 0 40 | 11 15 | 2 38 | 17 26 | 0 16 | 8 21 | 0 56 | 24 0 | 2 31 | 5 57 | 6 30 | 15 19 | 15 22 | 3 30 |
| T 10 | 3 55 | 14 17 | 1 40 | 4 12 | 1 18 | 13 22 | 1 7 | 22 56 | 0 41 | 15 50 | 0 40 | 11 14 | 2 39 | 17 26 | 0 16 | 8 20 | 0 56 | 24 0 | 2 31 | 5 58 | 6 29 | 15 22 | 15 23 | 3 30 |
| F 11 | 3 31 | 19 0 | 2 39 | 4 57 | 1 32 | 13 50 | 1 11 | 22 52 | 0 42 | 15 46 | 0 40 | 11 13 | 2 39 | 17 27 | 0 16 | 8 19 | 0 56 | 24 0 | 2 31 | 5 59 | 6 28 | 15 25 | 15 24 | 3 30 |
| S 12 | 3 8 | 22 59 | 3 31 | 5 40 | 1 44 | 14 17 | 1 15 | 22 46 | 0 43 | 15 42 | 0 40 | 11 12 | 2 39 | 17 27 | 0 16 | 8 18 | 0 56 | 24 0 | 2 31 | 5 59 | 6 26 | 15 28 | 15 24 | 3 30 |
| S 13 | 2 44 | 26 3 | 4 15 | 6 19 | 1 57 | 14 44 | 1 19 | 22 41 | 0 44 | 15 38 | 0 40 | 11 11 | 2 39 | 17 28 | 0 16 | 8 17 | 0 56 | 24 1 | 2 31 | 6 0 | 6 25 | 15 31 | 15 25 | 3 30 |
| M14 | 2 21 | 27 59 | 4 48 | 6 56 | 2 9 | 15 10 | 1 23 | 22 36 | 0 45 | 15 34 | 0 40 | 11 10 | 2 39 | 17 29 | 0 15 | 8 17 | 0 56 | 24 1 | 2 31 | 6 0 | 6 24 | 15 34 | 15 26 | 3 30 |
| T 15 | 1 57 | 28 35 | 5 9 | 7 30 | 2 21 | 15 37 | 1 28 | 22 30 | 0 47 | 15 30 | 0 40 | 11 9 | 2 40 | 17 29 | 0 15 | 8 16 | 0 56 | 24 1 | 2 31 | 6 0 | 6 23 | 15 37 | 15 27 | 3 30 |
| W16 | 1 33 | 27 44 | 5 16 | 8 0 | 2 32 | 16 2 | 1 32 | 22 24 | 0 48 | 15 26 | 0 41 | 11 8 | 2 40 | 17 30 | 0 15 | 8 15 | 0 56 | 24 1 | 2 31 | 5 59 | 6 21 | 15 40 | 15 28 | 3 30 |
| T 17 | 1 10 | 25 22 | 5 7 | 8 26 | 2 43 | 16 28 | 1 36 | 22 18 | 0 49 | 15 22 | 0 41 | 11 7 | 2 40 | 17 31 | 0 15 | 8 14 | 0 56 | 24 1 | 2 31 | 5 59 | 6 20 | 15 43 | 15 28 | 3 30 |
| F 18 | 0 46 | 21 33 | 4 41 | 8 49 | 2 52 | 16 53 | 1 40 | 22 12 | 0 50 | 15 18 | 0 41 | 11 6 | 2 40 | 17 31 | 0 15 | 8 13 | 0 56 | 24 1 | 2 31 | 5 58 | 6 19 | 15 46 | 15 29 | 3 29 |
| S 19 | 0 22 | 16 27 | 3 57 | 9 8 | 3 0 | 17 18 | 1 44 | 22 5 | 0 51 | 15 14 | 0 41 | 11 4 | 2 40 | 17 32 | 0 15 | 8 12 | 0 56 | 24 1 | 2 31 | 5 57 | 6 18 | 15 49 | 15 30 | 3 29 |
| S 20 | 0n 2 | 10 19 | 2 59 | 9 23 | 3 8 | 17 42 | 1 48 | 21 59 | 0 52 | 15 10 | 0 41 | 11 3 | 2 40 | 17 33 | 0 15 | 8 12 | 0 56 | 24 1 | 2 31 | 5 56 | 6 17 | 15 52 | 15 31 | 3 29 |
| M21 | 0 25 | 3 29 | 1 47 | 9 33 | 3 14 | 18 6 | 1 52 | 21 52 | 0 53 | 15 6 | 0 41 | 11 2 | 2 41 | 17 33 | 0 15 | 8 11 | 0 56 | 24 1 | 2 31 | 5 56 | 6 15 | 15 55 | 15 32 | 3 29 |
| T 22 | 0 49 | 3n39 | 0 27 | 9 40 | 3 19 | 18 30 | 1 57 | 21 45 | 0 54 | 15 2 | 0 42 | 11 1 | 2 41 | 17 34 | 0 15 | 8 10 | 0 56 | 24 1 | 2 31 | 5 55 | 6 14 | 15 58 | 15 33 | 3 29 |
| W23 | 1 13 | 10 37 | 0n56 | 9 42 | 3 22 | 18 53 | 2 1 | 21 38 | 0 55 | 14 58 | 0 42 | 11 0 | 2 41 | 17 35 | 0 15 | 8 9 | 0 56 | 24 1 | 2 31 | 5 56 | 6 13 | 16 1 | 15 33 | 3 29 |
| T 24 | 1 36 | 17 0 | 2 15 | 9 40 | 3 24 | 19 15 | 2 5 | 21 30 | 0 56 | 14 54 | 0 42 | 10 58 | 2 41 | 17 35 | 0 15 | 8 8 | 0 56 | 24 1 | 2 31 | 5 56 | 6 12 | 16 4 | 15 34 | 3 29 |
| F 25 | 2 0 | 22 18 | 3 23 | 9 33 | 3 24 | 19 38 | 2 9 | 21 23 | 0 57 | 14 51 | 0 42 | 10 57 | 2 41 | 17 36 | 0 15 | 8 8 | 0 56 | 24 2 | 2 31 | 5 56 | 6 10 | 16 7 | 15 35 | 3 29 |
| S 26 | 2 23 | 26 8 | 4 18 | 9 23 | 3 23 | 19 59 | 2 13 | 21 15 | 0 58 | 14 47 | 0 42 | 10 56 | 2 41 | 17 37 | 0 15 | 8 7 | 0 56 | 24 2 | 2 31 | 5 56 | 6 9 | 16 10 | 15 36 | 3 29 |
| S 27 | 2 47 | 28 14 | 4 55 | 9 9 | 3 20 | 20 21 | 2 17 | 21 7 | 0 59 | 14 43 | 0 42 | 10 54 | 2 41 | 17 38 | 0 15 | 8 6 | 0 56 | 24 2 | 2 31 | 5 57 | 6 8 | 16 13 | 15 37 | 3 29 |
| M28 | 3 10 | 28 31 | 5 15 | 8 51 | 3 15 | 20 41 | 2 20 | 20 58 | 1 1 | 14 39 | 0 43 | 10 53 | 2 42 | 17 38 | 0 15 | 8 5 | 0 56 | 24 2 | 2 31 | 5 57 | 6 7 | 16 16 | 15 38 | 3 29 |
| T 29 | 3 33 | 27 3 | 5 16 | 8 30 | 3 8 | 21 2 | 2 24 | 20 50 | 1 2 | 14 35 | 0 43 | 10 52 | 2 42 | 17 39 | 0 15 | 8 5 | 0 56 | 24 2 | 2 31 | 5 57 | 6 6 | 16 19 | 15 39 | 3 28 |
| W30 | 3 57 | 24 7 | 5 0 | 8 6 | 3 0 | 21 22 | 2 28 | 20 42 | 1 3 | 14 32 | 0 43 | 10 50 | 2 42 | 17 40 | 0 15 | 8 4 | 0 56 | 24 2 | 2 31 | 5 56 | 6 4 | 16 22 | 15 40 | 3 28 |
| T 31 | 4n20 | 20n 3 | 4n30 | 7n40 | 2n50 | 21n41 | 2n32 | 20s33 | 1s 4 | 14s28 | 0s43 | 10s49 | 2n42 | 17n41 | 0s15 | 8s 3 | 0s56 | 24n 2 | 2n31 | 5n56 | 6n 3 | 16s24 | 15n41 | 3s28 |

Julian Day Number = 2338014.5, Delta T = 18.82 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'05, Lahiri = 19°31'05Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## APRIL 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 39 55 | 11♈54'45 | 29♌37 | 11°R59 | 26♉48 | 3♒47 | 23♒28 | 5°R23 | 20♉36 | 11♓45 | 22°R51 | 15°R 2 | 15♈17 | 8♏55 | 25♉ 3 | F 1 |
| S 2 | 12 43 52 | 12°53'44 | 12♍ 2 | 11♈12 | 27°52 | 4°29 | 23°40 | 5♏19 | 20°39 | 11°47 | 22♋51 | 15♈ 2 | 15°14 | 9° 2 | 25° 7 | S 2 |
| S 3 | 12 47 48 | 13°52'40 | 24°16 | 10°24 | 28°55 | 5°12 | 23°51 | 5°15 | 20°42 | 11°49 | 22°51 | 15° 2 | 15°11 | 9° 9 | 25°11 | S 3 |
| M 4 | 12 51 45 | 14°51'35 | 6♎20 | 9°38 | 29°58 | 5°55 | 24° 3 | 5°11 | 20°45 | 11°51 | 22°51 | 15° 2 | 15° 8 | 9°15 | 25°15 | M 4 |
| T 5 | 12 55 41 | 15°50'27 | 18°18 | 8°53 | 1♊ 1 | 6°38 | 24°14 | 5° 7 | 20°48 | 11°53 | 22°D51 | 15° 2 | 15° 5 | 9°22 | 25°18 | T 5 |
| W 6 | 12 59 38 | 16°49'18 | 0♏10 | 8°11 | 2° 4 | 7°21 | 24°26 | 5° 3 | 20°51 | 11°55 | 22°51 | 15° 2 | 15° 1 | 9°29 | 25°22 | W 6 |
| T 7 | 13 3 35 | 17°48'06 | 11°59 | 7°32 | 3° 6 | 8° 4 | 24°37 | 4°58 | 20°54 | 11°57 | 22°51 | 15° 2 | 14°58 | 9°35 | 25°26 | T 7 |
| F 8 | 13 7 31 | 18°46'53 | 23°48 | 6°57 | 4° 8 | 8°46 | 24°48 | 4°54 | 20°57 | 11°58 | 22°51 | 15° 1 | 14°55 | 9°42 | 25°30 | F 8 |
| S 9 | 13 11 28 | 19°45'38 | 5♐39 | 6°26 | 5°10 | 9°29 | 24°59 | 4°50 | 21° 0 | 12° 0 | 22°51 | 15° 1 | 14°52 | 9°49 | 25°34 | S 9 |
| S 10 | 13 15 24 | 20°44'21 | 17°35 | 6° 0 | 6°11 | 10°12 | 25°10 | 4°45 | 21° 4 | 12° 2 | 22°51 | 15° 0 | 14°49 | 9°55 | 25°38 | S 10 |
| M11 | 13 19 21 | 21°43'02 | 29°40 | 5°39 | 7°12 | 10°55 | 25°21 | 4°41 | 21° 7 | 12° 4 | 22°52 | 14°59 | 14°46 | 10° 2 | 25°42 | M11 |
| T 12 | 13 23 17 | 22°41'42 | 11♑59 | 5°23 | 8°12 | 11°38 | 25°32 | 4°37 | 21°10 | 12° 6 | 22°52 | 14°59 | 14°42 | 10° 9 | 25°46 | T 12 |
| W13 | 13 27 14 | 23°40'20 | 24°34 | 5°11 | 9°12 | 12°21 | 25°43 | 4°32 | 21°13 | 12° 8 | 22°52 | 14°D59 | 14°39 | 10°15 | 25°50 | W13 |
| T 14 | 13 31 10 | 24°38'56 | 7♒30 | 5° 5 | 10°12 | 13° 4 | 25°53 | 4°28 | 21°16 | 12°10 | 22°52 | 14°59 | 14°36 | 10°22 | 25°54 | T 14 |
| F 15 | 13 35 7 | 25°37'31 | 20°50 | 5°D 5 | 11°11 | 13°47 | 26° 4 | 4°23 | 21°19 | 12°11 | 22°52 | 15° 0 | 14°33 | 10°29 | 25°59 | F 15 |
| S 16 | 13 39 4 | 26°36'03 | 4♓36 | 5° 9 | 12°10 | 14°29 | 26°14 | 4°19 | 21°23 | 12°13 | 22°53 | 15° 0 | 14°30 | 10°35 | 26° 3 | S 16 |
| S 17 | 13 43 0 | 27°34'34 | 18°49 | 5°18 | 13° 9 | 15°12 | 26°24 | 4°14 | 21°26 | 12°15 | 22°53 | 15° 1 | 14°27 | 10°42 | 26° 7 | S 17 |
| M18 | 13 46 57 | 28°33'04 | 3♈27 | 5°32 | 14° 7 | 15°55 | 26°34 | 4°10 | 21°29 | 12°17 | 22°53 | 15° 2 | 14°23 | 10°49 | 26°11 | M18 |
| T 19 | 13 50 53 | 29°31'31 | 18°23 | 5°51 | 15° 4 | 16°38 | 26°45 | 4° 5 | 21°32 | 12°18 | 22°54 | 15°R 2 | 14°20 | 10°55 | 26°15 | T 19 |
| W20 | 13 54 50 | 0♉29'57 | 3♉32 | 6°14 | 16° 1 | 17°21 | 26°54 | 4° 1 | 21°36 | 12°20 | 22°54 | 15° 2 | 14°17 | 11° 2 | 26°20 | W20 |
| T 21 | 13 58 46 | 1°28'21 | 18°44 | 6°42 | 16°58 | 18° 3 | 27° 4 | 3°56 | 21°39 | 12°22 | 22°54 | 15° 0 | 14°14 | 11° 9 | 26°24 | T 21 |
| F 22 | 14 2 43 | 2°26'43 | 3♊49 | 7°14 | 17°54 | 18°46 | 27°14 | 3°52 | 21°42 | 12°23 | 22°55 | 14°58 | 14°11 | 11°15 | 26°28 | F 22 |
| S 23 | 14 6 39 | 3°25'04 | 18°38 | 7°49 | 18°49 | 19°29 | 27°24 | 3°47 | 21°46 | 12°25 | 22°55 | 14°56 | 14° 7 | 11°22 | 26°33 | S 23 |
| S 24 | 14 10 36 | 4°23'22 | 3♋ 5 | 8°29 | 19°44 | 20°12 | 27°33 | 3°43 | 21°49 | 12°26 | 22°56 | 14°54 | 14° 4 | 11°29 | 26°37 | S 24 |
| M25 | 14 14 33 | 5°21'38 | 17° 7 | 9°13 | 20°39 | 20°55 | 27°42 | 3°38 | 21°53 | 12°28 | 22°56 | 14°52 | 14° 1 | 11°35 | 26°42 | M25 |
| T 26 | 14 18 29 | 6°19'52 | 0♌42 | 10° 0 | 21°33 | 21°37 | 27°52 | 3°34 | 21°56 | 12°30 | 22°57 | 14°D51 | 13°58 | 11°42 | 26°46 | T 26 |
| W27 | 14 22 26 | 7°18'04 | 13°51 | 10°50 | 22°26 | 22°20 | 28° 1 | 3°29 | 21°59 | 12°31 | 22°57 | 14°51 | 13°55 | 11°49 | 26°51 | W27 |
| T 28 | 14 26 22 | 8°16'13 | 26°38 | 11°44 | 23°18 | 23° 3 | 28°10 | 3°24 | 22° 3 | 12°33 | 22°58 | 14°52 | 13°52 | 11°55 | 26°55 | T 28 |
| F 29 | 14 30 19 | 9°14'21 | 9♍ 7 | 12°40 | 24°10 | 23°45 | 28°19 | 3°20 | 22° 6 | 12°34 | 22°59 | 14°54 | 13°48 | 12° 2 | 27° 0 | F 29 |
| S 30 | 14 34 15 | 10♉12'27 | 21♍20 | 13♈40 | 25♊ 1 | 24♒28 | 28♒27 | 3♏15 | 22♉10 | 12♓35 | 22♋59 | 14♈55 | 13♈45 | 12♏ 9 | 27♉ 4 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n43 | 15n 9 | 3n46 | 7n11 | 2n39 | 22n 0 | 2n36 | 20s24 | 1s 5 | 14s24 | 0s43 | 10s48 | 2n42 | 17n41 | 0s15 | 8s 2 | 0s56 | 24n 2 | 2n31 | 5n56 | 6n 2 | 16s27 | 15n42 | 3s28 |
| S 2 | 5 6 | 9 44 | 2 53 | 6 41 | 2 27 | 22 18 | 2 39 | 20 15 | 1 6 | 14 20 | 0 43 | 10 46 | 2 42 | 17 42 | 0 15 | 8 1 | 0 56 | 24 2 | 2 31 | 5 56 | 6 1 | 16 30 | 15 43 | 3 28 |
| S 3 | 5 29 | 4 1 | 1 53 | 6 10 | 2 13 | 22 36 | 2 43 | 20 5 | 1 7 | 14 17 | 0 44 | 10 45 | 2 42 | 17 43 | 0 15 | 8 1 | 0 56 | 24 2 | 2 31 | 5 56 | 5 59 | 16 33 | 15 44 | 3 28 |
| M 4 | 5 52 | 1s47 | 0 48 | 5 38 | 1 59 | 22 54 | 2 47 | 19 56 | 1 9 | 14 13 | 0 44 | 10 43 | 2 42 | 17 44 | 0 15 | 8 0 | 0 56 | 24 2 | 2 31 | 5 56 | 5 58 | 16 36 | 15 44 | 3 28 |
| T 5 | 6 15 | 7 28 | 0s18 | 5 7 | 1 43 | 23 10 | 2 50 | 19 46 | 1 10 | 14 9 | 0 44 | 10 42 | 2 42 | 17 45 | 0 15 | 7 59 | 0 56 | 24 2 | 2 31 | 5 56 | 5 57 | 16 39 | 15 45 | 3 28 |
| W 6 | 6 37 | 12 51 | 1 23 | 4 36 | 1 28 | 23 27 | 2 53 | 19 37 | 1 11 | 14 6 | 0 44 | 10 40 | 2 43 | 17 45 | 0 15 | 7 59 | 0 56 | 24 2 | 2 31 | 5 56 | 5 56 | 16 42 | 15 46 | 3 28 |
| T 7 | 7 0 | 17 45 | 2 24 | 4 5 | 1 11 | 23 42 | 2 57 | 19 27 | 1 12 | 14 2 | 0 44 | 10 39 | 2 43 | 17 46 | 0 15 | 7 58 | 0 56 | 24 2 | 2 31 | 5 56 | 5 55 | 16 45 | 15 47 | 3 28 |
| F 8 | 7 22 | 21 58 | 3 19 | 3 36 | 0 55 | 23 58 | 3 0 | 19 16 | 1 13 | 13 59 | 0 44 | 10 37 | 2 43 | 17 47 | 0 15 | 7 57 | 0 56 | 24 2 | 2 31 | 5 56 | 5 53 | 16 48 | 15 48 | 3 28 |
| S 9 | 7 45 | 25 19 | 4 6 | 3 9 | 0 38 | 24 12 | 3 3 | 19 6 | 1 14 | 13 55 | 0 45 | 10 36 | 2 43 | 17 48 | 0 15 | 7 56 | 0 56 | 24 2 | 2 31 | 5 55 | 5 52 | 16 51 | 15 49 | 3 28 |
| S 10 | 8 7 | 27 35 | 4 42 | 2 43 | 0 22 | 24 26 | 3 6 | 18 56 | 1 16 | 13 52 | 0 45 | 10 34 | 2 43 | 17 49 | 0 15 | 7 56 | 0 57 | 24 2 | 2 31 | 5 55 | 5 51 | 16 53 | 15 50 | 3 28 |
| M11 | 8 29 | 28 35 | 5 6 | 2 20 | 0 6 | 24 40 | 3 10 | 18 45 | 1 17 | 13 48 | 0 45 | 10 33 | 2 43 | 17 50 | 0 15 | 7 55 | 0 57 | 24 2 | 2 31 | 5 55 | 5 50 | 16 56 | 15 51 | 3 28 |
| T 12 | 8 51 | 28 12 | 5 17 | 1 59 | 0s10 | 24 53 | 3 12 | 18 34 | 1 18 | 13 45 | 0 45 | 10 31 | 2 43 | 17 50 | 0 15 | 7 54 | 0 57 | 24 2 | 2 31 | 5 55 | 5 48 | 16 59 | 15 52 | 3 28 |
| W13 | 9 12 | 26 23 | 5 13 | 1 41 | 0 25 | 25 5 | 3 15 | 18 23 | 1 19 | 13 41 | 0 45 | 10 30 | 2 43 | 17 51 | 0 15 | 7 54 | 0 57 | 24 2 | 2 31 | 5 55 | 5 47 | 17 2 | 15 53 | 3 28 |
| T 14 | 9 34 | 23 9 | 4 53 | 1 25 | 0 40 | 25 17 | 3 18 | 18 12 | 1 20 | 13 38 | 0 46 | 10 28 | 2 43 | 17 52 | 0 15 | 7 53 | 0 57 | 24 2 | 2 31 | 5 55 | 5 46 | 17 5 | 15 54 | 3 28 |
| F 15 | 9 55 | 18 38 | 4 17 | 1 11 | 0 54 | 25 28 | 3 21 | 18 1 | 1 21 | 13 34 | 0 46 | 10 27 | 2 43 | 17 53 | 0 15 | 7 52 | 0 57 | 24 2 | 2 31 | 5 55 | 5 45 | 17 8 | 15 55 | 3 28 |
| S 16 | 10 17 | 13 2 | 3 26 | 1 1 | 1 8 | 25 39 | 3 23 | 17 50 | 1 23 | 13 31 | 0 46 | 10 25 | 2 43 | 17 54 | 0 15 | 7 52 | 0 57 | 24 2 | 2 31 | 5 55 | 5 43 | 17 11 | 15 56 | 3 28 |
| S 17 | 10 38 | 6 35 | 2 20 | 0 53 | 1 21 | 25 49 | 3 26 | 17 38 | 1 24 | 13 28 | 0 46 | 10 24 | 2 43 | 17 55 | 0 15 | 7 51 | 0 57 | 24 2 | 2 31 | 5 56 | 5 42 | 17 14 | 15 57 | 3 28 |
| M18 | 10 59 | 0n24 | 1 4 | 0 47 | 1 33 | 25 59 | 3 28 | 17 27 | 1 25 | 13 24 | 0 46 | 10 22 | 2 43 | 17 56 | 0 15 | 7 50 | 0 57 | 24 1 | 2 31 | 5 56 | 5 41 | 17 16 | 15 58 | 3 28 |
| T 19 | 11 19 | 7 30 | 0n19 | 0 44 | 1 44 | 26 8 | 3 31 | 17 15 | 1 26 | 13 21 | 0 47 | 10 21 | 2 43 | 17 56 | 0 15 | 7 50 | 0 57 | 24 1 | 2 31 | 5 56 | 5 40 | 17 19 | 15 59 | 3 28 |
| W20 | 11 40 | 14 18 | 1 41 | 0 44 | 1 55 | 26 16 | 3 33 | 17 3 | 1 27 | 13 18 | 0 47 | 10 19 | 2 43 | 17 57 | 0 15 | 7 49 | 0 57 | 24 1 | 2 31 | 5 56 | 5 38 | 17 22 | 16 0 | 3 28 |
| T 21 | 12 0 | 20 15 | 2 56 | 0 46 | 2 4 | 26 24 | 3 35 | 16 51 | 1 29 | 13 15 | 0 47 | 10 18 | 2 43 | 17 58 | 0 15 | 7 49 | 0 57 | 24 1 | 2 31 | 5 55 | 5 37 | 17 25 | 16 1 | 3 28 |
| F 22 | 12 21 | 24 51 | 3 58 | 0 50 | 2 13 | 26 32 | 3 37 | 16 39 | 1 30 | 13 12 | 0 47 | 10 16 | 2 43 | 17 59 | 0 15 | 7 48 | 0 57 | 24 1 | 2 31 | 5 55 | 5 36 | 17 28 | 16 2 | 3 27 |
| S 23 | 12 41 | 27 42 | 4 43 | 0 57 | 2 22 | 26 38 | 3 39 | 16 27 | 1 31 | 13 8 | 0 47 | 10 15 | 2 43 | 18 0 | 0 15 | 7 47 | 0 57 | 24 1 | 2 31 | 5 54 | 5 35 | 17 31 | 16 3 | 3 27 |
| S 24 | 13 0 | 28 36 | 5 9 | 1 5 | 2 29 | 26 45 | 3 40 | 16 14 | 1 32 | 13 5 | 0 48 | 10 13 | 2 43 | 18 1 | 0 15 | 7 47 | 0 57 | 24 1 | 2 31 | 5 53 | 5 34 | 17 33 | 16 4 | 3 27 |
| M25 | 13 20 | 27 36 | 5 15 | 1 16 | 2 36 | 26 50 | 3 42 | 16 2 | 1 33 | 13 2 | 0 48 | 10 12 | 2 43 | 18 2 | 0 15 | 7 46 | 0 57 | 24 1 | 2 31 | 5 52 | 5 32 | 17 36 | 16 5 | 3 28 |
| T 26 | 13 39 | 24 59 | 5 4 | 1 29 | 2 42 | 26 55 | 3 43 | 15 49 | 1 35 | 12 59 | 0 48 | 10 10 | 2 43 | 18 3 | 0 15 | 7 46 | 0 57 | 24 1 | 2 31 | 5 52 | 5 31 | 17 39 | 16 6 | 3 28 |
| W27 | 13 58 | 21 6 | 4 36 | 1 44 | 2 47 | 27 0 | 3 44 | 15 36 | 1 36 | 12 56 | 0 48 | 10 9 | 2 43 | 18 4 | 0 15 | 7 45 | 0 57 | 24 1 | 2 31 | 5 52 | 5 30 | 17 42 | 16 7 | 3 28 |
| T 28 | 14 17 | 16 21 | 3 56 | 2 1 | 2 51 | 27 4 | 3 45 | 15 23 | 1 37 | 12 54 | 0 49 | 10 7 | 2 43 | 18 4 | 0 15 | 7 45 | 0 57 | 24 1 | 2 31 | 5 52 | 5 29 | 17 45 | 16 8 | 3 28 |
| F 29 | 14 36 | 11 1 | 3 5 | 2 20 | 2 55 | 27 7 | 3 46 | 15 10 | 1 38 | 12 51 | 0 49 | 10 6 | 2 43 | 18 5 | 0 15 | 7 44 | 0 57 | 24 1 | 2 31 | 5 53 | 5 27 | 17 48 | 16 9 | 3 28 |
| S 30 | 14n54 | 5n22 | 2n 6 | 2n40 | 2s58 | 27n10 | 3n47 | 14s57 | 1s40 | 12s48 | 0s49 | 10s 4 | 2n43 | 18n 6 | 0s15 | 7s44 | 0s57 | 24n 0 | 2n31 | 5n53 | 5n26 | 17s50 | 16n10 | 3s28 |

Julian Day Number = 2338045.5, Delta T = 18.77 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'09, Lahiri = 19°31'09Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## MAY 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 38 12 | 11♉10'31 | 3♎23 | 14♈43 | 25♊52 | 25♒10 | 28♒36 | 3°R11 | 22♉13 | 12♓37 | 23♋ 0 | 14♈57 | 13♈42 | 12♏15 | 27♉ 9 | S 1 |
| M 2 | 14 42 8 | 12° 8'33 | 15°18 | 15°48 | 26°42 | 25°53 | 28°44 | 3♏ 6 | 22°17 | 12°38 | 23° 0 | 14°R57 | 13°39 | 12°22 | 27°13 | M 2 |
| T 3 | 14 46 5 | 13° 6'33 | 27° 9 | 16°57 | 27°31 | 26°36 | 28°53 | 3° 2 | 22°20 | 12°40 | 23° 1 | 14°57 | 13°36 | 12°29 | 27°18 | T 3 |
| W 4 | 14 50 1 | 14° 4'32 | 8♏57 | 18° 8 | 28°19 | 27°18 | 29° 1 | 2°58 | 22°23 | 12°41 | 23° 2 | 14°54 | 13°32 | 12°35 | 27°22 | W 4 |
| T 5 | 14 53 58 | 15° 2'29 | 20°46 | 19°21 | 29° 6 | 28° 1 | 29° 9 | 2°53 | 22°27 | 12°42 | 23° 3 | 14°51 | 13°29 | 12°42 | 27°27 | T 5 |
| F 6 | 14 57 55 | 16° 0'24 | 2♐38 | 20°37 | 29°53 | 28°43 | 29°17 | 2°49 | 22°30 | 12°43 | 23° 3 | 14°46 | 13°26 | 12°49 | 27°31 | F 6 |
| S 7 | 15 1 51 | 16°58'18 | 14°34 | 21°55 | 0♋39 | 29°26 | 29°25 | 2°44 | 22°34 | 12°45 | 23° 4 | 14°41 | 13°23 | 12°55 | 27°36 | S 7 |
| S 8 | 15 5 48 | 17°56'11 | 26°36 | 23°16 | 1°23 | 0♓ 8 | 29°32 | 2°40 | 22°37 | 12°46 | 23° 5 | 14°35 | 13°20 | 13° 2 | 27°41 | S 8 |
| M 9 | 15 9 44 | 18°54'02 | 8♑47 | 24°39 | 2° 7 | 0°50 | 29°40 | 2°36 | 22°41 | 12°47 | 23° 6 | 14°29 | 13°17 | 13° 9 | 27°45 | M 9 |
| T 10 | 15 13 41 | 19°51'52 | 21° 9 | 26° 5 | 2°50 | 1°33 | 29°47 | 2°32 | 22°44 | 12°48 | 23° 7 | 14°25 | 13°13 | 13°15 | 27°50 | T 10 |
| W11 | 15 17 37 | 20°49'41 | 3♒45 | 27°32 | 3°32 | 2°15 | 29°54 | 2°27 | 22°48 | 12°49 | 23° 7 | 14°22 | 13°10 | 13°22 | 27°55 | W11 |
| T 12 | 15 21 34 | 21°47'28 | 16°39 | 29° 2 | 4°13 | 2°57 | 0♓ 2 | 2°23 | 22°51 | 12°50 | 23° 8 | 14°D21 | 13° 7 | 13°29 | 27°59 | T 12 |
| F 13 | 15 25 31 | 22°45'14 | 29°53 | 0♉34 | 4°52 | 3°40 | 0° 8 | 2°19 | 22°55 | 12°52 | 23° 9 | 14°21 | 13° 4 | 13°35 | 28° 4 | F 13 |
| S 14 | 15 29 27 | 23°43'00 | 13♓30 | 2° 9 | 5°31 | 4°22 | 0°15 | 2°15 | 22°58 | 12°53 | 23°10 | 14°22 | 13° 1 | 13°42 | 28° 9 | S 14 |
| S 15 | 15 33 24 | 24°40'44 | 27°32 | 3°45 | 6° 8 | 5° 4 | 0°22 | 2°11 | 23° 2 | 12°54 | 23°11 | 14°23 | 12°58 | 13°49 | 28°13 | S 15 |
| M16 | 15 37 20 | 25°38'26 | 11♈58 | 5°24 | 6°44 | 5°46 | 0°28 | 2° 7 | 23° 5 | 12°55 | 23°12 | 14°R24 | 12°54 | 13°55 | 28°18 | M16 |
| T 17 | 15 41 17 | 26°36'08 | 26°45 | 7° 5 | 7°19 | 6°28 | 0°35 | 2° 3 | 23° 9 | 12°55 | 23°13 | 14°23 | 12°51 | 14° 2 | 28°23 | T 17 |
| W18 | 15 45 13 | 27°33'49 | 11♉50 | 8°49 | 7°53 | 7°10 | 0°41 | 1°59 | 23°12 | 12°56 | 23°14 | 14°21 | 12°48 | 14° 9 | 28°27 | W18 |
| T 19 | 15 49 10 | 28°31'29 | 27° 2 | 10°34 | 8°25 | 7°52 | 0°47 | 1°55 | 23°16 | 12°57 | 23°15 | 14°17 | 12°45 | 14°15 | 28°32 | T 19 |
| F 20 | 15 53 6 | 29°29'07 | 12♊12 | 12°22 | 8°56 | 8°34 | 0°53 | 1°52 | 23°19 | 12°58 | 23°16 | 14°11 | 12°42 | 14°22 | 28°37 | F 20 |
| S 21 | 15 57 3 | 0♊26'45 | 27°10 | 14°12 | 9°25 | 9°16 | 0°58 | 1°48 | 23°23 | 12°59 | 23°17 | 14° 4 | 12°38 | 14°29 | 28°42 | S 21 |
| S 22 | 16 1 0 | 1°24'20 | 11♋48 | 16° 4 | 9°53 | 9°58 | 1° 4 | 1°44 | 23°26 | 13° 0 | 23°18 | 13°57 | 12°35 | 14°35 | 28°46 | S 22 |
| M23 | 16 4 56 | 2°21'55 | 26° 0 | 17°58 | 10°19 | 10°40 | 1° 9 | 1°41 | 23°30 | 13° 1 | 23°20 | 13°51 | 12°32 | 14°42 | 28°51 | M23 |
| T 24 | 16 8 53 | 3°19'28 | 9♌42 | 19°54 | 10°44 | 11°22 | 1°14 | 1°37 | 23°33 | 13° 1 | 23°21 | 13°47 | 12°29 | 14°49 | 28°56 | T 24 |
| W25 | 16 12 49 | 4°16'59 | 22°56 | 21°52 | 11° 7 | 12° 3 | 1°19 | 1°34 | 23°37 | 13° 2 | 23°22 | 13°44 | 12°26 | 14°55 | 29° 0 | W25 |
| T 26 | 16 16 46 | 5°14'30 | 5♍44 | 23°53 | 11°28 | 12°45 | 1°24 | 1°30 | 23°40 | 13° 3 | 23°23 | 13°D44 | 12°23 | 15° 2 | 29° 5 | T 26 |
| F 27 | 16 20 42 | 6°11'58 | 18°10 | 25°55 | 11°47 | 13°26 | 1°29 | 1°27 | 23°44 | 13° 3 | 23°24 | 13°44 | 12°19 | 15° 9 | 29°10 | F 27 |
| S 28 | 16 24 39 | 7° 9'26 | 0♎20 | 27°59 | 12° 4 | 14° 8 | 1°33 | 1°24 | 23°47 | 13° 4 | 23°25 | 13°45 | 12°16 | 15°15 | 29°14 | S 28 |
| S 29 | 16 28 35 | 8° 6'52 | 12°18 | 0♊ 5 | 12°20 | 14°49 | 1°38 | 1°20 | 23°50 | 13° 4 | 23°27 | 13°R46 | 12°13 | 15°22 | 29°19 | S 29 |
| M30 | 16 32 32 | 9° 4'17 | 24° 9 | 2°12 | 12°33 | 15°30 | 1°42 | 1°17 | 23°54 | 13° 5 | 23°28 | 13°45 | 12°10 | 15°29 | 29°24 | M30 |
| T 31 | 16 36 29 | 10♊ 1'41 | 5♏57 | 4♊21 | 12♋44 | 16♓12 | 1♓46 | 1♏14 | 23♉57 | 13♓ 5 | 23♋29 | 13♈43 | 12♈ 7 | 15♏35 | 29♉28 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n13 | 0s23 | 1n 3 | 3n 2 | 3s 1 | 27n13 | 3n48 | 14s44 | 1s41 | 12s45 | 0s49 | 10s 3 | 2n43 | 18n 7 | 0s15 | 7s43 | 0s57 | 24n 0 | 2n31 | 5n54 | 5n25 | 17s53 | 16n11 | 3s28 |
| M 2 | 15 30 | 6 4 | 0s 2 | 3 26 | 3 2 | 27 14 | 3 48 | 14 31 | 1 42 | 12 42 | 0 49 | 10 1 | 2 43 | 18 8 | 0 15 | 7 43 | 0 57 | 24 0 | 2 31 | 5 54 | 5 24 | 17 56 | 16 12 | 3 28 |
| T 3 | 15 48 | 11 30 | 1 6 | 3 51 | 3 3 | 27 16 | 3 48 | 14 17 | 1 43 | 12 40 | 0 50 | 10 0 | 2 43 | 18 9 | 0 15 | 7 42 | 0 57 | 24 0 | 2 31 | 5 54 | 5 22 | 17 59 | 16 13 | 3 28 |
| W 4 | 16 5 | 16 32 | 2 8 | 4 17 | 3 4 | 27 17 | 3 48 | 14 4 | 1 45 | 12 37 | 0 50 | 9 58 | 2 43 | 18 10 | 0 15 | 7 42 | 0 57 | 24 0 | 2 31 | 5 53 | 5 21 | 18 2 | 16 14 | 3 28 |
| T 5 | 16 23 | 20 56 | 3 4 | 4 45 | 3 3 | 27 17 | 3 48 | 13 50 | 1 46 | 12 34 | 0 50 | 9 57 | 2 43 | 18 11 | 0 15 | 7 41 | 0 57 | 24 0 | 2 32 | 5 52 | 5 20 | 18 4 | 16 15 | 3 28 |
| F 6 | 16 39 | 24 30 | 3 52 | 5 15 | 3 2 | 27 17 | 3 48 | 13 37 | 1 47 | 12 32 | 0 50 | 9 56 | 2 42 | 18 12 | 0 15 | 7 41 | 0 57 | 24 0 | 2 32 | 5 50 | 5 19 | 18 7 | 16 16 | 3 28 |
| S 7 | 16 56 | 27 3 | 4 30 | 5 45 | 3 1 | 27 16 | 3 47 | 13 23 | 1 48 | 12 29 | 0 51 | 9 54 | 2 42 | 18 12 | 0 15 | 7 40 | 0 57 | 24 0 | 2 32 | 5 48 | 5 18 | 18 10 | 16 17 | 3 28 |
| S 8 | 17 12 | 28 23 | 4 56 | 6 17 | 2 59 | 27 15 | 3 47 | 13 9 | 1 50 | 12 27 | 0 51 | 9 53 | 2 42 | 18 13 | 0 15 | 7 40 | 0 57 | 24 0 | 2 32 | 5 45 | 5 16 | 18 13 | 16 18 | 3 28 |
| M 9 | 17 28 | 28 21 | 5 10 | 6 50 | 2 56 | 27 14 | 3 46 | 12 55 | 1 51 | 12 24 | 0 51 | 9 51 | 2 42 | 18 14 | 0 15 | 7 39 | 0 57 | 23 59 | 2 32 | 5 43 | 5 15 | 18 15 | 16 19 | 3 28 |
| T 10 | 17 44 | 26 54 | 5 9 | 7 24 | 2 53 | 27 12 | 3 45 | 12 41 | 1 52 | 12 22 | 0 51 | 9 50 | 2 42 | 18 15 | 0 15 | 7 39 | 0 58 | 23 59 | 2 32 | 5 42 | 5 14 | 18 18 | 16 20 | 3 28 |
| W11 | 18 0 | 24 6 | 4 54 | 7 59 | 2 49 | 27 9 | 3 43 | 12 27 | 1 53 | 12 20 | 0 52 | 9 49 | 2 42 | 18 16 | 0 15 | 7 39 | 0 58 | 23 59 | 2 32 | 5 40 | 5 13 | 18 21 | 16 21 | 3 28 |
| T 12 | 18 15 | 20 3 | 4 23 | 8 35 | 2 44 | 27 6 | 3 42 | 12 13 | 1 54 | 12 17 | 0 52 | 9 47 | 2 42 | 18 17 | 0 15 | 7 38 | 0 58 | 23 59 | 2 32 | 5 40 | 5 11 | 18 24 | 16 22 | 3 28 |
| F 13 | 18 30 | 14 56 | 3 38 | 9 12 | 2 39 | 27 3 | 3 40 | 11 59 | 1 56 | 12 15 | 0 52 | 9 46 | 2 42 | 18 18 | 0 15 | 7 38 | 0 58 | 23 59 | 2 32 | 5 40 | 5 10 | 18 26 | 16 23 | 3 28 |
| S 14 | 18 44 | 8 58 | 2 40 | 9 50 | 2 34 | 26 59 | 3 38 | 11 44 | 1 57 | 12 13 | 0 52 | 9 45 | 2 42 | 18 19 | 0 15 | 7 38 | 0 58 | 23 59 | 2 32 | 5 40 | 5 9 | 18 29 | 16 24 | 3 28 |
| S 15 | 18 58 | 2 22 | 1 30 | 10 29 | 2 28 | 26 55 | 3 35 | 11 30 | 1 58 | 12 11 | 0 53 | 9 44 | 2 41 | 18 20 | 0 15 | 7 37 | 0 58 | 23 59 | 2 32 | 5 41 | 5 8 | 18 32 | 16 25 | 3 28 |
| M16 | 19 12 | 4n32 | 0 13 | 11 8 | 2 21 | 26 51 | 3 33 | 11 16 | 1 59 | 12 9 | 0 53 | 9 42 | 2 41 | 18 21 | 0 15 | 7 37 | 0 58 | 23 58 | 2 32 | 5 41 | 5 6 | 18 35 | 16 26 | 3 28 |
| T 17 | 19 26 | 11 22 | 1n 7 | 11 48 | 2 14 | 26 46 | 3 30 | 11 1 | 2 1 | 12 7 | 0 53 | 9 41 | 2 41 | 18 21 | 0 15 | 7 37 | 0 58 | 23 58 | 2 32 | 5 41 | 5 5 | 18 37 | 16 27 | 3 28 |
| W18 | 19 39 | 17 41 | 2 23 | 12 28 | 2 6 | 26 41 | 3 26 | 10 47 | 2 2 | 12 5 | 0 53 | 9 40 | 2 41 | 18 22 | 0 15 | 7 36 | 0 58 | 23 58 | 2 32 | 5 40 | 5 4 | 18 40 | 16 28 | 3 29 |
| T 19 | 19 52 | 22 56 | 3 30 | 13 9 | 1 58 | 26 35 | 3 23 | 10 32 | 2 3 | 12 3 | 0 54 | 9 39 | 2 41 | 18 23 | 0 15 | 7 36 | 0 58 | 23 58 | 2 32 | 5 38 | 5 3 | 18 43 | 16 29 | 3 29 |
| F 20 | 20 5 | 26 37 | 4 22 | 13 50 | 1 50 | 26 30 | 3 19 | 10 17 | 2 4 | 12 1 | 0 54 | 9 38 | 2 41 | 18 24 | 0 15 | 7 36 | 0 58 | 23 58 | 2 32 | 5 36 | 5 1 | 18 46 | 16 29 | 3 29 |
| S 21 | 20 17 | 28 22 | 4 55 | 14 31 | 1 41 | 26 23 | 3 15 | 10 3 | 2 6 | 11 59 | 0 54 | 9 36 | 2 41 | 18 25 | 0 15 | 7 35 | 0 58 | 23 58 | 2 32 | 5 33 | 5 0 | 18 48 | 16 30 | 3 29 |
| S 22 | 20 29 | 28 4 | 5 8 | 15 12 | 1 32 | 26 17 | 3 11 | 9 48 | 2 7 | 11 58 | 0 54 | 9 35 | 2 40 | 18 26 | 0 15 | 7 35 | 0 58 | 23 57 | 2 32 | 5 31 | 4 59 | 18 51 | 16 31 | 3 29 |
| M23 | 20 40 | 25 55 | 5 1 | 15 54 | 1 22 | 26 10 | 3 6 | 9 33 | 2 8 | 11 56 | 0 55 | 9 34 | 2 40 | 18 27 | 0 15 | 7 35 | 0 58 | 23 57 | 2 32 | 5 28 | 4 58 | 18 54 | 16 32 | 3 29 |
| T 24 | 20 51 | 22 18 | 4 37 | 16 35 | 1 12 | 26 3 | 3 1 | 9 19 | 2 9 | 11 54 | 0 55 | 9 33 | 2 40 | 18 28 | 0 15 | 7 35 | 0 58 | 23 57 | 2 32 | 5 27 | 4 56 | 18 56 | 16 33 | 3 29 |
| W25 | 21 2 | 17 40 | 3 59 | 17 16 | 1 2 | 25 56 | 2 55 | 9 4 | 2 11 | 11 53 | 0 55 | 9 32 | 2 40 | 18 28 | 0 15 | 7 34 | 0 58 | 23 57 | 2 32 | 5 26 | 4 55 | 18 59 | 16 34 | 3 29 |
| T 26 | 21 13 | 12 22 | 3 10 | 17 56 | 0 52 | 25 48 | 2 49 | 8 49 | 2 12 | 11 51 | 0 55 | 9 31 | 2 40 | 18 29 | 0 15 | 7 34 | 0 58 | 23 57 | 2 32 | 5 25 | 4 54 | 19 2 | 16 35 | 3 29 |
| F 27 | 21 23 | 6 44 | 2 13 | 18 36 | 0 41 | 25 40 | 2 43 | 8 34 | 2 13 | 11 50 | 0 56 | 9 30 | 2 40 | 18 30 | 0 15 | 7 34 | 0 58 | 23 56 | 2 32 | 5 26 | 4 53 | 19 5 | 16 36 | 3 29 |
| S 28 | 21 33 | 0 58 | 1 12 | 19 15 | 0 31 | 25 32 | 2 37 | 8 19 | 2 14 | 11 49 | 0 56 | 9 29 | 2 39 | 18 31 | 0 15 | 7 34 | 0 58 | 23 56 | 2 32 | 5 26 | 4 51 | 19 7 | 16 37 | 3 30 |
| S 29 | 21 42 | 4s45 | 0 8 | 19 53 | 0 20 | 25 24 | 2 30 | 8 4 | 2 15 | 11 47 | 0 56 | 9 28 | 2 39 | 18 32 | 0 15 | 7 34 | 0 58 | 23 56 | 2 32 | 5 26 | 4 50 | 19 10 | 16 38 | 3 30 |
| M30 | 21 51 | 10 14 | 0s56 | 20 30 | 0 9 | 25 15 | 2 23 | 7 49 | 2 17 | 11 46 | 0 57 | 9 27 | 2 39 | 18 33 | 0 15 | 7 33 | 0 58 | 23 56 | 2 32 | 5 26 | 4 49 | 19 13 | 16 38 | 3 30 |
| T 31 | 22n 0 | 15s21 | 1s56 | 21n 5 | 0n 2 | 25n 6 | 2n15 | 7s34 | 2s18 | 11s45 | 0s57 | 9s27 | 2n39 | 18n34 | 0s15 | 7s33 | 0s58 | 23n56 | 2n32 | 5n25 | 4n48 | 19s15 | 16n39 | 3s30 |

Julian Day Number = 2338075.5, Delta T = 18.74 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'13, Lahiri = 19°31'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## JUNE 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 40 25 | 10♊59'04 | 17♏45 | 6♊31 | 12♋53 | 16♓53 | 1♓49 | 1°R11 | 24♉ 1 | 13♓ 6 | 23♋30 | 13°R38 | 12♈ 4 | 15♏42 | 29♉33 | W 1 |
| T 2 | 16 44 22 | 11°56'26 | 29°37 | 8°41 | 13° 0 | 17°34 | 1°53 | 1♏ 8 | 24° 4 | 13° 6 | 23°32 | 13♈31 | 12° 0 | 15°49 | 29°38 | T 2 |
| F 3 | 16 48 18 | 12°53'47 | 11♐34 | 10°53 | 13° 5 | 18°15 | 1°57 | 1° 6 | 24° 7 | 13° 7 | 23°33 | 13°21 | 11°57 | 15°55 | 29°42 | F 3 |
| S 4 | 16 52 15 | 13°51'07 | 23°39 | 13° 5 | 13° 7 | 18°56 | 2° 0 | 1° 3 | 24°11 | 13° 7 | 23°34 | 13°11 | 11°54 | 16° 2 | 29°47 | S 4 |
| S 5 | 16 56 11 | 14°48'27 | 5♑51 | 15°17 | 13°R 8 | 19°37 | 2° 3 | 1° 0 | 24°14 | 13° 7 | 23°35 | 12°59 | 11°51 | 16° 9 | 29°51 | S 5 |
| M 6 | 17 0 8 | 15°45'46 | 18°14 | 17°29 | 13° 5 | 20°17 | 2° 6 | 0°58 | 24°17 | 13° 8 | 23°37 | 12°49 | 11°48 | 16°15 | 29°56 | M 6 |
| T 7 | 17 4 4 | 16°43'04 | 0♒47 | 19°40 | 13° 1 | 20°58 | 2° 8 | 0°55 | 24°21 | 13° 8 | 23°38 | 12°40 | 11°44 | 16°22 | 0♊ 1 | T 7 |
| W 8 | 17 8 1 | 17°40'22 | 13°32 | 21°51 | 12°54 | 21°39 | 2°11 | 0°53 | 24°24 | 13° 8 | 23°40 | 12°33 | 11°41 | 16°29 | 0° 5 | W 8 |
| T 9 | 17 11 58 | 18°37'39 | 26°30 | 24° 1 | 12°44 | 22°19 | 2°13 | 0°50 | 24°27 | 13° 9 | 23°41 | 12°28 | 11°38 | 16°35 | 0°10 | T 9 |
| F 10 | 17 15 54 | 19°34'56 | 9♓45 | 26°10 | 12°32 | 23° 0 | 2°15 | 0°48 | 24°30 | 13° 9 | 23°42 | 12°26 | 11°35 | 16°42 | 0°14 | F 10 |
| S 11 | 17 19 51 | 20°32'12 | 23°17 | 28°17 | 12°18 | 23°40 | 2°17 | 0°46 | 24°34 | 13° 9 | 23°44 | 12°D26 | 11°32 | 16°49 | 0°19 | S 11 |
| S 12 | 17 23 47 | 21°29'29 | 7♈ 9 | 0♋23 | 12° 2 | 24°20 | 2°19 | 0°44 | 24°37 | 13° 9 | 23°45 | 12°R26 | 11°29 | 16°55 | 0°23 | S 12 |
| M13 | 17 27 44 | 22°26'45 | 21°21 | 2°28 | 11°43 | 25° 0 | 2°21 | 0°42 | 24°40 | 13° 9 | 23°47 | 12°26 | 11°25 | 17° 2 | 0°28 | M13 |
| T 14 | 17 31 40 | 23°24'00 | 5♉53 | 4°30 | 11°22 | 25°40 | 2°22 | 0°40 | 24°43 | 13° 9 | 23°48 | 12°24 | 11°22 | 17° 9 | 0°32 | T 14 |
| W15 | 17 35 37 | 24°21'16 | 20°41 | 6°31 | 10°58 | 26°20 | 2°23 | 0°38 | 24°46 | 13°R 9 | 23°50 | 12°20 | 11°19 | 17°15 | 0°37 | W15 |
| T 16 | 17 39 33 | 25°18'31 | 5♊39 | 8°30 | 10°33 | 27° 0 | 2°24 | 0°37 | 24°50 | 13° 9 | 23°51 | 12°13 | 11°16 | 17°22 | 0°41 | T 16 |
| F 17 | 17 43 30 | 26°15'47 | 20°38 | 10°26 | 10° 6 | 27°39 | 2°25 | 0°35 | 24°53 | 13° 9 | 23°52 | 12° 4 | 11°13 | 17°29 | 0°45 | F 17 |
| S 18 | 17 47 27 | 27°13'01 | 5♋31 | 12°21 | 9°37 | 28°19 | 2°26 | 0°33 | 24°56 | 13° 9 | 23°54 | 11°54 | 11°10 | 17°35 | 0°50 | S 18 |
| S 19 | 17 51 23 | 28°10'16 | 20° 6 | 14°13 | 9° 6 | 28°58 | 2°26 | 0°32 | 24°59 | 13° 9 | 23°55 | 11°43 | 11° 6 | 17°42 | 0°54 | S 19 |
| M20 | 17 55 20 | 29° 7'30 | 4♌19 | 16° 3 | 8°33 | 29°38 | 2°26 | 0°31 | 25° 2 | 13° 9 | 23°57 | 11°34 | 11° 3 | 17°49 | 0°58 | M20 |
| T 21 | 17 59 16 | 0♋ 4'43 | 18° 4 | 17°51 | 7°59 | 0♈17 | 2°R26 | 0°29 | 25° 5 | 13° 9 | 23°59 | 11°26 | 11° 0 | 17°55 | 1° 3 | T 21 |
| W22 | 18 3 13 | 1° 1'56 | 1♍21 | 19°37 | 7°25 | 0°56 | 2°26 | 0°28 | 25° 8 | 13° 8 | 24° 0 | 11°21 | 10°57 | 18° 2 | 1° 7 | W22 |
| T 23 | 18 7 9 | 1°59'08 | 14°12 | 21°21 | 6°49 | 1°34 | 2°26 | 0°27 | 25°11 | 13° 8 | 24° 2 | 11°18 | 10°54 | 18° 9 | 1°11 | T 23 |
| F 24 | 18 11 6 | 2°56'20 | 26°40 | 23° 2 | 6°12 | 2°13 | 2°25 | 0°26 | 25°14 | 13° 8 | 24° 3 | 11°17 | 10°50 | 18°15 | 1°15 | F 24 |
| S 25 | 18 15 3 | 3°53'32 | 8♎51 | 24°41 | 5°35 | 2°52 | 2°25 | 0°25 | 25°17 | 13° 8 | 24° 5 | 11°17 | 10°47 | 18°22 | 1°20 | S 25 |
| S 26 | 18 18 59 | 4°50'43 | 20°48 | 26°18 | 4°57 | 3°30 | 2°24 | 0°25 | 25°20 | 13° 7 | 24° 6 | 11°16 | 10°44 | 18°29 | 1°24 | S 26 |
| M27 | 18 22 56 | 5°47'53 | 2♏39 | 27°53 | 4°20 | 4° 8 | 2°23 | 0°24 | 25°23 | 13° 7 | 24° 8 | 11°15 | 10°41 | 18°35 | 1°28 | M27 |
| T 28 | 18 26 52 | 6°45'04 | 14°27 | 29°25 | 3°42 | 4°46 | 2°21 | 0°23 | 25°25 | 13° 6 | 24° 9 | 11°12 | 10°38 | 18°42 | 1°32 | T 28 |
| W29 | 18 30 49 | 7°42'14 | 26°18 | 0♌56 | 3° 5 | 5°24 | 2°20 | 0°23 | 25°28 | 13° 6 | 24°11 | 11° 6 | 10°35 | 18°49 | 1°36 | W29 |
| T 30 | 18 34 45 | 8♋39'24 | 8♐14 | 2♌24 | 2♋29 | 6♈ 2 | 2♓18 | 0♏23 | 25♉31 | 13♓ 6 | 24♋13 | 10♈57 | 10♈31 | 18♏55 | 1♊40 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 22n 8 | 19s54 | 2s52 | 21n38 | 0n12 | 24n57 | 2n 7 | 7s19 | 2s19 | 11s44 | 0s57 | 9s26 | 2n39 | 18n34 | 0s15 | 7s33 | 0s58 | 23n56 | 2n32 | 5n23 | 4n47 | 19s18 | 16n40 | 3s30 |
| T 2 | 22 16 | 23 41 | 3 40 | 22 10 | 0 23 | 24 48 | 1 58 | 7 4 | 2 20 | 11 43 | 0 57 | 9 25 | 2 38 | 18 35 | 0 15 | 7 33 | 0 58 | 23 55 | 2 32 | 5 20 | 4 45 | 19 21 | 16 41 | 3 30 |
| F 3 | 22 23 | 26 29 | 4 19 | 22 40 | 0 33 | 24 39 | 1 49 | 6 49 | 2 21 | 11 42 | 0 58 | 9 24 | 2 38 | 18 36 | 0 15 | 7 33 | 0 59 | 23 55 | 2 32 | 5 17 | 4 44 | 19 23 | 16 42 | 3 30 |
| S 4 | 22 30 | 28 6 | 4 46 | 23 7 | 0 43 | 24 29 | 1 40 | 6 34 | 2 23 | 11 41 | 0 58 | 9 23 | 2 38 | 18 37 | 0 14 | 7 33 | 0 59 | 23 55 | 2 32 | 5 13 | 4 43 | 19 26 | 16 43 | 3 31 |
| S 5 | 22 37 | 28 22 | 5 1 | 23 32 | 0 52 | 24 20 | 1 30 | 6 19 | 2 24 | 11 40 | 0 58 | 9 23 | 2 38 | 18 38 | 0 14 | 7 33 | 0 59 | 23 55 | 2 32 | 5 8 | 4 42 | 19 29 | 16 43 | 3 31 |
| M 6 | 22 43 | 27 13 | 5 2 | 23 54 | 1 1 | 24 10 | 1 20 | 6 4 | 2 25 | 11 39 | 0 58 | 9 22 | 2 38 | 18 39 | 0 14 | 7 33 | 0 59 | 23 55 | 2 32 | 5 4 | 4 40 | 19 31 | 16 44 | 3 31 |
| T 7 | 22 49 | 24 43 | 4 49 | 24 14 | 1 10 | 23 59 | 1 9 | 5 50 | 2 26 | 11 39 | 0 59 | 9 21 | 2 37 | 18 39 | 0 14 | 7 32 | 0 59 | 23 54 | 2 32 | 5 1 | 4 39 | 19 34 | 16 45 | 3 31 |
| W 8 | 22 55 | 20 57 | 4 21 | 24 31 | 1 17 | 23 49 | 0 58 | 5 35 | 2 27 | 11 38 | 0 59 | 9 21 | 2 37 | 18 40 | 0 14 | 7 32 | 0 59 | 23 54 | 2 32 | 4 58 | 4 38 | 19 37 | 16 46 | 3 31 |
| T 9 | 23 0 | 16 8 | 3 39 | 24 45 | 1 25 | 23 39 | 0 47 | 5 20 | 2 29 | 11 37 | 0 59 | 9 20 | 2 37 | 18 41 | 0 14 | 7 32 | 0 59 | 23 54 | 2 32 | 4 56 | 4 37 | 19 39 | 16 47 | 3 31 |
| F 10 | 23 4 | 10 28 | 2 45 | 24 57 | 1 31 | 23 28 | 0 35 | 5 5 | 2 30 | 11 37 | 1 0 | 9 20 | 2 37 | 18 42 | 0 14 | 7 32 | 0 59 | 23 54 | 2 32 | 4 55 | 4 35 | 19 42 | 16 47 | 3 31 |
| S 11 | 23 9 | 4 12 | 1 40 | 25 5 | 1 37 | 23 17 | 0 23 | 4 50 | 2 31 | 11 37 | 1 0 | 9 19 | 2 36 | 18 43 | 0 14 | 7 32 | 0 59 | 23 53 | 2 32 | 4 55 | 4 34 | 19 44 | 16 48 | 3 32 |
| S 12 | 23 13 | 2n25 | 0 28 | 25 11 | 1 42 | 23 6 | 0 10 | 4 35 | 2 32 | 11 36 | 1 0 | 9 19 | 2 36 | 18 43 | 0 14 | 7 32 | 0 59 | 23 53 | 2 32 | 4 55 | 4 33 | 19 47 | 16 49 | 3 32 |
| M13 | 23 16 | 9 4 | 0n47 | 25 14 | 1 47 | 22 55 | 0s 3 | 4 20 | 2 33 | 11 36 | 1 0 | 9 18 | 2 36 | 18 44 | 0 14 | 7 32 | 0 59 | 23 53 | 2 32 | 4 55 | 4 32 | 19 50 | 16 50 | 3 32 |
| T 14 | 23 19 | 15 24 | 2 1 | 25 15 | 1 50 | 22 44 | 0 16 | 4 5 | 2 34 | 11 36 | 1 1 | 9 18 | 2 36 | 18 45 | 0 14 | 7 32 | 0 59 | 23 53 | 2 32 | 4 55 | 4 30 | 19 52 | 16 50 | 3 32 |
| W15 | 23 22 | 20 58 | 3 8 | 25 12 | 1 53 | 22 32 | 0 29 | 3 50 | 2 36 | 11 35 | 1 1 | 9 17 | 2 35 | 18 46 | 0 14 | 7 32 | 0 59 | 23 53 | 2 32 | 4 53 | 4 29 | 19 55 | 16 51 | 3 32 |
| T 16 | 23 24 | 25 16 | 4 3 | 25 8 | 1 56 | 22 21 | 0 43 | 3 35 | 2 37 | 11 35 | 1 1 | 9 17 | 2 35 | 18 46 | 0 14 | 7 32 | 0 59 | 23 52 | 2 32 | 4 50 | 4 28 | 19 57 | 16 52 | 3 33 |
| F 17 | 23 26 | 27 49 | 4 41 | 25 1 | 1 57 | 22 9 | 0 57 | 3 21 | 2 38 | 11 35 | 1 2 | 9 17 | 2 35 | 18 47 | 0 14 | 7 32 | 0 59 | 23 52 | 2 32 | 4 47 | 4 27 | 20 0 | 16 53 | 3 33 |
| S 18 | 23 27 | 28 21 | 5 0 | 24 52 | 1 58 | 21 57 | 1 11 | 3 6 | 2 39 | 11 35 | 1 2 | 9 16 | 2 35 | 18 48 | 0 14 | 7 33 | 0 59 | 23 52 | 2 32 | 4 43 | 4 25 | 20 3 | 16 53 | 3 33 |
| S 19 | 23 28 | 26 53 | 4 58 | 24 40 | 1 58 | 21 45 | 1 25 | 2 51 | 2 40 | 11 36 | 1 2 | 9 16 | 2 34 | 18 49 | 0 14 | 7 33 | 0 59 | 23 52 | 2 32 | 4 39 | 4 24 | 20 5 | 16 54 | 3 33 |
| M20 | 23 29 | 23 43 | 4 38 | 24 27 | 1 57 | 21 33 | 1 39 | 2 37 | 2 41 | 11 36 | 1 2 | 9 16 | 2 34 | 18 49 | 0 14 | 7 33 | 0 59 | 23 51 | 2 32 | 4 35 | 4 23 | 20 8 | 16 55 | 3 33 |
| T 21 | 23 29 | 19 17 | 4 3 | 24 12 | 1 56 | 21 21 | 1 54 | 2 22 | 2 42 | 11 36 | 1 3 | 9 16 | 2 34 | 18 50 | 0 14 | 7 33 | 0 59 | 23 51 | 2 32 | 4 32 | 4 22 | 20 10 | 16 55 | 3 34 |
| W22 | 23 29 | 14 2 | 3 15 | 23 55 | 1 54 | 21 9 | 2 8 | 2 8 | 2 43 | 11 36 | 1 3 | 9 15 | 2 34 | 18 51 | 0 14 | 7 33 | 0 59 | 23 51 | 2 33 | 4 30 | 4 20 | 20 13 | 16 56 | 3 34 |
| T 23 | 23 28 | 8 21 | 2 18 | 23 37 | 1 51 | 20 57 | 2 22 | 1 53 | 2 45 | 11 37 | 1 3 | 9 15 | 2 33 | 18 52 | 0 14 | 7 33 | 0 59 | 23 51 | 2 33 | 4 29 | 4 19 | 20 16 | 16 57 | 3 34 |
| F 24 | 23 27 | 2 30 | 1 17 | 23 17 | 1 48 | 20 45 | 2 36 | 1 39 | 2 46 | 11 37 | 1 4 | 9 15 | 2 33 | 18 52 | 0 14 | 7 33 | 0 59 | 23 50 | 2 33 | 4 28 | 4 18 | 20 18 | 16 57 | 3 34 |
| S 25 | 23 25 | 3s19 | 0 13 | 22 56 | 1 44 | 20 33 | 2 49 | 1 25 | 2 47 | 11 38 | 1 4 | 9 15 | 2 33 | 18 53 | 0 14 | 7 33 | 0 59 | 23 50 | 2 33 | 4 28 | 4 17 | 20 21 | 16 58 | 3 34 |
| S 26 | 23 24 | 8 55 | 0s50 | 22 33 | 1 39 | 20 21 | 3 3 | 1 10 | 2 48 | 11 38 | 1 4 | 9 15 | 2 33 | 18 54 | 0 14 | 7 34 | 0 59 | 23 50 | 2 33 | 4 28 | 4 15 | 20 23 | 16 58 | 3 35 |
| M27 | 23 21 | 14 9 | 1 51 | 22 9 | 1 34 | 20 9 | 3 16 | 0 56 | 2 49 | 11 39 | 1 4 | 9 15 | 2 32 | 18 54 | 0 14 | 7 34 | 1 0 | 23 50 | 2 33 | 4 28 | 4 14 | 20 26 | 16 59 | 3 35 |
| T 28 | 23 19 | 18 51 | 2 46 | 21 45 | 1 28 | 19 58 | 3 28 | 0 42 | 2 50 | 11 40 | 1 5 | 9 15 | 2 32 | 18 55 | 0 14 | 7 34 | 1 0 | 23 50 | 2 33 | 4 26 | 4 13 | 20 28 | 17 0 | 3 35 |
| W29 | 23 15 | 22 50 | 3 34 | 21 19 | 1 22 | 19 46 | 3 41 | 0 28 | 2 51 | 11 41 | 1 5 | 9 15 | 2 32 | 18 56 | 0 14 | 7 34 | 1 0 | 23 49 | 2 33 | 4 24 | 4 12 | 20 31 | 17 0 | 3 35 |
| T 30 | 23n12 | 25s53 | 4s13 | 20n53 | 1n15 | 19n35 | 3s52 | 0s14 | 2s52 | 11s41 | 1s 5 | 9s15 | 2n32 | 18n56 | 0s14 | 7s34 | 1s 0 | 23n49 | 2n33 | 4n20 | 4n10 | 20s33 | 17n 1 | 3s36 |

Julian Day Number = 2338106.5, Delta T = 18.69 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'17, Lahiri = 19°31'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## JULY 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 38 42 | 9♋36'34 | 20♐19 | 3♌49 | 1°R54 | 6♈40 | 2°R16 | 0°R22 | 25♉34 | 13°R 5 | 24♋14 | 10°R46 | 10♈28 | 19♏ 2 | 1♊44 | F 1 |
| S 2 | 18 42 38 | 10°33'44 | 2♑35 | 5°12 | 1♋19 | 7°17 | 2♓14 | 0♏22 | 25°36 | 13♓ 5 | 24°16 | 10♈33 | 10°25 | 19° 9 | 1°48 | S 2 |
| S 3 | 18 46 35 | 11°30'54 | 15° 1 | 6°33 | 0°47 | 7°54 | 2°12 | 0°D22 | 25°39 | 13° 4 | 24°17 | 10°20 | 10°22 | 19°15 | 1°52 | S 3 |
| M 4 | 18 50 32 | 12°28'05 | 27°40 | 7°52 | 0°15 | 8°31 | 2° 9 | 0°22 | 25°42 | 13° 3 | 24°19 | 10° 7 | 10°19 | 19°22 | 1°56 | M 4 |
| T 5 | 18 54 28 | 13°25'15 | 10♒30 | 9° 8 | 29♊45 | 9° 8 | 2° 7 | 0°22 | 25°44 | 13° 3 | 24°21 | 9°56 | 10°16 | 19°29 | 2° 0 | T 5 |
| W 6 | 18 58 25 | 14°22'26 | 23°31 | 10°21 | 29°18 | 9°45 | 2° 4 | 0°23 | 25°47 | 13° 2 | 24°22 | 9°48 | 10°12 | 19°35 | 2° 4 | W 6 |
| T 7 | 19 2 21 | 15°19'37 | 6♓44 | 11°32 | 28°52 | 10°21 | 2° 1 | 0°23 | 25°50 | 13° 1 | 24°24 | 9°42 | 10° 9 | 19°42 | 2° 7 | T 7 |
| F 8 | 19 6 18 | 16°16'49 | 20° 8 | 12°41 | 28°28 | 10°58 | 1°58 | 0°23 | 25°52 | 13° 1 | 24°26 | 9°39 | 10° 6 | 19°49 | 2°11 | F 8 |
| S 9 | 19 10 14 | 17°14'01 | 3♈45 | 13°46 | 28° 6 | 11°34 | 1°54 | 0°24 | 25°55 | 13° 0 | 24°27 | 9°38 | 10° 3 | 19°55 | 2°15 | S 9 |
| S 10 | 19 14 11 | 18°11'13 | 17°35 | 14°49 | 27°47 | 12°10 | 1°51 | 0°24 | 25°57 | 12°59 | 24°29 | 9°38 | 10° 0 | 20° 2 | 2°19 | S 10 |
| M11 | 19 18 7 | 19° 8'27 | 1♉39 | 15°49 | 27°30 | 12°45 | 1°47 | 0°25 | 25°59 | 12°59 | 24°31 | 9°38 | 9°56 | 20° 9 | 2°22 | M11 |
| T 12 | 19 22 4 | 20° 5'41 | 15°56 | 16°46 | 27°15 | 13°21 | 1°43 | 0°26 | 26° 2 | 12°58 | 24°32 | 9°36 | 9°53 | 20°16 | 2°26 | T 12 |
| W13 | 19 26 1 | 21° 2'56 | 0♊25 | 17°40 | 27° 3 | 13°56 | 1°39 | 0°27 | 26° 4 | 12°57 | 24°34 | 9°32 | 9°50 | 20°22 | 2°29 | W13 |
| T 14 | 19 29 57 | 22° 0'12 | 15° 1 | 18°30 | 26°53 | 14°31 | 1°35 | 0°28 | 26° 6 | 12°56 | 24°35 | 9°25 | 9°47 | 20°29 | 2°33 | T 14 |
| F 15 | 19 33 54 | 22°57'28 | 29°39 | 19°17 | 26°45 | 15° 6 | 1°30 | 0°29 | 26° 9 | 12°55 | 24°37 | 9°16 | 9°44 | 20°36 | 2°36 | F 15 |
| S 16 | 19 37 50 | 23°54'45 | 14♋11 | 20° 1 | 26°40 | 15°40 | 1°26 | 0°30 | 26°11 | 12°54 | 24°39 | 9° 5 | 9°41 | 20°42 | 2°40 | S 16 |
| S 17 | 19 41 47 | 24°52'03 | 28°31 | 20°41 | 26°38 | 16°14 | 1°21 | 0°31 | 26°13 | 12°53 | 24°40 | 8°54 | 9°37 | 20°49 | 2°43 | S 17 |
| M18 | 19 45 43 | 25°49'21 | 12♌32 | 21°17 | 26°D37 | 16°48 | 1°16 | 0°33 | 26°15 | 12°52 | 24°42 | 8°44 | 9°34 | 20°56 | 2°46 | M18 |
| T 19 | 19 49 40 | 26°46'40 | 26°11 | 21°49 | 26°39 | 17°22 | 1°11 | 0°34 | 26°17 | 12°51 | 24°44 | 8°36 | 9°31 | 21° 2 | 2°50 | T 19 |
| W20 | 19 53 36 | 27°43'59 | 9♍25 | 22°17 | 26°43 | 17°55 | 1° 6 | 0°36 | 26°20 | 12°50 | 24°45 | 8°30 | 9°28 | 21° 9 | 2°53 | W20 |
| T 21 | 19 57 33 | 28°41'19 | 22°15 | 22°41 | 26°49 | 18°28 | 1° 0 | 0°38 | 26°22 | 12°49 | 24°47 | 8°27 | 9°25 | 21°16 | 2°56 | T 21 |
| F 22 | 20 1 30 | 29°38'39 | 4♎44 | 23° 0 | 26°58 | 19° 1 | 0°55 | 0°39 | 26°24 | 12°48 | 24°49 | 8°D26 | 9°22 | 21°22 | 2°59 | F 22 |
| S 23 | 20 5 26 | 0♌35'59 | 16°56 | 23°14 | 27° 8 | 19°34 | 0°49 | 0°41 | 26°26 | 12°47 | 24°50 | 8°26 | 9°18 | 21°29 | 3° 2 | S 23 |
| S 24 | 20 9 23 | 1°33'20 | 28°55 | 23°24 | 27°21 | 20° 6 | 0°43 | 0°43 | 26°27 | 12°46 | 24°52 | 8°R27 | 9°15 | 21°36 | 3° 5 | S 24 |
| M25 | 20 13 19 | 2°30'42 | 10♏47 | 23°R29 | 27°36 | 20°38 | 0°37 | 0°45 | 26°29 | 12°45 | 24°54 | 8°26 | 9°12 | 21°42 | 3° 8 | M25 |
| T 26 | 20 17 16 | 3°28'04 | 22°37 | 23°29 | 27°52 | 21°10 | 0°31 | 0°47 | 26°31 | 12°44 | 24°55 | 8°24 | 9° 9 | 21°49 | 3°11 | T 26 |
| W27 | 20 21 12 | 4°25'27 | 4♐30 | 23°23 | 28°11 | 21°41 | 0°25 | 0°50 | 26°33 | 12°42 | 24°57 | 8°20 | 9° 6 | 21°56 | 3°14 | W27 |
| T 28 | 20 25 9 | 5°22'51 | 16°30 | 23°12 | 28°31 | 22°12 | 0°18 | 0°52 | 26°35 | 12°41 | 24°59 | 8°14 | 9° 2 | 22° 2 | 3°17 | T 28 |
| F 29 | 20 29 5 | 6°20'15 | 28°42 | 22°56 | 28°53 | 22°43 | 0°12 | 0°54 | 26°36 | 12°40 | 25° 0 | 8° 5 | 8°59 | 22° 9 | 3°20 | F 29 |
| S 30 | 20 33 2 | 7°17'40 | 11♑ 8 | 22°35 | 29°17 | 23°13 | 0° 5 | 0°57 | 26°38 | 12°39 | 25° 2 | 7°56 | 8°56 | 22°16 | 3°22 | S 30 |
| S 31 | 20 36 59 | 8♌15'06 | 23♑48 | 22♌ 9 | 29♊42 | 23♈43 | 29♒59 | 1♏ 0 | 26♉40 | 12♓37 | 25♋ 3 | 7♈45 | 8♈53 | 22♏22 | 3♊25 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 23n 8 | 27s48 | 4s41 | 20n26 | 1n 8 | 19n25 | 4s 4 | 0s 0 | 2s53 | 11s42 | 1s 6 | 9s16 | 2n31 | 18n57 | 0s14 | 7s35 | 1s 0 | 23n49 | 2n33 | 4n16 | 4n 9 | 20s36 | 17n 1 | 3s36 | F 1 |
| S 2 | 23 4 | 28 24 | 4 57 | 19 58 | 1 0 | 19 14 | 4 14 | 0n14 | 2 54 | 11 43 | 1 6 | 9 16 | 2 31 | 18 58 | 0 14 | 7 35 | 1 0 | 23 49 | 2 33 | 4 11 | 4 8 | 20 38 | 17 2 | 3 36 | S 2 |
| S 3 | 22 59 | 27 35 | 4 59 | 19 30 | 0 52 | 19 4 | 4 24 | 0 28 | 2 55 | 11 44 | 1 6 | 9 16 | 2 31 | 18 58 | 0 14 | 7 35 | 1 0 | 23 48 | 2 33 | 4 6 | 4 7 | 20 41 | 17 2 | 3 36 | S 3 |
| M 4 | 22 54 | 25 20 | 4 46 | 19 2 | 0 43 | 18 55 | 4 34 | 0 41 | 2 56 | 11 46 | 1 6 | 9 16 | 2 30 | 18 59 | 0 14 | 7 35 | 1 0 | 23 48 | 2 33 | 4 1 | 4 5 | 20 43 | 17 3 | 3 37 | M 4 |
| T 5 | 22 48 | 21 47 | 4 19 | 18 33 | 0 34 | 18 46 | 4 43 | 0 55 | 2 57 | 11 47 | 1 7 | 9 17 | 2 30 | 19 0 | 0 14 | 7 36 | 1 0 | 23 48 | 2 33 | 3 57 | 4 4 | 20 46 | 17 3 | 3 37 | T 5 |
| W 6 | 22 42 | 17 8 | 3 38 | 18 4 | 0 24 | 18 38 | 4 51 | 1 8 | 2 58 | 11 48 | 1 7 | 9 17 | 2 30 | 19 0 | 0 14 | 7 36 | 1 0 | 23 48 | 2 33 | 3 53 | 4 3 | 20 48 | 17 4 | 3 37 | W 6 |
| T 7 | 22 36 | 11 36 | 2 44 | 17 35 | 0 14 | 18 30 | 4 59 | 1 22 | 2 59 | 11 49 | 1 7 | 9 17 | 2 30 | 19 1 | 0 14 | 7 36 | 1 0 | 23 47 | 2 33 | 3 51 | 4 2 | 20 51 | 17 4 | 3 37 | T 7 |
| F 8 | 22 29 | 5 28 | 1 41 | 17 5 | 0 4 | 18 23 | 5 6 | 1 35 | 3 0 | 11 51 | 1 8 | 9 18 | 2 29 | 19 1 | 0 14 | 7 36 | 1 0 | 23 47 | 2 33 | 3 50 | 4 0 | 20 53 | 17 5 | 3 38 | F 8 |
| S 9 | 22 22 | 1n 1 | 0 31 | 16 36 | 0s 7 | 18 16 | 5 12 | 1 48 | 3 1 | 11 52 | 1 8 | 9 18 | 2 29 | 19 2 | 0 14 | 7 37 | 1 0 | 23 47 | 2 33 | 3 50 | 3 59 | 20 56 | 17 5 | 3 38 | S 9 |
| S 10 | 22 15 | 7 34 | 0n42 | 16 7 | 0 18 | 18 10 | 5 18 | 2 1 | 3 2 | 11 54 | 1 8 | 9 19 | 2 29 | 19 3 | 0 14 | 7 37 | 1 0 | 23 47 | 2 33 | 3 49 | 3 58 | 20 58 | 17 6 | 3 38 | S 10 |
| M11 | 22 7 | 13 51 | 1 54 | 15 39 | 0 30 | 18 4 | 5 23 | 2 14 | 3 3 | 11 55 | 1 8 | 9 19 | 2 29 | 19 3 | 0 14 | 7 37 | 1 0 | 23 46 | 2 33 | 3 49 | 3 57 | 21 1 | 17 6 | 3 38 | M11 |
| T 12 | 21 59 | 19 30 | 2 59 | 15 10 | 0 42 | 17 59 | 5 28 | 2 27 | 3 4 | 11 57 | 1 9 | 9 20 | 2 28 | 19 4 | 0 14 | 7 38 | 1 0 | 23 46 | 2 34 | 3 49 | 3 55 | 21 3 | 17 7 | 3 39 | T 12 |
| W13 | 21 50 | 24 6 | 3 54 | 14 43 | 0 54 | 17 55 | 5 32 | 2 40 | 3 5 | 11 59 | 1 9 | 9 20 | 2 28 | 19 4 | 0 14 | 7 38 | 1 0 | 23 46 | 2 34 | 3 47 | 3 54 | 21 6 | 17 7 | 3 39 | W13 |
| T 14 | 21 41 | 27 11 | 4 35 | 14 15 | 1 6 | 17 51 | 5 35 | 2 53 | 3 6 | 12 1 | 1 9 | 9 21 | 2 28 | 19 5 | 0 14 | 7 39 | 1 0 | 23 46 | 2 34 | 3 44 | 3 53 | 21 8 | 17 7 | 3 39 | T 14 |
| F 15 | 21 31 | 28 26 | 4 57 | 13 49 | 1 19 | 17 48 | 5 38 | 3 5 | 3 7 | 12 2 | 1 9 | 9 21 | 2 28 | 19 5 | 0 14 | 7 39 | 1 0 | 23 45 | 2 34 | 3 41 | 3 52 | 21 11 | 17 8 | 3 39 | F 15 |
| S 16 | 21 22 | 27 42 | 5 0 | 13 23 | 1 32 | 17 46 | 5 41 | 3 18 | 3 7 | 12 4 | 1 10 | 9 22 | 2 27 | 19 6 | 0 14 | 7 39 | 1 0 | 23 45 | 2 34 | 3 36 | 3 50 | 21 13 | 17 8 | 3 40 | S 16 |
| S 17 | 21 12 | 25 8 | 4 44 | 12 58 | 1 45 | 17 44 | 5 43 | 3 30 | 3 8 | 12 6 | 1 10 | 9 23 | 2 27 | 19 6 | 0 14 | 7 40 | 1 0 | 23 45 | 2 34 | 3 32 | 3 49 | 21 16 | 17 9 | 3 40 | S 17 |
| M18 | 21 1 | 21 5 | 4 11 | 12 34 | 1 58 | 17 42 | 5 44 | 3 42 | 3 9 | 12 8 | 1 10 | 9 24 | 2 27 | 19 7 | 0 14 | 7 40 | 1 0 | 23 45 | 2 34 | 3 28 | 3 48 | 21 18 | 17 9 | 3 40 | M18 |
| T 19 | 20 50 | 16 1 | 3 24 | 12 11 | 2 12 | 17 41 | 5 45 | 3 54 | 3 10 | 12 10 | 1 10 | 9 24 | 2 26 | 19 7 | 0 14 | 7 40 | 1 0 | 23 45 | 2 34 | 3 25 | 3 47 | 21 21 | 17 9 | 3 41 | T 19 |
| W20 | 20 39 | 10 20 | 2 28 | 11 49 | 2 25 | 17 41 | 5 46 | 4 6 | 3 11 | 12 12 | 1 11 | 9 25 | 2 26 | 19 8 | 0 14 | 7 41 | 1 0 | 23 44 | 2 34 | 3 23 | 3 45 | 21 23 | 17 10 | 3 41 | W20 |
| T 21 | 20 28 | 4 23 | 1 25 | 11 29 | 2 38 | 17 41 | 5 46 | 4 18 | 3 12 | 12 15 | 1 11 | 9 26 | 2 26 | 19 8 | 0 14 | 7 41 | 1 0 | 23 44 | 2 34 | 3 21 | 3 44 | 21 25 | 17 10 | 3 41 | T 21 |
| F 22 | 20 16 | 1s35 | 0 20 | 11 11 | 2 51 | 17 41 | 5 46 | 4 30 | 3 12 | 12 17 | 1 11 | 9 27 | 2 26 | 19 9 | 0 14 | 7 42 | 1 0 | 23 44 | 2 34 | 3 21 | 3 43 | 21 28 | 17 10 | 3 42 | F 22 |
| S 23 | 20 3 | 7 21 | 0s45 | 10 54 | 3 4 | 17 42 | 5 45 | 4 41 | 3 13 | 12 19 | 1 11 | 9 28 | 2 25 | 19 9 | 0 14 | 7 42 | 1 0 | 23 44 | 2 34 | 3 21 | 3 42 | 21 30 | 17 10 | 3 42 | S 23 |
| S 24 | 19 51 | 12 46 | 1 47 | 10 38 | 3 17 | 17 43 | 5 44 | 4 52 | 3 14 | 12 21 | 1 12 | 9 29 | 2 25 | 19 10 | 0 14 | 7 43 | 1 1 | 23 43 | 2 34 | 3 21 | 3 40 | 21 33 | 17 11 | 3 42 | S 24 |
| M25 | 19 38 | 17 40 | 2 43 | 10 25 | 3 30 | 17 45 | 5 43 | 5 4 | 3 15 | 12 24 | 1 12 | 9 30 | 2 25 | 19 10 | 0 14 | 7 43 | 1 1 | 23 43 | 2 34 | 3 21 | 3 39 | 21 35 | 17 11 | 3 42 | M25 |
| T 26 | 19 25 | 21 53 | 3 33 | 10 14 | 3 42 | 17 46 | 5 42 | 5 15 | 3 16 | 12 26 | 1 12 | 9 31 | 2 25 | 19 11 | 0 14 | 7 44 | 1 1 | 23 43 | 2 34 | 3 20 | 3 38 | 21 37 | 17 11 | 3 43 | T 26 |
| W27 | 19 11 | 25 13 | 4 13 | 10 5 | 3 53 | 17 49 | 5 40 | 5 26 | 3 16 | 12 28 | 1 12 | 9 32 | 2 24 | 19 11 | 0 14 | 7 44 | 1 1 | 23 43 | 2 35 | 3 19 | 3 37 | 21 40 | 17 11 | 3 43 | W27 |
| T 28 | 18 57 | 27 29 | 4 43 | 9 58 | 4 4 | 17 51 | 5 38 | 5 37 | 3 17 | 12 31 | 1 13 | 9 33 | 2 24 | 19 11 | 0 14 | 7 45 | 1 1 | 23 42 | 2 35 | 3 16 | 3 35 | 21 42 | 17 12 | 3 43 | T 28 |
| F 29 | 18 43 | 28 28 | 5 0 | 9 53 | 4 14 | 17 53 | 5 35 | 5 47 | 3 18 | 12 33 | 1 13 | 9 34 | 2 24 | 19 12 | 0 14 | 7 45 | 1 1 | 23 42 | 2 35 | 3 13 | 3 34 | 21 45 | 17 12 | 3 44 | F 29 |
| S 30 | 18 29 | 28 3 | 5 3 | 9 51 | 4 23 | 17 56 | 5 33 | 5 58 | 3 18 | 12 36 | 1 13 | 9 35 | 2 24 | 19 12 | 0 14 | 7 46 | 1 1 | 23 42 | 2 35 | 3 9 | 3 33 | 21 47 | 17 12 | 3 44 | S 30 |
| S 31 | 18n14 | 26s11 | 4s52 | 9n52 | 4s31 | 17n59 | 5s30 | 6n 8 | 3s19 | 12s38 | 1s13 | 9s36 | 2n23 | 19n13 | 0s14 | 7s46 | 1s 1 | 23n42 | 2n35 | 3n 5 | 3n32 | 21s49 | 17n12 | 3s44 | S 31 |

Julian Day Number = 2338136.5, Delta T = 18.65 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'22, Lahiri = 19°31'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## AUGUST 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 40 55 | 9♌12'33 | 6♒44 | 21°R39 | 0♋ 9 | 24♈13 | 29°R52 | 1♏ 2 | 26♉41 | 12°R36 | 25♋ 5 | 7°R35 | 8♈50 | 22♏29 | 3♊28 | M 1 |
| T 2 | 20 44 52 | 10°10'01 | 19°54 | 21♌ 3 | 0°37 | 24°42 | 29♒45 | 1° 5 | 26°43 | 12♓35 | 25° 7 | 7♈26 | 8°47 | 22°36 | 3°30 | T 2 |
| W 3 | 20 48 48 | 11° 7'30 | 3♓17 | 20°24 | 1° 7 | 25°11 | 29°38 | 1° 8 | 26°44 | 12°33 | 25° 8 | 7°20 | 8°43 | 22°43 | 3°33 | W 3 |
| T 4 | 20 52 45 | 12° 5'00 | 16°52 | 19°42 | 1°39 | 25°39 | 29°31 | 1°11 | 26°46 | 12°32 | 25°10 | 7°16 | 8°40 | 22°49 | 3°35 | T 4 |
| F 5 | 20 56 41 | 13° 2'31 | 0♈36 | 18°56 | 2°12 | 26° 7 | 29°24 | 1°14 | 26°47 | 12°31 | 25°11 | 7°14 | 8°37 | 22°56 | 3°38 | F 5 |
| S 6 | 21 0 38 | 14° 0'04 | 14°28 | 18° 8 | 2°46 | 26°35 | 29°16 | 1°17 | 26°48 | 12°29 | 25°13 | 7°D14 | 8°34 | 23° 3 | 3°40 | S 6 |
| S 7 | 21 4 34 | 14°57'38 | 28°28 | 17°19 | 3°21 | 27° 2 | 29° 9 | 1°20 | 26°50 | 12°28 | 25°15 | 7°15 | 8°31 | 23° 9 | 3°42 | S 7 |
| M 8 | 21 8 31 | 15°55'14 | 12♉33 | 16°30 | 3°58 | 27°29 | 29° 2 | 1°24 | 26°51 | 12°27 | 25°16 | 7°R16 | 8°28 | 23°16 | 3°44 | M 8 |
| T 9 | 21 12 28 | 16°52'51 | 26°44 | 15°41 | 4°36 | 27°56 | 28°54 | 1°27 | 26°52 | 12°25 | 25°18 | 7°15 | 8°24 | 23°23 | 3°47 | T 9 |
| W10 | 21 16 24 | 17°50'30 | 10♊58 | 14°53 | 5°15 | 28°22 | 28°46 | 1°30 | 26°53 | 12°24 | 25°19 | 7°13 | 8°21 | 23°29 | 3°49 | W10 |
| T 11 | 21 20 21 | 18°48'10 | 25°13 | 14° 8 | 5°55 | 28°47 | 28°39 | 1°34 | 26°54 | 12°22 | 25°21 | 7° 9 | 8°18 | 23°36 | 3°51 | T 11 |
| F 12 | 21 24 17 | 19°45'52 | 9♋25 | 13°27 | 6°36 | 29°12 | 28°31 | 1°38 | 26°55 | 12°21 | 25°22 | 7° 3 | 8°15 | 23°43 | 3°53 | F 12 |
| S 13 | 21 28 14 | 20°43'36 | 23°31 | 12°49 | 7°19 | 29°37 | 28°23 | 1°41 | 26°56 | 12°19 | 25°24 | 6°56 | 8°12 | 23°49 | 3°55 | S 13 |
| S 14 | 21 32 10 | 21°41'21 | 7♌26 | 12°17 | 8° 2 | 0♉ 1 | 28°16 | 1°45 | 26°57 | 12°18 | 25°25 | 6°48 | 8° 8 | 23°56 | 3°56 | S 14 |
| M15 | 21 36 7 | 22°39'08 | 21° 5 | 11°50 | 8°46 | 0°25 | 28° 8 | 1°49 | 26°58 | 12°16 | 25°27 | 6°42 | 8° 5 | 24° 3 | 3°58 | M15 |
| T 16 | 21 40 4 | 23°36'55 | 4♍28 | 11°30 | 9°31 | 0°48 | 28° 0 | 1°53 | 26°59 | 12°15 | 25°28 | 6°36 | 8° 2 | 24° 9 | 4° 0 | T 16 |
| W17 | 21 44 0 | 24°34'45 | 17°30 | 11°17 | 10°17 | 1°10 | 27°52 | 1°57 | 27° 0 | 12°13 | 25°30 | 6°33 | 7°59 | 24°16 | 4° 2 | W17 |
| T 18 | 21 47 57 | 25°32'35 | 0♎13 | 11°D11 | 11° 4 | 1°32 | 27°44 | 2° 1 | 27° 1 | 12°12 | 25°31 | 6°31 | 7°56 | 24°23 | 4° 3 | T 18 |
| F 19 | 21 51 53 | 26°30'27 | 12°39 | 11°13 | 11°51 | 1°54 | 27°36 | 2° 5 | 27° 1 | 12°10 | 25°33 | 6°D31 | 7°53 | 24°29 | 4° 5 | F 19 |
| S 20 | 21 55 50 | 27°28'20 | 24°49 | 11°23 | 12°40 | 2°14 | 27°28 | 2°10 | 27° 2 | 12° 8 | 25°34 | 6°32 | 7°49 | 24°36 | 4° 6 | S 20 |
| S 21 | 21 59 46 | 28°26'14 | 6♏48 | 11°40 | 13°29 | 2°35 | 27°20 | 2°14 | 27° 3 | 12° 7 | 25°36 | 6°34 | 7°46 | 24°43 | 4° 8 | S 21 |
| M22 | 22 3 43 | 29°24'10 | 18°41 | 12° 6 | 14°19 | 2°55 | 27°13 | 2°19 | 27° 3 | 12° 5 | 25°37 | 6°35 | 7°43 | 24°50 | 4° 9 | M22 |
| T 23 | 22 7 39 | 0♍22'07 | 0♐32 | 12°39 | 15° 9 | 3°14 | 27° 5 | 2°23 | 27° 4 | 12° 4 | 25°39 | 6°R35 | 7°40 | 24°56 | 4°10 | T 23 |
| W24 | 22 11 36 | 1°20'06 | 12°26 | 13°21 | 16° 1 | 3°32 | 26°57 | 2°28 | 27° 4 | 12° 2 | 25°40 | 6°35 | 7°37 | 25° 3 | 4°11 | W24 |
| T 25 | 22 15 32 | 2°18'06 | 24°28 | 14° 9 | 16°52 | 3°50 | 26°49 | 2°32 | 27° 4 | 12° 0 | 25°41 | 6°33 | 7°34 | 25°10 | 4°12 | T 25 |
| F 26 | 22 19 29 | 3°16'07 | 6♑43 | 15° 6 | 17°45 | 4° 7 | 26°41 | 2°37 | 27° 5 | 11°59 | 25°43 | 6°29 | 7°30 | 25°16 | 4°14 | F 26 |
| S 27 | 22 23 26 | 4°14'10 | 19°14 | 16° 9 | 18°38 | 4°24 | 26°33 | 2°42 | 27° 5 | 11°57 | 25°44 | 6°24 | 7°27 | 25°23 | 4°15 | S 27 |
| S 28 | 22 27 22 | 5°12'14 | 2♒ 3 | 17°19 | 19°32 | 4°40 | 26°26 | 2°47 | 27° 5 | 11°55 | 25°45 | 6°19 | 7°24 | 25°30 | 4°15 | S 28 |
| M29 | 22 31 19 | 6°10'20 | 15°12 | 18°35 | 20°26 | 4°55 | 26°18 | 2°52 | 27° 6 | 11°54 | 25°47 | 6°14 | 7°21 | 25°36 | 4°16 | M29 |
| T 30 | 22 35 15 | 7° 8'27 | 28°40 | 19°57 | 21°21 | 5°10 | 26°10 | 2°57 | 27° 6 | 11°52 | 25°48 | 6°10 | 7°18 | 25°43 | 4°17 | T 30 |
| W31 | 22 39 12 | 8♍ 6'36 | 12♓25 | 21♌24 | 22♋17 | 5♉24 | 26♒ 3 | 3♏ 2 | 27♉ 6 | 11♓51 | 25♋49 | 6♈ 7 | 7♈14 | 25♏50 | 4♊18 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17n59 | 22s55 | 4s26 | 9n55 | 4s38 | 18n 2 | 5s27 | 6n18 | 3s20 | 12s41 | 1s13 | 9s37 | 2n23 | 19n13 | 0s14 | 7s47 | 1s 1 | 23n42 | 2n35 | 3n 1 | 3n30 | 21s52 | 17n12 | 3s45 |
| T 2 | 17 44 | 18 26 | 3 45 | 10 1 | 4 44 | 18 6 | 5 23 | 6 29 | 3 20 | 12 44 | 1 14 | 9 38 | 2 23 | 19 13 | 0 14 | 7 47 | 1 1 | 23 41 | 2 35 | 2 57 | 3 29 | 21 54 | 17 13 | 3 45 |
| W 3 | 17 28 | 12 59 | 2 51 | 10 9 | 4 48 | 18 9 | 5 20 | 6 38 | 3 21 | 12 46 | 1 14 | 9 40 | 2 23 | 19 14 | 0 14 | 7 48 | 1 1 | 23 41 | 2 35 | 2 55 | 3 28 | 21 56 | 17 13 | 3 45 |
| T 4 | 17 12 | 6 50 | 1 47 | 10 20 | 4 50 | 18 12 | 5 16 | 6 48 | 3 22 | 12 49 | 1 14 | 9 41 | 2 22 | 19 14 | 0 15 | 7 48 | 1 1 | 23 41 | 2 35 | 2 53 | 3 27 | 21 59 | 17 13 | 3 46 |
| F 5 | 16 56 | 0 18 | 0 36 | 10 34 | 4 51 | 18 15 | 5 12 | 6 58 | 3 22 | 12 52 | 1 14 | 9 42 | 2 22 | 19 14 | 0 15 | 7 49 | 1 1 | 23 41 | 2 35 | 2 53 | 3 25 | 22 1 | 17 13 | 3 46 |
| S 6 | 16 39 | 6n19 | 0n39 | 10 49 | 4 50 | 18 19 | 5 8 | 7 7 | 3 23 | 12 54 | 1 14 | 9 44 | 2 22 | 19 15 | 0 15 | 7 49 | 1 1 | 23 41 | 2 35 | 2 53 | 3 24 | 22 3 | 17 13 | 3 46 |
| S 7 | 16 23 | 12 41 | 1 52 | 11 6 | 4 47 | 18 22 | 5 4 | 7 17 | 3 23 | 12 57 | 1 15 | 9 45 | 2 22 | 19 15 | 0 15 | 7 50 | 1 1 | 23 40 | 2 35 | 2 53 | 3 23 | 22 6 | 17 13 | 3 47 |
| M 8 | 16 6 | 18 28 | 2 58 | 11 26 | 4 42 | 18 25 | 5 0 | 7 26 | 3 24 | 13 0 | 1 15 | 9 46 | 2 21 | 19 15 | 0 15 | 7 51 | 1 1 | 23 40 | 2 36 | 2 53 | 3 22 | 22 8 | 17 13 | 3 47 |
| T 9 | 15 48 | 23 15 | 3 54 | 11 46 | 4 36 | 18 29 | 4 56 | 7 35 | 3 24 | 13 3 | 1 15 | 9 48 | 2 21 | 19 15 | 0 15 | 7 51 | 1 1 | 23 40 | 2 36 | 2 53 | 3 20 | 22 10 | 17 13 | 3 47 |
| W10 | 15 31 | 26 41 | 4 36 | 12 8 | 4 27 | 18 32 | 4 51 | 7 43 | 3 25 | 13 6 | 1 15 | 9 49 | 2 21 | 19 16 | 0 15 | 7 52 | 1 1 | 23 40 | 2 36 | 2 52 | 3 19 | 22 13 | 17 13 | 3 48 |
| T 11 | 15 13 | 28 24 | 5 1 | 12 31 | 4 17 | 18 35 | 4 47 | 7 52 | 3 25 | 13 8 | 1 15 | 9 51 | 2 21 | 19 16 | 0 15 | 7 52 | 1 1 | 23 40 | 2 36 | 2 51 | 3 18 | 22 15 | 17 13 | 3 48 |
| F 12 | 14 55 | 28 15 | 5 7 | 12 54 | 4 5 | 18 38 | 4 42 | 8 0 | 3 26 | 13 11 | 1 15 | 9 52 | 2 20 | 19 16 | 0 15 | 7 53 | 1 1 | 23 39 | 2 36 | 2 48 | 3 17 | 22 17 | 17 13 | 3 48 |
| S 13 | 14 37 | 26 16 | 4 55 | 13 17 | 3 52 | 18 40 | 4 37 | 8 9 | 3 26 | 13 14 | 1 15 | 9 54 | 2 20 | 19 16 | 0 15 | 7 53 | 1 1 | 23 39 | 2 36 | 2 45 | 3 15 | 22 20 | 17 13 | 3 49 |
| S 14 | 14 18 | 22 43 | 4 25 | 13 40 | 3 38 | 18 43 | 4 32 | 8 17 | 3 26 | 13 17 | 1 16 | 9 55 | 2 20 | 19 17 | 0 15 | 7 54 | 1 1 | 23 39 | 2 36 | 2 42 | 3 14 | 22 22 | 17 13 | 3 49 |
| M15 | 13 59 | 17 58 | 3 41 | 14 2 | 3 22 | 18 45 | 4 27 | 8 24 | 3 27 | 13 20 | 1 16 | 9 57 | 2 20 | 19 17 | 0 15 | 7 55 | 1 1 | 23 39 | 2 36 | 2 40 | 3 13 | 22 24 | 17 13 | 3 50 |
| T 16 | 13 40 | 12 27 | 2 45 | 14 23 | 3 5 | 18 47 | 4 22 | 8 32 | 3 27 | 13 23 | 1 16 | 9 58 | 2 19 | 19 17 | 0 15 | 7 55 | 1 1 | 23 39 | 2 36 | 2 38 | 3 12 | 22 26 | 17 13 | 3 50 |
| W17 | 13 21 | 6 30 | 1 41 | 14 43 | 2 48 | 18 49 | 4 17 | 8 40 | 3 27 | 13 25 | 1 16 | 10 0 | 2 19 | 19 17 | 0 15 | 7 56 | 1 1 | 23 38 | 2 36 | 2 36 | 3 10 | 22 29 | 17 13 | 3 50 |
| T 18 | 13 2 | 0 26 | 0 34 | 15 2 | 2 31 | 18 50 | 4 12 | 8 47 | 3 28 | 13 28 | 1 16 | 10 1 | 2 19 | 19 17 | 0 15 | 7 57 | 1 1 | 23 38 | 2 36 | 2 35 | 3 9 | 22 31 | 17 13 | 3 51 |
| F 19 | 12 42 | 5s31 | 0s33 | 15 19 | 2 13 | 18 52 | 4 6 | 8 54 | 3 28 | 13 31 | 1 16 | 10 3 | 2 19 | 19 17 | 0 15 | 7 57 | 1 1 | 23 38 | 2 37 | 2 35 | 3 8 | 22 33 | 17 13 | 3 51 |
| S 20 | 12 22 | 11 9 | 1 38 | 15 34 | 1 55 | 18 53 | 4 1 | 9 1 | 3 28 | 13 34 | 1 16 | 10 5 | 2 18 | 19 18 | 0 15 | 7 58 | 1 1 | 23 38 | 2 37 | 2 36 | 3 7 | 22 36 | 17 13 | 3 51 |
| S 21 | 12 2 | 16 17 | 2 37 | 15 46 | 1 37 | 18 53 | 3 56 | 9 8 | 3 28 | 13 37 | 1 16 | 10 6 | 2 18 | 19 18 | 0 15 | 7 58 | 1 1 | 23 38 | 2 37 | 2 37 | 3 5 | 22 38 | 17 13 | 3 52 |
| M22 | 11 42 | 20 46 | 3 29 | 15 56 | 1 19 | 18 54 | 3 50 | 9 14 | 3 29 | 13 39 | 1 16 | 10 8 | 2 18 | 19 18 | 0 15 | 7 59 | 1 1 | 23 38 | 2 37 | 2 37 | 3 4 | 22 40 | 17 13 | 3 52 |
| T 23 | 11 22 | 24 25 | 4 12 | 16 4 | 1 1 | 18 54 | 3 45 | 9 20 | 3 29 | 13 42 | 1 17 | 10 10 | 2 18 | 19 18 | 0 15 | 8 0 | 1 1 | 23 37 | 2 37 | 2 37 | 3 3 | 22 42 | 17 13 | 3 52 |
| W24 | 11 1 | 27 2 | 4 45 | 16 8 | 0 44 | 18 53 | 3 39 | 9 27 | 3 29 | 13 45 | 1 17 | 10 12 | 2 18 | 19 18 | 0 15 | 8 0 | 1 1 | 23 37 | 2 37 | 2 37 | 3 2 | 22 44 | 17 12 | 3 53 |
| T 25 | 10 40 | 28 27 | 5 5 | 16 10 | 0 28 | 18 53 | 3 34 | 9 33 | 3 29 | 13 48 | 1 17 | 10 13 | 2 17 | 19 18 | 0 15 | 8 1 | 1 1 | 23 37 | 2 37 | 2 36 | 3 0 | 22 47 | 17 12 | 3 53 |
| F 26 | 10 19 | 28 30 | 5 12 | 16 9 | 0 12 | 18 52 | 3 28 | 9 38 | 3 29 | 13 51 | 1 17 | 10 15 | 2 17 | 19 18 | 0 15 | 8 2 | 1 1 | 23 37 | 2 37 | 2 35 | 2 59 | 22 49 | 17 12 | 3 54 |
| S 27 | 9 58 | 27 7 | 5 4 | 16 4 | 0n 3 | 18 50 | 3 23 | 9 44 | 3 29 | 13 53 | 1 17 | 10 17 | 2 17 | 19 18 | 0 15 | 8 2 | 1 1 | 23 37 | 2 37 | 2 33 | 2 58 | 22 51 | 17 12 | 3 54 |
| S 28 | 9 37 | 24 18 | 4 41 | 15 57 | 0 17 | 18 49 | 3 17 | 9 49 | 3 29 | 13 56 | 1 17 | 10 19 | 2 17 | 19 18 | 0 15 | 8 3 | 1 1 | 23 37 | 2 38 | 2 31 | 2 57 | 22 53 | 17 12 | 3 54 |
| M29 | 9 16 | 20 11 | 4 3 | 15 46 | 0 30 | 18 46 | 3 11 | 9 54 | 3 29 | 13 59 | 1 17 | 10 21 | 2 17 | 19 18 | 0 15 | 8 3 | 1 1 | 23 36 | 2 38 | 2 29 | 2 55 | 22 56 | 17 11 | 3 55 |
| T 30 | 8 54 | 14 56 | 3 11 | 15 31 | 0 42 | 18 44 | 3 6 | 9 59 | 3 29 | 14 1 | 1 17 | 10 23 | 2 16 | 19 18 | 0 15 | 8 4 | 1 1 | 23 36 | 2 38 | 2 27 | 2 54 | 22 58 | 17 11 | 3 55 |
| W31 | 8n33 | 8s51 | 2s 6 | 15n14 | 0n53 | 18n41 | 3s 0 | 10n 4 | 3s28 | 14s 4 | 1s17 | 10s25 | 2n16 | 19n18 | 0s15 | 8s 5 | 1s 1 | 23n36 | 2n38 | 2n26 | 2n53 | 23s 0 | 17n11 | 3s55 |

Julian Day Number = 2338167.5, Delta T = 18.61 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'26, Lahiri = 19°31'26Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## SEPTEMBER 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 43 8 | 9♍ 4'46 | 26♓25 | 22♌56 | 23♋13 | 5♉37 | 25°R55 | 3♏ 7 | 27°R 6 | 11°R49 | 25♋51 | 6°R 6 | 7♈11 | 25♏56 | 4♊18 | T 1 |
| F 2 | 22 47 5 | 10° 2'58 | 10♈36 | 24°32 | 24° 9 | 5°50 | 25♒48 | 3°12 | 27♉ 6 | 11♓47 | 25°52 | 6°D 5 | 7° 8 | 26° 3 | 4°19 | F 2 |
| S 3 | 22 51 1 | 11° 1'13 | 24°53 | 26°12 | 25° 6 | 6° 2 | 25°40 | 3°17 | 27° 6 | 11°46 | 25°53 | 6♈ 6 | 7° 5 | 26°10 | 4°20 | S 3 |
| S 4 | 22 54 58 | 11°59'29 | 9♉13 | 27°55 | 26° 4 | 6°13 | 25°33 | 3°22 | 27° 6 | 11°44 | 25°54 | 6° 8 | 7° 2 | 26°16 | 4°20 | S 4 |
| M 5 | 22 58 55 | 12°57'48 | 23°31 | 29°41 | 27° 2 | 6°23 | 25°26 | 3°28 | 27° 6 | 11°42 | 25°56 | 6° 9 | 6°59 | 26°23 | 4°20 | M 5 |
| T 6 | 23 2 51 | 13°56'09 | 7♊46 | 1♍28 | 28° 0 | 6°32 | 25°19 | 3°33 | 27° 5 | 11°41 | 25°57 | 6°R10 | 6°55 | 26°30 | 4°21 | T 6 |
| W 7 | 23 6 48 | 14°54'32 | 21°55 | 3°18 | 28°59 | 6°41 | 25°12 | 3°39 | 27° 5 | 11°39 | 25°58 | 6°10 | 6°52 | 26°37 | 4°21 | W 7 |
| T 8 | 23 10 44 | 15°52'57 | 5♋57 | 5° 9 | 29°58 | 6°49 | 25° 5 | 3°44 | 27° 5 | 11°37 | 25°59 | 6° 9 | 6°49 | 26°43 | 4°21 | T 8 |
| F 9 | 23 14 41 | 16°51'24 | 19°48 | 7° 1 | 0♌58 | 6°56 | 24°58 | 3°50 | 27° 4 | 11°36 | 26° 0 | 6° 7 | 6°46 | 26°50 | 4°21 | F 9 |
| S 10 | 23 18 37 | 17°49'53 | 3♌29 | 8°53 | 1°58 | 7° 2 | 24°51 | 3°56 | 27° 4 | 11°34 | 26° 1 | 6° 5 | 6°43 | 26°57 | 4°R21 | S 10 |
| S 11 | 23 22 34 | 18°48'25 | 16°57 | 10°46 | 2°58 | 7° 8 | 24°45 | 4° 1 | 27° 4 | 11°32 | 26° 3 | 6° 2 | 6°40 | 27° 3 | 4°21 | S 11 |
| M12 | 23 26 30 | 19°46'58 | 0♍11 | 12°39 | 3°59 | 7°12 | 24°38 | 4° 7 | 27° 3 | 11°31 | 26° 4 | 6° 0 | 6°36 | 27°10 | 4°21 | M12 |
| T 13 | 23 30 27 | 20°45'34 | 13°11 | 14°32 | 5° 1 | 7°16 | 24°32 | 4°13 | 27° 2 | 11°29 | 26° 5 | 5°58 | 6°33 | 27°17 | 4°21 | T 13 |
| W14 | 23 34 24 | 21°44'11 | 25°56 | 16°25 | 6° 2 | 7°19 | 24°26 | 4°19 | 27° 2 | 11°28 | 26° 6 | 5°57 | 6°30 | 27°23 | 4°21 | W14 |
| T 15 | 23 38 20 | 22°42'51 | 8♎26 | 18°17 | 7° 4 | 7°20 | 24°20 | 4°25 | 27° 1 | 11°26 | 26° 7 | 5°D57 | 6°27 | 27°30 | 4°20 | T 15 |
| F 16 | 23 42 17 | 23°41'32 | 20°44 | 20° 9 | 8° 6 | 7°21 | 24°14 | 4°31 | 27° 0 | 11°24 | 26° 8 | 5°57 | 6°24 | 27°37 | 4°20 | F 16 |
| S 17 | 23 46 13 | 24°40'15 | 2♏50 | 22° 0 | 9° 9 | 7°R22 | 24° 8 | 4°37 | 27° 0 | 11°23 | 26° 9 | 5°58 | 6°20 | 27°43 | 4°19 | S 17 |
| S 18 | 23 50 10 | 25°39'00 | 14°47 | 23°50 | 10°12 | 7°21 | 24° 2 | 4°43 | 26°59 | 11°21 | 26°10 | 5°59 | 6°17 | 27°50 | 4°19 | S 18 |
| M19 | 23 54 6 | 26°37'47 | 26°38 | 25°40 | 11°15 | 7°19 | 23°57 | 4°49 | 26°58 | 11°20 | 26°11 | 6° 0 | 6°14 | 27°57 | 4°18 | M19 |
| T 20 | 23 58 3 | 27°36'35 | 8♐29 | 27°29 | 12°19 | 7°17 | 23°51 | 4°55 | 26°57 | 11°18 | 26°12 | 6° 1 | 6°11 | 28° 4 | 4°18 | T 20 |
| W21 | 0 1 59 | 28°35'26 | 20°22 | 29°16 | 13°22 | 7°13 | 23°46 | 5° 1 | 26°56 | 11°16 | 26°12 | 6° 1 | 6° 8 | 28°10 | 4°17 | W21 |
| T 22 | 0 5 56 | 29°34'18 | 2♑23 | 1♎ 3 | 14°27 | 7° 9 | 23°41 | 5° 8 | 26°55 | 11°15 | 26°13 | 6°R 2 | 6° 5 | 28°17 | 4°16 | T 22 |
| F 23 | 0 9 53 | 0♎33'12 | 14°36 | 2°50 | 15°31 | 7° 4 | 23°36 | 5°14 | 26°54 | 11°13 | 26°14 | 6° 1 | 6° 1 | 28°24 | 4°15 | F 23 |
| S 24 | 0 13 49 | 1°32'08 | 27° 6 | 4°35 | 16°36 | 6°58 | 23°32 | 5°20 | 26°53 | 11°12 | 26°15 | 6° 1 | 5°58 | 28°30 | 4°14 | S 24 |
| S 25 | 0 17 46 | 2°31'05 | 9♒57 | 6°19 | 17°40 | 6°51 | 23°27 | 5°27 | 26°52 | 11°10 | 26°16 | 6° 1 | 5°55 | 28°37 | 4°13 | S 25 |
| M26 | 0 21 42 | 3°30'04 | 23°10 | 8° 3 | 18°46 | 6°43 | 23°23 | 5°33 | 26°51 | 11° 9 | 26°17 | 6° 0 | 5°52 | 28°44 | 4°12 | M26 |
| T 27 | 0 25 39 | 4°29'05 | 6♓47 | 9°45 | 19°51 | 6°34 | 23°19 | 5°40 | 26°50 | 11° 7 | 26°17 | 6° 0 | 5°49 | 28°50 | 4°11 | T 27 |
| W28 | 0 29 35 | 5°28'08 | 20°47 | 11°27 | 20°57 | 6°25 | 23°15 | 5°46 | 26°48 | 11° 6 | 26°18 | 6° 0 | 5°45 | 28°57 | 4°10 | W28 |
| T 29 | 0 33 32 | 6°27'13 | 5♈ 8 | 13° 8 | 22° 3 | 6°15 | 23°11 | 5°53 | 26°47 | 11° 4 | 26°19 | 6° 0 | 5°42 | 29° 4 | 4° 8 | T 29 |
| F 30 | 0 37 28 | 7♎26'20 | 19♈43 | 14♎48 | 23♌ 9 | 6♉ 4 | 23♒ 7 | 5♏59 | 26♉46 | 11♓ 3 | 26♋20 | 6♈ 0 | 5♈39 | 29♏10 | 4♊ 7 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n11 | 2s14 | 0s53 | 14n54 | 1n 3 | 18n37 | 2s54 | 10n 9 | 3s28 | 14s 6 | 1s17 | 10s26 | 2n16 | 19n18 | 0s15 | 8s 5 | 1s 1 | 23n36 | 2n38 | 2n25 | 2n51 | 23s 2 | 17n11 | 3s56 |
| F 2 | 7 49 | 4n35 | 0n25 | 14 30 | 1 13 | 18 33 | 2 48 | 10 13 | 3 28 | 14 9 | 1 17 | 10 28 | 2 16 | 19 18 | 0 15 | 8 6 | 1 1 | 23 36 | 2 38 | 2 25 | 2 50 | 23 4 | 17 10 | 3 56 |
| S 3 | 7 27 | 11 13 | 1 41 | 14 4 | 1 21 | 18 29 | 2 43 | 10 17 | 3 28 | 14 12 | 1 17 | 10 30 | 2 16 | 19 18 | 0 15 | 8 7 | 1 1 | 23 36 | 2 38 | 2 26 | 2 49 | 23 7 | 17 10 | 3 57 |
| S 4 | 7 5 | 17 18 | 2 52 | 13 35 | 1 27 | 18 24 | 2 37 | 10 21 | 3 27 | 14 14 | 1 17 | 10 32 | 2 15 | 19 18 | 0 15 | 8 7 | 1 1 | 23 36 | 2 38 | 2 26 | 2 48 | 23 9 | 17 10 | 3 57 |
| M 5 | 6 42 | 22 26 | 3 52 | 13 4 | 1 33 | 18 19 | 2 31 | 10 25 | 3 27 | 14 16 | 1 17 | 10 34 | 2 15 | 19 18 | 0 15 | 8 8 | 1 1 | 23 36 | 2 38 | 2 27 | 2 46 | 23 11 | 17 10 | 3 57 |
| T 6 | 6 20 | 26 12 | 4 37 | 12 30 | 1 38 | 18 13 | 2 26 | 10 28 | 3 26 | 14 19 | 1 17 | 10 36 | 2 15 | 19 18 | 0 15 | 8 9 | 1 1 | 23 35 | 2 39 | 2 27 | 2 45 | 23 13 | 17 9 | 3 58 |
| W 7 | 5 57 | 28 19 | 5 5 | 11 54 | 1 42 | 18 7 | 2 20 | 10 32 | 3 26 | 14 21 | 1 17 | 10 38 | 2 15 | 19 18 | 0 15 | 8 9 | 1 1 | 23 35 | 2 39 | 2 27 | 2 44 | 23 15 | 17 9 | 3 58 |
| T 8 | 5 35 | 28 35 | 5 15 | 11 16 | 1 45 | 18 0 | 2 14 | 10 35 | 3 25 | 14 24 | 1 17 | 10 40 | 2 15 | 19 18 | 0 15 | 8 10 | 1 1 | 23 35 | 2 39 | 2 27 | 2 43 | 23 17 | 17 9 | 3 59 |
| F 9 | 5 12 | 27 4 | 5 6 | 10 37 | 1 47 | 17 53 | 2 9 | 10 38 | 3 25 | 14 26 | 1 17 | 10 42 | 2 14 | 19 18 | 0 15 | 8 10 | 1 1 | 23 35 | 2 39 | 2 26 | 2 41 | 23 19 | 17 8 | 3 59 |
| S 10 | 4 49 | 23 57 | 4 40 | 9 56 | 1 49 | 17 45 | 2 3 | 10 40 | 3 24 | 14 28 | 1 17 | 10 45 | 2 14 | 19 18 | 0 15 | 8 11 | 1 1 | 23 35 | 2 39 | 2 25 | 2 40 | 23 22 | 17 8 | 3 59 |
| S 11 | 4 26 | 19 34 | 3 58 | 9 13 | 1 49 | 17 37 | 1 57 | 10 43 | 3 23 | 14 30 | 1 17 | 10 47 | 2 14 | 19 18 | 0 15 | 8 12 | 1 1 | 23 35 | 2 39 | 2 24 | 2 39 | 23 24 | 17 7 | 4 0 |
| M12 | 4 3 | 14 19 | 3 5 | 8 30 | 1 49 | 17 29 | 1 52 | 10 45 | 3 23 | 14 32 | 1 17 | 10 49 | 2 14 | 19 18 | 0 15 | 8 12 | 1 1 | 23 35 | 2 39 | 2 23 | 2 38 | 23 26 | 17 7 | 4 0 |
| T 13 | 3 40 | 8 30 | 2 3 | 7 46 | 1 48 | 17 20 | 1 46 | 10 47 | 3 22 | 14 35 | 1 17 | 10 51 | 2 14 | 19 18 | 0 15 | 8 13 | 1 1 | 23 35 | 2 39 | 2 22 | 2 36 | 23 28 | 17 7 | 4 0 |
| W14 | 3 17 | 2 28 | 0 55 | 7 0 | 1 47 | 17 10 | 1 41 | 10 49 | 3 21 | 14 37 | 1 17 | 10 53 | 2 14 | 19 18 | 0 15 | 8 14 | 1 2 | 23 35 | 2 40 | 2 22 | 2 35 | 23 30 | 17 6 | 4 1 |
| T 15 | 2 54 | 3s34 | 0s14 | 6 15 | 1 45 | 17 0 | 1 35 | 10 50 | 3 20 | 14 39 | 1 17 | 10 55 | 2 13 | 19 17 | 0 15 | 8 14 | 1 2 | 23 35 | 2 40 | 2 22 | 2 34 | 23 32 | 17 6 | 4 1 |
| F 16 | 2 31 | 9 21 | 1 21 | 5 28 | 1 42 | 16 50 | 1 30 | 10 51 | 3 19 | 14 40 | 1 17 | 10 57 | 2 13 | 19 17 | 0 15 | 8 15 | 1 2 | 23 35 | 2 40 | 2 22 | 2 33 | 23 34 | 17 5 | 4 2 |
| S 17 | 2 7 | 14 43 | 2 23 | 4 42 | 1 39 | 16 39 | 1 24 | 10 52 | 3 18 | 14 42 | 1 17 | 10 59 | 2 13 | 19 17 | 0 15 | 8 15 | 1 2 | 23 34 | 2 40 | 2 23 | 2 31 | 23 36 | 17 5 | 4 2 |
| S 18 | 1 44 | 19 28 | 3 19 | 3 55 | 1 35 | 16 27 | 1 19 | 10 53 | 3 17 | 14 44 | 1 17 | 11 2 | 2 13 | 19 17 | 0 15 | 8 16 | 1 2 | 23 34 | 2 40 | 2 23 | 2 30 | 23 38 | 17 4 | 4 2 |
| M19 | 1 21 | 23 25 | 4 5 | 3 7 | 1 31 | 16 15 | 1 14 | 10 54 | 3 15 | 14 46 | 1 17 | 11 4 | 2 13 | 19 17 | 0 15 | 8 17 | 1 2 | 23 34 | 2 40 | 2 23 | 2 29 | 23 40 | 17 4 | 4 3 |
| T 20 | 0 57 | 26 23 | 4 41 | 2 20 | 1 27 | 16 3 | 1 8 | 10 54 | 3 14 | 14 48 | 1 16 | 11 6 | 2 13 | 19 16 | 0 15 | 8 17 | 1 2 | 23 34 | 2 40 | 2 24 | 2 28 | 23 43 | 17 3 | 4 3 |
| W21 | 0 34 | 28 12 | 5 5 | 1 33 | 1 22 | 15 50 | 1 3 | 10 55 | 3 13 | 14 49 | 1 16 | 11 8 | 2 13 | 19 16 | 0 15 | 8 18 | 1 2 | 23 34 | 2 40 | 2 24 | 2 26 | 23 45 | 17 3 | 4 3 |
| T 22 | 0 10 | 28 44 | 5 16 | 0 46 | 1 17 | 15 36 | 0 58 | 10 55 | 3 11 | 14 51 | 1 16 | 11 10 | 2 12 | 19 16 | 0 15 | 8 18 | 1 2 | 23 34 | 2 41 | 2 24 | 2 25 | 23 47 | 17 2 | 4 4 |
| F 23 | 0s13 | 27 52 | 5 14 | 0s 2 | 1 12 | 15 22 | 0 53 | 10 54 | 3 10 | 14 52 | 1 16 | 11 13 | 2 12 | 19 16 | 0 15 | 8 19 | 1 2 | 23 34 | 2 41 | 2 24 | 2 24 | 23 49 | 17 2 | 4 4 |
| S 24 | 0 37 | 25 37 | 4 56 | 0 48 | 1 6 | 15 8 | 0 48 | 10 54 | 3 8 | 14 54 | 1 16 | 11 15 | 2 12 | 19 16 | 0 15 | 8 20 | 1 1 | 23 34 | 2 41 | 2 24 | 2 23 | 23 51 | 17 1 | 4 5 |
| S 25 | 1 0 | 22 1 | 4 23 | 1 35 | 1 1 | 14 53 | 0 43 | 10 53 | 3 6 | 14 55 | 1 16 | 11 17 | 2 12 | 19 15 | 0 15 | 8 20 | 1 1 | 23 34 | 2 41 | 2 23 | 2 21 | 23 53 | 17 1 | 4 5 |
| M26 | 1 24 | 17 13 | 3 36 | 2 21 | 0 55 | 14 38 | 0 38 | 10 53 | 3 4 | 14 57 | 1 16 | 11 19 | 2 12 | 19 15 | 0 15 | 8 21 | 1 1 | 23 34 | 2 41 | 2 23 | 2 20 | 23 55 | 17 0 | 4 5 |
| T 27 | 1 47 | 11 26 | 2 35 | 3 8 | 0 49 | 14 22 | 0 33 | 10 52 | 3 3 | 14 58 | 1 16 | 11 22 | 2 12 | 19 15 | 0 15 | 8 21 | 1 1 | 23 34 | 2 41 | 2 23 | 2 19 | 23 57 | 17 0 | 4 6 |
| W28 | 2 11 | 4 56 | 1 23 | 3 53 | 0 42 | 14 6 | 0 28 | 10 50 | 3 1 | 14 59 | 1 16 | 11 24 | 2 12 | 19 14 | 0 15 | 8 22 | 1 1 | 23 34 | 2 41 | 2 23 | 2 17 | 23 59 | 16 59 | 4 6 |
| T 29 | 2 34 | 1n58 | 0 5 | 4 39 | 0 36 | 13 50 | 0 23 | 10 49 | 2 59 | 15 0 | 1 16 | 11 26 | 2 12 | 19 14 | 0 15 | 8 22 | 1 1 | 23 34 | 2 41 | 2 23 | 2 16 | 24 1 | 16 58 | 4 6 |
| F 30 | 2s57 | 8n54 | 1n15 | 5s23 | 0n29 | 13n32 | 0s18 | 10n47 | 2s56 | 15s 1 | 1s16 | 11s28 | 2n11 | 19n14 | 0s15 | 8s23 | 1s 1 | 23n34 | 2n42 | 2n23 | 2n15 | 24s 3 | 16n58 | 4s 7 |

Julian Day Number = 2338198.5, Delta T = 18.57 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'30, Lahiri = 19°31'31Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## OCTOBER 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 41 25 | 8♎25'29 | 4♉28 | 16♎27 | 24♌15 | 5°R52 | 23°R 4 | 6♏ 6 | 26°R44 | 11°R 1 | 26♋20 | 6°R 0 | 5♈36 | 29♏17 | 4°R 6 | S 1 |
| S 2 | 0 45 22 | 9°24'40 | 19°15 | 18° 5 | 25°22 | 5♉39 | 23♒ 0 | 6°13 | 26♉43 | 11♓ 0 | 26°21 | 5♈59 | 5°33 | 29°24 | 4♊ 4 | S 2 |
| M 3 | 0 49 18 | 10°23'53 | 3♊56 | 19°43 | 26°29 | 5°26 | 22°57 | 6°19 | 26°41 | 10°59 | 26°22 | 5°59 | 5°30 | 29°31 | 4° 3 | M 3 |
| T 4 | 0 53 15 | 11°23'09 | 18°27 | 21°20 | 27°36 | 5°11 | 22°54 | 6°26 | 26°40 | 10°57 | 26°22 | 5°59 | 5°26 | 29°37 | 4° 1 | T 4 |
| W 5 | 0 57 11 | 12°22'28 | 2♋43 | 22°56 | 28°43 | 4°57 | 22°52 | 6°33 | 26°38 | 10°56 | 26°23 | 5°58 | 5°23 | 29°44 | 3°59 | W 5 |
| T 6 | 1 1 8 | 13°21'49 | 16°42 | 24°31 | 29°51 | 4°41 | 22°49 | 6°40 | 26°37 | 10°55 | 26°23 | 5°D58 | 5°20 | 29°51 | 3°58 | T 6 |
| F 7 | 1 5 4 | 14°21'12 | 0♌23 | 26° 6 | 0♍58 | 4°25 | 22°47 | 6°46 | 26°35 | 10°53 | 26°24 | 5°58 | 5°17 | 29°57 | 3°56 | F 7 |
| S 8 | 1 9 1 | 15°20'37 | 13°46 | 27°40 | 2° 6 | 4° 8 | 22°45 | 6°53 | 26°33 | 10°52 | 26°24 | 5°59 | 5°14 | 0♐ 4 | 3°54 | S 8 |
| S 9 | 1 12 57 | 16°20'05 | 26°53 | 29°13 | 3°14 | 3°51 | 22°43 | 7° 0 | 26°32 | 10°51 | 26°25 | 6° 0 | 5°11 | 0°11 | 3°52 | S 9 |
| M10 | 1 16 54 | 17°19'34 | 9♍44 | 0♏46 | 4°23 | 3°33 | 22°41 | 7° 7 | 26°30 | 10°49 | 26°25 | 6° 1 | 5° 7 | 0°17 | 3°50 | M10 |
| T 11 | 1 20 51 | 18°19'06 | 22°22 | 2°18 | 5°31 | 3°14 | 22°40 | 7°14 | 26°28 | 10°48 | 26°26 | 6° 2 | 5° 4 | 0°24 | 3°48 | T 11 |
| W12 | 1 24 47 | 19°18'40 | 4♎49 | 3°49 | 6°40 | 2°56 | 22°38 | 7°21 | 26°26 | 10°47 | 26°26 | 6°R 2 | 5° 1 | 0°31 | 3°46 | W12 |
| T 13 | 1 28 44 | 20°18'17 | 17° 5 | 5°20 | 7°49 | 2°36 | 22°37 | 7°28 | 26°24 | 10°46 | 26°26 | 6° 2 | 4°58 | 0°38 | 3°44 | T 13 |
| F 14 | 1 32 40 | 21°17'55 | 29°11 | 6°50 | 8°58 | 2°17 | 22°36 | 7°35 | 26°22 | 10°45 | 26°27 | 6° 1 | 4°55 | 0°44 | 3°41 | F 14 |
| S 15 | 1 36 37 | 22°17'35 | 11♏11 | 8°19 | 10° 7 | 1°57 | 22°35 | 7°42 | 26°21 | 10°44 | 26°27 | 5°59 | 4°51 | 0°51 | 3°39 | S 15 |
| S 16 | 1 40 33 | 23°17'18 | 23° 5 | 9°48 | 11°16 | 1°37 | 22°35 | 7°49 | 26°19 | 10°42 | 26°27 | 5°56 | 4°48 | 0°58 | 3°37 | S 16 |
| M17 | 1 44 30 | 24°17'02 | 4♐55 | 11°16 | 12°26 | 1°17 | 22°35 | 7°56 | 26°17 | 10°41 | 26°28 | 5°53 | 4°45 | 1° 4 | 3°34 | M17 |
| T 18 | 1 48 26 | 25°16'48 | 16°45 | 12°43 | 13°35 | 0°56 | 22°D35 | 8° 3 | 26°15 | 10°40 | 26°28 | 5°50 | 4°42 | 1°11 | 3°32 | T 18 |
| W19 | 1 52 23 | 26°16'36 | 28°38 | 14°10 | 14°45 | 0°36 | 22°35 | 8°10 | 26°12 | 10°39 | 26°28 | 5°47 | 4°39 | 1°18 | 3°29 | W19 |
| T 20 | 1 56 20 | 27°16'26 | 10♑37 | 15°36 | 15°55 | 0°15 | 22°35 | 8°17 | 26°10 | 10°38 | 26°28 | 5°45 | 4°36 | 1°24 | 3°27 | T 20 |
| F 21 | 2 0 16 | 28°16'17 | 22°47 | 17° 1 | 17° 5 | 29♈55 | 22°35 | 8°24 | 26° 8 | 10°37 | 26°29 | 5°D44 | 4°32 | 1°31 | 3°24 | F 21 |
| S 22 | 2 4 13 | 29°16'10 | 5♒12 | 18°25 | 18°15 | 29°34 | 22°36 | 8°31 | 26° 6 | 10°36 | 26°29 | 5°44 | 4°29 | 1°38 | 3°22 | S 22 |
| S 23 | 2 8 9 | 0♏16'05 | 17°56 | 19°49 | 19°26 | 29°14 | 22°37 | 8°39 | 26° 4 | 10°35 | 26°29 | 5°45 | 4°26 | 1°45 | 3°19 | S 23 |
| M24 | 2 12 6 | 1°16'01 | 1♓ 4 | 21°12 | 20°36 | 28°54 | 22°38 | 8°46 | 26° 2 | 10°34 | 26°29 | 5°47 | 4°23 | 1°51 | 3°16 | M24 |
| T 25 | 2 16 2 | 2°15'59 | 14°38 | 22°34 | 21°47 | 28°34 | 22°40 | 8°53 | 25°59 | 10°33 | 26°29 | 5°48 | 4°20 | 1°58 | 3°13 | T 25 |
| W26 | 2 19 59 | 3°15'58 | 28°40 | 23°54 | 22°58 | 28°14 | 22°41 | 9° 0 | 25°57 | 10°33 | 26°29 | 5°R50 | 4°17 | 2° 5 | 3°11 | W26 |
| T 27 | 2 23 55 | 4°16'00 | 13♈ 8 | 25°14 | 24° 9 | 27°55 | 22°43 | 9° 7 | 25°55 | 10°32 | 26°R29 | 5°49 | 4°13 | 2°11 | 3° 8 | T 27 |
| F 28 | 2 27 52 | 5°16'03 | 27°58 | 26°33 | 25°20 | 27°36 | 22°45 | 9°14 | 25°53 | 10°31 | 26°29 | 5°48 | 4°10 | 2°18 | 3° 5 | F 28 |
| S 29 | 2 31 48 | 6°16'08 | 13♉ 3 | 27°50 | 26°31 | 27°17 | 22°47 | 9°22 | 25°50 | 10°30 | 26°29 | 5°45 | 4° 7 | 2°25 | 3° 2 | S 29 |
| S 30 | 2 35 45 | 7°16'14 | 28°14 | 29° 6 | 27°42 | 26°59 | 22°49 | 9°29 | 25°48 | 10°30 | 26°29 | 5°41 | 4° 4 | 2°31 | 2°59 | S 30 |
| M31 | 2 39 42 | 8♏16'23 | 13♊20 | 0♐21 | 28♍53 | 26♈42 | 22♒52 | 9♏36 | 25♉46 | 10♓29 | 26♋29 | 5♈36 | 4♈ 1 | 2♐38 | 2♊56 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 3s21 | 15n25 | 2n32 | 6s 8 | 0n23 | 13n15 | 0s13 | 10n46 | 2s54 | 15s 3 | 1s15 | 11s31 | 2n11 | 19n13 | 0s15 | 8s24 | 1s 1 | 23n34 | 2n42 | 2n23 | 2n14 | 24s 5 | 16n57 | 4s 7 | S 1 |
| S 2 | 3 44 | 21 3 | 3 38 | 6 52 | 0 16 | 12 57 | 0 9 | 10 44 | 2 52 | 15 3 | 1 15 | 11 33 | 2 11 | 19 13 | 0 15 | 8 24 | 1 1 | 23 34 | 2 42 | 2 23 | 2 12 | 24 7 | 16 57 | 4 8 | S 2 |
| M 3 | 4 7 | 25 23 | 4 29 | 7 35 | 0 9 | 12 39 | 0 4 | 10 41 | 2 49 | 15 4 | 1 15 | 11 35 | 2 11 | 19 13 | 0 15 | 8 25 | 1 1 | 23 34 | 2 42 | 2 23 | 2 11 | 24 9 | 16 56 | 4 8 | M 3 |
| T 4 | 4 31 | 28 0 | 5 2 | 8 18 | 0 2 | 12 20 | 0n 0 | 10 39 | 2 47 | 15 5 | 1 15 | 11 38 | 2 11 | 19 12 | 0 15 | 8 25 | 1 1 | 23 34 | 2 42 | 2 23 | 2 10 | 24 11 | 16 55 | 4 8 | T 4 |
| W 5 | 4 54 | 28 44 | 5 17 | 9 0 | 0s 5 | 12 1 | 0 5 | 10 37 | 2 44 | 15 6 | 1 15 | 11 40 | 2 11 | 19 12 | 0 15 | 8 26 | 1 1 | 23 34 | 2 42 | 2 22 | 2 9 | 24 13 | 16 55 | 4 9 | W 5 |
| T 6 | 5 17 | 27 35 | 5 12 | 9 42 | 0 12 | 11 41 | 0 9 | 10 34 | 2 42 | 15 7 | 1 15 | 11 42 | 2 11 | 19 12 | 0 15 | 8 26 | 1 1 | 23 34 | 2 42 | 2 22 | 2 7 | 24 15 | 16 54 | 4 9 | T 6 |
| F 7 | 5 40 | 24 48 | 4 49 | 10 23 | 0 19 | 11 21 | 0 13 | 10 31 | 2 39 | 15 7 | 1 15 | 11 45 | 2 11 | 19 11 | 0 15 | 8 27 | 1 1 | 23 34 | 2 42 | 2 23 | 2 6 | 24 17 | 16 53 | 4 9 | F 7 |
| S 8 | 6 3 | 20 43 | 4 11 | 11 4 | 0 26 | 11 1 | 0 18 | 10 28 | 2 36 | 15 8 | 1 15 | 11 47 | 2 11 | 19 11 | 0 15 | 8 27 | 1 1 | 23 34 | 2 43 | 2 23 | 2 5 | 24 19 | 16 53 | 4 10 | S 8 |
| S 9 | 6 26 | 15 43 | 3 20 | 11 44 | 0 33 | 10 40 | 0 22 | 10 25 | 2 33 | 15 8 | 1 14 | 11 49 | 2 10 | 19 11 | 0 15 | 8 28 | 1 1 | 23 34 | 2 43 | 2 23 | 2 4 | 24 21 | 16 52 | 4 10 | S 9 |
| M10 | 6 49 | 10 6 | 2 21 | 12 23 | 0 40 | 10 19 | 0 26 | 10 22 | 2 30 | 15 9 | 1 14 | 11 52 | 2 10 | 19 10 | 0 15 | 8 28 | 1 1 | 23 34 | 2 43 | 2 24 | 2 2 | 24 23 | 16 51 | 4 10 | M10 |
| T 11 | 7 12 | 4 11 | 1 15 | 13 1 | 0 46 | 9 58 | 0 30 | 10 19 | 2 27 | 15 9 | 1 14 | 11 54 | 2 10 | 19 10 | 0 15 | 8 28 | 1 1 | 23 34 | 2 43 | 2 24 | 2 1 | 24 25 | 16 51 | 4 11 | T 11 |
| W12 | 7 34 | 1s49 | 0 7 | 13 39 | 0 53 | 9 36 | 0 34 | 10 15 | 2 24 | 15 10 | 1 14 | 11 56 | 2 10 | 19 9 | 0 15 | 8 29 | 1 1 | 23 34 | 2 43 | 2 24 | 2 0 | 24 27 | 16 50 | 4 11 | W12 |
| T 13 | 7 57 | 7 39 | 1s 1 | 14 16 | 1 0 | 9 14 | 0 37 | 10 12 | 2 21 | 15 10 | 1 14 | 11 59 | 2 10 | 19 9 | 0 15 | 8 29 | 1 1 | 23 34 | 2 43 | 2 24 | 1 59 | 24 28 | 16 49 | 4 11 | T 13 |
| F 14 | 8 19 | 13 9 | 2 5 | 14 52 | 1 7 | 8 52 | 0 41 | 10 8 | 2 18 | 15 10 | 1 14 | 12 1 | 2 10 | 19 8 | 0 15 | 8 30 | 1 1 | 23 35 | 2 43 | 2 24 | 1 57 | 24 30 | 16 48 | 4 12 | F 14 |
| S 15 | 8 42 | 18 6 | 3 2 | 15 28 | 1 13 | 8 29 | 0 45 | 10 4 | 2 14 | 15 10 | 1 14 | 12 3 | 2 10 | 19 8 | 0 15 | 8 30 | 1 1 | 23 35 | 2 44 | 2 23 | 1 56 | 24 32 | 16 48 | 4 12 | S 15 |
| S 16 | 9 4 | 22 18 | 3 51 | 16 2 | 1 20 | 8 6 | 0 48 | 10 1 | 2 11 | 15 10 | 1 13 | 12 5 | 2 10 | 19 7 | 0 15 | 8 31 | 1 1 | 23 35 | 2 44 | 2 22 | 1 55 | 24 34 | 16 47 | 4 12 | S 16 |
| M17 | 9 26 | 25 35 | 4 30 | 16 36 | 1 26 | 7 42 | 0 52 | 9 57 | 2 7 | 15 10 | 1 13 | 12 8 | 2 10 | 19 7 | 0 15 | 8 31 | 1 1 | 23 35 | 2 44 | 2 21 | 1 53 | 24 36 | 16 46 | 4 13 | M17 |
| T 18 | 9 48 | 27 45 | 4 58 | 17 9 | 1 33 | 7 19 | 0 55 | 9 53 | 2 4 | 15 10 | 1 13 | 12 10 | 2 10 | 19 7 | 0 15 | 8 31 | 1 1 | 23 35 | 2 44 | 2 19 | 1 52 | 24 38 | 16 46 | 4 13 | T 18 |
| W19 | 10 10 | 28 41 | 5 12 | 17 41 | 1 39 | 6 55 | 0 59 | 9 49 | 2 0 | 15 10 | 1 13 | 12 12 | 2 10 | 19 6 | 0 15 | 8 32 | 1 1 | 23 35 | 2 44 | 2 18 | 1 51 | 24 40 | 16 45 | 4 13 | W19 |
| T 20 | 10 31 | 28 16 | 5 14 | 18 12 | 1 45 | 6 31 | 1 2 | 9 46 | 1 57 | 15 9 | 1 13 | 12 15 | 2 10 | 19 6 | 0 15 | 8 32 | 1 1 | 23 35 | 2 44 | 2 17 | 1 50 | 24 42 | 16 44 | 4 13 | T 20 |
| F 21 | 10 53 | 26 30 | 5 1 | 18 43 | 1 51 | 6 6 | 1 5 | 9 42 | 1 53 | 15 9 | 1 13 | 12 17 | 2 10 | 19 5 | 0 15 | 8 33 | 1 1 | 23 35 | 2 44 | 2 17 | 1 48 | 24 44 | 16 43 | 4 14 | F 21 |
| S 22 | 11 14 | 23 26 | 4 34 | 19 12 | 1 56 | 5 42 | 1 8 | 9 38 | 1 49 | 15 9 | 1 12 | 12 19 | 2 10 | 19 5 | 0 15 | 8 33 | 1 1 | 23 35 | 2 45 | 2 17 | 1 47 | 24 45 | 16 42 | 4 14 | S 22 |
| S 23 | 11 35 | 19 11 | 3 53 | 19 40 | 2 2 | 5 17 | 1 11 | 9 34 | 1 46 | 15 8 | 1 12 | 12 22 | 2 9 | 19 4 | 0 15 | 8 33 | 1 1 | 23 35 | 2 45 | 2 17 | 1 46 | 24 47 | 16 42 | 4 14 | S 23 |
| M24 | 11 56 | 13 54 | 2 59 | 20 8 | 2 7 | 4 52 | 1 14 | 9 31 | 1 42 | 15 8 | 1 12 | 12 24 | 2 9 | 19 4 | 0 15 | 8 34 | 1 1 | 23 35 | 2 45 | 2 18 | 1 45 | 24 49 | 16 41 | 4 15 | M24 |
| T 25 | 12 17 | 7 48 | 1 54 | 20 34 | 2 12 | 4 26 | 1 16 | 9 27 | 1 38 | 15 7 | 1 12 | 12 26 | 2 9 | 19 3 | 0 15 | 8 34 | 1 1 | 23 36 | 2 45 | 2 19 | 1 43 | 24 51 | 16 40 | 4 15 | T 25 |
| W26 | 12 38 | 1 8 | 0 39 | 20 59 | 2 17 | 4 1 | 1 19 | 9 24 | 1 34 | 15 7 | 1 12 | 12 29 | 2 9 | 19 2 | 0 15 | 8 34 | 1 1 | 23 36 | 2 45 | 2 19 | 1 42 | 24 53 | 16 39 | 4 15 | W26 |
| T 27 | 12 58 | 5n48 | 0n40 | 21 23 | 2 21 | 3 35 | 1 22 | 9 21 | 1 30 | 15 6 | 1 12 | 12 31 | 2 9 | 19 2 | 0 15 | 8 34 | 1 1 | 23 36 | 2 45 | 2 19 | 1 41 | 24 55 | 16 38 | 4 15 | T 27 |
| F 28 | 13 18 | 12 37 | 1 58 | 21 46 | 2 25 | 3 9 | 1 24 | 9 17 | 1 27 | 15 5 | 1 12 | 12 33 | 2 9 | 19 1 | 0 15 | 8 35 | 1 1 | 23 36 | 2 45 | 2 18 | 1 40 | 24 57 | 16 38 | 4 16 | F 28 |
| S 29 | 13 38 | 18 48 | 3 10 | 22 8 | 2 29 | 2 43 | 1 27 | 9 14 | 1 23 | 15 4 | 1 11 | 12 36 | 2 9 | 19 1 | 0 15 | 8 35 | 1 1 | 23 36 | 2 46 | 2 17 | 1 38 | 24 58 | 16 37 | 4 16 | S 29 |
| S 30 | 13 58 | 23 50 | 4 8 | 22 28 | 2 32 | 2 16 | 1 29 | 9 11 | 1 19 | 15 3 | 1 11 | 12 38 | 2 9 | 19 0 | 0 15 | 8 35 | 1 1 | 23 36 | 2 46 | 2 16 | 1 37 | 25 0 | 16 36 | 4 16 | S 30 |
| M31 | 14s17 | 27n13 | 4n49 | 22s47 | 2s35 | 1n50 | 1n31 | 9n 8 | 1s15 | 15s 2 | 1s11 | 12s40 | 2n 9 | 19n 0 | 0s15 | 8s36 | 1s 1 | 23n36 | 2n46 | 2n14 | 1n36 | 25s 2 | 16n35 | 4s16 | M31 |

Julian Day Number = 2338228.5, Delta T = 18.53 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'34, Lahiri = 19°31'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## NOVEMBER 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 43 38 | 9♏16'34 | 28♊13 | 1♐34 | 0♎ 5 | 26°R24 | 22♒54 | 9♏43 | 25°R43 | 10°R28 | 26°R29 | 5°R32 | 3♈57 | 2♐45 | 2°R53 | T 1 |
| W 2 | 2 47 35 | 10°16'47 | 12♋45 | 2°45 | 1°16 | 26♈ 8 | 22°57 | 9°50 | 25♉41 | 10♓27 | 26♋29 | 5♈28 | 3°54 | 2°52 | 2♊50 | W 2 |
| T 3 | 2 51 31 | 11°17'02 | 26°53 | 3°54 | 2°28 | 25°52 | 23° 0 | 9°58 | 25°39 | 10°27 | 26°28 | 5°25 | 3°51 | 2°58 | 2°47 | T 3 |
| F 4 | 2 55 28 | 12°17'19 | 10♌35 | 5° 0 | 3°40 | 25°36 | 23° 4 | 10° 5 | 25°36 | 10°26 | 26°28 | 5°D24 | 3°48 | 3° 5 | 2°43 | F 4 |
| S 5 | 2 59 24 | 13°17'38 | 23°53 | 6° 4 | 4°52 | 25°22 | 23° 7 | 10°12 | 25°34 | 10°26 | 26°28 | 5°25 | 3°45 | 3°12 | 2°40 | S 5 |
| S 6 | 3 3 21 | 14°17'59 | 6♍48 | 7° 5 | 6° 4 | 25° 8 | 23°11 | 10°19 | 25°31 | 10°25 | 26°28 | 5°26 | 3°42 | 3°18 | 2°37 | S 6 |
| M 7 | 3 7 18 | 15°18'22 | 19°26 | 8° 3 | 7°16 | 24°54 | 23°15 | 10°26 | 25°29 | 10°25 | 26°28 | 5°28 | 3°38 | 3°25 | 2°34 | M 7 |
| T 8 | 3 11 14 | 16°18'47 | 1♎48 | 8°57 | 8°28 | 24°41 | 23°19 | 10°34 | 25°26 | 10°24 | 26°27 | 5°R29 | 3°35 | 3°32 | 2°30 | T 8 |
| W 9 | 3 15 11 | 17°19'14 | 14° 0 | 9°47 | 9°41 | 24°29 | 23°23 | 10°41 | 25°24 | 10°24 | 26°27 | 5°28 | 3°32 | 3°38 | 2°27 | W 9 |
| T 10 | 3 19 7 | 18°19'42 | 26° 3 | 10°32 | 10°53 | 24°18 | 23°27 | 10°48 | 25°21 | 10°23 | 26°27 | 5°26 | 3°29 | 3°45 | 2°24 | T 10 |
| F 11 | 3 23 4 | 19°20'12 | 8♏ 0 | 11°12 | 12° 6 | 24° 8 | 23°32 | 10°55 | 25°19 | 10°23 | 26°26 | 5°21 | 3°26 | 3°52 | 2°20 | F 11 |
| S 12 | 3 27 0 | 20°20'44 | 19°53 | 11°46 | 13°18 | 23°58 | 23°37 | 11° 2 | 25°16 | 10°23 | 26°26 | 5°15 | 3°23 | 3°59 | 2°17 | S 12 |
| S 13 | 3 30 57 | 21°21'18 | 1♐45 | 12°13 | 14°31 | 23°49 | 23°42 | 11° 9 | 25°14 | 10°23 | 26°25 | 5° 6 | 3°19 | 4° 5 | 2°14 | S 13 |
| M14 | 3 34 53 | 22°21'53 | 13°35 | 12°33 | 15°44 | 23°41 | 23°47 | 11°16 | 25°11 | 10°22 | 26°25 | 4°57 | 3°16 | 4°12 | 2°10 | M14 |
| T 15 | 3 38 50 | 23°22'29 | 25°27 | 12°45 | 16°56 | 23°34 | 23°52 | 11°24 | 25° 9 | 10°22 | 26°24 | 4°47 | 3°13 | 4°19 | 2° 7 | T 15 |
| W16 | 3 42 47 | 24°23'07 | 7♑22 | 12°R48 | 18° 9 | 23°28 | 23°58 | 11°31 | 25° 6 | 10°22 | 26°24 | 4°38 | 3°10 | 4°25 | 2° 3 | W16 |
| T 17 | 3 46 43 | 25°23'46 | 19°23 | 12°42 | 19°22 | 23°22 | 24° 3 | 11°38 | 25° 4 | 10°22 | 26°23 | 4°30 | 3° 7 | 4°32 | 2° 0 | T 17 |
| F 18 | 3 50 40 | 26°24'26 | 1♒32 | 12°25 | 20°35 | 23°17 | 24° 9 | 11°45 | 25° 1 | 10°22 | 26°23 | 4°25 | 3° 3 | 4°39 | 1°56 | F 18 |
| S 19 | 3 54 36 | 27°25'08 | 13°54 | 11°58 | 21°49 | 23°14 | 24°15 | 11°52 | 24°59 | 10°21 | 26°22 | 4°22 | 3° 0 | 4°46 | 1°53 | S 19 |
| S 20 | 3 58 33 | 28°25'50 | 26°32 | 11°20 | 23° 2 | 23°10 | 24°22 | 11°59 | 24°56 | 10°21 | 26°22 | 4°D20 | 2°57 | 4°52 | 1°49 | S 20 |
| M21 | 4 2 29 | 29°26'34 | 9♓31 | 10°31 | 24°15 | 23° 8 | 24°28 | 12° 6 | 24°54 | 10°D21 | 26°21 | 4°21 | 2°54 | 4°59 | 1°46 | M21 |
| T 22 | 4 6 26 | 0♐27'18 | 22°55 | 9°32 | 25°28 | 23° 7 | 24°35 | 12°13 | 24°51 | 10°21 | 26°21 | 4°22 | 2°51 | 5° 6 | 1°42 | T 22 |
| W23 | 4 10 22 | 1°28'04 | 6♈46 | 8°24 | 26°42 | 23°D 6 | 24°41 | 12°20 | 24°49 | 10°21 | 26°20 | 4°R22 | 2°48 | 5°12 | 1°39 | W23 |
| T 24 | 4 14 19 | 2°28'50 | 21° 6 | 7° 9 | 27°55 | 23° 6 | 24°48 | 12°27 | 24°46 | 10°22 | 26°19 | 4°21 | 2°44 | 5°19 | 1°35 | T 24 |
| F 25 | 4 18 16 | 3°29'38 | 5♉53 | 5°49 | 29° 9 | 23° 7 | 24°55 | 12°34 | 24°44 | 10°22 | 26°18 | 4°17 | 2°41 | 5°26 | 1°32 | F 25 |
| S 26 | 4 22 12 | 4°30'27 | 21° 1 | 4°27 | 0♏22 | 23° 9 | 25° 2 | 12°40 | 24°41 | 10°22 | 26°18 | 4°11 | 2°38 | 5°33 | 1°28 | S 26 |
| S 27 | 4 26 9 | 5°31'16 | 6♊20 | 3° 5 | 1°36 | 23°12 | 25°10 | 12°47 | 24°39 | 10°22 | 26°17 | 4° 3 | 2°35 | 5°39 | 1°25 | S 27 |
| M28 | 4 30 5 | 6°32'07 | 21°41 | 1°45 | 2°49 | 23°15 | 25°17 | 12°54 | 24°36 | 10°22 | 26°16 | 3°53 | 2°32 | 5°46 | 1°21 | M28 |
| T 29 | 4 34 2 | 7°33'00 | 6♋51 | 0°32 | 4° 3 | 23°19 | 25°25 | 13° 1 | 24°34 | 10°23 | 26°15 | 3°43 | 2°29 | 5°53 | 1°18 | T 29 |
| W30 | 4 37 58 | 8♐33'53 | 21♋41 | 29♏26 | 5♏17 | 23♈24 | 25♒33 | 13♏ 8 | 24♉31 | 10♓23 | 26♋15 | 3♈35 | 2♈25 | 5♐59 | 1♊14 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s37 | 28n37 | 5n 9 | 23s 5 | 2s38 | 1n23 | 1n33 | 9n 6 | 1s11 | 15s 1 | 1s11 | 12s43 | 2n 9 | 18n59 | 0s15 | 8s36 | 1s 1 | 23n37 | 2n46 | 2n12 | 1n35 | 25s 4 | 16n34 | 4s17 |
| W 2 | 14 56 | 28 0 | 5 9 | 23 22 | 2 40 | 0 57 | 1 35 | 9 3 | 1 8 | 15 0 | 1 11 | 12 45 | 2 9 | 18 59 | 0 15 | 8 36 | 1 1 | 23 37 | 2 46 | 2 10 | 1 33 | 25 6 | 16 34 | 4 17 |
| T 3 | 15 15 | 25 34 | 4 50 | 23 37 | 2 42 | 0 30 | 1 37 | 9 1 | 1 4 | 14 59 | 1 11 | 12 47 | 2 9 | 18 58 | 0 15 | 8 36 | 1 1 | 23 37 | 2 46 | 2 9 | 1 32 | 25 7 | 16 33 | 4 17 |
| F 4 | 15 33 | 21 42 | 4 15 | 23 51 | 2 43 | 0 3 | 1 39 | 8 59 | 1 0 | 14 58 | 1 10 | 12 49 | 2 9 | 18 58 | 0 15 | 8 36 | 1 1 | 23 37 | 2 46 | 2 9 | 1 31 | 25 9 | 16 32 | 4 17 |
| S 5 | 15 51 | 16 50 | 3 27 | 24 3 | 2 44 | 0s24 | 1 41 | 8 57 | 0 57 | 14 56 | 1 10 | 12 52 | 2 9 | 18 57 | 0 15 | 8 37 | 1 1 | 23 37 | 2 47 | 2 9 | 1 30 | 25 11 | 16 31 | 4 18 |
| S 6 | 16 9 | 11 21 | 2 30 | 24 13 | 2 43 | 0 51 | 1 42 | 8 55 | 0 53 | 14 55 | 1 10 | 12 54 | 2 9 | 18 56 | 0 15 | 8 37 | 1 1 | 23 37 | 2 47 | 2 10 | 1 28 | 25 13 | 16 30 | 4 18 |
| M 7 | 16 27 | 5 31 | 1 26 | 24 22 | 2 43 | 1 18 | 1 44 | 8 54 | 0 49 | 14 54 | 1 10 | 12 56 | 2 9 | 18 56 | 0 15 | 8 37 | 1 1 | 23 38 | 2 47 | 2 10 | 1 27 | 25 14 | 16 30 | 4 18 |
| T 8 | 16 45 | 0s25 | 0 20 | 24 29 | 2 41 | 1 45 | 1 45 | 8 52 | 0 46 | 14 52 | 1 10 | 12 58 | 2 9 | 18 55 | 0 15 | 8 37 | 1 1 | 23 38 | 2 47 | 2 11 | 1 26 | 25 16 | 16 29 | 4 18 |
| W 9 | 17 2 | 6 14 | 0s46 | 24 34 | 2 39 | 2 13 | 1 46 | 8 51 | 0 42 | 14 51 | 1 10 | 13 1 | 2 9 | 18 55 | 0 15 | 8 37 | 1 1 | 23 38 | 2 47 | 2 11 | 1 24 | 25 18 | 16 28 | 4 18 |
| T 10 | 17 19 | 11 46 | 1 49 | 24 38 | 2 35 | 2 40 | 1 48 | 8 50 | 0 39 | 14 49 | 1 9 | 13 3 | 2 9 | 18 54 | 0 15 | 8 37 | 1 1 | 23 38 | 2 47 | 2 10 | 1 23 | 25 20 | 16 27 | 4 19 |
| F 11 | 17 36 | 16 50 | 2 47 | 24 39 | 2 31 | 3 7 | 1 49 | 8 50 | 0 35 | 14 47 | 1 9 | 13 5 | 2 9 | 18 53 | 0 15 | 8 37 | 1 1 | 23 38 | 2 47 | 2 8 | 1 22 | 25 21 | 16 26 | 4 19 |
| S 12 | 17 52 | 21 13 | 3 36 | 24 38 | 2 25 | 3 35 | 1 50 | 8 49 | 0 32 | 14 46 | 1 9 | 13 7 | 2 9 | 18 53 | 0 15 | 8 38 | 1 1 | 23 39 | 2 47 | 2 5 | 1 21 | 25 23 | 16 25 | 4 19 |
| S 13 | 18 8 | 24 44 | 4 17 | 24 36 | 2 19 | 4 2 | 1 51 | 8 49 | 0 29 | 14 44 | 1 9 | 13 9 | 2 9 | 18 52 | 0 15 | 8 38 | 1 1 | 23 39 | 2 48 | 2 2 | 1 19 | 25 25 | 16 25 | 4 19 |
| M14 | 18 24 | 27 12 | 4 46 | 24 30 | 2 11 | 4 29 | 1 52 | 8 49 | 0 25 | 14 42 | 1 9 | 13 12 | 2 9 | 18 52 | 0 15 | 8 38 | 1 1 | 23 39 | 2 48 | 1 58 | 1 18 | 25 27 | 16 24 | 4 19 |
| T 15 | 18 39 | 28 26 | 5 2 | 24 23 | 2 2 | 4 56 | 1 52 | 8 50 | 0 22 | 14 40 | 1 9 | 13 14 | 2 9 | 18 51 | 0 15 | 8 38 | 1 1 | 23 39 | 2 48 | 1 54 | 1 17 | 25 28 | 16 23 | 4 19 |
| W16 | 18 54 | 28 22 | 5 6 | 24 12 | 1 51 | 5 24 | 1 53 | 8 50 | 0 19 | 14 38 | 1 9 | 13 16 | 2 9 | 18 50 | 0 15 | 8 38 | 1 1 | 23 40 | 2 48 | 1 51 | 1 16 | 25 30 | 16 22 | 4 20 |
| T 17 | 19 9 | 26 58 | 4 56 | 23 59 | 1 39 | 5 51 | 1 54 | 8 51 | 0 16 | 14 36 | 1 8 | 13 18 | 2 9 | 18 50 | 0 14 | 8 38 | 1 1 | 23 40 | 2 48 | 1 48 | 1 14 | 25 32 | 16 21 | 4 20 |
| F 18 | 19 23 | 24 17 | 4 33 | 23 44 | 1 25 | 6 18 | 1 54 | 8 52 | 0 13 | 14 34 | 1 8 | 13 20 | 2 9 | 18 49 | 0 14 | 8 38 | 1 1 | 23 40 | 2 48 | 1 45 | 1 13 | 25 33 | 16 20 | 4 20 |
| S 19 | 19 37 | 20 28 | 3 57 | 23 25 | 1 10 | 6 45 | 1 54 | 8 54 | 0 10 | 14 32 | 1 8 | 13 22 | 2 9 | 18 49 | 0 14 | 8 38 | 1 1 | 23 40 | 2 48 | 1 44 | 1 12 | 25 35 | 16 20 | 4 20 |
| S 20 | 19 51 | 15 39 | 3 8 | 23 3 | 0 53 | 7 12 | 1 55 | 8 55 | 0 7 | 14 30 | 1 8 | 13 24 | 2 9 | 18 48 | 0 14 | 8 38 | 1 1 | 23 40 | 2 49 | 1 44 | 1 11 | 25 37 | 16 19 | 4 20 |
| M21 | 20 4 | 10 0 | 2 9 | 22 38 | 0 35 | 7 38 | 1 55 | 8 57 | 0 4 | 14 27 | 1 8 | 13 26 | 2 9 | 18 47 | 0 14 | 8 38 | 1 1 | 23 41 | 2 49 | 1 44 | 1 9 | 25 38 | 16 18 | 4 20 |
| T 22 | 20 17 | 3 45 | 1 1 | 22 10 | 0 15 | 8 5 | 1 55 | 8 59 | 0 1 | 14 25 | 1 8 | 13 29 | 2 9 | 18 47 | 0 14 | 8 38 | 1 1 | 23 41 | 2 49 | 1 44 | 1 8 | 25 40 | 16 17 | 4 20 |
| W23 | 20 29 | 2n53 | 0n13 | 21 40 | 0n 5 | 8 31 | 1 55 | 9 1 | 0n 2 | 14 23 | 1 7 | 13 31 | 2 9 | 18 46 | 0 14 | 8 38 | 1 0 | 23 41 | 2 49 | 1 44 | 1 7 | 25 42 | 16 16 | 4 21 |
| T 24 | 20 42 | 9 37 | 1 28 | 21 8 | 0 25 | 8 58 | 1 55 | 9 4 | 0 5 | 14 20 | 1 7 | 13 33 | 2 9 | 18 46 | 0 14 | 8 38 | 1 0 | 23 41 | 2 49 | 1 44 | 1 5 | 25 43 | 16 16 | 4 21 |
| F 25 | 20 53 | 16 1 | 2 40 | 20 34 | 0 46 | 9 24 | 1 55 | 9 7 | 0 7 | 14 18 | 1 7 | 13 35 | 2 9 | 18 45 | 0 14 | 8 38 | 1 0 | 23 42 | 2 49 | 1 42 | 1 4 | 25 45 | 16 15 | 4 21 |
| S 26 | 21 5 | 21 36 | 3 42 | 20 0 | 1 5 | 9 50 | 1 55 | 9 10 | 0 10 | 14 15 | 1 7 | 13 37 | 2 10 | 18 45 | 0 14 | 8 38 | 1 0 | 23 42 | 2 49 | 1 40 | 1 3 | 25 46 | 16 14 | 4 21 |
| S 27 | 21 16 | 25 49 | 4 29 | 19 26 | 1 24 | 10 16 | 1 54 | 9 13 | 0 12 | 14 12 | 1 7 | 13 39 | 2 10 | 18 44 | 0 14 | 8 37 | 1 0 | 23 42 | 2 49 | 1 37 | 1 2 | 25 48 | 16 13 | 4 21 |
| M28 | 21 26 | 28 9 | 4 56 | 18 53 | 1 42 | 10 41 | 1 54 | 9 17 | 0 15 | 14 10 | 1 7 | 13 41 | 2 10 | 18 43 | 0 14 | 8 37 | 1 0 | 23 43 | 2 50 | 1 33 | 1 0 | 25 50 | 16 12 | 4 21 |
| T 29 | 21 37 | 28 21 | 5 3 | 18 23 | 1 57 | 11 7 | 1 53 | 9 21 | 0 17 | 14 7 | 1 7 | 13 43 | 2 10 | 18 43 | 0 14 | 8 37 | 1 0 | 23 43 | 2 50 | 1 29 | 0 59 | 25 51 | 16 12 | 4 21 |
| W30 | 21s46 | 26n29 | 4n48 | 17s56 | 2n11 | 11s32 | 1n53 | 9n25 | 0n20 | 14s 4 | 1s 6 | 13s45 | 2n10 | 18n42 | 0s14 | 8s37 | 1s 0 | 23n43 | 2n50 | 1n25 | 0n58 | 25s53 | 16n11 | 4s21 |

Julian Day Number = 2338259.5, Delta T = 18.49 sec
Ecliptic obliquity = 23°28'56, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'38, Lahiri = 19°31'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1689
# geocentric

## DECEMBER 1689 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 41 55 | 9♐34'48 | 6♌ 3 | 28°R30 | 6♏31 | 23♈29 | 25♒41 | 13♏14 | 24°R29 | 10♓23 | 26°R14 | 3°R28 | 2♈22 | 6♐ 6 | 1°R11 | T 1 |
| F 2 | 4 45 51 | 10°35'44 | 19°55 | 27♏44 | 7°45 | 23°36 | 25°49 | 13°21 | 24♉27 | 10°24 | 26♋13 | 3♈24 | 2°19 | 6°13 | 1♊ 8 | F 2 |
| S 3 | 4 49 48 | 11°36'41 | 3♍18 | 27°10 | 8°59 | 23°43 | 25°57 | 13°28 | 24°24 | 10°24 | 26°12 | 3°22 | 2°16 | 6°19 | 1° 4 | S 3 |
| S 4 | 4 53 45 | 12°37'39 | 16°14 | 26°47 | 10°13 | 23°50 | 26° 5 | 13°34 | 24°22 | 10°24 | 26°11 | 3°D22 | 2°13 | 6°26 | 1° 1 | S 4 |
| M 5 | 4 57 41 | 13°38'39 | 28°47 | 26°36 | 11°27 | 23°58 | 26°14 | 13°41 | 24°20 | 10°25 | 26°10 | 3°R22 | 2° 9 | 6°33 | 0°57 | M 5 |
| T 6 | 5 1 38 | 14°39'40 | 11♎ 4 | 26°D34 | 12°41 | 24° 7 | 26°23 | 13°47 | 24°17 | 10°25 | 26° 9 | 3°22 | 2° 6 | 6°40 | 0°54 | T 6 |
| W 7 | 5 5 34 | 15°40'41 | 23° 7 | 26°43 | 13°55 | 24°17 | 26°32 | 13°54 | 24°15 | 10°26 | 26° 8 | 3°20 | 2° 3 | 6°46 | 0°51 | W 7 |
| T 8 | 5 9 31 | 16°41'44 | 5♏ 3 | 27° 1 | 15° 9 | 24°27 | 26°40 | 14° 0 | 24°13 | 10°26 | 26° 7 | 3°15 | 2° 0 | 6°53 | 0°47 | T 8 |
| F 9 | 5 13 27 | 17°42'48 | 16°54 | 27°28 | 16°23 | 24°38 | 26°50 | 14° 7 | 24°10 | 10°27 | 26° 6 | 3° 8 | 1°57 | 7° 0 | 0°44 | F 9 |
| S 10 | 5 17 24 | 18°43'53 | 28°44 | 28° 2 | 17°37 | 24°50 | 26°59 | 14°13 | 24° 8 | 10°28 | 26° 5 | 2°58 | 1°54 | 7° 6 | 0°41 | S 10 |
| S 11 | 5 21 20 | 19°44'58 | 10♐35 | 28°42 | 18°52 | 25° 2 | 27° 8 | 14°19 | 24° 6 | 10°28 | 26° 4 | 2°45 | 1°50 | 7°13 | 0°37 | S 11 |
| M12 | 5 25 17 | 20°46'05 | 22°28 | 29°29 | 20° 6 | 25°15 | 27°18 | 14°26 | 24° 4 | 10°29 | 26° 3 | 2°30 | 1°47 | 7°20 | 0°34 | M12 |
| T 13 | 5 29 14 | 21°47'11 | 4♑25 | 0♐20 | 21°20 | 25°28 | 27°27 | 14°32 | 24° 2 | 10°30 | 26° 2 | 2°15 | 1°44 | 7°27 | 0°31 | T 13 |
| W14 | 5 33 10 | 22°48'19 | 16°27 | 1°17 | 22°35 | 25°42 | 27°37 | 14°38 | 23°59 | 10°31 | 26° 1 | 2° 1 | 1°41 | 7°33 | 0°28 | W14 |
| T 15 | 5 37 7 | 23°49'27 | 28°35 | 2°17 | 23°49 | 25°57 | 27°47 | 14°44 | 23°57 | 10°31 | 26° 0 | 1°49 | 1°38 | 7°40 | 0°24 | T 15 |
| F 16 | 5 41 3 | 24°50'35 | 10♒51 | 3°21 | 25° 3 | 26°12 | 27°57 | 14°50 | 23°55 | 10°32 | 25°59 | 1°39 | 1°35 | 7°47 | 0°21 | F 16 |
| S 17 | 5 45 0 | 25°51'43 | 23°17 | 4°28 | 26°18 | 26°27 | 28° 7 | 14°56 | 23°53 | 10°33 | 25°58 | 1°33 | 1°31 | 7°53 | 0°18 | S 17 |
| S 18 | 5 48 56 | 26°52'52 | 5♓57 | 5°38 | 27°32 | 26°43 | 28°17 | 15° 2 | 23°51 | 10°34 | 25°57 | 1°30 | 1°28 | 8° 0 | 0°15 | S 18 |
| M19 | 5 52 53 | 27°54'01 | 18°52 | 6°50 | 28°47 | 27° 0 | 28°28 | 15° 8 | 23°49 | 10°35 | 25°56 | 1°28 | 1°25 | 8° 7 | 0°12 | M19 |
| T 20 | 5 56 50 | 28°55'09 | 2♈ 8 | 8° 5 | 0♐ 1 | 27°17 | 28°38 | 15°14 | 23°47 | 10°36 | 25°55 | 1°28 | 1°22 | 8°14 | 0° 9 | T 20 |
| W21 | 6 0 46 | 29°56'18 | 15°47 | 9°21 | 1°16 | 27°35 | 28°49 | 15°20 | 23°45 | 10°37 | 25°53 | 1°28 | 1°19 | 8°20 | 0° 6 | W21 |
| T 22 | 6 4 43 | 0♑57'27 | 29°52 | 10°39 | 2°30 | 27°53 | 29° 0 | 15°26 | 23°44 | 10°38 | 25°52 | 1°26 | 1°15 | 8°27 | 0° 4 | T 22 |
| F 23 | 6 8 39 | 1°58'36 | 14♉22 | 11°58 | 3°45 | 28°12 | 29°10 | 15°31 | 23°42 | 10°39 | 25°51 | 1°22 | 1°12 | 8°34 | 0° 1 | F 23 |
| S 24 | 6 12 36 | 2°59'45 | 29°14 | 13°19 | 5° 0 | 28°31 | 29°21 | 15°37 | 23°40 | 10°40 | 25°50 | 1°15 | 1° 9 | 8°40 | 29♉58 | S 24 |
| S 25 | 6 16 32 | 4° 0'54 | 14♊23 | 14°41 | 6°14 | 28°50 | 29°32 | 15°43 | 23°38 | 10°41 | 25°49 | 1° 5 | 1° 6 | 8°47 | 29°55 | S 25 |
| M26 | 6 20 29 | 5° 2'03 | 29°38 | 16° 4 | 7°29 | 29°10 | 29°44 | 15°48 | 23°37 | 10°42 | 25°47 | 0°53 | 1° 3 | 8°54 | 29°52 | M26 |
| T 27 | 6 24 25 | 6° 3'12 | 14♋48 | 17°28 | 8°44 | 29°30 | 29°55 | 15°54 | 23°35 | 10°44 | 25°46 | 0°41 | 1° 0 | 9° 1 | 29°50 | T 27 |
| W28 | 6 28 22 | 7° 4'21 | 29°43 | 18°52 | 9°58 | 29°51 | 0♓ 6 | 15°59 | 23°33 | 10°45 | 25°45 | 0°30 | 0°56 | 9° 7 | 29°47 | W28 |
| T 29 | 6 32 19 | 8° 5'30 | 14♌13 | 20°18 | 11°13 | 0♉12 | 0°18 | 16° 4 | 23°32 | 10°46 | 25°44 | 0°22 | 0°53 | 9°14 | 29°45 | T 29 |
| F 30 | 6 36 15 | 9° 6'39 | 28°15 | 21°44 | 12°28 | 0°33 | 0°29 | 16°10 | 23°30 | 10°47 | 25°42 | 0°16 | 0°50 | 9°21 | 29°42 | F 30 |
| S 31 | 6 40 12 | 10♑ 7'49 | 11♍47 | 23♐11 | 13♐42 | 0♉55 | 0♓41 | 16♏15 | 23♉29 | 10♓49 | 25♋41 | 0♈13 | 0♈47 | 9♐27 | 29♉40 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s56 | 22n55 | 4n16 | 17s33 | 2n22 | 11s57 | 1n52 | 9n29 | 0n22 | 14s 1 | 1s 6 | 13s47 | 2n10 | 18n42 | 0s14 | 8s37 | 1s 0 | 23n43 | 2n50 | 1n23 | 0n57 | 25s55 | 16n10 | 4s21 |
| F 2 | 22 5 | 18 11 | 3 29 | 17 14 | 2 31 | 12 22 | 1 51 | 9 33 | 0 24 | 13 59 | 1 6 | 13 49 | 2 10 | 18 41 | 0 14 | 8 37 | 1 0 | 23 44 | 2 50 | 1 21 | 0 55 | 25 56 | 16 9 | 4 21 |
| S 3 | 22 13 | 12 41 | 2 33 | 17 0 | 2 38 | 12 46 | 1 50 | 9 38 | 0 26 | 13 56 | 1 6 | 13 50 | 2 10 | 18 40 | 0 14 | 8 37 | 1 0 | 23 44 | 2 50 | 1 20 | 0 54 | 25 58 | 16 9 | 4 21 |
| S 4 | 22 21 | 6 49 | 1 30 | 16 50 | 2 43 | 13 10 | 1 50 | 9 43 | 0 29 | 13 53 | 1 6 | 13 52 | 2 10 | 18 40 | 0 14 | 8 36 | 1 0 | 23 44 | 2 50 | 1 20 | 0 53 | 25 59 | 16 8 | 4 21 |
| M 5 | 22 29 | 0 51 | 0 24 | 16 45 | 2 46 | 13 34 | 1 49 | 9 48 | 0 31 | 13 50 | 1 6 | 13 54 | 2 10 | 18 39 | 0 14 | 8 36 | 1 0 | 23 45 | 2 50 | 1 20 | 0 52 | 26 1 | 16 7 | 4 21 |
| T 6 | 22 36 | 5s 0 | 0s41 | 16 43 | 2 47 | 13 58 | 1 48 | 9 53 | 0 33 | 13 46 | 1 6 | 13 56 | 2 10 | 18 39 | 0 14 | 8 36 | 1 0 | 23 45 | 2 51 | 1 20 | 0 50 | 26 2 | 16 7 | 4 21 |
| W 7 | 22 43 | 10 36 | 1 43 | 16 46 | 2 46 | 14 21 | 1 46 | 9 58 | 0 35 | 13 43 | 1 6 | 13 58 | 2 10 | 18 38 | 0 14 | 8 36 | 1 0 | 23 45 | 2 51 | 1 20 | 0 49 | 26 4 | 16 6 | 4 21 |
| T 8 | 22 49 | 15 44 | 2 39 | 16 52 | 2 44 | 14 44 | 1 45 | 10 4 | 0 37 | 13 40 | 1 5 | 14 0 | 2 10 | 18 38 | 0 14 | 8 36 | 1 0 | 23 45 | 2 51 | 1 18 | 0 48 | 26 5 | 16 5 | 4 21 |
| F 9 | 22 55 | 20 15 | 3 29 | 17 0 | 2 42 | 15 6 | 1 44 | 10 9 | 0 38 | 13 37 | 1 5 | 14 2 | 2 10 | 18 37 | 0 14 | 8 35 | 1 0 | 23 46 | 2 51 | 1 15 | 0 47 | 26 7 | 16 5 | 4 21 |
| S 10 | 23 0 | 23 57 | 4 9 | 17 12 | 2 38 | 15 29 | 1 43 | 10 15 | 0 40 | 13 34 | 1 5 | 14 3 | 2 11 | 18 37 | 0 14 | 8 35 | 1 0 | 23 46 | 2 51 | 1 11 | 0 45 | 26 8 | 16 4 | 4 21 |
| S 11 | 23 5 | 26 39 | 4 38 | 17 25 | 2 33 | 15 50 | 1 41 | 10 22 | 0 42 | 13 30 | 1 5 | 14 5 | 2 11 | 18 36 | 0 14 | 8 35 | 1 0 | 23 46 | 2 51 | 1 6 | 0 44 | 26 10 | 16 3 | 4 21 |
| M12 | 23 10 | 28 11 | 4 55 | 17 40 | 2 28 | 16 12 | 1 40 | 10 28 | 0 44 | 13 27 | 1 5 | 14 7 | 2 11 | 18 36 | 0 14 | 8 34 | 1 0 | 23 47 | 2 51 | 1 0 | 0 43 | 26 12 | 16 3 | 4 21 |
| T 13 | 23 14 | 28 24 | 4 59 | 17 57 | 2 22 | 16 33 | 1 38 | 10 34 | 0 45 | 13 23 | 1 5 | 14 9 | 2 11 | 18 35 | 0 14 | 8 34 | 1 0 | 23 47 | 2 51 | 0 54 | 0 41 | 26 13 | 16 2 | 4 21 |
| W14 | 23 17 | 27 16 | 4 50 | 18 15 | 2 15 | 16 53 | 1 37 | 10 41 | 0 47 | 13 20 | 1 5 | 14 10 | 2 11 | 18 35 | 0 14 | 8 34 | 1 0 | 23 47 | 2 51 | 0 48 | 0 40 | 26 15 | 16 1 | 4 21 |
| T 15 | 23 20 | 24 51 | 4 28 | 18 34 | 2 8 | 17 14 | 1 35 | 10 48 | 0 49 | 13 16 | 1 5 | 14 12 | 2 11 | 18 34 | 0 14 | 8 34 | 1 0 | 23 48 | 2 52 | 0 43 | 0 39 | 26 16 | 16 1 | 4 21 |
| F 16 | 23 23 | 21 17 | 3 53 | 18 53 | 2 1 | 17 33 | 1 33 | 10 55 | 0 50 | 13 13 | 1 4 | 14 14 | 2 11 | 18 34 | 0 14 | 8 33 | 1 0 | 23 48 | 2 52 | 0 40 | 0 38 | 26 17 | 16 0 | 4 21 |
| S 17 | 23 25 | 16 43 | 3 7 | 19 13 | 1 53 | 17 53 | 1 31 | 11 2 | 0 52 | 13 9 | 1 4 | 14 15 | 2 11 | 18 33 | 0 14 | 8 33 | 1 0 | 23 48 | 2 52 | 0 37 | 0 36 | 26 19 | 15 59 | 4 21 |
| S 18 | 23 27 | 11 22 | 2 10 | 19 33 | 1 46 | 18 11 | 1 30 | 11 9 | 0 53 | 13 6 | 1 4 | 14 17 | 2 11 | 18 33 | 0 14 | 8 32 | 1 0 | 23 49 | 2 52 | 0 36 | 0 35 | 26 20 | 15 59 | 4 21 |
| M19 | 23 28 | 5 25 | 1 6 | 19 53 | 1 38 | 18 30 | 1 28 | 11 16 | 0 55 | 13 2 | 1 4 | 14 19 | 2 12 | 18 32 | 0 14 | 8 32 | 1 0 | 23 49 | 2 52 | 0 35 | 0 34 | 26 22 | 15 58 | 4 21 |
| T 20 | 23 29 | 0n54 | 0n 3 | 20 13 | 1 30 | 18 48 | 1 26 | 11 24 | 0 56 | 12 58 | 1 4 | 14 20 | 2 12 | 18 32 | 0 14 | 8 32 | 1 0 | 23 49 | 2 52 | 0 35 | 0 33 | 26 23 | 15 58 | 4 21 |
| W21 | 23 29 | 7 22 | 1 15 | 20 33 | 1 22 | 19 5 | 1 24 | 11 31 | 0 57 | 12 54 | 1 4 | 14 22 | 2 12 | 18 31 | 0 14 | 8 31 | 1 0 | 23 50 | 2 52 | 0 35 | 0 31 | 26 25 | 15 57 | 4 21 |
| T 22 | 23 29 | 13 41 | 2 24 | 20 52 | 1 13 | 19 22 | 1 22 | 11 39 | 0 59 | 12 50 | 1 4 | 14 23 | 2 12 | 18 31 | 0 14 | 8 31 | 1 0 | 23 50 | 2 52 | 0 34 | 0 30 | 26 26 | 15 57 | 4 21 |
| F 23 | 23 28 | 19 27 | 3 25 | 21 11 | 1 5 | 19 38 | 1 20 | 11 47 | 1 0 | 12 47 | 1 4 | 14 25 | 2 12 | 18 30 | 0 14 | 8 30 | 1 0 | 23 50 | 2 52 | 0 33 | 0 29 | 26 28 | 15 56 | 4 21 |
| S 24 | 23 27 | 24 10 | 4 15 | 21 29 | 0 57 | 19 54 | 1 18 | 11 55 | 1 1 | 12 43 | 1 4 | 14 26 | 2 12 | 18 30 | 0 14 | 8 30 | 1 0 | 23 51 | 2 53 | 0 30 | 0 28 | 26 29 | 15 56 | 4 21 |
| S 25 | 23 25 | 27 19 | 4 47 | 21 47 | 0 49 | 20 9 | 1 15 | 12 3 | 1 2 | 12 39 | 1 3 | 14 28 | 2 12 | 18 29 | 0 14 | 8 30 | 1 0 | 23 51 | 2 53 | 0 26 | 0 26 | 26 30 | 15 55 | 4 21 |
| M26 | 23 23 | 28 29 | 5 0 | 22 4 | 0 41 | 20 24 | 1 13 | 12 11 | 1 4 | 12 35 | 1 3 | 14 29 | 2 12 | 18 29 | 0 14 | 8 29 | 1 0 | 23 51 | 2 53 | 0 21 | 0 25 | 26 32 | 15 55 | 4 21 |
| T 27 | 23 21 | 27 29 | 4 51 | 22 20 | 0 33 | 20 38 | 1 11 | 12 19 | 1 5 | 12 31 | 1 3 | 14 31 | 2 13 | 18 29 | 0 14 | 8 29 | 1 0 | 23 51 | 2 53 | 0 16 | 0 24 | 26 33 | 15 54 | 4 21 |
| W28 | 23 18 | 24 31 | 4 22 | 22 36 | 0 25 | 20 51 | 1 9 | 12 28 | 1 6 | 12 26 | 1 3 | 14 32 | 2 13 | 18 28 | 0 14 | 8 28 | 1 0 | 23 52 | 2 53 | 0 12 | 0 22 | 26 35 | 15 54 | 4 21 |
| T 29 | 23 14 | 20 3 | 3 37 | 22 50 | 0 17 | 21 4 | 1 6 | 12 36 | 1 7 | 12 22 | 1 3 | 14 33 | 2 13 | 18 28 | 0 14 | 8 28 | 1 0 | 23 52 | 2 53 | 0 9 | 0 21 | 26 36 | 15 53 | 4 20 |
| F 30 | 23 10 | 14 36 | 2 40 | 23 4 | 0 10 | 21 16 | 1 4 | 12 45 | 1 8 | 12 18 | 1 3 | 14 35 | 2 13 | 18 27 | 0 14 | 8 27 | 1 0 | 23 52 | 2 53 | 0 6 | 0 20 | 26 37 | 15 53 | 4 20 |
| S 31 | 23s 6 | 8n38 | 1n36 | 23s16 | 0n 2 | 21s28 | 1n 1 | 12n53 | 1n 9 | 12s14 | 1s 3 | 14s36 | 2n13 | 18n27 | 0s14 | 8s27 | 1s 0 | 23n53 | 2n53 | 0n 5 | 0n19 | 26s39 | 15n52 | 4s20 |

Julian Day Number = 2338289.5, Delta T = 18.46 sec
Ecliptic obliquity = 23°28'55, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'43, Lahiri = 19°31'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## JANUARY 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 44 8 | 11♑ 8'58 | 24♍50 | 24♐38 | 14♐57 | 1♉17 | 0♓52 | 16♏20 | 23°R27 | 10♓50 | 25°R40 | 0°R11 | 0♈44 | 9♐34 | 29°R37 | S 1 |
| M 2 | 6 48 5 | 12°10'08 | 7♎28 | 26° 7 | 16°12 | 1°40 | 1° 4 | 16°25 | 23♉26 | 10°51 | 25♋39 | 0♈11 | 0°41 | 9°41 | 29♉35 | M 2 |
| T 3 | 6 52 1 | 13°11'18 | 19°46 | 27°35 | 17°27 | 2° 3 | 1°16 | 16°30 | 23°24 | 10°53 | 25°37 | 0°11 | 0°37 | 9°48 | 29°33 | T 3 |
| W 4 | 6 55 58 | 14°12'28 | 1♏50 | 29° 5 | 18°42 | 2°26 | 1°28 | 16°35 | 23°23 | 10°54 | 25°36 | 0°10 | 0°34 | 9°54 | 29°31 | W 4 |
| T 5 | 6 59 54 | 15°13'38 | 13°44 | 0♑34 | 19°56 | 2°50 | 1°40 | 16°40 | 23°22 | 10°56 | 25°35 | 0° 6 | 0°31 | 10° 1 | 29°28 | T 5 |
| F 6 | 7 3 51 | 16°14'48 | 25°34 | 2° 5 | 21°11 | 3°14 | 1°52 | 16°45 | 23°20 | 10°57 | 25°33 | 29♓59 | 0°28 | 10° 8 | 29°26 | F 6 |
| S 7 | 7 7 48 | 17°15'58 | 7♐24 | 3°36 | 22°26 | 3°38 | 2° 5 | 16°49 | 23°19 | 10°59 | 25°32 | 29°51 | 0°25 | 10°14 | 29°24 | S 7 |
| S 8 | 7 11 44 | 18°17'08 | 19°16 | 5° 7 | 23°41 | 4° 2 | 2°17 | 16°54 | 23°18 | 11° 0 | 25°31 | 29°39 | 0°21 | 10°21 | 29°22 | S 8 |
| M 9 | 7 15 41 | 19°18'17 | 1♑14 | 6°39 | 24°56 | 4°27 | 2°30 | 16°59 | 23°17 | 11° 2 | 25°29 | 29°26 | 0°18 | 10°28 | 29°20 | M 9 |
| T 10 | 7 19 37 | 20°19'26 | 13°18 | 8°11 | 26°11 | 4°52 | 2°42 | 17° 3 | 23°16 | 11° 3 | 25°28 | 29°12 | 0°15 | 10°35 | 29°19 | T 10 |
| W11 | 7 23 34 | 21°20'35 | 25°31 | 9°44 | 27°25 | 5°18 | 2°55 | 17° 7 | 23°15 | 11° 5 | 25°27 | 28°59 | 0°12 | 10°41 | 29°17 | W11 |
| T 12 | 7 27 30 | 22°21'43 | 7♒52 | 11°17 | 28°40 | 5°44 | 3° 7 | 17°12 | 23°14 | 11° 6 | 25°25 | 28°47 | 0° 9 | 10°48 | 29°15 | T 12 |
| F 13 | 7 31 27 | 23°22'50 | 20°22 | 12°51 | 29°55 | 6°10 | 3°20 | 17°16 | 23°13 | 11° 8 | 25°24 | 28°39 | 0° 6 | 10°55 | 29°13 | F 13 |
| S 14 | 7 35 24 | 24°23'57 | 3♓ 2 | 14°25 | 1♑10 | 6°36 | 3°33 | 17°20 | 23°12 | 11°10 | 25°23 | 28°33 | 0° 2 | 11° 1 | 29°12 | S 14 |
| S 15 | 7 39 20 | 25°25'03 | 15°53 | 16° 0 | 2°25 | 7° 2 | 3°46 | 17°24 | 23°11 | 11°12 | 25°21 | 28°30 | 29♓59 | 11° 8 | 29°10 | S 15 |
| M16 | 7 43 17 | 26°26'08 | 28°57 | 17°36 | 3°40 | 7°29 | 3°59 | 17°28 | 23°10 | 11°13 | 25°20 | 28°D29 | 29°56 | 11°15 | 29° 9 | M16 |
| T 17 | 7 47 13 | 27°27'12 | 12♈16 | 19°12 | 4°55 | 7°56 | 4°12 | 17°32 | 23°10 | 11°15 | 25°19 | 28°30 | 29°53 | 11°22 | 29° 8 | T 17 |
| W18 | 7 51 10 | 28°28'15 | 25°52 | 20°49 | 6°10 | 8°23 | 4°25 | 17°36 | 23° 9 | 11°17 | 25°17 | 28°R30 | 29°50 | 11°28 | 29° 6 | W18 |
| T 19 | 7 55 6 | 29°29'17 | 9♉47 | 22°26 | 7°25 | 8°51 | 4°38 | 17°40 | 23° 8 | 11°19 | 25°16 | 28°30 | 29°47 | 11°35 | 29° 5 | T 19 |
| F 20 | 7 59 3 | 0♒30'18 | 24° 0 | 24° 4 | 8°39 | 9°19 | 4°51 | 17°43 | 23° 8 | 11°20 | 25°15 | 28°27 | 29°43 | 11°42 | 29° 4 | F 20 |
| S 21 | 8 2 59 | 1°31'18 | 8♊31 | 25°42 | 9°54 | 9°47 | 5° 4 | 17°47 | 23° 7 | 11°22 | 25°13 | 28°23 | 29°40 | 11°48 | 29° 3 | S 21 |
| S 22 | 8 6 56 | 2°32'16 | 23°15 | 27°21 | 11° 9 | 10°15 | 5°18 | 17°50 | 23° 7 | 11°24 | 25°12 | 28°16 | 29°37 | 11°55 | 29° 2 | S 22 |
| M23 | 8 10 53 | 3°33'14 | 8♋ 6 | 29° 1 | 12°24 | 10°43 | 5°31 | 17°54 | 23° 7 | 11°26 | 25°11 | 28° 7 | 29°34 | 12° 2 | 29° 1 | M23 |
| T 24 | 8 14 49 | 4°34'11 | 22°57 | 0♒41 | 13°39 | 11°12 | 5°45 | 17°57 | 23° 6 | 11°28 | 25° 9 | 27°58 | 29°31 | 12° 9 | 29° 0 | T 24 |
| W25 | 8 18 46 | 5°35'06 | 7♌38 | 2°22 | 14°54 | 11°41 | 5°58 | 18° 0 | 23° 6 | 11°30 | 25° 8 | 27°50 | 29°27 | 12°15 | 28°59 | W25 |
| T 26 | 8 22 42 | 6°36'00 | 22° 1 | 4° 4 | 16° 9 | 12° 9 | 6°12 | 18° 3 | 23° 6 | 11°32 | 25° 7 | 27°43 | 29°24 | 12°22 | 28°58 | T 26 |
| F 27 | 8 26 39 | 7°36'54 | 6♍ 1 | 5°46 | 17°24 | 12°39 | 6°25 | 18° 6 | 23° 5 | 11°34 | 25° 6 | 27°39 | 29°21 | 12°29 | 28°58 | F 27 |
| S 28 | 8 30 35 | 8°37'46 | 19°35 | 7°30 | 18°39 | 13° 8 | 6°39 | 18° 9 | 23° 5 | 11°36 | 25° 4 | 27°37 | 29°18 | 12°35 | 28°57 | S 28 |
| S 29 | 8 34 32 | 9°38'38 | 2♎43 | 9°13 | 19°54 | 13°37 | 6°53 | 18°12 | 23° 5 | 11°38 | 25° 3 | 27°D36 | 29°15 | 12°42 | 28°57 | S 29 |
| M30 | 8 38 28 | 10°39'28 | 15°27 | 10°58 | 21° 8 | 14° 7 | 7° 6 | 18°15 | 23°D 5 | 11°40 | 25° 2 | 27°38 | 29°12 | 12°49 | 28°56 | M30 |
| T 31 | 8 42 25 | 11♒40'18 | 27♎51 | 12♒43 | 22♑23 | 14♉37 | 7♓20 | 18♏17 | 23♉ 5 | 11♓42 | 25♋ 0 | 27♓39 | 29♓ 8 | 12♐56 | 28♉56 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 1 | 2n30 | 0n28 | 23s28 | 0s 5 | 21s39 | 0n59 | 13n 2 | 1n10 | 12s10 | 1s 3 | 14s37 | 2n13 | 18n27 | 0s14 | 8s26 | 1s 0 | 23n53 | 2n53 | 0n 5 | 0n17 | 26s40 | 15n52 | 4s20 |
| M 2 | 22 55 | 3s33 | 0s38 | 23 38 | 0 13 | 21 50 | 0 57 | 13 11 | 1 11 | 12 5 | 1 3 | 14 39 | 2 13 | 18 26 | 0 14 | 8 26 | 1 0 | 23 53 | 2 53 | 0 5 | 0 16 | 26 41 | 15 52 | 4 20 |
| T 3 | 22 50 | 9 19 | 1 42 | 23 47 | 0 20 | 21 59 | 0 54 | 13 20 | 1 12 | 12 1 | 1 3 | 14 40 | 2 14 | 18 26 | 0 14 | 8 25 | 1 0 | 23 54 | 2 53 | 0 4 | 0 15 | 26 43 | 15 51 | 4 20 |
| W 4 | 22 43 | 14 37 | 2 39 | 23 56 | 0 27 | 22 9 | 0 52 | 13 29 | 1 13 | 11 57 | 1 3 | 14 41 | 2 14 | 18 26 | 0 14 | 8 24 | 0 59 | 23 54 | 2 54 | 0 4 | 0 14 | 26 44 | 15 51 | 4 20 |
| T 5 | 22 37 | 19 18 | 3 29 | 24 3 | 0 34 | 22 17 | 0 49 | 13 37 | 1 13 | 11 52 | 1 2 | 14 42 | 2 14 | 18 25 | 0 14 | 8 24 | 0 59 | 23 54 | 2 54 | 0 3 | 0 12 | 26 46 | 15 51 | 4 20 |
| F 6 | 22 30 | 23 13 | 4 9 | 24 8 | 0 40 | 22 25 | 0 46 | 13 46 | 1 14 | 11 48 | 1 2 | 14 44 | 2 14 | 18 25 | 0 14 | 8 23 | 0 59 | 23 55 | 2 54 | 0s 0 | 0 11 | 26 47 | 15 50 | 4 20 |
| S 7 | 22 22 | 26 10 | 4 38 | 24 13 | 0 47 | 22 32 | 0 44 | 13 56 | 1 15 | 11 43 | 1 2 | 14 45 | 2 14 | 18 25 | 0 14 | 8 23 | 0 59 | 23 55 | 2 54 | 0 4 | 0 10 | 26 48 | 15 50 | 4 19 |
| S 8 | 22 14 | 27 58 | 4 56 | 24 16 | 0 53 | 22 39 | 0 41 | 14 5 | 1 16 | 11 39 | 1 2 | 14 46 | 2 14 | 18 25 | 0 14 | 8 22 | 0 59 | 23 55 | 2 54 | 0 8 | 0 9 | 26 49 | 15 50 | 4 19 |
| M 9 | 22 5 | 28 29 | 5 1 | 24 18 | 0 59 | 22 44 | 0 39 | 14 14 | 1 17 | 11 34 | 1 2 | 14 47 | 2 15 | 18 24 | 0 14 | 8 22 | 0 59 | 23 56 | 2 54 | 0 14 | 0 7 | 26 51 | 15 50 | 4 19 |
| T 10 | 21 56 | 27 39 | 4 52 | 24 19 | 1 5 | 22 50 | 0 36 | 14 23 | 1 17 | 11 30 | 1 2 | 14 48 | 2 15 | 18 24 | 0 14 | 8 21 | 0 59 | 23 56 | 2 54 | 0 19 | 0 6 | 26 52 | 15 49 | 4 19 |
| W11 | 21 47 | 25 30 | 4 30 | 24 18 | 1 11 | 22 54 | 0 33 | 14 32 | 1 18 | 11 25 | 1 2 | 14 49 | 2 15 | 18 24 | 0 14 | 8 20 | 0 59 | 23 56 | 2 54 | 0 24 | 0 5 | 26 53 | 15 49 | 4 19 |
| T 12 | 21 37 | 22 7 | 3 55 | 24 16 | 1 16 | 22 58 | 0 31 | 14 41 | 1 19 | 11 20 | 1 2 | 14 50 | 2 15 | 18 24 | 0 14 | 8 20 | 0 59 | 23 57 | 2 54 | 0 29 | 0 3 | 26 55 | 15 49 | 4 19 |
| F 13 | 21 27 | 17 42 | 3 8 | 24 13 | 1 21 | 23 1 | 0 28 | 14 51 | 1 19 | 11 16 | 1 2 | 14 51 | 2 15 | 18 23 | 0 14 | 8 19 | 0 59 | 23 57 | 2 54 | 0 32 | 0 2 | 26 56 | 15 49 | 4 19 |
| S 14 | 21 17 | 12 27 | 2 11 | 24 8 | 1 26 | 23 3 | 0 25 | 15 0 | 1 20 | 11 11 | 1 2 | 14 52 | 2 15 | 18 23 | 0 14 | 8 18 | 0 59 | 23 57 | 2 54 | 0 35 | 0 1 | 26 57 | 15 49 | 4 18 |
| S 15 | 21 6 | 6 36 | 1 7 | 24 2 | 1 31 | 23 5 | 0 23 | 15 9 | 1 21 | 11 6 | 1 2 | 14 53 | 2 16 | 18 23 | 0 14 | 8 18 | 0 59 | 23 58 | 2 54 | 0 36 | 0s 0 | 26 58 | 15 48 | 4 18 |
| M16 | 20 54 | 0 23 | 0n 3 | 23 54 | 1 36 | 23 6 | 0 20 | 15 19 | 1 21 | 11 2 | 1 2 | 14 54 | 2 16 | 18 23 | 0 14 | 8 17 | 0 59 | 23 58 | 2 54 | 0 36 | 0 2 | 27 0 | 15 48 | 4 18 |
| T 17 | 20 42 | 5n59 | 1 13 | 23 45 | 1 40 | 23 6 | 0 17 | 15 28 | 1 22 | 10 57 | 1 2 | 14 55 | 2 16 | 18 23 | 0 14 | 8 16 | 0 59 | 23 58 | 2 55 | 0 36 | 0 3 | 27 1 | 15 48 | 4 18 |
| W18 | 20 30 | 12 12 | 2 21 | 23 34 | 1 44 | 23 6 | 0 15 | 15 38 | 1 22 | 10 52 | 1 2 | 14 56 | 2 16 | 18 23 | 0 14 | 8 16 | 0 59 | 23 59 | 2 55 | 0 36 | 0 4 | 27 2 | 15 48 | 4 18 |
| T 19 | 20 18 | 17 57 | 3 22 | 23 22 | 1 47 | 23 5 | 0 12 | 15 47 | 1 23 | 10 47 | 1 2 | 14 57 | 2 16 | 18 22 | 0 13 | 8 15 | 0 59 | 23 59 | 2 55 | 0 36 | 0 5 | 27 3 | 15 48 | 4 18 |
| F 20 | 20 5 | 22 52 | 4 12 | 23 9 | 1 50 | 23 3 | 0 9 | 15 56 | 1 24 | 10 42 | 1 2 | 14 58 | 2 16 | 18 22 | 0 13 | 8 14 | 0 59 | 23 59 | 2 55 | 0 37 | 0 7 | 27 5 | 15 48 | 4 17 |
| S 21 | 19 51 | 26 29 | 4 47 | 22 54 | 1 53 | 23 0 | 0 7 | 16 6 | 1 24 | 10 37 | 1 1 | 14 59 | 2 17 | 18 22 | 0 13 | 8 14 | 0 59 | 24 0 | 2 55 | 0 39 | 0 8 | 27 6 | 15 48 | 4 17 |
| S 22 | 19 38 | 28 22 | 5 4 | 22 37 | 1 56 | 22 57 | 0 4 | 16 15 | 1 25 | 10 32 | 1 1 | 14 59 | 2 17 | 18 22 | 0 13 | 8 13 | 0 59 | 24 0 | 2 55 | 0 42 | 0 9 | 27 7 | 15 48 | 4 17 |
| M23 | 19 24 | 28 14 | 5 0 | 22 19 | 1 58 | 22 53 | 0 1 | 16 25 | 1 25 | 10 27 | 1 1 | 15 0 | 2 17 | 18 22 | 0 13 | 8 12 | 0 59 | 24 0 | 2 55 | 0 45 | 0 10 | 27 8 | 15 48 | 4 17 |
| T 24 | 19 9 | 26 4 | 4 37 | 22 0 | 2 0 | 22 48 | 0s 1 | 16 34 | 1 26 | 10 22 | 1 1 | 15 1 | 2 17 | 18 22 | 0 13 | 8 11 | 0 59 | 24 0 | 2 55 | 0 49 | 0 12 | 27 9 | 15 48 | 4 17 |
| W25 | 18 54 | 22 11 | 3 55 | 21 39 | 2 2 | 22 43 | 0 4 | 16 44 | 1 26 | 10 17 | 1 1 | 15 1 | 2 17 | 18 22 | 0 13 | 8 11 | 0 59 | 24 1 | 2 55 | 0 52 | 0 13 | 27 11 | 15 48 | 4 16 |
| T 26 | 18 39 | 17 1 | 2 59 | 21 16 | 2 3 | 22 37 | 0 7 | 16 53 | 1 26 | 10 12 | 1 1 | 15 2 | 2 18 | 18 22 | 0 13 | 8 10 | 0 59 | 24 1 | 2 55 | 0 54 | 0 14 | 27 12 | 15 48 | 4 16 |
| F 27 | 18 24 | 11 5 | 1 53 | 20 52 | 2 4 | 22 30 | 0 9 | 17 2 | 1 27 | 10 7 | 1 1 | 15 3 | 2 18 | 18 22 | 0 13 | 8 9 | 0 59 | 24 1 | 2 55 | 0 56 | 0 15 | 27 13 | 15 48 | 4 16 |
| S 28 | 18 8 | 4 47 | 0 43 | 20 26 | 2 4 | 22 23 | 0 12 | 17 12 | 1 27 | 10 2 | 1 1 | 15 3 | 2 18 | 18 22 | 0 13 | 8 8 | 0 59 | 24 2 | 2 55 | 0 57 | 0 17 | 27 14 | 15 48 | 4 16 |
| S 29 | 17 52 | 1s30 | 0s28 | 19 59 | 2 5 | 22 14 | 0 14 | 17 21 | 1 28 | 9 57 | 1 1 | 15 4 | 2 18 | 18 22 | 0 13 | 8 8 | 0 59 | 24 2 | 2 55 | 0 57 | 0 18 | 27 15 | 15 48 | 4 16 |
| M30 | 17 36 | 7 33 | 1 35 | 19 30 | 2 4 | 22 6 | 0 17 | 17 30 | 1 28 | 9 52 | 1 1 | 15 5 | 2 18 | 18 22 | 0 13 | 8 7 | 0 59 | 24 2 | 2 55 | 0 57 | 0 19 | 27 16 | 15 48 | 4 15 |
| T 31 | 17s19 | 13s 9 | 2s36 | 18s59 | 2s 3 | 21s56 | 0s19 | 17n39 | 1n28 | 9s47 | 1s 1 | 15s 5 | 2n19 | 18n22 | 0s13 | 8s 6 | 0s59 | 24n 3 | 2n55 | 0s56 | 0s21 | 27s17 | 15n48 | 4s15 |

Julian Day Number = 2338320.5, Delta T = 18.42 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'47, Lahiri = 19°31'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## FEBRUARY 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 46 22 | 12♒41'07 | 9♏59 | 14♒29 | 23♑38 | 15♉ 7 | 7♓34 | 18♏20 | 23♉ 5 | 11♓44 | 24°R59 | 27°R40 | 29♓ 5 | 13♐ 2 | 28°R55 | W 1 |
| T 2 | 8 50 18 | 13°41'55 | 21°56 | 16°16 | 24°53 | 15°37 | 7°48 | 18°22 | 23° 5 | 11°46 | 24♋58 | 27♓39 | 29° 2 | 13° 9 | 28♉55 | T 2 |
| F 3 | 8 54 15 | 14°42'42 | 3♐48 | 18° 3 | 26° 8 | 16° 7 | 8° 2 | 18°25 | 23° 6 | 11°48 | 24°57 | 27°37 | 28°59 | 13°16 | 28°55 | F 3 |
| S 4 | 8 58 11 | 15°43'27 | 15°39 | 19°51 | 27°23 | 16°38 | 8°16 | 18°27 | 23° 6 | 11°50 | 24°55 | 27°33 | 28°56 | 13°23 | 28°D55 | S 4 |
| S 5 | 9 2 8 | 16°44'12 | 27°33 | 21°40 | 28°38 | 17° 8 | 8°30 | 18°29 | 23° 6 | 11°52 | 24°54 | 27°27 | 28°53 | 13°29 | 28°55 | S 5 |
| M 6 | 9 6 4 | 17°44'56 | 9♑35 | 23°29 | 29°53 | 17°39 | 8°44 | 18°31 | 23° 6 | 11°54 | 24°53 | 27°20 | 28°49 | 13°36 | 28°55 | M 6 |
| T 7 | 9 10 1 | 18°45'38 | 21°46 | 25°18 | 1♒ 8 | 18°10 | 8°58 | 18°33 | 23° 7 | 11°56 | 24°52 | 27°13 | 28°46 | 13°43 | 28°55 | T 7 |
| W 8 | 9 13 57 | 19°46'20 | 4♒ 9 | 27° 8 | 2°23 | 18°41 | 9°12 | 18°35 | 23° 7 | 11°58 | 24°50 | 27° 6 | 28°43 | 13°49 | 28°55 | W 8 |
| T 9 | 9 17 54 | 20°46'59 | 16°45 | 28°58 | 3°38 | 19°12 | 9°26 | 18°37 | 23° 8 | 12° 1 | 24°49 | 27° 0 | 28°40 | 13°56 | 28°56 | T 9 |
| F 10 | 9 21 51 | 21°47'38 | 29°34 | 0♓48 | 4°53 | 19°44 | 9°40 | 18°38 | 23° 8 | 12° 3 | 24°48 | 26°55 | 28°37 | 14° 3 | 28°56 | F 10 |
| S 11 | 9 25 47 | 22°48'14 | 12♓35 | 2°38 | 6° 7 | 20°15 | 9°54 | 18°40 | 23° 9 | 12° 5 | 24°47 | 26°52 | 28°33 | 14°10 | 28°57 | S 11 |
| S 12 | 9 29 44 | 23°48'49 | 25°48 | 4°28 | 7°22 | 20°47 | 10° 9 | 18°41 | 23° 9 | 12° 7 | 24°46 | 26°D51 | 28°30 | 14°16 | 28°57 | S 12 |
| M13 | 9 33 40 | 24°49'23 | 9♈12 | 6°17 | 8°37 | 21°18 | 10°23 | 18°43 | 23°10 | 12° 9 | 24°45 | 26°52 | 28°27 | 14°23 | 28°58 | M13 |
| T 14 | 9 37 37 | 25°49'54 | 22°48 | 8° 5 | 9°52 | 21°50 | 10°37 | 18°44 | 23°11 | 12°11 | 24°44 | 26°53 | 28°24 | 14°30 | 28°58 | T 14 |
| W15 | 9 41 33 | 26°50'24 | 6♉35 | 9°52 | 11° 7 | 22°22 | 10°52 | 18°45 | 23°12 | 12°14 | 24°42 | 26°55 | 28°21 | 14°36 | 28°59 | W15 |
| T 16 | 9 45 30 | 27°50'52 | 20°33 | 11°38 | 12°22 | 22°54 | 11° 6 | 18°46 | 23°13 | 12°16 | 24°41 | 26°56 | 28°18 | 14°43 | 29° 0 | T 16 |
| F 17 | 9 49 26 | 28°51'18 | 4♊40 | 13°22 | 13°37 | 23°26 | 11°20 | 18°47 | 23°14 | 12°18 | 24°40 | 26°R56 | 28°14 | 14°50 | 29° 1 | F 17 |
| S 18 | 9 53 23 | 29°51'42 | 18°55 | 15° 3 | 14°51 | 23°59 | 11°35 | 18°48 | 23°14 | 12°20 | 24°39 | 26°55 | 28°11 | 14°57 | 29° 2 | S 18 |
| S 19 | 9 57 20 | 0♓52'05 | 3♋17 | 16°41 | 16° 6 | 24°31 | 11°49 | 18°49 | 23°15 | 12°23 | 24°38 | 26°52 | 28° 8 | 15° 3 | 29° 3 | S 19 |
| M20 | 10 1 16 | 1°52'25 | 17°40 | 18°16 | 17°21 | 25° 4 | 12° 3 | 18°49 | 23°17 | 12°25 | 24°37 | 26°49 | 28° 5 | 15°10 | 29° 4 | M20 |
| T 21 | 10 5 13 | 2°52'43 | 2♌ 1 | 19°47 | 18°36 | 25°36 | 12°18 | 18°50 | 23°18 | 12°27 | 24°36 | 26°45 | 28° 2 | 15°17 | 29° 5 | T 21 |
| W22 | 10 9 9 | 3°52'59 | 16°14 | 21°13 | 19°51 | 26° 9 | 12°32 | 18°50 | 23°19 | 12°29 | 24°35 | 26°42 | 27°59 | 15°23 | 29° 6 | W22 |
| T 23 | 10 13 6 | 4°53'14 | 0♍14 | 22°34 | 21° 6 | 26°42 | 12°47 | 18°51 | 23°20 | 12°32 | 24°34 | 26°39 | 27°55 | 15°30 | 29° 8 | T 23 |
| F 24 | 10 17 2 | 5°53'26 | 13°58 | 23°50 | 22°20 | 27°15 | 13° 1 | 18°51 | 23°21 | 12°34 | 24°33 | 26°38 | 27°52 | 15°37 | 29° 9 | F 24 |
| S 25 | 10 20 59 | 6°53'37 | 27°22 | 24°58 | 23°35 | 27°48 | 13°16 | 18°51 | 23°23 | 12°36 | 24°32 | 26°D37 | 27°49 | 15°44 | 29°11 | S 25 |
| S 26 | 10 24 55 | 7°53'46 | 10♎26 | 26° 0 | 24°50 | 28°21 | 13°30 | 18°R51 | 23°24 | 12°38 | 24°31 | 26°38 | 27°46 | 15°50 | 29°12 | S 26 |
| M27 | 10 28 52 | 8°53'53 | 23° 9 | 26°54 | 26° 5 | 28°54 | 13°45 | 18°51 | 23°25 | 12°41 | 24°30 | 26°39 | 27°43 | 15°57 | 29°14 | M27 |
| T 28 | 10 32 49 | 9♓53'59 | 5♏35 | 27♓40 | 27♒19 | 29♉27 | 13♓59 | 18♏51 | 23♉27 | 12♓43 | 24♋29 | 26♓41 | 27♓39 | 16♐ 4 | 29♉15 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s 2 | 18s 8 | 3s29 | 18s27 | 2s 2 | 21s46 | 0s22 | 17n49 | 1n29 | 9s41 | 1s 1 | 15s 6 | 2n19 | 18n22 | 0s13 | 8s 5 | 0s59 | 24n 3 | 2n55 | 0s56 | 0s22 | 27s19 | 15n48 | 4s15 |
| T 2 | 16 45 | 22 19 | 4 11 | 17 54 | 2 0 | 21 35 | 0 24 | 17 58 | 1 29 | 9 36 | 1 1 | 15 6 | 2 19 | 18 22 | 0 13 | 8 4 | 0 59 | 24 3 | 2 55 | 0 56 | 0 23 | 27 20 | 15 48 | 4 15 |
| F 3 | 16 27 | 25 35 | 4 43 | 17 19 | 1 58 | 21 24 | 0 27 | 18 7 | 1 29 | 9 31 | 1 1 | 15 6 | 2 19 | 18 22 | 0 13 | 8 4 | 0 59 | 24 3 | 2 55 | 0 57 | 0 24 | 27 21 | 15 49 | 4 15 |
| S 4 | 16 9 | 27 43 | 5 2 | 16 42 | 1 55 | 21 12 | 0 29 | 18 16 | 1 30 | 9 26 | 1 1 | 15 7 | 2 19 | 18 22 | 0 13 | 8 3 | 0 59 | 24 4 | 2 56 | 0 58 | 0 26 | 27 22 | 15 49 | 4 14 |
| S 5 | 15 51 | 28 37 | 5 9 | 16 4 | 1 51 | 20 59 | 0 31 | 18 25 | 1 30 | 9 20 | 1 1 | 15 7 | 2 20 | 18 22 | 0 13 | 8 2 | 0 59 | 24 4 | 2 56 | 1 1 | 0 27 | 27 23 | 15 49 | 4 14 |
| M 6 | 15 32 | 28 9 | 5 2 | 15 24 | 1 47 | 20 46 | 0 34 | 18 34 | 1 30 | 9 15 | 1 1 | 15 8 | 2 20 | 18 22 | 0 13 | 8 1 | 0 59 | 24 4 | 2 56 | 1 4 | 0 28 | 27 24 | 15 49 | 4 14 |
| T 7 | 15 14 | 26 21 | 4 41 | 14 43 | 1 43 | 20 32 | 0 36 | 18 43 | 1 30 | 9 10 | 1 1 | 15 8 | 2 20 | 18 22 | 0 13 | 8 0 | 0 59 | 24 4 | 2 56 | 1 7 | 0 29 | 27 25 | 15 49 | 4 14 |
| W 8 | 14 55 | 23 15 | 4 7 | 14 1 | 1 37 | 20 17 | 0 38 | 18 52 | 1 31 | 9 5 | 1 1 | 15 8 | 2 20 | 18 22 | 0 13 | 8 0 | 0 59 | 24 5 | 2 56 | 1 9 | 0 31 | 27 26 | 15 50 | 4 14 |
| T 9 | 14 36 | 19 2 | 3 21 | 13 17 | 1 32 | 20 2 | 0 41 | 19 1 | 1 31 | 8 59 | 1 1 | 15 9 | 2 21 | 18 23 | 0 13 | 7 59 | 0 59 | 24 5 | 2 56 | 1 12 | 0 32 | 27 27 | 15 50 | 4 13 |
| F 10 | 14 16 | 13 53 | 2 23 | 12 32 | 1 25 | 19 46 | 0 43 | 19 10 | 1 31 | 8 54 | 1 1 | 15 9 | 2 21 | 18 23 | 0 13 | 7 58 | 0 59 | 24 5 | 2 56 | 1 14 | 0 33 | 27 28 | 15 50 | 4 13 |
| S 11 | 13 56 | 8 2 | 1 17 | 11 46 | 1 18 | 19 30 | 0 45 | 19 19 | 1 31 | 8 48 | 1 1 | 15 9 | 2 21 | 18 23 | 0 13 | 7 57 | 0 59 | 24 5 | 2 56 | 1 15 | 0 34 | 27 29 | 15 51 | 4 13 |
| S 12 | 13 36 | 1 46 | 0 6 | 10 59 | 1 10 | 19 13 | 0 47 | 19 27 | 1 32 | 8 43 | 1 1 | 15 9 | 2 21 | 18 23 | 0 13 | 7 56 | 0 59 | 24 6 | 2 56 | 1 15 | 0 36 | 27 30 | 15 51 | 4 13 |
| M13 | 13 16 | 4n41 | 1n 7 | 10 11 | 1 2 | 18 56 | 0 49 | 19 36 | 1 32 | 8 38 | 1 1 | 15 9 | 2 21 | 18 23 | 0 13 | 7 55 | 0 59 | 24 6 | 2 56 | 1 15 | 0 37 | 27 31 | 15 51 | 4 13 |
| T 14 | 12 56 | 11 0 | 2 17 | 9 22 | 0 52 | 18 38 | 0 51 | 19 44 | 1 32 | 8 32 | 1 1 | 15 10 | 2 22 | 18 24 | 0 13 | 7 55 | 0 59 | 24 6 | 2 56 | 1 14 | 0 38 | 27 32 | 15 52 | 4 12 |
| W15 | 12 35 | 16 53 | 3 20 | 8 32 | 0 43 | 18 19 | 0 53 | 19 53 | 1 32 | 8 27 | 1 1 | 15 10 | 2 22 | 18 24 | 0 13 | 7 54 | 0 59 | 24 6 | 2 56 | 1 14 | 0 40 | 27 33 | 15 52 | 4 12 |
| T 16 | 12 15 | 21 58 | 4 12 | 7 42 | 0 32 | 18 0 | 0 55 | 20 1 | 1 32 | 8 21 | 1 1 | 15 10 | 2 22 | 18 24 | 0 13 | 7 53 | 0 59 | 24 7 | 2 56 | 1 13 | 0 41 | 27 34 | 15 52 | 4 12 |
| F 17 | 11 54 | 25 52 | 4 50 | 6 52 | 0 21 | 17 41 | 0 57 | 20 10 | 1 33 | 8 16 | 1 1 | 15 10 | 2 22 | 18 24 | 0 13 | 7 52 | 0 59 | 24 7 | 2 56 | 1 13 | 0 42 | 27 35 | 15 53 | 4 12 |
| S 18 | 11 32 | 28 10 | 5 10 | 6 2 | 0 9 | 17 20 | 0 59 | 20 18 | 1 33 | 8 10 | 1 1 | 15 10 | 2 22 | 18 25 | 0 13 | 7 51 | 0 59 | 24 7 | 2 56 | 1 14 | 0 43 | 27 36 | 15 53 | 4 12 |
| S 19 | 11 11 | 28 38 | 5 11 | 5 13 | 0n 3 | 17 0 | 1 0 | 20 26 | 1 33 | 8 5 | 1 1 | 15 10 | 2 23 | 18 25 | 0 13 | 7 50 | 0 59 | 24 7 | 2 56 | 1 15 | 0 45 | 27 37 | 15 53 | 4 11 |
| M20 | 10 50 | 27 9 | 4 53 | 4 24 | 0 16 | 16 39 | 1 2 | 20 34 | 1 33 | 7 59 | 1 1 | 15 10 | 2 23 | 18 25 | 0 13 | 7 49 | 0 59 | 24 7 | 2 56 | 1 16 | 0 46 | 27 38 | 15 54 | 4 11 |
| T 21 | 10 28 | 23 54 | 4 16 | 3 36 | 0 30 | 16 17 | 1 4 | 20 42 | 1 33 | 7 54 | 1 1 | 15 10 | 2 23 | 18 25 | 0 13 | 7 49 | 0 59 | 24 8 | 2 56 | 1 18 | 0 47 | 27 39 | 15 54 | 4 11 |
| W22 | 10 6 | 19 15 | 3 24 | 2 49 | 0 43 | 15 55 | 1 5 | 20 50 | 1 33 | 7 48 | 1 1 | 15 10 | 2 23 | 18 26 | 0 13 | 7 48 | 0 59 | 24 8 | 2 56 | 1 19 | 0 48 | 27 40 | 15 55 | 4 11 |
| T 23 | 9 44 | 13 36 | 2 20 | 2 4 | 0 58 | 15 33 | 1 7 | 20 58 | 1 33 | 7 43 | 1 1 | 15 9 | 2 23 | 18 26 | 0 13 | 7 47 | 0 59 | 24 8 | 2 56 | 1 20 | 0 50 | 27 41 | 15 55 | 4 10 |
| F 24 | 9 22 | 7 23 | 1 9 | 1 21 | 1 12 | 15 10 | 1 9 | 21 6 | 1 34 | 7 37 | 1 1 | 15 9 | 2 24 | 18 26 | 0 13 | 7 46 | 0 59 | 24 8 | 2 56 | 1 20 | 0 51 | 27 42 | 15 56 | 4 10 |
| S 25 | 9 0 | 0 59 | 0s 4 | 0 41 | 1 26 | 14 47 | 1 10 | 21 13 | 1 34 | 7 32 | 1 1 | 15 9 | 2 24 | 18 27 | 0 13 | 7 45 | 0 59 | 24 8 | 2 56 | 1 21 | 0 52 | 27 43 | 15 56 | 4 10 |
| S 26 | 8 37 | 5s17 | 1 15 | 0 3 | 1 41 | 14 23 | 1 11 | 21 21 | 1 34 | 7 26 | 1 1 | 15 9 | 2 24 | 18 27 | 0 13 | 7 44 | 0 59 | 24 9 | 2 56 | 1 20 | 0 53 | 27 44 | 15 57 | 4 10 |
| M27 | 8 15 | 11 12 | 2 21 | 0n32 | 1 55 | 13 59 | 1 13 | 21 28 | 1 34 | 7 21 | 1 1 | 15 9 | 2 24 | 18 27 | 0 13 | 7 43 | 0 59 | 24 9 | 2 56 | 1 20 | 0 55 | 27 45 | 15 57 | 4 10 |
| T 28 | 7s52 | 16s32 | 3s19 | 1n 3 | 2n 9 | 13s35 | 1s14 | 21n36 | 1n34 | 7s15 | 1s 1 | 15s 8 | 2n25 | 18n28 | 0s13 | 7s43 | 0s59 | 24n 9 | 2n56 | 1s19 | 0s56 | 27s46 | 15n58 | 4s 9 |

Julian Day Number = 2338351.5, Delta T = 18.37 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'51, Lahiri = 19°31'52Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## MARCH 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 10 36 45 | 10♓54'03 | 17♏46 | 28♓18 | 28♒34 | 0♊ 0 | 14♓14 | 18°R50 | 23♉28 | 12♓45 | 24°R29 | 26♓42 | 27♓36 | 16♐11 | 29♉17 | W 1 |
| T 2 | 10 40 42 | 11°54'06 | 29°46 | 28°47 | 29°49 | 0°34 | 14°28 | 18♏50 | 23°30 | 12°47 | 24♋28 | 26°43 | 27°33 | 16°17 | 29°19 | T 2 |
| F 3 | 10 44 38 | 12°54'07 | 11♐41 | 29° 7 | 1♈ 4 | 1° 7 | 14°43 | 18°50 | 23°32 | 12°50 | 24°27 | 26°R43 | 27°30 | 16°24 | 29°21 | F 3 |
| S 4 | 10 48 35 | 13°54'06 | 23°33 | 29°18 | 2°18 | 1°40 | 14°57 | 18°49 | 23°33 | 12°52 | 24°26 | 26°43 | 27°27 | 16°31 | 29°23 | S 4 |
| S 5 | 10 52 31 | 14°54'04 | 5♑29 | 29°R20 | 3°33 | 2°14 | 15°12 | 18°48 | 23°35 | 12°54 | 24°25 | 26°42 | 27°24 | 16°37 | 29°25 | S 5 |
| M 6 | 10 56 28 | 15°54'00 | 17°32 | 29°14 | 4°48 | 2°48 | 15°26 | 18°48 | 23°37 | 12°57 | 24°25 | 26°41 | 27°20 | 16°44 | 29°27 | M 6 |
| T 7 | 11 0 24 | 16°53'54 | 29°47 | 28°58 | 6° 3 | 3°21 | 15°41 | 18°47 | 23°38 | 12°59 | 24°24 | 26°40 | 27°17 | 16°51 | 29°29 | T 7 |
| W 8 | 11 4 21 | 17°53'46 | 12♒17 | 28°35 | 7°17 | 3°55 | 15°55 | 18°46 | 23°40 | 13° 1 | 24°23 | 26°38 | 27°14 | 16°58 | 29°31 | W 8 |
| T 9 | 11 8 18 | 18°53'37 | 25° 4 | 28° 4 | 8°32 | 4°29 | 16°10 | 18°45 | 23°42 | 13° 3 | 24°22 | 26°37 | 27°11 | 17° 4 | 29°33 | T 9 |
| F 10 | 11 12 14 | 19°53'25 | 8♓ 8 | 27°26 | 9°47 | 5° 3 | 16°25 | 18°43 | 23°44 | 13° 6 | 24°22 | 26°37 | 27° 8 | 17°11 | 29°36 | F 10 |
| S 11 | 11 16 11 | 20°53'12 | 21°30 | 26°43 | 11° 1 | 5°37 | 16°39 | 18°42 | 23°46 | 13° 8 | 24°21 | 26°D36 | 27° 4 | 17°18 | 29°38 | S 11 |
| S 12 | 11 20 7 | 21°52'57 | 5♈ 8 | 25°55 | 12°16 | 6°11 | 16°54 | 18°41 | 23°48 | 13°10 | 24°20 | 26°36 | 27° 1 | 17°24 | 29°41 | S 12 |
| M13 | 11 24 4 | 22°52'39 | 19° 0 | 25° 4 | 13°31 | 6°45 | 17° 8 | 18°39 | 23°50 | 13°12 | 24°20 | 26°37 | 26°58 | 17°31 | 29°43 | M13 |
| T 14 | 11 28 0 | 23°52'20 | 3♉ 3 | 24°10 | 14°45 | 7°20 | 17°23 | 18°38 | 23°52 | 13°15 | 24°19 | 26°37 | 26°55 | 17°38 | 29°46 | T 14 |
| W15 | 11 31 57 | 24°51'58 | 17°14 | 23°15 | 16° 0 | 7°54 | 17°37 | 18°36 | 23°54 | 13°17 | 24°19 | 26°37 | 26°52 | 17°45 | 29°48 | W15 |
| T 16 | 11 35 53 | 25°51'34 | 1♊28 | 22°19 | 17°14 | 8°28 | 17°51 | 18°34 | 23°56 | 13°19 | 24°18 | 26°37 | 26°49 | 17°51 | 29°51 | T 16 |
| F 17 | 11 39 50 | 26°51'08 | 15°43 | 21°25 | 18°29 | 9° 3 | 18° 6 | 18°32 | 23°59 | 13°21 | 24°18 | 26°R37 | 26°45 | 17°58 | 29°54 | F 17 |
| S 18 | 11 43 46 | 27°50'40 | 29°56 | 20°34 | 19°44 | 9°37 | 18°20 | 18°30 | 24° 1 | 13°24 | 24°17 | 26°D37 | 26°42 | 18° 5 | 29°57 | S 18 |
| S 19 | 11 47 43 | 28°50'09 | 14♋ 5 | 19°45 | 20°58 | 10°11 | 18°35 | 18°28 | 24° 3 | 13°26 | 24°17 | 26°37 | 26°39 | 18°11 | 29°59 | S 19 |
| M20 | 11 51 40 | 29°49'36 | 28° 8 | 19° 0 | 22°13 | 10°46 | 18°49 | 18°26 | 24° 6 | 13°28 | 24°16 | 26°37 | 26°36 | 18°18 | 0♊ 2 | M20 |
| T 21 | 11 55 36 | 0♈49'00 | 12♌ 1 | 18°19 | 23°27 | 11°21 | 19° 4 | 18°24 | 24° 8 | 13°30 | 24°16 | 26°38 | 26°33 | 18°25 | 0° 5 | T 21 |
| W22 | 11 59 33 | 1°48'22 | 25°45 | 17°44 | 24°42 | 11°55 | 19°18 | 18°22 | 24°10 | 13°32 | 24°15 | 26°38 | 26°30 | 18°32 | 0° 8 | W22 |
| T 23 | 12 3 29 | 2°47'42 | 9♍17 | 17°14 | 25°56 | 12°30 | 19°32 | 18°19 | 24°13 | 13°35 | 24°15 | 26°39 | 26°26 | 18°38 | 0°12 | T 23 |
| F 24 | 12 7 26 | 3°46'59 | 22°36 | 16°50 | 27°11 | 13° 5 | 19°47 | 18°17 | 24°15 | 13°37 | 24°15 | 26°R39 | 26°23 | 18°45 | 0°15 | F 24 |
| S 25 | 12 11 22 | 4°46'15 | 5♎40 | 16°31 | 28°25 | 13°39 | 20° 1 | 18°14 | 24°18 | 13°39 | 24°14 | 26°39 | 26°20 | 18°52 | 0°18 | S 25 |
| S 26 | 12 15 19 | 5°45'28 | 18°30 | 16°18 | 29°40 | 14°14 | 20°15 | 18°11 | 24°20 | 13°41 | 24°14 | 26°38 | 26°17 | 18°59 | 0°21 | S 26 |
| M27 | 12 19 15 | 6°44'40 | 1♏ 5 | 16°11 | 0♈54 | 14°49 | 20°29 | 18° 9 | 24°23 | 13°43 | 24°14 | 26°37 | 26°14 | 19° 5 | 0°25 | M27 |
| T 28 | 12 23 12 | 7°43'49 | 13°27 | 16°D10 | 2° 9 | 15°24 | 20°44 | 18° 6 | 24°26 | 13°45 | 24°14 | 26°36 | 26°10 | 19°12 | 0°28 | T 28 |
| W29 | 12 27 9 | 8°42'57 | 25°37 | 16°14 | 3°23 | 15°59 | 20°58 | 18° 3 | 24°28 | 13°47 | 24°13 | 26°34 | 26° 7 | 19°19 | 0°31 | W29 |
| T 30 | 12 31 5 | 9°42'02 | 7♐37 | 16°23 | 4°37 | 16°34 | 21°12 | 18° 0 | 24°31 | 13°50 | 24°13 | 26°32 | 26° 4 | 19°25 | 0°35 | T 30 |
| F 31 | 12 35 2 | 10♈41'06 | 19♐32 | 16♓38 | 5♈52 | 17♊ 9 | 21♓26 | 17♏57 | 24♉34 | 13♓52 | 24♋13 | 26♓31 | 26♓ 1 | 19♐32 | 0♊38 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 7s29 | 21s 6 | 4s 6 | 1n30 | 2n23 | 13s10 | 1s15 | 21n43 | 1n34 | 7s 9 | 1s 1 | 15s 8 | 2n25 | 18n28 | 0s13 | 7s42 | 0s59 | 24n 9 | 2n56 | 1s19 | 0s57 | 27s47 | 15n58 | 4s 9 |
| T 2 | 7 7 | 24 43 | 4 42 | 1 54 | 2 36 | 12 45 | 1 16 | 21 50 | 1 34 | 7 4 | 1 1 | 15 8 | 2 25 | 18 29 | 0 13 | 7 41 | 0 59 | 24 9 | 2 56 | 1 18 | 0 59 | 27 48 | 15 59 | 4 9 |
| F 3 | 6 44 | 27 16 | 5 5 | 2 13 | 2 48 | 12 19 | 1 18 | 21 57 | 1 34 | 6 58 | 1 1 | 15 8 | 2 25 | 18 29 | 0 13 | 7 40 | 0 59 | 24 9 | 2 56 | 1 18 | 1 0 | 27 49 | 16 0 | 4 9 |
| S 4 | 6 21 | 28 35 | 5 16 | 2 27 | 2 59 | 11 54 | 1 19 | 22 4 | 1 34 | 6 53 | 1 1 | 15 7 | 2 25 | 18 29 | 0 13 | 7 39 | 0 59 | 24 10 | 2 56 | 1 18 | 1 1 | 27 49 | 16 0 | 4 9 |
| S 5 | 5 57 | 28 34 | 5 12 | 2 37 | 3 9 | 11 27 | 1 20 | 22 11 | 1 34 | 6 47 | 1 1 | 15 7 | 2 26 | 18 30 | 0 13 | 7 38 | 0 59 | 24 10 | 2 56 | 1 19 | 1 2 | 27 50 | 16 1 | 4 9 |
| M 6 | 5 34 | 27 13 | 4 55 | 2 43 | 3 18 | 11 1 | 1 21 | 22 18 | 1 34 | 6 41 | 1 1 | 15 6 | 2 26 | 18 30 | 0 13 | 7 37 | 0 59 | 24 10 | 2 56 | 1 19 | 1 4 | 27 51 | 16 1 | 4 8 |
| T 7 | 5 11 | 24 33 | 4 25 | 2 43 | 3 25 | 10 34 | 1 21 | 22 24 | 1 34 | 6 36 | 1 1 | 15 6 | 2 26 | 18 31 | 0 13 | 7 36 | 0 59 | 24 10 | 2 56 | 1 20 | 1 5 | 27 52 | 16 2 | 4 8 |
| W 8 | 4 48 | 20 41 | 3 41 | 2 39 | 3 31 | 10 7 | 1 22 | 22 31 | 1 34 | 6 30 | 1 1 | 15 6 | 2 26 | 18 31 | 0 13 | 7 36 | 0 59 | 24 10 | 2 56 | 1 20 | 1 6 | 27 53 | 16 3 | 4 8 |
| T 9 | 4 24 | 15 48 | 2 46 | 2 31 | 3 35 | 9 40 | 1 23 | 22 37 | 1 34 | 6 25 | 1 1 | 15 5 | 2 26 | 18 32 | 0 13 | 7 35 | 0 59 | 24 10 | 2 56 | 1 21 | 1 7 | 27 54 | 16 3 | 4 8 |
| F 10 | 4 1 | 10 5 | 1 41 | 2 18 | 3 37 | 9 12 | 1 24 | 22 43 | 1 34 | 6 19 | 1 1 | 15 5 | 2 27 | 18 32 | 0 12 | 7 34 | 0 59 | 24 10 | 2 56 | 1 21 | 1 9 | 27 54 | 16 4 | 4 8 |
| S 11 | 3 37 | 3 49 | 0 28 | 2 1 | 3 37 | 8 45 | 1 24 | 22 50 | 1 34 | 6 13 | 1 1 | 15 4 | 2 27 | 18 33 | 0 12 | 7 33 | 0 59 | 24 11 | 2 56 | 1 21 | 1 10 | 27 55 | 16 5 | 4 7 |
| S 12 | 3 14 | 2n46 | 0n47 | 1 40 | 3 35 | 8 17 | 1 25 | 22 56 | 1 34 | 6 8 | 1 1 | 15 3 | 2 27 | 18 33 | 0 12 | 7 32 | 0 59 | 24 11 | 2 56 | 1 21 | 1 11 | 27 56 | 16 5 | 4 7 |
| M13 | 2 50 | 9 19 | 2 1 | 1 16 | 3 32 | 7 48 | 1 25 | 23 2 | 1 34 | 6 2 | 1 2 | 15 3 | 2 27 | 18 34 | 0 12 | 7 31 | 0 59 | 24 11 | 2 56 | 1 21 | 1 12 | 27 57 | 16 6 | 4 7 |
| T 14 | 2 26 | 15 30 | 3 9 | 0 50 | 3 26 | 7 20 | 1 26 | 23 7 | 1 34 | 5 56 | 1 2 | 15 2 | 2 27 | 18 34 | 0 12 | 7 30 | 0 59 | 24 11 | 2 56 | 1 21 | 1 14 | 27 58 | 16 7 | 4 7 |
| W15 | 2 3 | 20 55 | 4 5 | 0 21 | 3 19 | 6 51 | 1 26 | 23 13 | 1 34 | 5 51 | 1 2 | 15 2 | 2 27 | 18 35 | 0 12 | 7 30 | 0 59 | 24 11 | 2 56 | 1 21 | 1 15 | 27 58 | 16 8 | 4 7 |
| T 16 | 1 39 | 25 10 | 4 47 | 0s 9 | 3 9 | 6 22 | 1 26 | 23 18 | 1 34 | 5 45 | 1 2 | 15 1 | 2 28 | 18 35 | 0 12 | 7 29 | 0 59 | 24 11 | 2 56 | 1 21 | 1 16 | 27 59 | 16 8 | 4 7 |
| F 17 | 1 15 | 27 52 | 5 11 | 0 40 | 2 59 | 5 53 | 1 27 | 23 24 | 1 34 | 5 40 | 1 2 | 15 0 | 2 28 | 18 36 | 0 12 | 7 28 | 0 59 | 24 11 | 2 56 | 1 21 | 1 18 | 28 0 | 16 9 | 4 6 |
| S 18 | 0 52 | 28 45 | 5 16 | 1 11 | 2 47 | 5 24 | 1 27 | 23 29 | 1 34 | 5 34 | 1 2 | 15 0 | 2 28 | 18 37 | 0 12 | 7 27 | 0 59 | 24 11 | 2 56 | 1 21 | 1 19 | 28 1 | 16 10 | 4 6 |
| S 19 | 0 28 | 27 45 | 5 2 | 1 43 | 2 34 | 4 55 | 1 27 | 23 34 | 1 34 | 5 28 | 1 2 | 14 59 | 2 28 | 18 37 | 0 12 | 7 26 | 0 59 | 24 11 | 2 56 | 1 21 | 1 20 | 28 2 | 16 11 | 4 6 |
| M20 | 0 4 | 24 59 | 4 30 | 2 13 | 2 20 | 4 25 | 1 27 | 23 39 | 1 34 | 5 23 | 1 2 | 14 58 | 2 28 | 18 38 | 0 12 | 7 25 | 0 59 | 24 11 | 2 56 | 1 21 | 1 21 | 28 2 | 16 11 | 4 6 |
| T 21 | 0n20 | 20 47 | 3 43 | 2 42 | 2 5 | 3 56 | 1 27 | 23 44 | 1 34 | 5 17 | 1 2 | 14 57 | 2 29 | 18 38 | 0 12 | 7 25 | 0 59 | 24 12 | 2 56 | 1 21 | 1 23 | 28 3 | 16 12 | 4 6 |
| W22 | 0 43 | 15 31 | 2 43 | 3 10 | 1 50 | 3 26 | 1 27 | 23 49 | 1 34 | 5 12 | 1 2 | 14 57 | 2 29 | 18 39 | 0 12 | 7 24 | 0 59 | 24 12 | 2 56 | 1 20 | 1 24 | 28 4 | 16 13 | 4 6 |
| T 23 | 1 7 | 9 34 | 1 35 | 3 36 | 1 35 | 2 56 | 1 27 | 23 53 | 1 34 | 5 6 | 1 2 | 14 56 | 2 29 | 18 40 | 0 12 | 7 23 | 0 59 | 24 12 | 2 56 | 1 20 | 1 25 | 28 4 | 16 14 | 4 5 |
| F 24 | 1 30 | 3 17 | 0 22 | 4 0 | 1 19 | 2 27 | 1 26 | 23 58 | 1 34 | 5 1 | 1 2 | 14 55 | 2 29 | 18 40 | 0 12 | 7 22 | 0 59 | 24 12 | 2 56 | 1 20 | 1 26 | 28 5 | 16 14 | 4 5 |
| S 25 | 1 54 | 3s 1 | 0s50 | 4 21 | 1 3 | 1 57 | 1 26 | 24 2 | 1 34 | 4 55 | 1 2 | 14 54 | 2 29 | 18 41 | 0 12 | 7 21 | 0 59 | 24 12 | 2 56 | 1 20 | 1 28 | 28 6 | 16 15 | 4 5 |
| S 26 | 2 17 | 9 5 | 1 58 | 4 41 | 0 48 | 1 27 | 1 26 | 24 6 | 1 34 | 4 49 | 1 2 | 14 53 | 2 29 | 18 42 | 0 12 | 7 20 | 0 59 | 24 12 | 2 56 | 1 20 | 1 29 | 28 7 | 16 16 | 4 5 |
| M27 | 2 41 | 14 40 | 2 59 | 4 57 | 0 33 | 0 57 | 1 25 | 24 10 | 1 34 | 4 44 | 1 2 | 14 52 | 2 29 | 18 42 | 0 12 | 7 20 | 0 59 | 24 12 | 2 56 | 1 21 | 1 30 | 28 7 | 16 17 | 4 5 |
| T 28 | 3 4 | 19 34 | 3 51 | 5 12 | 0 18 | 0 27 | 1 25 | 24 14 | 1 34 | 4 38 | 1 3 | 14 51 | 2 30 | 18 43 | 0 12 | 7 19 | 0 59 | 24 12 | 2 56 | 1 21 | 1 31 | 28 8 | 16 18 | 4 5 |
| W29 | 3 28 | 23 35 | 4 31 | 5 23 | 0 3 | 0n 4 | 1 24 | 24 18 | 1 34 | 4 33 | 1 3 | 14 50 | 2 30 | 18 44 | 0 12 | 7 18 | 1 0 | 24 12 | 2 56 | 1 22 | 1 33 | 28 9 | 16 18 | 4 5 |
| T 30 | 3 51 | 26 32 | 4 59 | 5 33 | 0s11 | 0 34 | 1 24 | 24 21 | 1 34 | 4 27 | 1 3 | 14 49 | 2 30 | 18 44 | 0 12 | 7 17 | 1 0 | 24 12 | 2 56 | 1 23 | 1 34 | 28 9 | 16 19 | 4 4 |
| F 31 | 4n14 | 28s16 | 5s13 | 5s39 | 0s24 | 1n 4 | 1s23 | 24n25 | 1n33 | 4s22 | 1s 3 | 14s48 | 2n30 | 18n45 | 0s12 | 7s17 | 1s 0 | 24n12 | 2n56 | 1s23 | 1s35 | 28s10 | 16n20 | 4s 4 |

Julian Day Number = 2338379.5, Delta T = 18.34 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'55, Lahiri = 19°31'55Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## APRIL 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 38 58 | 11♈40'09 | 1♉25 | 16♓58 | 7♈ 6 | 17♊44 | 21♓40 | 17°R54 | 24♉36 | 13♓54 | 24°R13 | 26°R30 | 25♓58 | 19♐39 | 0♊42 | S 1 |
| S 2 | 12 42 55 | 12°39'09 | 13°20 | 17°22 | 8°21 | 18°19 | 21°54 | 17♏51 | 24°39 | 13°56 | 24♋13 | 26°D30 | 25°55 | 19°46 | 0°45 | S 2 |
| M 3 | 12 46 51 | 13°38'08 | 25°23 | 17°51 | 9°35 | 18°54 | 22° 8 | 17°47 | 24°42 | 13°58 | 24°13 | 26♓30 | 25°51 | 19°52 | 0°49 | M 3 |
| T 4 | 12 50 48 | 14°37'05 | 7♒37 | 18°24 | 10°49 | 19°29 | 22°22 | 17°44 | 24°45 | 14° 0 | 24°13 | 26°31 | 25°48 | 19°59 | 0°53 | T 4 |
| W 5 | 12 54 44 | 15°36'00 | 20° 8 | 19° 1 | 12° 4 | 20° 4 | 22°36 | 17°41 | 24°48 | 14° 2 | 24°12 | 26°32 | 25°45 | 20° 6 | 0°57 | W 5 |
| T 6 | 12 58 41 | 16°34'53 | 2♓58 | 19°43 | 13°18 | 20°40 | 22°50 | 17°37 | 24°51 | 14° 4 | 24°D12 | 26°34 | 25°42 | 20°13 | 1° 0 | T 6 |
| F 7 | 13 2 38 | 17°33'44 | 16°11 | 20°27 | 14°32 | 21°15 | 23° 4 | 17°34 | 24°54 | 14° 6 | 24°12 | 26°35 | 25°39 | 20°19 | 1° 4 | F 7 |
| S 8 | 13 6 34 | 18°32'33 | 29°47 | 21°15 | 15°47 | 21°50 | 23°18 | 17°30 | 24°56 | 14° 8 | 24°12 | 26°R35 | 25°36 | 20°26 | 1° 8 | S 8 |
| S 9 | 13 10 31 | 19°31'21 | 13♈45 | 22° 7 | 17° 1 | 22°26 | 23°32 | 17°26 | 24°59 | 14°10 | 24°13 | 26°34 | 25°32 | 20°33 | 1°12 | S 9 |
| M10 | 13 14 27 | 20°30'07 | 28° 2 | 23° 2 | 18°15 | 23° 1 | 23°45 | 17°23 | 25° 2 | 14°12 | 24°13 | 26°32 | 25°29 | 20°39 | 1°16 | M10 |
| T 11 | 13 18 24 | 21°28'50 | 12♉34 | 23°59 | 19°29 | 23°36 | 23°59 | 17°19 | 25° 5 | 14°14 | 24°13 | 26°29 | 25°26 | 20°46 | 1°20 | T 11 |
| W12 | 13 22 20 | 22°27'32 | 27°13 | 25° 0 | 20°44 | 24°12 | 24°13 | 17°15 | 25° 9 | 14°16 | 24°13 | 26°26 | 25°23 | 20°53 | 1°24 | W12 |
| T 13 | 13 26 17 | 23°26'11 | 11♊52 | 26° 3 | 21°58 | 24°47 | 24°26 | 17°11 | 25°12 | 14°17 | 24°13 | 26°22 | 25°20 | 21° 0 | 1°28 | T 13 |
| F 14 | 13 30 13 | 24°24'49 | 26°27 | 27° 9 | 23°12 | 25°23 | 24°40 | 17° 7 | 25°15 | 14°19 | 24°13 | 26°19 | 25°16 | 21° 6 | 1°32 | F 14 |
| S 15 | 13 34 10 | 25°23'24 | 10♋50 | 28°17 | 24°26 | 25°58 | 24°54 | 17° 3 | 25°18 | 14°21 | 24°13 | 26°17 | 25°13 | 21°13 | 1°36 | S 15 |
| S 16 | 13 38 7 | 26°21'57 | 24°59 | 29°28 | 25°40 | 26°34 | 25° 7 | 16°59 | 25°21 | 14°23 | 24°14 | 26°D16 | 25°10 | 21°20 | 1°41 | S 16 |
| M17 | 13 42 3 | 27°20'27 | 8♌53 | 0♈41 | 26°55 | 27°10 | 25°20 | 16°55 | 25°24 | 14°25 | 24°14 | 26°17 | 25° 7 | 21°26 | 1°45 | M17 |
| T 18 | 13 46 0 | 28°18'56 | 22°31 | 1°57 | 28° 9 | 27°45 | 25°34 | 16°51 | 25°27 | 14°27 | 24°14 | 26°18 | 25° 4 | 21°33 | 1°49 | T 18 |
| W19 | 13 49 56 | 29°17'22 | 5♍53 | 3°15 | 29°23 | 28°21 | 25°47 | 16°47 | 25°31 | 14°28 | 24°15 | 26°20 | 25° 1 | 21°40 | 1°53 | W19 |
| T 20 | 13 53 53 | 0♉15'46 | 19° 1 | 4°34 | 0♉37 | 28°57 | 26° 0 | 16°43 | 25°34 | 14°30 | 24°15 | 26°21 | 24°57 | 21°47 | 1°58 | T 20 |
| F 21 | 13 57 49 | 1°14'07 | 1♎56 | 5°56 | 1°51 | 29°32 | 26°13 | 16°38 | 25°37 | 14°32 | 24°15 | 26°R21 | 24°54 | 21°53 | 2° 2 | F 21 |
| S 22 | 14 1 46 | 2°12'27 | 14°39 | 7°20 | 3° 5 | 0♋ 8 | 26°27 | 16°34 | 25°40 | 14°33 | 24°16 | 26°19 | 24°51 | 22° 0 | 2° 6 | S 22 |
| S 23 | 14 5 42 | 3°10'45 | 27°11 | 8°46 | 4°19 | 0°44 | 26°40 | 16°30 | 25°44 | 14°35 | 24°16 | 26°16 | 24°48 | 22° 7 | 2°11 | S 23 |
| M24 | 14 9 39 | 4° 9'01 | 9♏33 | 10°14 | 5°33 | 1°20 | 26°53 | 16°25 | 25°47 | 14°37 | 24°16 | 26°11 | 24°45 | 22°14 | 2°15 | M24 |
| T 25 | 14 13 36 | 5° 7'16 | 21°46 | 11°44 | 6°47 | 1°55 | 27° 6 | 16°21 | 25°50 | 14°38 | 24°17 | 26° 5 | 24°41 | 22°20 | 2°20 | T 25 |
| W26 | 14 17 32 | 6° 5'29 | 3♐50 | 13°15 | 8° 1 | 2°31 | 27°18 | 16°17 | 25°54 | 14°40 | 24°17 | 25°57 | 24°38 | 22°27 | 2°24 | W26 |
| T 27 | 14 21 29 | 7° 3'40 | 15°48 | 14°49 | 9°15 | 3° 7 | 27°31 | 16°12 | 25°57 | 14°41 | 24°18 | 25°50 | 24°35 | 22°34 | 2°29 | T 27 |
| F 28 | 14 25 25 | 8° 1'49 | 27°42 | 16°25 | 10°29 | 3°43 | 27°44 | 16° 8 | 26° 0 | 14°43 | 24°18 | 25°43 | 24°32 | 22°40 | 2°33 | F 28 |
| S 29 | 14 29 22 | 8°59'57 | 9♑34 | 18° 2 | 11°43 | 4°19 | 27°57 | 16° 3 | 26° 4 | 14°45 | 24°19 | 25°38 | 24°29 | 22°47 | 2°38 | S 29 |
| S 30 | 14 33 18 | 9♉58'04 | 21♑28 | 19♈42 | 12♉57 | 4♋55 | 28♓ 9 | 15♏59 | 26♉ 7 | 14♓46 | 24♋20 | 25♓34 | 24♓26 | 22♐54 | 2♊42 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n37 | 28s43 | 5s15 | 5s43 | 0s37 | 1n34 | 1s22 | 24n28 | 1n33 | 4s16 | 1s 3 | 14s47 | 2n30 | 18n46 | 0s12 | 7s16 | 1s 0 | 24n12 | 2n56 | 1s24 | 1s36 | 28s11 | 16n21 | 4s 4 |
| S 2 | 5 0 | 27 49 | 5 2 | 5 45 | 0 49 | 2 4 | 1 21 | 24 31 | 1 33 | 4 11 | 1 3 | 14 46 | 2 30 | 18 46 | 0 12 | 7 15 | 1 0 | 24 12 | 2 56 | 1 24 | 1 38 | 28 11 | 16 22 | 4 4 |
| M 3 | 5 23 | 25 38 | 4 37 | 5 45 | 1 1 | 2 34 | 1 21 | 24 34 | 1 33 | 4 5 | 1 3 | 14 45 | 2 30 | 18 47 | 0 12 | 7 14 | 1 0 | 24 12 | 2 56 | 1 24 | 1 39 | 28 12 | 16 23 | 4 4 |
| T 4 | 5 46 | 22 14 | 3 58 | 5 42 | 1 12 | 3 4 | 1 20 | 24 37 | 1 33 | 4 0 | 1 3 | 14 44 | 2 31 | 18 48 | 0 12 | 7 13 | 1 0 | 24 12 | 2 56 | 1 23 | 1 40 | 28 12 | 16 24 | 4 4 |
| W 5 | 6 9 | 17 46 | 3 8 | 5 37 | 1 23 | 3 34 | 1 19 | 24 39 | 1 33 | 3 54 | 1 3 | 14 43 | 2 31 | 18 48 | 0 12 | 7 13 | 1 0 | 24 12 | 2 56 | 1 23 | 1 42 | 28 13 | 16 24 | 4 4 |
| T 6 | 6 32 | 12 24 | 2 6 | 5 30 | 1 33 | 4 4 | 1 18 | 24 42 | 1 33 | 3 49 | 1 3 | 14 42 | 2 31 | 18 49 | 0 12 | 7 12 | 1 0 | 24 12 | 2 56 | 1 22 | 1 43 | 28 14 | 16 25 | 4 4 |
| F 7 | 6 54 | 6 20 | 0 57 | 5 21 | 1 42 | 4 34 | 1 17 | 24 44 | 1 33 | 3 44 | 1 3 | 14 41 | 2 31 | 18 50 | 0 12 | 7 11 | 1 0 | 24 12 | 2 56 | 1 22 | 1 44 | 28 14 | 16 26 | 4 4 |
| S 8 | 7 17 | 0n11 | 0n18 | 5 10 | 1 50 | 5 3 | 1 16 | 24 46 | 1 33 | 3 38 | 1 4 | 14 40 | 2 31 | 18 51 | 0 12 | 7 10 | 1 0 | 24 12 | 2 56 | 1 22 | 1 45 | 28 15 | 16 27 | 4 3 |
| S 9 | 7 39 | 6 52 | 1 33 | 4 57 | 1 58 | 5 33 | 1 14 | 24 48 | 1 32 | 3 33 | 1 4 | 14 39 | 2 31 | 18 51 | 0 12 | 7 10 | 1 0 | 24 12 | 2 56 | 1 22 | 1 47 | 28 15 | 16 28 | 4 3 |
| M10 | 8 1 | 13 21 | 2 44 | 4 42 | 2 6 | 6 3 | 1 13 | 24 50 | 1 32 | 3 28 | 1 4 | 14 38 | 2 31 | 18 52 | 0 12 | 7 9 | 1 0 | 24 12 | 2 56 | 1 23 | 1 48 | 28 16 | 16 29 | 4 3 |
| T 11 | 8 23 | 19 13 | 3 46 | 4 25 | 2 12 | 6 32 | 1 12 | 24 52 | 1 32 | 3 22 | 1 4 | 14 37 | 2 31 | 18 53 | 0 12 | 7 8 | 1 0 | 24 12 | 2 56 | 1 24 | 1 49 | 28 17 | 16 30 | 4 3 |
| W12 | 8 45 | 24 0 | 4 33 | 4 7 | 2 18 | 7 1 | 1 10 | 24 53 | 1 32 | 3 17 | 1 4 | 14 36 | 2 31 | 18 54 | 0 12 | 7 8 | 1 0 | 24 12 | 2 56 | 1 25 | 1 50 | 28 17 | 16 31 | 4 3 |
| T 13 | 9 7 | 27 15 | 5 3 | 3 46 | 2 24 | 7 30 | 1 9 | 24 55 | 1 32 | 3 12 | 1 4 | 14 34 | 2 31 | 18 54 | 0 12 | 7 7 | 1 0 | 24 12 | 2 56 | 1 27 | 1 52 | 28 18 | 16 31 | 4 3 |
| F 14 | 9 29 | 28 39 | 5 13 | 3 25 | 2 29 | 7 59 | 1 8 | 24 56 | 1 32 | 3 6 | 1 4 | 14 33 | 2 32 | 18 55 | 0 12 | 7 6 | 1 0 | 24 12 | 2 56 | 1 28 | 1 53 | 28 18 | 16 32 | 4 3 |
| S 15 | 9 50 | 28 4 | 5 3 | 3 1 | 2 33 | 8 28 | 1 6 | 24 57 | 1 32 | 3 1 | 1 4 | 14 32 | 2 32 | 18 56 | 0 12 | 7 6 | 1 0 | 24 12 | 2 56 | 1 29 | 1 54 | 28 19 | 16 33 | 4 3 |
| S 16 | 10 12 | 25 40 | 4 35 | 2 36 | 2 37 | 8 56 | 1 5 | 24 58 | 1 32 | 2 56 | 1 4 | 14 31 | 2 32 | 18 57 | 0 12 | 7 5 | 1 0 | 24 12 | 2 56 | 1 29 | 1 55 | 28 19 | 16 34 | 4 3 |
| M17 | 10 33 | 21 47 | 3 51 | 2 10 | 2 40 | 9 25 | 1 3 | 24 58 | 1 31 | 2 51 | 1 5 | 14 30 | 2 32 | 18 57 | 0 12 | 7 4 | 1 0 | 24 12 | 2 56 | 1 29 | 1 57 | 28 20 | 16 35 | 4 3 |
| T 18 | 10 54 | 16 47 | 2 54 | 1 42 | 2 42 | 9 53 | 1 1 | 24 59 | 1 31 | 2 45 | 1 5 | 14 28 | 2 32 | 18 58 | 0 12 | 7 4 | 1 0 | 24 12 | 2 56 | 1 28 | 1 58 | 28 20 | 16 36 | 4 3 |
| W19 | 11 14 | 11 4 | 1 49 | 1 13 | 2 44 | 10 21 | 1 0 | 24 59 | 1 31 | 2 40 | 1 5 | 14 27 | 2 32 | 18 59 | 0 12 | 7 3 | 1 0 | 24 12 | 2 56 | 1 28 | 1 59 | 28 21 | 16 37 | 4 3 |
| T 20 | 11 35 | 4 58 | 0 40 | 0 43 | 2 45 | 10 48 | 0 58 | 25 0 | 1 31 | 2 35 | 1 5 | 14 26 | 2 32 | 19 0 | 0 12 | 7 2 | 1 0 | 24 12 | 2 56 | 1 27 | 2 0 | 28 21 | 16 38 | 4 3 |
| F 21 | 11 55 | 1s14 | 0s30 | 0 11 | 2 46 | 11 16 | 0 56 | 25 0 | 1 31 | 2 30 | 1 5 | 14 25 | 2 32 | 19 0 | 0 12 | 7 2 | 1 0 | 24 11 | 2 56 | 1 27 | 2 2 | 28 22 | 16 39 | 4 2 |
| S 22 | 12 16 | 7 17 | 1 38 | 0n22 | 2 46 | 11 43 | 0 54 | 25 0 | 1 31 | 2 25 | 1 5 | 14 23 | 2 32 | 19 1 | 0 12 | 7 1 | 1 0 | 24 11 | 2 56 | 1 28 | 2 3 | 28 22 | 16 40 | 4 2 |
| S 23 | 12 36 | 12 58 | 2 40 | 0 56 | 2 46 | 12 10 | 0 52 | 24 59 | 1 30 | 2 20 | 1 5 | 14 22 | 2 32 | 19 2 | 0 12 | 7 0 | 1 0 | 24 11 | 2 56 | 1 29 | 2 4 | 28 23 | 16 40 | 4 2 |
| M24 | 12 56 | 18 4 | 3 33 | 1 32 | 2 45 | 12 36 | 0 51 | 24 59 | 1 30 | 2 15 | 1 5 | 14 21 | 2 32 | 19 3 | 0 12 | 7 0 | 1 0 | 24 11 | 2 56 | 1 31 | 2 6 | 28 23 | 16 41 | 4 2 |
| T 25 | 13 15 | 22 21 | 4 16 | 2 8 | 2 43 | 13 2 | 0 49 | 24 58 | 1 30 | 2 10 | 1 6 | 14 20 | 2 32 | 19 4 | 0 12 | 6 59 | 1 0 | 24 11 | 2 56 | 1 34 | 2 7 | 28 24 | 16 42 | 4 2 |
| W26 | 13 35 | 25 38 | 4 46 | 2 46 | 2 41 | 13 28 | 0 47 | 24 57 | 1 30 | 2 5 | 1 6 | 14 18 | 2 32 | 19 4 | 0 12 | 6 59 | 1 0 | 24 11 | 2 56 | 1 37 | 2 8 | 28 24 | 16 43 | 4 2 |
| T 27 | 13 54 | 27 46 | 5 4 | 3 25 | 2 39 | 13 54 | 0 45 | 24 56 | 1 30 | 2 0 | 1 6 | 14 17 | 2 32 | 19 5 | 0 12 | 6 58 | 1 0 | 24 11 | 2 56 | 1 40 | 2 9 | 28 24 | 16 44 | 4 2 |
| F 28 | 14 13 | 28 36 | 5 8 | 4 4 | 2 36 | 14 19 | 0 43 | 24 55 | 1 30 | 1 55 | 1 6 | 14 16 | 2 32 | 19 6 | 0 12 | 6 57 | 1 0 | 24 11 | 2 56 | 1 42 | 2 11 | 28 25 | 16 45 | 4 2 |
| S 29 | 14 31 | 28 7 | 5 0 | 4 45 | 2 32 | 14 44 | 0 40 | 24 54 | 1 29 | 1 50 | 1 6 | 14 15 | 2 32 | 19 7 | 0 12 | 6 57 | 1 0 | 24 11 | 2 56 | 1 45 | 2 12 | 28 25 | 16 46 | 4 2 |
| S 30 | 14n50 | 26s20 | 4s38 | 5n26 | 2s28 | 15n 9 | 0s38 | 24n53 | 1n29 | 1s45 | 1s 6 | 14s13 | 2n32 | 19n 8 | 0s12 | 6s56 | 1s 0 | 24n11 | 2n56 | 1s46 | 2s13 | 28s26 | 16n47 | 4s 2 |

Julian Day Number = 2338410.5, Delta T = 18.30 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°24'59, Lahiri = 19°32'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## MAY 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 14 37 15 | 10♉56'09 | 3♒29 | 21♈23 | 14♉11 | 5♋31 | 28♓22 | 15°R55 | 26♉11 | 14♓47 | 24♋20 | 25°R32 | 24♓22 | 23♐ 1 | 2♊47 | M 1 |
| T 2 | 14 41 11 | 11°54'13 | 15°41 | 23° 6 | 15°25 | 6° 7 | 28°34 | 15♏50 | 26°14 | 14°49 | 24°21 | 25°D32 | 24°19 | 23° 7 | 2°52 | T 2 |
| W 3 | 14 45 8 | 12°52'15 | 28° 9 | 24°51 | 16°39 | 6°42 | 28°47 | 15°46 | 26°17 | 14°50 | 24°21 | 25♓32 | 24°16 | 23°14 | 2°56 | W 3 |
| T 4 | 14 49 5 | 13°50'16 | 10♓57 | 26°38 | 17°53 | 7°18 | 28°59 | 15°41 | 26°21 | 14°52 | 24°22 | 25°34 | 24°13 | 23°21 | 3° 1 | T 4 |
| F 5 | 14 53 1 | 14°48'15 | 24° 9 | 28°27 | 19° 7 | 7°55 | 29°11 | 15°37 | 26°24 | 14°53 | 24°23 | 25°R34 | 24°10 | 23°27 | 3° 6 | F 5 |
| S 6 | 14 56 58 | 15°46'13 | 7♈49 | 0♉18 | 20°21 | 8°31 | 29°23 | 15°32 | 26°28 | 14°54 | 24°24 | 25°34 | 24° 7 | 23°34 | 3°11 | S 6 |
| S 7 | 15 0 54 | 16°44'10 | 21°56 | 2°11 | 21°35 | 9° 7 | 29°35 | 15°28 | 26°31 | 14°56 | 24°24 | 25°31 | 24° 3 | 23°41 | 3°15 | S 7 |
| M 8 | 15 4 51 | 17°42'05 | 6♉27 | 4° 5 | 22°49 | 9°43 | 29°47 | 15°23 | 26°35 | 14°57 | 24°25 | 25°26 | 24° 0 | 23°48 | 3°20 | M 8 |
| T 9 | 15 8 47 | 18°39'59 | 21°19 | 6° 2 | 24° 2 | 10°19 | 29°59 | 15°19 | 26°38 | 14°58 | 24°26 | 25°19 | 23°57 | 23°54 | 3°25 | T 9 |
| W10 | 15 12 44 | 19°37'52 | 6♊21 | 8° 0 | 25°16 | 10°55 | 0♈11 | 15°14 | 26°42 | 15° 0 | 24°27 | 25°11 | 23°54 | 24° 1 | 3°30 | W10 |
| T 11 | 15 16 40 | 20°35'43 | 21°26 | 10° 1 | 26°30 | 11°31 | 0°23 | 15°10 | 26°45 | 15° 1 | 24°28 | 25° 3 | 23°51 | 24° 8 | 3°34 | T 11 |
| F 12 | 15 20 37 | 21°33'32 | 6♋22 | 12° 2 | 27°44 | 12° 7 | 0°35 | 15° 5 | 26°49 | 15° 2 | 24°28 | 24°56 | 23°47 | 24°15 | 3°39 | F 12 |
| S 13 | 15 24 34 | 22°31'20 | 21° 2 | 14° 6 | 28°58 | 12°44 | 0°46 | 15° 1 | 26°52 | 15° 3 | 24°29 | 24°50 | 23°44 | 24°21 | 3°44 | S 13 |
| S 14 | 15 28 30 | 23°29'06 | 5♌22 | 16°11 | 0♊12 | 13°20 | 0°58 | 14°56 | 26°56 | 15° 4 | 24°30 | 24°47 | 23°41 | 24°28 | 3°49 | S 14 |
| M15 | 15 32 27 | 24°26'50 | 19°18 | 18°18 | 1°25 | 13°56 | 1° 9 | 14°52 | 26°59 | 15° 5 | 24°31 | 24°D45 | 23°38 | 24°35 | 3°54 | M15 |
| T 16 | 15 36 23 | 25°24'33 | 2♍51 | 20°26 | 2°39 | 14°32 | 1°20 | 14°47 | 27° 3 | 15° 6 | 24°32 | 24°45 | 23°35 | 24°41 | 3°59 | T 16 |
| W17 | 15 40 20 | 26°22'13 | 16° 3 | 22°35 | 3°53 | 15° 8 | 1°32 | 14°43 | 27° 6 | 15° 7 | 24°33 | 24°46 | 23°32 | 24°48 | 4° 4 | W17 |
| T 18 | 15 44 16 | 27°19'53 | 28°57 | 24°45 | 5° 7 | 15°45 | 1°43 | 14°39 | 27°10 | 15° 8 | 24°34 | 24°R46 | 23°28 | 24°55 | 4° 8 | T 18 |
| F 19 | 15 48 13 | 28°17'30 | 11♎36 | 26°56 | 6°20 | 16°21 | 1°54 | 14°34 | 27°13 | 15° 9 | 24°35 | 24°45 | 23°25 | 25° 2 | 4°13 | F 19 |
| S 20 | 15 52 9 | 29°15'06 | 24° 3 | 29° 8 | 7°34 | 16°57 | 2° 5 | 14°30 | 27°17 | 15°10 | 24°36 | 24°41 | 23°22 | 25° 8 | 4°18 | S 20 |
| S 21 | 15 56 6 | 0♊12'41 | 6♏20 | 1♊20 | 8°48 | 17°34 | 2°15 | 14°26 | 27°20 | 15°11 | 24°37 | 24°35 | 23°19 | 25°15 | 4°23 | S 21 |
| M22 | 16 0 3 | 1°10'15 | 18°29 | 3°31 | 10° 1 | 18°10 | 2°26 | 14°22 | 27°24 | 15°12 | 24°38 | 24°26 | 23°16 | 25°22 | 4°28 | M22 |
| T 23 | 16 3 59 | 2° 7'47 | 0♐32 | 5°43 | 11°15 | 18°46 | 2°37 | 14°17 | 27°27 | 15°13 | 24°39 | 24°15 | 23°13 | 25°29 | 4°33 | T 23 |
| W24 | 16 7 56 | 3° 5'19 | 12°30 | 7°54 | 12°29 | 19°23 | 2°47 | 14°13 | 27°31 | 15°14 | 24°40 | 24° 3 | 23° 9 | 25°35 | 4°38 | W24 |
| T 25 | 16 11 52 | 4° 2'49 | 24°25 | 10° 4 | 13°42 | 19°59 | 2°58 | 14° 9 | 27°34 | 15°14 | 24°41 | 23°50 | 23° 6 | 25°42 | 4°43 | T 25 |
| F 26 | 16 15 49 | 5° 0'18 | 6♑17 | 12°13 | 14°56 | 20°36 | 3° 8 | 14° 5 | 27°38 | 15°15 | 24°43 | 23°38 | 23° 3 | 25°49 | 4°48 | F 26 |
| S 27 | 16 19 45 | 5°57'47 | 18° 9 | 14°21 | 16°10 | 21°12 | 3°18 | 14° 1 | 27°41 | 15°16 | 24°44 | 23°28 | 23° 0 | 25°55 | 4°53 | S 27 |
| S 28 | 16 23 42 | 6°55'14 | 0♒ 4 | 16°27 | 17°23 | 21°49 | 3°28 | 13°57 | 27°45 | 15°17 | 24°45 | 23°20 | 22°57 | 26° 2 | 4°58 | S 28 |
| M29 | 16 27 38 | 7°52'41 | 12° 5 | 18°32 | 18°37 | 22°25 | 3°38 | 13°53 | 27°48 | 15°17 | 24°46 | 23°15 | 22°53 | 26° 9 | 5° 3 | M29 |
| T 30 | 16 31 35 | 8°50'06 | 24°15 | 20°34 | 19°51 | 23° 2 | 3°48 | 13°49 | 27°52 | 15°18 | 24°47 | 23°13 | 22°50 | 26°16 | 5° 8 | T 30 |
| W31 | 16 35 32 | 9♊47'32 | 6♓40 | 22♊35 | 21♊ 4 | 23♋38 | 3♈58 | 13♏45 | 27♉55 | 15♓18 | 24♋49 | 23°D12 | 22♓47 | 26♐22 | 5♊12 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 15n 8 | 23s22 | 4s 4 | 6n 9 | 2s23 | 15n33 | 0s36 | 24n51 | 1n29 | 1s40 | 1s 6 | 14s12 | 2n32 | 19n 8 | 0s12 | 6s56 | 1s 1 | 24n10 | 2n56 | 1s47 | 2s14 | 28s26 | 16n48 | 4s 2 |
| T 2 | 15 26 | 19 19 | 3 18 | 6 52 | 2 18 | 15 57 | 0 34 | 24 49 | 1 29 | 1 35 | 1 7 | 14 11 | 2 32 | 19 9 | 0 12 | 6 55 | 1 1 | 24 10 | 2 56 | 1 47 | 2 16 | 28 26 | 16 49 | 4 2 |
| W 3 | 15 44 | 14 22 | 2 22 | 7 36 | 2 12 | 16 20 | 0 32 | 24 47 | 1 29 | 1 30 | 1 7 | 14 10 | 2 32 | 19 10 | 0 12 | 6 55 | 1 1 | 24 10 | 2 56 | 1 47 | 2 17 | 28 27 | 16 49 | 4 2 |
| T 4 | 16 1 | 8 41 | 1 18 | 8 21 | 2 5 | 16 43 | 0 30 | 24 45 | 1 29 | 1 26 | 1 7 | 14 8 | 2 32 | 19 11 | 0 12 | 6 54 | 1 1 | 24 10 | 2 56 | 1 46 | 2 18 | 28 27 | 16 50 | 4 2 |
| F 5 | 16 18 | 2 27 | 0 8 | 9 6 | 1 59 | 17 6 | 0 27 | 24 43 | 1 28 | 1 21 | 1 7 | 14 7 | 2 32 | 19 12 | 0 12 | 6 54 | 1 1 | 24 10 | 2 56 | 1 46 | 2 19 | 28 28 | 16 51 | 4 2 |
| S 6 | 16 35 | 4n 6 | 1n 5 | 9 52 | 1 51 | 17 28 | 0 25 | 24 40 | 1 28 | 1 16 | 1 7 | 14 6 | 2 32 | 19 13 | 0 12 | 6 53 | 1 1 | 24 10 | 2 56 | 1 46 | 2 21 | 28 28 | 16 52 | 4 2 |
| S 7 | 16 52 | 10 40 | 2 17 | 10 38 | 1 44 | 17 49 | 0 23 | 24 38 | 1 28 | 1 12 | 1 7 | 14 4 | 2 32 | 19 13 | 0 12 | 6 53 | 1 1 | 24 10 | 2 56 | 1 47 | 2 22 | 28 28 | 16 53 | 4 2 |
| M 8 | 17 8 | 16 52 | 3 21 | 11 24 | 1 36 | 18 11 | 0 21 | 24 35 | 1 28 | 1 7 | 1 8 | 14 3 | 2 32 | 19 14 | 0 12 | 6 52 | 1 1 | 24 10 | 2 56 | 1 49 | 2 23 | 28 29 | 16 54 | 4 2 |
| T 9 | 17 25 | 22 12 | 4 14 | 12 11 | 1 27 | 18 31 | 0 18 | 24 32 | 1 28 | 1 2 | 1 8 | 14 2 | 2 32 | 19 15 | 0 12 | 6 52 | 1 1 | 24 9 | 2 56 | 1 52 | 2 24 | 28 29 | 16 55 | 4 2 |
| W10 | 17 40 | 26 9 | 4 49 | 12 58 | 1 18 | 18 52 | 0 16 | 24 29 | 1 27 | 0 58 | 1 8 | 14 1 | 2 32 | 19 16 | 0 12 | 6 51 | 1 1 | 24 9 | 2 56 | 1 55 | 2 26 | 28 29 | 16 56 | 4 2 |
| T 11 | 17 56 | 28 16 | 5 5 | 13 45 | 1 9 | 19 11 | 0 13 | 24 26 | 1 27 | 0 53 | 1 8 | 13 59 | 2 32 | 19 17 | 0 12 | 6 51 | 1 1 | 24 9 | 2 56 | 1 58 | 2 27 | 28 29 | 16 56 | 4 2 |
| F 12 | 18 11 | 28 18 | 4 59 | 14 32 | 0 59 | 19 31 | 0 11 | 24 22 | 1 27 | 0 49 | 1 8 | 13 58 | 2 32 | 19 17 | 0 12 | 6 51 | 1 1 | 24 9 | 2 56 | 2 1 | 2 28 | 28 30 | 16 57 | 4 2 |
| S 13 | 18 26 | 26 21 | 4 34 | 15 19 | 0 49 | 19 49 | 0 9 | 24 19 | 1 27 | 0 44 | 1 8 | 13 57 | 2 32 | 19 18 | 0 12 | 6 50 | 1 1 | 24 9 | 2 56 | 2 3 | 2 29 | 28 30 | 16 58 | 4 2 |
| S 14 | 18 41 | 22 43 | 3 52 | 16 5 | 0 39 | 20 7 | 0 6 | 24 15 | 1 26 | 0 40 | 1 9 | 13 56 | 2 32 | 19 19 | 0 12 | 6 50 | 1 1 | 24 9 | 2 56 | 2 5 | 2 31 | 28 30 | 16 59 | 4 2 |
| M15 | 18 55 | 17 52 | 2 58 | 16 51 | 0 29 | 20 25 | 0 4 | 24 11 | 1 26 | 0 36 | 1 9 | 13 55 | 2 32 | 19 20 | 0 12 | 6 49 | 1 1 | 24 8 | 2 56 | 2 5 | 2 32 | 28 31 | 17 0 | 4 2 |
| T 16 | 19 9 | 12 15 | 1 54 | 17 36 | 0 18 | 20 42 | 0 2 | 24 7 | 1 26 | 0 31 | 1 9 | 13 53 | 2 31 | 19 21 | 0 12 | 6 49 | 1 1 | 24 8 | 2 56 | 2 5 | 2 33 | 28 31 | 17 1 | 4 2 |
| W17 | 19 23 | 6 13 | 0 46 | 18 20 | 0 8 | 20 59 | 0n 1 | 24 2 | 1 26 | 0 27 | 1 9 | 13 52 | 2 31 | 19 22 | 0 12 | 6 49 | 1 1 | 24 8 | 2 56 | 2 5 | 2 34 | 28 31 | 17 2 | 4 2 |
| T 18 | 19 36 | 0 5 | 0s22 | 19 2 | 0n 3 | 21 15 | 0 3 | 23 58 | 1 26 | 0 23 | 1 9 | 13 51 | 2 31 | 19 22 | 0 12 | 6 48 | 1 1 | 24 8 | 2 56 | 2 5 | 2 36 | 28 31 | 17 2 | 4 3 |
| F 19 | 19 49 | 5s57 | 1 28 | 19 44 | 0 14 | 21 30 | 0 6 | 23 53 | 1 25 | 0 19 | 1 10 | 13 50 | 2 31 | 19 23 | 0 12 | 6 48 | 1 1 | 24 8 | 2 56 | 2 5 | 2 37 | 28 32 | 17 3 | 4 3 |
| S 20 | 20 2 | 11 39 | 2 29 | 20 23 | 0 24 | 21 45 | 0 8 | 23 49 | 1 25 | 0 14 | 1 10 | 13 49 | 2 31 | 19 24 | 0 12 | 6 48 | 1 1 | 24 8 | 2 56 | 2 7 | 2 38 | 28 32 | 17 4 | 4 3 |
| S 21 | 20 14 | 16 50 | 3 22 | 21 1 | 0 34 | 21 59 | 0 11 | 23 44 | 1 25 | 0 10 | 1 10 | 13 48 | 2 31 | 19 25 | 0 12 | 6 47 | 1 1 | 24 7 | 2 56 | 2 9 | 2 40 | 28 32 | 17 5 | 4 3 |
| M22 | 20 26 | 21 17 | 4 5 | 21 37 | 0 44 | 22 12 | 0 13 | 23 39 | 1 25 | 0 6 | 1 10 | 13 46 | 2 31 | 19 26 | 0 12 | 6 47 | 1 1 | 24 7 | 2 56 | 2 13 | 2 41 | 28 32 | 17 6 | 4 3 |
| T 23 | 20 37 | 24 48 | 4 36 | 22 11 | 0 54 | 22 25 | 0 15 | 23 33 | 1 24 | 0 2 | 1 10 | 13 45 | 2 31 | 19 26 | 0 12 | 6 47 | 1 1 | 24 7 | 2 56 | 2 17 | 2 42 | 28 33 | 17 6 | 4 3 |
| W24 | 20 49 | 27 13 | 4 55 | 22 42 | 1 3 | 22 38 | 0 18 | 23 28 | 1 24 | 0n 2 | 1 11 | 13 44 | 2 31 | 19 27 | 0 11 | 6 47 | 1 1 | 24 7 | 2 56 | 2 22 | 2 43 | 28 33 | 17 7 | 4 3 |
| T 25 | 21 0 | 28 23 | 5 1 | 23 11 | 1 12 | 22 49 | 0 20 | 23 22 | 1 24 | 0 6 | 1 11 | 13 43 | 2 30 | 19 28 | 0 11 | 6 46 | 1 1 | 24 7 | 2 56 | 2 27 | 2 45 | 28 33 | 17 8 | 4 3 |
| F 26 | 21 10 | 28 14 | 4 54 | 23 37 | 1 20 | 23 0 | 0 23 | 23 17 | 1 24 | 0 10 | 1 11 | 13 42 | 2 30 | 19 29 | 0 11 | 6 46 | 1 2 | 24 6 | 2 56 | 2 32 | 2 46 | 28 33 | 17 9 | 4 3 |
| S 27 | 21 20 | 26 46 | 4 34 | 24 1 | 1 27 | 23 10 | 0 25 | 23 11 | 1 23 | 0 14 | 1 11 | 13 41 | 2 30 | 19 30 | 0 11 | 6 46 | 1 2 | 24 6 | 2 56 | 2 36 | 2 47 | 28 33 | 17 10 | 4 3 |
| S 28 | 21 30 | 24 7 | 4 2 | 24 21 | 1 34 | 23 20 | 0 27 | 23 5 | 1 23 | 0 17 | 1 11 | 13 40 | 2 30 | 19 30 | 0 11 | 6 46 | 1 2 | 24 6 | 2 56 | 2 39 | 2 48 | 28 33 | 17 10 | 4 3 |
| M29 | 21 40 | 20 23 | 3 19 | 24 40 | 1 41 | 23 29 | 0 30 | 22 59 | 1 23 | 0 21 | 1 12 | 13 39 | 2 30 | 19 31 | 0 11 | 6 45 | 1 2 | 24 6 | 2 56 | 2 41 | 2 50 | 28 34 | 17 11 | 4 3 |
| T 30 | 21 49 | 15 46 | 2 27 | 24 55 | 1 46 | 23 37 | 0 32 | 22 52 | 1 23 | 0 25 | 1 12 | 13 38 | 2 30 | 19 32 | 0 11 | 6 45 | 1 2 | 24 6 | 2 56 | 2 42 | 2 51 | 28 34 | 17 12 | 4 3 |
| W31 | 21n58 | 10s25 | 1s26 | 25n 8 | 1n51 | 23n45 | 0n34 | 22n46 | 1n22 | 0n29 | 1s12 | 13s37 | 2n30 | 19n33 | 0s11 | 6s45 | 1s 2 | 24n 5 | 2n56 | 2s42 | 2s52 | 28s34 | 17n13 | 4s 4 |

Julian Day Number = 2338440.5, Delta T = 18.26 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'03, Lahiri = 19°32'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## JUNE 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 39 28 | 10♊44'56 | 19♓24 | 24♊33 | 22♊18 | 24♋15 | 4♈ 7 | 13°R42 | 27♉59 | 15♓19 | 24♋50 | 23°R12 | 22♓44 | 26♐29 | 5♊17 | T 1 |
| F 2 | 16 43 25 | 11°42'20 | 2♈32 | 26°30 | 23°31 | 24°51 | 4°17 | 13♏38 | 28° 2 | 15°19 | 24°51 | 23♓12 | 22°41 | 26°36 | 5°22 | F 2 |
| S 3 | 16 47 21 | 12°39'43 | 16° 8 | 28°24 | 24°45 | 25°28 | 4°26 | 13°34 | 28° 5 | 15°20 | 24°52 | 23°10 | 22°38 | 26°43 | 5°27 | S 3 |
| S 4 | 16 51 18 | 13°37'06 | 0♉12 | 0♋15 | 25°59 | 26° 4 | 4°35 | 13°31 | 28° 9 | 15°20 | 24°54 | 23° 6 | 22°34 | 26°49 | 5°32 | S 4 |
| M 5 | 16 55 14 | 14°34'28 | 14°45 | 2° 4 | 27°12 | 26°41 | 4°45 | 13°27 | 28°12 | 15°21 | 24°55 | 23° 0 | 22°31 | 26°56 | 5°37 | M 5 |
| T 6 | 16 59 11 | 15°31'50 | 29°42 | 3°51 | 28°26 | 27°17 | 4°54 | 13°24 | 28°16 | 15°21 | 24°56 | 22°51 | 22°28 | 27° 3 | 5°42 | T 6 |
| W 7 | 17 3 7 | 16°29'11 | 14♊55 | 5°35 | 29°39 | 27°54 | 5° 2 | 13°20 | 28°19 | 15°22 | 24°58 | 22°41 | 22°25 | 27° 9 | 5°47 | W 7 |
| T 8 | 17 7 4 | 17°26'31 | 0♋13 | 7°16 | 0♋53 | 28°31 | 5°11 | 13°17 | 28°22 | 15°22 | 24°59 | 22°30 | 22°22 | 27°16 | 5°52 | T 8 |
| F 9 | 17 11 1 | 18°23'51 | 15°25 | 8°55 | 2° 6 | 29° 8 | 5°20 | 13°14 | 28°26 | 15°22 | 25° 0 | 22°20 | 22°19 | 27°23 | 5°57 | F 9 |
| S 10 | 17 14 57 | 19°21'10 | 0♌21 | 10°31 | 3°20 | 29°44 | 5°28 | 13°10 | 28°29 | 15°23 | 25° 2 | 22°12 | 22°15 | 27°30 | 6° 1 | S 10 |
| S 11 | 17 18 54 | 20°18'27 | 14°53 | 12° 5 | 4°33 | 0♌21 | 5°37 | 13° 7 | 28°32 | 15°23 | 25° 3 | 22° 7 | 22°12 | 27°36 | 6° 6 | S 11 |
| M12 | 17 22 50 | 21°15'44 | 28°58 | 13°36 | 5°47 | 0°58 | 5°45 | 13° 4 | 28°36 | 15°23 | 25° 5 | 22° 4 | 22° 9 | 27°43 | 6°11 | M12 |
| T 13 | 17 26 47 | 22°13'01 | 12♍36 | 15° 5 | 7° 0 | 1°34 | 5°53 | 13° 1 | 28°39 | 15°23 | 25° 6 | 22° 3 | 22° 6 | 27°50 | 6°16 | T 13 |
| W14 | 17 30 43 | 23°10'16 | 25°47 | 16°31 | 8°14 | 2°11 | 6° 1 | 12°58 | 28°42 | 15°23 | 25° 7 | 22° 3 | 22° 3 | 27°56 | 6°21 | W14 |
| T 15 | 17 34 40 | 24° 7'30 | 8♎37 | 17°54 | 9°27 | 2°48 | 6° 9 | 12°55 | 28°46 | 15°23 | 25° 9 | 22° 2 | 21°59 | 28° 3 | 6°25 | T 15 |
| F 16 | 17 38 37 | 25° 4'44 | 21° 9 | 19°14 | 10°41 | 3°25 | 6°16 | 12°53 | 28°49 | 15°23 | 25°10 | 22° 1 | 21°56 | 28°10 | 6°30 | F 16 |
| S 17 | 17 42 33 | 26° 1'57 | 3♏27 | 20°32 | 11°54 | 4° 2 | 6°24 | 12°50 | 28°52 | 15°23 | 25°12 | 21°57 | 21°53 | 28°17 | 6°35 | S 17 |
| S 18 | 17 46 30 | 26°59'10 | 15°35 | 21°47 | 13° 7 | 4°38 | 6°31 | 12°47 | 28°55 | 15°R23 | 25°13 | 21°50 | 21°50 | 28°23 | 6°40 | S 18 |
| M19 | 17 50 26 | 27°56'22 | 27°35 | 22°59 | 14°21 | 5°15 | 6°38 | 12°45 | 28°58 | 15°23 | 25°15 | 21°40 | 21°47 | 28°30 | 6°44 | M19 |
| T 20 | 17 54 23 | 28°53'33 | 9♐31 | 24° 8 | 15°34 | 5°52 | 6°45 | 12°42 | 29° 2 | 15°23 | 25°16 | 21°28 | 21°44 | 28°37 | 6°49 | T 20 |
| W21 | 17 58 19 | 29°50'45 | 21°25 | 25°14 | 16°47 | 6°29 | 6°52 | 12°40 | 29° 5 | 15°23 | 25°18 | 21°15 | 21°40 | 28°44 | 6°54 | W21 |
| T 22 | 18 2 16 | 0♋47'56 | 3♑18 | 26°17 | 18° 1 | 7° 6 | 6°59 | 12°38 | 29° 8 | 15°23 | 25°19 | 21° 1 | 21°37 | 28°50 | 6°58 | T 22 |
| F 23 | 18 6 12 | 1°45'06 | 15°11 | 27°17 | 19°14 | 7°43 | 7° 6 | 12°36 | 29°11 | 15°23 | 25°21 | 20°48 | 21°34 | 28°57 | 7° 3 | F 23 |
| S 24 | 18 10 9 | 2°42'17 | 27° 6 | 28°14 | 20°28 | 8°20 | 7°12 | 12°34 | 29°14 | 15°23 | 25°22 | 20°37 | 21°31 | 29° 4 | 7° 8 | S 24 |
| S 25 | 18 14 6 | 3°39'27 | 9♒ 5 | 29° 7 | 21°41 | 8°57 | 7°18 | 12°32 | 29°17 | 15°23 | 25°24 | 20°29 | 21°28 | 29°10 | 7°12 | S 25 |
| M26 | 18 18 2 | 4°36'38 | 21°10 | 29°57 | 22°54 | 9°34 | 7°24 | 12°30 | 29°20 | 15°22 | 25°26 | 20°23 | 21°25 | 29°17 | 7°17 | M26 |
| T 27 | 18 21 59 | 5°33'48 | 3♓24 | 0♌43 | 24° 7 | 10°11 | 7°30 | 12°28 | 29°23 | 15°22 | 25°27 | 20°20 | 21°21 | 29°24 | 7°21 | T 27 |
| W28 | 18 25 55 | 6°30'59 | 15°50 | 1°26 | 25°21 | 10°48 | 7°36 | 12°26 | 29°26 | 15°22 | 25°29 | 20°D19 | 21°18 | 29°31 | 7°26 | W28 |
| T 29 | 18 29 52 | 7°28'10 | 28°34 | 2° 5 | 26°34 | 11°25 | 7°42 | 12°24 | 29°29 | 15°21 | 25°30 | 20°19 | 21°15 | 29°37 | 7°30 | T 29 |
| F 30 | 18 33 48 | 8♋25'21 | 11♈39 | 2♌40 | 27♋47 | 12♌ 2 | 7♈47 | 12♏23 | 29♉32 | 15♓21 | 25♋32 | 20°R19 | 21♓12 | 29♐44 | 7♊35 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 6 | 4s31 | 0s20 | 25n18 | 1n55 | 23n52 | 0n37 | 22n39 | 1n22 | 0n32 | 1s12 | 13s36 | 2n29 | 19n34 | 0s11 | 6s45 | 1s 2 | 24n 5 | 2n56 | 2s42 | 2s53 | 28s34 | 17n13 | 4s 4 |
| F 2 | 22 14 | 1n46 | 0n49 | 25 25 | 1 59 | 23 58 | 0 39 | 22 32 | 1 22 | 0 36 | 1 12 | 13 35 | 2 29 | 19 34 | 0 11 | 6 45 | 1 2 | 24 5 | 2 56 | 2 42 | 2 55 | 28 34 | 17 14 | 4 4 |
| S 3 | 22 21 | 8 10 | 1 58 | 25 30 | 2 1 | 24 4 | 0 41 | 22 25 | 1 22 | 0 39 | 1 13 | 13 34 | 2 29 | 19 35 | 0 11 | 6 44 | 1 2 | 24 5 | 2 56 | 2 43 | 2 56 | 28 34 | 17 15 | 4 4 |
| S 4 | 22 29 | 14 24 | 3 2 | 25 32 | 2 3 | 24 8 | 0 43 | 22 18 | 1 21 | 0 43 | 1 13 | 13 33 | 2 29 | 19 36 | 0 11 | 6 44 | 1 2 | 24 5 | 2 56 | 2 44 | 2 57 | 28 34 | 17 16 | 4 4 |
| M 5 | 22 35 | 20 3 | 3 57 | 25 32 | 2 4 | 24 13 | 0 45 | 22 11 | 1 21 | 0 46 | 1 13 | 13 32 | 2 29 | 19 37 | 0 11 | 6 44 | 1 2 | 24 4 | 2 56 | 2 47 | 2 58 | 28 35 | 17 16 | 4 4 |
| T 6 | 22 42 | 24 37 | 4 36 | 25 30 | 2 5 | 24 16 | 0 48 | 22 4 | 1 21 | 0 49 | 1 13 | 13 31 | 2 29 | 19 37 | 0 11 | 6 44 | 1 2 | 24 4 | 2 56 | 2 50 | 3 0 | 28 35 | 17 17 | 4 4 |
| W 7 | 22 48 | 27 33 | 4 58 | 25 26 | 2 4 | 24 19 | 0 50 | 21 56 | 1 21 | 0 53 | 1 14 | 13 31 | 2 28 | 19 38 | 0 11 | 6 44 | 1 2 | 24 4 | 2 56 | 2 55 | 3 1 | 28 35 | 17 18 | 4 4 |
| T 8 | 22 53 | 28 26 | 4 58 | 25 20 | 2 3 | 24 21 | 0 52 | 21 48 | 1 20 | 0 56 | 1 14 | 13 30 | 2 28 | 19 39 | 0 11 | 6 44 | 1 2 | 24 4 | 2 56 | 2 59 | 3 2 | 28 35 | 17 18 | 4 5 |
| F 9 | 22 58 | 27 10 | 4 37 | 25 12 | 2 2 | 24 22 | 0 54 | 21 41 | 1 20 | 0 59 | 1 14 | 13 29 | 2 28 | 19 40 | 0 11 | 6 44 | 1 2 | 24 3 | 2 56 | 3 3 | 3 3 | 28 35 | 17 19 | 4 5 |
| S 10 | 23 3 | 23 58 | 3 57 | 25 2 | 1 59 | 24 22 | 0 56 | 21 33 | 1 20 | 1 2 | 1 14 | 13 28 | 2 28 | 19 40 | 0 11 | 6 44 | 1 2 | 24 3 | 2 56 | 3 6 | 3 5 | 28 35 | 17 20 | 4 5 |
| S 11 | 23 8 | 19 18 | 3 3 | 24 51 | 1 56 | 24 22 | 0 58 | 21 24 | 1 20 | 1 5 | 1 15 | 13 27 | 2 28 | 19 41 | 0 11 | 6 44 | 1 2 | 24 3 | 2 56 | 3 8 | 3 6 | 28 35 | 17 20 | 4 5 |
| M12 | 23 12 | 13 42 | 1 59 | 24 38 | 1 52 | 24 21 | 1 0 | 21 16 | 1 19 | 1 9 | 1 15 | 13 27 | 2 27 | 19 42 | 0 11 | 6 44 | 1 2 | 24 3 | 2 56 | 3 9 | 3 7 | 28 35 | 17 21 | 4 5 |
| T 13 | 23 15 | 7 37 | 0 50 | 24 24 | 1 47 | 24 20 | 1 2 | 21 8 | 1 19 | 1 11 | 1 15 | 13 26 | 2 27 | 19 43 | 0 11 | 6 44 | 1 2 | 24 2 | 2 56 | 3 10 | 3 8 | 28 35 | 17 22 | 4 5 |
| W14 | 23 18 | 1 22 | 0s20 | 24 8 | 1 42 | 24 17 | 1 4 | 20 59 | 1 19 | 1 14 | 1 15 | 13 25 | 2 27 | 19 43 | 0 11 | 6 44 | 1 2 | 24 2 | 2 56 | 3 10 | 3 10 | 28 35 | 17 22 | 4 6 |
| T 15 | 23 21 | 4s45 | 1 26 | 23 52 | 1 36 | 24 14 | 1 6 | 20 51 | 1 19 | 1 17 | 1 16 | 13 25 | 2 27 | 19 44 | 0 11 | 6 44 | 1 2 | 24 2 | 2 56 | 3 10 | 3 11 | 28 35 | 17 23 | 4 6 |
| F 16 | 23 23 | 10 32 | 2 27 | 23 34 | 1 29 | 24 10 | 1 7 | 20 42 | 1 18 | 1 20 | 1 16 | 13 24 | 2 27 | 19 45 | 0 11 | 6 44 | 1 2 | 24 2 | 2 56 | 3 10 | 3 12 | 28 35 | 17 24 | 4 6 |
| S 17 | 23 25 | 15 49 | 3 20 | 23 15 | 1 22 | 24 6 | 1 9 | 20 33 | 1 18 | 1 23 | 1 16 | 13 24 | 2 26 | 19 45 | 0 11 | 6 44 | 1 2 | 24 1 | 2 56 | 3 12 | 3 13 | 28 35 | 17 24 | 4 6 |
| S 18 | 23 27 | 20 24 | 4 3 | 22 56 | 1 14 | 24 0 | 1 11 | 20 24 | 1 18 | 1 25 | 1 16 | 13 23 | 2 26 | 19 46 | 0 11 | 6 44 | 1 3 | 24 1 | 2 56 | 3 15 | 3 15 | 28 35 | 17 25 | 4 6 |
| M19 | 23 28 | 24 6 | 4 34 | 22 36 | 1 5 | 23 55 | 1 12 | 20 14 | 1 17 | 1 28 | 1 17 | 13 22 | 2 26 | 19 47 | 0 11 | 6 44 | 1 3 | 24 1 | 2 57 | 3 19 | 3 16 | 28 35 | 17 25 | 4 6 |
| T 20 | 23 29 | 26 45 | 4 53 | 22 15 | 0 56 | 23 48 | 1 14 | 20 5 | 1 17 | 1 31 | 1 17 | 13 22 | 2 26 | 19 48 | 0 11 | 6 44 | 1 3 | 24 1 | 2 57 | 3 23 | 3 17 | 28 35 | 17 26 | 4 7 |
| W21 | 23 29 | 28 11 | 5 0 | 21 53 | 0 47 | 23 41 | 1 16 | 19 55 | 1 17 | 1 33 | 1 17 | 13 21 | 2 26 | 19 48 | 0 11 | 6 44 | 1 3 | 24 0 | 2 57 | 3 29 | 3 18 | 28 35 | 17 27 | 4 7 |
| T 22 | 23 29 | 28 19 | 4 53 | 21 32 | 0 36 | 23 32 | 1 17 | 19 46 | 1 17 | 1 36 | 1 17 | 13 21 | 2 25 | 19 49 | 0 11 | 6 44 | 1 3 | 24 0 | 2 57 | 3 34 | 3 20 | 28 35 | 17 27 | 4 7 |
| F 23 | 23 28 | 27 9 | 4 33 | 21 9 | 0 26 | 23 24 | 1 19 | 19 36 | 1 16 | 1 38 | 1 18 | 13 20 | 2 25 | 19 50 | 0 11 | 6 44 | 1 3 | 24 0 | 2 57 | 3 39 | 3 21 | 28 35 | 17 28 | 4 7 |
| S 24 | 23 27 | 24 44 | 4 2 | 20 47 | 0 14 | 23 14 | 1 20 | 19 26 | 1 16 | 1 40 | 1 18 | 13 20 | 2 25 | 19 50 | 0 11 | 6 44 | 1 3 | 24 0 | 2 57 | 3 43 | 3 22 | 28 35 | 17 28 | 4 8 |
| S 25 | 23 26 | 21 13 | 3 20 | 20 25 | 0 3 | 23 4 | 1 21 | 19 16 | 1 16 | 1 42 | 1 18 | 13 20 | 2 25 | 19 51 | 0 11 | 6 44 | 1 3 | 23 59 | 2 57 | 3 47 | 3 23 | 28 35 | 17 29 | 4 8 |
| M26 | 23 24 | 16 48 | 2 28 | 20 2 | 0s10 | 22 54 | 1 23 | 19 6 | 1 15 | 1 45 | 1 18 | 13 19 | 2 24 | 19 52 | 0 11 | 6 44 | 1 3 | 23 59 | 2 57 | 3 49 | 3 25 | 28 35 | 17 29 | 4 8 |
| T 27 | 23 22 | 11 39 | 1 28 | 19 40 | 0 22 | 22 42 | 1 24 | 18 56 | 1 15 | 1 47 | 1 19 | 13 19 | 2 24 | 19 52 | 0 11 | 6 45 | 1 3 | 23 59 | 2 57 | 3 50 | 3 26 | 28 35 | 17 30 | 4 8 |
| W28 | 23 19 | 5 57 | 0 24 | 19 18 | 0 36 | 22 30 | 1 25 | 18 45 | 1 15 | 1 49 | 1 19 | 13 19 | 2 24 | 19 53 | 0 11 | 6 45 | 1 3 | 23 59 | 2 57 | 3 51 | 3 27 | 28 34 | 17 30 | 4 8 |
| T 29 | 23 16 | 0n 6 | 0n44 | 18 56 | 0 49 | 22 17 | 1 26 | 18 35 | 1 14 | 1 51 | 1 19 | 13 18 | 2 24 | 19 54 | 0 11 | 6 45 | 1 3 | 23 58 | 2 57 | 3 51 | 3 29 | 28 34 | 17 31 | 4 9 |
| F 30 | 23n13 | 6n19 | 1n51 | 18n35 | 1s 3 | 22n 4 | 1n27 | 18n24 | 1n14 | 1n53 | 1s20 | 13s18 | 2n23 | 19n54 | 0s11 | 6s45 | 1s 3 | 23n58 | 2n57 | 3s51 | 3s30 | 28s34 | 17n31 | 4s 9 |

Julian Day Number = 2338471.5, Delta T = 18.22 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'08, Lahiri = 19°32'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## JULY 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 37 45 | 9♋22'33 | 25♈ 8 | 3♌10 | 29♋ 1 | 12♌39 | 7♈53 | 12°R21 | 29♉35 | 15°R21 | 25♋34 | 20°R18 | 21♓ 9 | 29♐51 | 7♊39 | S 1 |
| S 2 | 18 41 41 | 10°19'44 | 9♉ 5 | 3°37 | 0♌14 | 13°16 | 7°58 | 12♏20 | 29°38 | 15♓20 | 25°35 | 20♓15 | 21° 5 | 29°57 | 7°44 | S 2 |
| M 3 | 18 45 38 | 11°16'57 | 23°29 | 3°59 | 1°27 | 13°53 | 8° 3 | 12°19 | 29°41 | 15°20 | 25°37 | 20°10 | 21° 2 | 0♑ 4 | 7°48 | M 3 |
| T 4 | 18 49 35 | 12°14'10 | 8♊18 | 4°17 | 2°40 | 14°30 | 8° 7 | 12°18 | 29°43 | 15°19 | 25°38 | 20° 2 | 20°59 | 0°11 | 7°52 | T 4 |
| W 5 | 18 53 31 | 13°11'23 | 23°25 | 4°30 | 3°53 | 15° 8 | 8°12 | 12°16 | 29°46 | 15°19 | 25°40 | 19°53 | 20°56 | 0°18 | 7°57 | W 5 |
| T 6 | 18 57 28 | 14° 8'36 | 8♋40 | 4°39 | 5° 7 | 15°45 | 8°17 | 12°15 | 29°49 | 15°18 | 25°42 | 19°44 | 20°53 | 0°24 | 8° 1 | T 6 |
| F 7 | 19 1 24 | 15° 5'50 | 23°54 | 4°R43 | 6°20 | 16°22 | 8°21 | 12°15 | 29°52 | 15°17 | 25°43 | 19°35 | 20°50 | 0°31 | 8° 5 | F 7 |
| S 8 | 19 5 21 | 16° 3'04 | 8♌55 | 4°42 | 7°33 | 16°59 | 8°25 | 12°14 | 29°54 | 15°17 | 25°45 | 19°28 | 20°46 | 0°38 | 8° 9 | S 8 |
| S 9 | 19 9 17 | 17° 0'18 | 23°35 | 4°36 | 8°46 | 17°36 | 8°29 | 12°13 | 29°57 | 15°16 | 25°47 | 19°23 | 20°43 | 0°45 | 8°14 | S 9 |
| M10 | 19 13 14 | 17°57'32 | 7♍48 | 4°26 | 9°59 | 18°14 | 8°33 | 12°12 | 29°59 | 15°15 | 25°48 | 19°21 | 20°40 | 0°51 | 8°18 | M10 |
| T 11 | 19 17 11 | 18°54'46 | 21°33 | 4°11 | 11°12 | 18°51 | 8°36 | 12°12 | 0♊ 2 | 15°15 | 25°50 | 19°D20 | 20°37 | 0°58 | 8°22 | T 11 |
| W12 | 19 21 7 | 19°52'00 | 4♎50 | 3°51 | 12°26 | 19°28 | 8°39 | 12°11 | 0° 5 | 15°14 | 25°52 | 19°21 | 20°34 | 1° 5 | 8°26 | W12 |
| T 13 | 19 25 4 | 20°49'14 | 17°42 | 3°27 | 13°39 | 20° 6 | 8°43 | 12°11 | 0° 7 | 15°13 | 25°53 | 19°R21 | 20°31 | 1°11 | 8°30 | T 13 |
| F 14 | 19 29 0 | 21°46'29 | 0♏14 | 2°59 | 14°52 | 20°43 | 8°46 | 12°11 | 0°10 | 15°12 | 25°55 | 19°21 | 20°27 | 1°18 | 8°34 | F 14 |
| S 15 | 19 32 57 | 22°43'43 | 12°30 | 2°27 | 16° 5 | 21°20 | 8°48 | 12°11 | 0°12 | 15°12 | 25°57 | 19°19 | 20°24 | 1°25 | 8°38 | S 15 |
| S 16 | 19 36 53 | 23°40'58 | 24°34 | 1°52 | 17°18 | 21°58 | 8°51 | 12°D11 | 0°15 | 15°11 | 25°58 | 19°15 | 20°21 | 1°32 | 8°42 | S 16 |
| M17 | 19 40 50 | 24°38'14 | 6♐32 | 1°14 | 18°31 | 22°35 | 8°53 | 12°11 | 0°17 | 15°10 | 26° 0 | 19° 8 | 20°18 | 1°38 | 8°46 | M17 |
| T 18 | 19 44 46 | 25°35'30 | 18°25 | 0°34 | 19°44 | 23°13 | 8°56 | 12°11 | 0°19 | 15° 9 | 26° 2 | 19° 0 | 20°15 | 1°45 | 8°49 | T 18 |
| W19 | 19 48 43 | 26°32'46 | 0♑17 | 29♋52 | 20°57 | 23°50 | 8°58 | 12°11 | 0°22 | 15° 8 | 26° 3 | 18°51 | 20°11 | 1°52 | 8°53 | W19 |
| T 20 | 19 52 40 | 27°30'03 | 12°10 | 29° 9 | 22°10 | 24°28 | 9° 0 | 12°12 | 0°24 | 15° 7 | 26° 5 | 18°41 | 20° 8 | 1°59 | 8°57 | T 20 |
| F 21 | 19 56 36 | 28°27'20 | 24° 7 | 28°27 | 23°23 | 25° 5 | 9° 1 | 12°12 | 0°26 | 15° 6 | 26° 7 | 18°32 | 20° 5 | 2° 5 | 9° 1 | F 21 |
| S 22 | 20 0 33 | 29°24'38 | 6♒ 8 | 27°44 | 24°36 | 25°43 | 9° 3 | 12°13 | 0°28 | 15° 5 | 26° 8 | 18°24 | 20° 2 | 2°12 | 9° 4 | S 22 |
| S 23 | 20 4 29 | 0♌21'57 | 18°15 | 27° 4 | 25°48 | 26°20 | 9° 4 | 12°13 | 0°30 | 15° 4 | 26°10 | 18°18 | 19°59 | 2°19 | 9° 8 | S 23 |
| M24 | 20 8 26 | 1°19'16 | 0♓30 | 26°25 | 27° 1 | 26°58 | 9° 5 | 12°14 | 0°33 | 15° 3 | 26°12 | 18°14 | 19°56 | 2°25 | 9°11 | M24 |
| T 25 | 20 12 22 | 2°16'37 | 12°55 | 25°49 | 28°14 | 27°35 | 9° 6 | 12°15 | 0°35 | 15° 2 | 26°13 | 18°D13 | 19°52 | 2°32 | 9°15 | T 25 |
| W26 | 20 16 19 | 3°13'58 | 25°31 | 25°17 | 29°27 | 28°13 | 9° 7 | 12°16 | 0°37 | 15° 1 | 26°15 | 18°13 | 19°49 | 2°39 | 9°18 | W26 |
| T 27 | 20 20 15 | 4°11'21 | 8♈22 | 24°49 | 0♍40 | 28°50 | 9° 7 | 12°17 | 0°39 | 15° 0 | 26°17 | 18°14 | 19°46 | 2°46 | 9°22 | T 27 |
| F 28 | 20 24 12 | 5° 8'44 | 21°31 | 24°26 | 1°53 | 29°28 | 9° 7 | 12°18 | 0°41 | 14°59 | 26°18 | 18°15 | 19°43 | 2°52 | 9°25 | F 28 |
| S 29 | 20 28 9 | 6° 6'09 | 4♉59 | 24° 8 | 3° 5 | 0♍ 6 | 9°R 7 | 12°19 | 0°42 | 14°57 | 26°20 | 18°R16 | 19°40 | 2°59 | 9°29 | S 29 |
| S 30 | 20 32 5 | 7° 3'35 | 18°49 | 23°55 | 4°18 | 0°44 | 9° 7 | 12°20 | 0°44 | 14°56 | 26°21 | 18°15 | 19°37 | 3° 6 | 9°32 | S 30 |
| M31 | 20 36 2 | 8♌ 1'03 | 3♊ 2 | 23°D49 | 5♍31 | 1♍21 | 9♈ 7 | 12♏22 | 0♊46 | 14♓55 | 26♋23 | 18♓13 | 19♓33 | 3♑12 | 9♊35 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 9 | 12n26 | 2n54 | 18n14 | 1s17 | 21n50 | 1n28 | 18n13 | 1n14 | 1n54 | 1s20 | 13s18 | 2n23 | 19n55 | 0s11 | 6s45 | 1s 3 | 23n58 | 2n57 | 3s51 | 3s31 | 28s34 | 17n32 | 4s 9 |
| S 2 | 23 5 | 18 9 | 3 48 | 17 54 | 1 32 | 21 35 | 1 29 | 18 2 | 1 14 | 1 56 | 1 20 | 13 18 | 2 23 | 19 55 | 0 11 | 6 46 | 1 3 | 23 58 | 2 57 | 3 52 | 3 32 | 28 34 | 17 32 | 4 9 |
| M 3 | 23 0 | 23 2 | 4 31 | 17 34 | 1 46 | 21 20 | 1 30 | 17 51 | 1 13 | 1 58 | 1 20 | 13 18 | 2 23 | 19 56 | 0 11 | 6 46 | 1 3 | 23 57 | 2 57 | 3 54 | 3 34 | 28 34 | 17 33 | 4 10 |
| T 4 | 22 55 | 26 36 | 4 56 | 17 16 | 2 1 | 21 4 | 1 31 | 17 40 | 1 13 | 2 0 | 1 21 | 13 18 | 2 22 | 19 57 | 0 11 | 6 46 | 1 3 | 23 57 | 2 57 | 3 57 | 3 35 | 28 34 | 17 33 | 4 10 |
| W 5 | 22 50 | 28 21 | 5 2 | 16 58 | 2 16 | 20 48 | 1 32 | 17 29 | 1 13 | 2 1 | 1 21 | 13 17 | 2 22 | 19 57 | 0 11 | 6 46 | 1 3 | 23 57 | 2 57 | 4 1 | 3 36 | 28 34 | 17 33 | 4 10 |
| T 6 | 22 44 | 27 58 | 4 46 | 16 41 | 2 31 | 20 31 | 1 32 | 17 18 | 1 12 | 2 3 | 1 21 | 13 17 | 2 22 | 19 58 | 0 11 | 6 47 | 1 3 | 23 57 | 2 57 | 4 4 | 3 37 | 28 33 | 17 34 | 4 10 |
| F 7 | 22 38 | 25 28 | 4 11 | 16 26 | 2 46 | 20 13 | 1 33 | 17 6 | 1 12 | 2 4 | 1 21 | 13 17 | 2 22 | 19 58 | 0 11 | 6 47 | 1 3 | 23 56 | 2 57 | 4 8 | 3 39 | 28 33 | 17 34 | 4 11 |
| S 8 | 22 31 | 21 14 | 3 18 | 16 12 | 3 0 | 19 55 | 1 33 | 16 55 | 1 12 | 2 5 | 1 22 | 13 17 | 2 21 | 19 59 | 0 11 | 6 47 | 1 3 | 23 56 | 2 57 | 4 11 | 3 40 | 28 33 | 17 35 | 4 11 |
| S 9 | 22 24 | 15 46 | 2 13 | 16 0 | 3 15 | 19 37 | 1 34 | 16 43 | 1 11 | 2 7 | 1 22 | 13 17 | 2 21 | 20 0 | 0 11 | 6 47 | 1 3 | 23 56 | 2 57 | 4 13 | 3 41 | 28 33 | 17 35 | 4 11 |
| M10 | 22 16 | 9 36 | 1 1 | 15 48 | 3 29 | 19 17 | 1 34 | 16 31 | 1 11 | 2 8 | 1 22 | 13 17 | 2 21 | 20 0 | 0 11 | 6 48 | 1 3 | 23 56 | 2 57 | 4 13 | 3 42 | 28 33 | 17 35 | 4 11 |
| T 11 | 22 9 | 3 11 | 0s12 | 15 39 | 3 42 | 18 58 | 1 35 | 16 19 | 1 11 | 2 9 | 1 23 | 13 18 | 2 21 | 20 1 | 0 11 | 6 48 | 1 4 | 23 55 | 2 57 | 4 14 | 3 44 | 28 32 | 17 36 | 4 12 |
| W12 | 22 1 | 3s10 | 1 22 | 15 31 | 3 55 | 18 37 | 1 35 | 16 7 | 1 10 | 2 10 | 1 23 | 13 18 | 2 20 | 20 1 | 0 11 | 6 48 | 1 4 | 23 55 | 2 58 | 4 13 | 3 45 | 28 32 | 17 36 | 4 12 |
| T 13 | 21 52 | 9 12 | 2 26 | 15 25 | 4 7 | 18 17 | 1 35 | 15 55 | 1 10 | 2 11 | 1 23 | 13 18 | 2 20 | 20 2 | 0 11 | 6 49 | 1 4 | 23 55 | 2 58 | 4 13 | 3 46 | 28 32 | 17 36 | 4 12 |
| F 14 | 21 43 | 14 42 | 3 21 | 15 21 | 4 18 | 17 55 | 1 35 | 15 43 | 1 10 | 2 12 | 1 24 | 13 18 | 2 20 | 20 2 | 0 11 | 6 49 | 1 4 | 23 55 | 2 58 | 4 13 | 3 47 | 28 32 | 17 37 | 4 13 |
| S 15 | 21 34 | 19 30 | 4 5 | 15 18 | 4 28 | 17 34 | 1 35 | 15 31 | 1 9 | 2 13 | 1 24 | 13 18 | 2 20 | 20 3 | 0 11 | 6 49 | 1 4 | 23 54 | 2 58 | 4 14 | 3 49 | 28 32 | 17 37 | 4 13 |
| S 16 | 21 24 | 23 26 | 4 38 | 15 17 | 4 36 | 17 11 | 1 35 | 15 18 | 1 9 | 2 14 | 1 24 | 13 18 | 2 19 | 20 3 | 0 11 | 6 50 | 1 4 | 23 54 | 2 58 | 4 16 | 3 50 | 28 31 | 17 37 | 4 13 |
| M17 | 21 14 | 26 20 | 4 58 | 15 19 | 4 43 | 16 49 | 1 35 | 15 6 | 1 9 | 2 14 | 1 24 | 13 19 | 2 19 | 20 4 | 0 11 | 6 50 | 1 4 | 23 54 | 2 58 | 4 18 | 3 51 | 28 31 | 17 38 | 4 14 |
| T 18 | 21 4 | 28 3 | 5 5 | 15 21 | 4 49 | 16 26 | 1 35 | 14 53 | 1 8 | 2 15 | 1 25 | 13 19 | 2 19 | 20 4 | 0 11 | 6 50 | 1 4 | 23 54 | 2 58 | 4 22 | 3 52 | 28 31 | 17 38 | 4 14 |
| W19 | 20 53 | 28 28 | 4 59 | 15 26 | 4 53 | 16 2 | 1 35 | 14 40 | 1 8 | 2 15 | 1 25 | 13 19 | 2 18 | 20 5 | 0 11 | 6 51 | 1 4 | 23 53 | 2 58 | 4 25 | 3 54 | 28 30 | 17 38 | 4 14 |
| T 20 | 20 42 | 27 35 | 4 40 | 15 32 | 4 56 | 15 38 | 1 34 | 14 27 | 1 8 | 2 16 | 1 25 | 13 20 | 2 18 | 20 5 | 0 11 | 6 51 | 1 4 | 23 53 | 2 58 | 4 29 | 3 55 | 28 30 | 17 38 | 4 14 |
| F 21 | 20 30 | 25 25 | 4 9 | 15 40 | 4 56 | 15 14 | 1 34 | 14 14 | 1 7 | 2 16 | 1 26 | 13 20 | 2 18 | 20 6 | 0 11 | 6 52 | 1 4 | 23 53 | 2 58 | 4 33 | 3 56 | 28 30 | 17 39 | 4 15 |
| S 22 | 20 19 | 22 6 | 3 27 | 15 49 | 4 55 | 14 49 | 1 33 | 14 1 | 1 7 | 2 17 | 1 26 | 13 21 | 2 18 | 20 6 | 0 11 | 6 52 | 1 4 | 23 53 | 2 58 | 4 36 | 3 57 | 28 30 | 17 39 | 4 15 |
| S 23 | 20 7 | 17 50 | 2 34 | 16 0 | 4 52 | 14 24 | 1 33 | 13 48 | 1 7 | 2 17 | 1 26 | 13 21 | 2 17 | 20 7 | 0 11 | 6 53 | 1 4 | 23 52 | 2 58 | 4 38 | 3 59 | 28 29 | 17 39 | 4 15 |
| M24 | 19 54 | 12 47 | 1 34 | 16 12 | 4 48 | 13 58 | 1 32 | 13 35 | 1 6 | 2 17 | 1 26 | 13 21 | 2 17 | 20 7 | 0 11 | 6 53 | 1 4 | 23 52 | 2 58 | 4 39 | 4 0 | 28 29 | 17 39 | 4 16 |
| T 25 | 19 41 | 7 10 | 0 29 | 16 24 | 4 42 | 13 32 | 1 32 | 13 22 | 1 6 | 2 17 | 1 27 | 13 22 | 2 17 | 20 7 | 0 11 | 6 53 | 1 4 | 23 52 | 2 58 | 4 40 | 4 1 | 28 29 | 17 39 | 4 16 |
| W26 | 19 28 | 1 11 | 0n39 | 16 38 | 4 34 | 13 6 | 1 31 | 13 9 | 1 6 | 2 17 | 1 27 | 13 23 | 2 17 | 20 8 | 0 11 | 6 54 | 1 4 | 23 52 | 2 58 | 4 40 | 4 2 | 28 28 | 17 40 | 4 16 |
| T 27 | 19 15 | 4n58 | 1 47 | 16 52 | 4 25 | 12 40 | 1 30 | 12 55 | 1 5 | 2 17 | 1 27 | 13 23 | 2 16 | 20 8 | 0 11 | 6 54 | 1 4 | 23 51 | 2 59 | 4 40 | 4 4 | 28 28 | 17 40 | 4 17 |
| F 28 | 19 1 | 11 2 | 2 50 | 17 6 | 4 14 | 12 13 | 1 29 | 12 42 | 1 5 | 2 17 | 1 28 | 13 24 | 2 16 | 20 9 | 0 11 | 6 55 | 1 4 | 23 51 | 2 59 | 4 39 | 4 5 | 28 28 | 17 40 | 4 17 |
| S 29 | 18 47 | 16 45 | 3 46 | 17 21 | 4 2 | 11 46 | 1 28 | 12 28 | 1 5 | 2 17 | 1 28 | 13 24 | 2 16 | 20 9 | 0 11 | 6 55 | 1 4 | 23 51 | 2 59 | 4 39 | 4 6 | 28 27 | 17 40 | 4 17 |
| S 30 | 18 32 | 21 47 | 4 30 | 17 36 | 3 49 | 11 18 | 1 27 | 12 14 | 1 4 | 2 16 | 1 28 | 13 25 | 2 16 | 20 9 | 0 11 | 6 56 | 1 4 | 23 51 | 2 59 | 4 39 | 4 7 | 28 27 | 17 40 | 4 18 |
| M31 | 18n18 | 25n41 | 4n59 | 17n51 | 3s35 | 10n50 | 1n26 | 12n 0 | 1n 4 | 2n16 | 1s29 | 13s26 | 2n15 | 20n10 | 0s11 | 6s56 | 1s 4 | 23n50 | 2n59 | 4s40 | 4s 9 | 28s27 | 17n40 | 4s18 |

Julian Day Number = 2338501.5, Delta T = 18.18 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'12, Lahiri = 19°32'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## AUGUST 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 39 58 | 8♌58'32 | 17♊35 | 23♋49 | 6♍43 | 1♍59 | 9°R 7 | 12♏23 | 0♊48 | 14°R54 | 26♋25 | 18°R 9 | 19♓30 | 3♉19 | 9♊38 | T 1 |
| W 2 | 20 43 55 | 9°56'02 | 2♋24 | 23°56 | 7°56 | 2°37 | 9♈ 6 | 12°25 | 0°50 | 14♓52 | 26°26 | 18♓ 4 | 19°27 | 3°26 | 9°41 | W 2 |
| T 3 | 20 47 51 | 10°53'33 | 17°23 | 24°10 | 9° 9 | 3°15 | 9° 5 | 12°27 | 0°51 | 14°51 | 26°28 | 17°59 | 19°24 | 3°33 | 9°44 | T 3 |
| F 4 | 20 51 48 | 11°51'06 | 2♌23 | 24°30 | 10°21 | 3°52 | 9° 4 | 12°28 | 0°53 | 14°50 | 26°30 | 17°54 | 19°21 | 3°39 | 9°47 | F 4 |
| S 5 | 20 55 44 | 12°48'40 | 17°14 | 24°57 | 11°34 | 4°30 | 9° 3 | 12°30 | 0°55 | 14°49 | 26°31 | 17°50 | 19°17 | 3°46 | 9°50 | S 5 |
| S 6 | 20 59 41 | 13°46'14 | 1♍50 | 25°31 | 12°47 | 5° 8 | 9° 1 | 12°32 | 0°56 | 14°47 | 26°33 | 17°47 | 19°14 | 3°53 | 9°53 | S 6 |
| M 7 | 21 3 38 | 14°43'50 | 16° 3 | 26°11 | 13°59 | 5°46 | 8°59 | 12°34 | 0°58 | 14°46 | 26°34 | 17°D46 | 19°11 | 3°59 | 9°56 | M 7 |
| T 8 | 21 7 34 | 15°41'27 | 29°50 | 26°59 | 15°12 | 6°24 | 8°58 | 12°37 | 0°59 | 14°44 | 26°36 | 17°47 | 19° 8 | 4° 6 | 9°59 | T 8 |
| W 9 | 21 11 31 | 16°39'05 | 13♎12 | 27°53 | 16°24 | 7° 2 | 8°55 | 12°39 | 1° 1 | 14°43 | 26°38 | 17°48 | 19° 5 | 4°13 | 10° 2 | W 9 |
| T 10 | 21 15 27 | 17°36'43 | 26° 9 | 28°53 | 17°37 | 7°40 | 8°53 | 12°41 | 1° 2 | 14°42 | 26°39 | 17°50 | 19° 2 | 4°20 | 10° 4 | T 10 |
| F 11 | 21 19 24 | 18°34'23 | 8♏44 | 29°59 | 18°49 | 8°18 | 8°51 | 12°44 | 1° 3 | 14°40 | 26°41 | 17°51 | 18°58 | 4°26 | 10° 7 | F 11 |
| S 12 | 21 23 20 | 19°32'04 | 21° 2 | 1♌12 | 20° 2 | 8°56 | 8°48 | 12°46 | 1° 4 | 14°39 | 26°42 | 17°R51 | 18°55 | 4°33 | 10° 9 | S 12 |
| S 13 | 21 27 17 | 20°29'46 | 3♐ 7 | 2°30 | 21°14 | 9°34 | 8°45 | 12°49 | 1° 6 | 14°37 | 26°44 | 17°51 | 18°52 | 4°40 | 10°12 | S 13 |
| M14 | 21 31 13 | 21°27'29 | 15° 4 | 3°54 | 22°26 | 10°12 | 8°42 | 12°52 | 1° 7 | 14°36 | 26°45 | 17°49 | 18°49 | 4°47 | 10°14 | M14 |
| T 15 | 21 35 10 | 22°25'14 | 26°57 | 5°23 | 23°39 | 10°50 | 8°39 | 12°54 | 1° 8 | 14°34 | 26°47 | 17°46 | 18°46 | 4°53 | 10°17 | T 15 |
| W16 | 21 39 7 | 23°22'59 | 8♑50 | 6°56 | 24°51 | 11°29 | 8°35 | 12°57 | 1° 9 | 14°33 | 26°49 | 17°42 | 18°43 | 5° 0 | 10°19 | W16 |
| T 17 | 21 43 3 | 24°20'46 | 20°46 | 8°34 | 26° 3 | 12° 7 | 8°32 | 13° 0 | 1°10 | 14°31 | 26°50 | 17°38 | 18°39 | 5° 7 | 10°21 | T 17 |
| F 18 | 21 47 0 | 25°18'34 | 2♒47 | 10°16 | 27°16 | 12°45 | 8°28 | 13° 3 | 1°11 | 14°30 | 26°52 | 17°34 | 18°36 | 5°13 | 10°23 | F 18 |
| S 19 | 21 50 56 | 26°16'23 | 14°57 | 12° 1 | 28°28 | 13°23 | 8°24 | 13° 6 | 1°12 | 14°28 | 26°53 | 17°31 | 18°33 | 5°20 | 10°25 | S 19 |
| S 20 | 21 54 53 | 27°14'14 | 27°16 | 13°49 | 29°40 | 14° 2 | 8°20 | 13°10 | 1°13 | 14°27 | 26°55 | 17°29 | 18°30 | 5°27 | 10°27 | S 20 |
| M21 | 21 58 49 | 28°12'06 | 9♓46 | 15°40 | 0♎52 | 14°40 | 8°16 | 13°13 | 1°14 | 14°25 | 26°56 | 17°28 | 18°27 | 5°34 | 10°29 | M21 |
| T 22 | 22 2 46 | 29°10'00 | 22°28 | 17°33 | 2° 4 | 15°18 | 8°11 | 13°16 | 1°15 | 14°24 | 26°57 | 17°D28 | 18°23 | 5°40 | 10°31 | T 22 |
| W23 | 22 6 42 | 0♍ 7'55 | 5♈23 | 19°27 | 3°16 | 15°56 | 8° 6 | 13°20 | 1°15 | 14°22 | 26°59 | 17°29 | 18°20 | 5°47 | 10°33 | W23 |
| T 24 | 22 10 39 | 1° 5'52 | 18°30 | 21°23 | 4°28 | 16°35 | 8° 2 | 13°24 | 1°16 | 14°20 | 27° 0 | 17°30 | 18°17 | 5°54 | 10°35 | T 24 |
| F 25 | 22 14 36 | 2° 3'51 | 1♉52 | 23°20 | 5°40 | 17°13 | 7°57 | 13°27 | 1°17 | 14°19 | 27° 2 | 17°31 | 18°14 | 6° 0 | 10°37 | F 25 |
| S 26 | 22 18 32 | 3° 1'52 | 15°29 | 25°17 | 6°52 | 17°52 | 7°51 | 13°31 | 1°17 | 14°17 | 27° 3 | 17°32 | 18°11 | 6° 7 | 10°38 | S 26 |
| S 27 | 22 22 29 | 3°59'55 | 29°20 | 27°15 | 8° 4 | 18°30 | 7°46 | 13°35 | 1°18 | 14°16 | 27° 5 | 17°R33 | 18° 8 | 6°14 | 10°40 | S 27 |
| M28 | 22 26 25 | 4°58'00 | 13♊26 | 29°13 | 9°16 | 19° 9 | 7°41 | 13°39 | 1°18 | 14°14 | 27° 6 | 17°32 | 18° 4 | 6°21 | 10°41 | M28 |
| T 29 | 22 30 22 | 5°56'07 | 27°44 | 1♍10 | 10°28 | 19°47 | 7°35 | 13°43 | 1°19 | 14°12 | 27° 7 | 17°32 | 18° 1 | 6°27 | 10°43 | T 29 |
| W30 | 22 34 18 | 6°54'16 | 12♋13 | 3° 7 | 11°40 | 20°26 | 7°29 | 13°47 | 1°19 | 14°11 | 27° 9 | 17°31 | 17°58 | 6°34 | 10°44 | W30 |
| T 31 | 22 38 15 | 7♍52'27 | 26♋47 | 5♍ 4 | 12♎51 | 21♍ 4 | 7♈23 | 13♏51 | 1♊19 | 14♓ 9 | 27♋10 | 17♓30 | 17♓55 | 6♉41 | 10♊45 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 18n 3 | 28n 3 | 5n10 | 18n 5 | 3s20 | 10n22 | 1n25 | 11n47 | 1n 4 | 2n15 | 1s29 | 13s26 | 2n15 | 20n10 | 0s11 | 6s57 | 1s 4 | 23n50 | 2n59 | 4s41 | 4s10 | 28s26 | 17n40 | 4s18 |
| W 2 | 17 47 | 28 28 | 5 0 | 18 19 | 3 5 | 9 54 | 1 23 | 11 33 | 1 3 | 2 15 | 1 29 | 13 27 | 2 15 | 20 11 | 0 11 | 6 57 | 1 4 | 23 50 | 2 59 | 4 43 | 4 11 | 28 26 | 17 41 | 4 19 |
| T 3 | 17 32 | 26 49 | 4 30 | 18 33 | 2 49 | 9 25 | 1 22 | 11 19 | 1 3 | 2 14 | 1 29 | 13 28 | 2 14 | 20 11 | 0 11 | 6 58 | 1 4 | 23 50 | 2 59 | 4 46 | 4 12 | 28 25 | 17 41 | 4 19 |
| F 4 | 17 16 | 23 16 | 3 42 | 18 45 | 2 33 | 8 56 | 1 21 | 11 5 | 1 3 | 2 14 | 1 30 | 13 29 | 2 14 | 20 11 | 0 11 | 6 58 | 1 4 | 23 49 | 2 59 | 4 48 | 4 14 | 28 25 | 17 41 | 4 20 |
| S 5 | 17 0 | 18 13 | 2 39 | 18 57 | 2 16 | 8 27 | 1 19 | 10 50 | 1 2 | 2 13 | 1 30 | 13 29 | 2 14 | 20 12 | 0 11 | 6 59 | 1 4 | 23 49 | 2 59 | 4 49 | 4 15 | 28 25 | 17 41 | 4 20 |
| S 6 | 16 43 | 12 11 | 1 26 | 19 7 | 2 0 | 7 58 | 1 17 | 10 36 | 1 2 | 2 12 | 1 30 | 13 30 | 2 14 | 20 12 | 0 11 | 7 0 | 1 4 | 23 49 | 2 59 | 4 50 | 4 16 | 28 24 | 17 41 | 4 20 |
| M 7 | 16 27 | 5 40 | 0 9 | 19 16 | 1 43 | 7 29 | 1 16 | 10 22 | 1 1 | 2 11 | 1 31 | 13 31 | 2 13 | 20 12 | 0 11 | 7 0 | 1 4 | 23 49 | 2 59 | 4 50 | 4 17 | 28 24 | 17 41 | 4 21 |
| T 8 | 16 10 | 0s56 | 1s 5 | 19 23 | 1 27 | 6 59 | 1 14 | 10 7 | 1 1 | 2 10 | 1 31 | 13 32 | 2 13 | 20 13 | 0 11 | 7 1 | 1 4 | 23 49 | 3 0 | 4 50 | 4 19 | 28 23 | 17 41 | 4 21 |
| W 9 | 15 52 | 7 17 | 2 14 | 19 29 | 1 10 | 6 29 | 1 12 | 9 53 | 1 1 | 2 9 | 1 31 | 13 33 | 2 13 | 20 13 | 0 11 | 7 1 | 1 4 | 23 48 | 3 0 | 4 50 | 4 20 | 28 23 | 17 41 | 4 21 |
| T 10 | 15 35 | 13 8 | 3 14 | 19 32 | 0 54 | 5 59 | 1 10 | 9 38 | 1 0 | 2 8 | 1 31 | 13 34 | 2 13 | 20 13 | 0 11 | 7 2 | 1 5 | 23 48 | 3 0 | 4 49 | 4 21 | 28 22 | 17 41 | 4 22 |
| F 11 | 15 17 | 18 16 | 4 3 | 19 33 | 0 39 | 5 29 | 1 8 | 9 24 | 1 0 | 2 7 | 1 32 | 13 35 | 2 12 | 20 13 | 0 11 | 7 2 | 1 5 | 23 48 | 3 0 | 4 49 | 4 22 | 28 22 | 17 41 | 4 22 |
| S 12 | 14 59 | 22 32 | 4 40 | 19 32 | 0 24 | 4 58 | 1 6 | 9 9 | 1 0 | 2 5 | 1 32 | 13 36 | 2 12 | 20 14 | 0 11 | 7 3 | 1 5 | 23 48 | 3 0 | 4 49 | 4 23 | 28 21 | 17 41 | 4 23 |
| S 13 | 14 41 | 25 46 | 5 3 | 19 29 | 0 9 | 4 28 | 1 4 | 8 54 | 0 59 | 2 4 | 1 32 | 13 37 | 2 12 | 20 14 | 0 11 | 7 4 | 1 5 | 23 47 | 3 0 | 4 49 | 4 25 | 28 21 | 17 41 | 4 23 |
| M14 | 14 23 | 27 50 | 5 13 | 19 23 | 0n 4 | 3 57 | 1 2 | 8 40 | 0 59 | 2 2 | 1 32 | 13 38 | 2 12 | 20 14 | 0 11 | 7 4 | 1 5 | 23 47 | 3 0 | 4 50 | 4 26 | 28 20 | 17 41 | 4 23 |
| T 15 | 14 4 | 28 36 | 5 9 | 19 14 | 0 17 | 3 27 | 1 0 | 8 25 | 0 58 | 2 1 | 1 33 | 13 39 | 2 11 | 20 14 | 0 11 | 7 5 | 1 5 | 23 47 | 3 0 | 4 51 | 4 27 | 28 20 | 17 41 | 4 24 |
| W16 | 13 45 | 28 3 | 4 52 | 19 3 | 0 30 | 2 56 | 0 58 | 8 10 | 0 58 | 1 59 | 1 33 | 13 40 | 2 11 | 20 15 | 0 11 | 7 5 | 1 5 | 23 47 | 3 0 | 4 52 | 4 28 | 28 19 | 17 41 | 4 24 |
| T 17 | 13 26 | 26 12 | 4 23 | 18 49 | 0 41 | 2 25 | 0 55 | 7 55 | 0 58 | 1 58 | 1 33 | 13 41 | 2 11 | 20 15 | 0 11 | 7 6 | 1 5 | 23 47 | 3 0 | 4 54 | 4 30 | 28 19 | 17 41 | 4 25 |
| F 18 | 13 6 | 23 10 | 3 41 | 18 32 | 0 52 | 1 54 | 0 53 | 7 40 | 0 57 | 1 56 | 1 33 | 13 42 | 2 11 | 20 15 | 0 11 | 7 7 | 1 5 | 23 46 | 3 1 | 4 55 | 4 31 | 28 18 | 17 40 | 4 25 |
| S 19 | 12 47 | 19 5 | 2 49 | 18 12 | 1 1 | 1 23 | 0 51 | 7 25 | 0 57 | 1 54 | 1 34 | 13 44 | 2 10 | 20 15 | 0 11 | 7 7 | 1 5 | 23 46 | 3 1 | 4 56 | 4 32 | 28 18 | 17 40 | 4 25 |
| S 20 | 12 27 | 14 9 | 1 49 | 17 49 | 1 10 | 0 52 | 0 48 | 7 10 | 0 56 | 1 52 | 1 34 | 13 45 | 2 10 | 20 15 | 0 11 | 7 8 | 1 5 | 23 46 | 3 1 | 4 57 | 4 33 | 28 17 | 17 40 | 4 26 |
| M21 | 12 7 | 8 34 | 0 42 | 17 24 | 1 18 | 0 21 | 0 46 | 6 55 | 0 56 | 1 50 | 1 34 | 13 46 | 2 10 | 20 16 | 0 11 | 7 8 | 1 5 | 23 46 | 3 1 | 4 58 | 4 35 | 28 17 | 17 40 | 4 26 |
| T 22 | 11 47 | 2 34 | 0n28 | 16 56 | 1 24 | 0s10 | 0 43 | 6 39 | 0 56 | 1 48 | 1 34 | 13 47 | 2 10 | 20 16 | 0 11 | 7 9 | 1 5 | 23 46 | 3 1 | 4 58 | 4 36 | 28 16 | 17 40 | 4 27 |
| W23 | 11 27 | 3n38 | 1 37 | 16 26 | 1 30 | 0 41 | 0 40 | 6 24 | 0 55 | 1 46 | 1 35 | 13 49 | 2 9 | 20 16 | 0 11 | 7 10 | 1 5 | 23 46 | 3 1 | 4 57 | 4 37 | 28 16 | 17 40 | 4 27 |
| T 24 | 11 6 | 9 47 | 2 43 | 15 54 | 1 35 | 1 12 | 0 37 | 6 9 | 0 55 | 1 44 | 1 35 | 13 50 | 2 9 | 20 16 | 0 11 | 7 10 | 1 5 | 23 45 | 3 1 | 4 57 | 4 38 | 28 15 | 17 40 | 4 28 |
| F 25 | 10 46 | 15 36 | 3 41 | 15 20 | 1 39 | 1 44 | 0 35 | 5 54 | 0 55 | 1 42 | 1 35 | 13 51 | 2 9 | 20 16 | 0 11 | 7 11 | 1 5 | 23 45 | 3 1 | 4 56 | 4 40 | 28 14 | 17 39 | 4 28 |
| S 26 | 10 25 | 20 46 | 4 28 | 14 43 | 1 42 | 2 15 | 0 32 | 5 38 | 0 54 | 1 40 | 1 35 | 13 53 | 2 9 | 20 16 | 0 11 | 7 12 | 1 5 | 23 45 | 3 1 | 4 56 | 4 41 | 28 14 | 17 39 | 4 28 |
| S 27 | 10 4 | 24 56 | 5 0 | 14 5 | 1 45 | 2 46 | 0 29 | 5 23 | 0 54 | 1 37 | 1 36 | 13 54 | 2 9 | 20 16 | 0 11 | 7 12 | 1 5 | 23 45 | 3 2 | 4 56 | 4 42 | 28 13 | 17 39 | 4 29 |
| M28 | 9 42 | 27 40 | 5 15 | 13 26 | 1 46 | 3 17 | 0 26 | 5 7 | 0 53 | 1 35 | 1 36 | 13 55 | 2 8 | 20 16 | 0 11 | 7 13 | 1 5 | 23 45 | 3 2 | 4 56 | 4 43 | 28 13 | 17 39 | 4 29 |
| T 29 | 9 21 | 28 39 | 5 11 | 12 45 | 1 47 | 3 48 | 0 23 | 4 52 | 0 53 | 1 33 | 1 36 | 13 57 | 2 8 | 20 17 | 0 11 | 7 13 | 1 5 | 23 45 | 3 2 | 4 56 | 4 45 | 28 12 | 17 39 | 4 30 |
| W30 | 9 0 | 27 41 | 4 47 | 12 2 | 1 47 | 4 19 | 0 20 | 4 36 | 0 52 | 1 30 | 1 36 | 13 58 | 2 8 | 20 17 | 0 11 | 7 14 | 1 5 | 23 44 | 3 2 | 4 57 | 4 46 | 28 11 | 17 38 | 4 30 |
| T 31 | 8n38 | 24n51 | 4n 5 | 11n19 | 1n46 | 4s50 | 0n17 | 4n21 | 0n52 | 1n28 | 1s36 | 14s 0 | 2n 8 | 20n17 | 0s11 | 7s15 | 1s 5 | 23n44 | 3n 2 | 4s57 | 4s47 | 28s11 | 17n38 | 4s31 |

Julian Day Number = 2338532.5, Delta T = 18.14 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'16, Lahiri = 19°32'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## SEPTEMBER 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 22 42 11 | 8♍50'40 | 11♌21 | 7♍ 0 | 14♎ 3 | 21♍43 | 7°R17 | 13♏55 | 1♊20 | 14°R 7 | 27♋11 | 17°R29 | 17♓52 | 6♉47 | 10♊47 | F 1 |
| S 2 | 22 46 8 | 9°48'55 | 25°50 | 8°55 | 15°15 | 22°22 | 7♈11 | 13°59 | 1°20 | 14♓ 6 | 27°13 | 17♓28 | 17°49 | 6°54 | 10°48 | S 2 |
| S 3 | 22 50 5 | 10°47'11 | 10♍ 8 | 10°50 | 16°27 | 23° 0 | 7° 5 | 14° 4 | 1°20 | 14° 4 | 27°14 | 17°27 | 17°45 | 7° 1 | 10°49 | S 3 |
| M 4 | 22 54 1 | 11°45'30 | 24° 9 | 12°43 | 17°38 | 23°39 | 6°58 | 14° 8 | 1°20 | 14° 2 | 27°15 | 17°D27 | 17°42 | 7° 8 | 10°50 | M 4 |
| T 5 | 22 57 58 | 12°43'50 | 7♎51 | 14°35 | 18°50 | 24°18 | 6°51 | 14°13 | 1°20 | 14° 1 | 27°16 | 17°28 | 17°39 | 7°14 | 10°51 | T 5 |
| W 6 | 23 1 54 | 13°42'12 | 21°10 | 16°27 | 20° 1 | 24°57 | 6°45 | 14°17 | 1°R20 | 13°59 | 27°18 | 17°28 | 17°36 | 7°21 | 10°52 | W 6 |
| T 7 | 23 5 51 | 14°40'35 | 4♏ 8 | 18°17 | 21°13 | 25°35 | 6°38 | 14°22 | 1°20 | 13°57 | 27°19 | 17°28 | 17°33 | 7°28 | 10°53 | T 7 |
| F 8 | 23 9 47 | 15°39'00 | 16°46 | 20° 6 | 22°24 | 26°14 | 6°31 | 14°27 | 1°20 | 13°56 | 27°20 | 17°29 | 17°29 | 7°34 | 10°53 | F 8 |
| S 9 | 23 13 44 | 16°37'27 | 29° 6 | 21°54 | 23°36 | 26°53 | 6°24 | 14°31 | 1°20 | 13°54 | 27°21 | 17°29 | 17°26 | 7°41 | 10°54 | S 9 |
| S 10 | 23 17 40 | 17°35'55 | 11♐13 | 23°41 | 24°47 | 27°32 | 6°17 | 14°36 | 1°20 | 13°53 | 27°22 | 17°29 | 17°23 | 7°48 | 10°55 | S 10 |
| M11 | 23 21 37 | 18°34'26 | 23°11 | 25°27 | 25°58 | 28°11 | 6° 9 | 14°41 | 1°20 | 13°51 | 27°24 | 17°29 | 17°20 | 7°55 | 10°55 | M11 |
| T 12 | 23 25 34 | 19°32'57 | 5♑ 4 | 27°12 | 27°10 | 28°50 | 6° 2 | 14°46 | 1°19 | 13°49 | 27°25 | 17°29 | 17°17 | 8° 1 | 10°56 | T 12 |
| W13 | 23 29 30 | 20°31'31 | 16°57 | 28°56 | 28°21 | 29°29 | 5°55 | 14°51 | 1°19 | 13°48 | 27°26 | 17°29 | 17°14 | 8° 8 | 10°56 | W13 |
| T 14 | 23 33 27 | 21°30'06 | 28°55 | 0♒39 | 29°32 | 0♒ 8 | 5°47 | 14°56 | 1°19 | 13°46 | 27°27 | 17°29 | 17°10 | 8°15 | 10°56 | T 14 |
| F 15 | 23 37 23 | 22°28'43 | 11♓ 1 | 2°21 | 0♏43 | 0°47 | 5°39 | 15° 1 | 1°18 | 13°44 | 27°28 | 17°30 | 17° 7 | 8°21 | 10°56 | F 15 |
| S 16 | 23 41 20 | 23°27'21 | 23°18 | 4° 1 | 1°54 | 1°26 | 5°32 | 15° 7 | 1°18 | 13°43 | 27°29 | 17°31 | 17° 4 | 8°28 | 10°57 | S 16 |
| S 17 | 23 45 16 | 24°26'02 | 5♓49 | 5°41 | 3° 5 | 2° 5 | 5°24 | 15°12 | 1°17 | 13°41 | 27°30 | 17°31 | 17° 1 | 8°35 | 10°R57 | S 17 |
| M18 | 23 49 13 | 25°24'44 | 18°36 | 7°20 | 4°16 | 2°45 | 5°16 | 15°17 | 1°17 | 13°39 | 27°31 | 17°R31 | 16°58 | 8°42 | 10°57 | M18 |
| T 19 | 23 53 9 | 26°23'28 | 1♈38 | 8°58 | 5°27 | 3°24 | 5° 8 | 15°23 | 1°16 | 13°38 | 27°32 | 17°31 | 16°54 | 8°48 | 10°57 | T 19 |
| W20 | 23 57 6 | 27°22'14 | 14°57 | 10°35 | 6°38 | 4° 3 | 5° 0 | 15°28 | 1°15 | 13°36 | 27°33 | 17°30 | 16°51 | 8°55 | 10°56 | W20 |
| T 21 | 0 1 2 | 28°21'03 | 28°30 | 12°10 | 7°49 | 4°42 | 4°52 | 15°34 | 1°15 | 13°35 | 27°34 | 17°29 | 16°48 | 9° 2 | 10°56 | T 21 |
| F 22 | 0 4 59 | 29°19'53 | 12♉15 | 13°45 | 8°59 | 5°22 | 4°44 | 15°39 | 1°14 | 13°33 | 27°35 | 17°27 | 16°45 | 9° 8 | 10°56 | F 22 |
| S 23 | 0 8 56 | 0♎18'46 | 26°11 | 15°20 | 10°10 | 6° 1 | 4°36 | 15°45 | 1°13 | 13°31 | 27°36 | 17°26 | 16°42 | 9°15 | 10°55 | S 23 |
| S 24 | 0 12 52 | 1°17'41 | 10♊14 | 16°53 | 11°20 | 6°40 | 4°28 | 15°51 | 1°12 | 13°30 | 27°37 | 17°25 | 16°39 | 9°22 | 10°55 | S 24 |
| M25 | 0 16 49 | 2°16'39 | 24°23 | 18°25 | 12°31 | 7°20 | 4°20 | 15°57 | 1°11 | 13°28 | 27°37 | 17°24 | 16°35 | 9°29 | 10°55 | M25 |
| T 26 | 0 20 45 | 3°15'39 | 8♋35 | 19°57 | 13°41 | 7°59 | 4°12 | 16° 2 | 1°10 | 13°27 | 27°38 | 17°D24 | 16°32 | 9°35 | 10°54 | T 26 |
| W27 | 0 24 42 | 4°14'41 | 22°48 | 21°27 | 14°52 | 8°39 | 4° 4 | 16° 8 | 1° 9 | 13°25 | 27°39 | 17°24 | 16°29 | 9°42 | 10°53 | W27 |
| T 28 | 0 28 38 | 5°13'45 | 7♌ 0 | 22°57 | 16° 2 | 9°18 | 3°56 | 16°14 | 1° 8 | 13°24 | 27°40 | 17°26 | 16°26 | 9°49 | 10°53 | T 28 |
| F 29 | 0 32 35 | 6°12'52 | 21° 7 | 24°26 | 17°12 | 9°58 | 3°48 | 16°20 | 1° 7 | 13°22 | 27°41 | 17°27 | 16°23 | 9°55 | 10°52 | F 29 |
| S 30 | 0 36 31 | 7♎12'01 | 5♍ 8 | 25♎54 | 18♏23 | 10♎37 | 3♈40 | 16♏26 | 1♊ 6 | 13♓21 | 27♋41 | 17♓28 | 16♓20 | 10♉ 2 | 10♊51 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 8n16 | 20n24 | 3n 7 | 10n35 | 1n45 | 5s21 | 0n14 | 4n 5 | 0n52 | 1n25 | 1s37 | 14s 1 | 2n 7 | 20n17 | 0s11 | 7s15 | 1s 5 | 23n44 | 3n 2 | 4s57 | 4s48 | 28s10 | 17n38 | 4s31 |
| S 2 | 7 54 | 14 46 | 1 57 | 9 50 | 1 43 | 5 51 | 0 10 | 3 49 | 0 51 | 1 22 | 1 37 | 14 2 | 2 7 | 20 17 | 0 11 | 7 16 | 1 5 | 23 44 | 3 2 | 4 58 | 4 50 | 28 10 | 17 38 | 4 31 |
| S 3 | 7 32 | 8 24 | 0 40 | 9 4 | 1 41 | 6 22 | 0 7 | 3 34 | 0 51 | 1 20 | 1 37 | 14 4 | 2 7 | 20 17 | 0 11 | 7 17 | 1 5 | 23 44 | 3 2 | 4 58 | 4 51 | 28 9 | 17 37 | 4 32 |
| M 4 | 7 10 | 1 45 | 0s37 | 8 18 | 1 38 | 6 52 | 0 4 | 3 18 | 0 50 | 1 17 | 1 37 | 14 5 | 2 7 | 20 17 | 0 11 | 7 17 | 1 5 | 23 44 | 3 2 | 4 58 | 4 52 | 28 8 | 17 37 | 4 32 |
| T 5 | 6 48 | 4s49 | 1 51 | 7 32 | 1 35 | 7 23 | 0 1 | 3 2 | 0 50 | 1 14 | 1 37 | 14 7 | 2 7 | 20 17 | 0 11 | 7 18 | 1 5 | 23 44 | 3 3 | 4 58 | 4 53 | 28 8 | 17 37 | 4 33 |
| W 6 | 6 25 | 11 0 | 2 56 | 6 45 | 1 31 | 7 53 | 0s 3 | 2 46 | 0 50 | 1 11 | 1 37 | 14 9 | 2 6 | 20 17 | 0 11 | 7 19 | 1 5 | 23 43 | 3 3 | 4 58 | 4 55 | 28 7 | 17 36 | 4 33 |
| T 7 | 6 3 | 16 32 | 3 51 | 5 58 | 1 27 | 8 23 | 0 6 | 2 30 | 0 49 | 1 9 | 1 38 | 14 10 | 2 6 | 20 17 | 0 11 | 7 19 | 1 5 | 23 43 | 3 3 | 4 57 | 4 56 | 28 6 | 17 36 | 4 34 |
| F 8 | 5 40 | 21 14 | 4 33 | 5 11 | 1 22 | 8 53 | 0 9 | 2 15 | 0 49 | 1 6 | 1 38 | 14 12 | 2 6 | 20 17 | 0 11 | 7 20 | 1 5 | 23 43 | 3 3 | 4 57 | 4 57 | 28 5 | 17 36 | 4 34 |
| S 9 | 5 17 | 24 53 | 5 1 | 4 24 | 1 17 | 9 23 | 0 13 | 1 59 | 0 48 | 1 3 | 1 38 | 14 13 | 2 6 | 20 17 | 0 11 | 7 21 | 1 5 | 23 43 | 3 3 | 4 57 | 4 58 | 28 5 | 17 35 | 4 34 |
| S 10 | 4 55 | 27 22 | 5 15 | 3 37 | 1 12 | 9 52 | 0 16 | 1 43 | 0 48 | 1 0 | 1 38 | 14 15 | 2 6 | 20 17 | 0 11 | 7 21 | 1 5 | 23 43 | 3 3 | 4 57 | 5 0 | 28 4 | 17 35 | 4 35 |
| M11 | 4 32 | 28 33 | 5 15 | 2 50 | 1 7 | 10 21 | 0 20 | 1 27 | 0 47 | 0 57 | 1 38 | 14 17 | 2 5 | 20 17 | 0 11 | 7 22 | 1 5 | 23 43 | 3 3 | 4 57 | 5 1 | 28 3 | 17 35 | 4 35 |
| T 12 | 4 9 | 28 25 | 5 2 | 2 3 | 1 1 | 10 51 | 0 23 | 1 11 | 0 47 | 0 54 | 1 38 | 14 18 | 2 5 | 20 17 | 0 11 | 7 23 | 1 5 | 23 43 | 3 3 | 4 57 | 5 2 | 28 3 | 17 34 | 4 36 |
| W13 | 3 46 | 26 58 | 4 36 | 1 16 | 0 55 | 11 19 | 0 27 | 0 55 | 0 47 | 0 51 | 1 38 | 14 20 | 2 5 | 20 17 | 0 11 | 7 23 | 1 5 | 23 43 | 3 4 | 4 57 | 5 3 | 28 2 | 17 34 | 4 36 |
| T 14 | 3 23 | 24 17 | 3 58 | 0 29 | 0 49 | 11 48 | 0 30 | 0 39 | 0 46 | 0 48 | 1 38 | 14 22 | 2 5 | 20 17 | 0 11 | 7 24 | 1 5 | 23 43 | 3 4 | 4 57 | 5 5 | 28 1 | 17 33 | 4 37 |
| F 15 | 2 59 | 20 31 | 3 9 | 0s17 | 0 42 | 12 17 | 0 34 | 0 23 | 0 46 | 0 45 | 1 39 | 14 23 | 2 5 | 20 16 | 0 11 | 7 24 | 1 5 | 23 42 | 3 4 | 4 57 | 5 6 | 28 0 | 17 33 | 4 37 |
| S 16 | 2 36 | 15 49 | 2 10 | 1 3 | 0 36 | 12 45 | 0 38 | 0 7 | 0 45 | 0 41 | 1 39 | 14 25 | 2 4 | 20 16 | 0 11 | 7 25 | 1 5 | 23 42 | 3 4 | 4 57 | 5 7 | 28 0 | 17 33 | 4 38 |
| S 17 | 2 13 | 10 23 | 1 4 | 1 49 | 0 29 | 13 13 | 0 41 | 0s 9 | 0 45 | 0 38 | 1 39 | 14 27 | 2 4 | 20 16 | 0 11 | 7 26 | 1 5 | 23 42 | 3 4 | 4 56 | 5 8 | 27 59 | 17 32 | 4 38 |
| M18 | 1 50 | 4 26 | 0n 6 | 2 34 | 0 22 | 13 40 | 0 45 | 0 25 | 0 44 | 0 35 | 1 39 | 14 28 | 2 4 | 20 16 | 0 11 | 7 26 | 1 5 | 23 42 | 3 4 | 4 56 | 5 9 | 27 58 | 17 32 | 4 38 |
| T 19 | 1 26 | 1n50 | 1 17 | 3 19 | 0 15 | 14 7 | 0 48 | 0 41 | 0 44 | 0 32 | 1 39 | 14 30 | 2 4 | 20 16 | 0 11 | 7 27 | 1 5 | 23 42 | 3 4 | 4 57 | 5 11 | 27 57 | 17 31 | 4 39 |
| W20 | 1 3 | 8 9 | 2 26 | 4 4 | 0 8 | 14 34 | 0 52 | 0 57 | 0 44 | 0 29 | 1 39 | 14 32 | 2 4 | 20 16 | 0 11 | 7 28 | 1 5 | 23 42 | 3 5 | 4 57 | 5 12 | 27 56 | 17 31 | 4 39 |
| T 21 | 0 39 | 14 11 | 3 28 | 4 48 | 0 1 | 15 1 | 0 56 | 1 13 | 0 43 | 0 26 | 1 39 | 14 34 | 2 3 | 20 16 | 0 11 | 7 28 | 1 5 | 23 42 | 3 5 | 4 57 | 5 13 | 27 56 | 17 30 | 4 40 |
| F 22 | 0 16 | 19 38 | 4 18 | 5 32 | 0s 6 | 15 27 | 0 59 | 1 29 | 0 43 | 0 22 | 1 39 | 14 35 | 2 3 | 20 16 | 0 11 | 7 29 | 1 5 | 23 42 | 3 5 | 4 58 | 5 14 | 27 55 | 17 30 | 4 40 |
| S 23 | 0s 7 | 24 6 | 4 54 | 6 15 | 0 13 | 15 53 | 1 3 | 1 45 | 0 42 | 0 19 | 1 39 | 14 37 | 2 3 | 20 15 | 0 11 | 7 29 | 1 5 | 23 42 | 3 5 | 4 58 | 5 16 | 27 54 | 17 29 | 4 41 |
| S 24 | 0 31 | 27 11 | 5 13 | 6 57 | 0 20 | 16 19 | 1 7 | 2 1 | 0 42 | 0 16 | 1 39 | 14 39 | 2 3 | 20 15 | 0 11 | 7 30 | 1 5 | 23 42 | 3 5 | 4 59 | 5 17 | 27 53 | 17 29 | 4 41 |
| M25 | 0 54 | 28 35 | 5 13 | 7 39 | 0 28 | 16 44 | 1 10 | 2 17 | 0 41 | 0 13 | 1 39 | 14 41 | 2 3 | 20 15 | 0 11 | 7 31 | 1 5 | 23 42 | 3 5 | 4 59 | 5 18 | 27 52 | 17 28 | 4 42 |
| T 26 | 1 18 | 28 6 | 4 54 | 8 21 | 0 35 | 17 9 | 1 14 | 2 33 | 0 41 | 0 10 | 1 39 | 14 43 | 2 3 | 20 15 | 0 11 | 7 31 | 1 5 | 23 42 | 3 5 | 4 59 | 5 19 | 27 52 | 17 28 | 4 42 |
| W27 | 1 41 | 25 47 | 4 18 | 9 2 | 0 42 | 17 34 | 1 18 | 2 49 | 0 40 | 0 6 | 1 39 | 14 44 | 2 2 | 20 15 | 0 11 | 7 32 | 1 5 | 23 42 | 3 5 | 4 59 | 5 21 | 27 51 | 17 27 | 4 42 |
| T 28 | 2 5 | 21 52 | 3 25 | 9 42 | 0 49 | 17 58 | 1 21 | 3 5 | 0 40 | 0 3 | 1 39 | 14 46 | 2 2 | 20 14 | 0 11 | 7 32 | 1 5 | 23 42 | 3 6 | 4 59 | 5 22 | 27 50 | 17 27 | 4 43 |
| F 29 | 2 28 | 16 42 | 2 20 | 10 22 | 0 57 | 18 21 | 1 25 | 3 21 | 0 39 | 0s 0 | 1 39 | 14 48 | 2 2 | 20 14 | 0 11 | 7 33 | 1 5 | 23 42 | 3 6 | 4 58 | 5 23 | 27 49 | 17 26 | 4 43 |
| S 30 | 2s52 | 10n42 | 1n 7 | 11s 1 | 1s 4 | 18s45 | 1s28 | 3s37 | 0n39 | 0s 3 | 1s39 | 14s50 | 2n 2 | 20n14 | 0s11 | 7s33 | 1s 5 | 23n42 | 3n 6 | 4s58 | 5s24 | 27s48 | 17n26 | 4s44 |

Julian Day Number = 2338563.5, Delta T = 18.10 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'20, Lahiri = 19°32'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## OCTOBER 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 40 28 | 8♎11'12 | 18♍59 | 27♎21 | 19♏33 | 11♎17 | 3°R32 | 16♏32 | 1°R 5 | 13°R19 | 27♋42 | 17°R28 | 16♓16 | 10♉ 9 | 10°R50 | S 1 |
| M 2 | 0 44 25 | 9°10'26 | 2♎39 | 28°47 | 20°43 | 11°57 | 3♈24 | 16°38 | 1♊ 4 | 13♓18 | 27°43 | 17♓28 | 16°13 | 10°16 | 10♊49 | M 2 |
| T 3 | 0 48 21 | 10° 9'41 | 16° 4 | 0♏12 | 21°53 | 12°36 | 3°16 | 16°45 | 1° 2 | 13°16 | 27°44 | 17°26 | 16°10 | 10°22 | 10°48 | T 3 |
| W 4 | 0 52 18 | 11° 8'58 | 29°13 | 1°36 | 23° 3 | 13°16 | 3° 8 | 16°51 | 1° 1 | 13°15 | 27°44 | 17°23 | 16° 7 | 10°29 | 10°47 | W 4 |
| T 5 | 0 56 14 | 12° 8'18 | 12♏ 4 | 3° 0 | 24°13 | 13°56 | 3° 0 | 16°57 | 0°59 | 13°14 | 27°45 | 17°19 | 16° 4 | 10°36 | 10°45 | T 5 |
| F 6 | 1 0 11 | 13° 7'39 | 24°39 | 4°22 | 25°23 | 14°36 | 2°52 | 17° 3 | 0°58 | 13°12 | 27°45 | 17°15 | 16° 0 | 10°42 | 10°44 | F 6 |
| S 7 | 1 4 7 | 14° 7'03 | 6♐59 | 5°43 | 26°32 | 15°16 | 2°45 | 17°10 | 0°57 | 13°11 | 27°46 | 17°11 | 15°57 | 10°49 | 10°43 | S 7 |
| S 8 | 1 8 4 | 15° 6'28 | 19° 6 | 7° 4 | 27°42 | 15°56 | 2°37 | 17°16 | 0°55 | 13°10 | 27°46 | 17° 7 | 15°54 | 10°56 | 10°41 | S 8 |
| M 9 | 1 12 0 | 16° 5'55 | 1♑ 4 | 8°23 | 28°51 | 16°35 | 2°29 | 17°23 | 0°54 | 13° 8 | 27°47 | 17° 5 | 15°51 | 11° 2 | 10°40 | M 9 |
| T 10 | 1 15 57 | 17° 5'24 | 12°56 | 9°41 | 0♐ 1 | 17°15 | 2°22 | 17°29 | 0°52 | 13° 7 | 27°48 | 17°D 4 | 15°48 | 11° 9 | 10°38 | T 10 |
| W11 | 1 19 54 | 18° 4'55 | 24°48 | 10°57 | 1°10 | 17°55 | 2°14 | 17°36 | 0°50 | 13° 6 | 27°48 | 17° 4 | 15°45 | 11°16 | 10°36 | W11 |
| T 12 | 1 23 50 | 19° 4'27 | 6♒45 | 12°12 | 2°19 | 18°36 | 2° 7 | 17°42 | 0°49 | 13° 4 | 27°48 | 17° 5 | 15°41 | 11°23 | 10°35 | T 12 |
| F 13 | 1 27 47 | 20° 4'01 | 18°51 | 13°26 | 3°29 | 19°16 | 2° 0 | 17°49 | 0°47 | 13° 3 | 27°49 | 17° 7 | 15°38 | 11°29 | 10°33 | F 13 |
| S 14 | 1 31 43 | 21° 3'37 | 1♓11 | 14°38 | 4°38 | 19°56 | 1°52 | 17°55 | 0°45 | 13° 2 | 27°49 | 17° 8 | 15°35 | 11°36 | 10°31 | S 14 |
| S 15 | 1 35 40 | 22° 3'14 | 13°49 | 15°49 | 5°46 | 20°36 | 1°45 | 18° 2 | 0°43 | 13° 1 | 27°50 | 17°R 9 | 15°32 | 11°43 | 10°29 | S 15 |
| M16 | 1 39 36 | 23° 2'54 | 26°48 | 16°57 | 6°55 | 21°16 | 1°38 | 18° 9 | 0°42 | 12°59 | 27°50 | 17° 9 | 15°29 | 11°49 | 10°27 | M16 |
| T 17 | 1 43 33 | 24° 2'35 | 10♈ 8 | 18° 3 | 8° 4 | 21°56 | 1°31 | 18°15 | 0°40 | 12°58 | 27°50 | 17° 7 | 15°26 | 11°56 | 10°25 | T 17 |
| W18 | 1 47 29 | 25° 2'18 | 23°50 | 19° 7 | 9°13 | 22°37 | 1°25 | 18°22 | 0°38 | 12°57 | 27°51 | 17° 3 | 15°22 | 12° 3 | 10°23 | W18 |
| T 19 | 1 51 26 | 26° 2'04 | 7♉50 | 20° 9 | 10°21 | 23°17 | 1°18 | 18°29 | 0°36 | 12°56 | 27°51 | 16°57 | 15°19 | 12°10 | 10°21 | T 19 |
| F 20 | 1 55 23 | 27° 1'51 | 22° 5 | 21° 8 | 11°29 | 23°57 | 1°12 | 18°36 | 0°34 | 12°55 | 27°51 | 16°51 | 15°16 | 12°16 | 10°19 | F 20 |
| S 21 | 1 59 19 | 28° 1'41 | 6♊29 | 22° 3 | 12°38 | 24°38 | 1° 5 | 18°42 | 0°32 | 12°54 | 27°51 | 16°45 | 15°13 | 12°23 | 10°16 | S 21 |
| S 22 | 2 3 16 | 29° 1'32 | 20°55 | 22°56 | 13°46 | 25°18 | 0°59 | 18°49 | 0°30 | 12°53 | 27°52 | 16°39 | 15°10 | 12°30 | 10°14 | S 22 |
| M23 | 2 7 12 | 0♏ 1'26 | 5♋20 | 23°44 | 14°54 | 25°58 | 0°53 | 18°56 | 0°28 | 12°52 | 27°52 | 16°35 | 15° 6 | 12°36 | 10°12 | M23 |
| T 24 | 2 11 9 | 1° 1'22 | 19°38 | 24°29 | 16° 2 | 26°39 | 0°47 | 19° 3 | 0°26 | 12°51 | 27°52 | 16°32 | 15° 3 | 12°43 | 10° 9 | T 24 |
| W25 | 2 15 5 | 2° 1'21 | 3♌47 | 25° 8 | 17° 9 | 27°20 | 0°41 | 19°10 | 0°24 | 12°50 | 27°52 | 16°D32 | 15° 0 | 12°50 | 10° 7 | W25 |
| T 26 | 2 19 2 | 3° 1'21 | 17°45 | 25°43 | 18°17 | 28° 0 | 0°35 | 19°17 | 0°22 | 12°49 | 27°52 | 16°32 | 14°57 | 12°57 | 10° 4 | T 26 |
| F 27 | 2 22 58 | 4° 1'24 | 1♍32 | 26°12 | 19°24 | 28°41 | 0°30 | 19°24 | 0°19 | 12°48 | 27°52 | 16°34 | 14°54 | 13° 3 | 10° 1 | F 27 |
| S 28 | 2 26 55 | 5° 1'29 | 15° 8 | 26°34 | 20°32 | 29°21 | 0°25 | 19°31 | 0°17 | 12°47 | 27°52 | 16°R34 | 14°51 | 13°10 | 9°59 | S 28 |
| S 29 | 2 30 52 | 6° 1'36 | 28°34 | 26°50 | 21°39 | 0♏ 2 | 0°19 | 19°38 | 0°15 | 12°46 | 27°R52 | 16°34 | 14°47 | 13°17 | 9°56 | S 29 |
| M30 | 2 34 48 | 7° 1'45 | 11♎48 | 26°R57 | 22°46 | 0°43 | 0°14 | 19°45 | 0°13 | 12°46 | 27°52 | 16°31 | 14°44 | 13°23 | 9°53 | M30 |
| T 31 | 2 38 45 | 8♏ 1'55 | 24♎51 | 26♏57 | 23♐53 | 1♏24 | 0♈10 | 19♏52 | 0♊11 | 12♓45 | 27♋52 | 16♓25 | 14♓41 | 13♉30 | 9♊50 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s15 | 4n14 | 0s 8 | 11s39 | 1s11 | 19s 7 | 1s32 | 3s53 | 0n38 | 0s 6 | 1s39 | 14s52 | 2n 2 | 20n14 | 0s11 | 7s34 | 1s 5 | 23n42 | 3n 6 | 4s58 | 5s26 | 27s47 | 17n25 | 4s44 |
| M 2 | 3 39 | 2s19 | 1 23 | 12 17 | 1 18 | 19 30 | 1 35 | 4 9 | 0 38 | 0 10 | 1 39 | 14 54 | 2 2 | 20 13 | 0 11 | 7 35 | 1 5 | 23 42 | 3 6 | 4 58 | 5 27 | 27 46 | 17 25 | 4 45 |
| T 3 | 4 2 | 8 39 | 2 31 | 12 53 | 1 25 | 19 52 | 1 39 | 4 25 | 0 38 | 0 13 | 1 39 | 14 56 | 2 2 | 20 13 | 0 11 | 7 35 | 1 5 | 23 42 | 3 6 | 4 59 | 5 28 | 27 45 | 17 24 | 4 45 |
| W 4 | 4 25 | 14 29 | 3 29 | 13 30 | 1 32 | 20 13 | 1 42 | 4 41 | 0 37 | 0 16 | 1 39 | 14 58 | 2 1 | 20 13 | 0 11 | 7 36 | 1 5 | 23 42 | 3 7 | 5 0 | 5 29 | 27 44 | 17 23 | 4 45 |
| T 5 | 4 48 | 19 33 | 4 16 | 14 5 | 1 39 | 20 34 | 1 46 | 4 57 | 0 37 | 0 19 | 1 39 | 14 59 | 2 1 | 20 13 | 0 11 | 7 36 | 1 5 | 23 42 | 3 7 | 5 1 | 5 30 | 27 44 | 17 23 | 4 46 |
| F 6 | 5 12 | 23 38 | 4 49 | 14 39 | 1 46 | 20 54 | 1 49 | 5 13 | 0 36 | 0 22 | 1 39 | 15 1 | 2 1 | 20 12 | 0 11 | 7 37 | 1 5 | 23 42 | 3 7 | 5 3 | 5 32 | 27 43 | 17 22 | 4 46 |
| S 7 | 5 35 | 26 34 | 5 8 | 15 13 | 1 52 | 21 14 | 1 53 | 5 28 | 0 36 | 0 25 | 1 39 | 15 3 | 2 1 | 20 12 | 0 11 | 7 37 | 1 5 | 23 42 | 3 7 | 5 4 | 5 33 | 27 42 | 17 22 | 4 47 |
| S 8 | 5 58 | 28 14 | 5 13 | 15 46 | 1 58 | 21 34 | 1 56 | 5 44 | 0 35 | 0 28 | 1 39 | 15 5 | 2 1 | 20 12 | 0 11 | 7 38 | 1 5 | 23 42 | 3 7 | 5 6 | 5 34 | 27 41 | 17 21 | 4 47 |
| M 9 | 6 21 | 28 32 | 5 4 | 16 17 | 2 5 | 21 53 | 1 59 | 6 0 | 0 35 | 0 31 | 1 39 | 15 7 | 2 1 | 20 11 | 0 11 | 7 38 | 1 5 | 23 42 | 3 7 | 5 7 | 5 35 | 27 40 | 17 20 | 4 47 |
| T 10 | 6 43 | 27 32 | 4 42 | 16 48 | 2 11 | 22 11 | 2 3 | 6 16 | 0 34 | 0 34 | 1 38 | 15 9 | 2 1 | 20 11 | 0 11 | 7 39 | 1 5 | 23 42 | 3 7 | 5 7 | 5 37 | 27 39 | 17 20 | 4 48 |
| W11 | 7 6 | 25 16 | 4 8 | 17 18 | 2 16 | 22 29 | 2 6 | 6 32 | 0 34 | 0 37 | 1 38 | 15 11 | 2 0 | 20 11 | 0 11 | 7 39 | 1 5 | 23 42 | 3 8 | 5 7 | 5 38 | 27 38 | 17 19 | 4 48 |
| T 12 | 7 29 | 21 53 | 3 23 | 17 47 | 2 22 | 22 46 | 2 9 | 6 47 | 0 33 | 0 40 | 1 38 | 15 13 | 2 0 | 20 10 | 0 11 | 7 40 | 1 5 | 23 42 | 3 8 | 5 7 | 5 39 | 27 37 | 17 19 | 4 49 |
| F 13 | 7 51 | 17 33 | 2 28 | 18 14 | 2 27 | 23 3 | 2 12 | 7 3 | 0 33 | 0 42 | 1 38 | 15 15 | 2 0 | 20 10 | 0 11 | 7 40 | 1 5 | 23 42 | 3 8 | 5 6 | 5 40 | 27 36 | 17 18 | 4 49 |
| S 14 | 8 14 | 12 25 | 1 26 | 18 41 | 2 32 | 23 19 | 2 15 | 7 19 | 0 32 | 0 45 | 1 38 | 15 17 | 2 0 | 20 10 | 0 11 | 7 41 | 1 5 | 23 42 | 3 8 | 5 5 | 5 42 | 27 35 | 17 17 | 4 49 |
| S 15 | 8 36 | 6 39 | 0 18 | 19 6 | 2 37 | 23 34 | 2 18 | 7 34 | 0 32 | 0 48 | 1 38 | 15 19 | 2 0 | 20 9 | 0 11 | 7 41 | 1 5 | 23 42 | 3 8 | 5 5 | 5 43 | 27 34 | 17 17 | 4 50 |
| M16 | 8 58 | 0 28 | 0n52 | 19 30 | 2 41 | 23 49 | 2 21 | 7 50 | 0 31 | 0 50 | 1 38 | 15 21 | 2 0 | 20 9 | 0 11 | 7 41 | 1 5 | 23 42 | 3 8 | 5 5 | 5 44 | 27 33 | 17 16 | 4 50 |
| T 17 | 9 21 | 5n53 | 2 2 | 19 53 | 2 45 | 24 4 | 2 24 | 8 5 | 0 31 | 0 53 | 1 38 | 15 23 | 2 0 | 20 9 | 0 11 | 7 42 | 1 5 | 23 42 | 3 8 | 5 6 | 5 45 | 27 32 | 17 15 | 4 51 |
| W18 | 9 43 | 12 9 | 3 6 | 20 15 | 2 49 | 24 17 | 2 27 | 8 21 | 0 30 | 0 56 | 1 37 | 15 25 | 2 0 | 20 8 | 0 11 | 7 42 | 1 5 | 23 43 | 3 9 | 5 7 | 5 47 | 27 31 | 17 15 | 4 51 |
| T 19 | 10 4 | 17 56 | 4 0 | 20 34 | 2 52 | 24 30 | 2 30 | 8 36 | 0 30 | 0 58 | 1 37 | 15 27 | 2 0 | 20 8 | 0 11 | 7 43 | 1 5 | 23 43 | 3 9 | 5 10 | 5 48 | 27 30 | 17 14 | 4 51 |
| F 20 | 10 26 | 22 50 | 4 41 | 20 53 | 2 55 | 24 43 | 2 32 | 8 51 | 0 29 | 1 1 | 1 37 | 15 29 | 1 59 | 20 7 | 0 11 | 7 43 | 1 5 | 23 43 | 3 9 | 5 12 | 5 49 | 27 29 | 17 13 | 4 52 |
| S 21 | 10 47 | 26 25 | 5 4 | 21 10 | 2 57 | 24 55 | 2 35 | 9 7 | 0 29 | 1 3 | 1 37 | 15 30 | 1 59 | 20 7 | 0 11 | 7 44 | 1 5 | 23 43 | 3 9 | 5 15 | 5 50 | 27 28 | 17 13 | 4 52 |
| S 22 | 11 9 | 28 17 | 5 8 | 21 25 | 2 58 | 25 6 | 2 37 | 9 22 | 0 28 | 1 5 | 1 37 | 15 32 | 1 59 | 20 7 | 0 11 | 7 44 | 1 5 | 23 43 | 3 9 | 5 17 | 5 51 | 27 27 | 17 12 | 4 53 |
| M23 | 11 30 | 28 15 | 4 53 | 21 38 | 2 59 | 25 16 | 2 40 | 9 37 | 0 28 | 1 8 | 1 37 | 15 34 | 1 59 | 20 6 | 0 11 | 7 44 | 1 5 | 23 43 | 3 9 | 5 18 | 5 53 | 27 26 | 17 11 | 4 53 |
| T 24 | 11 51 | 26 19 | 4 19 | 21 49 | 2 59 | 25 26 | 2 42 | 9 52 | 0 27 | 1 10 | 1 36 | 15 36 | 1 59 | 20 6 | 0 11 | 7 45 | 1 5 | 23 43 | 3 9 | 5 19 | 5 54 | 27 25 | 17 10 | 4 53 |
| W25 | 12 12 | 22 45 | 3 30 | 21 58 | 2 58 | 25 35 | 2 45 | 10 8 | 0 27 | 1 12 | 1 36 | 15 38 | 1 59 | 20 5 | 0 11 | 7 45 | 1 5 | 23 43 | 3 10 | 5 20 | 5 55 | 27 24 | 17 10 | 4 54 |
| T 26 | 12 32 | 17 54 | 2 29 | 22 5 | 2 57 | 25 44 | 2 47 | 10 23 | 0 26 | 1 14 | 1 36 | 15 40 | 1 59 | 20 5 | 0 11 | 7 45 | 1 5 | 23 43 | 3 10 | 5 19 | 5 56 | 27 23 | 17 9 | 4 54 |
| F 27 | 12 53 | 12 12 | 1 20 | 22 9 | 2 54 | 25 52 | 2 49 | 10 38 | 0 26 | 1 16 | 1 36 | 15 42 | 1 59 | 20 4 | 0 11 | 7 46 | 1 5 | 23 44 | 3 10 | 5 19 | 5 58 | 27 21 | 17 8 | 4 54 |
| S 28 | 13 13 | 5 59 | 0 8 | 22 11 | 2 50 | 25 59 | 2 51 | 10 53 | 0 25 | 1 18 | 1 36 | 15 44 | 1 59 | 20 4 | 0 11 | 7 46 | 1 5 | 23 44 | 3 10 | 5 19 | 5 59 | 27 20 | 17 8 | 4 55 |
| S 29 | 13 33 | 0s24 | 1s 4 | 22 10 | 2 45 | 26 6 | 2 53 | 11 7 | 0 24 | 1 20 | 1 35 | 15 46 | 1 59 | 20 3 | 0 11 | 7 46 | 1 5 | 23 44 | 3 10 | 5 19 | 6 0 | 27 19 | 17 7 | 4 55 |
| M30 | 13 53 | 6 41 | 2 11 | 22 5 | 2 39 | 26 12 | 2 55 | 11 22 | 0 24 | 1 22 | 1 35 | 15 48 | 1 59 | 20 3 | 0 11 | 7 47 | 1 5 | 23 44 | 3 10 | 5 20 | 6 1 | 27 18 | 17 6 | 4 55 |
| T 31 | 14s13 | 12s36 | 3s11 | 21s58 | 2s31 | 26s17 | 2s56 | 11s37 | 0n23 | 1s23 | 1s35 | 15s50 | 1n58 | 20n 2 | 0s11 | 7s47 | 1s 5 | 23n44 | 3n11 | 5s22 | 6s 2 | 27s17 | 17n 6 | 4s56 |

Julian Day Number = 2338593.5, Delta T = 18.06 sec
Ecliptic obliquity = 23°28'56, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'24, Lahiri = 19°32'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## NOVEMBER 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 2 42 41 | 9♏ 2'08 | 7♏42 | 26°R48 | 24♐59 | 2♏ 5 | 0°R 5 | 19♏59 | 0°R 8 | 12°R44 | 27°R52 | 16°R18 | 14♓38 | 13♑37 | 9°R47 | W 1 |
| T 2 | 2 46 38 | 10° 2'23 | 20°21 | 26♏29 | 26° 6 | 2°45 | 0♈ 0 | 20° 6 | 0♊ 6 | 12♓43 | 27♋52 | 16♓ 8 | 14°35 | 13°43 | 9♊45 | T 2 |
| F 3 | 2 50 34 | 11° 2'39 | 2♐48 | 26° 1 | 27°12 | 3°26 | 29♓56 | 20°13 | 0° 4 | 12°43 | 27°52 | 15°57 | 14°31 | 13°50 | 9°42 | F 3 |
| S 4 | 2 54 31 | 12° 2'57 | 15° 2 | 25°22 | 28°18 | 4° 7 | 29°52 | 20°20 | 0° 1 | 12°42 | 27°52 | 15°47 | 14°28 | 13°57 | 9°39 | S 4 |
| S 5 | 2 58 27 | 13° 3'17 | 27° 6 | 24°34 | 29°24 | 4°48 | 29°48 | 20°27 | 29♉59 | 12°41 | 27°51 | 15°37 | 14°25 | 14° 4 | 9°35 | S 5 |
| M 6 | 3 2 24 | 14° 3'38 | 9♑ 1 | 23°37 | 0♑30 | 5°29 | 29°44 | 20°34 | 29°56 | 12°41 | 27°51 | 15°29 | 14°22 | 14°10 | 9°32 | M 6 |
| T 7 | 3 6 21 | 15° 4'01 | 20°52 | 22°31 | 1°35 | 6°10 | 29°41 | 20°42 | 29°54 | 12°40 | 27°51 | 15°23 | 14°19 | 14°17 | 9°29 | T 7 |
| W 8 | 3 10 17 | 16° 4'25 | 2♒42 | 21°19 | 2°40 | 6°52 | 29°38 | 20°49 | 29°52 | 12°40 | 27°51 | 15°20 | 14°16 | 14°24 | 9°26 | W 8 |
| T 9 | 3 14 14 | 17° 4'51 | 14°35 | 20° 1 | 3°46 | 7°33 | 29°34 | 20°56 | 29°49 | 12°39 | 27°51 | 15°D19 | 14°12 | 14°30 | 9°23 | T 9 |
| F 10 | 3 18 10 | 18° 5'18 | 26°38 | 18°41 | 4°50 | 8°14 | 29°31 | 21° 3 | 29°47 | 12°39 | 27°50 | 15°19 | 14° 9 | 14°37 | 9°20 | F 10 |
| S 11 | 3 22 7 | 19° 5'46 | 8♓56 | 17°20 | 5°55 | 8°55 | 29°29 | 21°10 | 29°44 | 12°38 | 27°50 | 15°R20 | 14° 6 | 14°44 | 9°16 | S 11 |
| S 12 | 3 26 3 | 20° 6'15 | 21°33 | 16° 2 | 6°59 | 9°36 | 29°26 | 21°17 | 29°42 | 12°38 | 27°50 | 15°20 | 14° 3 | 14°51 | 9°13 | S 12 |
| M13 | 3 30 0 | 21° 6'46 | 4♈35 | 14°49 | 8° 3 | 10°18 | 29°24 | 21°24 | 29°39 | 12°38 | 27°49 | 15°18 | 14° 0 | 14°57 | 9°10 | M13 |
| T 14 | 3 33 56 | 22° 7'18 | 18° 3 | 13°44 | 9° 7 | 10°59 | 29°22 | 21°32 | 29°37 | 12°37 | 27°49 | 15°14 | 13°57 | 15° 4 | 9° 6 | T 14 |
| W15 | 3 37 53 | 23° 7'51 | 1♉58 | 12°48 | 10°11 | 11°40 | 29°20 | 21°39 | 29°34 | 12°37 | 27°48 | 15° 7 | 13°53 | 15°11 | 9° 3 | W15 |
| T 16 | 3 41 50 | 24° 8'26 | 16°18 | 12° 2 | 11°14 | 12°22 | 29°18 | 21°46 | 29°32 | 12°37 | 27°48 | 14°58 | 13°50 | 15°17 | 8°59 | T 16 |
| F 17 | 3 45 46 | 25° 9'03 | 0♊58 | 11°27 | 12°17 | 13° 3 | 29°16 | 21°53 | 29°29 | 12°36 | 27°47 | 14°47 | 13°47 | 15°24 | 8°56 | F 17 |
| S 18 | 3 49 43 | 26° 9'41 | 15°50 | 11° 5 | 13°19 | 13°45 | 29°15 | 22° 0 | 29°27 | 12°36 | 27°47 | 14°36 | 13°44 | 15°31 | 8°52 | S 18 |
| S 19 | 3 53 39 | 27°10'20 | 0♋45 | 10°D53 | 14°21 | 14°26 | 29°14 | 22° 7 | 29°24 | 12°36 | 27°46 | 14°26 | 13°41 | 15°37 | 8°49 | S 19 |
| M20 | 3 57 36 | 28°11'01 | 15°33 | 10°53 | 15°23 | 15° 8 | 29°13 | 22°14 | 29°22 | 12°36 | 27°46 | 14°18 | 13°37 | 15°44 | 8°45 | M20 |
| T 21 | 4 1 32 | 29°11'44 | 0♌ 9 | 11° 4 | 16°25 | 15°50 | 29°12 | 22°21 | 29°19 | 12°36 | 27°45 | 14°13 | 13°34 | 15°51 | 8°42 | T 21 |
| W22 | 4 5 29 | 0♐12'28 | 14°28 | 11°24 | 17°26 | 16°31 | 29°12 | 22°29 | 29°17 | 12°36 | 27°45 | 14°10 | 13°31 | 15°58 | 8°38 | W22 |
| T 23 | 4 9 25 | 1°13'14 | 28°27 | 11°54 | 18°27 | 17°13 | 29°12 | 22°36 | 29°14 | 12°36 | 27°44 | 14°D 9 | 13°28 | 16° 4 | 8°35 | T 23 |
| F 24 | 4 13 22 | 2°14'01 | 12♍ 7 | 12°31 | 19°27 | 17°55 | 29°D12 | 22°43 | 29°12 | 12°D36 | 27°43 | 14°R 9 | 13°25 | 16°11 | 8°31 | F 24 |
| S 25 | 4 17 19 | 3°14'49 | 25°29 | 13°15 | 20°27 | 18°37 | 29°12 | 22°50 | 29° 9 | 12°36 | 27°43 | 14° 9 | 13°22 | 16°18 | 8°28 | S 25 |
| S 26 | 4 21 15 | 4°15'40 | 8♎37 | 14° 6 | 21°27 | 19°19 | 29°12 | 22°57 | 29° 7 | 12°36 | 27°42 | 14° 7 | 13°18 | 16°24 | 8°24 | S 26 |
| M27 | 4 25 12 | 5°16'31 | 21°31 | 15° 2 | 22°26 | 20° 1 | 29°13 | 23° 4 | 29° 4 | 12°36 | 27°41 | 14° 2 | 13°15 | 16°31 | 8°20 | M27 |
| T 28 | 4 29 8 | 6°17'24 | 4♏13 | 16° 3 | 23°25 | 20°42 | 29°13 | 23°11 | 29° 2 | 12°36 | 27°41 | 13°54 | 13°12 | 16°38 | 8°17 | T 28 |
| W29 | 4 33 5 | 7°18'19 | 16°46 | 17° 8 | 24°23 | 21°24 | 29°14 | 23°18 | 28°59 | 12°36 | 27°40 | 13°43 | 13° 9 | 16°44 | 8°13 | W29 |
| T 30 | 4 37 1 | 8♐19'14 | 29♏ 9 | 18♏17 | 25♑21 | 22♏ 6 | 29♓15 | 23♏25 | 28♉57 | 12♓36 | 27♋39 | 13♓30 | 13♓ 6 | 16♑51 | 8♊ 9 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 14s32 | 17s52 | 3s59 | 21s47 | 2s22 | 26s21 | 2s58 | 11s52 | 0n23 | 1s25 | 1s35 | 15s52 | 1n58 | 20n 2 | 0s11 | 7s47 | 1s 5 | 23n44 | 3n11 | 5s25 | 6s 4 | 27s16 | 17n 5 | 4s56 |
| T 2 | 14 51 | 22 16 | 4 35 | 21 32 | 2 11 | 26 25 | 3 0 | 12 6 | 0 22 | 1 26 | 1 34 | 15 54 | 1 58 | 20 2 | 0 11 | 7 47 | 1 5 | 23 44 | 3 11 | 5 29 | 6 5 | 27 15 | 17 4 | 4 56 |
| F 3 | 15 10 | 25 36 | 4 57 | 21 13 | 1 59 | 26 28 | 3 1 | 12 21 | 0 22 | 1 28 | 1 34 | 15 56 | 1 58 | 20 1 | 0 11 | 7 48 | 1 5 | 23 45 | 3 11 | 5 33 | 6 6 | 27 14 | 17 3 | 4 56 |
| S 4 | 15 29 | 27 41 | 5 4 | 20 50 | 1 45 | 26 31 | 3 2 | 12 35 | 0 21 | 1 29 | 1 34 | 15 58 | 1 58 | 20 1 | 0 11 | 7 48 | 1 4 | 23 45 | 3 11 | 5 37 | 6 7 | 27 12 | 17 3 | 4 57 |
| S 5 | 15 47 | 28 25 | 4 58 | 20 23 | 1 29 | 26 32 | 3 4 | 12 49 | 0 21 | 1 31 | 1 34 | 16 0 | 1 58 | 20 0 | 0 11 | 7 48 | 1 4 | 23 45 | 3 11 | 5 41 | 6 9 | 27 11 | 17 2 | 4 57 |
| M 6 | 16 5 | 27 49 | 4 39 | 19 52 | 1 12 | 26 33 | 3 5 | 13 4 | 0 20 | 1 32 | 1 33 | 16 2 | 1 58 | 20 0 | 0 11 | 7 48 | 1 4 | 23 45 | 3 11 | 5 44 | 6 10 | 27 10 | 17 1 | 4 57 |
| T 7 | 16 23 | 25 57 | 4 9 | 19 18 | 0 53 | 26 34 | 3 6 | 13 18 | 0 20 | 1 33 | 1 33 | 16 4 | 1 58 | 19 59 | 0 11 | 7 48 | 1 4 | 23 45 | 3 12 | 5 46 | 6 11 | 27 9 | 17 0 | 4 58 |
| W 8 | 16 41 | 22 57 | 3 27 | 18 40 | 0 34 | 26 34 | 3 6 | 13 32 | 0 19 | 1 34 | 1 33 | 16 6 | 1 58 | 19 59 | 0 11 | 7 49 | 1 4 | 23 46 | 3 12 | 5 47 | 6 12 | 27 8 | 17 0 | 4 58 |
| T 9 | 16 58 | 18 59 | 2 36 | 17 59 | 0 13 | 26 33 | 3 7 | 13 46 | 0 19 | 1 35 | 1 33 | 16 7 | 1 58 | 19 58 | 0 11 | 7 49 | 1 4 | 23 46 | 3 12 | 5 48 | 6 14 | 27 7 | 16 59 | 4 58 |
| F 10 | 17 15 | 14 12 | 1 38 | 17 18 | 0n 7 | 26 31 | 3 8 | 14 0 | 0 18 | 1 36 | 1 32 | 16 9 | 1 58 | 19 58 | 0 11 | 7 49 | 1 4 | 23 46 | 3 12 | 5 48 | 6 15 | 27 5 | 16 58 | 4 58 |
| S 11 | 17 32 | 8 46 | 0 34 | 16 36 | 0 28 | 26 29 | 3 8 | 14 13 | 0 17 | 1 37 | 1 32 | 16 11 | 1 58 | 19 57 | 0 11 | 7 49 | 1 4 | 23 46 | 3 12 | 5 47 | 6 16 | 27 4 | 16 57 | 4 59 |
| S 12 | 17 48 | 2 51 | 0n33 | 15 54 | 0 48 | 26 26 | 3 8 | 14 27 | 0 17 | 1 38 | 1 32 | 16 13 | 1 58 | 19 56 | 0 11 | 7 49 | 1 4 | 23 46 | 3 12 | 5 47 | 6 17 | 27 3 | 16 57 | 4 59 |
| M13 | 18 4 | 3n22 | 1 41 | 15 15 | 1 6 | 26 22 | 3 9 | 14 41 | 0 16 | 1 38 | 1 32 | 16 15 | 1 58 | 19 56 | 0 11 | 7 49 | 1 4 | 23 47 | 3 12 | 5 48 | 6 18 | 27 2 | 16 56 | 4 59 |
| T 14 | 18 20 | 9 37 | 2 45 | 14 40 | 1 23 | 26 18 | 3 9 | 14 54 | 0 16 | 1 39 | 1 31 | 16 17 | 1 58 | 19 55 | 0 11 | 7 49 | 1 4 | 23 47 | 3 13 | 5 50 | 6 20 | 27 0 | 16 55 | 4 59 |
| W15 | 18 35 | 15 38 | 3 41 | 14 8 | 1 39 | 26 13 | 3 8 | 15 7 | 0 15 | 1 40 | 1 31 | 16 19 | 1 58 | 19 55 | 0 11 | 7 50 | 1 4 | 23 47 | 3 13 | 5 52 | 6 21 | 26 59 | 16 55 | 5 0 |
| T 16 | 18 50 | 20 58 | 4 25 | 13 41 | 1 52 | 26 8 | 3 8 | 15 21 | 0 15 | 1 40 | 1 31 | 16 21 | 1 58 | 19 54 | 0 11 | 7 50 | 1 4 | 23 47 | 3 13 | 5 56 | 6 22 | 26 58 | 16 54 | 5 0 |
| F 17 | 19 5 | 25 10 | 4 53 | 13 20 | 2 4 | 26 2 | 3 8 | 15 34 | 0 14 | 1 40 | 1 31 | 16 22 | 1 58 | 19 54 | 0 11 | 7 50 | 1 4 | 23 48 | 3 13 | 6 0 | 6 23 | 26 57 | 16 53 | 5 0 |
| S 18 | 19 20 | 27 43 | 5 1 | 13 4 | 2 13 | 25 55 | 3 7 | 15 47 | 0 13 | 1 41 | 1 30 | 16 24 | 1 58 | 19 53 | 0 11 | 7 50 | 1 4 | 23 48 | 3 13 | 6 4 | 6 25 | 26 56 | 16 52 | 5 0 |
| S 19 | 19 34 | 28 18 | 4 49 | 12 54 | 2 20 | 25 48 | 3 6 | 16 0 | 0 13 | 1 41 | 1 30 | 16 26 | 1 58 | 19 53 | 0 11 | 7 50 | 1 4 | 23 48 | 3 13 | 6 8 | 6 26 | 26 54 | 16 52 | 5 0 |
| M20 | 19 47 | 26 51 | 4 18 | 12 49 | 2 26 | 25 40 | 3 5 | 16 13 | 0 12 | 1 41 | 1 30 | 16 28 | 1 58 | 19 52 | 0 11 | 7 50 | 1 4 | 23 48 | 3 14 | 6 11 | 6 27 | 26 53 | 16 51 | 5 1 |
| T 21 | 20 1 | 23 35 | 3 30 | 12 48 | 2 30 | 25 31 | 3 4 | 16 25 | 0 12 | 1 41 | 1 29 | 16 30 | 1 58 | 19 52 | 0 11 | 7 50 | 1 4 | 23 49 | 3 14 | 6 14 | 6 28 | 26 52 | 16 50 | 5 1 |
| W22 | 20 14 | 18 55 | 2 30 | 12 53 | 2 32 | 25 22 | 3 3 | 16 38 | 0 11 | 1 41 | 1 29 | 16 32 | 1 58 | 19 51 | 0 11 | 7 50 | 1 4 | 23 49 | 3 14 | 6 15 | 6 29 | 26 50 | 16 50 | 5 1 |
| T 23 | 20 26 | 13 19 | 1 22 | 13 1 | 2 32 | 25 12 | 3 2 | 16 50 | 0 11 | 1 41 | 1 29 | 16 33 | 1 58 | 19 51 | 0 11 | 7 50 | 1 4 | 23 49 | 3 14 | 6 15 | 6 31 | 26 49 | 16 49 | 5 1 |
| F 24 | 20 39 | 7 12 | 0 11 | 13 13 | 2 32 | 25 2 | 3 0 | 17 2 | 0 10 | 1 41 | 1 29 | 16 35 | 1 58 | 19 50 | 0 11 | 7 50 | 1 4 | 23 49 | 3 14 | 6 15 | 6 32 | 26 48 | 16 48 | 5 1 |
| S 25 | 20 51 | 0 53 | 1s 0 | 13 27 | 2 30 | 24 52 | 2 58 | 17 15 | 0 9 | 1 40 | 1 28 | 16 37 | 1 58 | 19 50 | 0 11 | 7 50 | 1 4 | 23 50 | 3 14 | 6 15 | 6 33 | 26 46 | 16 47 | 5 1 |
| S 26 | 21 2 | 5s20 | 2 5 | 13 45 | 2 27 | 24 40 | 2 56 | 17 27 | 0 9 | 1 40 | 1 28 | 16 39 | 1 58 | 19 49 | 0 11 | 7 50 | 1 4 | 23 50 | 3 14 | 6 16 | 6 34 | 26 45 | 16 47 | 5 2 |
| M27 | 21 13 | 11 14 | 3 3 | 14 5 | 2 24 | 24 28 | 2 54 | 17 39 | 0 8 | 1 39 | 1 28 | 16 41 | 1 58 | 19 48 | 0 11 | 7 50 | 1 4 | 23 50 | 3 15 | 6 18 | 6 36 | 26 44 | 16 46 | 5 2 |
| T 28 | 21 24 | 16 35 | 3 51 | 14 26 | 2 20 | 24 16 | 2 52 | 17 50 | 0 8 | 1 39 | 1 27 | 16 42 | 1 58 | 19 48 | 0 11 | 7 50 | 1 4 | 23 50 | 3 15 | 6 21 | 6 37 | 26 43 | 16 45 | 5 2 |
| W29 | 21 34 | 21 8 | 4 27 | 14 49 | 2 15 | 24 3 | 2 49 | 18 2 | 0 7 | 1 38 | 1 27 | 16 44 | 1 58 | 19 47 | 0 11 | 7 49 | 1 4 | 23 51 | 3 15 | 6 25 | 6 38 | 26 41 | 16 45 | 5 2 |
| T 30 | 21s44 | 24s43 | 4s50 | 15s14 | 2n10 | 23s50 | 2s47 | 18s14 | 0n 6 | 1s37 | 1s27 | 16s46 | 1n58 | 19n47 | 0s11 | 7s49 | 1s 4 | 23n51 | 3n15 | 6s30 | 6s39 | 26s40 | 16n44 | 5s 2 |

Julian Day Number = 2338624.5, Delta T = 18.03 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'29, Lahiri = 19°32'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1690
# geocentric

## DECEMBER 1690 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 4 40 58 | 9♐20'11 | 11♐23 | 19♏29 | 26♑18 | 22♏49 | 29♓17 | 23♏32 | 28°R54 | 12♓37 | 27°R38 | 13°R15 | 13♓ 3 | 16♑58 | 8°R 6 | F 1 |
| S 2 | 4 44 54 | 10°21'09 | 23°29 | 20°44 | 27°15 | 23°31 | 29°18 | 23°39 | 28♉52 | 12°37 | 27♋37 | 13♓ 0 | 12°59 | 17° 5 | 8♊ 2 | S 2 |
| S 3 | 4 48 51 | 11°22'07 | 5♑27 | 22° 1 | 28°11 | 24°13 | 29°20 | 23°46 | 28°49 | 12°37 | 27°37 | 12°46 | 12°56 | 17°11 | 7°59 | S 3 |
| M 4 | 4 52 48 | 12°23'07 | 17°20 | 23°20 | 29° 7 | 24°55 | 29°22 | 23°53 | 28°47 | 12°38 | 27°36 | 12°35 | 12°53 | 17°18 | 7°55 | M 4 |
| T 5 | 4 56 44 | 13°24'07 | 29° 8 | 24°40 | 0♒ 2 | 25°37 | 29°24 | 24° 0 | 28°44 | 12°38 | 27°35 | 12°26 | 12°50 | 17°25 | 7°51 | T 5 |
| W 6 | 5 0 41 | 14°25'08 | 10♒57 | 26° 3 | 0°57 | 26°20 | 29°27 | 24° 7 | 28°42 | 12°38 | 27°34 | 12°20 | 12°47 | 17°31 | 7°48 | W 6 |
| T 7 | 5 4 37 | 15°26'09 | 22°48 | 27°26 | 1°51 | 27° 2 | 29°29 | 24°13 | 28°40 | 12°39 | 27°33 | 12°16 | 12°43 | 17°38 | 7°44 | T 7 |
| F 8 | 5 8 34 | 16°27'11 | 4♓48 | 28°51 | 2°44 | 27°44 | 29°32 | 24°20 | 28°37 | 12°39 | 27°32 | 12°15 | 12°40 | 17°45 | 7°41 | F 8 |
| S 9 | 5 12 30 | 17°28'13 | 17° 1 | 0♐17 | 3°36 | 28°27 | 29°35 | 24°27 | 28°35 | 12°40 | 27°31 | 12°15 | 12°37 | 17°51 | 7°37 | S 9 |
| S 10 | 5 16 27 | 18°29'16 | 29°33 | 1°43 | 4°28 | 29° 9 | 29°38 | 24°34 | 28°32 | 12°40 | 27°30 | 12°15 | 12°34 | 17°58 | 7°33 | S 10 |
| M11 | 5 20 24 | 19°30'20 | 12♈29 | 3°10 | 5°19 | 29°52 | 29°42 | 24°40 | 28°30 | 12°41 | 27°29 | 12°13 | 12°31 | 18° 5 | 7°30 | M11 |
| T 12 | 5 24 20 | 20°31'23 | 25°53 | 4°38 | 6° 9 | 0♐34 | 29°45 | 24°47 | 28°28 | 12°42 | 27°28 | 12° 9 | 12°28 | 18°12 | 7°26 | T 12 |
| W13 | 5 28 17 | 21°32'27 | 9♉48 | 6° 7 | 6°59 | 1°17 | 29°49 | 24°54 | 28°26 | 12°42 | 27°27 | 12° 3 | 12°24 | 18°18 | 7°23 | W13 |
| T 14 | 5 32 13 | 22°33'32 | 24°12 | 7°36 | 7°47 | 1°59 | 29°53 | 25° 0 | 28°23 | 12°43 | 27°26 | 11°53 | 12°21 | 18°25 | 7°19 | T 14 |
| F 15 | 5 36 10 | 23°34'37 | 9♊ 2 | 9° 5 | 8°35 | 2°42 | 29°57 | 25° 7 | 28°21 | 12°44 | 27°25 | 11°42 | 12°18 | 18°32 | 7°16 | F 15 |
| S 16 | 5 40 6 | 24°35'43 | 24°10 | 10°35 | 9°22 | 3°25 | 0♈ 2 | 25°14 | 28°19 | 12°44 | 27°24 | 11°31 | 12°15 | 18°38 | 7°12 | S 16 |
| S 17 | 5 44 3 | 25°36'49 | 9♋25 | 12° 5 | 10° 7 | 4° 7 | 0° 6 | 25°20 | 28°17 | 12°45 | 27°23 | 11°20 | 12°12 | 18°45 | 7° 9 | S 17 |
| M18 | 5 47 59 | 26°37'55 | 24°36 | 13°35 | 10°52 | 4°50 | 0°11 | 25°27 | 28°15 | 12°46 | 27°22 | 11°11 | 12° 9 | 18°52 | 7° 6 | M18 |
| T 19 | 5 51 56 | 27°39'02 | 9♌34 | 15° 6 | 11°36 | 5°33 | 0°16 | 25°33 | 28°13 | 12°47 | 27°21 | 11° 5 | 12° 5 | 18°58 | 7° 2 | T 19 |
| W20 | 5 55 53 | 28°40'10 | 24°11 | 16°37 | 12°18 | 6°16 | 0°21 | 25°39 | 28°10 | 12°48 | 27°19 | 11° 2 | 12° 2 | 19° 5 | 6°59 | W20 |
| T 21 | 5 59 49 | 29°41'18 | 8♍23 | 18° 9 | 13° 0 | 6°59 | 0°26 | 25°46 | 28° 8 | 12°49 | 27°18 | 11°D 1 | 11°59 | 19°12 | 6°56 | T 21 |
| F 22 | 6 3 46 | 0♑42'27 | 22°10 | 19°41 | 13°40 | 7°42 | 0°32 | 25°52 | 28° 6 | 12°50 | 27°17 | 11° 1 | 11°56 | 19°19 | 6°53 | F 22 |
| S 23 | 6 7 42 | 1°43'36 | 5♎33 | 21°13 | 14°19 | 8°25 | 0°38 | 25°58 | 28° 4 | 12°51 | 27°16 | 11°R 1 | 11°53 | 19°25 | 6°49 | S 23 |
| S 24 | 6 11 39 | 2°44'46 | 18°35 | 22°45 | 14°57 | 9° 8 | 0°43 | 26° 5 | 28° 2 | 12°52 | 27°15 | 11° 0 | 11°49 | 19°32 | 6°46 | S 24 |
| M25 | 6 15 35 | 3°45'56 | 1♏19 | 24°18 | 15°34 | 9°51 | 0°49 | 26°11 | 28° 0 | 12°53 | 27°14 | 10°57 | 11°46 | 19°39 | 6°43 | M25 |
| T 26 | 6 19 32 | 4°47'07 | 13°49 | 25°51 | 16° 9 | 10°34 | 0°56 | 26°17 | 27°59 | 12°54 | 27°12 | 10°50 | 11°43 | 19°45 | 6°40 | T 26 |
| W27 | 6 23 28 | 5°48'18 | 26° 7 | 27°24 | 16°43 | 11°17 | 1° 2 | 26°23 | 27°57 | 12°55 | 27°11 | 10°41 | 11°40 | 19°52 | 6°37 | W27 |
| T 28 | 6 27 25 | 6°49'29 | 8♐17 | 28°58 | 17°15 | 12° 0 | 1° 8 | 26°29 | 27°55 | 12°56 | 27°10 | 10°30 | 11°37 | 19°59 | 6°34 | T 28 |
| F 29 | 6 31 22 | 7°50'41 | 20°20 | 0♑32 | 17°46 | 12°43 | 1°15 | 26°35 | 27°53 | 12°57 | 27° 9 | 10°18 | 11°34 | 20° 5 | 6°31 | F 29 |
| S 30 | 6 35 18 | 8°51'52 | 2♑17 | 2° 6 | 18°15 | 13°27 | 1°22 | 26°41 | 27°51 | 12°58 | 27° 7 | 10° 5 | 11°30 | 20°12 | 6°28 | S 30 |
| S 31 | 6 39 15 | 9♑53'04 | 14♑10 | 3♑40 | 18♒42 | 14♐10 | 1♈29 | 26♏47 | 27♉50 | 13♓ 0 | 27♋ 6 | 9♓53 | 11♓27 | 20♑19 | 6♊25 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 21s53 | 27s 7 | 4s59 | 15s39 | 2n 4 | 23s36 | 2s44 | 18s25 | 0n 6 | 1s37 | 1s27 | 16s47 | 1n58 | 19n46 | 0s11 | 7s49 | 1s 4 | 23n51 | 3n15 | 6s36 | 6s40 | 26s38 | 16n43 | 5s 2 |
| S 2 | 22 2 | 28 13 | 4 54 | 16 5 | 1 58 | 23 22 | 2 41 | 18 36 | 0 5 | 1 36 | 1 26 | 16 49 | 1 58 | 19 46 | 0 11 | 7 49 | 1 4 | 23 52 | 3 15 | 6 41 | 6 42 | 26 37 | 16 43 | 5 2 |
| S 3 | 22 11 | 27 58 | 4 37 | 16 31 | 1 51 | 23 8 | 2 37 | 18 47 | 0 5 | 1 35 | 1 26 | 16 51 | 1 58 | 19 45 | 0 11 | 7 49 | 1 4 | 23 52 | 3 15 | 6 47 | 6 43 | 26 36 | 16 42 | 5 2 |
| M 4 | 22 19 | 26 26 | 4 7 | 16 57 | 1 44 | 22 52 | 2 34 | 18 58 | 0 4 | 1 34 | 1 26 | 16 53 | 1 58 | 19 45 | 0 11 | 7 49 | 1 4 | 23 52 | 3 15 | 6 51 | 6 44 | 26 34 | 16 41 | 5 2 |
| T 5 | 22 27 | 23 44 | 3 27 | 17 24 | 1 37 | 22 37 | 2 30 | 19 9 | 0 3 | 1 32 | 1 25 | 16 54 | 1 58 | 19 44 | 0 11 | 7 49 | 1 4 | 23 53 | 3 16 | 6 55 | 6 45 | 26 33 | 16 41 | 5 3 |
| W 6 | 22 34 | 20 2 | 2 37 | 17 50 | 1 30 | 22 21 | 2 26 | 19 19 | 0 3 | 1 31 | 1 25 | 16 56 | 1 58 | 19 44 | 0 11 | 7 48 | 1 4 | 23 53 | 3 16 | 6 57 | 6 47 | 26 32 | 16 40 | 5 3 |
| T 7 | 22 41 | 15 32 | 1 41 | 18 17 | 1 23 | 22 5 | 2 22 | 19 30 | 0 2 | 1 30 | 1 25 | 16 58 | 1 58 | 19 43 | 0 11 | 7 48 | 1 4 | 23 53 | 3 16 | 6 58 | 6 48 | 26 30 | 16 40 | 5 3 |
| F 8 | 22 47 | 10 23 | 0 39 | 18 43 | 1 15 | 21 49 | 2 17 | 19 40 | 0 1 | 1 29 | 1 24 | 16 59 | 1 58 | 19 43 | 0 11 | 7 48 | 1 4 | 23 53 | 3 16 | 6 58 | 6 49 | 26 29 | 16 39 | 5 3 |
| S 9 | 22 53 | 4 45 | 0n25 | 19 8 | 1 8 | 21 32 | 2 12 | 19 50 | 0 1 | 1 27 | 1 24 | 17 1 | 1 58 | 19 42 | 0 11 | 7 48 | 1 4 | 23 54 | 3 16 | 6 59 | 6 50 | 26 27 | 16 38 | 5 3 |
| S 10 | 22 59 | 1n12 | 1 30 | 19 33 | 1 1 | 21 14 | 2 8 | 20 0 | 0 0 | 1 26 | 1 24 | 17 2 | 1 58 | 19 42 | 0 11 | 7 48 | 1 4 | 23 54 | 3 16 | 6 59 | 6 51 | 26 26 | 16 38 | 5 3 |
| M11 | 23 4 | 7 17 | 2 33 | 19 58 | 0 53 | 20 57 | 2 2 | 20 10 | 0s 0 | 1 24 | 1 24 | 17 4 | 1 58 | 19 41 | 0 11 | 7 47 | 1 3 | 23 54 | 3 16 | 6 59 | 6 53 | 26 25 | 16 37 | 5 3 |
| T 12 | 23 9 | 13 15 | 3 29 | 20 22 | 0 45 | 20 39 | 1 57 | 20 19 | 0 1 | 1 22 | 1 23 | 17 6 | 1 58 | 19 41 | 0 11 | 7 47 | 1 3 | 23 55 | 3 16 | 7 1 | 6 54 | 26 23 | 16 37 | 5 3 |
| W13 | 23 13 | 18 48 | 4 15 | 20 45 | 0 38 | 20 21 | 1 51 | 20 29 | 0 2 | 1 20 | 1 23 | 17 7 | 1 58 | 19 40 | 0 11 | 7 47 | 1 3 | 23 55 | 3 17 | 7 3 | 6 55 | 26 22 | 16 36 | 5 3 |
| T 14 | 23 16 | 23 29 | 4 47 | 21 7 | 0 30 | 20 3 | 1 45 | 20 38 | 0 2 | 1 19 | 1 23 | 17 9 | 1 58 | 19 40 | 0 11 | 7 46 | 1 3 | 23 55 | 3 17 | 7 7 | 6 56 | 26 20 | 16 35 | 5 3 |
| F 15 | 23 20 | 26 47 | 5 0 | 21 28 | 0 23 | 19 45 | 1 39 | 20 47 | 0 3 | 1 17 | 1 22 | 17 10 | 1 58 | 19 39 | 0 11 | 7 46 | 1 3 | 23 56 | 3 17 | 7 11 | 6 57 | 26 19 | 16 35 | 5 3 |
| S 16 | 23 22 | 28 14 | 4 53 | 21 49 | 0 16 | 19 26 | 1 33 | 20 56 | 0 4 | 1 15 | 1 22 | 17 12 | 1 58 | 19 39 | 0 11 | 7 46 | 1 3 | 23 56 | 3 17 | 7 16 | 6 59 | 26 17 | 16 34 | 5 3 |
| S 17 | 23 25 | 27 34 | 4 26 | 22 9 | 0 8 | 19 7 | 1 26 | 21 5 | 0 4 | 1 13 | 1 22 | 17 13 | 1 58 | 19 38 | 0 11 | 7 46 | 1 3 | 23 56 | 3 17 | 7 20 | 7 0 | 26 16 | 16 34 | 5 3 |
| M18 | 23 26 | 24 50 | 3 39 | 22 27 | 0 1 | 18 48 | 1 19 | 21 13 | 0 5 | 1 10 | 1 22 | 17 15 | 1 58 | 19 38 | 0 11 | 7 45 | 1 3 | 23 57 | 3 17 | 7 23 | 7 1 | 26 14 | 16 33 | 5 3 |
| T 19 | 23 28 | 20 26 | 2 38 | 22 45 | 0s 6 | 18 29 | 1 12 | 21 21 | 0 5 | 1 8 | 1 21 | 17 16 | 1 58 | 19 37 | 0 11 | 7 45 | 1 3 | 23 57 | 3 17 | 7 25 | 7 2 | 26 13 | 16 33 | 5 3 |
| W20 | 23 29 | 14 52 | 1 28 | 23 1 | 0 13 | 18 10 | 1 4 | 21 30 | 0 6 | 1 6 | 1 21 | 17 18 | 1 58 | 19 37 | 0 11 | 7 44 | 1 3 | 23 57 | 3 17 | 7 27 | 7 4 | 26 11 | 16 32 | 5 3 |
| T 21 | 23 29 | 8 39 | 0 14 | 23 17 | 0 20 | 17 51 | 0 56 | 21 37 | 0 7 | 1 4 | 1 21 | 17 19 | 1 58 | 19 36 | 0 11 | 7 44 | 1 3 | 23 58 | 3 18 | 7 27 | 7 5 | 26 10 | 16 32 | 5 3 |
| F 22 | 23 29 | 2 13 | 0s59 | 23 31 | 0 27 | 17 31 | 0 48 | 21 45 | 0 7 | 1 1 | 1 20 | 17 20 | 1 58 | 19 36 | 0 11 | 7 44 | 1 3 | 23 58 | 3 18 | 7 27 | 7 6 | 26 8 | 16 31 | 5 3 |
| S 23 | 23 28 | 4s 8 | 2 6 | 23 45 | 0 33 | 17 12 | 0 40 | 21 53 | 0 8 | 0 59 | 1 20 | 17 22 | 1 58 | 19 36 | 0 11 | 7 43 | 1 3 | 23 58 | 3 18 | 7 27 | 7 7 | 26 7 | 16 31 | 5 3 |
| S 24 | 23 27 | 10 9 | 3 5 | 23 57 | 0 40 | 16 53 | 0 31 | 22 0 | 0 9 | 0 56 | 1 20 | 17 23 | 1 59 | 19 35 | 0 11 | 7 43 | 1 3 | 23 59 | 3 18 | 7 27 | 7 8 | 26 5 | 16 30 | 5 2 |
| M25 | 23 26 | 15 36 | 3 54 | 24 8 | 0 46 | 16 33 | 0 22 | 22 7 | 0 9 | 0 53 | 1 20 | 17 25 | 1 59 | 19 35 | 0 11 | 7 42 | 1 3 | 23 59 | 3 18 | 7 29 | 7 10 | 26 4 | 16 30 | 5 2 |
| T 26 | 23 24 | 20 18 | 4 30 | 24 17 | 0 52 | 16 14 | 0 13 | 22 14 | 0 10 | 0 51 | 1 19 | 17 26 | 1 59 | 19 34 | 0 11 | 7 42 | 1 3 | 23 59 | 3 18 | 7 31 | 7 11 | 26 2 | 16 30 | 5 2 |
| W27 | 23 21 | 24 4 | 4 53 | 24 26 | 0 58 | 15 54 | 0 3 | 22 21 | 0 11 | 0 48 | 1 19 | 17 27 | 1 59 | 19 34 | 0 11 | 7 42 | 1 3 | 24 0 | 3 18 | 7 34 | 7 12 | 26 1 | 16 29 | 5 2 |
| T 28 | 23 18 | 26 42 | 5 2 | 24 33 | 1 4 | 15 35 | 0n 7 | 22 27 | 0 11 | 0 45 | 1 19 | 17 29 | 1 59 | 19 34 | 0 11 | 7 41 | 1 3 | 24 0 | 3 18 | 7 39 | 7 13 | 25 59 | 16 29 | 5 2 |
| F 29 | 23 15 | 28 5 | 4 58 | 24 38 | 1 10 | 15 16 | 0 17 | 22 34 | 0 12 | 0 42 | 1 19 | 17 30 | 1 59 | 19 33 | 0 11 | 7 41 | 1 3 | 24 1 | 3 18 | 7 43 | 7 14 | 25 58 | 16 28 | 5 2 |
| S 30 | 23 11 | 28 8 | 4 41 | 24 43 | 1 15 | 14 57 | 0 27 | 22 40 | 0 13 | 0 39 | 1 18 | 17 31 | 1 59 | 19 33 | 0 11 | 7 40 | 1 3 | 24 1 | 3 18 | 7 48 | 7 16 | 25 56 | 16 28 | 5 2 |
| S 31 | 23s 7 | 26s53 | 4s11 | 24s46 | 1s20 | 14s38 | 0n38 | 22s46 | 0s13 | 0s36 | 1s18 | 17s32 | 1n59 | 19n32 | 0s11 | 7s40 | 1s 3 | 24n 1 | 3n19 | 7s53 | 7s17 | 25s54 | 16n28 | 5s 2 |

Julian Day Number = 2338654.5, Delta T = 17.99 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'33, Lahiri = 19°32'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## JANUARY 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 6 43 11 | 10♑54'15 | 26♑ 0 | 5♑15 | 19♒ 8 | 14♐53 | 1♈36 | 26♏53 | 27°R48 | 13♓ 1 | 27°R 5 | 9°R43 | 11♓24 | 20♑25 | 6°R22 | M 1 |
| T 2 | 6 47 8 | 11°55'26 | 7♒49 | 6°51 | 19°32 | 15°37 | 1°44 | 26°58 | 27♉46 | 13° 2 | 27♋ 4 | 9♓35 | 11°21 | 20°32 | 6♊20 | T 2 |
| W 3 | 6 51 4 | 12°56'37 | 19°39 | 8°27 | 19°54 | 16°20 | 1°51 | 27° 4 | 27°45 | 13° 4 | 27° 2 | 9°30 | 11°18 | 20°39 | 6°17 | W 3 |
| T 4 | 6 55 1 | 13°57'48 | 1♓33 | 10° 3 | 20°14 | 17° 3 | 1°59 | 27°10 | 27°43 | 13° 5 | 27° 1 | 9°28 | 11°15 | 20°46 | 6°14 | T 4 |
| F 5 | 6 58 58 | 14°58'58 | 13°34 | 11°39 | 20°32 | 17°47 | 2° 6 | 27°15 | 27°42 | 13° 6 | 27° 0 | 9°D28 | 11°11 | 20°52 | 6°12 | F 5 |
| S 6 | 7 2 54 | 16° 0'07 | 25°47 | 13°16 | 20°48 | 18°31 | 2°14 | 27°21 | 27°40 | 13° 8 | 26°58 | 9°29 | 11° 8 | 20°59 | 6° 9 | S 6 |
| S 7 | 7 6 51 | 17° 1'16 | 8♈16 | 14°54 | 21° 2 | 19°14 | 2°23 | 27°26 | 27°39 | 13° 9 | 26°57 | 9°30 | 11° 5 | 21° 6 | 6° 7 | S 7 |
| M 8 | 7 10 47 | 18° 2'25 | 21° 6 | 16°32 | 21°14 | 19°58 | 2°31 | 27°32 | 27°38 | 13°11 | 26°56 | 9°R30 | 11° 2 | 21°12 | 6° 4 | M 8 |
| T 9 | 7 14 44 | 19° 3'32 | 4♉21 | 18°10 | 21°23 | 20°41 | 2°39 | 27°37 | 27°36 | 13°12 | 26°54 | 9°29 | 10°59 | 21°19 | 6° 2 | T 9 |
| W10 | 7 18 40 | 20° 4'39 | 18° 6 | 19°49 | 21°31 | 21°25 | 2°48 | 27°42 | 27°35 | 13°14 | 26°53 | 9°26 | 10°55 | 21°26 | 6° 0 | W10 |
| T 11 | 7 22 37 | 21° 5'45 | 2♊19 | 21°28 | 21°35 | 22° 9 | 2°56 | 27°47 | 27°34 | 13°15 | 26°52 | 9°20 | 10°52 | 21°32 | 5°57 | T 11 |
| F 12 | 7 26 33 | 22° 6'51 | 17° 1 | 23° 8 | 21°R38 | 22°52 | 3° 5 | 27°53 | 27°33 | 13°17 | 26°50 | 9°13 | 10°49 | 21°39 | 5°55 | F 12 |
| S 13 | 7 30 30 | 23° 7'56 | 2♋ 4 | 24°49 | 21°38 | 23°36 | 3°14 | 27°58 | 27°31 | 13°18 | 26°49 | 9° 6 | 10°46 | 21°46 | 5°53 | S 13 |
| S 14 | 7 34 27 | 24° 9'00 | 17°21 | 26°30 | 21°35 | 24°20 | 3°23 | 28° 3 | 27°30 | 13°20 | 26°48 | 8°59 | 10°43 | 21°52 | 5°51 | S 14 |
| M15 | 7 38 23 | 25°10'04 | 2♌41 | 28°11 | 21°30 | 25° 4 | 3°33 | 28° 8 | 27°29 | 13°22 | 26°46 | 8°53 | 10°40 | 21°59 | 5°49 | M15 |
| T 16 | 7 42 20 | 26°11'07 | 17°51 | 29°53 | 21°22 | 25°48 | 3°42 | 28°12 | 27°28 | 13°23 | 26°45 | 8°49 | 10°36 | 22° 6 | 5°47 | T 16 |
| W17 | 7 46 16 | 27°12'09 | 2♍44 | 1♒36 | 21°12 | 26°32 | 3°52 | 28°17 | 27°27 | 13°25 | 26°44 | 8°D48 | 10°33 | 22°13 | 5°45 | W17 |
| T 18 | 7 50 13 | 28°13'10 | 17°13 | 3°18 | 20°59 | 27°16 | 4° 1 | 28°22 | 27°27 | 13°27 | 26°42 | 8°48 | 10°30 | 22°19 | 5°43 | T 18 |
| F 19 | 7 54 9 | 29°14'12 | 1♎14 | 5° 2 | 20°44 | 28° 0 | 4°11 | 28°26 | 27°26 | 13°28 | 26°41 | 8°49 | 10°27 | 22°26 | 5°42 | F 19 |
| S 20 | 7 58 6 | 0♒15'12 | 14°47 | 6°46 | 20°26 | 28°44 | 4°21 | 28°31 | 27°25 | 13°30 | 26°40 | 8°50 | 10°24 | 22°33 | 5°40 | S 20 |
| S 21 | 8 2 2 | 1°16'12 | 27°55 | 8°30 | 20° 6 | 29°28 | 4°31 | 28°36 | 27°24 | 13°32 | 26°38 | 8°R51 | 10°21 | 22°39 | 5°38 | S 21 |
| M22 | 8 5 59 | 2°17'12 | 10♏40 | 10°14 | 19°44 | 0♑12 | 4°41 | 28°40 | 27°23 | 13°34 | 26°37 | 8°51 | 10°17 | 22°46 | 5°37 | M22 |
| T 23 | 8 9 56 | 3°18'11 | 23° 7 | 11°59 | 19°20 | 0°56 | 4°51 | 28°44 | 27°23 | 13°36 | 26°36 | 8°49 | 10°14 | 22°53 | 5°35 | T 23 |
| W24 | 8 13 52 | 4°19'09 | 5♐20 | 13°44 | 18°53 | 1°41 | 5° 1 | 28°49 | 27°22 | 13°37 | 26°34 | 8°46 | 10°11 | 22°59 | 5°34 | W24 |
| T 25 | 8 17 49 | 5°20'07 | 17°22 | 15°29 | 18°24 | 2°25 | 5°12 | 28°53 | 27°22 | 13°39 | 26°33 | 8°40 | 10° 8 | 23° 6 | 5°33 | T 25 |
| F 26 | 8 21 45 | 6°21'04 | 29°18 | 17°14 | 17°54 | 3° 9 | 5°23 | 28°57 | 27°21 | 13°41 | 26°32 | 8°35 | 10° 5 | 23°13 | 5°32 | F 26 |
| S 27 | 8 25 42 | 7°22'00 | 11♑ 9 | 18°58 | 17°22 | 3°53 | 5°33 | 29° 1 | 27°21 | 13°43 | 26°30 | 8°28 | 10° 2 | 23°19 | 5°30 | S 27 |
| S 28 | 8 29 38 | 8°22'55 | 22°59 | 20°42 | 16°49 | 4°38 | 5°44 | 29° 5 | 27°20 | 13°45 | 26°29 | 8°23 | 9°58 | 23°26 | 5°29 | S 28 |
| M29 | 8 33 35 | 9°23'48 | 4♒49 | 22°25 | 16°14 | 5°22 | 5°55 | 29° 9 | 27°20 | 13°47 | 26°28 | 8°18 | 9°55 | 23°33 | 5°28 | M29 |
| T 30 | 8 37 31 | 10°24'41 | 16°41 | 24° 8 | 15°38 | 6° 7 | 6° 6 | 29°12 | 27°20 | 13°49 | 26°26 | 8°15 | 9°52 | 23°39 | 5°27 | T 30 |
| W31 | 8 41 28 | 11♒25'33 | 28♒37 | 25♒49 | 15♒ 2 | 6♑51 | 6♈17 | 29♏16 | 27♉20 | 13♓51 | 26♋25 | 8♓13 | 9♓49 | 23♑46 | 5♊27 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23s 2 | 24s26 | 3s30 | 24s48 | 1s25 | 14s20 | 0n50 | 22s51 | 0s14 | 0s33 | 1s18 | 17s34 | 1n59 | 19n32 | 0s10 | 7s39 | 1s 3 | 24n 2 | 3n19 | 7s56 | 7s18 | 25s53 | 16n27 | 5s 2 |
| T 2 | 22 57 | 20 56 | 2 41 | 24 48 | 1 30 | 14 1 | 1 1 | 22 57 | 0 15 | 0 30 | 1 18 | 17 35 | 1 59 | 19 32 | 0 10 | 7 39 | 1 3 | 24 2 | 3 19 | 7 59 | 7 19 | 25 51 | 16 27 | 5 2 |
| W 3 | 22 51 | 16 36 | 1 44 | 24 47 | 1 34 | 13 43 | 1 13 | 23 2 | 0 15 | 0 27 | 1 17 | 17 36 | 1 59 | 19 31 | 0 10 | 7 38 | 1 3 | 24 2 | 3 19 | 8 1 | 7 20 | 25 50 | 16 27 | 5 1 |
| T 4 | 22 45 | 11 36 | 0 42 | 24 44 | 1 39 | 13 25 | 1 25 | 23 7 | 0 16 | 0 23 | 1 17 | 17 37 | 2 0 | 19 31 | 0 10 | 7 38 | 1 3 | 24 3 | 3 19 | 8 2 | 7 22 | 25 48 | 16 26 | 5 1 |
| F 5 | 22 38 | 6 8 | 0n22 | 24 40 | 1 42 | 13 8 | 1 38 | 23 12 | 0 17 | 0 20 | 1 17 | 17 38 | 2 0 | 19 31 | 0 10 | 7 37 | 1 3 | 24 3 | 3 19 | 8 2 | 7 23 | 25 46 | 16 26 | 5 1 |
| S 6 | 22 31 | 0 21 | 1 27 | 24 35 | 1 46 | 12 51 | 1 50 | 23 16 | 0 17 | 0 17 | 1 17 | 17 39 | 2 0 | 19 30 | 0 10 | 7 36 | 1 3 | 24 3 | 3 19 | 8 2 | 7 24 | 25 45 | 16 26 | 5 1 |
| S 7 | 22 24 | 5n33 | 2 29 | 24 28 | 1 50 | 12 34 | 2 3 | 23 21 | 0 18 | 0 13 | 1 16 | 17 41 | 2 0 | 19 30 | 0 10 | 7 36 | 1 3 | 24 4 | 3 19 | 8 1 | 7 25 | 25 43 | 16 25 | 5 1 |
| M 8 | 22 16 | 11 25 | 3 25 | 24 19 | 1 53 | 12 17 | 2 17 | 23 25 | 0 19 | 0 10 | 1 16 | 17 42 | 2 0 | 19 30 | 0 10 | 7 35 | 1 3 | 24 4 | 3 19 | 8 1 | 7 27 | 25 42 | 16 25 | 5 1 |
| T 9 | 22 7 | 16 57 | 4 12 | 24 9 | 1 55 | 12 1 | 2 30 | 23 29 | 0 19 | 0 6 | 1 16 | 17 43 | 2 0 | 19 30 | 0 10 | 7 35 | 1 3 | 24 4 | 3 19 | 8 2 | 7 28 | 25 40 | 16 25 | 5 1 |
| W10 | 21 59 | 21 50 | 4 47 | 23 58 | 1 58 | 11 46 | 2 44 | 23 32 | 0 20 | 0 3 | 1 16 | 17 44 | 2 0 | 19 29 | 0 10 | 7 34 | 1 3 | 24 5 | 3 19 | 8 3 | 7 29 | 25 38 | 16 25 | 5 0 |
| T 11 | 21 49 | 25 39 | 5 6 | 23 44 | 2 0 | 11 31 | 2 58 | 23 36 | 0 21 | 0n 1 | 1 15 | 17 45 | 2 0 | 19 29 | 0 10 | 7 33 | 1 3 | 24 5 | 3 20 | 8 5 | 7 30 | 25 37 | 16 25 | 5 0 |
| F 12 | 21 40 | 27 54 | 5 5 | 23 30 | 2 2 | 11 17 | 3 12 | 23 39 | 0 21 | 0 5 | 1 15 | 17 46 | 2 0 | 19 29 | 0 10 | 7 33 | 1 3 | 24 5 | 3 20 | 8 8 | 7 31 | 25 35 | 16 24 | 5 0 |
| S 13 | 21 30 | 28 12 | 4 44 | 23 13 | 2 3 | 11 3 | 3 27 | 23 42 | 0 22 | 0 9 | 1 15 | 17 47 | 2 1 | 19 29 | 0 10 | 7 32 | 1 3 | 24 6 | 3 20 | 8 10 | 7 33 | 25 33 | 16 24 | 5 0 |
| S 14 | 21 19 | 26 21 | 4 2 | 22 56 | 2 4 | 10 50 | 3 41 | 23 44 | 0 23 | 0 12 | 1 15 | 17 48 | 2 1 | 19 28 | 0 10 | 7 32 | 1 3 | 24 6 | 3 20 | 8 13 | 7 34 | 25 32 | 16 24 | 5 0 |
| M15 | 21 8 | 22 34 | 3 3 | 22 36 | 2 5 | 10 38 | 3 56 | 23 47 | 0 24 | 0 16 | 1 14 | 17 49 | 2 1 | 19 28 | 0 10 | 7 31 | 1 3 | 24 6 | 3 20 | 8 15 | 7 35 | 25 30 | 16 24 | 4 59 |
| T 16 | 20 57 | 17 16 | 1 51 | 22 15 | 2 5 | 10 26 | 4 11 | 23 49 | 0 24 | 0 20 | 1 14 | 17 50 | 2 1 | 19 28 | 0 10 | 7 30 | 1 3 | 24 7 | 3 20 | 8 17 | 7 36 | 25 28 | 16 24 | 4 59 |
| W17 | 20 45 | 11 2 | 0 33 | 21 52 | 2 5 | 10 15 | 4 26 | 23 51 | 0 25 | 0 24 | 1 14 | 17 51 | 2 1 | 19 28 | 0 10 | 7 30 | 1 3 | 24 7 | 3 20 | 8 17 | 7 37 | 25 27 | 16 24 | 4 59 |
| T 18 | 20 33 | 4 22 | 0s46 | 21 28 | 2 4 | 10 5 | 4 41 | 23 53 | 0 26 | 0 28 | 1 14 | 17 52 | 2 1 | 19 27 | 0 10 | 7 29 | 1 3 | 24 7 | 3 20 | 8 17 | 7 39 | 25 25 | 16 24 | 4 59 |
| F 19 | 20 21 | 2s18 | 1 59 | 21 2 | 2 3 | 9 56 | 4 56 | 23 54 | 0 26 | 0 32 | 1 14 | 17 53 | 2 1 | 19 27 | 0 10 | 7 28 | 1 3 | 24 8 | 3 20 | 8 17 | 7 40 | 25 23 | 16 23 | 4 59 |
| S 20 | 20 8 | 8 39 | 3 3 | 20 34 | 2 2 | 9 47 | 5 10 | 23 56 | 0 27 | 0 37 | 1 13 | 17 53 | 2 1 | 19 27 | 0 10 | 7 28 | 1 3 | 24 8 | 3 20 | 8 16 | 7 41 | 25 22 | 16 23 | 4 58 |
| S 21 | 19 55 | 14 25 | 3 56 | 20 5 | 1 59 | 9 40 | 5 25 | 23 57 | 0 28 | 0 41 | 1 13 | 17 54 | 2 2 | 19 27 | 0 10 | 7 27 | 1 3 | 24 8 | 3 20 | 8 16 | 7 42 | 25 20 | 16 23 | 4 58 |
| M22 | 19 41 | 19 24 | 4 35 | 19 35 | 1 57 | 9 33 | 5 39 | 23 57 | 0 28 | 0 45 | 1 13 | 17 55 | 2 2 | 19 27 | 0 10 | 7 26 | 1 3 | 24 9 | 3 20 | 8 16 | 7 43 | 25 18 | 16 23 | 4 58 |
| T 23 | 19 27 | 23 25 | 5 0 | 19 2 | 1 53 | 9 27 | 5 53 | 23 58 | 0 29 | 0 49 | 1 13 | 17 56 | 2 2 | 19 27 | 0 10 | 7 25 | 1 3 | 24 9 | 3 20 | 8 17 | 7 45 | 25 16 | 16 23 | 4 58 |
| W24 | 19 13 | 26 19 | 5 11 | 18 29 | 1 49 | 9 22 | 6 7 | 23 58 | 0 30 | 0 53 | 1 13 | 17 57 | 2 2 | 19 27 | 0 10 | 7 25 | 1 3 | 24 9 | 3 20 | 8 18 | 7 46 | 25 15 | 16 23 | 4 58 |
| T 25 | 18 58 | 27 59 | 5 8 | 17 54 | 1 45 | 9 18 | 6 20 | 23 58 | 0 30 | 0 58 | 1 12 | 17 58 | 2 2 | 19 26 | 0 10 | 7 24 | 1 3 | 24 10 | 3 20 | 8 20 | 7 47 | 25 13 | 16 23 | 4 57 |
| F 26 | 18 43 | 28 20 | 4 51 | 17 17 | 1 40 | 9 15 | 6 33 | 23 58 | 0 31 | 1 2 | 1 12 | 17 58 | 2 2 | 19 26 | 0 10 | 7 23 | 1 3 | 24 10 | 3 21 | 8 22 | 7 48 | 25 11 | 16 23 | 4 57 |
| S 27 | 18 28 | 27 22 | 4 23 | 16 39 | 1 34 | 9 13 | 6 46 | 23 57 | 0 32 | 1 7 | 1 12 | 17 59 | 2 2 | 19 26 | 0 10 | 7 22 | 1 2 | 24 10 | 3 21 | 8 24 | 7 49 | 25 9 | 16 23 | 4 57 |
| S 28 | 18 12 | 25 11 | 3 43 | 16 0 | 1 27 | 9 11 | 6 57 | 23 57 | 0 33 | 1 11 | 1 12 | 18 0 | 2 2 | 19 26 | 0 10 | 7 22 | 1 2 | 24 11 | 3 21 | 8 27 | 7 51 | 25 8 | 16 23 | 4 57 |
| M29 | 17 56 | 21 53 | 2 53 | 15 19 | 1 20 | 9 11 | 7 8 | 23 56 | 0 33 | 1 16 | 1 12 | 18 0 | 2 3 | 19 26 | 0 10 | 7 21 | 1 2 | 24 11 | 3 21 | 8 28 | 7 52 | 25 6 | 16 23 | 4 56 |
| T 30 | 17 40 | 17 42 | 1 55 | 14 38 | 1 12 | 9 11 | 7 19 | 23 54 | 0 34 | 1 20 | 1 11 | 18 1 | 2 3 | 19 26 | 0 10 | 7 20 | 1 2 | 24 11 | 3 21 | 8 30 | 7 53 | 25 4 | 16 24 | 4 56 |
| W31 | 17s23 | 12s48 | 0s52 | 13s56 | 1s 3 | 9s12 | 7n28 | 23s53 | 0s35 | 1n25 | 1s11 | 18s 2 | 2n 3 | 19n26 | 0s10 | 7s19 | 1s 2 | 24n11 | 3n21 | 8s30 | 7s54 | 25s 2 | 16n24 | 4s56 |

Julian Day Number = 2338685.5, Delta T = 17.95 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'37, Lahiri = 19°32'37Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## FEBRUARY 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 45 25 | 12♒26'23 | 10♓39 | 27♒28 | 14°R25 | 7♑36 | 6♈28 | 29♏20 | 27°R19 | 13♓53 | 26°R24 | 8°D12 | 9♓46 | 23♑53 | 5°R26 | T 1 |
| F 2 | 8 49 21 | 13°27'12 | 22°49 | 29° 5 | 13♒48 | 8°20 | 6°40 | 29°23 | 27♉19 | 13°55 | 26♋23 | 8♓13 | 9°42 | 24° 0 | 5♊25 | F 2 |
| S 3 | 8 53 18 | 14°28'00 | 5♈10 | 0♓40 | 13°11 | 9° 5 | 6°51 | 29°27 | 27°19 | 13°57 | 26°21 | 8°15 | 9°39 | 24° 6 | 5°24 | S 3 |
| S 4 | 8 57 14 | 15°28'46 | 17°45 | 2°11 | 12°34 | 9°49 | 7° 3 | 29°30 | 27°D19 | 13°59 | 26°20 | 8°16 | 9°36 | 24°13 | 5°24 | S 4 |
| M 5 | 9 1 11 | 16°29'30 | 0♉37 | 3°39 | 11°57 | 10°34 | 7°14 | 29°33 | 27°19 | 14° 1 | 26°19 | 8°18 | 9°33 | 24°20 | 5°23 | M 5 |
| T 6 | 9 5 7 | 17°30'13 | 13°49 | 5° 2 | 11°21 | 11°19 | 7°26 | 29°36 | 27°19 | 14° 3 | 26°18 | 8°R18 | 9°30 | 24°26 | 5°23 | T 6 |
| W 7 | 9 9 4 | 18°30'54 | 27°24 | 6°21 | 10°47 | 12° 3 | 7°38 | 29°39 | 27°20 | 14° 5 | 26°16 | 8°18 | 9°27 | 24°33 | 5°23 | W 7 |
| T 8 | 9 13 0 | 19°31'34 | 11♊24 | 7°33 | 10°13 | 12°48 | 7°50 | 29°42 | 27°20 | 14° 7 | 26°15 | 8°17 | 9°23 | 24°40 | 5°22 | T 8 |
| F 9 | 9 16 57 | 20°32'12 | 25°47 | 8°40 | 9°41 | 13°33 | 8° 2 | 29°45 | 27°20 | 14° 9 | 26°14 | 8°15 | 9°20 | 24°46 | 5°22 | F 9 |
| S 10 | 9 20 54 | 21°32'48 | 10♋31 | 9°39 | 9°10 | 14°17 | 8°14 | 29°48 | 27°20 | 14°12 | 26°13 | 8°13 | 9°17 | 24°53 | 5°D22 | S 10 |
| S 11 | 9 24 50 | 22°33'23 | 25°31 | 10°30 | 8°42 | 15° 2 | 8°26 | 29°51 | 27°21 | 14°14 | 26°11 | 8°11 | 9°14 | 25° 0 | 5°22 | S 11 |
| M12 | 9 28 47 | 23°33'55 | 10♌37 | 11°12 | 8°15 | 15°47 | 8°38 | 29°53 | 27°21 | 14°16 | 26°10 | 8° 9 | 9°11 | 25° 6 | 5°22 | M12 |
| T 13 | 9 32 43 | 24°34'27 | 25°42 | 11°46 | 7°50 | 16°32 | 8°51 | 29°56 | 27°22 | 14°18 | 26° 9 | 8° 8 | 9° 7 | 25°13 | 5°22 | T 13 |
| W14 | 9 36 40 | 25°34'56 | 10♍36 | 12°10 | 7°28 | 17°17 | 9° 3 | 29°58 | 27°22 | 14°20 | 26° 8 | 8°D 8 | 9° 4 | 25°20 | 5°23 | W14 |
| T 15 | 9 40 36 | 26°35'24 | 25°10 | 12°24 | 7° 7 | 18° 2 | 9°15 | 0♐ 0 | 27°23 | 14°22 | 26° 7 | 8° 8 | 9° 1 | 25°26 | 5°23 | T 15 |
| F 16 | 9 44 33 | 27°35'51 | 9♎21 | 12°R28 | 6°49 | 18°47 | 9°28 | 0° 3 | 27°23 | 14°25 | 26° 6 | 8° 9 | 8°58 | 25°33 | 5°23 | F 16 |
| S 17 | 9 48 29 | 28°36'16 | 23° 5 | 12°21 | 6°34 | 19°32 | 9°41 | 0° 5 | 27°24 | 14°27 | 26° 5 | 8°10 | 8°55 | 25°40 | 5°24 | S 17 |
| S 18 | 9 52 26 | 29°36'40 | 6♏23 | 12° 5 | 6°21 | 20°17 | 9°53 | 0° 7 | 27°25 | 14°29 | 26° 4 | 8°11 | 8°52 | 25°46 | 5°24 | S 18 |
| M19 | 9 56 23 | 0♓37'02 | 19°16 | 11°39 | 6°11 | 21° 2 | 10° 6 | 0° 9 | 27°25 | 14°31 | 26° 2 | 8°12 | 8°48 | 25°53 | 5°25 | M19 |
| T 20 | 10 0 19 | 1°37'23 | 1♐47 | 11° 4 | 6° 3 | 21°47 | 10°19 | 0°10 | 27°26 | 14°33 | 26° 1 | 8°R12 | 8°45 | 26° 0 | 5°26 | T 20 |
| W21 | 10 4 16 | 2°37'43 | 14° 2 | 10°22 | 5°57 | 22°32 | 10°32 | 0°12 | 27°27 | 14°36 | 26° 0 | 8°12 | 8°42 | 26° 7 | 5°26 | W21 |
| T 22 | 10 8 12 | 3°38'01 | 26° 3 | 9°32 | 5°54 | 23°17 | 10°45 | 0°14 | 27°28 | 14°38 | 25°59 | 8°11 | 8°39 | 26°13 | 5°27 | T 22 |
| F 23 | 10 12 9 | 4°38'18 | 7♑57 | 8°37 | 5°D54 | 24° 2 | 10°58 | 0°15 | 27°29 | 14°40 | 25°58 | 8°11 | 8°36 | 26°20 | 5°28 | F 23 |
| S 24 | 10 16 5 | 5°38'33 | 19°46 | 7°38 | 5°56 | 24°47 | 11°11 | 0°17 | 27°30 | 14°42 | 25°57 | 8°10 | 8°33 | 26°27 | 5°29 | S 24 |
| S 25 | 10 20 2 | 6°38'47 | 1♒35 | 6°36 | 6° 0 | 25°33 | 11°24 | 0°18 | 27°31 | 14°45 | 25°56 | 8°10 | 8°29 | 26°33 | 5°30 | S 25 |
| M26 | 10 23 58 | 7°38'59 | 13°27 | 5°33 | 6° 6 | 26°18 | 11°37 | 0°19 | 27°32 | 14°47 | 25°55 | 8°10 | 8°26 | 26°40 | 5°31 | M26 |
| T 27 | 10 27 55 | 8°39'09 | 25°24 | 4°31 | 6°15 | 27° 3 | 11°51 | 0°20 | 27°34 | 14°49 | 25°54 | 8°D10 | 8°23 | 26°47 | 5°33 | T 27 |
| W28 | 10 31 52 | 9♓39'17 | 7♓29 | 3♓30 | 6♒26 | 27♑48 | 12♈ 4 | 0♐21 | 27♉35 | 14♓52 | 25♋53 | 8°R10 | 8♓20 | 26♑53 | 5♊34 | W28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s 6 | 7s23 | 0n13 | 13s13 | 0s54 | 9s14 | 7n37 | 23s51 | 0s35 | 1n29 | 1s11 | 18s 2 | 2n 3 | 19n26 | 0s10 | 7s19 | 1s 2 | 24n12 | 3n21 | 8s30 | 7s55 | 25s 1 | 16n24 | 4s56 |
| F 2 | 16 49 | 1 38 | 1 20 | 12 29 | 0 44 | 9 17 | 7 45 | 23 49 | 0 36 | 1 34 | 1 11 | 18 3 | 2 3 | 19 26 | 0 10 | 7 18 | 1 2 | 24 12 | 3 21 | 8 30 | 7 57 | 24 59 | 16 24 | 4 55 |
| S 3 | 16 31 | 4n15 | 2 23 | 11 46 | 0 32 | 9 20 | 7 52 | 23 47 | 0 37 | 1 39 | 1 11 | 18 3 | 2 3 | 19 26 | 0 10 | 7 17 | 1 2 | 24 12 | 3 21 | 8 30 | 7 58 | 24 57 | 16 24 | 4 55 |
| S 4 | 16 13 | 10 4 | 3 21 | 11 2 | 0 21 | 9 24 | 7 58 | 23 44 | 0 38 | 1 43 | 1 10 | 18 4 | 2 4 | 19 26 | 0 10 | 7 16 | 1 2 | 24 13 | 3 21 | 8 29 | 7 59 | 24 55 | 16 24 | 4 55 |
| M 5 | 15 55 | 15 36 | 4 10 | 10 19 | 0 8 | 9 29 | 8 4 | 23 42 | 0 38 | 1 48 | 1 10 | 18 5 | 2 4 | 19 26 | 0 10 | 7 15 | 1 2 | 24 13 | 3 21 | 8 28 | 8 0 | 24 53 | 16 24 | 4 55 |
| T 6 | 15 37 | 20 35 | 4 47 | 9 36 | 0n 5 | 9 35 | 8 8 | 23 39 | 0 39 | 1 53 | 1 10 | 18 5 | 2 4 | 19 26 | 0 10 | 7 15 | 1 2 | 24 13 | 3 21 | 8 28 | 8 1 | 24 51 | 16 25 | 4 54 |
| W 7 | 15 18 | 24 39 | 5 10 | 8 54 | 0 19 | 9 41 | 8 11 | 23 36 | 0 40 | 1 58 | 1 10 | 18 6 | 2 4 | 19 26 | 0 10 | 7 14 | 1 2 | 24 13 | 3 21 | 8 28 | 8 3 | 24 50 | 16 25 | 4 54 |
| T 8 | 14 59 | 27 23 | 5 15 | 8 14 | 0 34 | 9 47 | 8 14 | 23 32 | 0 40 | 2 3 | 1 10 | 18 6 | 2 4 | 19 26 | 0 10 | 7 13 | 1 2 | 24 14 | 3 21 | 8 29 | 8 4 | 24 48 | 16 25 | 4 54 |
| F 9 | 14 40 | 28 26 | 5 1 | 7 35 | 0 49 | 9 54 | 8 15 | 23 28 | 0 41 | 2 8 | 1 10 | 18 6 | 2 4 | 19 26 | 0 10 | 7 12 | 1 2 | 24 14 | 3 21 | 8 29 | 8 5 | 24 46 | 16 25 | 4 54 |
| S 10 | 14 21 | 27 30 | 4 27 | 6 59 | 1 4 | 10 1 | 8 16 | 23 24 | 0 42 | 2 12 | 1 9 | 18 7 | 2 5 | 19 26 | 0 10 | 7 11 | 1 2 | 24 14 | 3 21 | 8 30 | 8 6 | 24 44 | 16 25 | 4 53 |
| S 11 | 14 1 | 24 35 | 3 35 | 6 25 | 1 20 | 10 9 | 8 15 | 23 20 | 0 42 | 2 17 | 1 9 | 18 7 | 2 5 | 19 27 | 0 10 | 7 11 | 1 2 | 24 15 | 3 21 | 8 31 | 8 7 | 24 42 | 16 26 | 4 53 |
| M12 | 13 41 | 19 57 | 2 26 | 5 54 | 1 36 | 10 16 | 8 14 | 23 16 | 0 43 | 2 22 | 1 9 | 18 8 | 2 5 | 19 27 | 0 10 | 7 10 | 1 2 | 24 15 | 3 21 | 8 32 | 8 9 | 24 40 | 16 26 | 4 53 |
| T 13 | 13 21 | 14 3 | 1 8 | 5 27 | 1 52 | 10 24 | 8 12 | 23 11 | 0 44 | 2 27 | 1 9 | 18 8 | 2 5 | 19 27 | 0 10 | 7 9 | 1 2 | 24 15 | 3 21 | 8 32 | 8 10 | 24 39 | 16 26 | 4 52 |
| W14 | 13 1 | 7 24 | 0s14 | 5 3 | 2 7 | 10 32 | 8 9 | 23 6 | 0 45 | 2 32 | 1 9 | 18 8 | 2 5 | 19 27 | 0 10 | 7 8 | 1 2 | 24 15 | 3 21 | 8 32 | 8 11 | 24 37 | 16 27 | 4 52 |
| T 15 | 12 40 | 0 30 | 1 33 | 4 44 | 2 22 | 10 41 | 8 6 | 23 1 | 0 45 | 2 37 | 1 9 | 18 9 | 2 5 | 19 27 | 0 10 | 7 7 | 1 2 | 24 16 | 3 21 | 8 32 | 8 12 | 24 35 | 16 27 | 4 52 |
| F 16 | 12 20 | 6s14 | 2 45 | 4 29 | 2 37 | 10 49 | 8 2 | 22 55 | 0 46 | 2 43 | 1 8 | 18 9 | 2 6 | 19 27 | 0 10 | 7 6 | 1 2 | 24 16 | 3 21 | 8 32 | 8 13 | 24 33 | 16 27 | 4 52 |
| S 17 | 11 59 | 12 28 | 3 44 | 4 18 | 2 51 | 10 57 | 7 57 | 22 50 | 0 47 | 2 48 | 1 8 | 18 9 | 2 6 | 19 27 | 0 10 | 7 5 | 1 2 | 24 16 | 3 21 | 8 31 | 8 15 | 24 31 | 16 28 | 4 51 |
| S 18 | 11 38 | 17 55 | 4 30 | 4 13 | 3 3 | 11 5 | 7 52 | 22 44 | 0 47 | 2 53 | 1 8 | 18 10 | 2 6 | 19 28 | 0 10 | 7 5 | 1 2 | 24 16 | 3 21 | 8 31 | 8 16 | 24 29 | 16 28 | 4 51 |
| M19 | 11 16 | 22 23 | 5 0 | 4 12 | 3 15 | 11 14 | 7 46 | 22 38 | 0 48 | 2 58 | 1 8 | 18 10 | 2 6 | 19 28 | 0 10 | 7 4 | 1 2 | 24 16 | 3 21 | 8 31 | 8 17 | 24 27 | 16 28 | 4 51 |
| T 20 | 10 55 | 25 42 | 5 15 | 4 16 | 3 24 | 11 22 | 7 40 | 22 31 | 0 49 | 3 3 | 1 8 | 18 10 | 2 6 | 19 28 | 0 10 | 7 3 | 1 2 | 24 17 | 3 21 | 8 31 | 8 18 | 24 25 | 16 29 | 4 51 |
| W21 | 10 33 | 27 45 | 5 16 | 4 25 | 3 32 | 11 29 | 7 33 | 22 25 | 0 50 | 3 8 | 1 8 | 18 10 | 2 6 | 19 28 | 0 10 | 7 2 | 1 2 | 24 17 | 3 21 | 8 31 | 8 19 | 24 23 | 16 29 | 4 50 |
| T 22 | 10 12 | 28 27 | 5 2 | 4 38 | 3 38 | 11 37 | 7 26 | 22 18 | 0 50 | 3 13 | 1 8 | 18 10 | 2 7 | 19 28 | 0 10 | 7 1 | 1 2 | 24 17 | 3 21 | 8 31 | 8 20 | 24 21 | 16 30 | 4 50 |
| F 23 | 9 50 | 27 50 | 4 36 | 4 55 | 3 42 | 11 44 | 7 19 | 22 11 | 0 51 | 3 19 | 1 7 | 18 11 | 2 7 | 19 29 | 0 10 | 7 0 | 1 2 | 24 17 | 3 22 | 8 31 | 8 22 | 24 19 | 16 30 | 4 50 |
| S 24 | 9 28 | 25 56 | 3 58 | 5 15 | 3 44 | 11 51 | 7 11 | 22 3 | 0 52 | 3 24 | 1 7 | 18 11 | 2 7 | 19 29 | 0 10 | 6 59 | 1 2 | 24 18 | 3 22 | 8 31 | 8 23 | 24 18 | 16 30 | 4 49 |
| S 25 | 9 5 | 22 55 | 3 10 | 5 39 | 3 43 | 11 58 | 7 3 | 21 56 | 0 52 | 3 29 | 1 7 | 18 11 | 2 7 | 19 29 | 0 10 | 6 59 | 1 2 | 24 18 | 3 22 | 8 31 | 8 24 | 24 16 | 16 31 | 4 49 |
| M26 | 8 43 | 18 56 | 2 13 | 6 4 | 3 41 | 12 5 | 6 55 | 21 48 | 0 53 | 3 34 | 1 7 | 18 11 | 2 7 | 19 30 | 0 10 | 6 58 | 1 2 | 24 18 | 3 22 | 8 31 | 8 25 | 24 14 | 16 31 | 4 49 |
| T 27 | 8 20 | 14 11 | 1 10 | 6 31 | 3 36 | 12 11 | 6 46 | 21 40 | 0 54 | 3 40 | 1 7 | 18 11 | 2 7 | 19 30 | 0 9 | 6 57 | 1 2 | 24 18 | 3 22 | 8 31 | 8 26 | 24 12 | 16 32 | 4 49 |
| W28 | 7s58 | 8s50 | 0s 4 | 6s59 | 3n29 | 12s17 | 6n37 | 21s32 | 0s54 | 3n45 | 1s 7 | 18s11 | 2n 8 | 19n30 | 0s 9 | 6s56 | 1s 2 | 24n18 | 3n22 | 8s31 | 8s28 | 24s10 | 16n32 | 4s48 |

Julian Day Number = 2338716.5, Delta T = 17.91 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'41, Lahiri = 19°32'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## MARCH 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 35 48 | 10♓39'24 | 19♓44 | 2°R32 | 6♒39 | 28♉34 | 12♈17 | 0♐22 | 27♉36 | 14♓54 | 25°R53 | 8°R10 | 8♓17 | 27♉ 0 | 5♊35 | T 1 |
| F 2 | 10 39 45 | 11°39'28 | 2♈10 | 1♓39 | 6°55 | 29°19 | 12°31 | 0°23 | 27°38 | 14°56 | 25♋52 | 8♓10 | 8°13 | 27° 7 | 5°37 | F 2 |
| S 3 | 10 43 41 | 12°39'31 | 14°47 | 0°50 | 7°12 | 0♒ 4 | 12°44 | 0°24 | 27°39 | 14°58 | 25°51 | 8° 9 | 8°10 | 27°13 | 5°38 | S 3 |
| S 4 | 10 47 38 | 13°39'31 | 27°38 | 0° 7 | 7°31 | 0°50 | 12°58 | 0°24 | 27°40 | 15° 1 | 25°50 | 8° 9 | 8° 7 | 27°20 | 5°40 | S 4 |
| M 5 | 10 51 34 | 14°39'30 | 10♉44 | 29♒31 | 7°52 | 1°35 | 13°11 | 0°25 | 27°42 | 15° 3 | 25°49 | 8° 8 | 8° 4 | 27°27 | 5°42 | M 5 |
| T 6 | 10 55 31 | 15°39'26 | 24° 4 | 29° 0 | 8°15 | 2°21 | 13°25 | 0°25 | 27°43 | 15° 5 | 25°48 | 8° 7 | 8° 1 | 27°33 | 5°43 | T 6 |
| W 7 | 10 59 27 | 16°39'21 | 7♊41 | 28°36 | 8°39 | 3° 6 | 13°39 | 0°26 | 27°45 | 15° 7 | 25°48 | 8° 7 | 7°58 | 27°40 | 5°45 | W 7 |
| T 8 | 11 3 24 | 17°39'13 | 21°34 | 28°19 | 9° 6 | 3°52 | 13°52 | 0°26 | 27°47 | 15°10 | 25°47 | 8°D 7 | 7°54 | 27°47 | 5°47 | T 8 |
| F 9 | 11 7 21 | 18°39'02 | 5♋43 | 28° 8 | 9°34 | 4°37 | 14° 6 | 0°26 | 27°48 | 15°12 | 25°46 | 8° 7 | 7°51 | 27°53 | 5°49 | F 9 |
| S 10 | 11 11 17 | 19°38'50 | 20° 6 | 28°D 4 | 10° 3 | 5°22 | 14°20 | 0°R26 | 27°50 | 15°14 | 25°45 | 8° 8 | 7°48 | 28° 0 | 5°51 | S 10 |
| S 11 | 11 15 14 | 20°38'35 | 4♌40 | 28° 6 | 10°34 | 6° 8 | 14°34 | 0°26 | 27°52 | 15°17 | 25°45 | 8° 9 | 7°45 | 28° 7 | 5°53 | S 11 |
| M12 | 11 19 10 | 21°38'18 | 19°21 | 28°13 | 11° 7 | 6°53 | 14°48 | 0°26 | 27°54 | 15°19 | 25°44 | 8°10 | 7°42 | 28°13 | 5°55 | M12 |
| T 13 | 11 23 7 | 22°37'58 | 4♍ 3 | 28°26 | 11°40 | 7°39 | 15° 2 | 0°25 | 27°55 | 15°21 | 25°43 | 8°R10 | 7°39 | 28°20 | 5°58 | T 13 |
| W14 | 11 27 3 | 23°37'37 | 18°39 | 28°45 | 12°16 | 8°25 | 15°16 | 0°25 | 27°57 | 15°23 | 25°43 | 8°10 | 7°35 | 28°27 | 6° 0 | W14 |
| T 15 | 11 31 0 | 24°37'13 | 3♎ 4 | 29° 9 | 12°52 | 9°10 | 15°30 | 0°24 | 27°59 | 15°26 | 25°42 | 8° 9 | 7°32 | 28°33 | 6° 2 | T 15 |
| F 16 | 11 34 56 | 25°36'48 | 17°10 | 29°37 | 13°30 | 9°56 | 15°44 | 0°24 | 28° 1 | 15°28 | 25°42 | 8° 7 | 7°29 | 28°40 | 6° 5 | F 16 |
| S 17 | 11 38 53 | 26°36'20 | 0♏56 | 0♓10 | 14° 9 | 10°41 | 15°58 | 0°23 | 28° 3 | 15°30 | 25°41 | 8° 5 | 7°26 | 28°47 | 6° 7 | S 17 |
| S 18 | 11 42 50 | 27°35'51 | 14°18 | 0°47 | 14°49 | 11°27 | 16°12 | 0°22 | 28° 5 | 15°32 | 25°40 | 8° 2 | 7°23 | 28°53 | 6°10 | S 18 |
| M19 | 11 46 46 | 28°35'20 | 27°16 | 1°28 | 15°30 | 12°13 | 16°26 | 0°21 | 28° 8 | 15°35 | 25°40 | 7°59 | 7°19 | 29° 0 | 6°12 | M19 |
| T 20 | 11 50 43 | 29°34'47 | 9♐52 | 2°13 | 16°12 | 12°58 | 16°40 | 0°20 | 28°10 | 15°37 | 25°39 | 7°57 | 7°16 | 29° 7 | 6°15 | T 20 |
| W21 | 11 54 39 | 0♈34'13 | 22°10 | 3° 1 | 16°56 | 13°44 | 16°54 | 0°19 | 28°12 | 15°39 | 25°39 | 7°56 | 7°13 | 29°13 | 6°18 | W21 |
| T 22 | 11 58 36 | 1°33'36 | 4♉14 | 3°53 | 17°40 | 14°30 | 17° 9 | 0°18 | 28°14 | 15°41 | 25°39 | 7°D55 | 7°10 | 29°20 | 6°21 | T 22 |
| F 23 | 12 2 32 | 2°32'58 | 16° 8 | 4°47 | 18°25 | 15°15 | 17°23 | 0°17 | 28°16 | 15°43 | 25°38 | 7°56 | 7° 7 | 29°27 | 6°23 | F 23 |
| S 24 | 12 6 29 | 3°32'18 | 27°58 | 5°45 | 19°11 | 16° 1 | 17°37 | 0°15 | 28°19 | 15°46 | 25°38 | 7°57 | 7° 4 | 29°34 | 6°26 | S 24 |
| S 25 | 12 10 25 | 4°31'36 | 9♒47 | 6°46 | 19°58 | 16°47 | 17°51 | 0°14 | 28°21 | 15°48 | 25°37 | 7°59 | 7° 0 | 29°40 | 6°29 | S 25 |
| M26 | 12 14 22 | 5°30'53 | 21°42 | 7°49 | 20°46 | 17°32 | 18° 6 | 0°12 | 28°23 | 15°50 | 25°37 | 8° 1 | 6°57 | 29°47 | 6°33 | M26 |
| T 27 | 12 18 19 | 6°30'07 | 3♓45 | 8°54 | 21°34 | 18°18 | 18°20 | 0°11 | 28°26 | 15°52 | 25°37 | 8°R 2 | 6°54 | 29°54 | 6°36 | T 27 |
| W28 | 12 22 15 | 7°29'20 | 15°59 | 10° 2 | 22°24 | 19° 4 | 18°34 | 0° 9 | 28°28 | 15°54 | 25°36 | 8° 2 | 6°51 | 0♒ 0 | 6°39 | W28 |
| T 29 | 12 26 12 | 8°28'30 | 28°28 | 11°12 | 23°14 | 19°50 | 18°49 | 0° 7 | 28°31 | 15°56 | 25°36 | 8° 0 | 6°48 | 0° 7 | 6°42 | T 29 |
| F 30 | 12 30 8 | 9°27'39 | 11♈12 | 12°25 | 24° 5 | 20°35 | 19° 3 | 0° 5 | 28°33 | 15°59 | 25°36 | 7°57 | 6°44 | 0°14 | 6°45 | F 30 |
| S 31 | 12 34 5 | 10♈26'45 | 24♈12 | 13♓39 | 24♒56 | 21♒21 | 19♈17 | 0♐ 3 | 28♉36 | 16♓ 1 | 25♋36 | 7♓52 | 6♓41 | 0♒20 | 6♊49 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 7s35 | 3s 6 | 1n 4 | 7s28 | 3n21 | 12s22 | 6n28 | 21s23 | 0s55 | 3n50 | 1s 7 | 18s11 | 2n 8 | 19n30 | 0s 9 | 6s55 | 1s 2 | 24n18 | 3n22 | 8s31 | 8s29 | 24s 8 | 16n33 | 4s48 | |
| F 2 | 7 12 | 2n50 | 2 9 | 7 56 | 3 11 | 12 27 | 6 19 | 21 14 | 0 56 | 3 56 | 1 7 | 18 11 | 2 8 | 19 31 | 0 9 | 6 54 | 1 2 | 24 19 | 3 22 | 8 31 | 8 30 | 24 6 | 16 33 | 4 48 | |
| S 3 | 6 49 | 8 45 | 3 10 | 8 24 | 3 0 | 12 32 | 6 10 | 21 5 | 0 57 | 4 1 | 1 6 | 18 11 | 2 8 | 19 31 | 0 9 | 6 53 | 1 2 | 24 19 | 3 22 | 8 32 | 8 31 | 24 4 | 16 34 | 4 48 | |
| S 4 | 6 26 | 14 24 | 4 1 | 8 50 | 2 48 | 12 36 | 6 1 | 20 56 | 0 57 | 4 7 | 1 6 | 18 11 | 2 8 | 19 31 | 0 9 | 6 52 | 1 2 | 24 19 | 3 22 | 8 32 | 8 32 | 24 2 | 16 34 | 4 47 | |
| M 5 | 6 3 | 19 31 | 4 42 | 9 15 | 2 34 | 12 40 | 5 52 | 20 47 | 0 58 | 4 12 | 1 6 | 18 11 | 2 8 | 19 32 | 0 9 | 6 52 | 1 2 | 24 19 | 3 22 | 8 32 | 8 34 | 24 0 | 16 35 | 4 47 | |
| T 6 | 5 40 | 23 47 | 5 8 | 9 39 | 2 21 | 12 43 | 5 42 | 20 37 | 0 59 | 4 17 | 1 6 | 18 11 | 2 9 | 19 32 | 0 9 | 6 51 | 1 2 | 24 19 | 3 22 | 8 32 | 8 35 | 23 58 | 16 35 | 4 47 | |
| W 7 | 5 17 | 26 50 | 5 17 | 10 0 | 2 7 | 12 46 | 5 33 | 20 28 | 0 59 | 4 23 | 1 6 | 18 11 | 2 9 | 19 32 | 0 9 | 6 50 | 1 2 | 24 19 | 3 22 | 8 33 | 8 36 | 23 56 | 16 36 | 4 47 | |
| T 8 | 4 53 | 28 21 | 5 8 | 10 19 | 1 52 | 12 48 | 5 24 | 20 18 | 1 0 | 4 28 | 1 6 | 18 11 | 2 9 | 19 33 | 0 9 | 6 49 | 1 2 | 24 20 | 3 22 | 8 33 | 8 37 | 23 54 | 16 37 | 4 46 | |
| F 9 | 4 30 | 28 2 | 4 41 | 10 37 | 1 38 | 12 50 | 5 14 | 20 7 | 1 1 | 4 34 | 1 6 | 18 10 | 2 9 | 19 33 | 0 9 | 6 48 | 1 2 | 24 20 | 3 22 | 8 32 | 8 38 | 23 52 | 16 37 | 4 46 | |
| S 10 | 4 6 | 25 52 | 3 56 | 10 52 | 1 23 | 12 52 | 5 5 | 19 57 | 1 1 | 4 39 | 1 6 | 18 10 | 2 9 | 19 34 | 0 9 | 6 47 | 1 2 | 24 20 | 3 22 | 8 32 | 8 40 | 23 50 | 16 38 | 4 46 | |
| S 11 | 3 43 | 21 58 | 2 55 | 11 5 | 1 9 | 12 53 | 4 55 | 19 46 | 1 2 | 4 45 | 1 6 | 18 10 | 2 9 | 19 34 | 0 9 | 6 46 | 1 2 | 24 20 | 3 22 | 8 32 | 8 41 | 23 48 | 16 38 | 4 46 | |
| M12 | 3 19 | 16 40 | 1 42 | 11 15 | 0 55 | 12 53 | 4 46 | 19 36 | 1 3 | 4 50 | 1 6 | 18 10 | 2 10 | 19 35 | 0 9 | 6 45 | 1 2 | 24 20 | 3 22 | 8 31 | 8 42 | 23 46 | 16 39 | 4 45 | |
| T 13 | 2 56 | 10 24 | 0 23 | 11 24 | 0 41 | 12 53 | 4 37 | 19 25 | 1 3 | 4 55 | 1 5 | 18 10 | 2 10 | 19 35 | 0 9 | 6 45 | 1 2 | 24 20 | 3 22 | 8 31 | 8 43 | 23 44 | 16 40 | 4 45 | |
| W14 | 2 32 | 3 37 | 0s58 | 11 30 | 0 27 | 12 52 | 4 27 | 19 13 | 1 4 | 5 1 | 1 5 | 18 9 | 2 10 | 19 35 | 0 9 | 6 44 | 1 2 | 24 20 | 3 22 | 8 31 | 8 44 | 23 42 | 16 40 | 4 45 | |
| T 15 | 2 8 | 3s15 | 2 13 | 11 34 | 0 14 | 12 51 | 4 18 | 19 2 | 1 5 | 5 6 | 1 5 | 18 9 | 2 10 | 19 36 | 0 9 | 6 43 | 1 3 | 24 20 | 3 22 | 8 32 | 8 45 | 23 40 | 16 41 | 4 45 | |
| F 16 | 1 45 | 9 49 | 3 19 | 11 36 | 0 1 | 12 49 | 4 9 | 18 50 | 1 5 | 5 12 | 1 5 | 18 9 | 2 10 | 19 36 | 0 9 | 6 42 | 1 3 | 24 21 | 3 22 | 8 32 | 8 47 | 23 37 | 16 41 | 4 44 | |
| S 17 | 1 21 | 15 45 | 4 12 | 11 36 | 0s11 | 12 47 | 4 0 | 18 39 | 1 6 | 5 17 | 1 5 | 18 9 | 2 10 | 19 37 | 0 9 | 6 41 | 1 3 | 24 21 | 3 22 | 8 33 | 8 48 | 23 35 | 16 42 | 4 44 | |
| S 18 | 0 57 | 20 45 | 4 49 | 11 34 | 0 23 | 12 44 | 3 51 | 18 27 | 1 7 | 5 23 | 1 5 | 18 8 | 2 11 | 19 37 | 0 9 | 6 40 | 1 3 | 24 21 | 3 22 | 8 34 | 8 49 | 23 33 | 16 43 | 4 44 | |
| M19 | 0 34 | 24 36 | 5 10 | 11 30 | 0 34 | 12 41 | 3 42 | 18 15 | 1 7 | 5 28 | 1 5 | 18 8 | 2 11 | 19 38 | 0 9 | 6 39 | 1 3 | 24 21 | 3 22 | 8 35 | 8 50 | 23 31 | 16 43 | 4 44 | |
| T 20 | 0 10 | 27 10 | 5 15 | 11 24 | 0 45 | 12 37 | 3 33 | 18 2 | 1 8 | 5 34 | 1 5 | 18 7 | 2 11 | 19 38 | 0 9 | 6 39 | 1 3 | 24 21 | 3 22 | 8 36 | 8 51 | 23 29 | 16 44 | 4 43 | |
| W21 | 0n14 | 28 20 | 5 6 | 11 16 | 0 55 | 12 33 | 3 24 | 17 50 | 1 9 | 5 39 | 1 5 | 18 7 | 2 11 | 19 39 | 0 9 | 6 38 | 1 3 | 24 21 | 3 22 | 8 37 | 8 53 | 23 27 | 16 45 | 4 43 | |
| T 22 | 0 37 | 28 7 | 4 43 | 11 7 | 1 5 | 12 28 | 3 15 | 17 37 | 1 9 | 5 45 | 1 5 | 18 7 | 2 11 | 19 39 | 0 9 | 6 37 | 1 3 | 24 21 | 3 21 | 8 37 | 8 54 | 23 25 | 16 45 | 4 43 | |
| F 23 | 1 1 | 26 36 | 4 8 | 10 55 | 1 14 | 12 23 | 3 6 | 17 24 | 1 10 | 5 50 | 1 5 | 18 6 | 2 11 | 19 40 | 0 9 | 6 36 | 1 3 | 24 21 | 3 21 | 8 37 | 8 55 | 23 23 | 16 46 | 4 43 | |
| S 24 | 1 25 | 23 55 | 3 23 | 10 42 | 1 23 | 12 17 | 2 58 | 17 11 | 1 11 | 5 56 | 1 5 | 18 6 | 2 11 | 19 40 | 0 9 | 6 35 | 1 3 | 24 21 | 3 21 | 8 36 | 8 56 | 23 21 | 16 47 | 4 43 | |
| S 25 | 1 48 | 20 13 | 2 29 | 10 27 | 1 31 | 12 10 | 2 49 | 16 58 | 1 11 | 6 1 | 1 5 | 18 5 | 2 12 | 19 41 | 0 9 | 6 34 | 1 3 | 24 21 | 3 21 | 8 35 | 8 57 | 23 19 | 16 48 | 4 42 | |
| M26 | 2 12 | 15 42 | 1 29 | 10 11 | 1 39 | 12 3 | 2 41 | 16 45 | 1 12 | 6 7 | 1 4 | 18 5 | 2 12 | 19 41 | 0 9 | 6 34 | 1 3 | 24 21 | 3 21 | 8 35 | 8 58 | 23 17 | 16 48 | 4 42 | |
| T 27 | 2 35 | 10 31 | 0 24 | 9 53 | 1 46 | 11 56 | 2 33 | 16 31 | 1 12 | 6 12 | 1 4 | 18 4 | 2 12 | 19 42 | 0 9 | 6 33 | 1 3 | 24 21 | 3 21 | 8 34 | 9 0 | 23 14 | 16 49 | 4 42 | |
| W28 | 2 59 | 4 52 | 0n44 | 9 34 | 1 53 | 11 47 | 2 25 | 16 17 | 1 13 | 6 18 | 1 4 | 18 4 | 2 12 | 19 43 | 0 9 | 6 32 | 1 3 | 24 21 | 3 21 | 8 34 | 9 1 | 23 12 | 16 50 | 4 42 | |
| T 29 | 3 22 | 1n 4 | 1 50 | 9 13 | 1 59 | 11 39 | 2 17 | 16 4 | 1 14 | 6 23 | 1 4 | 18 3 | 2 12 | 19 43 | 0 9 | 6 31 | 1 3 | 24 21 | 3 21 | 8 35 | 9 2 | 23 10 | 16 50 | 4 41 | |
| F 30 | 3 45 | 7 4 | 2 52 | 8 50 | 2 5 | 11 30 | 2 9 | 15 50 | 1 14 | 6 29 | 1 4 | 18 3 | 2 12 | 19 44 | 0 9 | 6 30 | 1 3 | 24 21 | 3 21 | 8 36 | 9 3 | 23 8 | 16 51 | 4 41 | |
| S 31 | 4n 9 | 12n54 | 3n46 | 8s26 | 2s10 | 11s20 | 2n 1 | 15s35 | 1s15 | 6n34 | 1s 4 | 18s 2 | 2n12 | 19n44 | 0s 9 | 6s29 | 1s 3 | 24n21 | 3n21 | 8s38 | 9s 4 | 23s 6 | 16n52 | 4s41 | |

Julian Day Number = 2338744.5, Delta T = 17.87 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'45, Lahiri = 19°32'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## APRIL 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 38 1 | 11♈25'50 | 7♉26 | 14♓56 | 25♒48 | 22♒ 7 | 19♈32 | 0°R 1 | 28♉39 | 16♓ 3 | 25°R36 | 7°R47 | 6♓38 | 0♒27 | 6♊52 | S 1 |
| M 2 | 12 41 58 | 12°24'52 | 20°55 | 16°15 | 26°41 | 22°53 | 19°46 | 29♏59 | 28°41 | 16° 5 | 25♋35 | 7♓41 | 6°35 | 0°34 | 6°56 | M 2 |
| T 3 | 12 45 54 | 13°23'52 | 4♊35 | 17°35 | 27°34 | 23°38 | 20° 1 | 29°56 | 28°44 | 16° 7 | 25°35 | 7°36 | 6°32 | 0°40 | 6°59 | T 3 |
| W 4 | 12 49 51 | 14°22'50 | 18°25 | 18°57 | 28°28 | 24°24 | 20°15 | 29°54 | 28°47 | 16° 9 | 25°35 | 7°32 | 6°29 | 0°47 | 7° 3 | W 4 |
| T 5 | 12 53 47 | 15°21'46 | 2♋24 | 20°21 | 29°22 | 25°10 | 20°30 | 29°52 | 28°49 | 16°11 | 25°35 | 7°30 | 6°25 | 0°54 | 7° 6 | T 5 |
| F 6 | 12 57 44 | 16°20'39 | 16°29 | 21°47 | 0♓17 | 25°56 | 20°44 | 29°49 | 28°52 | 16°13 | 25°35 | 7°D29 | 6°22 | 1° 0 | 7°10 | F 6 |
| S 7 | 13 1 41 | 17°19'30 | 0♌40 | 23°15 | 1°13 | 26°42 | 20°58 | 29°46 | 28°55 | 16°15 | 25°35 | 7°30 | 6°19 | 1° 7 | 7°14 | S 7 |
| S 8 | 13 5 37 | 18°18'19 | 14°54 | 24°44 | 2° 9 | 27°27 | 21°13 | 29°44 | 28°58 | 16°17 | 25°D35 | 7°31 | 6°16 | 1°14 | 7°17 | S 8 |
| M 9 | 13 9 34 | 19°17'05 | 29° 9 | 26°15 | 3° 5 | 28°13 | 21°27 | 29°41 | 29° 1 | 16°19 | 25°35 | 7°32 | 6°13 | 1°20 | 7°21 | M 9 |
| T 10 | 13 13 30 | 20°15'49 | 13♍23 | 27°48 | 4° 2 | 28°59 | 21°42 | 29°38 | 29° 4 | 16°21 | 25°35 | 7°R32 | 6°10 | 1°27 | 7°25 | T 10 |
| W11 | 13 17 27 | 21°14'30 | 27°33 | 29°22 | 5° 0 | 29°45 | 21°56 | 29°35 | 29° 7 | 16°23 | 25°35 | 7°31 | 6° 6 | 1°34 | 7°29 | W11 |
| T 12 | 13 21 23 | 22°13'10 | 11♎35 | 0♈58 | 5°57 | 0♓30 | 22°11 | 29°32 | 29° 9 | 16°25 | 25°35 | 7°27 | 6° 3 | 1°40 | 7°33 | T 12 |
| F 13 | 13 25 20 | 23°11'48 | 25°24 | 2°36 | 6°56 | 1°16 | 22°25 | 29°29 | 29°12 | 16°27 | 25°35 | 7°21 | 6° 0 | 1°47 | 7°37 | F 13 |
| S 14 | 13 29 16 | 24°10'23 | 8♏57 | 4°15 | 7°54 | 2° 2 | 22°40 | 29°26 | 29°15 | 16°29 | 25°35 | 7°14 | 5°57 | 1°54 | 7°41 | S 14 |
| S 15 | 13 33 13 | 25° 8'57 | 22°12 | 5°56 | 8°53 | 2°48 | 22°54 | 29°23 | 29°19 | 16°31 | 25°36 | 7° 5 | 5°54 | 2° 0 | 7°45 | S 15 |
| M16 | 13 37 10 | 26° 7'30 | 5♐ 8 | 7°38 | 9°53 | 3°33 | 23° 8 | 29°19 | 29°22 | 16°33 | 25°36 | 6°57 | 5°50 | 2° 7 | 7°49 | M16 |
| T 17 | 13 41 6 | 27° 6'00 | 17°44 | 9°22 | 10°52 | 4°19 | 23°23 | 29°16 | 29°25 | 16°34 | 25°36 | 6°50 | 5°47 | 2°14 | 7°54 | T 17 |
| W18 | 13 45 3 | 28° 4'29 | 0♑ 2 | 11° 8 | 11°53 | 5° 5 | 23°37 | 29°12 | 29°28 | 16°36 | 25°36 | 6°44 | 5°44 | 2°20 | 7°58 | W18 |
| T 19 | 13 48 59 | 29° 2'56 | 12° 7 | 12°56 | 12°53 | 5°51 | 23°52 | 29° 9 | 29°31 | 16°38 | 25°37 | 6°40 | 5°41 | 2°27 | 8° 2 | T 19 |
| F 20 | 13 52 56 | 0♉ 1'21 | 24° 2 | 14°45 | 13°54 | 6°36 | 24° 6 | 29° 5 | 29°34 | 16°40 | 25°37 | 6°39 | 5°38 | 2°34 | 8° 6 | F 20 |
| S 21 | 13 56 52 | 0°59'45 | 5♒52 | 16°36 | 14°55 | 7°22 | 24°21 | 29° 2 | 29°37 | 16°42 | 25°37 | 6°D39 | 5°35 | 2°40 | 8°11 | S 21 |
| S 22 | 14 0 49 | 1°58'08 | 17°42 | 18°29 | 15°56 | 8° 8 | 24°35 | 28°58 | 29°40 | 16°43 | 25°38 | 6°39 | 5°31 | 2°47 | 8°15 | S 22 |
| M23 | 14 4 45 | 2°56'28 | 29°38 | 20°23 | 16°58 | 8°53 | 24°49 | 28°54 | 29°44 | 16°45 | 25°38 | 6°40 | 5°28 | 2°54 | 8°20 | M23 |
| T 24 | 14 8 42 | 3°54'47 | 11♓45 | 22°19 | 18° 0 | 9°39 | 25° 4 | 28°51 | 29°47 | 16°47 | 25°38 | 6°R40 | 5°25 | 3° 0 | 8°24 | T 24 |
| W25 | 14 12 39 | 4°53'05 | 24° 6 | 24°16 | 19° 2 | 10°25 | 25°18 | 28°47 | 29°50 | 16°49 | 25°39 | 6°39 | 5°22 | 3° 7 | 8°28 | W25 |
| T 26 | 14 16 35 | 5°51'20 | 6♈45 | 26°16 | 20° 5 | 11°10 | 25°32 | 28°43 | 29°53 | 16°50 | 25°39 | 6°35 | 5°19 | 3°14 | 8°33 | T 26 |
| F 27 | 14 20 32 | 6°49'34 | 19°45 | 28°17 | 21° 8 | 11°56 | 25°47 | 28°39 | 29°57 | 16°52 | 25°40 | 6°29 | 5°16 | 3°20 | 8°38 | F 27 |
| S 28 | 14 24 28 | 7°47'47 | 3♉ 5 | 0♉19 | 22°11 | 12°42 | 26° 1 | 28°35 | 29°59 | 16°53 | 25°40 | 6°20 | 5°12 | 3°27 | 8°42 | S 28 |
| S 29 | 14 28 25 | 8°45'58 | 16°44 | 2°23 | 23°14 | 13°27 | 26°15 | 28°31 | 0♊ 3 | 16°55 | 25°41 | 6°10 | 5° 9 | 3°34 | 8°47 | S 29 |
| M30 | 14 32 21 | 9♉44'07 | 0♊40 | 4♉28 | 24♓17 | 14♓13 | 26♈29 | 28♏27 | 0♊ 7 | 16♓57 | 25♋41 | 6♓ 0 | 5♓ 6 | 3♒40 | 8♊51 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n32 | 18n15 | 4n29 | 8s 1 | 2s14 | 11s10 | 1n53 | 15s21 | 1s15 | 6n40 | 1s 4 | 18s 2 | 2n13 | 19n45 | 0s 9 | 6s29 | 1s 3 | 24n21 | 3n21 | 8s40 | 9s 6 | 23s 4 | 16n53 | 4s41 |
| M 2 | 4 55 | 22 48 | 4 58 | 7 34 | 2 19 | 10 59 | 1 45 | 15 7 | 1 16 | 6 45 | 1 4 | 18 1 | 2 13 | 19 45 | 0 9 | 6 28 | 1 3 | 24 22 | 3 21 | 8 42 | 9 7 | 23 2 | 16 53 | 4 41 |
| T 3 | 5 18 | 26 11 | 5 11 | 7 6 | 2 22 | 10 48 | 1 38 | 14 52 | 1 17 | 6 51 | 1 4 | 18 1 | 2 13 | 19 46 | 0 9 | 6 27 | 1 3 | 24 22 | 3 21 | 8 44 | 9 8 | 22 59 | 16 54 | 4 41 |
| W 4 | 5 41 | 28 3 | 5 6 | 6 36 | 2 25 | 10 37 | 1 30 | 14 37 | 1 17 | 6 56 | 1 4 | 18 0 | 2 13 | 19 47 | 0 9 | 6 26 | 1 3 | 24 22 | 3 21 | 8 45 | 9 9 | 22 57 | 16 55 | 4 40 |
| T 5 | 6 4 | 28 10 | 4 42 | 6 5 | 2 28 | 10 25 | 1 23 | 14 23 | 1 18 | 7 2 | 1 4 | 17 59 | 2 13 | 19 47 | 0 9 | 6 26 | 1 3 | 24 22 | 3 21 | 8 46 | 9 10 | 22 55 | 16 56 | 4 40 |
| F 6 | 6 26 | 26 28 | 4 2 | 5 33 | 2 30 | 10 12 | 1 16 | 14 8 | 1 18 | 7 7 | 1 4 | 17 59 | 2 13 | 19 48 | 0 9 | 6 25 | 1 3 | 24 22 | 3 21 | 8 47 | 9 11 | 22 53 | 16 56 | 4 40 |
| S 7 | 6 49 | 23 5 | 3 7 | 5 0 | 2 31 | 9 59 | 1 9 | 13 53 | 1 19 | 7 13 | 1 4 | 17 58 | 2 13 | 19 49 | 0 9 | 6 24 | 1 3 | 24 22 | 3 21 | 8 46 | 9 13 | 22 51 | 16 57 | 4 40 |
| S 8 | 7 11 | 18 18 | 2 0 | 4 26 | 2 32 | 9 46 | 1 2 | 13 37 | 1 20 | 7 18 | 1 4 | 17 57 | 2 13 | 19 49 | 0 9 | 6 23 | 1 3 | 24 21 | 3 21 | 8 46 | 9 14 | 22 48 | 16 58 | 4 40 |
| M 9 | 7 34 | 12 30 | 0 45 | 3 50 | 2 33 | 9 32 | 0 55 | 13 22 | 1 20 | 7 24 | 1 4 | 17 57 | 2 14 | 19 50 | 0 9 | 6 22 | 1 3 | 24 21 | 3 21 | 8 45 | 9 15 | 22 46 | 16 59 | 4 39 |
| T 10 | 7 56 | 6 3 | 0s32 | 3 13 | 2 33 | 9 18 | 0 49 | 13 6 | 1 21 | 7 29 | 1 4 | 17 56 | 2 14 | 19 50 | 0 9 | 6 22 | 1 3 | 24 21 | 3 21 | 8 45 | 9 16 | 22 44 | 17 0 | 4 39 |
| W11 | 8 18 | 0s39 | 1 46 | 2 35 | 2 32 | 9 3 | 0 42 | 12 51 | 1 21 | 7 35 | 1 4 | 17 55 | 2 14 | 19 51 | 0 9 | 6 21 | 1 3 | 24 21 | 3 21 | 8 46 | 9 17 | 22 42 | 17 0 | 4 39 |
| T 12 | 8 40 | 7 15 | 2 54 | 1 56 | 2 31 | 8 48 | 0 35 | 12 35 | 1 22 | 7 40 | 1 4 | 17 54 | 2 14 | 19 52 | 0 9 | 6 20 | 1 3 | 24 21 | 3 21 | 8 47 | 9 18 | 22 40 | 17 1 | 4 39 |
| F 13 | 9 2 | 13 24 | 3 49 | 1 15 | 2 30 | 8 32 | 0 29 | 12 19 | 1 22 | 7 45 | 1 4 | 17 54 | 2 14 | 19 52 | 0 9 | 6 20 | 1 3 | 24 21 | 3 21 | 8 50 | 9 20 | 22 37 | 17 2 | 4 39 |
| S 14 | 9 23 | 18 47 | 4 31 | 0 34 | 2 28 | 8 16 | 0 23 | 12 4 | 1 23 | 7 51 | 1 4 | 17 53 | 2 14 | 19 53 | 0 9 | 6 19 | 1 3 | 24 21 | 3 21 | 8 52 | 9 21 | 22 35 | 17 3 | 4 39 |
| S 15 | 9 45 | 23 8 | 4 57 | 0n 8 | 2 25 | 7 59 | 0 17 | 11 47 | 1 23 | 7 56 | 1 4 | 17 52 | 2 14 | 19 54 | 0 9 | 6 18 | 1 3 | 24 21 | 3 21 | 8 55 | 9 22 | 22 33 | 17 3 | 4 39 |
| M16 | 10 6 | 26 13 | 5 7 | 0 52 | 2 22 | 7 43 | 0 11 | 11 31 | 1 24 | 8 2 | 1 4 | 17 51 | 2 14 | 19 54 | 0 9 | 6 17 | 1 3 | 24 21 | 3 21 | 8 58 | 9 23 | 22 31 | 17 4 | 4 38 |
| T 17 | 10 27 | 27 55 | 5 2 | 1 36 | 2 18 | 7 25 | 0 5 | 11 15 | 1 24 | 8 7 | 1 4 | 17 51 | 2 14 | 19 55 | 0 9 | 6 17 | 1 3 | 24 21 | 3 21 | 9 1 | 9 24 | 22 28 | 17 5 | 4 38 |
| W18 | 10 48 | 28 11 | 4 43 | 2 21 | 2 14 | 7 8 | 0s 1 | 10 59 | 1 25 | 8 12 | 1 4 | 17 50 | 2 14 | 19 56 | 0 9 | 6 16 | 1 3 | 24 21 | 3 21 | 9 3 | 9 25 | 22 26 | 17 6 | 4 38 |
| T 19 | 11 9 | 27 5 | 4 11 | 3 8 | 2 10 | 6 50 | 0 6 | 10 42 | 1 25 | 8 18 | 1 3 | 17 49 | 2 15 | 19 56 | 0 9 | 6 15 | 1 3 | 24 21 | 3 21 | 9 5 | 9 27 | 22 24 | 17 7 | 4 38 |
| F 20 | 11 30 | 24 46 | 3 29 | 3 55 | 2 4 | 6 32 | 0 12 | 10 26 | 1 26 | 8 23 | 1 3 | 17 48 | 2 15 | 19 57 | 0 9 | 6 15 | 1 3 | 24 21 | 3 21 | 9 5 | 9 28 | 22 22 | 17 7 | 4 38 |
| S 21 | 11 50 | 21 23 | 2 38 | 4 42 | 1 59 | 6 13 | 0 17 | 10 9 | 1 26 | 8 28 | 1 3 | 17 47 | 2 15 | 19 58 | 0 9 | 6 14 | 1 3 | 24 21 | 3 21 | 9 5 | 9 29 | 22 19 | 17 8 | 4 38 |
| S 22 | 12 11 | 17 8 | 1 40 | 5 31 | 1 53 | 5 54 | 0 22 | 9 53 | 1 27 | 8 33 | 1 3 | 17 46 | 2 15 | 19 59 | 0 9 | 6 13 | 1 3 | 24 21 | 3 21 | 9 5 | 9 30 | 22 17 | 17 9 | 4 38 |
| M23 | 12 31 | 12 12 | 0 38 | 6 20 | 1 46 | 5 34 | 0 27 | 9 36 | 1 27 | 8 39 | 1 3 | 17 45 | 2 15 | 19 59 | 0 9 | 6 13 | 1 3 | 24 21 | 3 21 | 9 5 | 9 31 | 22 15 | 17 10 | 4 38 |
| T 24 | 12 51 | 6 45 | 0n27 | 7 10 | 1 39 | 5 15 | 0 32 | 9 19 | 1 28 | 8 44 | 1 3 | 17 45 | 2 15 | 20 0 | 0 9 | 6 12 | 1 3 | 24 21 | 3 21 | 9 5 | 9 32 | 22 13 | 17 11 | 4 38 |
| W25 | 13 10 | 0 56 | 1 32 | 8 1 | 1 31 | 4 55 | 0 37 | 9 2 | 1 28 | 8 49 | 1 3 | 17 44 | 2 15 | 20 1 | 0 9 | 6 12 | 1 4 | 24 20 | 3 21 | 9 5 | 9 34 | 22 10 | 17 11 | 4 37 |
| T 26 | 13 30 | 5n 2 | 2 34 | 8 52 | 1 23 | 4 35 | 0 42 | 8 45 | 1 29 | 8 54 | 1 3 | 17 43 | 2 15 | 20 1 | 0 9 | 6 11 | 1 4 | 24 20 | 3 21 | 9 7 | 9 35 | 22 8 | 17 12 | 4 37 |
| F 27 | 13 49 | 10 58 | 3 29 | 9 43 | 1 15 | 4 14 | 0 46 | 8 28 | 1 29 | 9 0 | 1 3 | 17 42 | 2 15 | 20 2 | 0 9 | 6 10 | 1 4 | 24 20 | 3 21 | 9 9 | 9 36 | 22 6 | 17 13 | 4 37 |
| S 28 | 14 8 | 16 33 | 4 14 | 10 35 | 1 6 | 3 53 | 0 51 | 8 11 | 1 30 | 9 5 | 1 3 | 17 41 | 2 15 | 20 3 | 0 9 | 6 10 | 1 4 | 24 20 | 3 21 | 9 12 | 9 37 | 22 3 | 17 14 | 4 37 |
| S 29 | 14 27 | 21 26 | 4 46 | 11 26 | 0 57 | 3 32 | 0 55 | 7 54 | 1 30 | 9 10 | 1 3 | 17 40 | 2 15 | 20 3 | 0 9 | 6 9 | 1 4 | 24 20 | 3 21 | 9 16 | 9 38 | 22 1 | 17 14 | 4 37 |
| M30 | 14n45 | 25n15 | 5n 2 | 12n18 | 0s47 | 3s11 | 0s59 | 7s37 | 1s30 | 9n15 | 1s 3 | 17s39 | 2n15 | 20n 4 | 0s 9 | 6s 9 | 1s 4 | 24n20 | 3n21 | 9s20 | 9s39 | 21s59 | 17n15 | 4s37 |

Julian Day Number = 2338775.5, Delta T = 17.83 sec
Ecliptic obliquity = 23°28'55, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'49, Lahiri = 19°32'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## MAY 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 36 18 | 10♉42'15 | 14♊46 | 6♉35 | 25♓21 | 14♓58 | 26♈44 | 28°R23 | 0♊10 | 16♓58 | 25♋42 | 5°R50 | 5♓ 3 | 3♒47 | 8♊56 | T 1 |
| W 2 | 14 40 14 | 11°40'20 | 29° 0 | 8°43 | 26°25 | 15°44 | 26°58 | 28♏18 | 0°13 | 17° 0 | 25°42 | 5♓43 | 5° 0 | 3°54 | 9° 1 | W 2 |
| T 3 | 14 44 11 | 12°38'24 | 13♋15 | 10°51 | 27°29 | 16°29 | 27°12 | 28°14 | 0°17 | 17° 1 | 25°43 | 5°37 | 4°56 | 4° 0 | 9° 6 | T 3 |
| F 4 | 14 48 8 | 13°36'26 | 27°29 | 13° 1 | 28°34 | 17°15 | 27°26 | 28°10 | 0°20 | 17° 3 | 25°44 | 5°34 | 4°53 | 4° 7 | 9°10 | F 4 |
| S 5 | 14 52 4 | 14°34'26 | 11♌40 | 15°11 | 29°38 | 18° 0 | 27°40 | 28° 6 | 0°24 | 17° 4 | 25°44 | 5°D33 | 4°50 | 4°14 | 9°15 | S 5 |
| S 6 | 14 56 1 | 15°32'23 | 25°45 | 17°22 | 0♈43 | 18°46 | 27°54 | 28° 1 | 0°27 | 17° 5 | 25°45 | 5°33 | 4°47 | 4°20 | 9°20 | S 6 |
| M 7 | 14 59 57 | 16°30'19 | 9♍44 | 19°33 | 1°48 | 19°31 | 28° 9 | 27°57 | 0°30 | 17° 7 | 25°46 | 5°R33 | 4°44 | 4°27 | 9°25 | M 7 |
| T 8 | 15 3 54 | 17°28'13 | 23°36 | 21°43 | 2°53 | 20°17 | 28°23 | 27°53 | 0°34 | 17° 8 | 25°46 | 5°32 | 4°41 | 4°34 | 9°30 | T 8 |
| W 9 | 15 7 50 | 18°26'06 | 7♎21 | 23°53 | 3°58 | 21° 2 | 28°37 | 27°48 | 0°37 | 17° 9 | 25°47 | 5°29 | 4°37 | 4°40 | 9°35 | W 9 |
| T 10 | 15 11 47 | 19°23'56 | 20°57 | 26° 3 | 5° 4 | 21°47 | 28°50 | 27°44 | 0°41 | 17°11 | 25°48 | 5°23 | 4°34 | 4°47 | 9°40 | T 10 |
| F 11 | 15 15 43 | 20°21'45 | 4♏22 | 28°11 | 6° 9 | 22°33 | 29° 4 | 27°40 | 0°44 | 17°12 | 25°49 | 5°14 | 4°31 | 4°54 | 9°45 | F 11 |
| S 12 | 15 19 40 | 21°19'33 | 17°35 | 0♊18 | 7°15 | 23°18 | 29°18 | 27°35 | 0°48 | 17°13 | 25°50 | 5° 3 | 4°28 | 5° 0 | 9°50 | S 12 |
| S 13 | 15 23 37 | 22°17'19 | 0♐34 | 2°24 | 8°21 | 24° 3 | 29°32 | 27°31 | 0°51 | 17°14 | 25°50 | 4°50 | 4°25 | 5° 7 | 9°54 | S 13 |
| M14 | 15 27 33 | 23°15'04 | 13°18 | 4°27 | 9°27 | 24°48 | 29°46 | 27°26 | 0°55 | 17°16 | 25°51 | 4°38 | 4°22 | 5°14 | 10° 0 | M14 |
| T 15 | 15 31 30 | 24°12'47 | 25°47 | 6°29 | 10°33 | 25°33 | 29°59 | 27°22 | 0°58 | 17°17 | 25°52 | 4°26 | 4°18 | 5°20 | 10° 5 | T 15 |
| W16 | 15 35 26 | 25°10'29 | 8♑ 1 | 8°29 | 11°40 | 26°19 | 0♉14 | 27°17 | 1° 2 | 17°18 | 25°53 | 4°17 | 4°15 | 5°27 | 10°10 | W16 |
| T 17 | 15 39 23 | 26° 8'10 | 20° 3 | 10°26 | 12°46 | 27° 4 | 0°27 | 27°13 | 1° 5 | 17°19 | 25°54 | 4°10 | 4°12 | 5°34 | 10°15 | T 17 |
| F 18 | 15 43 19 | 27° 5'50 | 1♒57 | 12°21 | 13°53 | 27°49 | 0°41 | 27° 8 | 1° 9 | 17°20 | 25°55 | 4° 5 | 4° 9 | 5°40 | 10°20 | F 18 |
| S 19 | 15 47 16 | 28° 3'29 | 13°46 | 14°13 | 15° 0 | 28°34 | 0°54 | 27° 4 | 1°12 | 17°21 | 25°56 | 4° 3 | 4° 6 | 5°47 | 10°25 | S 19 |
| S 20 | 15 51 13 | 29° 1'07 | 25°36 | 16° 2 | 16° 7 | 29°19 | 1° 8 | 27° 0 | 1°16 | 17°22 | 25°57 | 4° 3 | 4° 2 | 5°54 | 10°30 | S 20 |
| M21 | 15 55 9 | 29°58'44 | 7♓32 | 17°49 | 17°14 | 0♈ 4 | 1°22 | 26°55 | 1°19 | 17°23 | 25°58 | 4° 3 | 3°59 | 6° 0 | 10°35 | M21 |
| T 22 | 15 59 6 | 0♊56'20 | 19°39 | 19°33 | 18°21 | 0°49 | 1°35 | 26°51 | 1°23 | 17°24 | 25°59 | 4° 2 | 3°56 | 6° 7 | 10°40 | T 22 |
| W23 | 16 3 2 | 1°53'55 | 2♈ 2 | 21°14 | 19°28 | 1°34 | 1°48 | 26°46 | 1°26 | 17°25 | 26° 0 | 4° 0 | 3°53 | 6°14 | 10°45 | W23 |
| T 24 | 16 6 59 | 2°51'29 | 14°47 | 22°52 | 20°36 | 2°18 | 2° 2 | 26°42 | 1°30 | 17°26 | 26° 1 | 3°56 | 3°50 | 6°20 | 10°50 | T 24 |
| F 25 | 16 10 55 | 3°49'02 | 27°55 | 24°26 | 21°43 | 3° 3 | 2°15 | 26°37 | 1°33 | 17°27 | 26° 2 | 3°49 | 3°47 | 6°27 | 10°56 | F 25 |
| S 26 | 16 14 52 | 4°46'34 | 11♉29 | 25°58 | 22°51 | 3°48 | 2°28 | 26°33 | 1°37 | 17°28 | 26° 3 | 3°39 | 3°43 | 6°34 | 11° 1 | S 26 |
| S 27 | 16 18 48 | 5°44'05 | 25°26 | 27°27 | 23°59 | 4°33 | 2°42 | 26°28 | 1°40 | 17°28 | 26° 5 | 3°28 | 3°40 | 6°40 | 11° 6 | S 27 |
| M28 | 16 22 45 | 6°41'36 | 9♊44 | 28°53 | 25° 7 | 5°17 | 2°55 | 26°24 | 1°44 | 17°29 | 26° 6 | 3°17 | 3°37 | 6°47 | 11°11 | M28 |
| T 29 | 16 26 42 | 7°39'05 | 24°16 | 0♋15 | 26°15 | 6° 2 | 3° 8 | 26°20 | 1°47 | 17°30 | 26° 7 | 3° 6 | 3°34 | 6°54 | 11°16 | T 29 |
| W30 | 16 30 38 | 8°36'33 | 8♋55 | 1°35 | 27°23 | 6°47 | 3°21 | 26°15 | 1°51 | 17°31 | 26° 8 | 2°56 | 3°31 | 7° 0 | 11°21 | W30 |
| T 31 | 16 34 35 | 9♊34'01 | 23♋34 | 2♋51 | 28♈31 | 7♈31 | 3♉34 | 26♏11 | 1♊54 | 17♓31 | 26♋ 9 | 2♓50 | 3♓28 | 7♒ 7 | 11♊27 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n 4 | 27n34 | 5n 0 | 13n 9 | 0s37 | 2s49 | 1s 4 | 7s19 | 1s31 | 9n20 | 1s 3 | 17s38 | 2n15 | 20n 5 | 0s 9 | 6s 8 | 1s 4 | 24n20 | 3n21 | 9s23 | 9s41 | 21s56 | 17n16 | 4s37 |
| W 2 | 15 22 | 28 8 | 4 39 | 14 0 | 0 27 | 2 27 | 1 7 | 7 2 | 1 31 | 9 25 | 1 3 | 17 37 | 2 15 | 20 6 | 0 9 | 6 7 | 1 4 | 24 20 | 3 21 | 9 26 | 9 42 | 21 54 | 17 17 | 4 37 |
| T 3 | 15 40 | 26 49 | 4 1 | 14 51 | 0 17 | 2 5 | 1 11 | 6 45 | 1 32 | 9 30 | 1 3 | 17 36 | 2 15 | 20 6 | 0 9 | 6 7 | 1 4 | 24 19 | 3 21 | 9 28 | 9 43 | 21 52 | 17 18 | 4 37 |
| F 4 | 15 57 | 23 46 | 3 8 | 15 40 | 0 6 | 1 43 | 1 15 | 6 27 | 1 32 | 9 36 | 1 3 | 17 35 | 2 15 | 20 7 | 0 9 | 6 6 | 1 4 | 24 19 | 3 21 | 9 29 | 9 44 | 21 49 | 17 18 | 4 37 |
| S 5 | 16 14 | 19 18 | 2 3 | 16 29 | 0n 4 | 1 21 | 1 19 | 6 10 | 1 32 | 9 41 | 1 3 | 17 34 | 2 15 | 20 8 | 0 9 | 6 6 | 1 4 | 24 19 | 3 21 | 9 30 | 9 45 | 21 47 | 17 19 | 4 37 |
| S 6 | 16 31 | 13 46 | 0 52 | 17 17 | 0 15 | 0 58 | 1 22 | 5 52 | 1 33 | 9 46 | 1 3 | 17 33 | 2 15 | 20 9 | 0 9 | 6 5 | 1 4 | 24 19 | 3 21 | 9 30 | 9 46 | 21 45 | 17 20 | 4 37 |
| M 7 | 16 48 | 7 35 | 0s22 | 18 3 | 0 25 | 0 35 | 1 25 | 5 35 | 1 33 | 9 51 | 1 4 | 17 33 | 2 15 | 20 9 | 0 9 | 6 5 | 1 4 | 24 19 | 3 21 | 9 29 | 9 48 | 21 42 | 17 21 | 4 37 |
| T 8 | 17 5 | 1 6 | 1 34 | 18 48 | 0 36 | 0 12 | 1 29 | 5 17 | 1 33 | 9 56 | 1 4 | 17 32 | 2 15 | 20 10 | 0 9 | 6 4 | 1 4 | 24 19 | 3 21 | 9 30 | 9 49 | 21 40 | 17 21 | 4 37 |
| W 9 | 17 21 | 5s22 | 2 40 | 19 31 | 0 46 | 0n11 | 1 32 | 5 0 | 1 34 | 10 1 | 1 4 | 17 31 | 2 15 | 20 11 | 0 8 | 6 4 | 1 4 | 24 19 | 3 21 | 9 31 | 9 50 | 21 38 | 17 22 | 4 37 |
| T 10 | 17 37 | 11 31 | 3 36 | 20 12 | 0 56 | 0 34 | 1 35 | 4 42 | 1 34 | 10 5 | 1 4 | 17 30 | 2 15 | 20 11 | 0 8 | 6 3 | 1 4 | 24 18 | 3 21 | 9 33 | 9 51 | 21 35 | 17 23 | 4 37 |
| F 11 | 17 52 | 17 3 | 4 19 | 20 51 | 1 5 | 0 57 | 1 38 | 4 25 | 1 34 | 10 10 | 1 4 | 17 29 | 2 15 | 20 12 | 0 8 | 6 3 | 1 4 | 24 18 | 3 21 | 9 37 | 9 52 | 21 33 | 17 24 | 4 37 |
| S 12 | 18 7 | 21 42 | 4 47 | 21 28 | 1 15 | 1 21 | 1 40 | 4 7 | 1 35 | 10 15 | 1 4 | 17 28 | 2 15 | 20 13 | 0 8 | 6 2 | 1 4 | 24 18 | 3 21 | 9 41 | 9 53 | 21 31 | 17 24 | 4 36 |
| S 13 | 18 22 | 25 12 | 5 0 | 22 2 | 1 23 | 1 44 | 1 43 | 3 49 | 1 35 | 10 20 | 1 4 | 17 27 | 2 15 | 20 14 | 0 8 | 6 2 | 1 4 | 24 18 | 3 21 | 9 45 | 9 55 | 21 28 | 17 25 | 4 36 |
| M14 | 18 37 | 27 21 | 4 57 | 22 34 | 1 31 | 2 8 | 1 45 | 3 32 | 1 35 | 10 25 | 1 4 | 17 26 | 2 15 | 20 14 | 0 8 | 6 2 | 1 4 | 24 18 | 3 21 | 9 50 | 9 56 | 21 26 | 17 26 | 4 36 |
| T 15 | 18 51 | 28 5 | 4 41 | 23 3 | 1 39 | 2 32 | 1 48 | 3 14 | 1 36 | 10 30 | 1 4 | 17 25 | 2 15 | 20 15 | 0 8 | 6 1 | 1 4 | 24 18 | 3 21 | 9 54 | 9 57 | 21 23 | 17 26 | 4 36 |
| W16 | 19 6 | 27 25 | 4 11 | 23 30 | 1 46 | 2 56 | 1 50 | 2 56 | 1 36 | 10 35 | 1 4 | 17 24 | 2 15 | 20 16 | 0 8 | 6 1 | 1 4 | 24 17 | 3 21 | 9 57 | 9 58 | 21 21 | 17 27 | 4 36 |
| T 17 | 19 19 | 25 27 | 3 30 | 23 54 | 1 52 | 3 20 | 1 52 | 2 39 | 1 36 | 10 39 | 1 4 | 17 23 | 2 15 | 20 17 | 0 8 | 6 0 | 1 4 | 24 17 | 3 21 | 10 0 | 9 59 | 21 19 | 17 28 | 4 36 |
| F 18 | 19 33 | 22 23 | 2 41 | 24 15 | 1 57 | 3 44 | 1 54 | 2 21 | 1 36 | 10 44 | 1 4 | 17 22 | 2 15 | 20 17 | 0 8 | 6 0 | 1 4 | 24 17 | 3 21 | 10 2 | 10 0 | 21 16 | 17 29 | 4 36 |
| S 19 | 19 46 | 18 24 | 1 45 | 24 34 | 2 2 | 4 8 | 1 56 | 2 3 | 1 37 | 10 49 | 1 4 | 17 21 | 2 15 | 20 18 | 0 8 | 6 0 | 1 4 | 24 17 | 3 21 | 10 2 | 10 2 | 21 14 | 17 29 | 4 36 |
| S 20 | 19 58 | 13 43 | 0 45 | 24 50 | 2 6 | 4 32 | 1 58 | 1 45 | 1 37 | 10 53 | 1 4 | 17 20 | 2 15 | 20 19 | 0 8 | 5 59 | 1 5 | 24 17 | 3 21 | 10 3 | 10 3 | 21 11 | 17 30 | 4 37 |
| M21 | 20 11 | 8 29 | 0n18 | 25 4 | 2 9 | 4 56 | 2 0 | 1 28 | 1 37 | 10 58 | 1 4 | 17 19 | 2 15 | 20 19 | 0 8 | 5 59 | 1 5 | 24 16 | 3 21 | 10 3 | 10 4 | 21 9 | 17 31 | 4 37 |
| T 22 | 20 23 | 2 51 | 1 22 | 25 15 | 2 12 | 5 20 | 2 1 | 1 10 | 1 37 | 11 3 | 1 4 | 17 18 | 2 15 | 20 20 | 0 8 | 5 59 | 1 5 | 24 16 | 3 21 | 10 3 | 10 5 | 21 6 | 17 31 | 4 37 |
| W23 | 20 35 | 2n59 | 2 22 | 25 24 | 2 13 | 5 45 | 2 3 | 0 52 | 1 38 | 11 7 | 1 4 | 17 17 | 2 15 | 20 21 | 0 8 | 5 58 | 1 5 | 24 16 | 3 21 | 10 4 | 10 6 | 21 4 | 17 32 | 4 37 |
| T 24 | 20 46 | 8 52 | 3 18 | 25 31 | 2 14 | 6 9 | 2 4 | 0 35 | 1 38 | 11 12 | 1 4 | 17 16 | 2 15 | 20 22 | 0 8 | 5 58 | 1 5 | 24 16 | 3 21 | 10 5 | 10 7 | 21 2 | 17 33 | 4 37 |
| F 25 | 20 57 | 14 33 | 4 4 | 25 36 | 2 14 | 6 33 | 2 5 | 0 17 | 1 38 | 11 16 | 1 4 | 17 15 | 2 15 | 20 22 | 0 8 | 5 58 | 1 5 | 24 16 | 3 21 | 10 8 | 10 8 | 20 59 | 17 33 | 4 37 |
| S 26 | 21 8 | 19 43 | 4 39 | 25 38 | 2 13 | 6 57 | 2 6 | 0n 1 | 1 38 | 11 21 | 1 4 | 17 14 | 2 14 | 20 23 | 0 8 | 5 57 | 1 5 | 24 15 | 3 21 | 10 11 | 10 10 | 20 57 | 17 34 | 4 37 |
| S 27 | 21 18 | 23 58 | 4 58 | 25 39 | 2 11 | 7 21 | 2 7 | 0 18 | 1 38 | 11 25 | 1 4 | 17 13 | 2 14 | 20 24 | 0 8 | 5 57 | 1 5 | 24 15 | 3 21 | 10 15 | 10 11 | 20 54 | 17 35 | 4 37 |
| M28 | 21 28 | 26 52 | 4 59 | 25 38 | 2 9 | 7 45 | 2 8 | 0 36 | 1 39 | 11 30 | 1 4 | 17 12 | 2 14 | 20 25 | 0 8 | 5 57 | 1 5 | 24 15 | 3 21 | 10 19 | 10 12 | 20 52 | 17 35 | 4 37 |
| T 29 | 21 37 | 28 2 | 4 40 | 25 35 | 2 6 | 8 9 | 2 9 | 0 53 | 1 39 | 11 34 | 1 4 | 17 12 | 2 14 | 20 25 | 0 8 | 5 57 | 1 5 | 24 15 | 3 21 | 10 23 | 10 13 | 20 49 | 17 36 | 4 37 |
| W30 | 21 47 | 27 14 | 4 4 | 25 30 | 2 2 | 8 33 | 2 10 | 1 11 | 1 39 | 11 39 | 1 4 | 17 11 | 2 14 | 20 26 | 0 8 | 5 56 | 1 5 | 24 14 | 3 21 | 10 27 | 10 14 | 20 47 | 17 36 | 4 37 |
| T 31 | 21n55 | 24n34 | 3n11 | 25n24 | 1n57 | 8n56 | 2s10 | 1n28 | 1s39 | 11n43 | 1s 4 | 17s10 | 2n14 | 20n27 | 0s 8 | 5s56 | 1s 5 | 24n14 | 3n21 | 10s29 | 10s15 | 20s44 | 17n37 | 4s37 |

Julian Day Number = 2338805.5, Delta T = 17.80 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'54, Lahiri = 19°32'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## JUNE 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 38 31 | 10♊31'27 | 8♌ 6 | 4♋ 4 | 29♈39 | 8♈16 | 3♉47 | 26°R 7 | 1♊58 | 17♓32 | 26♋11 | 2°R46 | 3♓24 | 7♒14 | 11♊32 | F 1 |
| S 2 | 16 42 28 | 11°28'51 | 22°28 | 5°13 | 0♉48 | 9° 0 | 4° 0 | 26♏ 3 | 2° 1 | 17°32 | 26°12 | 2♓44 | 3°21 | 7°20 | 11°37 | S 2 |
| S 3 | 16 46 24 | 12°26'15 | 6♍36 | 6°20 | 1°56 | 9°44 | 4°13 | 25°58 | 2° 5 | 17°33 | 26°13 | 2°44 | 3°18 | 7°27 | 11°42 | S 3 |
| M 4 | 16 50 21 | 13°23'37 | 20°30 | 7°22 | 3° 5 | 10°29 | 4°25 | 25°54 | 2° 8 | 17°34 | 26°14 | 2°44 | 3°15 | 7°34 | 11°47 | M 4 |
| T 5 | 16 54 17 | 14°20'59 | 4♎11 | 8°22 | 4°13 | 11°13 | 4°38 | 25°50 | 2°12 | 17°34 | 26°16 | 2°43 | 3°12 | 7°40 | 11°53 | T 5 |
| W 6 | 16 58 14 | 15°18'19 | 17°39 | 9°17 | 5°22 | 11°57 | 4°51 | 25°46 | 2°15 | 17°35 | 26°17 | 2°40 | 3° 8 | 7°47 | 11°58 | W 6 |
| T 7 | 17 2 11 | 16°15'38 | 0♏54 | 10° 9 | 6°31 | 12°41 | 5° 3 | 25°42 | 2°19 | 17°35 | 26°18 | 2°34 | 3° 5 | 7°53 | 12° 3 | T 7 |
| F 8 | 17 6 7 | 17°12'56 | 13°58 | 10°58 | 7°40 | 13°25 | 5°16 | 25°38 | 2°22 | 17°35 | 26°20 | 2°25 | 3° 2 | 8° 0 | 12° 8 | F 8 |
| S 9 | 17 10 4 | 18°10'14 | 26°50 | 11°42 | 8°49 | 14° 9 | 5°28 | 25°34 | 2°26 | 17°36 | 26°21 | 2°14 | 2°59 | 8° 7 | 12°13 | S 9 |
| S 10 | 17 14 0 | 19° 7'31 | 9♐30 | 12°22 | 9°58 | 14°53 | 5°40 | 25°30 | 2°29 | 17°36 | 26°22 | 2° 2 | 2°56 | 8°13 | 12°19 | S 10 |
| M11 | 17 17 57 | 20° 4'47 | 21°58 | 12°58 | 11° 7 | 15°37 | 5°52 | 25°26 | 2°32 | 17°36 | 26°24 | 1°50 | 2°53 | 8°20 | 12°24 | M11 |
| T 12 | 17 21 53 | 21° 2'02 | 4♑15 | 13°31 | 12°16 | 16°21 | 6° 5 | 25°22 | 2°36 | 17°37 | 26°25 | 1°39 | 2°49 | 8°27 | 12°29 | T 12 |
| W13 | 17 25 50 | 21°59'17 | 16°21 | 13°58 | 13°26 | 17° 4 | 6°17 | 25°19 | 2°39 | 17°37 | 26°27 | 1°29 | 2°46 | 8°33 | 12°34 | W13 |
| T 14 | 17 29 46 | 22°56'32 | 28°18 | 14°22 | 14°35 | 17°48 | 6°29 | 25°15 | 2°43 | 17°37 | 26°28 | 1°22 | 2°43 | 8°40 | 12°39 | T 14 |
| F 15 | 17 33 43 | 23°53'46 | 10♒ 8 | 14°41 | 15°44 | 18°32 | 6°41 | 25°11 | 2°46 | 17°37 | 26°29 | 1°18 | 2°40 | 8°47 | 12°44 | F 15 |
| S 16 | 17 37 40 | 24°51'00 | 21°56 | 14°56 | 16°54 | 19°15 | 6°53 | 25° 8 | 2°49 | 17°38 | 26°31 | 1°15 | 2°37 | 8°53 | 12°50 | S 16 |
| S 17 | 17 41 36 | 25°48'14 | 3♓45 | 15° 6 | 18° 4 | 19°59 | 7° 4 | 25° 4 | 2°53 | 17°38 | 26°32 | 1°D15 | 2°34 | 9° 0 | 12°55 | S 17 |
| M18 | 17 45 33 | 26°45'27 | 15°40 | 15°11 | 19°13 | 20°42 | 7°16 | 25° 1 | 2°56 | 17°38 | 26°34 | 1°15 | 2°30 | 9° 7 | 13° 0 | M18 |
| T 19 | 17 49 29 | 27°42'41 | 27°46 | 15°R12 | 20°23 | 21°25 | 7°28 | 24°57 | 2°59 | 17°38 | 26°35 | 1°R16 | 2°27 | 9°13 | 13° 5 | T 19 |
| W20 | 17 53 26 | 28°39'54 | 10♈ 9 | 15° 8 | 21°33 | 22° 9 | 7°39 | 24°54 | 3° 2 | 17°R38 | 26°37 | 1°15 | 2°24 | 9°20 | 13°10 | W20 |
| T 21 | 17 57 22 | 29°37'07 | 22°53 | 15° 0 | 22°43 | 22°52 | 7°51 | 24°51 | 3° 6 | 17°38 | 26°38 | 1°13 | 2°21 | 9°27 | 13°15 | T 21 |
| F 22 | 18 1 19 | 0♋34'20 | 6♉ 2 | 14°48 | 23°53 | 23°35 | 8° 2 | 24°47 | 3° 9 | 17°38 | 26°40 | 1° 8 | 2°18 | 9°33 | 13°20 | F 22 |
| S 23 | 18 5 15 | 1°31'34 | 19°40 | 14°31 | 25° 3 | 24°18 | 8°13 | 24°44 | 3°12 | 17°38 | 26°41 | 1° 1 | 2°14 | 9°40 | 13°25 | S 23 |
| S 24 | 18 9 12 | 2°28'47 | 3♊45 | 14°11 | 26°13 | 25° 1 | 8°24 | 24°41 | 3°15 | 17°38 | 26°43 | 0°53 | 2°11 | 9°47 | 13°30 | S 24 |
| M25 | 18 13 9 | 3°26'00 | 18°14 | 13°46 | 27°23 | 25°44 | 8°35 | 24°38 | 3°18 | 17°37 | 26°45 | 0°44 | 2° 8 | 9°53 | 13°35 | M25 |
| T 26 | 18 17 5 | 4°23'14 | 3♋ 2 | 13°19 | 28°33 | 26°27 | 8°46 | 24°35 | 3°22 | 17°37 | 26°46 | 0°36 | 2° 5 | 10° 0 | 13°40 | T 26 |
| W27 | 18 21 2 | 5°20'27 | 18° 1 | 12°48 | 29°44 | 27° 9 | 8°57 | 24°33 | 3°25 | 17°37 | 26°48 | 0°29 | 2° 2 | 10° 7 | 13°45 | W27 |
| T 28 | 18 24 58 | 6°17'40 | 3♌ 1 | 12°15 | 0♊54 | 27°52 | 9° 8 | 24°30 | 3°28 | 17°37 | 26°49 | 0°24 | 1°59 | 10°13 | 13°50 | T 28 |
| F 29 | 18 28 55 | 7°14'53 | 17°54 | 11°40 | 2° 4 | 28°34 | 9°19 | 24°27 | 3°31 | 17°37 | 26°51 | 0°22 | 1°55 | 10°20 | 13°55 | F 29 |
| S 30 | 18 32 51 | 8♋12'05 | 2♍33 | 11♋ 4 | 3♊15 | 29♈17 | 9♉29 | 24♏24 | 3♊34 | 17♓36 | 26♋52 | 0°D21 | 1♓52 | 10♒27 | 14♊ 0 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 22n 4 | 20n18 | 2n 6 | 25n16 | 1n51 | 9n20 | 2s11 | 1n46 | 1s39 | 11n47 | 1s 5 | 17s 9 | 2n14 | 20n27 | 0s 8 | 5s56 | 1s 5 | 24n14 | 3n21 | 10s30 | 10s17 | 20s42 | 17n38 | 4s37 |
| S 2 | 22 12 | 14 54 | 0 54 | 25 8 | 1 45 | 9 43 | 2 11 | 2 3 | 1 39 | 11 52 | 1 5 | 17 8 | 2 14 | 20 28 | 0 8 | 5 56 | 1 5 | 24 14 | 3 21 | 10 31 | 10 18 | 20 39 | 17 38 | 4 37 |
| S 3 | 22 20 | 8 47 | 0s20 | 24 58 | 1 38 | 10 7 | 2 11 | 2 20 | 1 39 | 11 56 | 1 5 | 17 7 | 2 14 | 20 29 | 0 8 | 5 56 | 1 5 | 24 14 | 3 21 | 10 31 | 10 19 | 20 37 | 17 39 | 4 37 |
| M 4 | 22 27 | 2 21 | 1 33 | 24 46 | 1 30 | 10 30 | 2 11 | 2 38 | 1 39 | 12 0 | 1 5 | 17 6 | 2 13 | 20 29 | 0 8 | 5 55 | 1 5 | 24 13 | 3 21 | 10 31 | 10 20 | 20 34 | 17 39 | 4 37 |
| T 5 | 22 34 | 4s 5 | 2 38 | 24 34 | 1 21 | 10 53 | 2 11 | 2 55 | 1 40 | 12 4 | 1 5 | 17 5 | 2 13 | 20 30 | 0 8 | 5 55 | 1 5 | 24 13 | 3 21 | 10 31 | 10 21 | 20 32 | 17 40 | 4 38 |
| W 6 | 22 40 | 10 14 | 3 34 | 24 21 | 1 12 | 11 16 | 2 11 | 3 12 | 1 40 | 12 8 | 1 5 | 17 5 | 2 13 | 20 31 | 0 8 | 5 55 | 1 5 | 24 13 | 3 21 | 10 33 | 10 22 | 20 29 | 17 41 | 4 38 |
| T 7 | 22 46 | 15 49 | 4 17 | 24 7 | 1 2 | 11 39 | 2 11 | 3 29 | 1 40 | 12 12 | 1 5 | 17 4 | 2 13 | 20 32 | 0 8 | 5 55 | 1 5 | 24 13 | 3 21 | 10 35 | 10 23 | 20 27 | 17 41 | 4 38 |
| F 8 | 22 52 | 20 36 | 4 46 | 23 53 | 0 51 | 12 1 | 2 11 | 3 46 | 1 40 | 12 17 | 1 5 | 17 3 | 2 13 | 20 32 | 0 8 | 5 55 | 1 5 | 24 12 | 3 21 | 10 38 | 10 25 | 20 24 | 17 42 | 4 38 |
| S 9 | 22 57 | 24 21 | 5 0 | 23 37 | 0 39 | 12 24 | 2 11 | 4 3 | 1 40 | 12 21 | 1 5 | 17 2 | 2 13 | 20 33 | 0 8 | 5 55 | 1 5 | 24 12 | 3 21 | 10 42 | 10 26 | 20 22 | 17 42 | 4 38 |
| S 10 | 23 2 | 26 50 | 4 59 | 23 22 | 0 27 | 12 46 | 2 10 | 4 20 | 1 40 | 12 25 | 1 5 | 17 1 | 2 13 | 20 34 | 0 8 | 5 55 | 1 5 | 24 12 | 3 21 | 10 46 | 10 27 | 20 19 | 17 43 | 4 38 |
| M11 | 23 7 | 27 57 | 4 43 | 23 5 | 0 15 | 13 8 | 2 10 | 4 37 | 1 40 | 12 29 | 1 5 | 17 1 | 2 13 | 20 34 | 0 8 | 5 55 | 1 5 | 24 12 | 3 21 | 10 51 | 10 28 | 20 17 | 17 43 | 4 38 |
| T 12 | 23 11 | 27 39 | 4 15 | 22 49 | 0 1 | 13 30 | 2 9 | 4 54 | 1 40 | 12 32 | 1 5 | 17 0 | 2 12 | 20 35 | 0 8 | 5 55 | 1 6 | 24 11 | 3 21 | 10 55 | 10 29 | 20 14 | 17 44 | 4 38 |
| W13 | 23 14 | 26 2 | 3 35 | 22 32 | 0s13 | 13 51 | 2 9 | 5 11 | 1 40 | 12 36 | 1 5 | 16 59 | 2 12 | 20 36 | 0 8 | 5 54 | 1 6 | 24 11 | 3 21 | 10 58 | 10 30 | 20 12 | 17 44 | 4 38 |
| T 14 | 23 18 | 23 15 | 2 46 | 22 15 | 0 27 | 14 12 | 2 8 | 5 28 | 1 40 | 12 40 | 1 6 | 16 58 | 2 12 | 20 36 | 0 8 | 5 54 | 1 6 | 24 11 | 3 21 | 11 0 | 10 31 | 20 9 | 17 45 | 4 39 |
| F 15 | 23 20 | 19 30 | 1 50 | 21 58 | 0 42 | 14 33 | 2 7 | 5 44 | 1 40 | 12 44 | 1 6 | 16 58 | 2 12 | 20 37 | 0 8 | 5 54 | 1 6 | 24 11 | 3 21 | 11 2 | 10 33 | 20 7 | 17 45 | 4 39 |
| S 16 | 23 23 | 15 0 | 0 50 | 21 41 | 0 58 | 14 54 | 2 6 | 6 1 | 1 40 | 12 48 | 1 6 | 16 57 | 2 12 | 20 38 | 0 8 | 5 54 | 1 6 | 24 10 | 3 21 | 11 3 | 10 34 | 20 4 | 17 46 | 4 39 |
| S 17 | 23 25 | 9 57 | 0n13 | 21 25 | 1 13 | 15 14 | 2 5 | 6 17 | 1 40 | 12 52 | 1 6 | 16 56 | 2 12 | 20 38 | 0 8 | 5 54 | 1 6 | 24 10 | 3 21 | 11 3 | 10 35 | 20 2 | 17 46 | 4 39 |
| M18 | 23 27 | 4 29 | 1 16 | 21 8 | 1 29 | 15 34 | 2 4 | 6 33 | 1 40 | 12 55 | 1 6 | 16 56 | 2 11 | 20 39 | 0 8 | 5 54 | 1 6 | 24 10 | 3 21 | 11 3 | 10 36 | 19 59 | 17 47 | 4 39 |
| T 19 | 23 28 | 1n12 | 2 17 | 20 52 | 1 46 | 15 54 | 2 3 | 6 50 | 1 40 | 12 59 | 1 6 | 16 55 | 2 11 | 20 40 | 0 8 | 5 54 | 1 6 | 24 10 | 3 21 | 11 3 | 10 37 | 19 56 | 17 47 | 4 39 |
| W20 | 23 28 | 6 58 | 3 12 | 20 36 | 2 2 | 16 14 | 2 1 | 7 6 | 1 39 | 13 3 | 1 6 | 16 54 | 2 11 | 20 40 | 0 8 | 5 54 | 1 6 | 24 9 | 3 21 | 11 3 | 10 38 | 19 54 | 17 48 | 4 40 |
| T 21 | 23 29 | 12 37 | 4 0 | 20 21 | 2 18 | 16 33 | 2 0 | 7 22 | 1 39 | 13 6 | 1 6 | 16 54 | 2 11 | 20 41 | 0 8 | 5 55 | 1 6 | 24 9 | 3 21 | 11 4 | 10 39 | 19 51 | 17 48 | 4 40 |
| F 22 | 23 29 | 17 54 | 4 37 | 20 6 | 2 34 | 16 51 | 1 59 | 7 38 | 1 39 | 13 10 | 1 6 | 16 53 | 2 11 | 20 41 | 0 8 | 5 55 | 1 6 | 24 9 | 3 21 | 11 5 | 10 41 | 19 49 | 17 49 | 4 40 |
| S 23 | 23 28 | 22 29 | 4 59 | 19 52 | 2 50 | 17 10 | 1 57 | 7 54 | 1 39 | 13 13 | 1 6 | 16 53 | 2 10 | 20 42 | 0 8 | 5 55 | 1 6 | 24 8 | 3 21 | 11 8 | 10 42 | 19 46 | 17 49 | 4 40 |
| S 24 | 23 27 | 25 55 | 5 5 | 19 39 | 3 6 | 17 28 | 1 56 | 8 10 | 1 39 | 13 17 | 1 7 | 16 52 | 2 10 | 20 43 | 0 8 | 5 55 | 1 6 | 24 8 | 3 21 | 11 11 | 10 43 | 19 44 | 17 49 | 4 40 |
| M25 | 23 26 | 27 48 | 4 51 | 19 27 | 3 20 | 17 45 | 1 54 | 8 26 | 1 39 | 13 20 | 1 7 | 16 52 | 2 10 | 20 43 | 0 8 | 5 55 | 1 6 | 24 8 | 3 21 | 11 14 | 10 44 | 19 41 | 17 50 | 4 41 |
| T 26 | 23 25 | 27 45 | 4 18 | 19 15 | 3 35 | 18 3 | 1 52 | 8 41 | 1 39 | 13 24 | 1 7 | 16 51 | 2 10 | 20 44 | 0 8 | 5 55 | 1 6 | 24 8 | 3 21 | 11 17 | 10 45 | 19 38 | 17 50 | 4 41 |
| W27 | 23 22 | 25 41 | 3 27 | 19 5 | 3 48 | 18 20 | 1 51 | 8 57 | 1 39 | 13 27 | 1 7 | 16 51 | 2 10 | 20 44 | 0 8 | 5 55 | 1 6 | 24 7 | 3 21 | 11 19 | 10 46 | 19 36 | 17 51 | 4 41 |
| T 28 | 23 20 | 21 49 | 2 21 | 18 56 | 4 0 | 18 36 | 1 49 | 9 12 | 1 38 | 13 30 | 1 7 | 16 50 | 2 9 | 20 45 | 0 8 | 5 55 | 1 6 | 24 7 | 3 21 | 11 21 | 10 47 | 19 33 | 17 51 | 4 41 |
| F 29 | 23 17 | 16 33 | 1 6 | 18 47 | 4 12 | 18 52 | 1 47 | 9 27 | 1 38 | 13 34 | 1 7 | 16 50 | 2 9 | 20 46 | 0 8 | 5 55 | 1 6 | 24 7 | 3 21 | 11 22 | 10 49 | 19 31 | 17 51 | 4 41 |
| S 30 | 23n14 | 10n24 | 0s12 | 18n41 | 4s21 | 19n 7 | 1s45 | 9n43 | 1s38 | 13n37 | 1s 7 | 16s49 | 2n 9 | 20n46 | 0s 8 | 5s55 | 1s 6 | 24n 6 | 3n21 | 11s22 | 10s50 | 19s28 | 17n52 | 4s42 |

Julian Day Number = 2338836.5, Delta T = 17.76 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°25'58, Lahiri = 19°32'58Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## JULY 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 36 48 | 9♋ 9'17 | 16♍54 | 10°R27 | 4♊25 | 29♈59 | 9♉40 | 24°R22 | 3♊37 | 17°R36 | 26♋54 | 0♓22 | 1♓49 | 10♒33 | 14♊ 5 | S 1 |
| M 2 | 18 40 45 | 10° 6'29 | 0♎54 | 9♋50 | 5°36 | 0♉41 | 9°50 | 24♏19 | 3°40 | 17♓36 | 26°56 | 0°23 | 1°46 | 10°40 | 14°10 | M 2 |
| T 3 | 18 44 41 | 11° 3'41 | 14°34 | 9°13 | 6°47 | 1°23 | 10° 0 | 24°17 | 3°43 | 17°35 | 26°57 | 0°R23 | 1°43 | 10°47 | 14°15 | T 3 |
| W 4 | 18 48 38 | 12° 0'52 | 27°55 | 8°37 | 7°57 | 2° 5 | 10°10 | 24°15 | 3°46 | 17°35 | 26°59 | 0°22 | 1°40 | 10°53 | 14°20 | W 4 |
| T 5 | 18 52 34 | 12°58'04 | 10♏59 | 8° 3 | 9° 8 | 2°47 | 10°20 | 24°13 | 3°49 | 17°34 | 27° 1 | 0°18 | 1°36 | 11° 0 | 14°24 | T 5 |
| F 6 | 18 56 31 | 13°55'15 | 23°48 | 7°32 | 10°19 | 3°29 | 10°30 | 24°10 | 3°52 | 17°34 | 27° 2 | 0°13 | 1°33 | 11° 7 | 14°29 | F 6 |
| S 7 | 19 0 27 | 14°52'27 | 6♐23 | 7° 3 | 11°30 | 4°11 | 10°40 | 24° 8 | 3°55 | 17°33 | 27° 4 | 0° 7 | 1°30 | 11°13 | 14°34 | S 7 |
| S 8 | 19 4 24 | 15°49'38 | 18°47 | 6°38 | 12°41 | 4°52 | 10°50 | 24° 7 | 3°57 | 17°33 | 27° 5 | 29♒59 | 1°27 | 11°20 | 14°38 | S 8 |
| M 9 | 19 8 20 | 16°46'50 | 1♑ 0 | 6°16 | 13°52 | 5°34 | 10°59 | 24° 5 | 4° 0 | 17°32 | 27° 7 | 29°51 | 1°24 | 11°27 | 14°43 | M 9 |
| T 10 | 19 12 17 | 17°44'02 | 13° 5 | 5°59 | 15° 3 | 6°15 | 11° 9 | 24° 3 | 4° 3 | 17°32 | 27° 9 | 29°44 | 1°20 | 11°33 | 14°48 | T 10 |
| W11 | 19 16 14 | 18°41'14 | 25° 2 | 5°47 | 16°14 | 6°57 | 11°18 | 24° 1 | 4° 6 | 17°31 | 27°10 | 29°38 | 1°17 | 11°40 | 14°52 | W11 |
| T 12 | 19 20 10 | 19°38'27 | 6♒53 | 5°40 | 17°25 | 7°38 | 11°27 | 24° 0 | 4° 9 | 17°30 | 27°12 | 29°34 | 1°14 | 11°46 | 14°57 | T 12 |
| F 13 | 19 24 7 | 20°35'40 | 18°41 | 5°D38 | 18°36 | 8°19 | 11°36 | 23°58 | 4°11 | 17°30 | 27°14 | 29°31 | 1°11 | 11°53 | 15° 2 | F 13 |
| S 14 | 19 28 3 | 21°32'53 | 0♓29 | 5°41 | 19°47 | 9° 0 | 11°45 | 23°57 | 4°14 | 17°29 | 27°15 | 29°D31 | 1° 8 | 12° 0 | 15° 6 | S 14 |
| S 15 | 19 32 0 | 22°30'07 | 12°18 | 5°50 | 20°59 | 9°41 | 11°54 | 23°55 | 4°16 | 17°28 | 27°17 | 29°31 | 1° 5 | 12° 6 | 15°11 | S 15 |
| M16 | 19 35 56 | 23°27'22 | 24°15 | 6° 4 | 22°10 | 10°22 | 12° 3 | 23°54 | 4°19 | 17°27 | 27°19 | 29°33 | 1° 1 | 12°13 | 15°15 | M16 |
| T 17 | 19 39 53 | 24°24'38 | 6♈21 | 6°25 | 23°22 | 11° 2 | 12°12 | 23°53 | 4°22 | 17°26 | 27°20 | 29°34 | 0°58 | 12°20 | 15°19 | T 17 |
| W18 | 19 43 49 | 25°21'54 | 18°43 | 6°51 | 24°33 | 11°43 | 12°20 | 23°52 | 4°24 | 17°26 | 27°22 | 29°35 | 0°55 | 12°26 | 15°24 | W18 |
| T 19 | 19 47 46 | 26°19'11 | 1♉26 | 7°23 | 25°45 | 12°23 | 12°28 | 23°51 | 4°27 | 17°25 | 27°24 | 29°R36 | 0°52 | 12°33 | 15°28 | T 19 |
| F 20 | 19 51 43 | 27°16'29 | 14°32 | 8° 0 | 26°56 | 13° 4 | 12°37 | 23°50 | 4°29 | 17°24 | 27°26 | 29°34 | 0°49 | 12°40 | 15°32 | F 20 |
| S 21 | 19 55 39 | 28°13'49 | 28° 5 | 8°44 | 28° 8 | 13°44 | 12°45 | 23°50 | 4°31 | 17°23 | 27°27 | 29°32 | 0°46 | 12°46 | 15°37 | S 21 |
| S 22 | 19 59 36 | 29°11'09 | 12♊ 6 | 9°32 | 29°20 | 14°24 | 12°52 | 23°49 | 4°34 | 17°22 | 27°29 | 29°28 | 0°42 | 12°53 | 15°41 | S 22 |
| M23 | 20 3 32 | 0♌ 8'30 | 26°34 | 10°27 | 0♋32 | 15° 4 | 13° 0 | 23°48 | 4°36 | 17°21 | 27°31 | 29°24 | 0°39 | 13° 0 | 15°45 | M23 |
| T 24 | 20 7 29 | 1° 5'52 | 11♋24 | 11°27 | 1°43 | 15°44 | 13° 8 | 23°48 | 4°38 | 17°20 | 27°32 | 29°20 | 0°36 | 13° 6 | 15°49 | T 24 |
| W25 | 20 11 25 | 2° 3'15 | 26°30 | 12°33 | 2°55 | 16°23 | 13°15 | 23°47 | 4°41 | 17°19 | 27°34 | 29°17 | 0°33 | 13°13 | 15°53 | W25 |
| T 26 | 20 15 22 | 3° 0'39 | 11♌41 | 13°44 | 4° 7 | 17° 3 | 13°23 | 23°47 | 4°43 | 17°18 | 27°36 | 29°15 | 0°30 | 13°20 | 15°57 | T 26 |
| F 27 | 20 19 18 | 3°58'04 | 26°49 | 15° 0 | 5°19 | 17°42 | 13°30 | 23°47 | 4°45 | 17°17 | 27°37 | 29°D14 | 0°26 | 13°26 | 16° 1 | F 27 |
| S 28 | 20 23 15 | 4°55'29 | 11♍44 | 16°21 | 6°31 | 18°21 | 13°37 | 23°D47 | 4°47 | 17°16 | 27°39 | 29°14 | 0°23 | 13°33 | 16° 5 | S 28 |
| S 29 | 20 27 12 | 5°52'55 | 26°19 | 17°46 | 7°43 | 19° 0 | 13°44 | 23°47 | 4°49 | 17°15 | 27°41 | 29°15 | 0°20 | 13°40 | 16° 9 | S 29 |
| M30 | 20 31 8 | 6°50'21 | 10♎32 | 19°17 | 8°56 | 19°39 | 13°50 | 23°47 | 4°51 | 17°14 | 27°42 | 29°17 | 0°17 | 13°46 | 16°13 | M30 |
| T 31 | 20 35 5 | 7♌47'48 | 24♎19 | 20♋52 | 10♋ 8 | 20♉18 | 13♉57 | 23♏47 | 4♊53 | 17♓12 | 27♋44 | 29♒18 | 0♓14 | 13♒53 | 16♊17 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n10 | 3n50 | 1s28 | 18n35 | 4s30 | 19n22 | 1s43 | 9n58 | 1s38 | 13n40 | 1s 7 | 16s49 | 2n 9 | 20n47 | 0s 8 | 5s56 | 1s 6 | 24n 6 | 3n21 | 11s22 | 10s51 | 19s25 | 17n52 | 4s42 |
| M 2 | 23 6 | 2s45 | 2 37 | 18 31 | 4 37 | 19 37 | 1 41 | 10 13 | 1 38 | 13 43 | 1 7 | 16 48 | 2 9 | 20 47 | 0 8 | 5 56 | 1 6 | 24 6 | 3 21 | 11 22 | 10 52 | 19 23 | 17 52 | 4 42 |
| T 3 | 23 1 | 9 3 | 3 35 | 18 28 | 4 43 | 19 51 | 1 39 | 10 27 | 1 37 | 13 46 | 1 8 | 16 48 | 2 8 | 20 48 | 0 8 | 5 56 | 1 6 | 24 6 | 3 21 | 11 21 | 10 53 | 19 20 | 17 53 | 4 42 |
| W 4 | 22 56 | 14 48 | 4 20 | 18 26 | 4 47 | 20 5 | 1 37 | 10 42 | 1 37 | 13 49 | 1 8 | 16 48 | 2 8 | 20 49 | 0 8 | 5 56 | 1 7 | 24 5 | 3 21 | 11 22 | 10 54 | 19 17 | 17 53 | 4 43 |
| T 5 | 22 51 | 19 45 | 4 51 | 18 26 | 4 49 | 20 18 | 1 35 | 10 57 | 1 37 | 13 52 | 1 8 | 16 47 | 2 8 | 20 49 | 0 8 | 5 56 | 1 7 | 24 5 | 3 21 | 11 23 | 10 55 | 19 15 | 17 53 | 4 43 |
| F 6 | 22 45 | 23 42 | 5 6 | 18 27 | 4 50 | 20 31 | 1 32 | 11 11 | 1 37 | 13 55 | 1 8 | 16 47 | 2 8 | 20 50 | 0 8 | 5 57 | 1 7 | 24 5 | 3 21 | 11 25 | 10 56 | 19 12 | 17 53 | 4 43 |
| S 7 | 22 39 | 26 26 | 5 6 | 18 29 | 4 49 | 20 43 | 1 30 | 11 25 | 1 36 | 13 58 | 1 8 | 16 47 | 2 8 | 20 50 | 0 8 | 5 57 | 1 7 | 24 5 | 3 22 | 11 27 | 10 58 | 19 9 | 17 54 | 4 43 |
| S 8 | 22 32 | 27 51 | 4 52 | 18 33 | 4 47 | 20 54 | 1 28 | 11 40 | 1 36 | 14 1 | 1 8 | 16 47 | 2 7 | 20 51 | 0 8 | 5 57 | 1 7 | 24 4 | 3 22 | 11 30 | 10 59 | 19 7 | 17 54 | 4 44 |
| M 9 | 22 26 | 27 53 | 4 24 | 18 37 | 4 43 | 21 6 | 1 25 | 11 54 | 1 36 | 14 4 | 1 8 | 16 46 | 2 7 | 20 51 | 0 8 | 5 57 | 1 7 | 24 4 | 3 22 | 11 33 | 11 0 | 19 4 | 17 54 | 4 44 |
| T 10 | 22 18 | 26 34 | 3 45 | 18 44 | 4 37 | 21 16 | 1 23 | 12 8 | 1 35 | 14 7 | 1 9 | 16 46 | 2 7 | 20 52 | 0 8 | 5 58 | 1 7 | 24 4 | 3 22 | 11 35 | 11 1 | 19 2 | 17 54 | 4 44 |
| W11 | 22 11 | 24 3 | 2 56 | 18 51 | 4 31 | 21 26 | 1 20 | 12 22 | 1 35 | 14 10 | 1 9 | 16 46 | 2 7 | 20 52 | 0 8 | 5 58 | 1 7 | 24 3 | 3 22 | 11 37 | 11 2 | 18 59 | 17 55 | 4 44 |
| T 12 | 22 2 | 20 31 | 2 0 | 18 59 | 4 23 | 21 36 | 1 18 | 12 35 | 1 35 | 14 12 | 1 9 | 16 46 | 2 6 | 20 53 | 0 8 | 5 58 | 1 7 | 24 3 | 3 22 | 11 39 | 11 3 | 18 56 | 17 55 | 4 45 |
| F 13 | 21 54 | 16 11 | 0 59 | 19 8 | 4 14 | 21 44 | 1 15 | 12 49 | 1 34 | 14 15 | 1 9 | 16 46 | 2 6 | 20 53 | 0 8 | 5 59 | 1 7 | 24 3 | 3 22 | 11 40 | 11 4 | 18 54 | 17 55 | 4 45 |
| S 14 | 21 45 | 11 14 | 0n 5 | 19 18 | 4 4 | 21 53 | 1 13 | 13 2 | 1 34 | 14 18 | 1 9 | 16 46 | 2 6 | 20 54 | 0 8 | 5 59 | 1 7 | 24 3 | 3 22 | 11 40 | 11 6 | 18 51 | 17 55 | 4 45 |
| S 15 | 21 36 | 5 53 | 1 9 | 19 29 | 3 53 | 22 1 | 1 10 | 13 16 | 1 34 | 14 20 | 1 9 | 16 45 | 2 6 | 20 54 | 0 8 | 5 59 | 1 7 | 24 2 | 3 22 | 11 40 | 11 7 | 18 48 | 17 55 | 4 46 |
| M16 | 21 26 | 0 17 | 2 11 | 19 40 | 3 41 | 22 8 | 1 7 | 13 29 | 1 33 | 14 23 | 1 9 | 16 45 | 2 5 | 20 55 | 0 8 | 6 0 | 1 7 | 24 2 | 3 22 | 11 39 | 11 8 | 18 46 | 17 56 | 4 46 |
| T 17 | 21 16 | 5n24 | 3 8 | 19 52 | 3 28 | 22 14 | 1 5 | 13 42 | 1 33 | 14 25 | 1 10 | 16 45 | 2 5 | 20 55 | 0 8 | 6 0 | 1 7 | 24 2 | 3 22 | 11 39 | 11 9 | 18 43 | 17 56 | 4 46 |
| W18 | 21 6 | 11 0 | 3 57 | 20 4 | 3 15 | 22 20 | 1 2 | 13 55 | 1 32 | 14 28 | 1 10 | 16 45 | 2 5 | 20 56 | 0 8 | 6 0 | 1 7 | 24 2 | 3 22 | 11 38 | 11 10 | 18 40 | 17 56 | 4 46 |
| T 19 | 20 56 | 16 18 | 4 36 | 20 16 | 3 1 | 22 25 | 0 59 | 14 7 | 1 32 | 14 30 | 1 10 | 16 45 | 2 5 | 20 56 | 0 8 | 6 1 | 1 7 | 24 1 | 3 22 | 11 38 | 11 11 | 18 37 | 17 56 | 4 47 |
| F 20 | 20 44 | 21 2 | 5 2 | 20 28 | 2 47 | 22 30 | 0 57 | 14 20 | 1 31 | 14 32 | 1 10 | 16 45 | 2 4 | 20 57 | 0 8 | 6 1 | 1 7 | 24 1 | 3 22 | 11 39 | 11 12 | 18 35 | 17 56 | 4 47 |
| S 21 | 20 33 | 24 51 | 5 13 | 20 40 | 2 32 | 22 34 | 0 54 | 14 32 | 1 31 | 14 35 | 1 10 | 16 45 | 2 4 | 20 57 | 0 8 | 6 1 | 1 7 | 24 1 | 3 22 | 11 39 | 11 13 | 18 32 | 17 56 | 4 47 |
| S 22 | 20 21 | 27 20 | 5 6 | 20 51 | 2 18 | 22 38 | 0 51 | 14 45 | 1 30 | 14 37 | 1 10 | 16 45 | 2 4 | 20 58 | 0 8 | 6 2 | 1 7 | 24 0 | 3 22 | 11 41 | 11 15 | 18 29 | 17 56 | 4 48 |
| M23 | 20 9 | 28 5 | 4 39 | 21 2 | 2 3 | 22 41 | 0 48 | 14 57 | 1 30 | 14 39 | 1 10 | 16 46 | 2 4 | 20 58 | 0 8 | 6 2 | 1 7 | 24 0 | 3 22 | 11 42 | 11 16 | 18 27 | 17 57 | 4 48 |
| T 24 | 19 57 | 26 52 | 3 53 | 21 12 | 1 48 | 22 43 | 0 45 | 15 9 | 1 29 | 14 41 | 1 11 | 16 46 | 2 3 | 20 58 | 0 8 | 6 3 | 1 7 | 24 0 | 3 23 | 11 43 | 11 17 | 18 24 | 17 57 | 4 48 |
| W25 | 19 44 | 23 41 | 2 50 | 21 21 | 1 33 | 22 44 | 0 43 | 15 21 | 1 29 | 14 43 | 1 11 | 16 46 | 2 3 | 20 59 | 0 8 | 6 3 | 1 7 | 24 0 | 3 23 | 11 45 | 11 18 | 18 21 | 17 57 | 4 49 |
| T 26 | 19 31 | 18 50 | 1 35 | 21 29 | 1 18 | 22 45 | 0 40 | 15 32 | 1 28 | 14 45 | 1 11 | 16 46 | 2 3 | 20 59 | 0 8 | 6 4 | 1 7 | 23 59 | 3 23 | 11 45 | 11 19 | 18 18 | 17 57 | 4 49 |
| F 27 | 19 18 | 12 48 | 0 13 | 21 36 | 1 3 | 22 46 | 0 37 | 15 44 | 1 28 | 14 47 | 1 11 | 16 46 | 2 3 | 21 0 | 0 8 | 6 4 | 1 7 | 23 59 | 3 23 | 11 46 | 11 20 | 18 16 | 17 57 | 4 49 |
| S 28 | 19 4 | 6 7 | 1s 8 | 21 41 | 0 49 | 22 45 | 0 34 | 15 55 | 1 27 | 14 49 | 1 11 | 16 46 | 2 2 | 21 0 | 0 8 | 6 5 | 1 7 | 23 59 | 3 23 | 11 46 | 11 21 | 18 13 | 17 57 | 4 50 |
| S 29 | 18 50 | 0s44 | 2 24 | 21 44 | 0 34 | 22 44 | 0 31 | 16 7 | 1 27 | 14 51 | 1 11 | 16 47 | 2 2 | 21 0 | 0 8 | 6 5 | 1 8 | 23 59 | 3 23 | 11 45 | 11 22 | 18 10 | 17 57 | 4 50 |
| M30 | 18 36 | 7 22 | 3 28 | 21 45 | 0 21 | 22 42 | 0 28 | 16 18 | 1 26 | 14 53 | 1 12 | 16 47 | 2 2 | 21 1 | 0 8 | 6 5 | 1 8 | 23 58 | 3 23 | 11 45 | 11 24 | 18 8 | 17 57 | 4 51 |
| T 31 | 18n21 | 13s27 | 4s19 | 21n44 | 0s 7 | 22n40 | 0s26 | 16n29 | 1s26 | 14n55 | 1s12 | 16s47 | 2n 2 | 21n 1 | 0s 8 | 6s 6 | 1s 8 | 23n58 | 3n23 | 11s44 | 11s25 | 18s 5 | 17n57 | 4s51 |

Julian Day Number = 2338866.5, Delta T = 17.72 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'02, Lahiri = 19°33'02Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## AUGUST 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 39 1 | 8♌45'16 | 7♏43 | 22♋31 | 11♋20 | 20♉57 | 14♉ 3 | 23♏48 | 4♊55 | 17°R11 | 27♋46 | 29°R18 | 0♓11 | 14♒ 0 | 16♊21 | W 1 |
| T 2 | 20 42 58 | 9°42'45 | 20°44 | 24°14 | 12°32 | 21°35 | 14°10 | 23°48 | 4°57 | 17♓10 | 27°47 | 29♒18 | 0° 7 | 14° 6 | 16°24 | T 2 |
| F 3 | 20 46 54 | 10°40'15 | 3♐26 | 26° 0 | 13°45 | 22°13 | 14°16 | 23°49 | 4°59 | 17° 9 | 27°49 | 29°17 | 0° 4 | 14°13 | 16°28 | F 3 |
| S 4 | 20 50 51 | 11°37'45 | 15°51 | 27°50 | 14°57 | 22°52 | 14°22 | 23°49 | 5° 1 | 17° 7 | 27°51 | 29°15 | 0° 1 | 14°19 | 16°32 | S 4 |
| S 5 | 20 54 47 | 12°35'16 | 28° 4 | 29°42 | 16° 9 | 23°30 | 14°27 | 23°50 | 5° 3 | 17° 6 | 27°52 | 29°12 | 29♒58 | 14°26 | 16°35 | S 5 |
| M 6 | 20 58 44 | 13°32'48 | 10♑ 7 | 1♌37 | 17°22 | 24° 7 | 14°33 | 23°51 | 5° 5 | 17° 5 | 27°54 | 29°10 | 29°55 | 14°33 | 16°39 | M 6 |
| T 7 | 21 2 41 | 14°30'21 | 22° 2 | 3°34 | 18°35 | 24°45 | 14°39 | 23°52 | 5° 6 | 17° 4 | 27°55 | 29° 8 | 29°52 | 14°39 | 16°42 | T 7 |
| W 8 | 21 6 37 | 15°27'56 | 3♒53 | 5°33 | 19°47 | 25°23 | 14°44 | 23°53 | 5° 8 | 17° 2 | 27°57 | 29° 6 | 29°48 | 14°46 | 16°46 | W 8 |
| T 9 | 21 10 34 | 16°25'31 | 15°42 | 7°33 | 21° 0 | 26° 0 | 14°49 | 23°54 | 5°10 | 17° 1 | 27°59 | 29° 5 | 29°45 | 14°53 | 16°49 | T 9 |
| F 10 | 21 14 30 | 17°23'08 | 27°30 | 9°34 | 22°12 | 26°37 | 14°54 | 23°55 | 5°11 | 17° 0 | 28° 0 | 29°D 5 | 29°42 | 14°59 | 16°52 | F 10 |
| S 11 | 21 18 27 | 18°20'45 | 9♓20 | 11°36 | 23°25 | 27°14 | 14°59 | 23°56 | 5°13 | 16°58 | 28° 2 | 29° 5 | 29°39 | 15° 6 | 16°56 | S 11 |
| S 12 | 21 22 23 | 19°18'24 | 21°15 | 13°38 | 24°38 | 27°51 | 15° 3 | 23°58 | 5°14 | 16°57 | 28° 3 | 29° 6 | 29°36 | 15°13 | 16°59 | S 12 |
| M13 | 21 26 20 | 20°16'05 | 3♈17 | 15°40 | 25°51 | 28°28 | 15° 8 | 23°59 | 5°16 | 16°55 | 28° 5 | 29° 6 | 29°32 | 15°19 | 17° 2 | M13 |
| T 14 | 21 30 16 | 21°13'47 | 15°29 | 17°42 | 27° 4 | 29° 4 | 15°12 | 24° 1 | 5°17 | 16°54 | 28° 7 | 29° 7 | 29°29 | 15°26 | 17° 5 | T 14 |
| W15 | 21 34 13 | 22°11'31 | 27°55 | 19°43 | 28°17 | 29°40 | 15°16 | 24° 2 | 5°19 | 16°52 | 28° 8 | 29° 8 | 29°26 | 15°33 | 17° 8 | W15 |
| T 16 | 21 38 10 | 23° 9'16 | 10♉38 | 21°44 | 29°30 | 0♊17 | 15°20 | 24° 4 | 5°20 | 16°51 | 28°10 | 29° 8 | 29°23 | 15°39 | 17°11 | T 16 |
| F 17 | 21 42 6 | 24° 7'03 | 23°41 | 23°44 | 0♌43 | 0°52 | 15°23 | 24° 6 | 5°21 | 16°49 | 28°11 | 29°R 8 | 29°20 | 15°46 | 17°14 | F 17 |
| S 18 | 21 46 3 | 25° 4'52 | 7♊ 8 | 25°43 | 1°56 | 1°28 | 15°27 | 24° 8 | 5°22 | 16°48 | 28°13 | 29° 8 | 29°17 | 15°53 | 17°17 | S 18 |
| S 19 | 21 49 59 | 26° 2'43 | 20°59 | 27°41 | 3° 9 | 2° 4 | 15°30 | 24°10 | 5°24 | 16°46 | 28°14 | 29° 8 | 29°13 | 15°59 | 17°19 | S 19 |
| M20 | 21 53 56 | 27° 0'36 | 5♋16 | 29°38 | 4°22 | 2°39 | 15°33 | 24°12 | 5°25 | 16°45 | 28°16 | 29° 8 | 29°10 | 16° 6 | 17°22 | M20 |
| T 21 | 21 57 52 | 27°58'30 | 19°55 | 1♍34 | 5°36 | 3°14 | 15°36 | 24°14 | 5°26 | 16°43 | 28°17 | 29° 8 | 29° 7 | 16°13 | 17°25 | T 21 |
| W22 | 22 1 49 | 28°56'26 | 4♌52 | 3°29 | 6°49 | 3°49 | 15°39 | 24°16 | 5°27 | 16°42 | 28°19 | 29°D 8 | 29° 4 | 16°19 | 17°27 | W22 |
| T 23 | 22 5 45 | 29°54'23 | 19°59 | 5°22 | 8° 2 | 4°24 | 15°42 | 24°19 | 5°28 | 16°40 | 28°20 | 29° 8 | 29° 1 | 16°26 | 17°30 | T 23 |
| F 24 | 22 9 42 | 0♍52'23 | 5♍ 8 | 7°14 | 9°16 | 4°58 | 15°44 | 24°21 | 5°29 | 16°39 | 28°22 | 29°R 8 | 28°58 | 16°32 | 17°32 | F 24 |
| S 25 | 22 13 39 | 1°50'23 | 20° 9 | 9° 5 | 10°29 | 5°32 | 15°46 | 24°24 | 5°30 | 16°37 | 28°23 | 29° 8 | 28°54 | 16°39 | 17°35 | S 25 |
| S 26 | 22 17 35 | 2°48'25 | 4♎55 | 10°55 | 11°43 | 6° 6 | 15°48 | 24°27 | 5°30 | 16°36 | 28°25 | 29° 7 | 28°51 | 16°46 | 17°37 | S 26 |
| M27 | 22 21 32 | 3°46'29 | 19°18 | 12°43 | 12°56 | 6°40 | 15°50 | 24°29 | 5°31 | 16°34 | 28°26 | 29° 7 | 28°48 | 16°52 | 17°39 | M27 |
| T 28 | 22 25 28 | 4°44'34 | 3♏15 | 14°31 | 14°10 | 7°13 | 15°51 | 24°32 | 5°32 | 16°32 | 28°28 | 29° 6 | 28°45 | 16°59 | 17°41 | T 28 |
| W29 | 22 29 25 | 5°42'41 | 16°46 | 16°16 | 15°23 | 7°47 | 15°53 | 24°35 | 5°33 | 16°31 | 28°29 | 29° 6 | 28°42 | 17° 6 | 17°43 | W29 |
| T 30 | 22 33 21 | 6°40'49 | 29°51 | 18° 1 | 16°37 | 8°20 | 15°54 | 24°38 | 5°33 | 16°29 | 28°30 | 29° 5 | 28°38 | 17°12 | 17°45 | T 30 |
| F 31 | 22 37 18 | 7♍38'58 | 12♐32 | 19♍45 | 17♌51 | 8♊52 | 15♉55 | 24♏41 | 5♊34 | 16♓27 | 28♋32 | 29°D 5 | 28♒35 | 17♒19 | 17♊47 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 18n 6 | 18s44 | 4s54 | 21n41 | 0n 6 | 22n37 | 0s23 | 16n39 | 1s25 | 14n57 | 1s12 | 16s48 | 2n 1 | 21n 1 | 0s 8 | 6s 6 | 1s 8 | 23n58 | 3n23 | 11s44 | 11s26 | 18s 2 | 17n57 | 4s51 |
| T 2 | 17 51 | 22 59 | 5 12 | 21 36 | 0 18 | 22 34 | 0 20 | 16 50 | 1 24 | 14 58 | 1 12 | 16 48 | 2 1 | 21 2 | 0 8 | 6 7 | 1 8 | 23 58 | 3 23 | 11 44 | 11 27 | 17 59 | 17 57 | 4 52 |
| F 3 | 17 35 | 26 1 | 5 15 | 21 28 | 0 29 | 22 29 | 0 17 | 17 0 | 1 24 | 15 0 | 1 12 | 16 48 | 2 1 | 21 2 | 0 8 | 6 7 | 1 8 | 23 57 | 3 23 | 11 45 | 11 28 | 17 57 | 17 57 | 4 52 |
| S 4 | 17 20 | 27 45 | 5 3 | 21 17 | 0 40 | 22 24 | 0 14 | 17 11 | 1 23 | 15 1 | 1 12 | 16 49 | 2 1 | 21 3 | 0 8 | 6 8 | 1 8 | 23 57 | 3 23 | 11 45 | 11 29 | 17 54 | 17 57 | 4 52 |
| S 5 | 17 4 | 28 5 | 4 37 | 21 4 | 0 50 | 22 19 | 0 11 | 17 21 | 1 22 | 15 3 | 1 13 | 16 49 | 2 0 | 21 3 | 0 8 | 6 9 | 1 8 | 23 57 | 3 24 | 11 46 | 11 30 | 17 51 | 17 57 | 4 53 |
| M 6 | 16 47 | 27 4 | 3 59 | 20 48 | 1 0 | 22 13 | 0 8 | 17 31 | 1 22 | 15 4 | 1 13 | 16 50 | 2 0 | 21 3 | 0 8 | 6 9 | 1 8 | 23 57 | 3 24 | 11 47 | 11 31 | 17 48 | 17 57 | 4 53 |
| T 7 | 16 31 | 24 49 | 3 11 | 20 29 | 1 8 | 22 6 | 0 6 | 17 41 | 1 21 | 15 6 | 1 13 | 16 50 | 2 0 | 21 3 | 0 8 | 6 10 | 1 8 | 23 56 | 3 24 | 11 48 | 11 32 | 17 45 | 17 57 | 4 54 |
| W 8 | 16 14 | 21 30 | 2 15 | 20 8 | 1 16 | 21 58 | 0 3 | 17 50 | 1 20 | 15 7 | 1 13 | 16 50 | 2 0 | 21 4 | 0 8 | 6 10 | 1 8 | 23 56 | 3 24 | 11 48 | 11 34 | 17 43 | 17 57 | 4 54 |
| T 9 | 15 56 | 17 20 | 1 14 | 19 44 | 1 22 | 21 50 | 0 0 | 18 0 | 1 20 | 15 9 | 1 13 | 16 51 | 1 59 | 21 4 | 0 8 | 6 11 | 1 8 | 23 56 | 3 24 | 11 49 | 11 35 | 17 40 | 17 57 | 4 54 |
| F 10 | 15 39 | 12 30 | 0 9 | 19 18 | 1 28 | 21 41 | 0n 3 | 18 9 | 1 19 | 15 10 | 1 13 | 16 52 | 1 59 | 21 4 | 0 8 | 6 11 | 1 8 | 23 56 | 3 24 | 11 49 | 11 36 | 17 37 | 17 56 | 4 55 |
| S 11 | 15 21 | 7 13 | 0n57 | 18 50 | 1 33 | 21 32 | 0 5 | 18 18 | 1 18 | 15 11 | 1 14 | 16 52 | 1 59 | 21 5 | 0 8 | 6 12 | 1 8 | 23 55 | 3 24 | 11 49 | 11 37 | 17 34 | 17 56 | 4 55 |
| S 12 | 15 3 | 1 38 | 2 0 | 18 19 | 1 37 | 21 22 | 0 8 | 18 28 | 1 17 | 15 12 | 1 14 | 16 53 | 1 59 | 21 5 | 0 8 | 6 12 | 1 8 | 23 55 | 3 24 | 11 49 | 11 38 | 17 32 | 17 56 | 4 56 |
| M13 | 14 45 | 4n 2 | 2 59 | 17 46 | 1 41 | 21 11 | 0 11 | 18 36 | 1 17 | 15 13 | 1 14 | 16 53 | 1 58 | 21 5 | 0 8 | 6 13 | 1 8 | 23 55 | 3 24 | 11 48 | 11 39 | 17 29 | 17 56 | 4 56 |
| T 14 | 14 27 | 9 39 | 3 50 | 17 11 | 1 43 | 21 0 | 0 14 | 18 45 | 1 16 | 15 14 | 1 14 | 16 54 | 1 58 | 21 5 | 0 8 | 6 14 | 1 8 | 23 55 | 3 24 | 11 48 | 11 40 | 17 26 | 17 56 | 4 57 |
| W15 | 14 8 | 14 59 | 4 32 | 16 35 | 1 45 | 20 48 | 0 16 | 18 54 | 1 15 | 15 15 | 1 14 | 16 55 | 1 58 | 21 6 | 0 8 | 6 14 | 1 8 | 23 54 | 3 24 | 11 48 | 11 41 | 17 23 | 17 56 | 4 57 |
| T 16 | 13 49 | 19 48 | 5 1 | 15 57 | 1 46 | 20 36 | 0 19 | 19 2 | 1 14 | 15 16 | 1 15 | 16 55 | 1 58 | 21 6 | 0 8 | 6 15 | 1 8 | 23 54 | 3 25 | 11 48 | 11 43 | 17 20 | 17 56 | 4 57 |
| F 17 | 13 30 | 23 50 | 5 16 | 15 18 | 1 46 | 20 23 | 0 21 | 19 10 | 1 13 | 15 17 | 1 15 | 16 56 | 1 57 | 21 6 | 0 8 | 6 15 | 1 8 | 23 54 | 3 25 | 11 48 | 11 44 | 17 18 | 17 56 | 4 58 |
| S 18 | 13 11 | 26 42 | 5 15 | 14 38 | 1 46 | 20 9 | 0 24 | 19 18 | 1 13 | 15 18 | 1 15 | 16 57 | 1 57 | 21 6 | 0 8 | 6 16 | 1 8 | 23 54 | 3 25 | 11 48 | 11 45 | 17 15 | 17 55 | 4 58 |
| S 19 | 12 52 | 28 5 | 4 55 | 13 56 | 1 45 | 19 55 | 0 26 | 19 26 | 1 12 | 15 19 | 1 15 | 16 57 | 1 57 | 21 7 | 0 8 | 6 17 | 1 8 | 23 54 | 3 25 | 11 48 | 11 46 | 17 12 | 17 55 | 4 59 |
| M20 | 12 32 | 27 39 | 4 17 | 13 14 | 1 43 | 19 40 | 0 29 | 19 34 | 1 11 | 15 20 | 1 15 | 16 58 | 1 57 | 21 7 | 0 8 | 6 17 | 1 8 | 23 53 | 3 25 | 11 48 | 11 47 | 17 9 | 17 55 | 4 59 |
| T 21 | 12 12 | 25 19 | 3 21 | 12 30 | 1 41 | 19 25 | 0 31 | 19 42 | 1 10 | 15 20 | 1 15 | 16 59 | 1 57 | 21 7 | 0 8 | 6 18 | 1 8 | 23 53 | 3 25 | 11 48 | 11 48 | 17 6 | 17 55 | 5 0 |
| W22 | 11 52 | 21 12 | 2 11 | 11 46 | 1 38 | 19 9 | 0 34 | 19 49 | 1 9 | 15 21 | 1 16 | 17 0 | 1 56 | 21 7 | 0 8 | 6 18 | 1 8 | 23 53 | 3 25 | 11 48 | 11 49 | 17 4 | 17 55 | 5 0 |
| T 23 | 11 31 | 15 39 | 0 51 | 11 2 | 1 35 | 18 52 | 0 36 | 19 57 | 1 8 | 15 21 | 1 16 | 17 0 | 1 56 | 21 7 | 0 8 | 6 19 | 1 8 | 23 53 | 3 25 | 11 48 | 11 50 | 17 1 | 17 54 | 5 1 |
| F 24 | 11 11 | 9 8 | 0s33 | 10 17 | 1 31 | 18 35 | 0 39 | 20 4 | 1 7 | 15 22 | 1 16 | 17 1 | 1 56 | 21 7 | 0 8 | 6 20 | 1 8 | 23 53 | 3 25 | 11 48 | 11 51 | 16 58 | 17 54 | 5 1 |
| S 25 | 10 50 | 2 9 | 1 54 | 9 31 | 1 27 | 18 18 | 0 41 | 20 11 | 1 6 | 15 22 | 1 16 | 17 2 | 1 56 | 21 8 | 0 8 | 6 20 | 1 8 | 23 52 | 3 26 | 11 48 | 11 53 | 16 55 | 17 54 | 5 1 |
| S 26 | 10 29 | 4s48 | 3 6 | 8 46 | 1 23 | 18 0 | 0 43 | 20 18 | 1 5 | 15 23 | 1 16 | 17 3 | 1 55 | 21 8 | 0 8 | 6 21 | 1 8 | 23 52 | 3 26 | 11 48 | 11 54 | 16 52 | 17 54 | 5 2 |
| M27 | 10 8 | 11 20 | 4 4 | 8 0 | 1 18 | 17 41 | 0 45 | 20 24 | 1 4 | 15 23 | 1 17 | 17 4 | 1 55 | 21 8 | 0 8 | 6 22 | 1 8 | 23 52 | 3 26 | 11 48 | 11 55 | 16 49 | 17 53 | 5 2 |
| T 28 | 9 47 | 17 6 | 4 46 | 7 14 | 1 13 | 17 22 | 0 48 | 20 31 | 1 3 | 15 23 | 1 17 | 17 5 | 1 55 | 21 8 | 0 8 | 6 22 | 1 8 | 23 52 | 3 26 | 11 48 | 11 56 | 16 46 | 17 53 | 5 3 |
| W29 | 9 26 | 21 49 | 5 10 | 6 28 | 1 7 | 17 2 | 0 50 | 20 37 | 1 2 | 15 24 | 1 17 | 17 6 | 1 55 | 21 8 | 0 8 | 6 23 | 1 8 | 23 52 | 3 26 | 11 49 | 11 57 | 16 44 | 17 53 | 5 3 |
| T 30 | 9 5 | 25 19 | 5 17 | 5 41 | 1 2 | 16 42 | 0 52 | 20 44 | 1 1 | 15 24 | 1 17 | 17 7 | 1 54 | 21 8 | 0 8 | 6 24 | 1 8 | 23 52 | 3 26 | 11 49 | 11 58 | 16 41 | 17 52 | 5 4 |
| F 31 | 8n43 | 27s27 | 5s 9 | 4n55 | 0n56 | 16n22 | 0n54 | 20n50 | 1s 0 | 15n24 | 1s17 | 17s 8 | 1n54 | 21n 8 | 0s 8 | 6s24 | 1s 8 | 23n51 | 3n26 | 11s49 | 11s59 | 16s38 | 17n52 | 5s 4 |

Julian Day Number = 2338897.5, Delta T = 17.68 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'06, Lahiri = 19°33'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## SEPTEMBER 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 41 14 | 8♍37'09 | 24♐55 | 21♍27 | 19♌ 4 | 9♊25 | 15♉56 | 24♏45 | 5♊34 | 16°R26 | 28♋33 | 29♒ 6 | 28♒32 | 17♒26 | 17♊49 | S 1 |
| S 2 | 22 45 11 | 9°35'22 | 7♑ 3 | 23° 8 | 20°18 | 9°57 | 15°56 | 24°48 | 5°35 | 16♓24 | 28°34 | 29° 7 | 28°29 | 17°32 | 17°51 | S 2 |
| M 3 | 22 49 8 | 10°33'36 | 19° 0 | 24°48 | 21°32 | 10°29 | 15°57 | 24°51 | 5°35 | 16°23 | 28°36 | 29° 8 | 28°26 | 17°39 | 17°53 | M 3 |
| T 4 | 22 53 4 | 11°31'51 | 0♒51 | 26°27 | 22°46 | 11° 1 | 15°R57 | 24°55 | 5°36 | 16°21 | 28°37 | 29° 9 | 28°23 | 17°46 | 17°55 | T 4 |
| W 5 | 22 57 1 | 12°30'08 | 12°39 | 28° 4 | 24° 0 | 11°32 | 15°57 | 24°58 | 5°36 | 16°19 | 28°38 | 29°10 | 28°19 | 17°52 | 17°56 | W 5 |
| T 6 | 23 0 57 | 13°28'27 | 24°27 | 29°40 | 25°14 | 12° 3 | 15°57 | 25° 2 | 5°36 | 16°18 | 28°40 | 29°R10 | 28°16 | 17°59 | 17°58 | T 6 |
| F 7 | 23 4 54 | 14°26'48 | 6♓19 | 1♎16 | 26°28 | 12°34 | 15°56 | 25° 6 | 5°36 | 16°16 | 28°41 | 29°10 | 28°13 | 18° 6 | 17°59 | F 7 |
| S 8 | 23 8 50 | 15°25'10 | 18°16 | 2°50 | 27°42 | 13° 5 | 15°56 | 25° 9 | 5°37 | 16°14 | 28°42 | 29° 9 | 28°10 | 18°12 | 18° 1 | S 8 |
| S 9 | 23 12 47 | 16°23'34 | 0♈20 | 4°23 | 28°56 | 13°35 | 15°55 | 25°13 | 5°37 | 16°13 | 28°43 | 29° 8 | 28° 7 | 18°19 | 18° 2 | S 9 |
| M10 | 23 16 43 | 17°22'00 | 12°34 | 5°55 | 0♍10 | 14° 5 | 15°54 | 25°17 | 5°37 | 16°11 | 28°44 | 29° 5 | 28° 3 | 18°25 | 18° 3 | M10 |
| T 11 | 23 20 40 | 18°20'28 | 24°59 | 7°26 | 1°24 | 14°35 | 15°53 | 25°21 | 5°R37 | 16° 9 | 28°46 | 29° 2 | 28° 0 | 18°32 | 18° 4 | T 11 |
| W12 | 23 24 37 | 19°18'59 | 7♉36 | 8°56 | 2°38 | 15° 4 | 15°51 | 25°25 | 5°37 | 16° 8 | 28°47 | 28°59 | 27°57 | 18°39 | 18° 6 | W12 |
| T 13 | 23 28 33 | 20°17'31 | 20°27 | 10°24 | 3°53 | 15°33 | 15°50 | 25°29 | 5°37 | 16° 6 | 28°48 | 28°57 | 27°54 | 18°45 | 18° 7 | T 13 |
| F 14 | 23 32 30 | 21°16'06 | 3♊35 | 11°52 | 5° 7 | 16° 2 | 15°48 | 25°34 | 5°36 | 16° 4 | 28°49 | 28°55 | 27°51 | 18°52 | 18° 8 | F 14 |
| S 15 | 23 36 26 | 22°14'42 | 16°59 | 13°18 | 6°21 | 16°30 | 15°46 | 25°38 | 5°36 | 16° 3 | 28°50 | 28°D54 | 27°48 | 18°59 | 18° 8 | S 15 |
| S 16 | 23 40 23 | 23°13'22 | 0♋43 | 14°44 | 7°35 | 16°58 | 15°44 | 25°42 | 5°36 | 16° 1 | 28°51 | 28°54 | 27°44 | 19° 5 | 18° 9 | S 16 |
| M17 | 23 44 19 | 24°12'03 | 14°46 | 16° 8 | 8°50 | 17°26 | 15°41 | 25°47 | 5°36 | 15°59 | 28°52 | 28°55 | 27°41 | 19°12 | 18°10 | M17 |
| T 18 | 23 48 16 | 25°10'47 | 29° 7 | 17°31 | 10° 4 | 17°53 | 15°39 | 25°51 | 5°35 | 15°58 | 28°53 | 28°56 | 27°38 | 19°19 | 18°11 | T 18 |
| W19 | 23 52 12 | 26° 9'33 | 13♌44 | 18°53 | 11°19 | 18°20 | 15°36 | 25°56 | 5°35 | 15°56 | 28°54 | 28°57 | 27°35 | 19°25 | 18°11 | W19 |
| T 20 | 23 56 9 | 27° 8'21 | 28°34 | 20°13 | 12°33 | 18°47 | 15°33 | 26° 1 | 5°35 | 15°55 | 28°55 | 28°R58 | 27°32 | 19°32 | 18°12 | T 20 |
| F 21 | 0 0 6 | 28° 7'11 | 13♍28 | 21°33 | 13°48 | 19°13 | 15°30 | 26° 5 | 5°34 | 15°53 | 28°56 | 28°57 | 27°29 | 19°39 | 18°12 | F 21 |
| S 22 | 0 4 2 | 29° 6'03 | 28°21 | 22°51 | 15° 2 | 19°39 | 15°26 | 26°10 | 5°33 | 15°51 | 28°57 | 28°55 | 27°25 | 19°45 | 18°12 | S 22 |
| S 23 | 0 7 59 | 0♎ 4'58 | 13♎ 3 | 24° 7 | 16°17 | 20° 4 | 15°23 | 26°15 | 5°33 | 15°50 | 28°58 | 28°52 | 27°22 | 19°52 | 18°13 | S 23 |
| M24 | 0 11 55 | 1° 3'54 | 27°28 | 25°22 | 17°31 | 20°29 | 15°19 | 26°20 | 5°32 | 15°48 | 28°59 | 28°47 | 27°19 | 19°59 | 18°13 | M24 |
| T 25 | 0 15 52 | 2° 2'52 | 11♏30 | 26°36 | 18°46 | 20°54 | 15°15 | 26°25 | 5°31 | 15°47 | 29° 0 | 28°42 | 27°16 | 20° 5 | 18°13 | T 25 |
| W26 | 0 19 48 | 3° 1'52 | 25° 6 | 27°48 | 20° 1 | 21°18 | 15°11 | 26°30 | 5°31 | 15°45 | 29° 1 | 28°37 | 27°13 | 20°12 | 18°R13 | W26 |
| T 27 | 0 23 45 | 4° 0'54 | 8♐15 | 28°58 | 21°15 | 21°42 | 15° 7 | 26°35 | 5°30 | 15°43 | 29° 2 | 28°33 | 27° 9 | 20°18 | 18°13 | T 27 |
| F 28 | 0 27 41 | 4°59'58 | 21° 1 | 0♏ 6 | 22°30 | 22° 5 | 15° 2 | 26°41 | 5°29 | 15°42 | 29° 3 | 28°30 | 27° 6 | 20°25 | 18°13 | F 28 |
| S 29 | 0 31 38 | 5°59'03 | 3♑25 | 1°13 | 23°45 | 22°28 | 14°57 | 26°46 | 5°28 | 15°40 | 29° 4 | 28°D29 | 27° 3 | 20°32 | 18°13 | S 29 |
| S 30 | 0 35 35 | 6♎58'11 | 15♑32 | 2♏17 | 25♍ 0 | 22♊50 | 14♉53 | 26♏51 | 5♊27 | 15♓39 | 29♋ 4 | 28♒30 | 27♒ 0 | 20♒38 | 18♊12 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n21 | 28s 9 | 4s46 | 4n 9 | 0n49 | 16n 1 | 0n56 | 20n56 | 0s59 | 15n24 | 1s17 | 17s 9 | 1n54 | 21n 9 | 0s 8 | 6s25 | 1s 8 | 23n51 | 3n26 | 11s49 | 12s 0 | 16s35 | 17n52 | 5s 5 |
| S 2 | 7 59 | 27 28 | 4 11 | 3 23 | 0 43 | 15 39 | 0 58 | 21 2 | 0 58 | 15 24 | 1 18 | 17 10 | 1 54 | 21 9 | 0 8 | 6 25 | 1 8 | 23 51 | 3 27 | 11 48 | 12 1 | 16 32 | 17 51 | 5 5 |
| M 3 | 7 37 | 25 31 | 3 25 | 2 37 | 0 36 | 15 17 | 1 0 | 21 7 | 0 57 | 15 24 | 1 18 | 17 11 | 1 53 | 21 9 | 0 8 | 6 26 | 1 8 | 23 51 | 3 27 | 11 48 | 12 2 | 16 29 | 17 51 | 5 6 |
| T 4 | 7 15 | 22 27 | 2 31 | 1 52 | 0 29 | 14 55 | 1 1 | 21 13 | 0 56 | 15 24 | 1 18 | 17 12 | 1 53 | 21 9 | 0 8 | 6 27 | 1 8 | 23 51 | 3 27 | 11 47 | 12 4 | 16 26 | 17 51 | 5 6 |
| W 5 | 6 53 | 18 29 | 1 30 | 1 7 | 0 22 | 14 32 | 1 3 | 21 18 | 0 55 | 15 24 | 1 18 | 17 13 | 1 53 | 21 9 | 0 8 | 6 27 | 1 8 | 23 51 | 3 27 | 11 47 | 12 5 | 16 24 | 17 50 | 5 7 |
| T 6 | 6 30 | 13 48 | 0 26 | 0 22 | 0 15 | 14 9 | 1 5 | 21 24 | 0 53 | 15 23 | 1 18 | 17 14 | 1 53 | 21 9 | 0 8 | 6 28 | 1 8 | 23 51 | 3 27 | 11 47 | 12 6 | 16 21 | 17 50 | 5 7 |
| F 7 | 6 8 | 8 36 | 0n39 | 0s23 | 0 8 | 13 46 | 1 7 | 21 29 | 0 52 | 15 23 | 1 18 | 17 15 | 1 53 | 21 9 | 0 8 | 6 29 | 1 8 | 23 50 | 3 27 | 11 47 | 12 7 | 16 18 | 17 50 | 5 8 |
| S 8 | 5 45 | 3 4 | 1 44 | 1 7 | 0 0 | 13 22 | 1 8 | 21 34 | 0 51 | 15 23 | 1 19 | 17 16 | 1 52 | 21 9 | 0 8 | 6 29 | 1 8 | 23 50 | 3 27 | 11 47 | 12 8 | 16 15 | 17 49 | 5 8 |
| S 9 | 5 23 | 2n38 | 2 44 | 1 51 | 0s 7 | 12 57 | 1 10 | 21 39 | 0 50 | 15 22 | 1 19 | 17 17 | 1 52 | 21 9 | 0 8 | 6 30 | 1 8 | 23 50 | 3 27 | 11 48 | 12 9 | 16 12 | 17 49 | 5 9 |
| M10 | 5 0 | 8 18 | 3 37 | 2 35 | 0 15 | 12 33 | 1 11 | 21 44 | 0 48 | 15 22 | 1 19 | 17 18 | 1 52 | 21 9 | 0 8 | 6 31 | 1 8 | 23 50 | 3 28 | 11 49 | 12 10 | 16 9 | 17 49 | 5 9 |
| T 11 | 4 37 | 13 44 | 4 21 | 3 18 | 0 22 | 12 8 | 1 13 | 21 48 | 0 47 | 15 21 | 1 19 | 17 20 | 1 52 | 21 9 | 0 8 | 6 31 | 1 8 | 23 50 | 3 28 | 11 50 | 12 11 | 16 6 | 17 48 | 5 10 |
| W12 | 4 14 | 18 41 | 4 53 | 4 0 | 0 30 | 11 42 | 1 14 | 21 53 | 0 46 | 15 21 | 1 19 | 17 21 | 1 52 | 21 9 | 0 8 | 6 32 | 1 8 | 23 50 | 3 28 | 11 51 | 12 12 | 16 3 | 17 48 | 5 10 |
| T 13 | 3 51 | 22 54 | 5 12 | 4 42 | 0 38 | 11 16 | 1 15 | 21 57 | 0 45 | 15 20 | 1 19 | 17 22 | 1 51 | 21 9 | 0 8 | 6 33 | 1 9 | 23 50 | 3 28 | 11 52 | 12 13 | 16 1 | 17 47 | 5 11 |
| F 14 | 3 28 | 26 2 | 5 14 | 5 24 | 0 46 | 10 50 | 1 16 | 22 2 | 0 43 | 15 20 | 1 20 | 17 23 | 1 51 | 21 9 | 0 8 | 6 33 | 1 9 | 23 50 | 3 28 | 11 52 | 12 15 | 15 58 | 17 47 | 5 11 |
| S 15 | 3 5 | 27 49 | 4 59 | 6 5 | 0 53 | 10 24 | 1 18 | 22 6 | 0 42 | 15 19 | 1 20 | 17 24 | 1 51 | 21 9 | 0 8 | 6 34 | 1 9 | 23 49 | 3 28 | 11 53 | 12 16 | 15 55 | 17 47 | 5 12 |
| S 16 | 2 42 | 27 57 | 4 28 | 6 45 | 1 1 | 9 57 | 1 19 | 22 10 | 0 41 | 15 18 | 1 20 | 17 26 | 1 51 | 21 9 | 0 8 | 6 35 | 1 9 | 23 49 | 3 28 | 11 53 | 12 17 | 15 52 | 17 46 | 5 12 |
| M17 | 2 18 | 26 18 | 3 40 | 7 25 | 1 9 | 9 30 | 1 20 | 22 14 | 0 39 | 15 17 | 1 20 | 17 27 | 1 50 | 21 9 | 0 8 | 6 35 | 1 9 | 23 49 | 3 29 | 11 52 | 12 18 | 15 49 | 17 46 | 5 13 |
| T 18 | 1 55 | 22 56 | 2 37 | 8 4 | 1 17 | 9 3 | 1 21 | 22 18 | 0 38 | 15 16 | 1 20 | 17 28 | 1 50 | 21 9 | 0 8 | 6 36 | 1 9 | 23 49 | 3 29 | 11 52 | 12 19 | 15 46 | 17 45 | 5 13 |
| W19 | 1 32 | 18 3 | 1 23 | 8 42 | 1 24 | 8 36 | 1 22 | 22 22 | 0 36 | 15 15 | 1 20 | 17 29 | 1 50 | 21 9 | 0 8 | 6 37 | 1 9 | 23 49 | 3 29 | 11 51 | 12 20 | 15 43 | 17 45 | 5 14 |
| T 20 | 1 8 | 12 2 | 0 2 | 9 20 | 1 32 | 8 8 | 1 23 | 22 26 | 0 35 | 15 14 | 1 21 | 17 31 | 1 50 | 21 9 | 0 8 | 6 37 | 1 9 | 23 49 | 3 29 | 11 51 | 12 21 | 15 40 | 17 44 | 5 14 |
| F 21 | 0 45 | 5 18 | 1s19 | 9 57 | 1 40 | 7 40 | 1 23 | 22 29 | 0 33 | 15 13 | 1 21 | 17 32 | 1 50 | 21 9 | 0 8 | 6 38 | 1 9 | 23 49 | 3 29 | 11 51 | 12 22 | 15 37 | 17 44 | 5 15 |
| S 22 | 0 21 | 1s42 | 2 34 | 10 33 | 1 47 | 7 12 | 1 24 | 22 33 | 0 32 | 15 12 | 1 21 | 17 33 | 1 50 | 21 8 | 0 8 | 6 38 | 1 9 | 23 49 | 3 29 | 11 52 | 12 23 | 15 34 | 17 43 | 5 15 |
| S 23 | 0s 2 | 8 31 | 3 38 | 11 9 | 1 54 | 6 43 | 1 25 | 22 36 | 0 30 | 15 11 | 1 21 | 17 35 | 1 49 | 21 8 | 0 8 | 6 39 | 1 9 | 23 49 | 3 29 | 11 53 | 12 24 | 15 31 | 17 43 | 5 16 |
| M24 | 0 25 | 14 44 | 4 27 | 11 43 | 2 2 | 6 15 | 1 25 | 22 40 | 0 29 | 15 10 | 1 21 | 17 36 | 1 49 | 21 8 | 0 8 | 6 40 | 1 9 | 23 49 | 3 30 | 11 55 | 12 26 | 15 28 | 17 42 | 5 16 |
| T 25 | 0 49 | 20 2 | 4 58 | 12 17 | 2 9 | 5 46 | 1 26 | 22 43 | 0 27 | 15 9 | 1 21 | 17 37 | 1 49 | 21 8 | 0 8 | 6 40 | 1 9 | 23 49 | 3 30 | 11 57 | 12 27 | 15 25 | 17 42 | 5 17 |
| W26 | 1 12 | 24 6 | 5 11 | 12 49 | 2 16 | 5 17 | 1 26 | 22 46 | 0 26 | 15 7 | 1 21 | 17 39 | 1 49 | 21 8 | 0 8 | 6 41 | 1 9 | 23 49 | 3 30 | 11 59 | 12 28 | 15 23 | 17 41 | 5 17 |
| T 27 | 1 36 | 26 47 | 5 8 | 13 21 | 2 22 | 4 48 | 1 27 | 22 49 | 0 24 | 15 6 | 1 22 | 17 40 | 1 49 | 21 8 | 0 8 | 6 41 | 1 9 | 23 49 | 3 30 | 12 0 | 12 29 | 15 20 | 17 41 | 5 18 |
| F 28 | 1 59 | 27 58 | 4 48 | 13 51 | 2 29 | 4 19 | 1 27 | 22 52 | 0 22 | 15 4 | 1 22 | 17 41 | 1 48 | 21 8 | 0 8 | 6 42 | 1 9 | 23 49 | 3 30 | 12 1 | 12 30 | 15 17 | 17 40 | 5 18 |
| S 29 | 2 23 | 27 42 | 4 16 | 14 20 | 2 35 | 3 49 | 1 27 | 22 55 | 0 21 | 15 3 | 1 22 | 17 43 | 1 48 | 21 7 | 0 8 | 6 43 | 1 9 | 23 49 | 3 30 | 12 1 | 12 31 | 15 14 | 17 40 | 5 19 |
| S 30 | 2s46 | 26s 6 | 3s33 | 14s48 | 2s41 | 3n20 | 1n27 | 22n58 | 0s19 | 15n 1 | 1s22 | 17s44 | 1n48 | 21n 7 | 0s 8 | 6s43 | 1s 9 | 23n49 | 3n30 | 12s 1 | 12s32 | 15s11 | 17n39 | 5s19 |

Julian Day Number = 2338928.5, Delta T = 17.64 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'10, Lahiri = 19°33'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## OCTOBER 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 39 31 | 7♎57'20 | 27♉28 | 3♏19 | 26♍14 | 23♊12 | 14°R48 | 26♏57 | 5°R26 | 15°R37 | 29♋ 5 | 28♒31 | 26♒57 | 20♒45 | 18°R12 | M 1 |
| T 2 | 0 43 28 | 8°56'30 | 9♒17 | 4°18 | 27°29 | 23°34 | 14♉42 | 27° 2 | 5♊25 | 15♓36 | 29° 6 | 28°33 | 26°54 | 20°52 | 18♊12 | T 2 |
| W 3 | 0 47 24 | 9°55'43 | 21° 4 | 5°15 | 28°44 | 23°55 | 14°37 | 27° 8 | 5°24 | 15°34 | 29° 7 | 28°34 | 26°50 | 20°58 | 18°11 | W 3 |
| T 4 | 0 51 21 | 10°54'58 | 2♓54 | 6° 8 | 29°59 | 24°15 | 14°32 | 27°13 | 5°23 | 15°33 | 29° 7 | 28°R34 | 26°47 | 21° 5 | 18°10 | T 4 |
| F 5 | 0 55 17 | 11°54'14 | 14°51 | 6°59 | 1♎14 | 24°35 | 14°26 | 27°19 | 5°22 | 15°31 | 29° 8 | 28°33 | 26°44 | 21°12 | 18°10 | F 5 |
| S 6 | 0 59 14 | 12°53'32 | 26°57 | 7°45 | 2°29 | 24°54 | 14°20 | 27°24 | 5°21 | 15°30 | 29° 9 | 28°29 | 26°41 | 21°18 | 18° 9 | S 6 |
| S 7 | 1 3 10 | 13°52'52 | 9♈15 | 8°28 | 3°44 | 25°13 | 14°14 | 27°30 | 5°19 | 15°29 | 29° 9 | 28°23 | 26°38 | 21°25 | 18° 8 | S 7 |
| M 8 | 1 7 7 | 14°52'14 | 21°45 | 9° 7 | 4°59 | 25°32 | 14° 8 | 27°36 | 5°18 | 15°27 | 29°10 | 28°16 | 26°34 | 21°32 | 18° 7 | M 8 |
| T 9 | 1 11 3 | 15°51'39 | 4♉28 | 9°41 | 6°14 | 25°49 | 14° 2 | 27°42 | 5°17 | 15°26 | 29°10 | 28° 8 | 26°31 | 21°38 | 18° 6 | T 9 |
| W10 | 1 15 0 | 16°51'05 | 17°25 | 10° 9 | 7°29 | 26° 7 | 13°55 | 27°48 | 5°15 | 15°25 | 29°11 | 27°59 | 26°28 | 21°45 | 18° 5 | W10 |
| T 11 | 1 18 57 | 17°50'34 | 0♊34 | 10°32 | 8°44 | 26°23 | 13°49 | 27°54 | 5°14 | 15°23 | 29°11 | 27°51 | 26°25 | 21°51 | 18° 4 | T 11 |
| F 12 | 1 22 53 | 18°50'05 | 13°55 | 10°49 | 9°59 | 26°39 | 13°42 | 28° 0 | 5°12 | 15°22 | 29°12 | 27°44 | 26°22 | 21°58 | 18° 3 | F 12 |
| S 13 | 1 26 50 | 19°49'39 | 27°28 | 11° 0 | 11°14 | 26°55 | 13°35 | 28° 6 | 5°11 | 15°21 | 29°12 | 27°40 | 26°19 | 22° 5 | 18° 2 | S 13 |
| S 14 | 1 30 46 | 20°49'14 | 11♋13 | 11°R 3 | 12°29 | 27°10 | 13°28 | 28°12 | 5° 9 | 15°19 | 29°13 | 27°37 | 26°15 | 22°11 | 18° 0 | S 14 |
| M15 | 1 34 43 | 21°48'52 | 25° 8 | 10°58 | 13°44 | 27°24 | 13°21 | 28°18 | 5° 8 | 15°18 | 29°13 | 27°D37 | 26°12 | 22°18 | 17°59 | M15 |
| T 16 | 1 38 39 | 22°48'33 | 9♌15 | 10°45 | 14°59 | 27°38 | 13°14 | 28°24 | 5° 6 | 15°17 | 29°14 | 27°38 | 26° 9 | 22°25 | 17°57 | T 16 |
| W17 | 1 42 36 | 23°48'15 | 23°32 | 10°23 | 16°14 | 27°51 | 13° 7 | 28°30 | 5° 4 | 15°16 | 29°14 | 27°R38 | 26° 6 | 22°31 | 17°56 | W17 |
| T 18 | 1 46 32 | 24°48'00 | 7♍57 | 9°53 | 17°29 | 28° 3 | 13° 0 | 28°37 | 5° 3 | 15°14 | 29°14 | 27°38 | 26° 3 | 22°38 | 17°54 | T 18 |
| F 19 | 1 50 29 | 25°47'47 | 22°28 | 9°14 | 18°44 | 28°15 | 12°52 | 28°43 | 5° 1 | 15°13 | 29°15 | 27°36 | 26° 0 | 22°45 | 17°52 | F 19 |
| S 20 | 1 54 26 | 26°47'36 | 6♎58 | 8°26 | 20° 0 | 28°25 | 12°45 | 28°49 | 4°59 | 15°12 | 29°15 | 27°31 | 25°56 | 22°51 | 17°51 | S 20 |
| S 21 | 1 58 22 | 27°47'28 | 21°22 | 7°29 | 21°15 | 28°36 | 12°37 | 28°56 | 4°57 | 15°11 | 29°15 | 27°23 | 25°53 | 22°58 | 17°49 | S 21 |
| M22 | 2 2 19 | 28°47'21 | 5♏35 | 6°26 | 22°30 | 28°45 | 12°29 | 29° 2 | 4°55 | 15°10 | 29°16 | 27°13 | 25°50 | 23° 5 | 17°47 | M22 |
| T 23 | 2 6 15 | 29°47'16 | 19°30 | 5°16 | 23°45 | 28°54 | 12°22 | 29° 9 | 4°53 | 15° 9 | 29°16 | 27° 3 | 25°47 | 23°11 | 17°45 | T 23 |
| W24 | 2 10 12 | 0♏47'13 | 3♐ 3 | 4° 2 | 25° 1 | 29° 2 | 12°14 | 29°15 | 4°51 | 15° 8 | 29°16 | 26°52 | 25°44 | 23°18 | 17°43 | W24 |
| T 25 | 2 14 8 | 1°47'12 | 16°12 | 2°45 | 26°16 | 29° 9 | 12° 6 | 29°22 | 4°49 | 15° 7 | 29°16 | 26°43 | 25°40 | 23°24 | 17°41 | T 25 |
| F 26 | 2 18 5 | 2°47'13 | 28°59 | 1°28 | 27°31 | 29°16 | 11°58 | 29°28 | 4°47 | 15° 6 | 29°16 | 26°35 | 25°37 | 23°31 | 17°38 | F 26 |
| S 27 | 2 22 1 | 3°47'15 | 11♑24 | 0°13 | 28°46 | 29°21 | 11°50 | 29°35 | 4°45 | 15° 5 | 29°16 | 26°31 | 25°34 | 23°38 | 17°36 | S 27 |
| S 28 | 2 25 58 | 4°47'19 | 23°32 | 29♎ 2 | 0♏ 2 | 29°26 | 11°42 | 29°41 | 4°43 | 15° 4 | 29°16 | 26°28 | 25°31 | 23°44 | 17°34 | S 28 |
| M29 | 2 29 55 | 5°47'25 | 5♒28 | 27°59 | 1°17 | 29°30 | 11°34 | 29°48 | 4°41 | 15° 3 | 29°16 | 26°D27 | 25°28 | 23°51 | 17°32 | M29 |
| T 30 | 2 33 51 | 6°47'32 | 17°17 | 27° 4 | 2°32 | 29°34 | 11°26 | 29°55 | 4°39 | 15° 2 | 29°17 | 26°28 | 25°25 | 23°58 | 17°29 | T 30 |
| W31 | 2 37 48 | 7♏47'41 | 29♒ 5 | 26♎19 | 3♏48 | 29♊36 | 11♉17 | 0♐ 2 | 4♊37 | 15♓ 1 | 29°R17 | 26°R28 | 25♒21 | 24♒ 4 | 17♊27 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3s10 | 23s20 | 2s41 | 15s15 | 2s47 | 2n50 | 1n27 | 23n 1 | 0s17 | 15n 0 | 1s22 | 17s46 | 1n48 | 21n 7 | 0s 8 | 6s44 | 1s 8 | 23n49 | 3n31 | 12s 1 | 12s33 | 15s 8 | 17n39 | 5s20 |
| T 2 | 3 33 | 19 37 | 1 43 | 15 41 | 2 52 | 2 20 | 1 28 | 23 4 | 0 16 | 14 58 | 1 22 | 17 47 | 1 48 | 21 7 | 0 8 | 6 44 | 1 8 | 23 49 | 3 31 | 12 0 | 12 34 | 15 5 | 17 38 | 5 20 |
| W 3 | 3 56 | 15 9 | 0 41 | 16 5 | 2 57 | 1 51 | 1 27 | 23 7 | 0 14 | 14 57 | 1 22 | 17 48 | 1 48 | 21 7 | 0 8 | 6 45 | 1 8 | 23 49 | 3 31 | 12 0 | 12 35 | 15 2 | 17 38 | 5 21 |
| T 4 | 4 20 | 10 5 | 0n24 | 16 27 | 3 2 | 1 21 | 1 27 | 23 9 | 0 12 | 14 55 | 1 22 | 17 50 | 1 47 | 21 7 | 0 8 | 6 46 | 1 8 | 23 49 | 3 31 | 12 0 | 12 36 | 14 59 | 17 37 | 5 21 |
| F 5 | 4 43 | 4 38 | 1 27 | 16 48 | 3 6 | 0 51 | 1 27 | 23 12 | 0 10 | 14 53 | 1 22 | 17 51 | 1 47 | 21 6 | 0 8 | 6 46 | 1 8 | 23 49 | 3 31 | 12 0 | 12 37 | 14 56 | 17 37 | 5 22 |
| S 6 | 5 6 | 1n 3 | 2 28 | 17 7 | 3 10 | 0 21 | 1 27 | 23 15 | 0 8 | 14 51 | 1 22 | 17 53 | 1 47 | 21 6 | 0 8 | 6 47 | 1 8 | 23 49 | 3 31 | 12 1 | 12 39 | 14 53 | 17 36 | 5 22 |
| S 7 | 5 29 | 6 46 | 3 22 | 17 24 | 3 13 | 0s 9 | 1 27 | 23 17 | 0 6 | 14 50 | 1 22 | 17 54 | 1 47 | 21 6 | 0 8 | 6 47 | 1 8 | 23 49 | 3 32 | 12 3 | 12 40 | 14 50 | 17 35 | 5 23 |
| M 8 | 5 52 | 12 19 | 4 7 | 17 38 | 3 15 | 0 40 | 1 26 | 23 20 | 0 5 | 14 48 | 1 23 | 17 56 | 1 47 | 21 6 | 0 8 | 6 48 | 1 8 | 23 49 | 3 32 | 12 6 | 12 41 | 14 47 | 17 35 | 5 23 |
| T 9 | 6 15 | 17 27 | 4 42 | 17 51 | 3 17 | 1 10 | 1 26 | 23 22 | 0 3 | 14 46 | 1 23 | 17 57 | 1 47 | 21 5 | 0 8 | 6 48 | 1 8 | 23 49 | 3 32 | 12 9 | 12 42 | 14 44 | 17 34 | 5 24 |
| W10 | 6 38 | 21 53 | 5 2 | 18 1 | 3 18 | 1 40 | 1 25 | 23 25 | 0 1 | 14 44 | 1 23 | 17 59 | 1 46 | 21 5 | 0 8 | 6 49 | 1 8 | 23 49 | 3 32 | 12 12 | 12 43 | 14 41 | 17 34 | 5 24 |
| T 11 | 7 1 | 25 18 | 5 7 | 18 8 | 3 18 | 2 10 | 1 25 | 23 27 | 0n 1 | 14 42 | 1 23 | 18 0 | 1 46 | 21 5 | 0 8 | 6 49 | 1 8 | 23 49 | 3 32 | 12 15 | 12 44 | 14 38 | 17 33 | 5 25 |
| F 12 | 7 23 | 27 23 | 4 55 | 18 13 | 3 17 | 2 40 | 1 24 | 23 30 | 0 3 | 14 40 | 1 23 | 18 1 | 1 46 | 21 5 | 0 8 | 6 50 | 1 8 | 23 49 | 3 32 | 12 17 | 12 45 | 14 35 | 17 33 | 5 25 |
| S 13 | 7 46 | 27 54 | 4 27 | 18 14 | 3 15 | 3 10 | 1 24 | 23 32 | 0 6 | 14 38 | 1 23 | 18 3 | 1 46 | 21 4 | 0 8 | 6 50 | 1 8 | 23 49 | 3 33 | 12 18 | 12 46 | 14 32 | 17 32 | 5 26 |
| S 14 | 8 9 | 26 43 | 3 43 | 18 12 | 3 12 | 3 40 | 1 23 | 23 35 | 0 8 | 14 36 | 1 23 | 18 4 | 1 46 | 21 4 | 0 8 | 6 51 | 1 8 | 23 49 | 3 33 | 12 19 | 12 47 | 14 29 | 17 31 | 5 26 |
| M15 | 8 31 | 23 51 | 2 45 | 18 6 | 3 7 | 4 10 | 1 22 | 23 37 | 0 10 | 14 33 | 1 23 | 18 6 | 1 46 | 21 4 | 0 8 | 6 51 | 1 8 | 23 49 | 3 33 | 12 19 | 12 48 | 14 26 | 17 31 | 5 27 |
| T 16 | 8 53 | 19 32 | 1 37 | 17 56 | 3 1 | 4 40 | 1 21 | 23 40 | 0 12 | 14 31 | 1 23 | 18 7 | 1 45 | 21 4 | 0 8 | 6 52 | 1 8 | 23 49 | 3 33 | 12 19 | 12 49 | 14 23 | 17 30 | 5 27 |
| W17 | 9 15 | 14 3 | 0 22 | 17 42 | 2 53 | 5 10 | 1 20 | 23 42 | 0 14 | 14 29 | 1 23 | 18 9 | 1 45 | 21 3 | 0 8 | 6 52 | 1 8 | 23 49 | 3 33 | 12 19 | 12 50 | 14 20 | 17 30 | 5 28 |
| T 18 | 9 37 | 7 45 | 0s55 | 17 24 | 2 44 | 5 39 | 1 19 | 23 44 | 0 16 | 14 27 | 1 23 | 18 10 | 1 45 | 21 3 | 0 8 | 6 53 | 1 8 | 23 49 | 3 33 | 12 19 | 12 52 | 14 17 | 17 29 | 5 28 |
| F 19 | 9 59 | 1 1 | 2 9 | 17 1 | 2 33 | 6 9 | 1 18 | 23 47 | 0 19 | 14 25 | 1 23 | 18 12 | 1 45 | 21 3 | 0 8 | 6 53 | 1 8 | 23 49 | 3 33 | 12 20 | 12 53 | 14 14 | 17 28 | 5 29 |
| S 20 | 10 21 | 5s44 | 3 14 | 16 33 | 2 20 | 6 38 | 1 17 | 23 49 | 0 21 | 14 22 | 1 23 | 18 13 | 1 45 | 21 2 | 0 8 | 6 53 | 1 8 | 23 49 | 3 34 | 12 22 | 12 54 | 14 11 | 17 28 | 5 29 |
| S 21 | 10 42 | 12 9 | 4 6 | 16 1 | 2 5 | 7 8 | 1 16 | 23 52 | 0 23 | 14 20 | 1 23 | 18 15 | 1 45 | 21 2 | 0 8 | 6 54 | 1 8 | 23 50 | 3 34 | 12 24 | 12 55 | 14 8 | 17 27 | 5 29 |
| M22 | 11 4 | 17 50 | 4 43 | 15 24 | 1 49 | 7 37 | 1 15 | 23 54 | 0 26 | 14 18 | 1 23 | 18 17 | 1 45 | 21 2 | 0 8 | 6 54 | 1 8 | 23 50 | 3 34 | 12 27 | 12 56 | 14 5 | 17 27 | 5 30 |
| T 23 | 11 25 | 22 27 | 5 1 | 14 44 | 1 31 | 8 6 | 1 14 | 23 57 | 0 28 | 14 15 | 1 23 | 18 18 | 1 45 | 21 1 | 0 8 | 6 55 | 1 8 | 23 50 | 3 34 | 12 31 | 12 57 | 14 2 | 17 26 | 5 30 |
| W24 | 11 46 | 25 44 | 5 2 | 14 1 | 1 12 | 8 35 | 1 12 | 23 59 | 0 30 | 14 13 | 1 23 | 18 20 | 1 44 | 21 1 | 0 8 | 6 55 | 1 8 | 23 50 | 3 34 | 12 35 | 12 58 | 13 59 | 17 25 | 5 31 |
| T 25 | 12 7 | 27 31 | 4 46 | 13 16 | 0 52 | 9 3 | 1 11 | 24 2 | 0 33 | 14 11 | 1 23 | 18 21 | 1 44 | 21 1 | 0 8 | 6 55 | 1 8 | 23 50 | 3 34 | 12 38 | 12 59 | 13 56 | 17 25 | 5 31 |
| F 26 | 12 28 | 27 46 | 4 17 | 12 30 | 0 31 | 9 32 | 1 9 | 24 4 | 0 35 | 14 8 | 1 23 | 18 23 | 1 44 | 21 0 | 0 8 | 6 56 | 1 8 | 23 50 | 3 35 | 12 40 | 13 0 | 13 53 | 17 24 | 5 32 |
| S 27 | 12 48 | 26 35 | 3 36 | 11 44 | 0 11 | 10 0 | 1 8 | 24 7 | 0 38 | 14 6 | 1 23 | 18 24 | 1 44 | 21 0 | 0 8 | 6 56 | 1 8 | 23 50 | 3 35 | 12 42 | 13 1 | 13 50 | 17 23 | 5 32 |
| S 28 | 13 8 | 24 9 | 2 46 | 11 0 | 0n10 | 10 28 | 1 6 | 24 9 | 0 40 | 14 3 | 1 23 | 18 26 | 1 44 | 21 0 | 0 8 | 6 56 | 1 8 | 23 50 | 3 35 | 12 43 | 13 2 | 13 47 | 17 23 | 5 33 |
| M29 | 13 29 | 20 42 | 1 49 | 10 19 | 0 29 | 10 56 | 1 5 | 24 12 | 0 43 | 14 1 | 1 23 | 18 27 | 1 44 | 20 59 | 0 8 | 6 57 | 1 8 | 23 51 | 3 35 | 12 43 | 13 3 | 13 44 | 17 22 | 5 33 |
| T 30 | 13 48 | 16 27 | 0 49 | 9 42 | 0 48 | 11 23 | 1 3 | 24 15 | 0 46 | 13 59 | 1 23 | 18 29 | 1 44 | 20 59 | 0 8 | 6 57 | 1 8 | 23 51 | 3 35 | 12 43 | 13 4 | 13 41 | 17 22 | 5 33 |
| W31 | 14s 8 | 11s36 | 0n14 | 9s10 | 1n 5 | 11s50 | 1n 2 | 24n17 | 0n48 | 13n56 | 1s23 | 18s30 | 1n44 | 20n58 | 0s 8 | 6s57 | 1s 8 | 23n51 | 3n35 | 12s43 | 13s 5 | 13s38 | 17n21 | 5s34 |

Julian Day Number = 2338958.5, Delta T = 17.61 sec
Ecliptic obliquity = 23°28'54, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'15, Lahiri = 19°33'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## NOVEMBER 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 41 44 | 8♏47'51 | 10♓57 | 25°R45 | 5♏ 3 | 29♊38 | 11°R 9 | 0♐ 8 | 4°R35 | 15°R 0 | 29°R16 | 26°R27 | 25♒18 | 24♒11 | 17°R24 | T 1 |
| F 2 | 2 45 41 | 9°48'03 | 22°58 | 25♎23 | 6°18 | 29°39 | 11♉ 1 | 0°15 | 4♊32 | 15♓ 0 | 29♋16 | 26♒24 | 25°15 | 24°18 | 17♊21 | F 2 |
| S 3 | 2 49 37 | 10°48'16 | 5♈11 | 25°D12 | 7°34 | 29°R39 | 10°53 | 0°22 | 4°30 | 14°59 | 29°16 | 26°18 | 25°12 | 24°24 | 17°19 | S 3 |
| S 4 | 2 53 34 | 11°48'31 | 17°40 | 25°13 | 8°49 | 29°38 | 10°45 | 0°29 | 4°28 | 14°58 | 29°16 | 26°10 | 25° 9 | 24°31 | 17°16 | S 4 |
| M 5 | 2 57 30 | 12°48'47 | 0♉27 | 25°24 | 10° 4 | 29°36 | 10°37 | 0°36 | 4°26 | 14°57 | 29°16 | 25°59 | 25° 6 | 24°38 | 17°13 | M 5 |
| T 6 | 3 1 27 | 13°49'06 | 13°31 | 25°46 | 11°20 | 29°33 | 10°28 | 0°43 | 4°23 | 14°57 | 29°16 | 25°46 | 25° 2 | 24°44 | 17°10 | T 6 |
| W 7 | 3 5 24 | 14°49'26 | 26°51 | 26°18 | 12°35 | 29°30 | 10°20 | 0°49 | 4°21 | 14°56 | 29°16 | 25°33 | 24°59 | 24°51 | 17° 7 | W 7 |
| T 8 | 3 9 20 | 15°49'48 | 10♊26 | 26°57 | 13°50 | 29°26 | 10°12 | 0°56 | 4°19 | 14°55 | 29°16 | 25°21 | 24°56 | 24°58 | 17° 4 | T 8 |
| F 9 | 3 13 17 | 16°50'11 | 24°11 | 27°45 | 15° 6 | 29°21 | 10° 4 | 1° 3 | 4°16 | 14°55 | 29°15 | 25°11 | 24°53 | 25° 4 | 17° 1 | F 9 |
| S 10 | 3 17 13 | 17°50'37 | 8♋ 3 | 28°39 | 16°21 | 29°15 | 9°56 | 1°10 | 4°14 | 14°54 | 29°15 | 25° 3 | 24°50 | 25°11 | 16°58 | S 10 |
| S 11 | 3 21 10 | 18°51'04 | 22° 1 | 29°39 | 17°36 | 29° 8 | 9°48 | 1°17 | 4°12 | 14°54 | 29°15 | 24°59 | 24°46 | 25°17 | 16°55 | S 11 |
| M12 | 3 25 6 | 19°51'34 | 6♌ 3 | 0♏44 | 18°52 | 29° 0 | 9°40 | 1°24 | 4° 9 | 14°53 | 29°14 | 24°57 | 24°43 | 25°24 | 16°52 | M12 |
| T 13 | 3 29 3 | 20°52'05 | 20° 6 | 1°54 | 20° 7 | 28°51 | 9°32 | 1°31 | 4° 7 | 14°53 | 29°14 | 24°56 | 24°40 | 25°31 | 16°49 | T 13 |
| W14 | 3 32 59 | 21°52'37 | 4♍12 | 3° 7 | 21°23 | 28°42 | 9°24 | 1°38 | 4° 4 | 14°52 | 29°14 | 24°56 | 24°37 | 25°37 | 16°46 | W14 |
| T 15 | 3 36 56 | 22°53'12 | 18°18 | 4°24 | 22°38 | 28°31 | 9°17 | 1°45 | 4° 2 | 14°52 | 29°13 | 24°55 | 24°34 | 25°44 | 16°42 | T 15 |
| F 16 | 3 40 53 | 23°53'49 | 2♎24 | 5°43 | 23°54 | 28°20 | 9° 9 | 1°52 | 3°59 | 14°52 | 29°13 | 24°51 | 24°31 | 25°51 | 16°39 | F 16 |
| S 17 | 3 44 49 | 24°54'27 | 16°27 | 7° 5 | 25° 9 | 28° 8 | 9° 1 | 2° 0 | 3°57 | 14°51 | 29°13 | 24°45 | 24°27 | 25°57 | 16°36 | S 17 |
| S 18 | 3 48 46 | 25°55'07 | 0♏25 | 8°29 | 26°24 | 27°55 | 8°54 | 2° 7 | 3°54 | 14°51 | 29°12 | 24°36 | 24°24 | 26° 4 | 16°32 | S 18 |
| M19 | 3 52 42 | 26°55'48 | 14°14 | 9°55 | 27°40 | 27°41 | 8°47 | 2°14 | 3°52 | 14°51 | 29°12 | 24°24 | 24°21 | 26°11 | 16°29 | M19 |
| T 20 | 3 56 39 | 27°56'31 | 27°49 | 11°22 | 28°55 | 27°26 | 8°39 | 2°21 | 3°49 | 14°51 | 29°11 | 24°10 | 24°18 | 26°17 | 16°25 | T 20 |
| W21 | 4 0 35 | 28°57'15 | 11♐ 8 | 12°50 | 0♐11 | 27°11 | 8°32 | 2°28 | 3°47 | 14°50 | 29°11 | 23°57 | 24°15 | 26°24 | 16°22 | W21 |
| T 22 | 4 4 32 | 29°58'01 | 24° 8 | 14°19 | 1°26 | 26°55 | 8°25 | 2°35 | 3°44 | 14°50 | 29°10 | 23°45 | 24°12 | 26°31 | 16°18 | T 22 |
| F 23 | 4 8 28 | 0♐58'48 | 6♑49 | 15°49 | 2°42 | 26°38 | 8°18 | 2°42 | 3°42 | 14°50 | 29° 9 | 23°35 | 24° 8 | 26°37 | 16°15 | F 23 |
| S 24 | 4 12 25 | 1°59'36 | 19°12 | 17°19 | 3°57 | 26°20 | 8°11 | 2°49 | 3°39 | 14°50 | 29° 9 | 23°28 | 24° 5 | 26°44 | 16°11 | S 24 |
| S 25 | 4 16 22 | 3° 0'25 | 1♒20 | 18°50 | 5°13 | 26° 2 | 8° 4 | 2°56 | 3°37 | 14°50 | 29° 8 | 23°24 | 24° 2 | 26°50 | 16° 8 | S 25 |
| M26 | 4 20 18 | 4° 1'15 | 13°15 | 20°22 | 6°28 | 25°43 | 7°58 | 3° 3 | 3°34 | 14°D50 | 29° 7 | 23°22 | 23°59 | 26°57 | 16° 4 | M26 |
| T 27 | 4 24 15 | 5° 2'05 | 25° 4 | 21°54 | 7°44 | 25°24 | 7°51 | 3°11 | 3°32 | 14°50 | 29° 7 | 23°D22 | 23°56 | 27° 4 | 16° 0 | T 27 |
| W28 | 4 28 11 | 6° 2'57 | 6♓52 | 23°26 | 8°59 | 25° 4 | 7°45 | 3°18 | 3°29 | 14°50 | 29° 6 | 23°R22 | 23°52 | 27°10 | 15°57 | W28 |
| T 29 | 4 32 8 | 7° 3'50 | 18°43 | 24°58 | 10°14 | 24°43 | 7°39 | 3°25 | 3°27 | 14°50 | 29° 5 | 23°21 | 23°49 | 27°17 | 15°53 | T 29 |
| F 30 | 4 36 4 | 8♐ 4'43 | 0♈45 | 26♏31 | 11♐30 | 24♊22 | 7♉33 | 3♐32 | 3♊24 | 14♓50 | 29♋ 5 | 23♒19 | 23♒46 | 27♒24 | 15♊49 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s27 | 6s18 | 1n16 | 8s43 | 1n20 | 12s17 | 1n 0 | 24n20 | 0n51 | 13n54 | 1s23 | 18s32 | 1n44 | 20n58 | 0s 8 | 6s58 | 1s 8 | 23n51 | 3n36 | 12s43 | 13s 7 | 13s35 | 17n20 | 5s34 |
| F 2 | 14 47 | 0 43 | 2 16 | 8 23 | 1 34 | 12 44 | 0 58 | 24 23 | 0 54 | 13 51 | 1 22 | 18 33 | 1 43 | 20 58 | 0 8 | 6 58 | 1 8 | 23 51 | 3 36 | 12 44 | 13 8 | 13 32 | 17 20 | 5 35 |
| S 3 | 15 6 | 4n58 | 3 10 | 8 8 | 1 45 | 13 10 | 0 56 | 24 25 | 0 57 | 13 49 | 1 22 | 18 35 | 1 43 | 20 57 | 0 8 | 6 58 | 1 8 | 23 51 | 3 36 | 12 46 | 13 9 | 13 29 | 17 19 | 5 35 |
| S 4 | 15 24 | 10 35 | 3 56 | 7 59 | 1 55 | 13 36 | 0 54 | 24 28 | 0 59 | 13 46 | 1 22 | 18 36 | 1 43 | 20 57 | 0 8 | 6 59 | 1 8 | 23 52 | 3 36 | 12 49 | 13 10 | 13 26 | 17 18 | 5 35 |
| M 5 | 15 43 | 15 53 | 4 32 | 7 56 | 2 3 | 14 2 | 0 53 | 24 31 | 1 2 | 13 44 | 1 22 | 18 38 | 1 43 | 20 56 | 0 8 | 6 59 | 1 8 | 23 52 | 3 36 | 12 53 | 13 11 | 13 23 | 17 18 | 5 36 |
| T 6 | 16 1 | 20 35 | 4 54 | 7 58 | 2 10 | 14 27 | 0 51 | 24 34 | 1 5 | 13 41 | 1 22 | 18 39 | 1 43 | 20 56 | 0 8 | 6 59 | 1 8 | 23 52 | 3 36 | 12 57 | 13 12 | 13 19 | 17 17 | 5 36 |
| W 7 | 16 19 | 24 21 | 5 0 | 8 5 | 2 14 | 14 52 | 0 49 | 24 37 | 1 8 | 13 39 | 1 22 | 18 41 | 1 43 | 20 56 | 0 8 | 6 59 | 1 8 | 23 52 | 3 37 | 13 2 | 13 13 | 13 16 | 17 17 | 5 36 |
| T 8 | 16 36 | 26 50 | 4 50 | 8 16 | 2 17 | 15 17 | 0 47 | 24 39 | 1 11 | 13 37 | 1 22 | 18 42 | 1 43 | 20 55 | 0 8 | 6 59 | 1 8 | 23 52 | 3 37 | 13 6 | 13 14 | 13 13 | 17 16 | 5 37 |
| F 9 | 16 54 | 27 44 | 4 23 | 8 31 | 2 19 | 15 41 | 0 45 | 24 42 | 1 14 | 13 34 | 1 22 | 18 44 | 1 43 | 20 55 | 0 8 | 7 0 | 1 8 | 23 53 | 3 37 | 13 9 | 13 15 | 13 10 | 17 15 | 5 37 |
| S 10 | 17 11 | 26 54 | 3 41 | 8 50 | 2 20 | 16 5 | 0 43 | 24 45 | 1 16 | 13 32 | 1 22 | 18 45 | 1 43 | 20 54 | 0 8 | 7 0 | 1 8 | 23 53 | 3 37 | 13 12 | 13 16 | 13 7 | 17 15 | 5 37 |
| S 11 | 17 28 | 24 23 | 2 45 | 9 11 | 2 20 | 16 28 | 0 40 | 24 48 | 1 19 | 13 29 | 1 21 | 18 47 | 1 43 | 20 54 | 0 8 | 7 0 | 1 8 | 23 53 | 3 37 | 13 13 | 13 17 | 13 4 | 17 14 | 5 38 |
| M12 | 17 44 | 20 23 | 1 38 | 9 35 | 2 18 | 16 51 | 0 38 | 24 51 | 1 22 | 13 27 | 1 21 | 18 48 | 1 43 | 20 53 | 0 8 | 7 0 | 1 8 | 23 53 | 3 37 | 13 14 | 13 18 | 13 1 | 17 13 | 5 38 |
| T 13 | 18 0 | 15 13 | 0 26 | 10 2 | 2 16 | 17 13 | 0 36 | 24 54 | 1 25 | 13 25 | 1 21 | 18 50 | 1 42 | 20 53 | 0 8 | 7 0 | 1 8 | 23 53 | 3 38 | 13 14 | 13 19 | 12 58 | 17 13 | 5 38 |
| W14 | 18 16 | 9 14 | 0s49 | 10 30 | 2 13 | 17 35 | 0 34 | 24 57 | 1 28 | 13 22 | 1 21 | 18 51 | 1 42 | 20 52 | 0 8 | 7 1 | 1 8 | 23 54 | 3 38 | 13 14 | 13 20 | 12 55 | 17 12 | 5 39 |
| T 15 | 18 32 | 2 48 | 2 0 | 10 59 | 2 9 | 17 57 | 0 32 | 25 0 | 1 31 | 13 20 | 1 21 | 18 53 | 1 42 | 20 52 | 0 8 | 7 1 | 1 8 | 23 54 | 3 38 | 13 14 | 13 21 | 12 52 | 17 12 | 5 39 |
| F 16 | 18 47 | 3s46 | 3 4 | 11 29 | 2 5 | 18 18 | 0 30 | 25 3 | 1 34 | 13 18 | 1 21 | 18 54 | 1 42 | 20 52 | 0 8 | 7 1 | 1 8 | 23 54 | 3 38 | 13 16 | 13 23 | 12 49 | 17 11 | 5 39 |
| S 17 | 19 2 | 10 7 | 3 56 | 12 1 | 2 0 | 18 39 | 0 27 | 25 5 | 1 37 | 13 16 | 1 20 | 18 56 | 1 42 | 20 51 | 0 8 | 7 1 | 1 8 | 23 54 | 3 38 | 13 18 | 13 24 | 12 46 | 17 10 | 5 40 |
| S 18 | 19 16 | 15 55 | 4 34 | 12 33 | 1 55 | 18 59 | 0 25 | 25 8 | 1 40 | 13 13 | 1 20 | 18 57 | 1 42 | 20 51 | 0 8 | 7 1 | 1 8 | 23 55 | 3 38 | 13 21 | 13 25 | 12 43 | 17 10 | 5 40 |
| M19 | 19 30 | 20 50 | 4 55 | 13 5 | 1 49 | 19 18 | 0 23 | 25 11 | 1 43 | 13 11 | 1 20 | 18 59 | 1 42 | 20 50 | 0 8 | 7 1 | 1 8 | 23 55 | 3 38 | 13 25 | 13 26 | 12 40 | 17 9 | 5 40 |
| T 20 | 19 44 | 24 34 | 4 59 | 13 37 | 1 44 | 19 37 | 0 20 | 25 14 | 1 46 | 13 9 | 1 20 | 19 0 | 1 42 | 20 50 | 0 8 | 7 1 | 1 8 | 23 55 | 3 39 | 13 29 | 13 27 | 12 36 | 17 8 | 5 40 |
| W21 | 19 58 | 26 53 | 4 47 | 14 10 | 1 37 | 19 56 | 0 18 | 25 16 | 1 49 | 13 7 | 1 20 | 19 1 | 1 42 | 20 49 | 0 8 | 7 1 | 1 7 | 23 55 | 3 39 | 13 34 | 13 28 | 12 33 | 17 8 | 5 41 |
| T 22 | 20 11 | 27 40 | 4 20 | 14 43 | 1 31 | 20 14 | 0 16 | 25 19 | 1 52 | 13 5 | 1 19 | 19 3 | 1 42 | 20 49 | 0 7 | 7 1 | 1 7 | 23 56 | 3 39 | 13 38 | 13 29 | 12 30 | 17 7 | 5 41 |
| F 23 | 20 23 | 26 58 | 3 40 | 15 15 | 1 24 | 20 31 | 0 13 | 25 21 | 1 55 | 13 3 | 1 19 | 19 4 | 1 42 | 20 48 | 0 7 | 7 1 | 1 7 | 23 56 | 3 39 | 13 41 | 13 30 | 12 27 | 17 7 | 5 41 |
| S 24 | 20 36 | 24 55 | 2 50 | 15 47 | 1 18 | 20 48 | 0 11 | 25 24 | 1 58 | 13 1 | 1 19 | 19 6 | 1 42 | 20 48 | 0 7 | 7 1 | 1 7 | 23 56 | 3 39 | 13 43 | 13 31 | 12 24 | 17 6 | 5 41 |
| S 25 | 20 48 | 21 45 | 1 54 | 16 19 | 1 11 | 21 4 | 0 9 | 25 26 | 2 1 | 12 59 | 1 19 | 19 7 | 1 42 | 20 47 | 0 7 | 7 1 | 1 7 | 23 57 | 3 39 | 13 45 | 13 32 | 12 21 | 17 6 | 5 42 |
| M26 | 20 59 | 17 43 | 0 53 | 16 51 | 1 4 | 21 19 | 0 6 | 25 29 | 2 4 | 12 57 | 1 19 | 19 9 | 1 42 | 20 47 | 0 7 | 7 1 | 1 7 | 23 57 | 3 40 | 13 45 | 13 33 | 12 18 | 17 5 | 5 42 |
| T 27 | 21 11 | 13 3 | 0n 9 | 17 21 | 0 57 | 21 34 | 0 4 | 25 31 | 2 7 | 12 55 | 1 18 | 19 10 | 1 42 | 20 46 | 0 7 | 7 1 | 1 7 | 23 57 | 3 40 | 13 45 | 13 34 | 12 15 | 17 4 | 5 42 |
| W28 | 21 21 | 7 54 | 1 11 | 17 52 | 0 50 | 21 49 | 0 1 | 25 33 | 2 10 | 12 53 | 1 18 | 19 11 | 1 42 | 20 46 | 0 7 | 7 1 | 1 7 | 23 57 | 3 40 | 13 45 | 13 35 | 12 12 | 17 4 | 5 42 |
| T 29 | 21 32 | 2 28 | 2 10 | 18 21 | 0 43 | 22 2 | 0s 1 | 25 35 | 2 12 | 12 51 | 1 18 | 19 13 | 1 42 | 20 45 | 0 7 | 7 1 | 1 7 | 23 58 | 3 40 | 13 46 | 13 36 | 12 9 | 17 3 | 5 42 |
| F 30 | 21s42 | 3n 7 | 3n 5 | 18s50 | 0n35 | 22s15 | 0s 3 | 25n37 | 2n15 | 12n50 | 1s18 | 19s14 | 1n42 | 20n45 | 0s 7 | 7s 1 | 1s 7 | 23n58 | 3n40 | 13s46 | 13s37 | 12s 5 | 17n 3 | 5s43 |

Julian Day Number = 2338989.5, Delta T = 17.57 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'19, Lahiri = 19°33'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1691
# geocentric

## DECEMBER 1691 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 40 1 | 9♐ 5'37 | 13♈ 1 | 28♏ 3 | 12♐45 | 24°R 0 | 7°R27 | 3♐39 | 3°R21 | 14♓50 | 29°R 4 | 23°R14 | 23♒43 | 27♒30 | 15°R46 | S 1 |
| S 2 | 4 43 57 | 10° 6'32 | 25°35 | 29°36 | 14° 1 | 23♊39 | 7♉21 | 3°46 | 3♊19 | 14°51 | 29♋ 3 | 23♒ 7 | 23°40 | 27°37 | 15♊42 | S 2 |
| M 3 | 4 47 54 | 11° 7'28 | 8♉32 | 1♐ 9 | 15°16 | 23°16 | 7°16 | 3°53 | 3°16 | 14°51 | 29° 2 | 22°57 | 23°37 | 27°44 | 15°38 | M 3 |
| T 4 | 4 51 51 | 12° 8'24 | 21°51 | 2°42 | 16°32 | 22°54 | 7°10 | 4° 0 | 3°14 | 14°51 | 29° 1 | 22°45 | 23°33 | 27°50 | 15°34 | T 4 |
| W 5 | 4 55 47 | 13° 9'22 | 5♊31 | 4°15 | 17°47 | 22°31 | 7° 5 | 4° 7 | 3°11 | 14°51 | 29° 1 | 22°33 | 23°30 | 27°57 | 15°31 | W 5 |
| T 6 | 4 59 44 | 14°10'20 | 19°30 | 5°49 | 19° 3 | 22° 8 | 7° 0 | 4°14 | 3° 9 | 14°52 | 29° 0 | 22°22 | 23°27 | 28° 4 | 15°27 | T 6 |
| F 7 | 5 3 40 | 15°11'19 | 3♋42 | 7°22 | 20°18 | 21°44 | 6°55 | 4°21 | 3° 7 | 14°52 | 28°59 | 22°13 | 23°24 | 28°10 | 15°23 | F 7 |
| S 8 | 5 7 37 | 16°12'20 | 18° 2 | 8°55 | 21°33 | 21°21 | 6°50 | 4°28 | 3° 4 | 14°52 | 28°58 | 22° 6 | 23°21 | 28°17 | 15°19 | S 8 |
| S 9 | 5 11 33 | 17°13'21 | 2♌25 | 10°29 | 22°49 | 20°57 | 6°46 | 4°35 | 3° 2 | 14°53 | 28°57 | 22° 1 | 23°18 | 28°24 | 15°16 | S 9 |
| M10 | 5 15 30 | 18°14'23 | 16°46 | 12° 2 | 24° 4 | 20°34 | 6°42 | 4°42 | 2°59 | 14°53 | 28°56 | 22°D 0 | 23°14 | 28°30 | 15°12 | M10 |
| T 11 | 5 19 27 | 19°15'26 | 1♍ 2 | 13°36 | 25°20 | 20°10 | 6°37 | 4°49 | 2°57 | 14°54 | 28°55 | 22° 0 | 23°11 | 28°37 | 15° 8 | T 11 |
| W12 | 5 23 23 | 20°16'30 | 15°10 | 15°10 | 26°35 | 19°47 | 6°33 | 4°56 | 2°54 | 14°54 | 28°54 | 22°R 1 | 23° 8 | 28°43 | 15° 4 | W12 |
| T 13 | 5 27 20 | 21°17'35 | 29°10 | 16°44 | 27°51 | 19°23 | 6°30 | 5° 3 | 2°52 | 14°55 | 28°53 | 22° 0 | 23° 5 | 28°50 | 15° 0 | T 13 |
| F 14 | 5 31 16 | 22°18'40 | 13♎ 1 | 18°18 | 29° 6 | 19° 0 | 6°26 | 5°10 | 2°50 | 14°56 | 28°52 | 21°58 | 23° 2 | 28°57 | 14°57 | F 14 |
| S 15 | 5 35 13 | 23°19'47 | 26°44 | 19°52 | 0♏21 | 18°37 | 6°23 | 5°17 | 2°47 | 14°56 | 28°51 | 21°54 | 22°58 | 29° 3 | 14°53 | S 15 |
| S 16 | 5 39 9 | 24°20'55 | 10♏17 | 21°26 | 1°37 | 18°15 | 6°20 | 5°24 | 2°45 | 14°57 | 28°50 | 21°47 | 22°55 | 29°10 | 14°49 | S 16 |
| M17 | 5 43 6 | 25°22'03 | 23°39 | 23° 1 | 2°52 | 17°52 | 6°17 | 5°31 | 2°43 | 14°58 | 28°49 | 21°38 | 22°52 | 29°17 | 14°46 | M17 |
| T 18 | 5 47 2 | 26°23'12 | 6♐49 | 24°36 | 4° 8 | 17°30 | 6°14 | 5°37 | 2°40 | 14°58 | 28°48 | 21°28 | 22°49 | 29°23 | 14°42 | T 18 |
| W19 | 5 50 59 | 27°24'21 | 19°47 | 26°11 | 5°23 | 17° 8 | 6°11 | 5°44 | 2°38 | 14°59 | 28°47 | 21°17 | 22°46 | 29°30 | 14°38 | W19 |
| T 20 | 5 54 56 | 28°25'31 | 2♑30 | 27°46 | 6°39 | 16°47 | 6° 9 | 5°51 | 2°36 | 15° 0 | 28°46 | 21° 8 | 22°43 | 29°37 | 14°35 | T 20 |
| F 21 | 5 58 52 | 29°26'41 | 14°58 | 29°21 | 7°54 | 16°27 | 6° 7 | 5°58 | 2°34 | 15° 1 | 28°44 | 21° 0 | 22°39 | 29°43 | 14°31 | F 21 |
| S 22 | 6 2 49 | 0♑27'52 | 27°13 | 0♑57 | 9° 9 | 16° 6 | 6° 5 | 6° 4 | 2°32 | 15° 2 | 28°43 | 20°55 | 22°36 | 29°50 | 14°27 | S 22 |
| S 23 | 6 6 45 | 1°29'02 | 9♒16 | 2°33 | 10°25 | 15°47 | 6° 3 | 6°11 | 2°30 | 15° 3 | 28°42 | 20°52 | 22°33 | 29°57 | 14°24 | S 23 |
| M24 | 6 10 42 | 2°30'13 | 21° 9 | 4° 9 | 11°40 | 15°28 | 6° 1 | 6°18 | 2°27 | 15° 4 | 28°41 | 20°D51 | 22°30 | 0♓ 3 | 14°20 | M24 |
| T 25 | 6 14 38 | 3°31'23 | 2♓57 | 5°45 | 12°56 | 15° 9 | 6° 0 | 6°24 | 2°25 | 15° 4 | 28°40 | 20°52 | 22°27 | 0°10 | 14°17 | T 25 |
| W26 | 6 18 35 | 4°32'34 | 14°44 | 7°22 | 14°11 | 14°52 | 5°59 | 6°31 | 2°23 | 15° 5 | 28°39 | 20°53 | 22°24 | 0°17 | 14°13 | W26 |
| T 27 | 6 22 31 | 5°33'44 | 26°34 | 8°59 | 15°26 | 14°35 | 5°58 | 6°37 | 2°21 | 15° 7 | 28°37 | 20°54 | 22°20 | 0°23 | 14°10 | T 27 |
| F 28 | 6 26 28 | 6°34'54 | 8♈34 | 10°37 | 16°42 | 14°18 | 5°57 | 6°44 | 2°19 | 15° 8 | 28°36 | 20°R55 | 22°17 | 0°30 | 14° 6 | F 28 |
| S 29 | 6 30 25 | 7°36'04 | 20°48 | 12°14 | 17°57 | 14° 3 | 5°57 | 6°50 | 2°17 | 15° 9 | 28°35 | 20°54 | 22°14 | 0°36 | 14° 3 | S 29 |
| S 30 | 6 34 21 | 8°37'13 | 3♉21 | 13°52 | 19°13 | 13°48 | 5°56 | 6°57 | 2°15 | 15°10 | 28°34 | 20°51 | 22°11 | 0°43 | 14° 0 | S 30 |
| M31 | 6 38 18 | 9♑38'23 | 16♉17 | 15♑31 | 20♑28 | 13♊34 | 5°D56 | 7♐ 3 | 2♊14 | 15♓11 | 28♋32 | 20♒46 | 22♒ 8 | 0♓50 | 13♊56 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s51 | 8n42 | 3n52 | 19s18 | 0n28 | 22s28 | 0s 6 | 25n38 | 2n18 | 12n48 | 1s17 | 19s15 | 1n41 | 20n45 | 0s 7 | 7s 1 | 1s 7 | 23n58 | 3n40 | 13s48 | 13s38 | 12s 2 | 17n 2 | 5s43 |
| S 2 | 22 0 | 14 4 | 4 28 | 19 45 | 0 21 | 22 39 | 0 8 | 25 40 | 2 21 | 12 46 | 1 17 | 19 17 | 1 41 | 20 44 | 0 7 | 7 1 | 1 7 | 23 59 | 3 40 | 13 50 | 13 39 | 11 59 | 17 2 | 5 43 |
| M 3 | 22 9 | 18 59 | 4 53 | 20 12 | 0 14 | 22 50 | 0 11 | 25 42 | 2 23 | 12 45 | 1 17 | 19 18 | 1 41 | 20 44 | 0 7 | 7 1 | 1 7 | 23 59 | 3 41 | 13 53 | 13 40 | 11 56 | 17 1 | 5 43 |
| T 4 | 22 17 | 23 7 | 5 2 | 20 37 | 0 7 | 23 1 | 0 13 | 25 43 | 2 26 | 12 43 | 1 17 | 19 19 | 1 41 | 20 43 | 0 7 | 7 0 | 1 7 | 23 59 | 3 41 | 13 57 | 13 41 | 11 53 | 17 1 | 5 43 |
| W 5 | 22 25 | 26 5 | 4 54 | 21 2 | 0 0 | 23 10 | 0 15 | 25 44 | 2 28 | 12 42 | 1 16 | 19 21 | 1 41 | 20 43 | 0 7 | 7 0 | 1 7 | 24 0 | 3 41 | 14 1 | 13 43 | 11 50 | 17 0 | 5 43 |
| T 6 | 22 32 | 27 32 | 4 29 | 21 25 | 0s 7 | 23 19 | 0 18 | 25 45 | 2 31 | 12 41 | 1 16 | 19 22 | 1 41 | 20 42 | 0 7 | 7 0 | 1 7 | 24 0 | 3 41 | 14 5 | 13 44 | 11 47 | 17 0 | 5 44 |
| F 7 | 22 39 | 27 13 | 3 47 | 21 48 | 0 13 | 23 28 | 0 20 | 25 46 | 2 33 | 12 39 | 1 16 | 19 23 | 1 41 | 20 42 | 0 7 | 7 0 | 1 7 | 24 0 | 3 41 | 14 8 | 13 45 | 11 44 | 16 59 | 5 44 |
| S 8 | 22 46 | 25 5 | 2 50 | 22 10 | 0 20 | 23 35 | 0 22 | 25 47 | 2 35 | 12 38 | 1 16 | 19 25 | 1 41 | 20 41 | 0 7 | 7 0 | 1 7 | 24 1 | 3 41 | 14 10 | 13 46 | 11 41 | 16 59 | 5 44 |
| S 9 | 22 52 | 21 19 | 1 42 | 22 30 | 0 27 | 23 42 | 0 25 | 25 47 | 2 37 | 12 37 | 1 15 | 19 26 | 1 41 | 20 41 | 0 7 | 7 0 | 1 7 | 24 1 | 3 41 | 14 12 | 13 47 | 11 37 | 16 58 | 5 44 |
| M10 | 22 58 | 16 17 | 0 28 | 22 49 | 0 33 | 23 48 | 0 27 | 25 48 | 2 40 | 12 36 | 1 15 | 19 27 | 1 41 | 20 40 | 0 7 | 6 59 | 1 7 | 24 1 | 3 42 | 14 12 | 13 48 | 11 34 | 16 58 | 5 44 |
| T 11 | 23 3 | 10 23 | 0s48 | 23 8 | 0 40 | 23 53 | 0 29 | 25 48 | 2 42 | 12 34 | 1 15 | 19 29 | 1 41 | 20 40 | 0 7 | 6 59 | 1 7 | 24 2 | 3 42 | 14 12 | 13 49 | 11 31 | 16 57 | 5 44 |
| W12 | 23 7 | 4 0 | 2 0 | 23 25 | 0 46 | 23 58 | 0 32 | 25 48 | 2 44 | 12 33 | 1 14 | 19 30 | 1 41 | 20 39 | 0 7 | 6 59 | 1 7 | 24 2 | 3 42 | 14 12 | 13 50 | 11 28 | 16 57 | 5 44 |
| T 13 | 23 12 | 2s30 | 3 5 | 23 41 | 0 52 | 24 2 | 0 34 | 25 48 | 2 45 | 12 32 | 1 14 | 19 31 | 1 41 | 20 39 | 0 7 | 6 59 | 1 7 | 24 2 | 3 42 | 14 12 | 13 51 | 11 25 | 16 56 | 5 44 |
| F 14 | 23 15 | 8 48 | 3 58 | 23 56 | 0 58 | 24 5 | 0 36 | 25 48 | 2 47 | 12 32 | 1 14 | 19 32 | 1 41 | 20 39 | 0 7 | 6 58 | 1 7 | 24 3 | 3 42 | 14 13 | 13 52 | 11 22 | 16 56 | 5 44 |
| S 15 | 23 19 | 14 37 | 4 36 | 24 9 | 1 4 | 24 7 | 0 38 | 25 48 | 2 49 | 12 31 | 1 14 | 19 34 | 1 41 | 20 38 | 0 7 | 6 58 | 1 7 | 24 3 | 3 42 | 14 14 | 13 53 | 11 19 | 16 55 | 5 44 |
| S 16 | 23 22 | 19 39 | 4 59 | 24 21 | 1 9 | 24 9 | 0 41 | 25 48 | 2 51 | 12 30 | 1 13 | 19 35 | 1 41 | 20 38 | 0 7 | 6 58 | 1 7 | 24 3 | 3 42 | 14 16 | 13 54 | 11 15 | 16 55 | 5 44 |
| M17 | 23 24 | 23 38 | 5 5 | 24 32 | 1 15 | 24 10 | 0 43 | 25 47 | 2 52 | 12 29 | 1 13 | 19 36 | 1 41 | 20 37 | 0 7 | 6 58 | 1 7 | 24 4 | 3 43 | 14 19 | 13 55 | 11 12 | 16 54 | 5 44 |
| T 18 | 23 26 | 26 19 | 4 54 | 24 42 | 1 20 | 24 10 | 0 45 | 25 46 | 2 54 | 12 29 | 1 13 | 19 37 | 1 41 | 20 37 | 0 7 | 6 57 | 1 7 | 24 4 | 3 43 | 14 22 | 13 56 | 11 9 | 16 54 | 5 44 |
| W19 | 23 27 | 27 33 | 4 29 | 24 50 | 1 25 | 24 9 | 0 47 | 25 46 | 2 55 | 12 28 | 1 12 | 19 38 | 1 41 | 20 36 | 0 7 | 6 57 | 1 7 | 24 4 | 3 43 | 14 26 | 13 57 | 11 6 | 16 54 | 5 44 |
| T 20 | 23 28 | 27 17 | 3 50 | 24 57 | 1 30 | 24 8 | 0 49 | 25 45 | 2 56 | 12 27 | 1 12 | 19 39 | 1 41 | 20 36 | 0 7 | 6 57 | 1 7 | 24 5 | 3 43 | 14 29 | 13 58 | 11 3 | 16 53 | 5 44 |
| F 21 | 23 29 | 25 38 | 3 1 | 25 3 | 1 34 | 24 6 | 0 51 | 25 44 | 2 57 | 12 27 | 1 12 | 19 41 | 1 41 | 20 36 | 0 7 | 6 56 | 1 7 | 24 5 | 3 43 | 14 31 | 13 59 | 11 0 | 16 53 | 5 44 |
| S 22 | 23 29 | 22 47 | 2 4 | 25 7 | 1 39 | 24 3 | 0 53 | 25 43 | 2 59 | 12 27 | 1 12 | 19 42 | 1 41 | 20 35 | 0 7 | 6 56 | 1 7 | 24 5 | 3 43 | 14 33 | 14 0 | 10 57 | 16 52 | 5 44 |
| S 23 | 23 28 | 18 58 | 1 2 | 25 10 | 1 43 | 23 59 | 0 55 | 25 42 | 3 0 | 12 26 | 1 11 | 19 43 | 1 41 | 20 35 | 0 7 | 6 55 | 1 7 | 24 6 | 3 43 | 14 34 | 14 1 | 10 53 | 16 52 | 5 44 |
| M24 | 23 27 | 14 27 | 0n 2 | 25 11 | 1 46 | 23 55 | 0 57 | 25 41 | 3 1 | 12 26 | 1 11 | 19 44 | 1 41 | 20 34 | 0 7 | 6 55 | 1 7 | 24 6 | 3 43 | 14 34 | 14 2 | 10 50 | 16 52 | 5 44 |
| T 25 | 23 26 | 9 26 | 1 5 | 25 11 | 1 50 | 23 50 | 0 59 | 25 39 | 3 1 | 12 26 | 1 11 | 19 45 | 1 41 | 20 34 | 0 7 | 6 55 | 1 6 | 24 7 | 3 43 | 14 34 | 14 3 | 10 47 | 16 51 | 5 44 |
| W26 | 23 24 | 4 5 | 2 6 | 25 10 | 1 53 | 23 44 | 1 1 | 25 38 | 3 2 | 12 26 | 1 10 | 19 46 | 1 41 | 20 34 | 0 7 | 6 54 | 1 6 | 24 7 | 3 44 | 14 34 | 14 4 | 10 44 | 16 51 | 5 44 |
| T 27 | 23 22 | 1n25 | 3 1 | 25 7 | 1 56 | 23 37 | 1 2 | 25 37 | 3 3 | 12 26 | 1 10 | 19 47 | 1 41 | 20 33 | 0 7 | 6 54 | 1 6 | 24 7 | 3 44 | 14 33 | 14 5 | 10 41 | 16 51 | 5 44 |
| F 28 | 23 19 | 6 55 | 3 50 | 25 2 | 1 59 | 23 30 | 1 4 | 25 36 | 3 4 | 12 26 | 1 10 | 19 48 | 1 41 | 20 33 | 0 7 | 6 53 | 1 6 | 24 8 | 3 44 | 14 33 | 14 6 | 10 38 | 16 50 | 5 44 |
| S 29 | 23 16 | 12 17 | 4 29 | 24 56 | 2 1 | 23 22 | 1 6 | 25 34 | 3 4 | 12 26 | 1 9 | 19 49 | 1 41 | 20 32 | 0 7 | 6 53 | 1 6 | 24 8 | 3 44 | 14 33 | 14 7 | 10 34 | 16 50 | 5 44 |
| S 30 | 23 12 | 17 17 | 4 56 | 24 48 | 2 3 | 23 13 | 1 8 | 25 33 | 3 5 | 12 26 | 1 9 | 19 50 | 1 42 | 20 32 | 0 7 | 6 53 | 1 6 | 24 8 | 3 44 | 14 34 | 14 8 | 10 31 | 16 50 | 5 44 |
| M31 | 23s 8 | 21n40 | 5n 9 | 24s39 | 2s 5 | 23s 4 | 1s 9 | 25n32 | 3n 5 | 12n27 | 1s 9 | 19s51 | 1n42 | 20n32 | 0s 7 | 6s52 | 1s 6 | 24n 9 | 3n44 | 14s36 | 14s10 | 10s28 | 16n50 | 5s44 |

Julian Day Number = 2339019.5, Delta T = 17.53 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'23, Lahiri = 19°33'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## JANUARY 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 42 14 | 10♑39'32 | 29♉40 | 17♑ 9 | 21♑43 | 13°R20 | 5♉56 | 7♐10 | 2°R12 | 15♓12 | 28°R31 | 20°R40 | 22♒ 4 | 0♓56 | 13°R53 | T 1 |
| W 2 | 6 46 11 | 11°40'40 | 13♊28 | 18°48 | 22°59 | 13♊ 8 | 5°57 | 7°16 | 2♊10 | 15°13 | 28♋30 | 20♒33 | 22° 1 | 1° 3 | 13♊50 | W 2 |
| T 3 | 6 50 7 | 12°41'49 | 27°40 | 20°27 | 24°14 | 12°56 | 5°57 | 7°22 | 2° 8 | 15°15 | 28°29 | 20°27 | 21°58 | 1°10 | 13°47 | T 3 |
| F 4 | 6 54 4 | 13°42'57 | 12♋12 | 22° 7 | 25°29 | 12°45 | 5°58 | 7°28 | 2° 6 | 15°16 | 28°27 | 20°22 | 21°55 | 1°16 | 13°44 | F 4 |
| S 5 | 6 58 1 | 14°44'05 | 26°57 | 23°46 | 26°44 | 12°35 | 5°59 | 7°34 | 2° 5 | 15°17 | 28°26 | 20°18 | 21°52 | 1°23 | 13°41 | S 5 |
| S 6 | 7 1 57 | 15°45'13 | 11♌47 | 25°26 | 28° 0 | 12°26 | 6° 0 | 7°41 | 2° 3 | 15°19 | 28°25 | 20°16 | 21°49 | 1°30 | 13°38 | S 6 |
| M 7 | 7 5 54 | 16°46'21 | 26°35 | 27° 6 | 29°15 | 12°17 | 6° 1 | 7°47 | 2° 2 | 15°20 | 28°23 | 20°D16 | 21°45 | 1°36 | 13°35 | M 7 |
| T 8 | 7 9 50 | 17°47'28 | 11♍14 | 28°46 | 0♒30 | 12° 9 | 6° 3 | 7°53 | 2° 0 | 15°21 | 28°22 | 20°17 | 21°42 | 1°43 | 13°32 | T 8 |
| W 9 | 7 13 47 | 18°48'35 | 25°39 | 0♒26 | 1°46 | 12° 2 | 6° 5 | 7°59 | 1°58 | 15°23 | 28°21 | 20°19 | 21°39 | 1°50 | 13°29 | W 9 |
| T 10 | 7 17 43 | 19°49'42 | 9♎49 | 2° 5 | 3° 1 | 11°56 | 6° 7 | 8° 5 | 1°57 | 15°24 | 28°19 | 20°20 | 21°36 | 1°56 | 13°26 | T 10 |
| F 11 | 7 21 40 | 20°50'49 | 23°40 | 3°45 | 4°16 | 11°51 | 6° 9 | 8°10 | 1°56 | 15°26 | 28°18 | 20°R20 | 21°33 | 2° 3 | 13°23 | F 11 |
| S 12 | 7 25 36 | 21°51'56 | 7♏15 | 5°23 | 5°31 | 11°46 | 6°11 | 8°16 | 1°54 | 15°27 | 28°17 | 20°19 | 21°30 | 2°10 | 13°20 | S 12 |
| S 13 | 7 29 33 | 22°53'03 | 20°33 | 7° 1 | 6°46 | 11°43 | 6°14 | 8°22 | 1°53 | 15°29 | 28°15 | 20°17 | 21°26 | 2°16 | 13°18 | S 13 |
| M14 | 7 33 30 | 23°54'09 | 3♐35 | 8°38 | 8° 2 | 11°40 | 6°17 | 8°28 | 1°52 | 15°30 | 28°14 | 20°13 | 21°23 | 2°23 | 13°15 | M14 |
| T 15 | 7 37 26 | 24°55'15 | 16°24 | 10°14 | 9°17 | 11°38 | 6°19 | 8°33 | 1°50 | 15°32 | 28°13 | 20° 9 | 21°20 | 2°29 | 13°13 | T 15 |
| W16 | 7 41 23 | 25°56'21 | 28°59 | 11°49 | 10°32 | 11°37 | 6°23 | 8°39 | 1°49 | 15°33 | 28°11 | 20° 5 | 21°17 | 2°36 | 13°10 | W16 |
| T 17 | 7 45 19 | 26°57'26 | 11♑23 | 13°21 | 11°47 | 11°D36 | 6°26 | 8°44 | 1°48 | 15°35 | 28°10 | 20° 1 | 21°14 | 2°43 | 13° 8 | T 17 |
| F 18 | 7 49 16 | 27°58'30 | 23°36 | 14°51 | 13° 2 | 11°36 | 6°30 | 8°50 | 1°47 | 15°37 | 28° 9 | 19°58 | 21°10 | 2°49 | 13° 6 | F 18 |
| S 19 | 7 53 12 | 28°59'34 | 5♒40 | 16°18 | 14°18 | 11°37 | 6°33 | 8°55 | 1°46 | 15°38 | 28° 7 | 19°56 | 21° 7 | 2°56 | 13° 3 | S 19 |
| S 20 | 7 57 9 | 0♒ 0'36 | 17°36 | 17°42 | 15°33 | 11°39 | 6°37 | 9° 1 | 1°45 | 15°40 | 28° 6 | 19°D55 | 21° 4 | 3° 3 | 13° 1 | S 20 |
| M21 | 8 1 5 | 1° 1'38 | 29°26 | 19° 2 | 16°48 | 11°42 | 6°41 | 9° 6 | 1°44 | 15°42 | 28° 5 | 19°55 | 21° 1 | 3° 9 | 12°59 | M21 |
| T 22 | 8 5 2 | 2° 2'39 | 11♓13 | 20°17 | 18° 3 | 11°45 | 6°46 | 9°11 | 1°43 | 15°44 | 28° 3 | 19°57 | 20°58 | 3°16 | 12°57 | T 22 |
| W23 | 8 8 59 | 3° 3'39 | 23° 0 | 21°27 | 19°18 | 11°49 | 6°50 | 9°16 | 1°42 | 15°45 | 28° 2 | 19°58 | 20°55 | 3°23 | 12°55 | W23 |
| T 24 | 8 12 55 | 4° 4'37 | 4♈51 | 22°30 | 20°33 | 11°54 | 6°55 | 9°21 | 1°41 | 15°47 | 28° 0 | 20° 0 | 20°51 | 3°29 | 12°53 | T 24 |
| F 25 | 8 16 52 | 5° 5'35 | 16°50 | 23°27 | 21°48 | 11°59 | 7° 0 | 9°26 | 1°40 | 15°49 | 27°59 | 20° 1 | 20°48 | 3°36 | 12°51 | F 25 |
| S 26 | 8 20 48 | 6° 6'31 | 29° 1 | 24°16 | 23° 3 | 12° 5 | 7° 5 | 9°31 | 1°40 | 15°51 | 27°58 | 20° 2 | 20°45 | 3°43 | 12°49 | S 26 |
| S 27 | 8 24 45 | 7° 7'26 | 11♉30 | 24°56 | 24°18 | 12°12 | 7°10 | 9°36 | 1°39 | 15°53 | 27°56 | 20°R 2 | 20°42 | 3°49 | 12°48 | S 27 |
| M28 | 8 28 41 | 8° 8'19 | 24°20 | 25°27 | 25°33 | 12°19 | 7°15 | 9°41 | 1°38 | 15°55 | 27°55 | 20° 1 | 20°39 | 3°56 | 12°46 | M28 |
| T 29 | 8 32 38 | 9° 9'12 | 7♊35 | 25°47 | 26°48 | 12°27 | 7°21 | 9°46 | 1°38 | 15°56 | 27°54 | 20° 0 | 20°36 | 4° 3 | 12°44 | T 29 |
| W30 | 8 36 34 | 10°10'03 | 21°18 | 25°R58 | 28° 3 | 12°36 | 7°27 | 9°50 | 1°37 | 15°58 | 27°52 | 19°59 | 20°32 | 4° 9 | 12°43 | W30 |
| T 31 | 8 40 31 | 11♒10'52 | 5♋28 | 25♒57 | 29♒18 | 12♊45 | 7♉33 | 9♐55 | 1♊37 | 16♓ 0 | 27♋51 | 19♒58 | 20♒29 | 4♓16 | 12♊42 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 3 | 25n 6 | 5n 7 | 24s28 | 2s 6 | 22s53 | 1s11 | 25n30 | 3n 5 | 12n27 | 1s 8 | 19s52 | 1n42 | 20n31 | 0s 7 | 6s52 | 1s 6 | 24n 9 | 3n44 | 14s38 | 14s11 | 10s25 | 16n49 | 5s44 |
| W 2 | 22 58 | 27 11 | 4 46 | 24 15 | 2 7 | 22 43 | 1 12 | 25 29 | 3 6 | 12 27 | 1 8 | 19 53 | 1 42 | 20 31 | 0 7 | 6 51 | 1 6 | 24 9 | 3 44 | 14 40 | 14 12 | 10 22 | 16 49 | 5 43 |
| T 3 | 22 52 | 27 35 | 4 8 | 24 1 | 2 7 | 22 31 | 1 14 | 25 28 | 3 6 | 12 28 | 1 8 | 19 54 | 1 42 | 20 31 | 0 7 | 6 51 | 1 6 | 24 10 | 3 44 | 14 42 | 14 13 | 10 19 | 16 49 | 5 43 |
| F 4 | 22 46 | 26 7 | 3 13 | 23 45 | 2 7 | 22 19 | 1 15 | 25 26 | 3 6 | 12 28 | 1 8 | 19 55 | 1 42 | 20 30 | 0 7 | 6 50 | 1 6 | 24 10 | 3 45 | 14 44 | 14 14 | 10 15 | 16 49 | 5 43 |
| S 5 | 22 40 | 22 50 | 2 4 | 23 28 | 2 7 | 22 6 | 1 17 | 25 25 | 3 6 | 12 29 | 1 7 | 19 56 | 1 42 | 20 30 | 0 7 | 6 49 | 1 6 | 24 11 | 3 45 | 14 45 | 14 15 | 10 12 | 16 48 | 5 43 |
| S 6 | 22 33 | 18 1 | 0 46 | 23 9 | 2 6 | 21 52 | 1 18 | 25 24 | 3 6 | 12 30 | 1 7 | 19 57 | 1 42 | 20 30 | 0 7 | 6 49 | 1 6 | 24 11 | 3 45 | 14 45 | 14 16 | 10 9 | 16 48 | 5 43 |
| M 7 | 22 26 | 12 8 | 0s35 | 22 49 | 2 5 | 21 38 | 1 19 | 25 23 | 3 6 | 12 30 | 1 7 | 19 58 | 1 42 | 20 29 | 0 7 | 6 48 | 1 6 | 24 11 | 3 45 | 14 45 | 14 17 | 10 6 | 16 48 | 5 43 |
| T 8 | 22 18 | 5 38 | 1 52 | 22 26 | 2 3 | 21 23 | 1 20 | 25 22 | 3 6 | 12 31 | 1 6 | 19 59 | 1 42 | 20 29 | 0 7 | 6 48 | 1 6 | 24 12 | 3 45 | 14 45 | 14 18 | 10 3 | 16 48 | 5 43 |
| W 9 | 22 10 | 1s 3 | 3 2 | 22 3 | 2 0 | 21 8 | 1 22 | 25 20 | 3 6 | 12 32 | 1 6 | 20 0 | 1 42 | 20 29 | 0 7 | 6 47 | 1 6 | 24 12 | 3 45 | 14 45 | 14 19 | 10 0 | 16 48 | 5 42 |
| T 10 | 22 1 | 7 33 | 3 59 | 21 37 | 1 57 | 20 52 | 1 23 | 25 19 | 3 6 | 12 33 | 1 6 | 20 1 | 1 42 | 20 29 | 0 7 | 6 47 | 1 6 | 24 12 | 3 45 | 14 44 | 14 20 | 9 56 | 16 47 | 5 42 |
| F 11 | 21 52 | 13 33 | 4 41 | 21 11 | 1 53 | 20 35 | 1 24 | 25 19 | 3 5 | 12 34 | 1 5 | 20 2 | 1 42 | 20 28 | 0 7 | 6 46 | 1 6 | 24 13 | 3 45 | 14 44 | 14 21 | 9 53 | 16 47 | 5 42 |
| S 12 | 21 42 | 18 46 | 5 6 | 20 42 | 1 48 | 20 18 | 1 25 | 25 18 | 3 5 | 12 35 | 1 5 | 20 3 | 1 42 | 20 28 | 0 7 | 6 45 | 1 6 | 24 13 | 3 45 | 14 44 | 14 22 | 9 50 | 16 47 | 5 42 |
| S 13 | 21 32 | 22 57 | 5 14 | 20 13 | 1 43 | 20 0 | 1 26 | 25 17 | 3 5 | 12 36 | 1 5 | 20 3 | 1 42 | 20 28 | 0 7 | 6 45 | 1 6 | 24 13 | 3 45 | 14 45 | 14 23 | 9 47 | 16 47 | 5 42 |
| M14 | 21 22 | 25 54 | 5 5 | 19 42 | 1 37 | 19 41 | 1 27 | 25 16 | 3 4 | 12 37 | 1 5 | 20 4 | 1 42 | 20 27 | 0 7 | 6 44 | 1 6 | 24 14 | 3 45 | 14 46 | 14 24 | 9 44 | 16 47 | 5 41 |
| T 15 | 21 11 | 27 27 | 4 42 | 19 10 | 1 31 | 19 22 | 1 27 | 25 15 | 3 4 | 12 38 | 1 4 | 20 5 | 1 42 | 20 27 | 0 7 | 6 44 | 1 6 | 24 14 | 3 45 | 14 48 | 14 25 | 9 40 | 16 47 | 5 41 |
| W16 | 21 0 | 27 33 | 4 5 | 18 37 | 1 23 | 19 2 | 1 28 | 25 15 | 3 4 | 12 40 | 1 4 | 20 6 | 1 42 | 20 27 | 0 7 | 6 43 | 1 6 | 24 14 | 3 46 | 14 49 | 14 26 | 9 37 | 16 47 | 5 41 |
| T 17 | 20 48 | 26 16 | 3 17 | 18 2 | 1 15 | 18 42 | 1 29 | 25 14 | 3 3 | 12 41 | 1 4 | 20 7 | 1 42 | 20 27 | 0 7 | 6 42 | 1 6 | 24 15 | 3 46 | 14 50 | 14 27 | 9 34 | 16 47 | 5 41 |
| F 18 | 20 36 | 23 43 | 2 20 | 17 27 | 1 6 | 18 21 | 1 29 | 25 14 | 3 3 | 12 43 | 1 3 | 20 7 | 1 43 | 20 27 | 0 7 | 6 42 | 1 6 | 24 15 | 3 46 | 14 51 | 14 28 | 9 31 | 16 47 | 5 41 |
| S 19 | 20 24 | 20 9 | 1 18 | 16 52 | 0 56 | 18 0 | 1 30 | 25 13 | 3 2 | 12 44 | 1 3 | 20 8 | 1 43 | 20 26 | 0 7 | 6 41 | 1 6 | 24 16 | 3 46 | 14 52 | 14 29 | 9 28 | 16 47 | 5 40 |
| S 20 | 20 11 | 15 47 | 0 13 | 16 16 | 0 45 | 17 38 | 1 30 | 25 13 | 3 2 | 12 46 | 1 3 | 20 9 | 1 43 | 20 26 | 0 7 | 6 40 | 1 6 | 24 16 | 3 46 | 14 52 | 14 30 | 9 24 | 16 47 | 5 40 |
| M21 | 19 58 | 10 52 | 0n52 | 15 40 | 0 33 | 17 16 | 1 31 | 25 13 | 3 1 | 12 47 | 1 2 | 20 10 | 1 43 | 20 26 | 0 7 | 6 40 | 1 6 | 24 16 | 3 46 | 14 52 | 14 31 | 9 21 | 16 47 | 5 40 |
| T 22 | 19 44 | 5 36 | 1 55 | 15 4 | 0 20 | 16 54 | 1 31 | 25 13 | 3 0 | 12 49 | 1 2 | 20 10 | 1 43 | 20 26 | 0 7 | 6 39 | 1 6 | 24 17 | 3 46 | 14 51 | 14 32 | 9 18 | 16 47 | 5 40 |
| W23 | 19 30 | 0 8 | 2 53 | 14 29 | 0 7 | 16 30 | 1 31 | 25 13 | 3 0 | 12 51 | 1 2 | 20 11 | 1 43 | 20 26 | 0 7 | 6 38 | 1 6 | 24 17 | 3 46 | 14 51 | 14 33 | 9 15 | 16 47 | 5 39 |
| T 24 | 19 16 | 5n21 | 3 44 | 13 55 | 0n 7 | 16 7 | 1 32 | 25 13 | 2 59 | 12 53 | 1 2 | 20 12 | 1 43 | 20 26 | 0 7 | 6 37 | 1 6 | 24 17 | 3 46 | 14 51 | 14 34 | 9 12 | 16 47 | 5 39 |
| F 25 | 19 2 | 10 43 | 4 26 | 13 22 | 0 23 | 15 43 | 1 32 | 25 13 | 2 59 | 12 54 | 1 1 | 20 12 | 1 43 | 20 25 | 0 7 | 6 37 | 1 6 | 24 18 | 3 46 | 14 50 | 14 35 | 9 8 | 16 47 | 5 39 |
| S 26 | 18 47 | 15 45 | 4 56 | 12 51 | 0 38 | 15 18 | 1 32 | 25 13 | 2 58 | 12 56 | 1 1 | 20 13 | 1 43 | 20 25 | 0 7 | 6 36 | 1 6 | 24 18 | 3 46 | 14 50 | 14 36 | 9 5 | 16 47 | 5 39 |
| S 27 | 18 31 | 20 16 | 5 14 | 12 22 | 0 55 | 14 53 | 1 32 | 25 13 | 2 57 | 12 58 | 1 1 | 20 14 | 1 43 | 20 25 | 0 7 | 6 35 | 1 6 | 24 18 | 3 46 | 14 50 | 14 37 | 9 2 | 16 47 | 5 38 |
| M28 | 18 16 | 24 0 | 5 16 | 11 56 | 1 12 | 14 28 | 1 32 | 25 14 | 2 56 | 13 0 | 1 0 | 20 14 | 1 43 | 20 25 | 0 7 | 6 35 | 1 6 | 24 19 | 3 46 | 14 50 | 14 38 | 8 59 | 16 47 | 5 38 |
| T 29 | 18 0 | 26 35 | 5 3 | 11 33 | 1 29 | 14 2 | 1 32 | 25 14 | 2 56 | 13 2 | 1 0 | 20 15 | 1 43 | 20 25 | 0 7 | 6 34 | 1 6 | 24 19 | 3 46 | 14 50 | 14 39 | 8 56 | 16 47 | 5 38 |
| W30 | 17 44 | 27 42 | 4 31 | 11 13 | 1 46 | 13 36 | 1 31 | 25 14 | 2 55 | 13 5 | 1 0 | 20 15 | 1 44 | 20 25 | 0 7 | 6 33 | 1 6 | 24 19 | 3 46 | 14 51 | 14 40 | 8 52 | 16 47 | 5 37 |
| T 31 | 17s27 | 27n 5 | 3n43 | 10s58 | 2n 3 | 13s10 | 1s31 | 25n15 | 2n54 | 13n 7 | 1s 0 | 20s16 | 1n44 | 20n25 | 0s 7 | 6s32 | 1s 6 | 24n19 | 3n46 | 14s51 | 14s41 | 8s49 | 16n47 | 5s37 |

Julian Day Number = 2339050.5, Delta T = 17.49 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'27, Lahiri = 19°33'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## FEBRUARY 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 44 28 | 12♒11'40 | 20♋ 4 | 25°R45 | 0♓33 | 12♊55 | 7♉39 | 9♐59 | 1°R36 | 16♓ 2 | 27°R50 | 19°R57 | 20♒26 | 4♓23 | 12°R40 | F 1 |
| S 2 | 8 48 24 | 13°12'27 | 4♌58 | 25♒22 | 1°48 | 13° 6 | 7°45 | 10° 4 | 1♊36 | 16° 4 | 27♋49 | 19♒56 | 20°23 | 4°29 | 12♊39 | S 2 |
| S 3 | 8 52 21 | 14°13'13 | 20° 5 | 24°49 | 3° 2 | 13°17 | 7°51 | 10° 8 | 1°36 | 16° 6 | 27°47 | 19°D56 | 20°20 | 4°36 | 12°38 | S 3 |
| M 4 | 8 56 17 | 15°13'57 | 5♍14 | 24° 5 | 4°17 | 13°28 | 7°58 | 10°12 | 1°36 | 16° 8 | 27°46 | 19°56 | 20°16 | 4°42 | 12°37 | M 4 |
| T 5 | 9 0 14 | 16°14'40 | 20°17 | 23°14 | 5°32 | 13°40 | 8° 5 | 10°16 | 1°35 | 16°10 | 27°45 | 19°56 | 20°13 | 4°49 | 12°36 | T 5 |
| W 6 | 9 4 10 | 17°15'22 | 5♎ 6 | 22°15 | 6°47 | 13°53 | 8°12 | 10°21 | 1°35 | 16°12 | 27°43 | 19°57 | 20°10 | 4°56 | 12°35 | W 6 |
| T 7 | 9 8 7 | 18°16'02 | 19°34 | 21°11 | 8° 1 | 14° 6 | 8°19 | 10°25 | 1°35 | 16°14 | 27°42 | 19°57 | 20° 7 | 5° 2 | 12°34 | T 7 |
| F 8 | 9 12 3 | 19°16'42 | 3♏38 | 20° 3 | 9°16 | 14°20 | 8°26 | 10°29 | 1°D35 | 16°16 | 27°41 | 19°57 | 20° 4 | 5° 9 | 12°33 | F 8 |
| S 9 | 9 16 0 | 20°17'21 | 17°17 | 18°53 | 10°31 | 14°34 | 8°33 | 10°32 | 1°35 | 16°19 | 27°40 | 19°57 | 20° 1 | 5°16 | 12°32 | S 9 |
| S 10 | 9 19 57 | 21°17'58 | 0♐33 | 17°43 | 11°45 | 14°49 | 8°41 | 10°36 | 1°35 | 16°21 | 27°38 | 19°57 | 19°57 | 5°22 | 12°32 | S 10 |
| M11 | 9 23 53 | 22°18'34 | 13°28 | 16°36 | 13° 0 | 15° 4 | 8°49 | 10°40 | 1°35 | 16°23 | 27°37 | 19°57 | 19°54 | 5°29 | 12°31 | M11 |
| T 12 | 9 27 50 | 23°19'09 | 26° 4 | 15°31 | 14°15 | 15°20 | 8°56 | 10°44 | 1°36 | 16°25 | 27°36 | 19°58 | 19°51 | 5°36 | 12°31 | T 12 |
| W13 | 9 31 46 | 24°19'43 | 8♑25 | 14°32 | 15°29 | 15°36 | 9° 4 | 10°47 | 1°36 | 16°27 | 27°35 | 19°58 | 19°48 | 5°42 | 12°30 | W13 |
| T 14 | 9 35 43 | 25°20'16 | 20°34 | 13°38 | 16°44 | 15°53 | 9°13 | 10°50 | 1°36 | 16°29 | 27°34 | 19°59 | 19°45 | 5°49 | 12°30 | T 14 |
| F 15 | 9 39 39 | 26°20'47 | 2♒34 | 12°51 | 17°58 | 16°10 | 9°21 | 10°54 | 1°36 | 16°31 | 27°33 | 19°59 | 19°42 | 5°56 | 12°30 | F 15 |
| S 16 | 9 43 36 | 27°21'16 | 14°28 | 12°11 | 19°13 | 16°27 | 9°29 | 10°57 | 1°37 | 16°33 | 27°31 | 19°R59 | 19°38 | 6° 2 | 12°30 | S 16 |
| S 17 | 9 47 32 | 28°21'44 | 26°17 | 11°38 | 20°27 | 16°45 | 9°38 | 11° 0 | 1°37 | 16°36 | 27°30 | 19°59 | 19°35 | 6° 9 | 12°D30 | S 17 |
| M18 | 9 51 29 | 29°22'10 | 8♓ 5 | 11°13 | 21°42 | 17° 3 | 9°46 | 11° 3 | 1°38 | 16°38 | 27°29 | 19°59 | 19°32 | 6°16 | 12°30 | M18 |
| T 19 | 9 55 26 | 0♓22'35 | 19°53 | 10°56 | 22°56 | 17°22 | 9°55 | 11° 6 | 1°38 | 16°40 | 27°28 | 19°58 | 19°29 | 6°22 | 12°30 | T 19 |
| W20 | 9 59 22 | 1°22'58 | 1♈43 | 10°45 | 24°10 | 17°41 | 10° 4 | 11° 9 | 1°39 | 16°42 | 27°27 | 19°56 | 19°26 | 6°29 | 12°30 | W20 |
| T 21 | 10 3 19 | 2°23'18 | 13°38 | 10°D42 | 25°25 | 18° 1 | 10°13 | 11°12 | 1°40 | 16°44 | 27°26 | 19°54 | 19°22 | 6°36 | 12°30 | T 21 |
| F 22 | 10 7 15 | 3°23'37 | 25°41 | 10°45 | 26°39 | 18°21 | 10°22 | 11°15 | 1°40 | 16°47 | 27°25 | 19°52 | 19°19 | 6°42 | 12°31 | F 22 |
| S 23 | 10 11 12 | 4°23'54 | 7♉54 | 10°55 | 27°53 | 18°41 | 10°32 | 11°17 | 1°41 | 16°49 | 27°24 | 19°51 | 19°16 | 6°49 | 12°31 | S 23 |
| S 24 | 10 15 8 | 5°24'10 | 20°22 | 11°10 | 29° 7 | 19° 1 | 10°41 | 11°20 | 1°42 | 16°51 | 27°23 | 19°49 | 19°13 | 6°55 | 12°32 | S 24 |
| M25 | 10 19 5 | 6°24'23 | 3♊ 8 | 11°31 | 0♈22 | 19°22 | 10°51 | 11°22 | 1°43 | 16°53 | 27°22 | 19°D49 | 19°10 | 7° 2 | 12°32 | M25 |
| T 26 | 10 23 1 | 7°24'34 | 16°15 | 11°58 | 1°36 | 19°44 | 11° 1 | 11°25 | 1°44 | 16°56 | 27°21 | 19°49 | 19° 7 | 7° 9 | 12°33 | T 26 |
| W27 | 10 26 58 | 8°24'43 | 29°47 | 12°29 | 2°50 | 20° 5 | 11°10 | 11°27 | 1°45 | 16°58 | 27°20 | 19°50 | 19° 3 | 7°15 | 12°34 | W27 |
| T 28 | 10 30 55 | 9°24'50 | 13♋45 | 13° 5 | 4° 4 | 20°27 | 11°20 | 11°29 | 1°46 | 17° 0 | 27°19 | 19°51 | 19° 0 | 7°22 | 12°34 | T 28 |
| F 29 | 10 34 51 | 10♓24'54 | 28♋ 8 | 13♒45 | 5♈18 | 20♊49 | 11♉30 | 11♐31 | 1♊47 | 17♓ 2 | 27♋18 | 19♒52 | 18♒57 | 7♓29 | 12♊35 | F 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17s10 | 24n36 | 2n39 | 10s46 | 2n20 | 12s43 | 1s31 | 25n15 | 2n54 | 13n 9 | 0s59 | 20s17 | 1n44 | 20n25 | 0s 7 | 6s32 | 1s 6 | 24n20 | 3n47 | 14s51 | 14s42 | 8s46 | 16n47 | 5s37 |
| S 2 | 16 53 | 20 23 | 1 22 | 10 38 | 2 36 | 12 16 | 1 30 | 25 16 | 2 53 | 13 11 | 0 59 | 20 17 | 1 44 | 20 25 | 0 7 | 6 31 | 1 6 | 24 20 | 3 47 | 14 52 | 14 43 | 8 43 | 16 47 | 5 36 |
| S 3 | 16 36 | 14 48 | 0s 1 | 10 35 | 2 51 | 11 48 | 1 30 | 25 17 | 2 52 | 13 14 | 0 59 | 20 18 | 1 44 | 20 25 | 0 7 | 6 30 | 1 6 | 24 20 | 3 47 | 14 52 | 14 44 | 8 39 | 16 48 | 5 36 |
| M 4 | 16 18 | 8 18 | 1 24 | 10 37 | 3 4 | 11 21 | 1 29 | 25 17 | 2 51 | 13 16 | 0 59 | 20 18 | 1 44 | 20 25 | 0 7 | 6 29 | 1 6 | 24 21 | 3 47 | 14 52 | 14 45 | 8 36 | 16 48 | 5 36 |
| T 5 | 16 0 | 1 23 | 2 41 | 10 42 | 3 16 | 10 52 | 1 29 | 25 18 | 2 50 | 13 18 | 0 58 | 20 19 | 1 44 | 20 25 | 0 7 | 6 28 | 1 6 | 24 21 | 3 47 | 14 52 | 14 46 | 8 33 | 16 48 | 5 36 |
| W 6 | 15 41 | 5s29 | 3 46 | 10 52 | 3 26 | 10 24 | 1 28 | 25 19 | 2 50 | 13 21 | 0 58 | 20 19 | 1 44 | 20 25 | 0 7 | 6 28 | 1 6 | 24 21 | 3 47 | 14 51 | 14 47 | 8 30 | 16 48 | 5 35 |
| T 7 | 15 23 | 11 54 | 4 35 | 11 5 | 3 34 | 9 56 | 1 27 | 25 20 | 2 49 | 13 23 | 0 58 | 20 20 | 1 44 | 20 25 | 0 6 | 6 27 | 1 6 | 24 22 | 3 47 | 14 51 | 14 48 | 8 27 | 16 48 | 5 35 |
| F 8 | 15 4 | 17 32 | 5 5 | 11 21 | 3 40 | 9 27 | 1 27 | 25 20 | 2 48 | 13 26 | 0 58 | 20 20 | 1 44 | 20 25 | 0 6 | 6 26 | 1 6 | 24 22 | 3 47 | 14 51 | 14 49 | 8 23 | 16 49 | 5 35 |
| S 9 | 14 45 | 22 6 | 5 18 | 11 39 | 3 43 | 8 58 | 1 26 | 25 21 | 2 47 | 13 29 | 0 57 | 20 21 | 1 44 | 20 25 | 0 6 | 6 25 | 1 6 | 24 22 | 3 47 | 14 51 | 14 50 | 8 20 | 16 49 | 5 34 |
| S 10 | 14 26 | 25 24 | 5 13 | 12 0 | 3 44 | 8 28 | 1 25 | 25 22 | 2 46 | 13 31 | 0 57 | 20 21 | 1 45 | 20 25 | 0 6 | 6 24 | 1 6 | 24 22 | 3 47 | 14 51 | 14 51 | 8 17 | 16 49 | 5 34 |
| M11 | 14 6 | 27 17 | 4 52 | 12 21 | 3 42 | 7 59 | 1 24 | 25 23 | 2 46 | 13 34 | 0 57 | 20 21 | 1 45 | 20 25 | 0 6 | 6 23 | 1 6 | 24 23 | 3 47 | 14 51 | 14 52 | 8 14 | 16 49 | 5 34 |
| T 12 | 13 46 | 27 42 | 4 17 | 12 44 | 3 38 | 7 29 | 1 23 | 25 24 | 2 45 | 13 37 | 0 57 | 20 22 | 1 45 | 20 25 | 0 6 | 6 23 | 1 6 | 24 23 | 3 47 | 14 51 | 14 53 | 8 10 | 16 50 | 5 33 |
| W13 | 13 26 | 26 44 | 3 31 | 13 6 | 3 33 | 6 59 | 1 21 | 25 25 | 2 44 | 13 39 | 0 56 | 20 22 | 1 45 | 20 25 | 0 6 | 6 22 | 1 6 | 24 23 | 3 47 | 14 51 | 14 54 | 8 7 | 16 50 | 5 33 |
| T 14 | 13 6 | 24 29 | 2 36 | 13 29 | 3 25 | 6 29 | 1 20 | 25 26 | 2 43 | 13 42 | 0 56 | 20 23 | 1 45 | 20 25 | 0 6 | 6 21 | 1 6 | 24 24 | 3 47 | 14 51 | 14 55 | 8 4 | 16 50 | 5 33 |
| F 15 | 12 45 | 21 10 | 1 35 | 13 51 | 3 16 | 5 58 | 1 19 | 25 27 | 2 42 | 13 45 | 0 56 | 20 23 | 1 45 | 20 25 | 0 6 | 6 20 | 1 6 | 24 24 | 3 47 | 14 51 | 14 56 | 8 1 | 16 50 | 5 32 |
| S 16 | 12 25 | 17 1 | 0 31 | 14 11 | 3 6 | 5 28 | 1 18 | 25 28 | 2 41 | 13 48 | 0 56 | 20 23 | 1 45 | 20 25 | 0 6 | 6 19 | 1 6 | 24 24 | 3 47 | 14 51 | 14 57 | 7 58 | 16 51 | 5 32 |
| S 17 | 12 4 | 12 14 | 0n35 | 14 31 | 2 55 | 4 57 | 1 16 | 25 29 | 2 41 | 13 51 | 0 55 | 20 24 | 1 45 | 20 25 | 0 6 | 6 18 | 1 6 | 24 24 | 3 47 | 14 51 | 14 58 | 7 54 | 16 51 | 5 32 |
| M18 | 11 43 | 7 2 | 1 39 | 14 49 | 2 43 | 4 27 | 1 15 | 25 30 | 2 40 | 13 54 | 0 55 | 20 24 | 1 46 | 20 25 | 0 6 | 6 18 | 1 6 | 24 25 | 3 47 | 14 51 | 14 59 | 7 51 | 16 51 | 5 31 |
| T 19 | 11 22 | 1 35 | 2 38 | 15 6 | 2 31 | 3 56 | 1 13 | 25 31 | 2 39 | 13 57 | 0 55 | 20 24 | 1 46 | 20 25 | 0 6 | 6 17 | 1 6 | 24 25 | 3 47 | 14 51 | 15 0 | 7 48 | 16 52 | 5 31 |
| W20 | 11 0 | 3n55 | 3 31 | 15 21 | 2 18 | 3 25 | 1 11 | 25 32 | 2 38 | 14 0 | 0 55 | 20 24 | 1 46 | 20 25 | 0 6 | 6 16 | 1 6 | 24 25 | 3 47 | 14 52 | 15 1 | 7 45 | 16 52 | 5 31 |
| T 21 | 10 39 | 9 19 | 4 16 | 15 35 | 2 5 | 2 54 | 1 10 | 25 33 | 2 37 | 14 3 | 0 54 | 20 25 | 1 46 | 20 26 | 0 6 | 6 15 | 1 6 | 24 25 | 3 47 | 14 52 | 15 2 | 7 41 | 16 52 | 5 30 |
| F 22 | 10 17 | 14 25 | 4 49 | 15 47 | 1 52 | 2 23 | 1 8 | 25 34 | 2 36 | 14 6 | 0 54 | 20 25 | 1 46 | 20 26 | 0 6 | 6 14 | 1 6 | 24 25 | 3 47 | 14 53 | 15 3 | 7 38 | 16 53 | 5 30 |
| S 23 | 9 55 | 19 3 | 5 10 | 15 57 | 1 38 | 1 51 | 1 6 | 25 35 | 2 36 | 14 9 | 0 54 | 20 25 | 1 46 | 20 26 | 0 6 | 6 13 | 1 6 | 24 26 | 3 47 | 14 53 | 15 4 | 7 35 | 16 53 | 5 30 |
| S 24 | 9 33 | 22 57 | 5 16 | 16 5 | 1 25 | 1 20 | 1 4 | 25 36 | 2 35 | 14 12 | 0 54 | 20 25 | 1 46 | 20 26 | 0 6 | 6 12 | 1 6 | 24 26 | 3 47 | 14 54 | 15 5 | 7 32 | 16 54 | 5 29 |
| M25 | 9 11 | 25 51 | 5 8 | 16 12 | 1 12 | 0 49 | 1 2 | 25 37 | 2 34 | 14 16 | 0 53 | 20 26 | 1 46 | 20 26 | 0 6 | 6 11 | 1 6 | 24 26 | 3 47 | 14 54 | 15 6 | 7 28 | 16 54 | 5 29 |
| T 26 | 8 48 | 27 28 | 4 44 | 16 17 | 0 59 | 0 17 | 1 1 | 25 38 | 2 33 | 14 19 | 0 53 | 20 26 | 1 46 | 20 27 | 0 6 | 6 11 | 1 6 | 24 26 | 3 47 | 14 54 | 15 7 | 7 25 | 16 55 | 5 29 |
| W27 | 8 26 | 27 32 | 4 3 | 16 20 | 0 47 | 0n14 | 0 59 | 25 38 | 2 32 | 14 22 | 0 53 | 20 26 | 1 47 | 20 27 | 0 6 | 6 10 | 1 6 | 24 27 | 3 47 | 14 54 | 15 8 | 7 22 | 16 55 | 5 28 |
| T 28 | 8 3 | 25 52 | 3 7 | 16 22 | 0 35 | 0 45 | 0 56 | 25 39 | 2 31 | 14 25 | 0 53 | 20 26 | 1 47 | 20 27 | 0 6 | 6 9 | 1 6 | 24 27 | 3 47 | 14 53 | 15 9 | 7 19 | 16 55 | 5 28 |
| F 29 | 7s41 | 22n29 | 1n57 | 16s22 | 0n23 | 1n17 | 0s54 | 25n40 | 2n31 | 14n29 | 0s53 | 20s26 | 1n47 | 20n27 | 0s 6 | 6s 8 | 1s 6 | 24n27 | 3n47 | 14s53 | 15s10 | 7s15 | 16n56 | 5s28 |

Julian Day Number = 2339081.5, Delta T = 17.45 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'31, Lahiri = 19°33'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## MARCH 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 38 48 | 11♓24'57 | 12♌55 | 14♒28 | 6♈32 | 21♊12 | 11♉41 | 11♐33 | 1♊48 | 17♓ 5 | 27°R17 | 19°R53 | 18♒54 | 7♓35 | 12♊36 | S 1 |
| S 2 | 10 42 44 | 12°24'57 | 27°59 | 15°16 | 7°46 | 21°35 | 11°51 | 11°35 | 1°49 | 17° 7 | 27♋16 | 19♒53 | 18°51 | 7°42 | 12°38 | S 2 |
| M 3 | 10 46 41 | 13°24'56 | 13♍14 | 16° 7 | 8°59 | 21°58 | 12° 1 | 11°37 | 1°50 | 17° 9 | 27°15 | 19°52 | 18°48 | 7°49 | 12°39 | M 3 |
| T 4 | 10 50 37 | 14°24'52 | 28°28 | 17° 1 | 10°13 | 22°21 | 12°12 | 11°39 | 1°52 | 17°11 | 27°14 | 19°50 | 18°44 | 7°55 | 12°40 | T 4 |
| W 5 | 10 54 34 | 15°24'47 | 13♎31 | 17°58 | 11°27 | 22°45 | 12°22 | 11°40 | 1°53 | 17°14 | 27°13 | 19°46 | 18°41 | 8° 2 | 12°41 | W 5 |
| T 6 | 10 58 30 | 16°24'40 | 28°16 | 18°58 | 12°41 | 23° 9 | 12°33 | 11°42 | 1°54 | 17°16 | 27°13 | 19°42 | 18°38 | 8° 9 | 12°43 | T 6 |
| F 7 | 11 2 27 | 17°24'31 | 12♏36 | 20° 0 | 13°54 | 23°33 | 12°44 | 11°43 | 1°56 | 17°18 | 27°12 | 19°39 | 18°35 | 8°15 | 12°44 | F 7 |
| S 8 | 11 6 24 | 18°24'21 | 26°27 | 21° 5 | 15° 8 | 23°58 | 12°55 | 11°44 | 1°57 | 17°21 | 27°11 | 19°36 | 18°32 | 8°22 | 12°46 | S 8 |
| S 9 | 11 10 20 | 19°24'09 | 9♐49 | 22°12 | 16°22 | 24°22 | 13° 6 | 11°45 | 1°59 | 17°23 | 27°10 | 19°34 | 18°28 | 8°29 | 12°47 | S 9 |
| M10 | 11 14 17 | 20°23'55 | 22°46 | 23°22 | 17°35 | 24°47 | 13°17 | 11°46 | 2° 0 | 17°25 | 27°10 | 19°D34 | 18°25 | 8°35 | 12°49 | M10 |
| T 11 | 11 18 13 | 21°23'40 | 5♑20 | 24°33 | 18°49 | 25°13 | 13°28 | 11°47 | 2° 2 | 17°27 | 27° 9 | 19°35 | 18°22 | 8°42 | 12°51 | T 11 |
| W12 | 11 22 10 | 22°23'23 | 17°35 | 25°47 | 20° 2 | 25°38 | 13°39 | 11°48 | 2° 3 | 17°30 | 27° 8 | 19°36 | 18°19 | 8°49 | 12°53 | W12 |
| T 13 | 11 26 6 | 23°23'04 | 29°37 | 27° 2 | 21°15 | 26° 4 | 13°51 | 11°49 | 2° 5 | 17°32 | 27° 7 | 19°38 | 18°16 | 8°55 | 12°55 | T 13 |
| F 14 | 11 30 3 | 24°22'43 | 11♒30 | 28°19 | 22°29 | 26°30 | 14° 2 | 11°50 | 2° 7 | 17°34 | 27° 7 | 19°39 | 18°13 | 9° 2 | 12°57 | F 14 |
| S 15 | 11 33 59 | 25°22'20 | 23°18 | 29°38 | 23°42 | 26°56 | 14°14 | 11°50 | 2° 9 | 17°36 | 27° 6 | 19°R40 | 18° 9 | 9° 9 | 12°59 | S 15 |
| S 16 | 11 37 56 | 26°21'56 | 5♓ 5 | 0♓59 | 24°55 | 27°22 | 14°25 | 11°51 | 2°11 | 17°39 | 27° 6 | 19°38 | 18° 6 | 9°15 | 13° 1 | S 16 |
| M17 | 11 41 53 | 27°21'29 | 16°52 | 2°21 | 26° 8 | 27°49 | 14°37 | 11°51 | 2°12 | 17°41 | 27° 5 | 19°35 | 18° 3 | 9°22 | 13° 3 | M17 |
| T 18 | 11 45 49 | 28°21'00 | 28°44 | 3°45 | 27°22 | 28°15 | 14°49 | 11°52 | 2°14 | 17°43 | 27° 4 | 19°30 | 18° 0 | 9°28 | 13° 5 | T 18 |
| W19 | 11 49 46 | 29°20'30 | 10♈41 | 5°10 | 28°35 | 28°42 | 15° 1 | 11°52 | 2°16 | 17°45 | 27° 4 | 19°23 | 17°57 | 9°35 | 13° 8 | W19 |
| T 20 | 11 53 42 | 0♈19'57 | 22°45 | 6°37 | 29°48 | 29°10 | 15°13 | 11°R52 | 2°18 | 17°48 | 27° 3 | 19°16 | 17°53 | 9°42 | 13°10 | T 20 |
| F 21 | 11 57 39 | 1°19'22 | 4♉58 | 8° 6 | 1♉ 1 | 29°37 | 15°25 | 11°52 | 2°20 | 17°50 | 27° 3 | 19° 8 | 17°50 | 9°48 | 13°13 | F 21 |
| S 22 | 12 1 35 | 2°18'45 | 17°21 | 9°36 | 2°14 | 0♋ 5 | 15°37 | 11°52 | 2°23 | 17°52 | 27° 3 | 19° 0 | 17°47 | 9°55 | 13°15 | S 22 |
| S 23 | 12 5 32 | 3°18'06 | 29°56 | 11° 7 | 3°26 | 0°32 | 15°49 | 11°51 | 2°25 | 17°54 | 27° 2 | 18°54 | 17°44 | 10° 2 | 13°18 | S 23 |
| M24 | 12 9 28 | 4°17'25 | 12♊45 | 12°40 | 4°39 | 1° 0 | 16° 1 | 11°51 | 2°27 | 17°57 | 27° 2 | 18°50 | 17°41 | 10° 8 | 13°21 | M24 |
| T 25 | 12 13 25 | 5°16'41 | 25°51 | 14°14 | 5°52 | 1°28 | 16°14 | 11°51 | 2°29 | 17°59 | 27° 1 | 18°48 | 17°38 | 10°15 | 13°23 | T 25 |
| W26 | 12 17 22 | 6°15'55 | 9♋15 | 15°50 | 7° 5 | 1°57 | 16°26 | 11°50 | 2°31 | 18° 1 | 27° 1 | 18°D47 | 17°34 | 10°22 | 13°26 | W26 |
| T 27 | 12 21 18 | 7°15'07 | 23° 1 | 17°27 | 8°17 | 2°25 | 16°38 | 11°50 | 2°34 | 18° 3 | 27° 1 | 18°48 | 17°31 | 10°28 | 13°29 | T 27 |
| F 28 | 12 25 15 | 8°14'16 | 7♌ 8 | 19° 5 | 9°30 | 2°54 | 16°51 | 11°49 | 2°36 | 18° 5 | 27° 0 | 18°49 | 17°28 | 10°35 | 13°32 | F 28 |
| S 29 | 12 29 11 | 9°13'23 | 21°38 | 20°45 | 10°42 | 3°22 | 17° 4 | 11°48 | 2°38 | 18° 8 | 27° 0 | 18°R50 | 17°25 | 10°42 | 13°35 | S 29 |
| S 30 | 12 33 8 | 10°12'28 | 6♍26 | 22°27 | 11°55 | 3°51 | 17°16 | 11°47 | 2°41 | 18°10 | 27° 0 | 18°48 | 17°22 | 10°48 | 13°38 | S 30 |
| M31 | 12 37 4 | 11♈11'30 | 21♍27 | 24♓10 | 13♉ 7 | 4♋20 | 17♉29 | 11♐46 | 2♊43 | 18♓12 | 27♋ 0 | 18♒45 | 17♒19 | 10♓55 | 13♊41 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s18 | 17n35 | 0n38 | 16s20 | 0n11 | 1n48 | 0s52 | 25n41 | 2n30 | 14n32 | 0s52 | 20s27 | 1n47 | 20n27 | 0s 6 | 6s 7 | 1s 6 | 24n27 | 3n47 | 14s53 | 15s11 | 7s12 | 16n56 | 5s27 |
| S 2 | 6 55 | 11 30 | 0s45 | 16 17 | 0s 0 | 2 19 | 0 50 | 25 42 | 2 29 | 14 35 | 0 52 | 20 27 | 1 47 | 20 28 | 0 6 | 6 6 | 1 6 | 24 27 | 3 47 | 14 53 | 15 12 | 7 9 | 16 57 | 5 27 |
| M 3 | 6 32 | 4 41 | 2 5 | 16 13 | 0 11 | 2 50 | 0 48 | 25 42 | 2 28 | 14 39 | 0 52 | 20 27 | 1 47 | 20 28 | 0 6 | 6 5 | 1 6 | 24 27 | 3 47 | 14 53 | 15 13 | 7 6 | 16 57 | 5 27 |
| T 4 | 6 9 | 2s24 | 3 17 | 16 6 | 0 21 | 3 22 | 0 45 | 25 43 | 2 27 | 14 42 | 0 52 | 20 27 | 1 47 | 20 28 | 0 6 | 6 4 | 1 6 | 24 28 | 3 47 | 14 54 | 15 14 | 7 2 | 16 58 | 5 26 |
| W 5 | 5 46 | 9 14 | 4 14 | 15 58 | 0 31 | 3 53 | 0 43 | 25 43 | 2 27 | 14 46 | 0 51 | 20 27 | 1 47 | 20 29 | 0 6 | 6 4 | 1 6 | 24 28 | 3 47 | 14 55 | 15 15 | 6 59 | 16 58 | 5 26 |
| T 6 | 5 22 | 15 25 | 4 53 | 15 49 | 0 41 | 4 24 | 0 40 | 25 44 | 2 26 | 14 49 | 0 51 | 20 27 | 1 48 | 20 29 | 0 6 | 6 3 | 1 6 | 24 28 | 3 47 | 14 56 | 15 16 | 6 56 | 16 59 | 5 26 |
| F 7 | 4 59 | 20 35 | 5 12 | 15 38 | 0 50 | 4 55 | 0 38 | 25 44 | 2 25 | 14 52 | 0 51 | 20 27 | 1 48 | 20 29 | 0 6 | 6 2 | 1 6 | 24 28 | 3 47 | 14 57 | 15 17 | 6 53 | 16 59 | 5 25 |
| S 8 | 4 36 | 24 26 | 5 12 | 15 26 | 0 59 | 5 26 | 0 35 | 25 45 | 2 24 | 14 56 | 0 51 | 20 27 | 1 48 | 20 29 | 0 6 | 6 1 | 1 6 | 24 28 | 3 47 | 14 58 | 15 18 | 6 49 | 17 0 | 5 25 |
| S 9 | 4 12 | 26 49 | 4 55 | 15 12 | 1 7 | 5 56 | 0 33 | 25 45 | 2 23 | 14 59 | 0 51 | 20 27 | 1 48 | 20 30 | 0 6 | 6 0 | 1 6 | 24 28 | 3 47 | 14 58 | 15 19 | 6 46 | 17 0 | 5 25 |
| M10 | 3 49 | 27 40 | 4 23 | 14 56 | 1 15 | 6 27 | 0 30 | 25 45 | 2 23 | 15 3 | 0 50 | 20 27 | 1 48 | 20 30 | 0 6 | 5 59 | 1 6 | 24 28 | 3 47 | 14 59 | 15 20 | 6 43 | 17 1 | 5 24 |
| T 11 | 3 25 | 27 2 | 3 39 | 14 40 | 1 23 | 6 57 | 0 28 | 25 45 | 2 22 | 15 7 | 0 50 | 20 27 | 1 48 | 20 30 | 0 6 | 5 58 | 1 6 | 24 29 | 3 47 | 14 58 | 15 21 | 6 40 | 17 1 | 5 24 |
| W12 | 3 1 | 25 5 | 2 47 | 14 22 | 1 30 | 7 28 | 0 25 | 25 46 | 2 21 | 15 10 | 0 50 | 20 27 | 1 48 | 20 31 | 0 6 | 5 57 | 1 6 | 24 29 | 3 47 | 14 58 | 15 22 | 6 36 | 17 2 | 5 24 |
| T 13 | 2 38 | 22 1 | 1 48 | 14 2 | 1 37 | 7 58 | 0 22 | 25 46 | 2 20 | 15 14 | 0 50 | 20 27 | 1 48 | 20 31 | 0 6 | 5 57 | 1 6 | 24 29 | 3 47 | 14 57 | 15 23 | 6 33 | 17 3 | 5 23 |
| F 14 | 2 14 | 18 5 | 0 45 | 13 41 | 1 43 | 8 28 | 0 19 | 25 46 | 2 19 | 15 17 | 0 50 | 20 27 | 1 49 | 20 31 | 0 6 | 5 56 | 1 6 | 24 29 | 3 47 | 14 57 | 15 24 | 6 30 | 17 3 | 5 23 |
| S 15 | 1 51 | 13 28 | 0n20 | 13 19 | 1 49 | 8 58 | 0 17 | 25 45 | 2 19 | 15 21 | 0 50 | 20 27 | 1 49 | 20 32 | 0 6 | 5 55 | 1 6 | 24 29 | 3 47 | 14 57 | 15 25 | 6 27 | 17 4 | 5 23 |
| S 16 | 1 27 | 8 23 | 1 23 | 12 55 | 1 54 | 9 27 | 0 14 | 25 45 | 2 18 | 15 24 | 0 49 | 20 27 | 1 49 | 20 32 | 0 6 | 5 54 | 1 6 | 24 29 | 3 47 | 14 57 | 15 26 | 6 23 | 17 4 | 5 22 |
| M17 | 1 3 | 3 0 | 2 23 | 12 30 | 1 59 | 9 56 | 0 11 | 25 45 | 2 17 | 15 28 | 0 49 | 20 27 | 1 49 | 20 33 | 0 6 | 5 53 | 1 6 | 24 29 | 3 47 | 14 58 | 15 27 | 6 20 | 17 5 | 5 22 |
| T 18 | 0 39 | 2n30 | 3 17 | 12 4 | 2 3 | 10 26 | 0 8 | 25 45 | 2 16 | 15 32 | 0 49 | 20 27 | 1 49 | 20 33 | 0 6 | 5 52 | 1 6 | 24 29 | 3 47 | 15 0 | 15 28 | 6 17 | 17 5 | 5 22 |
| W19 | 0 16 | 7 56 | 4 2 | 11 36 | 2 7 | 10 55 | 0 5 | 25 44 | 2 16 | 15 35 | 0 49 | 20 27 | 1 49 | 20 33 | 0 6 | 5 51 | 1 6 | 24 29 | 3 47 | 15 2 | 15 29 | 6 14 | 17 6 | 5 21 |
| T 20 | 0n 8 | 13 9 | 4 37 | 11 7 | 2 11 | 11 23 | 0 2 | 25 44 | 2 15 | 15 39 | 0 49 | 20 27 | 1 49 | 20 34 | 0 6 | 5 50 | 1 6 | 24 30 | 3 47 | 15 4 | 15 30 | 6 10 | 17 7 | 5 21 |
| F 21 | 0 32 | 17 54 | 5 0 | 10 37 | 2 14 | 11 52 | 0n 1 | 25 43 | 2 14 | 15 43 | 0 48 | 20 27 | 1 49 | 20 34 | 0 6 | 5 50 | 1 6 | 24 30 | 3 47 | 15 7 | 15 31 | 6 7 | 17 7 | 5 21 |
| S 22 | 0 55 | 21 58 | 5 9 | 10 6 | 2 17 | 12 20 | 0 4 | 25 42 | 2 13 | 15 46 | 0 48 | 20 26 | 1 50 | 20 35 | 0 6 | 5 49 | 1 6 | 24 30 | 3 47 | 15 9 | 15 32 | 6 4 | 17 8 | 5 20 |
| S 23 | 1 19 | 25 6 | 5 3 | 9 33 | 2 19 | 12 47 | 0 7 | 25 41 | 2 13 | 15 50 | 0 48 | 20 26 | 1 50 | 20 35 | 0 6 | 5 48 | 1 6 | 24 30 | 3 47 | 15 11 | 15 33 | 6 1 | 17 8 | 5 20 |
| M24 | 1 42 | 27 2 | 4 43 | 8 59 | 2 21 | 13 15 | 0 10 | 25 41 | 2 12 | 15 54 | 0 48 | 20 26 | 1 50 | 20 36 | 0 6 | 5 47 | 1 6 | 24 30 | 3 47 | 15 12 | 15 34 | 5 57 | 17 9 | 5 20 |
| T 25 | 2 6 | 27 32 | 4 7 | 8 24 | 2 22 | 13 42 | 0 13 | 25 39 | 2 11 | 15 57 | 0 48 | 20 26 | 1 50 | 20 36 | 0 6 | 5 46 | 1 6 | 24 30 | 3 47 | 15 13 | 15 35 | 5 54 | 17 10 | 5 19 |
| W26 | 2 30 | 26 26 | 3 17 | 7 47 | 2 23 | 14 9 | 0 16 | 25 38 | 2 10 | 16 1 | 0 48 | 20 26 | 1 50 | 20 36 | 0 6 | 5 45 | 1 6 | 24 30 | 3 47 | 15 13 | 15 36 | 5 51 | 17 10 | 5 19 |
| T 27 | 2 53 | 23 44 | 2 15 | 7 10 | 2 23 | 14 36 | 0 19 | 25 37 | 2 10 | 16 5 | 0 47 | 20 26 | 1 50 | 20 37 | 0 6 | 5 44 | 1 6 | 24 30 | 3 47 | 15 13 | 15 37 | 5 47 | 17 11 | 5 19 |
| F 28 | 3 16 | 19 32 | 1 3 | 6 31 | 2 23 | 15 2 | 0 22 | 25 36 | 2 9 | 16 9 | 0 47 | 20 25 | 1 50 | 20 37 | 0 6 | 5 44 | 1 6 | 24 30 | 3 47 | 15 13 | 15 38 | 5 44 | 17 12 | 5 19 |
| S 29 | 3 40 | 14 5 | 0s15 | 5 51 | 2 22 | 15 28 | 0 25 | 25 34 | 2 8 | 16 12 | 0 47 | 20 25 | 1 50 | 20 38 | 0 6 | 5 43 | 1 6 | 24 30 | 3 47 | 15 12 | 15 39 | 5 41 | 17 12 | 5 18 |
| S 30 | 4 3 | 7 43 | 1 33 | 5 10 | 2 21 | 15 53 | 0 28 | 25 33 | 2 7 | 16 16 | 0 47 | 20 25 | 1 50 | 20 38 | 0 6 | 5 42 | 1 6 | 24 30 | 3 47 | 15 13 | 15 39 | 5 38 | 17 13 | 5 18 |
| M31 | 4n26 | 0n51 | 2s46 | 4s27 | 2s19 | 16n18 | 0n31 | 25n31 | 2n 7 | 16n20 | 0s47 | 20s25 | 1n51 | 20n39 | 0s 6 | 5s41 | 1s 6 | 24n30 | 3n47 | 15s14 | 15s40 | 5s34 | 17n14 | 5s18 |

Julian Day Number = 2339110.5, Delta T = 17.42 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'35, Lahiri = 19°33'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## APRIL 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 41 1 | 12♈10'30 | 6♎33 | 25♓54 | 14♉19 | 4♋50 | 17♉42 | 11°R45 | 2♊46 | 18♓14 | 26°R59 | 18°R39 | 17♒15 | 11♓ 2 | 13♊45 | T 1 |
| W 2 | 12 44 57 | 13° 9'28 | 21°35 | 27°40 | 15°32 | 5°19 | 17°55 | 11♐44 | 2°48 | 18°16 | 26♋59 | 18♒32 | 17°12 | 11° 8 | 13°48 | W 2 |
| T 3 | 12 48 54 | 14° 8'24 | 6♏23 | 29°27 | 16°44 | 5°48 | 18° 8 | 11°42 | 2°51 | 18°18 | 26°59 | 18°23 | 17° 9 | 11°15 | 13°51 | T 3 |
| F 4 | 12 52 50 | 15° 7'18 | 20°49 | 1♈16 | 17°56 | 6°18 | 18°21 | 11°41 | 2°53 | 18°20 | 26°59 | 18°14 | 17° 6 | 11°22 | 13°55 | F 4 |
| S 5 | 12 56 47 | 16° 6'11 | 4♐48 | 3° 6 | 19° 8 | 6°48 | 18°34 | 11°40 | 2°56 | 18°22 | 26°59 | 18° 7 | 17° 3 | 11°28 | 13°58 | S 5 |
| S 6 | 13 0 44 | 17° 5'01 | 18°18 | 4°57 | 20°20 | 7°18 | 18°47 | 11°38 | 2°59 | 18°24 | 26°59 | 18° 1 | 16°59 | 11°35 | 14° 2 | S 6 |
| M 7 | 13 4 40 | 18° 3'50 | 1♑20 | 6°51 | 21°32 | 7°48 | 19° 0 | 11°36 | 3° 1 | 18°26 | 26°59 | 17°57 | 16°56 | 11°42 | 14° 5 | M 7 |
| T 8 | 13 8 37 | 19° 2'37 | 13°57 | 8°45 | 22°43 | 8°18 | 19°13 | 11°35 | 3° 4 | 18°28 | 26°D59 | 17°D56 | 16°53 | 11°48 | 14° 9 | T 8 |
| W 9 | 13 12 33 | 20° 1'23 | 26°14 | 10°41 | 23°55 | 8°48 | 19°26 | 11°33 | 3° 7 | 18°30 | 26°59 | 17°56 | 16°50 | 11°55 | 14°13 | W 9 |
| T 10 | 13 16 30 | 21° 0'07 | 8♒15 | 12°39 | 25° 7 | 9°19 | 19°39 | 11°31 | 3°10 | 18°32 | 26°59 | 17°57 | 16°47 | 12° 2 | 14°17 | T 10 |
| F 11 | 13 20 26 | 21°58'49 | 20° 7 | 14°38 | 26°18 | 9°49 | 19°53 | 11°29 | 3°13 | 18°34 | 26°59 | 17°R57 | 16°44 | 12° 8 | 14°20 | F 11 |
| S 12 | 13 24 23 | 22°57'29 | 1♓54 | 16°39 | 27°30 | 10°20 | 20° 6 | 11°27 | 3°15 | 18°36 | 26°59 | 17°56 | 16°40 | 12°15 | 14°24 | S 12 |
| S 13 | 13 28 19 | 23°56'07 | 13°40 | 18°41 | 28°41 | 10°50 | 20°19 | 11°24 | 3°18 | 18°38 | 26°59 | 17°53 | 16°37 | 12°22 | 14°28 | S 13 |
| M14 | 13 32 16 | 24°54'44 | 25°31 | 20°44 | 29°52 | 11°21 | 20°33 | 11°22 | 3°21 | 18°40 | 26°59 | 17°47 | 16°34 | 12°28 | 14°32 | M14 |
| T 15 | 13 36 13 | 25°53'19 | 7♈28 | 22°48 | 1♊ 4 | 11°52 | 20°46 | 11°20 | 3°24 | 18°42 | 26°59 | 17°38 | 16°31 | 12°35 | 14°36 | T 15 |
| W16 | 13 40 9 | 26°51'52 | 19°34 | 24°54 | 2°15 | 12°23 | 21° 0 | 11°17 | 3°27 | 18°44 | 26°59 | 17°28 | 16°28 | 12°42 | 14°40 | W16 |
| T 17 | 13 44 6 | 27°50'23 | 1♉51 | 27° 1 | 3°26 | 12°55 | 21°13 | 11°15 | 3°30 | 18°46 | 27° 0 | 17°15 | 16°25 | 12°48 | 14°44 | T 17 |
| F 18 | 13 48 2 | 28°48'52 | 14°19 | 29° 8 | 4°37 | 13°26 | 21°27 | 11°12 | 3°33 | 18°48 | 27° 0 | 17° 3 | 16°21 | 12°55 | 14°49 | F 18 |
| S 19 | 13 51 59 | 29°47'19 | 26°57 | 1♉16 | 5°48 | 13°57 | 21°41 | 11° 9 | 3°36 | 18°50 | 27° 0 | 16°51 | 16°18 | 13° 2 | 14°53 | S 19 |
| S 20 | 13 55 55 | 0♉45'45 | 9♊48 | 3°24 | 6°59 | 14°29 | 21°54 | 11° 7 | 3°39 | 18°51 | 27° 0 | 16°40 | 16°15 | 13° 8 | 14°57 | S 20 |
| M21 | 13 59 52 | 1°44'08 | 22°50 | 5°33 | 8°10 | 15° 1 | 22° 8 | 11° 4 | 3°42 | 18°53 | 27° 1 | 16°32 | 16°12 | 13°15 | 15° 2 | M21 |
| T 22 | 14 3 48 | 2°42'30 | 6♋ 5 | 7°42 | 9°20 | 15°32 | 22°22 | 11° 1 | 3°46 | 18°55 | 27° 1 | 16°27 | 16° 9 | 13°22 | 15° 6 | T 22 |
| W23 | 14 7 45 | 3°40'49 | 19°33 | 9°50 | 10°31 | 16° 4 | 22°35 | 10°58 | 3°49 | 18°57 | 27° 1 | 16°25 | 16° 5 | 13°28 | 15°10 | W23 |
| T 24 | 14 11 42 | 4°39'06 | 3♌15 | 11°58 | 11°41 | 16°36 | 22°49 | 10°55 | 3°52 | 18°59 | 27° 2 | 16°D24 | 16° 2 | 13°35 | 15°15 | T 24 |
| F 25 | 14 15 38 | 5°37'21 | 17°13 | 14° 4 | 12°52 | 17° 8 | 23° 3 | 10°52 | 3°55 | 19° 0 | 27° 2 | 16°R25 | 15°59 | 13°42 | 15°19 | F 25 |
| S 26 | 14 19 35 | 6°35'34 | 1♍27 | 16°10 | 14° 2 | 17°40 | 23°17 | 10°48 | 3°58 | 19° 2 | 27° 3 | 16°24 | 15°56 | 13°48 | 15°24 | S 26 |
| S 27 | 14 23 31 | 7°33'45 | 15°55 | 18°14 | 15°12 | 18°13 | 23°31 | 10°45 | 4° 2 | 19° 4 | 27° 3 | 16°22 | 15°53 | 13°55 | 15°28 | S 27 |
| M28 | 14 27 28 | 8°31'54 | 0♎34 | 20°16 | 16°22 | 18°45 | 23°45 | 10°42 | 4° 5 | 19° 5 | 27° 4 | 16°17 | 15°50 | 14° 1 | 15°33 | M28 |
| T 29 | 14 31 24 | 9°30'01 | 15°19 | 22°16 | 17°32 | 19°17 | 23°59 | 10°38 | 4° 8 | 19° 7 | 27° 4 | 16° 9 | 15°46 | 14° 8 | 15°38 | T 29 |
| W30 | 14 35 21 | 10♉28'06 | 0♏ 2 | 24♉13 | 18♊42 | 19♋50 | 24♉12 | 10♐35 | 4♊11 | 19♓ 8 | 27♋ 5 | 15♒59 | 15♒43 | 14♓15 | 15♊42 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n49 | 6s 5 | 3s48 | 3s44 | 2s17 | 16n43 | 0n34 | 25n29 | 2n 6 | 16n24 | 0s47 | 20s24 | 1n51 | 20n39 | 0s 6 | 5s40 | 1s 6 | 24n30 | 3n47 | 15s16 | 15s41 | 5s31 | 17n14 | 5s17 |
| W 2 | 5 12 | 12 38 | 4 33 | 2 59 | 2 15 | 17 7 | 0 37 | 25 28 | 2 5 | 16 27 | 0 47 | 20 24 | 1 51 | 20 40 | 0 6 | 5 40 | 1 6 | 24 30 | 3 47 | 15 18 | 15 42 | 5 28 | 17 15 | 5 17 |
| T 3 | 5 35 | 18 22 | 4 59 | 2 14 | 2 11 | 17 31 | 0 41 | 25 26 | 2 5 | 16 31 | 0 46 | 20 24 | 1 51 | 20 40 | 0 6 | 5 39 | 1 6 | 24 30 | 3 47 | 15 21 | 15 43 | 5 25 | 17 15 | 5 17 |
| F 4 | 5 58 | 22 53 | 5 5 | 1 27 | 2 8 | 17 54 | 0 44 | 25 24 | 2 4 | 16 35 | 0 46 | 20 24 | 1 51 | 20 41 | 0 6 | 5 38 | 1 6 | 24 30 | 3 47 | 15 23 | 15 44 | 5 21 | 17 16 | 5 17 |
| S 5 | 6 21 | 25 56 | 4 53 | 0 39 | 2 4 | 18 17 | 0 47 | 25 21 | 2 3 | 16 38 | 0 46 | 20 23 | 1 51 | 20 41 | 0 6 | 5 37 | 1 6 | 24 30 | 3 47 | 15 26 | 15 45 | 5 18 | 17 17 | 5 16 |
| S 6 | 6 43 | 27 21 | 4 24 | 0n 9 | 1 59 | 18 40 | 0 50 | 25 19 | 2 2 | 16 42 | 0 46 | 20 23 | 1 51 | 20 42 | 0 6 | 5 36 | 1 6 | 24 30 | 3 47 | 15 27 | 15 46 | 5 15 | 17 17 | 5 16 |
| M 7 | 7 6 | 27 11 | 3 43 | 0 59 | 1 54 | 19 2 | 0 53 | 25 17 | 2 2 | 16 46 | 0 46 | 20 23 | 1 51 | 20 42 | 0 6 | 5 36 | 1 6 | 24 30 | 3 47 | 15 29 | 15 47 | 5 12 | 17 18 | 5 16 |
| T 8 | 7 28 | 25 36 | 2 52 | 1 49 | 1 48 | 19 23 | 0 56 | 25 14 | 2 1 | 16 50 | 0 46 | 20 22 | 1 51 | 20 43 | 0 6 | 5 35 | 1 6 | 24 30 | 3 46 | 15 29 | 15 48 | 5 8 | 17 19 | 5 16 |
| W 9 | 7 50 | 22 48 | 1 54 | 2 41 | 1 42 | 19 44 | 0 59 | 25 11 | 2 0 | 16 53 | 0 46 | 20 22 | 1 52 | 20 44 | 0 6 | 5 34 | 1 6 | 24 30 | 3 46 | 15 29 | 15 49 | 5 5 | 17 19 | 5 15 |
| T 10 | 8 13 | 19 4 | 0 52 | 3 33 | 1 35 | 20 5 | 1 2 | 25 9 | 2 0 | 16 57 | 0 45 | 20 22 | 1 52 | 20 44 | 0 6 | 5 33 | 1 6 | 24 30 | 3 46 | 15 29 | 15 50 | 5 2 | 17 20 | 5 15 |
| F 11 | 8 35 | 14 37 | 0n12 | 4 26 | 1 28 | 20 25 | 1 5 | 25 6 | 1 59 | 17 1 | 0 45 | 20 21 | 1 52 | 20 45 | 0 6 | 5 33 | 1 6 | 24 30 | 3 46 | 15 29 | 15 51 | 4 58 | 17 21 | 5 15 |
| S 12 | 8 56 | 9 40 | 1 14 | 5 19 | 1 20 | 20 44 | 1 8 | 25 3 | 1 58 | 17 4 | 0 45 | 20 21 | 1 52 | 20 45 | 0 6 | 5 32 | 1 6 | 24 30 | 3 46 | 15 29 | 15 52 | 4 55 | 17 21 | 5 15 |
| S 13 | 9 18 | 4 23 | 2 13 | 6 13 | 1 12 | 21 3 | 1 11 | 24 59 | 1 58 | 17 8 | 0 45 | 20 20 | 1 52 | 20 46 | 0 6 | 5 31 | 1 6 | 24 30 | 3 46 | 15 30 | 15 53 | 4 52 | 17 22 | 5 15 |
| M14 | 9 40 | 1n 4 | 3 6 | 7 7 | 1 4 | 21 22 | 1 14 | 24 56 | 1 57 | 17 12 | 0 45 | 20 20 | 1 52 | 20 46 | 0 6 | 5 30 | 1 6 | 24 30 | 3 46 | 15 32 | 15 54 | 4 49 | 17 23 | 5 14 |
| T 15 | 10 1 | 6 31 | 3 52 | 8 2 | 0 55 | 21 40 | 1 17 | 24 53 | 1 56 | 17 16 | 0 45 | 20 20 | 1 52 | 20 47 | 0 6 | 5 30 | 1 6 | 24 30 | 3 46 | 15 34 | 15 55 | 4 45 | 17 23 | 5 14 |
| W16 | 10 22 | 11 47 | 4 27 | 8 57 | 0 45 | 21 57 | 1 20 | 24 49 | 1 56 | 17 19 | 0 45 | 20 19 | 1 52 | 20 47 | 0 6 | 5 29 | 1 6 | 24 30 | 3 46 | 15 38 | 15 56 | 4 42 | 17 24 | 5 14 |
| T 17 | 10 43 | 16 41 | 4 51 | 9 52 | 0 36 | 22 14 | 1 23 | 24 46 | 1 55 | 17 23 | 0 44 | 20 19 | 1 52 | 20 48 | 0 6 | 5 28 | 1 6 | 24 30 | 3 46 | 15 41 | 15 57 | 4 39 | 17 25 | 5 14 |
| F 18 | 11 4 | 20 57 | 5 1 | 10 47 | 0 26 | 22 30 | 1 25 | 24 42 | 1 54 | 17 27 | 0 44 | 20 18 | 1 52 | 20 49 | 0 6 | 5 28 | 1 6 | 24 30 | 3 46 | 15 45 | 15 58 | 4 36 | 17 25 | 5 13 |
| S 19 | 11 25 | 24 19 | 4 57 | 11 42 | 0 15 | 22 45 | 1 28 | 24 38 | 1 54 | 17 30 | 0 44 | 20 18 | 1 52 | 20 49 | 0 5 | 5 27 | 1 6 | 24 29 | 3 46 | 15 49 | 15 59 | 4 32 | 17 26 | 5 13 |
| S 20 | 11 46 | 26 32 | 4 38 | 12 36 | 0 5 | 23 0 | 1 31 | 24 34 | 1 53 | 17 34 | 0 44 | 20 17 | 1 52 | 20 50 | 0 5 | 5 26 | 1 7 | 24 29 | 3 46 | 15 52 | 16 0 | 4 29 | 17 27 | 5 13 |
| M21 | 12 6 | 27 21 | 4 4 | 13 29 | 0n 6 | 23 15 | 1 34 | 24 30 | 1 52 | 17 38 | 0 44 | 20 17 | 1 53 | 20 50 | 0 5 | 5 25 | 1 7 | 24 29 | 3 46 | 15 54 | 16 1 | 4 26 | 17 27 | 5 13 |
| T 22 | 12 26 | 26 37 | 3 16 | 14 22 | 0 16 | 23 29 | 1 36 | 24 25 | 1 52 | 17 41 | 0 44 | 20 17 | 1 53 | 20 51 | 0 5 | 5 25 | 1 7 | 24 29 | 3 46 | 15 56 | 16 2 | 4 22 | 17 28 | 5 13 |
| W23 | 12 46 | 24 19 | 2 17 | 15 13 | 0 27 | 23 42 | 1 39 | 24 21 | 1 51 | 17 45 | 0 44 | 20 16 | 1 53 | 20 52 | 0 5 | 5 24 | 1 7 | 24 29 | 3 46 | 15 57 | 16 2 | 4 19 | 17 29 | 5 13 |
| T 24 | 13 6 | 20 35 | 1 9 | 16 3 | 0 38 | 23 54 | 1 41 | 24 16 | 1 50 | 17 48 | 0 44 | 20 16 | 1 53 | 20 52 | 0 5 | 5 23 | 1 7 | 24 29 | 3 46 | 15 57 | 16 3 | 4 16 | 17 29 | 5 12 |
| F 25 | 13 25 | 15 38 | 0s 4 | 16 52 | 0 48 | 24 6 | 1 44 | 24 11 | 1 50 | 17 52 | 0 43 | 20 15 | 1 53 | 20 53 | 0 5 | 5 23 | 1 7 | 24 29 | 3 46 | 15 57 | 16 4 | 4 13 | 17 30 | 5 12 |
| S 26 | 13 44 | 9 45 | 1 19 | 17 38 | 0 59 | 24 17 | 1 46 | 24 7 | 1 49 | 17 56 | 0 43 | 20 15 | 1 53 | 20 53 | 0 5 | 5 22 | 1 7 | 24 29 | 3 46 | 15 57 | 16 5 | 4 9 | 17 31 | 5 12 |
| S 27 | 14 3 | 3 16 | 2 29 | 18 23 | 1 9 | 24 28 | 1 49 | 24 2 | 1 48 | 17 59 | 0 43 | 20 14 | 1 53 | 20 54 | 0 5 | 5 22 | 1 7 | 24 29 | 3 46 | 15 58 | 16 6 | 4 6 | 17 31 | 5 12 |
| M28 | 14 22 | 3s27 | 3 31 | 19 6 | 1 18 | 24 38 | 1 51 | 23 57 | 1 48 | 18 3 | 0 43 | 20 14 | 1 53 | 20 55 | 0 5 | 5 21 | 1 7 | 24 28 | 3 46 | 15 59 | 16 7 | 4 3 | 17 32 | 5 12 |
| T 29 | 14 41 | 10 1 | 4 19 | 19 47 | 1 28 | 24 47 | 1 54 | 23 51 | 1 47 | 18 6 | 0 43 | 20 13 | 1 53 | 20 55 | 0 5 | 5 20 | 1 7 | 24 28 | 3 46 | 16 1 | 16 8 | 4 0 | 17 32 | 5 12 |
| W30 | 14n59 | 16s 1 | 4s49 | 20n25 | 1n36 | 24n55 | 1n56 | 23n46 | 1n46 | 18n10 | 0s43 | 20s12 | 1n53 | 20n56 | 0s 5 | 5s20 | 1s 7 | 24n28 | 3n46 | 16s 4 | 16s 9 | 3s56 | 17n33 | 5s11 |

Julian Day Number = 2339141.5, Delta T = 17.38 sec
Ecliptic obliquity = 23°28'53, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'40, Lahiri = 19°33'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## MAY 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 39 17 | 11♉26'09 | 14♏37 | 26♉ 8 | 19♊52 | 20♋22 | 24♉26 | 10°R31 | 4♊15 | 19♓10 | 27♋ 5 | 15°R48 | 15♒40 | 14♓21 | 15♊47 | T 1 |
| F 2 | 14 43 14 | 12°24'11 | 28°54 | 28° 1 | 21° 1 | 20°55 | 24°40 | 10♐28 | 4°18 | 19°12 | 27° 6 | 15♒36 | 15°37 | 14°28 | 15°52 | F 2 |
| S 3 | 14 47 11 | 13°22'11 | 12♐49 | 29°50 | 22°11 | 21°28 | 24°54 | 10°24 | 4°21 | 19°13 | 27° 6 | 15°26 | 15°34 | 14°35 | 15°57 | S 3 |
| S 4 | 14 51 7 | 14°20'10 | 26°19 | 1♊36 | 23°20 | 22° 0 | 25° 8 | 10°20 | 4°25 | 19°15 | 27° 7 | 15°17 | 15°30 | 14°41 | 16° 2 | S 4 |
| M 5 | 14 55 4 | 15°18'08 | 9♑23 | 3°19 | 24°30 | 22°33 | 25°22 | 10°17 | 4°28 | 19°16 | 27° 8 | 15°12 | 15°27 | 14°48 | 16° 7 | M 5 |
| T 6 | 14 59 0 | 16°16'04 | 22° 2 | 4°58 | 25°39 | 23° 6 | 25°36 | 10°13 | 4°31 | 19°18 | 27° 8 | 15° 8 | 15°24 | 14°55 | 16°11 | T 6 |
| W 7 | 15 2 57 | 17°13'58 | 4♒21 | 6°35 | 26°48 | 23°39 | 25°50 | 10° 9 | 4°35 | 19°19 | 27° 9 | 15° 7 | 15°21 | 15° 1 | 16°16 | W 7 |
| T 8 | 15 6 53 | 18°11'52 | 16°25 | 8° 7 | 27°57 | 24°12 | 26° 5 | 10° 5 | 4°38 | 19°20 | 27°10 | 15° 7 | 15°18 | 15° 8 | 16°21 | T 8 |
| F 9 | 15 10 50 | 19° 9'44 | 28°18 | 9°36 | 29° 6 | 24°45 | 26°19 | 10° 1 | 4°42 | 19°22 | 27°11 | 15° 7 | 15°15 | 15°15 | 16°26 | F 9 |
| S 10 | 15 14 46 | 20° 7'35 | 10♓ 7 | 11° 2 | 0♋14 | 25°19 | 26°33 | 9°57 | 4°45 | 19°23 | 27°11 | 15° 5 | 15°11 | 15°21 | 16°31 | S 10 |
| S 11 | 15 18 43 | 21° 5'25 | 21°56 | 12°23 | 1°23 | 25°52 | 26°47 | 9°53 | 4°49 | 19°24 | 27°12 | 15° 2 | 15° 8 | 15°28 | 16°37 | S 11 |
| M12 | 15 22 40 | 22° 3'13 | 3♈50 | 13°41 | 2°32 | 26°25 | 27° 1 | 9°49 | 4°52 | 19°26 | 27°13 | 14°56 | 15° 5 | 15°35 | 16°42 | M12 |
| T 13 | 15 26 36 | 23° 1'00 | 15°53 | 14°55 | 3°40 | 26°59 | 27°15 | 9°45 | 4°55 | 19°27 | 27°14 | 14°48 | 15° 2 | 15°41 | 16°47 | T 13 |
| W14 | 15 30 33 | 23°58'46 | 28° 9 | 16° 5 | 4°48 | 27°32 | 27°29 | 9°41 | 4°59 | 19°28 | 27°15 | 14°37 | 14°59 | 15°48 | 16°52 | W14 |
| T 15 | 15 34 29 | 24°56'31 | 10♉38 | 17°12 | 5°56 | 28° 6 | 27°43 | 9°36 | 5° 2 | 19°29 | 27°16 | 14°25 | 14°56 | 15°55 | 16°57 | T 15 |
| F 16 | 15 38 26 | 25°54'15 | 23°22 | 18°14 | 7° 4 | 28°40 | 27°57 | 9°32 | 5° 6 | 19°30 | 27°16 | 14°12 | 14°52 | 16° 1 | 17° 2 | F 16 |
| S 17 | 15 42 22 | 26°51'57 | 6♊20 | 19°12 | 8°12 | 29°13 | 28°11 | 9°28 | 5° 9 | 19°32 | 27°17 | 14° 0 | 14°49 | 16° 8 | 17° 8 | S 17 |
| S 18 | 15 46 19 | 27°49'38 | 19°31 | 20° 7 | 9°20 | 29°47 | 28°25 | 9°24 | 5°13 | 19°33 | 27°18 | 13°50 | 14°46 | 16°15 | 17°13 | S 18 |
| M19 | 15 50 15 | 28°47'18 | 2♋54 | 20°57 | 10°27 | 0♌21 | 28°40 | 9°19 | 5°16 | 19°34 | 27°19 | 13°42 | 14°43 | 16°21 | 17°18 | M19 |
| T 20 | 15 54 12 | 29°44'56 | 16°28 | 21°42 | 11°34 | 0°55 | 28°54 | 9°15 | 5°20 | 19°35 | 27°20 | 13°36 | 14°40 | 16°28 | 17°23 | T 20 |
| W21 | 15 58 9 | 0♊42'33 | 0♌10 | 22°24 | 12°42 | 1°29 | 29° 8 | 9°11 | 5°24 | 19°36 | 27°21 | 13°34 | 14°36 | 16°35 | 17°29 | W21 |
| T 22 | 16 2 5 | 1°40'08 | 14° 1 | 23° 1 | 13°49 | 2° 3 | 29°22 | 9° 6 | 5°27 | 19°37 | 27°22 | 13°D33 | 14°33 | 16°41 | 17°34 | T 22 |
| F 23 | 16 6 2 | 2°37'42 | 28° 1 | 23°33 | 14°56 | 2°37 | 29°36 | 9° 2 | 5°31 | 19°38 | 27°23 | 13°R34 | 14°30 | 16°48 | 17°39 | F 23 |
| S 24 | 16 9 58 | 3°35'14 | 12♍ 8 | 24° 1 | 16° 2 | 3°11 | 29°50 | 8°57 | 5°34 | 19°39 | 27°25 | 13°33 | 14°27 | 16°55 | 17°45 | S 24 |
| S 25 | 16 13 55 | 4°32'45 | 26°22 | 24°25 | 17° 9 | 3°46 | 0♊ 4 | 8°53 | 5°38 | 19°40 | 27°26 | 13°32 | 14°24 | 17° 1 | 17°50 | S 25 |
| M26 | 16 17 51 | 5°30'15 | 10♎41 | 24°44 | 18°15 | 4°20 | 0°18 | 8°48 | 5°41 | 19°41 | 27°27 | 13°28 | 14°21 | 17° 8 | 17°56 | M26 |
| T 27 | 16 21 48 | 6°27'43 | 25° 1 | 24°58 | 19°21 | 4°54 | 0°32 | 8°44 | 5°45 | 19°41 | 27°28 | 13°21 | 14°17 | 17°15 | 18° 1 | T 27 |
| W28 | 16 25 44 | 7°25'10 | 9♏19 | 25° 7 | 20°27 | 5°29 | 0°46 | 8°40 | 5°48 | 19°42 | 27°29 | 13°13 | 14°14 | 17°21 | 18° 6 | W28 |
| T 29 | 16 29 41 | 8°22'36 | 23°29 | 25°12 | 21°33 | 6° 3 | 1° 0 | 8°35 | 5°52 | 19°43 | 27°30 | 13° 3 | 14°11 | 17°28 | 18°12 | T 29 |
| F 30 | 16 33 38 | 9°20'01 | 7♐25 | 25°R12 | 22°38 | 6°38 | 1°14 | 8°31 | 5°55 | 19°44 | 27°31 | 12°53 | 14° 8 | 17°35 | 18°17 | F 30 |
| S 31 | 16 37 34 | 10♊17'25 | 21♐ 4 | 25♊ 8 | 23♋44 | 7♌12 | 1♊28 | 8♐26 | 5♊59 | 19♓44 | 27♋33 | 12♒44 | 14♒ 5 | 17♓41 | 18♊23 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n17 | 21s 2 | 5s 0 | 21n 1 | 1n45 | 25n 3 | 1n58 | 23n40 | 1n46 | 18n13 | 0s43 | 20s12 | 1n53 | 20n57 | 0s 5 | 5s19 | 1s 7 | 24n28 | 3n46 | 16s 8 | 16s10 | 3s53 | 17n34 | 5s11 |
| F 2 | 15 35 | 24 42 | 4 53 | 21 34 | 1 52 | 25 10 | 2 0 | 23 35 | 1 45 | 18 17 | 0 43 | 20 11 | 1 53 | 20 57 | 0 5 | 5 19 | 1 7 | 24 28 | 3 46 | 16 11 | 16 11 | 3 50 | 17 34 | 5 11 |
| S 3 | 15 53 | 26 48 | 4 27 | 22 5 | 1 59 | 25 17 | 2 2 | 23 29 | 1 44 | 18 20 | 0 43 | 20 11 | 1 53 | 20 58 | 0 5 | 5 18 | 1 7 | 24 28 | 3 46 | 16 14 | 16 12 | 3 46 | 17 35 | 5 11 |
| S 4 | 16 10 | 27 13 | 3 48 | 22 34 | 2 5 | 25 23 | 2 4 | 23 23 | 1 44 | 18 24 | 0 43 | 20 10 | 1 53 | 20 58 | 0 5 | 5 18 | 1 7 | 24 28 | 3 46 | 16 17 | 16 13 | 3 43 | 17 36 | 5 11 |
| M 5 | 16 27 | 26 5 | 2 57 | 22 59 | 2 10 | 25 28 | 2 6 | 23 17 | 1 43 | 18 27 | 0 42 | 20 10 | 1 53 | 20 59 | 0 5 | 5 17 | 1 7 | 24 27 | 3 46 | 16 18 | 16 14 | 3 40 | 17 36 | 5 11 |
| T 6 | 16 44 | 23 38 | 1 59 | 23 23 | 2 15 | 25 32 | 2 8 | 23 11 | 1 42 | 18 31 | 0 42 | 20 9 | 1 53 | 21 0 | 0 5 | 5 16 | 1 7 | 24 27 | 3 46 | 16 19 | 16 15 | 3 37 | 17 37 | 5 11 |
| W 7 | 17 0 | 20 7 | 0 57 | 23 44 | 2 19 | 25 36 | 2 10 | 23 5 | 1 42 | 18 34 | 0 42 | 20 9 | 1 53 | 21 0 | 0 5 | 5 16 | 1 7 | 24 27 | 3 46 | 16 20 | 16 16 | 3 33 | 17 37 | 5 11 |
| T 8 | 17 17 | 15 50 | 0n 7 | 24 2 | 2 22 | 25 39 | 2 11 | 22 58 | 1 41 | 18 37 | 0 42 | 20 8 | 1 53 | 21 1 | 0 5 | 5 15 | 1 7 | 24 27 | 3 46 | 16 20 | 16 17 | 3 30 | 17 38 | 5 10 |
| F 9 | 17 33 | 11 0 | 1 9 | 24 18 | 2 24 | 25 42 | 2 13 | 22 52 | 1 41 | 18 41 | 0 42 | 20 7 | 1 53 | 21 2 | 0 5 | 5 15 | 1 7 | 24 27 | 3 46 | 16 20 | 16 18 | 3 27 | 17 39 | 5 10 |
| S 10 | 17 48 | 5 49 | 2 8 | 24 32 | 2 25 | 25 43 | 2 15 | 22 45 | 1 40 | 18 44 | 0 42 | 20 7 | 1 53 | 21 2 | 0 5 | 5 14 | 1 7 | 24 27 | 3 46 | 16 20 | 16 18 | 3 23 | 17 39 | 5 10 |
| S 11 | 18 4 | 0 25 | 3 2 | 24 44 | 2 26 | 25 44 | 2 16 | 22 38 | 1 39 | 18 48 | 0 42 | 20 6 | 1 53 | 21 3 | 0 5 | 5 14 | 1 7 | 24 26 | 3 46 | 16 21 | 16 19 | 3 20 | 17 40 | 5 10 |
| M12 | 18 19 | 5n 0 | 3 48 | 24 53 | 2 25 | 25 45 | 2 17 | 22 31 | 1 39 | 18 51 | 0 42 | 20 6 | 1 53 | 21 4 | 0 5 | 5 13 | 1 7 | 24 26 | 3 46 | 16 23 | 16 20 | 3 17 | 17 40 | 5 10 |
| T 13 | 18 34 | 10 19 | 4 24 | 25 1 | 2 24 | 25 44 | 2 19 | 22 24 | 1 38 | 18 54 | 0 42 | 20 5 | 1 53 | 21 4 | 0 5 | 5 13 | 1 7 | 24 26 | 3 46 | 16 25 | 16 21 | 3 14 | 17 41 | 5 10 |
| W14 | 18 48 | 15 19 | 4 48 | 25 6 | 2 22 | 25 43 | 2 20 | 22 17 | 1 37 | 18 57 | 0 42 | 20 4 | 1 53 | 21 5 | 0 5 | 5 13 | 1 7 | 24 26 | 3 45 | 16 28 | 16 22 | 3 10 | 17 41 | 5 10 |
| T 15 | 19 2 | 19 47 | 5 0 | 25 9 | 2 18 | 25 42 | 2 21 | 22 10 | 1 37 | 19 1 | 0 42 | 20 4 | 1 53 | 21 5 | 0 5 | 5 12 | 1 7 | 24 26 | 3 45 | 16 32 | 16 23 | 3 7 | 17 42 | 5 10 |
| F 16 | 19 16 | 23 26 | 4 57 | 25 11 | 2 14 | 25 39 | 2 22 | 22 2 | 1 36 | 19 4 | 0 41 | 20 3 | 1 53 | 21 6 | 0 5 | 5 12 | 1 8 | 24 25 | 3 45 | 16 36 | 16 24 | 3 4 | 17 42 | 5 10 |
| S 17 | 19 29 | 25 58 | 4 38 | 25 11 | 2 9 | 25 36 | 2 23 | 21 54 | 1 36 | 19 7 | 0 41 | 20 3 | 1 53 | 21 7 | 0 5 | 5 11 | 1 8 | 24 25 | 3 45 | 16 39 | 16 25 | 3 1 | 17 43 | 5 10 |
| S 18 | 19 43 | 27 8 | 4 5 | 25 10 | 2 3 | 25 32 | 2 24 | 21 47 | 1 35 | 19 10 | 0 41 | 20 2 | 1 53 | 21 7 | 0 5 | 5 11 | 1 8 | 24 25 | 3 45 | 16 42 | 16 26 | 2 57 | 17 44 | 5 10 |
| M19 | 19 55 | 26 45 | 3 18 | 25 6 | 1 56 | 25 28 | 2 24 | 21 39 | 1 34 | 19 14 | 0 41 | 20 1 | 1 53 | 21 8 | 0 5 | 5 11 | 1 8 | 24 25 | 3 45 | 16 45 | 16 27 | 2 54 | 17 44 | 5 10 |
| T 20 | 20 8 | 24 45 | 2 18 | 25 1 | 1 48 | 25 23 | 2 25 | 21 31 | 1 34 | 19 17 | 0 41 | 20 1 | 1 53 | 21 9 | 0 5 | 5 10 | 1 8 | 24 25 | 3 45 | 16 46 | 16 28 | 2 51 | 17 45 | 5 10 |
| W21 | 20 20 | 21 18 | 1 10 | 24 55 | 1 40 | 25 17 | 2 26 | 21 23 | 1 33 | 19 20 | 0 41 | 20 0 | 1 53 | 21 9 | 0 5 | 5 10 | 1 8 | 24 24 | 3 45 | 16 47 | 16 29 | 2 47 | 17 45 | 5 10 |
| T 22 | 20 32 | 16 37 | 0s 2 | 24 48 | 1 30 | 25 11 | 2 26 | 21 14 | 1 33 | 19 23 | 0 41 | 19 59 | 1 53 | 21 10 | 0 5 | 5 9 | 1 8 | 24 24 | 3 45 | 16 47 | 16 30 | 2 44 | 17 46 | 5 10 |
| F 23 | 20 43 | 11 0 | 1 16 | 24 39 | 1 20 | 25 4 | 2 26 | 21 6 | 1 32 | 19 26 | 0 41 | 19 59 | 1 53 | 21 11 | 0 5 | 5 9 | 1 8 | 24 24 | 3 45 | 16 47 | 16 31 | 2 41 | 17 46 | 5 10 |
| S 24 | 20 54 | 4 47 | 2 26 | 24 29 | 1 8 | 24 56 | 2 26 | 20 57 | 1 31 | 19 29 | 0 41 | 19 58 | 1 53 | 21 11 | 0 5 | 5 9 | 1 8 | 24 24 | 3 45 | 16 47 | 16 32 | 2 38 | 17 47 | 5 10 |
| S 25 | 21 5 | 1s43 | 3 27 | 24 18 | 0 56 | 24 48 | 2 27 | 20 49 | 1 31 | 19 32 | 0 41 | 19 58 | 1 53 | 21 12 | 0 5 | 5 8 | 1 8 | 24 24 | 3 45 | 16 47 | 16 32 | 2 34 | 17 47 | 5 10 |
| M26 | 21 16 | 8 9 | 4 15 | 24 5 | 0 43 | 24 39 | 2 27 | 20 40 | 1 30 | 19 35 | 0 41 | 19 57 | 1 53 | 21 12 | 0 5 | 5 8 | 1 8 | 24 23 | 3 45 | 16 49 | 16 33 | 2 31 | 17 48 | 5 10 |
| T 27 | 21 26 | 14 10 | 4 48 | 23 52 | 0 29 | 24 30 | 2 26 | 20 31 | 1 30 | 19 38 | 0 41 | 19 56 | 1 53 | 21 13 | 0 5 | 5 8 | 1 8 | 24 23 | 3 45 | 16 50 | 16 34 | 2 28 | 17 48 | 5 10 |
| W28 | 21 35 | 19 23 | 5 2 | 23 38 | 0 15 | 24 20 | 2 26 | 20 22 | 1 29 | 19 41 | 0 41 | 19 56 | 1 53 | 21 14 | 0 5 | 5 8 | 1 8 | 24 23 | 3 45 | 16 53 | 16 35 | 2 25 | 17 48 | 5 10 |
| T 29 | 21 44 | 23 29 | 4 58 | 23 23 | 0s 1 | 24 9 | 2 26 | 20 13 | 1 28 | 19 44 | 0 40 | 19 55 | 1 53 | 21 14 | 0 5 | 5 7 | 1 8 | 24 23 | 3 45 | 16 56 | 16 36 | 2 21 | 17 49 | 5 10 |
| F 30 | 21 53 | 26 7 | 4 36 | 23 7 | 0 16 | 23 58 | 2 25 | 20 4 | 1 28 | 19 47 | 0 40 | 19 54 | 1 53 | 21 15 | 0 5 | 5 7 | 1 8 | 24 22 | 3 45 | 16 59 | 16 37 | 2 18 | 17 49 | 5 10 |
| S 31 | 22n 2 | 27s 9 | 3s58 | 22n51 | 0s33 | 23n46 | 2n25 | 19n54 | 1n27 | 19n50 | 0s40 | 19s54 | 1n53 | 21n16 | 0s 5 | 5s 7 | 1s 8 | 24n22 | 3n45 | 17s 1 | 16s38 | 2s15 | 17n50 | 5s10 |

Julian Day Number = 2339171.5, Delta T = 17.34 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'44, Lahiri = 19°33'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## JUNE 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 41 31 | 11♊14'48 | 4♉22 | 25°R 0 | 24♋49 | 7♌47 | 1♊42 | 8°R22 | 6♊ 2 | 19♓45 | 27♋34 | 12°R36 | 14♒ 2 | 17♓48 | 18♊28 | S 1 |
| M 2 | 16 45 27 | 12°12'10 | 17°20 | 24♊47 | 25°54 | 8°22 | 1°56 | 8♐17 | 6° 6 | 19°46 | 27°35 | 12♒31 | 13°58 | 17°55 | 18°34 | M 2 |
| T 3 | 16 49 24 | 13° 9'32 | 29°56 | 24°30 | 26°59 | 8°56 | 2°10 | 8°13 | 6° 9 | 19°46 | 27°36 | 12°28 | 13°55 | 18° 1 | 18°39 | T 3 |
| W 4 | 16 53 20 | 14° 6'53 | 12♒14 | 24°10 | 28° 3 | 9°31 | 2°24 | 8° 9 | 6°13 | 19°47 | 27°38 | 12°D27 | 13°52 | 18° 8 | 18°45 | W 4 |
| T 5 | 16 57 17 | 15° 4'13 | 24°19 | 23°46 | 29° 7 | 10° 6 | 2°38 | 8° 4 | 6°16 | 19°48 | 27°39 | 12°28 | 13°49 | 18°15 | 18°50 | T 5 |
| F 6 | 17 1 14 | 16° 1'33 | 6♓13 | 23°20 | 0♌11 | 10°41 | 2°52 | 8° 0 | 6°20 | 19°48 | 27°40 | 12°29 | 13°46 | 18°21 | 18°56 | F 6 |
| S 7 | 17 5 10 | 16°58'53 | 18° 4 | 22°51 | 1°15 | 11°16 | 3° 6 | 7°55 | 6°23 | 19°49 | 27°42 | 12°R29 | 13°42 | 18°28 | 19° 1 | S 7 |
| S 8 | 17 9 7 | 17°56'12 | 29°55 | 22°19 | 2°19 | 11°51 | 3°20 | 7°51 | 6°27 | 19°49 | 27°43 | 12°28 | 13°39 | 18°35 | 19° 7 | S 8 |
| M 9 | 17 13 3 | 18°53'30 | 11♈52 | 21°47 | 3°22 | 12°26 | 3°33 | 7°47 | 6°30 | 19°50 | 27°44 | 12°26 | 13°36 | 18°41 | 19°12 | M 9 |
| T 10 | 17 17 0 | 19°50'48 | 23°59 | 21°13 | 4°25 | 13° 1 | 3°47 | 7°42 | 6°34 | 19°50 | 27°46 | 12°21 | 13°33 | 18°48 | 19°18 | T 10 |
| W11 | 17 20 56 | 20°48'06 | 6♉21 | 20°39 | 5°28 | 13°36 | 4° 1 | 7°38 | 6°37 | 19°50 | 27°47 | 12°14 | 13°30 | 18°55 | 19°23 | W11 |
| T 12 | 17 24 53 | 21°45'24 | 18°59 | 20° 5 | 6°31 | 14°12 | 4°15 | 7°34 | 6°41 | 19°51 | 27°48 | 12° 6 | 13°27 | 19° 2 | 19°29 | T 12 |
| F 13 | 17 28 49 | 22°42'41 | 1♊56 | 19°32 | 7°33 | 14°47 | 4°29 | 7°30 | 6°44 | 19°51 | 27°50 | 11°58 | 13°23 | 19° 8 | 19°34 | F 13 |
| S 14 | 17 32 46 | 23°39'58 | 15°12 | 19° 1 | 8°35 | 15°22 | 4°42 | 7°25 | 6°48 | 19°51 | 27°51 | 11°50 | 13°20 | 19°15 | 19°40 | S 14 |
| S 15 | 17 36 43 | 24°37'14 | 28°44 | 18°31 | 9°36 | 15°58 | 4°56 | 7°21 | 6°51 | 19°51 | 27°53 | 11°43 | 13°17 | 19°22 | 19°45 | S 15 |
| M16 | 17 40 39 | 25°34'30 | 12♋31 | 18° 3 | 10°38 | 16°33 | 5° 9 | 7°17 | 6°54 | 19°52 | 27°54 | 11°37 | 13°14 | 19°28 | 19°51 | M16 |
| T 17 | 17 44 36 | 26°31'45 | 26°29 | 17°39 | 11°39 | 17° 9 | 5°23 | 7°13 | 6°58 | 19°52 | 27°56 | 11°35 | 13°11 | 19°35 | 19°56 | T 17 |
| W18 | 17 48 32 | 27°29'00 | 10♌35 | 17°18 | 12°40 | 17°44 | 5°37 | 7° 9 | 7° 1 | 19°52 | 27°57 | 11°D34 | 13° 8 | 19°42 | 20° 2 | W18 |
| T 19 | 17 52 29 | 28°26'14 | 24°45 | 17° 0 | 13°40 | 18°20 | 5°50 | 7° 5 | 7° 5 | 19°52 | 27°59 | 11°34 | 13° 4 | 19°48 | 20° 7 | T 19 |
| F 20 | 17 56 25 | 29°23'28 | 8♍57 | 16°46 | 14°40 | 18°55 | 6° 4 | 7° 1 | 7° 8 | 19°52 | 28° 0 | 11°35 | 13° 1 | 19°55 | 20°13 | F 20 |
| S 21 | 18 0 22 | 0♋20'41 | 23°10 | 16°37 | 15°40 | 19°31 | 6°17 | 6°57 | 7°11 | 19°52 | 28° 2 | 11°36 | 12°58 | 20° 2 | 20°18 | S 21 |
| S 22 | 18 4 18 | 1°17'53 | 7♎20 | 16°32 | 16°39 | 20° 7 | 6°30 | 6°53 | 7°14 | 19°R52 | 28° 3 | 11°R36 | 12°55 | 20° 8 | 20°24 | S 22 |
| M23 | 18 8 15 | 2°15'05 | 21°27 | 16°D31 | 17°38 | 20°42 | 6°44 | 6°50 | 7°18 | 19°52 | 28° 5 | 11°35 | 12°52 | 20°15 | 20°29 | M23 |
| T 24 | 18 12 12 | 3°12'16 | 5♏28 | 16°36 | 18°36 | 21°18 | 6°57 | 6°46 | 7°21 | 19°52 | 28° 6 | 11°32 | 12°48 | 20°22 | 20°35 | T 24 |
| W25 | 18 16 8 | 4° 9'27 | 19°21 | 16°45 | 19°35 | 21°54 | 7°10 | 6°42 | 7°24 | 19°52 | 28° 8 | 11°27 | 12°45 | 20°28 | 20°40 | W25 |
| T 26 | 18 20 5 | 5° 6'38 | 3♐ 4 | 16°59 | 20°32 | 22°30 | 7°24 | 6°39 | 7°28 | 19°52 | 28° 9 | 11°22 | 12°42 | 20°35 | 20°46 | T 26 |
| F 27 | 18 24 1 | 6° 3'49 | 16°34 | 17°18 | 21°30 | 23° 6 | 7°37 | 6°35 | 7°31 | 19°52 | 28°11 | 11°16 | 12°39 | 20°42 | 20°51 | F 27 |
| S 28 | 18 27 58 | 7° 0'59 | 29°50 | 17°42 | 22°26 | 23°42 | 7°50 | 6°31 | 7°34 | 19°51 | 28°13 | 11°11 | 12°36 | 20°48 | 20°57 | S 28 |
| S 29 | 18 31 54 | 7°58'10 | 12♑50 | 18°11 | 23°23 | 24°18 | 8° 3 | 6°28 | 7°37 | 19°51 | 28°14 | 11° 7 | 12°33 | 20°55 | 21° 2 | S 29 |
| M30 | 18 35 51 | 8♋55'20 | 25♑33 | 18♊45 | 24♌18 | 24♌54 | 8♊16 | 6♐25 | 7♊40 | 19♓51 | 28♋16 | 11♒ 4 | 12♒29 | 21♓ 2 | 21♊ 7 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n10 | 26s33 | 3s 9 | 22n34 | 0s49 | 23n34 | 2n24 | 19n45 | 1n27 | 19n53 | 0s40 | 19s53 | 1n53 | 21n16 | 0s 5 | 5s 7 | 1s 8 | 24n22 | 3n45 | 17s 3 | 16s39 | 2s11 | 17n50 | 5s10 |
| M 2 | 22 18 | 24 30 | 2 10 | 22 16 | 1 6 | 23 21 | 2 23 | 19 35 | 1 26 | 19 56 | 0 40 | 19 53 | 1 52 | 21 17 | 0 5 | 5 6 | 1 8 | 24 22 | 3 45 | 17 5 | 16 40 | 2 8 | 17 51 | 5 10 |
| T 3 | 22 25 | 21 17 | 1 7 | 21 59 | 1 23 | 23 7 | 2 22 | 19 26 | 1 25 | 19 59 | 0 40 | 19 52 | 1 52 | 21 17 | 0 5 | 5 6 | 1 8 | 24 21 | 3 45 | 17 6 | 16 41 | 2 5 | 17 51 | 5 10 |
| W 4 | 22 32 | 17 10 | 0 1 | 21 41 | 1 41 | 22 53 | 2 21 | 19 16 | 1 25 | 20 1 | 0 40 | 19 51 | 1 52 | 21 18 | 0 5 | 5 6 | 1 8 | 24 21 | 3 45 | 17 6 | 16 42 | 2 2 | 17 51 | 5 10 |
| T 5 | 22 39 | 12 27 | 1n 3 | 21 22 | 1 58 | 22 39 | 2 20 | 19 6 | 1 24 | 20 4 | 0 40 | 19 51 | 1 52 | 21 19 | 0 5 | 5 6 | 1 8 | 24 21 | 3 45 | 17 6 | 16 43 | 1 58 | 17 52 | 5 10 |
| F 6 | 22 45 | 7 19 | 2 4 | 21 4 | 2 15 | 22 24 | 2 18 | 18 56 | 1 24 | 20 7 | 0 40 | 19 50 | 1 52 | 21 19 | 0 5 | 5 6 | 1 8 | 24 21 | 3 45 | 17 5 | 16 43 | 1 55 | 17 52 | 5 10 |
| S 7 | 22 51 | 1 59 | 2 59 | 20 46 | 2 31 | 22 8 | 2 17 | 18 45 | 1 23 | 20 10 | 0 40 | 19 49 | 1 52 | 21 20 | 0 5 | 5 6 | 1 9 | 24 20 | 3 45 | 17 5 | 16 44 | 1 52 | 17 53 | 5 10 |
| S 8 | 22 56 | 3n26 | 3 47 | 20 29 | 2 47 | 21 52 | 2 15 | 18 35 | 1 22 | 20 12 | 0 40 | 19 49 | 1 52 | 21 20 | 0 5 | 5 5 | 1 9 | 24 20 | 3 45 | 17 5 | 16 45 | 1 49 | 17 53 | 5 10 |
| M 9 | 23 1 | 8 45 | 4 25 | 20 12 | 3 2 | 21 36 | 2 13 | 18 25 | 1 22 | 20 15 | 0 40 | 19 48 | 1 52 | 21 21 | 0 5 | 5 5 | 1 9 | 24 20 | 3 45 | 17 6 | 16 46 | 1 45 | 17 53 | 5 10 |
| T 10 | 23 6 | 13 50 | 4 51 | 19 55 | 3 16 | 21 19 | 2 12 | 18 14 | 1 21 | 20 18 | 0 40 | 19 48 | 1 52 | 21 22 | 0 5 | 5 5 | 1 9 | 24 19 | 3 45 | 17 8 | 16 47 | 1 42 | 17 54 | 5 10 |
| W11 | 23 10 | 18 27 | 5 5 | 19 40 | 3 30 | 21 2 | 2 9 | 18 3 | 1 21 | 20 20 | 0 40 | 19 47 | 1 52 | 21 22 | 0 5 | 5 5 | 1 9 | 24 19 | 3 45 | 17 9 | 16 48 | 1 39 | 17 54 | 5 10 |
| T 12 | 23 13 | 22 22 | 5 5 | 19 25 | 3 42 | 20 44 | 2 7 | 17 53 | 1 20 | 20 23 | 0 40 | 19 47 | 1 52 | 21 23 | 0 5 | 5 5 | 1 9 | 24 19 | 3 45 | 17 12 | 16 49 | 1 35 | 17 54 | 5 10 |
| F 13 | 23 17 | 25 18 | 4 49 | 19 12 | 3 53 | 20 26 | 2 5 | 17 42 | 1 19 | 20 26 | 0 40 | 19 46 | 1 51 | 21 23 | 0 5 | 5 5 | 1 9 | 24 19 | 3 45 | 17 14 | 16 50 | 1 32 | 17 55 | 5 10 |
| S 14 | 23 20 | 26 55 | 4 17 | 18 59 | 4 3 | 20 7 | 2 2 | 17 31 | 1 19 | 20 28 | 0 39 | 19 45 | 1 51 | 21 24 | 0 5 | 5 5 | 1 9 | 24 18 | 3 45 | 17 16 | 16 51 | 1 29 | 17 55 | 5 11 |
| S 15 | 23 22 | 26 59 | 3 30 | 18 49 | 4 11 | 19 48 | 2 0 | 17 20 | 1 18 | 20 31 | 0 39 | 19 45 | 1 51 | 21 25 | 0 5 | 5 5 | 1 9 | 24 18 | 3 45 | 17 18 | 16 52 | 1 26 | 17 55 | 5 11 |
| M16 | 23 24 | 25 23 | 2 30 | 18 39 | 4 18 | 19 29 | 1 57 | 17 8 | 1 18 | 20 33 | 0 39 | 19 44 | 1 51 | 21 25 | 0 5 | 5 5 | 1 9 | 24 18 | 3 45 | 17 20 | 16 53 | 1 22 | 17 56 | 5 11 |
| T 17 | 23 26 | 22 13 | 1 21 | 18 32 | 4 24 | 19 9 | 1 54 | 16 57 | 1 17 | 20 36 | 0 39 | 19 44 | 1 51 | 21 26 | 0 5 | 5 5 | 1 9 | 24 17 | 3 45 | 17 20 | 16 53 | 1 19 | 17 56 | 5 11 |
| W18 | 23 27 | 17 42 | 0 5 | 18 26 | 4 28 | 18 49 | 1 51 | 16 45 | 1 17 | 20 38 | 0 39 | 19 43 | 1 51 | 21 26 | 0 5 | 5 5 | 1 9 | 24 17 | 3 45 | 17 21 | 16 54 | 1 16 | 17 56 | 5 11 |
| T 19 | 23 28 | 12 11 | 1s11 | 18 21 | 4 31 | 18 28 | 1 48 | 16 34 | 1 16 | 20 40 | 0 39 | 19 43 | 1 51 | 21 27 | 0 5 | 5 5 | 1 9 | 24 17 | 3 45 | 17 21 | 16 55 | 1 13 | 17 56 | 5 11 |
| F 20 | 23 29 | 6 1 | 2 23 | 18 19 | 4 32 | 18 8 | 1 44 | 16 22 | 1 15 | 20 43 | 0 39 | 19 42 | 1 51 | 21 27 | 0 5 | 5 5 | 1 9 | 24 17 | 3 45 | 17 20 | 16 56 | 1 9 | 17 57 | 5 11 |
| S 21 | 23 29 | 0s26 | 3 26 | 18 18 | 4 32 | 17 46 | 1 41 | 16 11 | 1 15 | 20 45 | 0 39 | 19 42 | 1 50 | 21 28 | 0 5 | 5 5 | 1 9 | 24 16 | 3 45 | 17 20 | 16 57 | 1 6 | 17 57 | 5 12 |
| S 22 | 23 28 | 6 51 | 4 17 | 18 19 | 4 30 | 17 25 | 1 37 | 15 59 | 1 14 | 20 47 | 0 39 | 19 41 | 1 50 | 21 29 | 0 5 | 5 5 | 1 9 | 24 16 | 3 45 | 17 20 | 16 58 | 1 3 | 17 57 | 5 12 |
| M23 | 23 28 | 12 53 | 4 52 | 18 21 | 4 28 | 17 3 | 1 33 | 15 47 | 1 14 | 20 50 | 0 39 | 19 41 | 1 50 | 21 29 | 0 5 | 5 5 | 1 9 | 24 16 | 3 46 | 17 20 | 16 59 | 1 0 | 17 57 | 5 12 |
| T 24 | 23 27 | 18 13 | 5 9 | 18 26 | 4 24 | 16 41 | 1 29 | 15 35 | 1 13 | 20 52 | 0 39 | 19 40 | 1 50 | 21 30 | 0 5 | 5 5 | 1 9 | 24 15 | 3 46 | 17 21 | 17 0 | 0 56 | 17 58 | 5 12 |
| W25 | 23 25 | 22 31 | 5 8 | 18 31 | 4 19 | 16 19 | 1 25 | 15 22 | 1 12 | 20 54 | 0 39 | 19 40 | 1 50 | 21 30 | 0 5 | 5 5 | 1 9 | 24 15 | 3 46 | 17 23 | 17 1 | 0 53 | 17 58 | 5 12 |
| T 26 | 23 23 | 25 31 | 4 49 | 18 39 | 4 13 | 15 57 | 1 21 | 15 10 | 1 12 | 20 56 | 0 39 | 19 39 | 1 50 | 21 31 | 0 5 | 5 5 | 1 9 | 24 15 | 3 46 | 17 24 | 17 2 | 0 50 | 17 58 | 5 12 |
| F 27 | 23 20 | 27 1 | 4 14 | 18 48 | 4 6 | 15 34 | 1 16 | 14 58 | 1 11 | 20 59 | 0 39 | 19 39 | 1 49 | 21 31 | 0 5 | 5 5 | 1 9 | 24 15 | 3 46 | 17 26 | 17 2 | 0 46 | 17 58 | 5 13 |
| S 28 | 23 18 | 26 55 | 3 26 | 18 58 | 3 58 | 15 11 | 1 12 | 14 45 | 1 11 | 21 1 | 0 39 | 19 38 | 1 49 | 21 32 | 0 5 | 5 5 | 1 10 | 24 14 | 3 46 | 17 27 | 17 3 | 0 43 | 17 58 | 5 13 |
| S 29 | 23 14 | 25 19 | 2 28 | 19 9 | 3 49 | 14 48 | 1 7 | 14 33 | 1 10 | 21 3 | 0 39 | 19 38 | 1 49 | 21 32 | 0 5 | 5 5 | 1 10 | 24 14 | 3 46 | 17 28 | 17 4 | 0 40 | 17 58 | 5 13 |
| M30 | 23n11 | 22s27 | 1s24 | 19n21 | 3s40 | 14n25 | 1n 2 | 14n20 | 1n10 | 21n 5 | 0s39 | 19s38 | 1n49 | 21n33 | 0s 5 | 5s 6 | 1s10 | 24n14 | 3n46 | 17s29 | 17s 5 | 0s37 | 17n59 | 5s13 |

Julian Day Number = 2339202.5, Delta T = 17.31 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'48, Lahiri = 19°33'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## JULY 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 39 47 | 9♋52'30 | 8♒ 0 | 19♊23 | 25♌14 | 25♌30 | 8♊29 | 6°R21 | 7♊43 | 19°R51 | 28♋17 | 11°D 3 | 12♒26 | 21♓ 8 | 21♊13 | T 1 |
| W 2 | 18 43 44 | 10°49'41 | 20°13 | 20° 7 | 26° 9 | 26° 7 | 8°42 | 6♐18 | 7°47 | 19♓50 | 28°19 | 11♒ 4 | 12°23 | 21°15 | 21°18 | W 2 |
| T 3 | 18 47 41 | 11°46'52 | 2♓15 | 20°55 | 27° 3 | 26°43 | 8°55 | 6°15 | 7°50 | 19°50 | 28°21 | 11° 5 | 12°20 | 21°22 | 21°23 | T 3 |
| F 4 | 18 51 37 | 12°44'03 | 14° 9 | 21°48 | 27°57 | 27°19 | 9° 7 | 6°12 | 7°53 | 19°50 | 28°22 | 11° 7 | 12°17 | 21°28 | 21°29 | F 4 |
| S 5 | 18 55 34 | 13°41'14 | 26° 0 | 22°46 | 28°50 | 27°55 | 9°20 | 6° 9 | 7°56 | 19°49 | 28°24 | 11° 8 | 12°14 | 21°35 | 21°34 | S 5 |
| S 6 | 18 59 30 | 14°38'26 | 7♈51 | 23°48 | 29°43 | 28°32 | 9°33 | 6° 6 | 7°59 | 19°49 | 28°26 | 11° 9 | 12°10 | 21°42 | 21°39 | S 6 |
| M 7 | 19 3 27 | 15°35'39 | 19°49 | 24°55 | 0♍35 | 29° 8 | 9°46 | 6° 3 | 8° 2 | 19°48 | 28°27 | 11°R 9 | 12° 7 | 21°48 | 21°44 | M 7 |
| T 8 | 19 7 23 | 16°32'51 | 1♉57 | 26° 6 | 1°26 | 29°45 | 9°58 | 6° 0 | 8° 5 | 19°48 | 28°29 | 11° 8 | 12° 4 | 21°55 | 21°50 | T 8 |
| W 9 | 19 11 20 | 17°30'05 | 14°20 | 27°22 | 2°17 | 0♍21 | 10°11 | 5°57 | 8° 8 | 19°47 | 28°31 | 11° 7 | 12° 1 | 22° 2 | 21°55 | W 9 |
| T 10 | 19 15 16 | 18°27'19 | 27° 2 | 28°42 | 3° 7 | 0°58 | 10°23 | 5°54 | 8°10 | 19°47 | 28°32 | 11° 4 | 11°58 | 22° 8 | 22° 0 | T 10 |
| F 11 | 19 19 13 | 19°24'34 | 10♊ 6 | 0♋ 6 | 3°56 | 1°34 | 10°36 | 5°52 | 8°13 | 19°46 | 28°34 | 11° 1 | 11°54 | 22°15 | 22° 5 | F 11 |
| S 12 | 19 23 10 | 20°21'50 | 23°31 | 1°35 | 4°45 | 2°11 | 10°48 | 5°49 | 8°16 | 19°46 | 28°36 | 10°58 | 11°51 | 22°22 | 22°10 | S 12 |
| S 13 | 19 27 6 | 21°19'06 | 7♋19 | 3° 7 | 5°33 | 2°48 | 11° 0 | 5°47 | 8°19 | 19°45 | 28°37 | 10°55 | 11°48 | 22°28 | 22°15 | S 13 |
| M14 | 19 31 3 | 22°16'22 | 21°26 | 4°44 | 6°20 | 3°25 | 11°12 | 5°44 | 8°22 | 19°44 | 28°39 | 10°53 | 11°45 | 22°35 | 22°20 | M14 |
| T 15 | 19 34 59 | 23°13'39 | 5♌48 | 6°24 | 7° 6 | 4° 1 | 11°24 | 5°42 | 8°24 | 19°44 | 28°41 | 10°D53 | 11°42 | 22°42 | 22°25 | T 15 |
| W16 | 19 38 56 | 24°10'56 | 20°19 | 8° 8 | 7°52 | 4°38 | 11°36 | 5°40 | 8°27 | 19°43 | 28°42 | 10°53 | 11°39 | 22°49 | 22°30 | W16 |
| T 17 | 19 42 52 | 25° 8'14 | 4♍55 | 9°55 | 8°36 | 5°15 | 11°48 | 5°38 | 8°30 | 19°42 | 28°44 | 10°54 | 11°35 | 22°55 | 22°35 | T 17 |
| F 18 | 19 46 49 | 26° 5'32 | 19°29 | 11°46 | 9°20 | 5°52 | 12° 0 | 5°36 | 8°33 | 19°41 | 28°46 | 10°55 | 11°32 | 23° 2 | 22°40 | F 18 |
| S 19 | 19 50 46 | 27° 2'51 | 3♎57 | 13°39 | 10° 3 | 6°29 | 12°12 | 5°34 | 8°35 | 19°40 | 28°47 | 10°56 | 11°29 | 23° 9 | 22°45 | S 19 |
| S 20 | 19 54 42 | 28° 0'09 | 18°15 | 15°35 | 10°45 | 7° 6 | 12°24 | 5°32 | 8°38 | 19°40 | 28°49 | 10°56 | 11°26 | 23°15 | 22°50 | S 20 |
| M21 | 19 58 39 | 28°57'29 | 2♏20 | 17°33 | 11°25 | 7°43 | 12°36 | 5°30 | 8°40 | 19°39 | 28°51 | 10°R56 | 11°23 | 23°22 | 22°55 | M21 |
| T 22 | 20 2 35 | 29°54'48 | 16°10 | 19°34 | 12° 5 | 8°20 | 12°47 | 5°28 | 8°43 | 19°38 | 28°52 | 10°56 | 11°20 | 23°29 | 23° 0 | T 22 |
| W23 | 20 6 32 | 0♌52'08 | 29°46 | 21°36 | 12°44 | 8°57 | 12°59 | 5°27 | 8°45 | 19°37 | 28°54 | 10°55 | 11°16 | 23°35 | 23° 4 | W23 |
| T 24 | 20 10 28 | 1°49'29 | 13♐ 8 | 23°39 | 13°21 | 9°35 | 13°10 | 5°25 | 8°48 | 19°36 | 28°56 | 10°54 | 11°13 | 23°42 | 23° 9 | T 24 |
| F 25 | 20 14 25 | 2°46'50 | 26°14 | 25°44 | 13°57 | 10°12 | 13°21 | 5°24 | 8°50 | 19°35 | 28°57 | 10°53 | 11°10 | 23°49 | 23°14 | F 25 |
| S 26 | 20 18 21 | 3°44'12 | 9♑ 6 | 27°49 | 14°32 | 10°49 | 13°33 | 5°23 | 8°53 | 19°34 | 28°59 | 10°52 | 11° 7 | 23°55 | 23°18 | S 26 |
| S 27 | 20 22 18 | 4°41'35 | 21°45 | 29°55 | 15° 6 | 11°27 | 13°44 | 5°21 | 8°55 | 19°33 | 29° 1 | 10°51 | 11° 4 | 24° 2 | 23°23 | S 27 |
| M28 | 20 26 15 | 5°38'58 | 4♒11 | 2♌ 0 | 15°39 | 12° 4 | 13°55 | 5°20 | 8°57 | 19°32 | 29° 3 | 10°51 | 11° 0 | 24° 9 | 23°28 | M28 |
| T 29 | 20 30 11 | 6°36'22 | 16°26 | 4° 6 | 16°10 | 12°41 | 14° 6 | 5°19 | 8°59 | 19°31 | 29° 4 | 10°D51 | 10°57 | 24°15 | 23°32 | T 29 |
| W30 | 20 34 8 | 7°33'48 | 28°31 | 6°11 | 16°39 | 13°19 | 14°17 | 5°18 | 9° 2 | 19°30 | 29° 6 | 10°51 | 10°54 | 24°22 | 23°37 | W30 |
| T 31 | 20 38 4 | 8♌31'14 | 10♓29 | 8♌15 | 17♍ 7 | 13♍56 | 14♊28 | 5♐17 | 9♊ 4 | 19♓28 | 29♋ 8 | 10♒52 | 10♒51 | 24♓29 | 23♊41 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 7 | 18s34 | 0s17 | 19n34 | 3s30 | 14n 1 | 0n57 | 14n 7 | 1n 9 | 21n 7 | 0s39 | 19s37 | 1n49 | 21n33 | 0s 5 | 5s 6 | 1s10 | 24n13 | 3n46 | 17s29 | 17s 6 | 0s33 | 17n59 | 5s13 |
| W 2 | 23 2 | 13 59 | 0n50 | 19 49 | 3 19 | 13 38 | 0 51 | 13 55 | 1 8 | 21 9 | 0 39 | 19 37 | 1 49 | 21 34 | 0 5 | 5 6 | 1 10 | 24 13 | 3 46 | 17 29 | 17 7 | 0 30 | 17 59 | 5 14 |
| T 3 | 22 57 | 8 55 | 1 54 | 20 3 | 3 7 | 13 14 | 0 46 | 13 42 | 1 8 | 21 11 | 0 39 | 19 36 | 1 48 | 21 34 | 0 5 | 5 6 | 1 10 | 24 13 | 3 46 | 17 29 | 17 8 | 0 27 | 17 59 | 5 14 |
| F 4 | 22 52 | 3 36 | 2 52 | 20 18 | 2 55 | 12 50 | 0 40 | 13 29 | 1 7 | 21 13 | 0 39 | 19 36 | 1 48 | 21 35 | 0 5 | 5 6 | 1 10 | 24 12 | 3 46 | 17 28 | 17 9 | 0 24 | 17 59 | 5 14 |
| S 5 | 22 47 | 1n48 | 3 42 | 20 34 | 2 43 | 12 26 | 0 34 | 13 16 | 1 7 | 21 15 | 0 39 | 19 36 | 1 48 | 21 35 | 0 5 | 5 6 | 1 10 | 24 12 | 3 46 | 17 28 | 17 10 | 0 20 | 17 59 | 5 14 |
| S 6 | 22 41 | 7 9 | 4 23 | 20 50 | 2 31 | 12 2 | 0 28 | 13 2 | 1 6 | 21 17 | 0 39 | 19 35 | 1 48 | 21 36 | 0 5 | 5 7 | 1 10 | 24 12 | 3 46 | 17 27 | 17 11 | 0 17 | 17 59 | 5 14 |
| M 7 | 22 34 | 12 17 | 4 53 | 21 6 | 2 18 | 11 38 | 0 22 | 12 49 | 1 6 | 21 19 | 0 39 | 19 35 | 1 48 | 21 36 | 0 5 | 5 7 | 1 10 | 24 12 | 3 46 | 17 27 | 17 11 | 0 14 | 17 59 | 5 15 |
| T 8 | 22 27 | 17 1 | 5 10 | 21 21 | 2 4 | 11 13 | 0 15 | 12 36 | 1 5 | 21 21 | 0 39 | 19 35 | 1 48 | 21 37 | 0 5 | 5 7 | 1 10 | 24 11 | 3 46 | 17 28 | 17 12 | 0 11 | 17 59 | 5 15 |
| W 9 | 22 20 | 21 9 | 5 14 | 21 36 | 1 51 | 10 49 | 0 9 | 12 22 | 1 4 | 21 23 | 0 39 | 19 34 | 1 47 | 21 37 | 0 5 | 5 7 | 1 10 | 24 11 | 3 46 | 17 28 | 17 13 | 0 7 | 17 59 | 5 15 |
| T 10 | 22 12 | 24 26 | 5 2 | 21 51 | 1 37 | 10 25 | 0 2 | 12 9 | 1 4 | 21 25 | 0 39 | 19 34 | 1 47 | 21 38 | 0 5 | 5 8 | 1 10 | 24 11 | 3 46 | 17 29 | 17 14 | 0 4 | 17 59 | 5 15 |
| F 11 | 22 4 | 26 32 | 4 35 | 22 5 | 1 24 | 10 0 | 0s 5 | 11 55 | 1 3 | 21 26 | 0 38 | 19 34 | 1 47 | 21 38 | 0 5 | 5 8 | 1 10 | 24 10 | 3 46 | 17 30 | 17 15 | 0 1 | 18 0 | 5 16 |
| S 12 | 21 56 | 27 11 | 3 52 | 22 18 | 1 10 | 9 36 | 0 12 | 11 41 | 1 3 | 21 28 | 0 38 | 19 34 | 1 47 | 21 39 | 0 5 | 5 8 | 1 10 | 24 10 | 3 46 | 17 31 | 17 16 | 0n 2 | 18 0 | 5 16 |
| S 13 | 21 47 | 26 11 | 2 55 | 22 30 | 0 57 | 9 11 | 0 20 | 11 28 | 1 2 | 21 30 | 0 38 | 19 33 | 1 47 | 21 39 | 0 5 | 5 8 | 1 10 | 24 10 | 3 46 | 17 31 | 17 17 | 0 6 | 18 0 | 5 16 |
| M14 | 21 38 | 23 30 | 1 45 | 22 40 | 0 44 | 8 47 | 0 27 | 11 14 | 1 2 | 21 32 | 0 38 | 19 33 | 1 46 | 21 40 | 0 5 | 5 9 | 1 10 | 24 9 | 3 46 | 17 32 | 17 18 | 0 9 | 18 0 | 5 16 |
| T 15 | 21 29 | 19 19 | 0 28 | 22 49 | 0 31 | 8 23 | 0 35 | 11 0 | 1 1 | 21 33 | 0 38 | 19 33 | 1 46 | 21 40 | 0 5 | 5 9 | 1 10 | 24 9 | 3 46 | 17 32 | 17 18 | 0 12 | 18 0 | 5 17 |
| W16 | 21 19 | 13 55 | 0s52 | 22 56 | 0 18 | 7 58 | 0 43 | 10 46 | 1 0 | 21 35 | 0 38 | 19 33 | 1 46 | 21 40 | 0 5 | 5 9 | 1 10 | 24 9 | 3 46 | 17 32 | 17 19 | 0 15 | 18 0 | 5 17 |
| T 17 | 21 9 | 7 43 | 2 9 | 23 1 | 0 5 | 7 34 | 0 51 | 10 32 | 1 0 | 21 37 | 0 38 | 19 33 | 1 46 | 21 41 | 0 5 | 5 10 | 1 10 | 24 9 | 3 47 | 17 32 | 17 20 | 0 19 | 17 59 | 5 17 |
| F 18 | 20 58 | 1 8 | 3 18 | 23 4 | 0n 7 | 7 10 | 0 59 | 10 18 | 0 59 | 21 38 | 0 38 | 19 33 | 1 46 | 21 41 | 0 5 | 5 10 | 1 10 | 24 8 | 3 47 | 17 31 | 17 21 | 0 22 | 17 59 | 5 18 |
| S 19 | 20 47 | 5s27 | 4 13 | 23 5 | 0 18 | 6 46 | 1 8 | 10 3 | 0 59 | 21 40 | 0 38 | 19 32 | 1 45 | 21 42 | 0 5 | 5 11 | 1 10 | 24 8 | 3 47 | 17 31 | 17 22 | 0 25 | 17 59 | 5 18 |
| S 20 | 20 36 | 11 40 | 4 52 | 23 3 | 0 29 | 6 22 | 1 16 | 9 49 | 0 58 | 21 41 | 0 38 | 19 32 | 1 45 | 21 42 | 0 5 | 5 11 | 1 10 | 24 8 | 3 47 | 17 31 | 17 23 | 0 28 | 17 59 | 5 18 |
| M21 | 20 24 | 17 11 | 5 13 | 22 59 | 0 40 | 5 59 | 1 25 | 9 35 | 0 58 | 21 43 | 0 38 | 19 32 | 1 45 | 21 43 | 0 5 | 5 11 | 1 11 | 24 7 | 3 47 | 17 31 | 17 24 | 0 32 | 17 59 | 5 19 |
| T 22 | 20 12 | 21 44 | 5 15 | 22 52 | 0 49 | 5 35 | 1 34 | 9 20 | 0 57 | 21 44 | 0 38 | 19 32 | 1 45 | 21 43 | 0 5 | 5 12 | 1 11 | 24 7 | 3 47 | 17 31 | 17 25 | 0 35 | 17 59 | 5 19 |
| W23 | 20 0 | 25 1 | 5 0 | 22 42 | 0 59 | 5 12 | 1 44 | 9 6 | 0 56 | 21 46 | 0 38 | 19 32 | 1 45 | 21 43 | 0 5 | 5 12 | 1 11 | 24 7 | 3 47 | 17 31 | 17 26 | 0 38 | 17 59 | 5 19 |
| T 24 | 19 47 | 26 51 | 4 28 | 22 30 | 1 7 | 4 49 | 1 53 | 8 51 | 0 56 | 21 47 | 0 38 | 19 32 | 1 44 | 21 44 | 0 5 | 5 12 | 1 11 | 24 7 | 3 47 | 17 32 | 17 26 | 0 41 | 17 59 | 5 20 |
| F 25 | 19 34 | 27 8 | 3 43 | 22 15 | 1 14 | 4 26 | 2 3 | 8 37 | 0 55 | 21 49 | 0 38 | 19 32 | 1 44 | 21 44 | 0 5 | 5 13 | 1 11 | 24 6 | 3 47 | 17 32 | 17 27 | 0 45 | 17 59 | 5 20 |
| S 26 | 19 21 | 25 57 | 2 47 | 21 57 | 1 21 | 4 3 | 2 13 | 8 22 | 0 55 | 21 50 | 0 38 | 19 32 | 1 44 | 21 44 | 0 5 | 5 13 | 1 11 | 24 6 | 3 47 | 17 32 | 17 28 | 0 48 | 17 59 | 5 20 |
| S 27 | 19 7 | 23 26 | 1 44 | 21 37 | 1 27 | 3 41 | 2 23 | 8 7 | 0 54 | 21 51 | 0 38 | 19 32 | 1 44 | 21 45 | 0 5 | 5 14 | 1 11 | 24 6 | 3 47 | 17 32 | 17 29 | 0 51 | 17 59 | 5 21 |
| M28 | 18 53 | 19 50 | 0 37 | 21 15 | 1 32 | 3 19 | 2 33 | 7 52 | 0 54 | 21 53 | 0 38 | 19 32 | 1 43 | 21 45 | 0 5 | 5 14 | 1 11 | 24 5 | 3 47 | 17 32 | 17 30 | 0 54 | 17 59 | 5 21 |
| T 29 | 18 39 | 15 27 | 0n31 | 20 50 | 1 36 | 2 57 | 2 44 | 7 38 | 0 53 | 21 54 | 0 38 | 19 32 | 1 43 | 21 46 | 0 5 | 5 15 | 1 11 | 24 5 | 3 47 | 17 32 | 17 31 | 0 58 | 17 58 | 5 21 |
| W30 | 18 25 | 10 30 | 1 37 | 20 22 | 1 40 | 2 36 | 2 54 | 7 23 | 0 52 | 21 55 | 0 38 | 19 32 | 1 43 | 21 46 | 0 5 | 5 15 | 1 11 | 24 5 | 3 47 | 17 32 | 17 32 | 1 1 | 17 58 | 5 22 |
| T 31 | 18n10 | 5s14 | 2n37 | 19n53 | 1n43 | 2n15 | 3s 5 | 7n 8 | 0n52 | 21n57 | 0s38 | 19s32 | 1n43 | 21n46 | 0s 5 | 5s16 | 1s11 | 24n 5 | 3n48 | 17s32 | 17s32 | 1n 4 | 17n58 | 5s22 |

Julian Day Number = 2339232.5, Delta T = 17.27 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'52, Lahiri = 19°33'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## AUGUST 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 42 1 | 9♌28'41 | 22♓21 | 10♌19 | 17♍34 | 14♍34 | 14♊38 | 5°R17 | 9♊ 6 | 19°R27 | 29♋ 9 | 10♒52 | 10♒48 | 24♓35 | 23♊45 | F 1 |
| S 2 | 20 45 57 | 10°26'10 | 4♈11 | 12°21 | 17°59 | 15°11 | 14°49 | 5♐16 | 9° 8 | 19♓26 | 29°11 | 10°R52 | 10°45 | 24°42 | 23°50 | S 2 |
| S 3 | 20 49 54 | 11°23'40 | 16° 2 | 14°23 | 18°22 | 15°49 | 15° 0 | 5°15 | 9°10 | 19°25 | 29°13 | 10°52 | 10°41 | 24°49 | 23°54 | S 3 |
| M 4 | 20 53 50 | 12°21'11 | 27°59 | 16°23 | 18°44 | 16°27 | 15°10 | 5°15 | 9°12 | 19°24 | 29°14 | 10°52 | 10°38 | 24°55 | 23°58 | M 4 |
| T 5 | 20 57 47 | 13°18'43 | 10♉ 6 | 18°23 | 19° 3 | 17° 5 | 15°20 | 5°14 | 9°14 | 19°22 | 29°16 | 10°D52 | 10°35 | 25° 2 | 24° 3 | T 5 |
| W 6 | 21 1 44 | 14°16'17 | 22°27 | 20°20 | 19°21 | 17°42 | 15°30 | 5°14 | 9°16 | 19°21 | 29°18 | 10°52 | 10°32 | 25° 9 | 24° 7 | W 6 |
| T 7 | 21 5 40 | 15°13'53 | 5♊ 7 | 22°17 | 19°37 | 18°20 | 15°41 | 5°14 | 9°18 | 19°20 | 29°19 | 10°52 | 10°29 | 25°16 | 24°11 | T 7 |
| F 8 | 21 9 37 | 16°11'30 | 18° 9 | 24°12 | 19°52 | 18°58 | 15°51 | 5°D14 | 9°20 | 19°19 | 29°21 | 10°52 | 10°26 | 25°22 | 24°15 | F 8 |
| S 9 | 21 13 33 | 17° 9'09 | 1♋35 | 26° 5 | 20° 4 | 19°36 | 16° 0 | 5°14 | 9°22 | 19°17 | 29°22 | 10°53 | 10°22 | 25°29 | 24°19 | S 9 |
| S 10 | 21 17 30 | 18° 6'49 | 15°28 | 27°58 | 20°14 | 20°14 | 16°10 | 5°14 | 9°23 | 19°16 | 29°24 | 10°54 | 10°19 | 25°36 | 24°23 | S 10 |
| M11 | 21 21 26 | 19° 4'30 | 29°44 | 29°48 | 20°22 | 20°52 | 16°20 | 5°14 | 9°25 | 19°15 | 29°26 | 10°54 | 10°16 | 25°42 | 24°27 | M11 |
| T 12 | 21 25 23 | 20° 2'13 | 14♌22 | 1♍38 | 20°28 | 21°30 | 16°29 | 5°14 | 9°27 | 19°13 | 29°27 | 10°R54 | 10°13 | 25°49 | 24°31 | T 12 |
| W13 | 21 29 19 | 20°59'57 | 29°14 | 3°26 | 20°31 | 22° 8 | 16°39 | 5°15 | 9°28 | 19°12 | 29°29 | 10°54 | 10°10 | 25°56 | 24°34 | W13 |
| T 14 | 21 33 16 | 21°57'42 | 14♍14 | 5°12 | 20°R32 | 22°46 | 16°48 | 5°15 | 9°30 | 19°10 | 29°31 | 10°53 | 10° 6 | 26° 2 | 24°38 | T 14 |
| F 15 | 21 37 13 | 22°55'29 | 29°12 | 6°57 | 20°31 | 23°25 | 16°57 | 5°16 | 9°32 | 19° 9 | 29°32 | 10°52 | 10° 3 | 26° 9 | 24°42 | F 15 |
| S 16 | 21 41 9 | 23°53'17 | 14♎ 1 | 8°41 | 20°28 | 24° 3 | 17° 7 | 5°17 | 9°33 | 19° 7 | 29°34 | 10°50 | 10° 0 | 26°16 | 24°45 | S 16 |
| S 17 | 21 45 6 | 24°51'06 | 28°34 | 10°23 | 20°22 | 24°41 | 17°16 | 5°17 | 9°34 | 19° 6 | 29°35 | 10°49 | 9°57 | 26°22 | 24°49 | S 17 |
| M18 | 21 49 2 | 25°48'56 | 12♏47 | 12° 4 | 20°14 | 25°20 | 17°24 | 5°18 | 9°36 | 19° 5 | 29°37 | 10°48 | 9°54 | 26°29 | 24°53 | M18 |
| T 19 | 21 52 59 | 26°46'47 | 26°37 | 13°43 | 20° 4 | 25°58 | 17°33 | 5°19 | 9°37 | 19° 3 | 29°38 | 10°D47 | 9°51 | 26°36 | 24°56 | T 19 |
| W20 | 21 56 55 | 27°44'40 | 10♐ 6 | 15°21 | 19°51 | 26°37 | 17°42 | 5°20 | 9°39 | 19° 2 | 29°40 | 10°48 | 9°47 | 26°42 | 24°59 | W20 |
| T 21 | 22 0 52 | 28°42'34 | 23°14 | 16°58 | 19°36 | 27°15 | 17°50 | 5°22 | 9°40 | 19° 0 | 29°41 | 10°49 | 9°44 | 26°49 | 25° 3 | T 21 |
| F 22 | 22 4 48 | 29°40'29 | 6♑ 4 | 18°33 | 19°18 | 27°54 | 17°58 | 5°23 | 9°41 | 18°58 | 29°43 | 10°50 | 9°41 | 26°56 | 25° 6 | F 22 |
| S 23 | 22 8 45 | 0♍38'26 | 18°39 | 20° 8 | 18°58 | 28°32 | 18° 7 | 5°24 | 9°42 | 18°57 | 29°44 | 10°52 | 9°38 | 27° 2 | 25° 9 | S 23 |
| S 24 | 22 12 42 | 1°36'23 | 1♒ 0 | 21°40 | 18°36 | 29°11 | 18°15 | 5°26 | 9°43 | 18°55 | 29°46 | 10°53 | 9°35 | 27° 9 | 25°12 | S 24 |
| M25 | 22 16 38 | 2°34'23 | 13°11 | 23°12 | 18°12 | 29°50 | 18°23 | 5°27 | 9°44 | 18°54 | 29°47 | 10°R53 | 9°32 | 27°16 | 25°15 | M25 |
| T 26 | 22 20 35 | 3°32'24 | 25°14 | 24°42 | 17°46 | 0♎28 | 18°30 | 5°29 | 9°45 | 18°52 | 29°49 | 10°52 | 9°28 | 27°23 | 25°18 | T 26 |
| W27 | 22 24 31 | 4°30'26 | 7♓11 | 26°11 | 17°18 | 1° 7 | 18°38 | 5°31 | 9°46 | 18°51 | 29°50 | 10°50 | 9°25 | 27°29 | 25°21 | W27 |
| T 28 | 22 28 28 | 5°28'30 | 19° 4 | 27°38 | 16°48 | 1°46 | 18°46 | 5°32 | 9°47 | 18°49 | 29°52 | 10°47 | 9°22 | 27°36 | 25°24 | T 28 |
| F 29 | 22 32 24 | 6°26'36 | 0♈54 | 29° 4 | 16°16 | 2°25 | 18°53 | 5°34 | 9°48 | 18°47 | 29°53 | 10°43 | 9°19 | 27°43 | 25°27 | F 29 |
| S 30 | 22 36 21 | 7°24'43 | 12°45 | 0♎29 | 15°43 | 3° 4 | 19° 0 | 5°36 | 9°49 | 18°46 | 29°55 | 10°39 | 9°16 | 27°49 | 25°30 | S 30 |
| S 31 | 22 40 17 | 8♍22'53 | 24♈38 | 1♎52 | 15♍ 9 | 3♎43 | 19♊ 7 | 5♐38 | 9♊50 | 18♓44 | 29♋56 | 10♒34 | 9♒12 | 27♓56 | 25♊33 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 17n55 | 0n11 | 3n30 | 19n22 | 1n44 | 1n55 | 3s16 | 6n53 | 0n51 | 21n58 | 0s38 | 19s32 | 1n43 | 21n47 | 0s 5 | 5s16 | 1s11 | 24n 4 | 3n48 | 17s32 | 17s33 | 1n 7 | 17n58 | 5s22 |
| S 2 | 17 39 | 5 33 | 4 15 | 18 49 | 1 46 | 1 35 | 3 27 | 6 37 | 0 51 | 21 59 | 0 38 | 19 32 | 1 42 | 21 47 | 0 5 | 5 17 | 1 11 | 24 4 | 3 48 | 17 32 | 17 34 | 1 10 | 17 58 | 5 23 |
| S 3 | 17 24 | 10 45 | 4 48 | 18 14 | 1 46 | 1 16 | 3 38 | 6 22 | 0 50 | 22 0 | 0 38 | 19 32 | 1 42 | 21 47 | 0 5 | 5 17 | 1 11 | 24 4 | 3 48 | 17 32 | 17 35 | 1 14 | 17 57 | 5 23 |
| M 4 | 17 7 | 15 35 | 5 9 | 17 38 | 1 46 | 0 57 | 3 50 | 6 7 | 0 50 | 22 1 | 0 38 | 19 33 | 1 42 | 21 48 | 0 5 | 5 18 | 1 11 | 24 4 | 3 48 | 17 32 | 17 36 | 1 17 | 17 57 | 5 24 |
| T 5 | 16 51 | 19 53 | 5 17 | 17 1 | 1 45 | 0 38 | 4 1 | 5 52 | 0 49 | 22 2 | 0 38 | 19 33 | 1 42 | 21 48 | 0 5 | 5 18 | 1 11 | 24 3 | 3 48 | 17 32 | 17 37 | 1 20 | 17 57 | 5 24 |
| W 6 | 16 35 | 23 25 | 5 11 | 16 22 | 1 44 | 0 20 | 4 13 | 5 37 | 0 48 | 22 4 | 0 38 | 19 33 | 1 41 | 21 48 | 0 5 | 5 19 | 1 11 | 24 3 | 3 48 | 17 32 | 17 38 | 1 23 | 17 57 | 5 24 |
| T 7 | 16 18 | 25 56 | 4 49 | 15 43 | 1 42 | 0 3 | 4 25 | 5 21 | 0 48 | 22 5 | 0 38 | 19 33 | 1 41 | 21 48 | 0 5 | 5 19 | 1 11 | 24 3 | 3 48 | 17 32 | 17 39 | 1 27 | 17 57 | 5 25 |
| F 8 | 16 1 | 27 9 | 4 13 | 15 2 | 1 39 | 0s13 | 4 37 | 5 6 | 0 47 | 22 6 | 0 38 | 19 33 | 1 41 | 21 49 | 0 5 | 5 20 | 1 11 | 24 2 | 3 48 | 17 32 | 17 39 | 1 30 | 17 56 | 5 25 |
| S 9 | 15 43 | 26 49 | 3 21 | 14 21 | 1 36 | 0 29 | 4 49 | 4 50 | 0 47 | 22 7 | 0 38 | 19 33 | 1 41 | 21 49 | 0 5 | 5 20 | 1 11 | 24 2 | 3 48 | 17 32 | 17 40 | 1 33 | 17 56 | 5 26 |
| S 10 | 15 26 | 24 51 | 2 16 | 13 39 | 1 33 | 0 44 | 5 1 | 4 35 | 0 46 | 22 8 | 0 38 | 19 34 | 1 41 | 21 49 | 0 5 | 5 21 | 1 11 | 24 2 | 3 48 | 17 32 | 17 41 | 1 36 | 17 56 | 5 26 |
| M11 | 15 8 | 21 15 | 1 2 | 12 57 | 1 29 | 0 59 | 5 13 | 4 19 | 0 46 | 22 9 | 0 38 | 19 34 | 1 40 | 21 50 | 0 5 | 5 21 | 1 11 | 24 2 | 3 49 | 17 32 | 17 42 | 1 39 | 17 56 | 5 27 |
| T 12 | 14 50 | 16 15 | 0s19 | 12 14 | 1 24 | 1 12 | 5 25 | 4 4 | 0 45 | 22 10 | 0 38 | 19 34 | 1 40 | 21 50 | 0 5 | 5 22 | 1 11 | 24 1 | 3 49 | 17 32 | 17 43 | 1 43 | 17 55 | 5 27 |
| W13 | 14 31 | 10 12 | 1 40 | 11 30 | 1 20 | 1 25 | 5 38 | 3 48 | 0 44 | 22 11 | 0 38 | 19 35 | 1 40 | 21 50 | 0 5 | 5 23 | 1 11 | 24 1 | 3 49 | 17 32 | 17 44 | 1 46 | 17 55 | 5 27 |
| T 14 | 14 13 | 3 32 | 2 54 | 10 47 | 1 14 | 1 36 | 5 50 | 3 33 | 0 44 | 22 12 | 0 38 | 19 35 | 1 40 | 21 50 | 0 5 | 5 23 | 1 11 | 24 1 | 3 49 | 17 32 | 17 45 | 1 49 | 17 55 | 5 28 |
| F 15 | 13 54 | 3s18 | 3 57 | 10 3 | 1 9 | 1 47 | 6 2 | 3 17 | 0 43 | 22 12 | 0 38 | 19 35 | 1 39 | 21 51 | 0 5 | 5 24 | 1 11 | 24 1 | 3 49 | 17 32 | 17 45 | 1 52 | 17 54 | 5 28 |
| S 16 | 13 35 | 9 52 | 4 42 | 9 18 | 1 3 | 1 57 | 6 14 | 3 1 | 0 43 | 22 13 | 0 38 | 19 36 | 1 39 | 21 51 | 0 5 | 5 24 | 1 11 | 24 1 | 3 49 | 17 33 | 17 46 | 1 56 | 17 54 | 5 29 |
| S 17 | 13 16 | 15 47 | 5 9 | 8 34 | 0 57 | 2 5 | 6 26 | 2 45 | 0 42 | 22 14 | 0 38 | 19 36 | 1 39 | 21 51 | 0 5 | 5 25 | 1 11 | 24 0 | 3 49 | 17 33 | 17 47 | 1 59 | 17 54 | 5 29 |
| M18 | 12 56 | 20 43 | 5 16 | 7 50 | 0 51 | 2 13 | 6 37 | 2 30 | 0 42 | 22 15 | 0 38 | 19 36 | 1 39 | 21 51 | 0 5 | 5 26 | 1 11 | 24 0 | 3 49 | 17 33 | 17 48 | 2 2 | 17 53 | 5 30 |
| T 19 | 12 37 | 24 22 | 5 4 | 7 5 | 0 44 | 2 20 | 6 49 | 2 14 | 0 41 | 22 16 | 0 38 | 19 37 | 1 38 | 21 51 | 0 5 | 5 26 | 1 11 | 24 0 | 3 49 | 17 33 | 17 49 | 2 5 | 17 53 | 5 30 |
| W20 | 12 17 | 26 33 | 4 36 | 6 21 | 0 37 | 2 25 | 7 0 | 1 58 | 0 40 | 22 17 | 0 38 | 19 37 | 1 38 | 21 52 | 0 5 | 5 27 | 1 11 | 24 0 | 3 50 | 17 33 | 17 50 | 2 8 | 17 53 | 5 31 |
| T 21 | 11 57 | 27 12 | 3 54 | 5 37 | 0 30 | 2 29 | 7 11 | 1 42 | 0 40 | 22 17 | 0 38 | 19 37 | 1 38 | 21 52 | 0 5 | 5 27 | 1 12 | 23 59 | 3 50 | 17 33 | 17 51 | 2 12 | 17 52 | 5 31 |
| F 22 | 11 36 | 26 21 | 3 1 | 4 53 | 0 23 | 2 32 | 7 22 | 1 26 | 0 39 | 22 18 | 0 38 | 19 38 | 1 38 | 21 52 | 0 5 | 5 28 | 1 12 | 23 59 | 3 50 | 17 33 | 17 51 | 2 15 | 17 52 | 5 32 |
| S 23 | 11 16 | 24 9 | 2 0 | 4 9 | 0 15 | 2 33 | 7 32 | 1 10 | 0 39 | 22 19 | 0 38 | 19 38 | 1 38 | 21 52 | 0 5 | 5 29 | 1 12 | 23 59 | 3 50 | 17 32 | 17 52 | 2 18 | 17 52 | 5 32 |
| S 24 | 10 55 | 20 51 | 0 54 | 3 25 | 0 7 | 2 34 | 7 41 | 0 55 | 0 38 | 22 20 | 0 38 | 19 39 | 1 37 | 21 52 | 0 5 | 5 29 | 1 12 | 23 59 | 3 50 | 17 32 | 17 53 | 2 21 | 17 51 | 5 33 |
| M25 | 10 35 | 16 41 | 0n13 | 2 42 | 0s 1 | 2 33 | 7 50 | 0 39 | 0 38 | 22 20 | 0 38 | 19 39 | 1 37 | 21 53 | 0 5 | 5 30 | 1 12 | 23 59 | 3 50 | 17 32 | 17 54 | 2 24 | 17 51 | 5 33 |
| T 26 | 10 14 | 11 54 | 1 18 | 1 59 | 0 9 | 2 30 | 7 59 | 0 23 | 0 37 | 22 21 | 0 38 | 19 40 | 1 37 | 21 53 | 0 5 | 5 31 | 1 12 | 23 58 | 3 50 | 17 32 | 17 55 | 2 28 | 17 50 | 5 34 |
| W27 | 9 52 | 6 44 | 2 20 | 1 16 | 0 17 | 2 27 | 8 7 | 0 7 | 0 36 | 22 22 | 0 38 | 19 40 | 1 37 | 21 53 | 0 4 | 5 31 | 1 12 | 23 58 | 3 50 | 17 33 | 17 56 | 2 31 | 17 50 | 5 34 |
| T 28 | 9 31 | 1 21 | 3 15 | 0 34 | 0 25 | 2 22 | 8 14 | 0s 9 | 0 36 | 22 22 | 0 38 | 19 41 | 1 36 | 21 53 | 0 4 | 5 32 | 1 12 | 23 58 | 3 50 | 17 34 | 17 56 | 2 34 | 17 50 | 5 35 |
| F 29 | 9 10 | 4n 3 | 4 1 | 0s 8 | 0 33 | 2 16 | 8 21 | 0 25 | 0 35 | 22 23 | 0 38 | 19 41 | 1 36 | 21 53 | 0 4 | 5 32 | 1 12 | 23 58 | 3 51 | 17 35 | 17 57 | 2 37 | 17 49 | 5 35 |
| S 30 | 8 48 | 9 17 | 4 37 | 0 50 | 0 41 | 2 9 | 8 27 | 0 41 | 0 35 | 22 23 | 0 38 | 19 42 | 1 36 | 21 53 | 0 4 | 5 33 | 1 12 | 23 58 | 3 51 | 17 36 | 17 58 | 2 40 | 17 49 | 5 36 |
| S 31 | 8n26 | 14n13 | 5n 1 | 1s30 | 0s50 | 2s 0 | 8s31 | 0s57 | 0n34 | 22n24 | 0s38 | 19s43 | 1n36 | 21n53 | 0s 4 | 5s34 | 1s12 | 23n58 | 3n51 | 17s37 | 17s59 | 2n44 | 17n48 | 5s36 |

Julian Day Number = 2339263.5, Delta T = 17.23 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°26'57, Lahiri = 19°33'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## SEPTEMBER 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 44 14 | 9♍21'04 | 6♉36 | 3♎14 | 14°R34 | 4♎22 | 19♊14 | 5♐41 | 9♊50 | 18°R43 | 29♋57 | 10°R30 | 9♒ 9 | 28♓ 3 | 25♊35 | M 1 |
| T 2 | 22 48 11 | 10°19'18 | 18°42 | 4°35 | 13♍58 | 5° 1 | 19°21 | 5°43 | 9°51 | 18♓41 | 29°59 | 10♒27 | 9° 6 | 28° 9 | 25°38 | T 2 |
| W 3 | 22 52 7 | 11°17'33 | 1♊ 1 | 5°54 | 13°21 | 5°40 | 19°28 | 5°45 | 9°52 | 18°39 | 0♌ 0 | 10°25 | 9° 3 | 28°16 | 25°40 | W 3 |
| T 4 | 22 56 4 | 12°15'51 | 13°37 | 7°11 | 12°44 | 6°19 | 19°34 | 5°48 | 9°52 | 18°38 | 0° 1 | 10°D24 | 9° 0 | 28°23 | 25°43 | T 4 |
| F 5 | 23 0 0 | 13°14'11 | 26°33 | 8°27 | 12° 7 | 6°58 | 19°40 | 5°50 | 9°53 | 18°36 | 0° 3 | 10°25 | 8°57 | 28°29 | 25°45 | F 5 |
| S 6 | 23 3 57 | 14°12'33 | 9♋53 | 9°41 | 11°30 | 7°38 | 19°46 | 5°53 | 9°53 | 18°34 | 0° 4 | 10°26 | 8°53 | 28°36 | 25°47 | S 6 |
| S 7 | 23 7 53 | 15°10'57 | 23°39 | 10°54 | 10°53 | 8°17 | 19°52 | 5°56 | 9°54 | 18°33 | 0° 5 | 10°28 | 8°50 | 28°43 | 25°49 | S 7 |
| M 8 | 23 11 50 | 16° 9'23 | 7♌53 | 12° 4 | 10°17 | 8°56 | 19°58 | 5°59 | 9°54 | 18°31 | 0° 6 | 10°R29 | 8°47 | 28°50 | 25°51 | M 8 |
| T 9 | 23 15 46 | 17° 7'51 | 22°32 | 13°13 | 9°42 | 9°36 | 20° 4 | 6° 2 | 9°54 | 18°29 | 0° 8 | 10°28 | 8°44 | 28°56 | 25°54 | T 9 |
| W10 | 23 19 43 | 18° 6'21 | 7♍32 | 14°20 | 9° 8 | 10°15 | 20° 9 | 6° 5 | 9°54 | 18°28 | 0° 9 | 10°26 | 8°41 | 29° 3 | 25°55 | W10 |
| T 11 | 23 23 40 | 19° 4'53 | 22°45 | 15°24 | 8°35 | 10°55 | 20°15 | 6° 8 | 9°55 | 18°26 | 0°10 | 10°22 | 8°38 | 29°10 | 25°57 | T 11 |
| F 12 | 23 27 36 | 20° 3'27 | 8♎ 0 | 16°27 | 8° 4 | 11°34 | 20°20 | 6°11 | 9°55 | 18°24 | 0°11 | 10°17 | 8°34 | 29°16 | 25°59 | F 12 |
| S 13 | 23 31 33 | 21° 2'03 | 23° 7 | 17°27 | 7°34 | 12°14 | 20°25 | 6°14 | 9°55 | 18°23 | 0°13 | 10°11 | 8°31 | 29°23 | 26° 1 | S 13 |
| S 14 | 23 35 29 | 22° 0'41 | 7♏57 | 18°24 | 7° 6 | 12°54 | 20°30 | 6°17 | 9°R55 | 18°21 | 0°14 | 10° 5 | 8°28 | 29°30 | 26° 3 | S 14 |
| M15 | 23 39 26 | 22°59'20 | 22°23 | 19°18 | 6°40 | 13°33 | 20°34 | 6°21 | 9°55 | 18°19 | 0°15 | 10° 0 | 8°25 | 29°36 | 26° 4 | M15 |
| T 16 | 23 43 22 | 23°58'01 | 6♐22 | 20°10 | 6°16 | 14°13 | 20°39 | 6°24 | 9°55 | 18°18 | 0°16 | 9°57 | 8°22 | 29°43 | 26° 6 | T 16 |
| W17 | 23 47 19 | 24°56'44 | 19°53 | 20°58 | 5°55 | 14°53 | 20°43 | 6°28 | 9°55 | 18°16 | 0°17 | 9°D55 | 8°18 | 29°50 | 26° 7 | W17 |
| T 18 | 23 51 15 | 25°55'28 | 2♑58 | 21°43 | 5°35 | 15°33 | 20°47 | 6°32 | 9°55 | 18°15 | 0°18 | 9°55 | 8°15 | 29°56 | 26° 8 | T 18 |
| F 19 | 23 55 12 | 26°54'15 | 15°41 | 22°24 | 5°18 | 16°13 | 20°51 | 6°35 | 9°54 | 18°13 | 0°19 | 9°56 | 8°12 | 0♈ 3 | 26°10 | F 19 |
| S 20 | 23 59 9 | 27°53'03 | 28° 5 | 23° 1 | 5° 3 | 16°53 | 20°55 | 6°39 | 9°54 | 18°11 | 0°20 | 9°58 | 8° 9 | 0°10 | 26°11 | S 20 |
| S 21 | 0 3 5 | 28°51'52 | 10♒16 | 23°33 | 4°50 | 17°33 | 20°59 | 6°43 | 9°54 | 18°10 | 0°21 | 9°R58 | 8° 6 | 0°17 | 26°12 | S 21 |
| M22 | 0 7 2 | 29°50'44 | 22°17 | 24° 1 | 4°40 | 18°13 | 21° 2 | 6°47 | 9°53 | 18° 8 | 0°22 | 9°57 | 8° 3 | 0°23 | 26°13 | M22 |
| T 23 | 0 10 58 | 0♎49'37 | 4♓11 | 24°23 | 4°32 | 18°53 | 21° 5 | 6°51 | 9°53 | 18° 6 | 0°23 | 9°54 | 7°59 | 0°30 | 26°14 | T 23 |
| W24 | 0 14 55 | 1°48'32 | 16° 3 | 24°40 | 4°27 | 19°33 | 21° 8 | 6°56 | 9°53 | 18° 5 | 0°24 | 9°49 | 7°56 | 0°37 | 26°15 | W24 |
| T 25 | 0 18 51 | 2°47'29 | 27°53 | 24°51 | 4°24 | 20°13 | 21°11 | 7° 0 | 9°52 | 18° 3 | 0°25 | 9°41 | 7°53 | 0°43 | 26°16 | T 25 |
| F 26 | 0 22 48 | 3°46'28 | 9♈44 | 24°R55 | 4°D24 | 20°54 | 21°14 | 7° 4 | 9°51 | 18° 2 | 0°26 | 9°32 | 7°50 | 0°50 | 26°16 | F 26 |
| S 27 | 0 26 44 | 4°45'29 | 21°38 | 24°53 | 4°25 | 21°34 | 21°16 | 7° 8 | 9°51 | 18° 0 | 0°27 | 9°21 | 7°47 | 0°57 | 26°17 | S 27 |
| S 28 | 0 30 41 | 5°44'33 | 3♉36 | 24°43 | 4°30 | 22°14 | 21°18 | 7°13 | 9°50 | 17°59 | 0°28 | 9°10 | 7°43 | 1° 3 | 26°18 | S 28 |
| M29 | 0 34 37 | 6°43'38 | 15°39 | 24°25 | 4°36 | 22°55 | 21°20 | 7°17 | 9°49 | 17°57 | 0°29 | 9° 0 | 7°40 | 1°10 | 26°18 | M29 |
| T 30 | 0 38 34 | 7♎42'46 | 27♉51 | 24♎ 0 | 4♍45 | 23♎35 | 21♊22 | 7♐22 | 9♊49 | 17♓55 | 0♌29 | 8♒52 | 7♒37 | 1♈17 | 26♊18 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8n 5 | 18n39 | 5n12 | 2s11 | 0s58 | 1s51 | 8s36 | 1s13 | 0n33 | 22n24 | 0s38 | 19s43 | 1n36 | 21n53 | 0s 4 | 5s34 | 1s12 | 23n57 | 3n51 | 17s38 | 18s 0 | 2n47 | 17n48 | 5s37 |
| T 2 | 7 43 | 22 22 | 5 10 | 2 51 | 1 7 | 1 40 | 8 39 | 1 30 | 0 33 | 22 25 | 0 38 | 19 44 | 1 35 | 21 54 | 0 4 | 5 35 | 1 12 | 23 57 | 3 51 | 17 39 | 18 1 | 2 50 | 17 48 | 5 37 |
| W 3 | 7 21 | 25 10 | 4 53 | 3 30 | 1 15 | 1 28 | 8 41 | 1 46 | 0 32 | 22 26 | 0 38 | 19 44 | 1 35 | 21 54 | 0 4 | 5 36 | 1 12 | 23 57 | 3 51 | 17 40 | 18 2 | 2 53 | 17 47 | 5 38 |
| T 4 | 6 58 | 26 48 | 4 22 | 4 8 | 1 24 | 1 15 | 8 42 | 2 2 | 0 32 | 22 26 | 0 38 | 19 45 | 1 35 | 21 54 | 0 4 | 5 36 | 1 12 | 23 57 | 3 51 | 17 40 | 18 2 | 2 56 | 17 47 | 5 38 |
| F 5 | 6 36 | 27 3 | 3 37 | 4 46 | 1 32 | 1 2 | 8 43 | 2 18 | 0 31 | 22 26 | 0 38 | 19 46 | 1 35 | 21 54 | 0 4 | 5 37 | 1 12 | 23 57 | 3 52 | 17 40 | 18 3 | 3 0 | 17 46 | 5 39 |
| S 6 | 6 13 | 25 46 | 2 39 | 5 23 | 1 41 | 0 47 | 8 42 | 2 34 | 0 31 | 22 27 | 0 38 | 19 46 | 1 35 | 21 54 | 0 4 | 5 38 | 1 12 | 23 57 | 3 52 | 17 39 | 18 4 | 3 3 | 17 46 | 5 39 |
| S 7 | 5 51 | 22 53 | 1 31 | 6 0 | 1 49 | 0 32 | 8 41 | 2 50 | 0 30 | 22 27 | 0 38 | 19 47 | 1 34 | 21 54 | 0 4 | 5 38 | 1 12 | 23 56 | 3 52 | 17 39 | 18 5 | 3 6 | 17 45 | 5 40 |
| M 8 | 5 28 | 18 33 | 0 14 | 6 35 | 1 57 | 0 17 | 8 38 | 3 6 | 0 29 | 22 28 | 0 38 | 19 48 | 1 34 | 21 54 | 0 4 | 5 39 | 1 12 | 23 56 | 3 52 | 17 39 | 18 6 | 3 9 | 17 45 | 5 40 |
| T 9 | 5 5 | 13 0 | 1s 5 | 7 9 | 2 6 | 0 1 | 8 35 | 3 22 | 0 29 | 22 28 | 0 38 | 19 49 | 1 34 | 21 54 | 0 4 | 5 40 | 1 12 | 23 56 | 3 52 | 17 39 | 18 7 | 3 12 | 17 44 | 5 41 |
| W10 | 4 43 | 6 34 | 2 22 | 7 43 | 2 14 | 0n16 | 8 31 | 3 38 | 0 28 | 22 29 | 0 38 | 19 49 | 1 34 | 21 54 | 0 4 | 5 40 | 1 12 | 23 56 | 3 52 | 17 39 | 18 7 | 3 16 | 17 44 | 5 41 |
| T 11 | 4 20 | 0s19 | 3 29 | 8 15 | 2 22 | 0 32 | 8 26 | 3 54 | 0 28 | 22 29 | 0 38 | 19 50 | 1 33 | 21 54 | 0 4 | 5 41 | 1 12 | 23 56 | 3 52 | 17 40 | 18 8 | 3 19 | 17 43 | 5 42 |
| F 12 | 3 57 | 7 11 | 4 22 | 8 47 | 2 30 | 0 49 | 8 20 | 4 10 | 0 27 | 22 29 | 0 38 | 19 51 | 1 33 | 21 54 | 0 4 | 5 42 | 1 12 | 23 56 | 3 53 | 17 42 | 18 9 | 3 22 | 17 43 | 5 43 |
| S 13 | 3 34 | 13 35 | 4 56 | 9 17 | 2 37 | 1 6 | 8 14 | 4 26 | 0 26 | 22 30 | 0 38 | 19 52 | 1 33 | 21 54 | 0 4 | 5 42 | 1 12 | 23 56 | 3 53 | 17 43 | 18 10 | 3 25 | 17 42 | 5 43 |
| S 14 | 3 10 | 19 3 | 5 9 | 9 46 | 2 45 | 1 23 | 8 6 | 4 42 | 0 26 | 22 30 | 0 38 | 19 52 | 1 33 | 21 54 | 0 4 | 5 43 | 1 12 | 23 56 | 3 53 | 17 45 | 18 11 | 3 28 | 17 42 | 5 44 |
| M15 | 2 47 | 23 16 | 5 2 | 10 13 | 2 52 | 1 40 | 7 58 | 4 58 | 0 25 | 22 30 | 0 38 | 19 53 | 1 33 | 21 54 | 0 4 | 5 44 | 1 12 | 23 55 | 3 53 | 17 46 | 18 12 | 3 31 | 17 41 | 5 44 |
| T 16 | 2 24 | 25 58 | 4 37 | 10 39 | 2 59 | 1 56 | 7 50 | 5 14 | 0 25 | 22 31 | 0 38 | 19 54 | 1 32 | 21 54 | 0 4 | 5 44 | 1 12 | 23 55 | 3 53 | 17 47 | 18 12 | 3 35 | 17 41 | 5 45 |
| W17 | 2 1 | 27 3 | 3 58 | 11 4 | 3 5 | 2 13 | 7 41 | 5 30 | 0 24 | 22 31 | 0 38 | 19 55 | 1 32 | 21 54 | 0 4 | 5 45 | 1 12 | 23 55 | 3 53 | 17 48 | 18 13 | 3 38 | 17 40 | 5 45 |
| T 18 | 1 37 | 26 33 | 3 7 | 11 26 | 3 12 | 2 29 | 7 31 | 5 46 | 0 24 | 22 31 | 0 38 | 19 55 | 1 32 | 21 54 | 0 4 | 5 46 | 1 12 | 23 55 | 3 53 | 17 48 | 18 14 | 3 41 | 17 40 | 5 46 |
| F 19 | 1 14 | 24 40 | 2 7 | 11 47 | 3 17 | 2 45 | 7 21 | 6 2 | 0 23 | 22 31 | 0 38 | 19 56 | 1 32 | 21 54 | 0 4 | 5 46 | 1 12 | 23 55 | 3 54 | 17 47 | 18 15 | 3 44 | 17 39 | 5 46 |
| S 20 | 0 51 | 21 37 | 1 4 | 12 6 | 3 23 | 3 0 | 7 10 | 6 18 | 0 22 | 22 32 | 0 39 | 19 57 | 1 32 | 21 54 | 0 4 | 5 47 | 1 12 | 23 55 | 3 54 | 17 47 | 18 16 | 3 47 | 17 39 | 5 47 |
| S 21 | 0 27 | 17 41 | 0n 2 | 12 22 | 3 27 | 3 14 | 7 0 | 6 34 | 0 22 | 22 32 | 0 39 | 19 58 | 1 31 | 21 54 | 0 4 | 5 47 | 1 12 | 23 55 | 3 54 | 17 47 | 18 16 | 3 50 | 17 38 | 5 48 |
| M22 | 0 4 | 13 4 | 1 6 | 12 36 | 3 31 | 3 28 | 6 49 | 6 50 | 0 21 | 22 32 | 0 39 | 19 59 | 1 31 | 21 54 | 0 4 | 5 48 | 1 12 | 23 55 | 3 54 | 17 47 | 18 17 | 3 54 | 17 38 | 5 48 |
| T 23 | 0s20 | 8 1 | 2 7 | 12 48 | 3 35 | 3 42 | 6 37 | 7 5 | 0 21 | 22 32 | 0 39 | 20 0 | 1 31 | 21 54 | 0 4 | 5 49 | 1 12 | 23 55 | 3 54 | 17 48 | 18 18 | 3 57 | 17 37 | 5 49 |
| W24 | 0 43 | 2 44 | 3 1 | 12 56 | 3 37 | 3 54 | 6 26 | 7 21 | 0 20 | 22 33 | 0 39 | 20 1 | 1 31 | 21 54 | 0 4 | 5 49 | 1 12 | 23 55 | 3 54 | 17 49 | 18 19 | 4 0 | 17 36 | 5 49 |
| T 25 | 1 7 | 2n39 | 3 48 | 13 2 | 3 39 | 4 6 | 6 14 | 7 37 | 0 19 | 22 33 | 0 39 | 20 2 | 1 31 | 21 54 | 0 4 | 5 50 | 1 12 | 23 55 | 3 55 | 17 51 | 18 20 | 4 3 | 17 36 | 5 50 |
| F 26 | 1 30 | 7 55 | 4 25 | 13 4 | 3 40 | 4 18 | 6 2 | 7 53 | 0 19 | 22 33 | 0 39 | 20 2 | 1 31 | 21 54 | 0 4 | 5 51 | 1 12 | 23 55 | 3 55 | 17 54 | 18 21 | 4 6 | 17 35 | 5 50 |
| S 27 | 1 54 | 12 56 | 4 50 | 13 3 | 3 39 | 4 28 | 5 50 | 8 8 | 0 18 | 22 33 | 0 39 | 20 3 | 1 30 | 21 54 | 0 4 | 5 51 | 1 12 | 23 55 | 3 55 | 17 57 | 18 21 | 4 9 | 17 35 | 5 51 |
| S 28 | 2 17 | 17 29 | 5 3 | 12 57 | 3 37 | 4 38 | 5 38 | 8 24 | 0 18 | 22 33 | 0 39 | 20 4 | 1 30 | 21 54 | 0 4 | 5 52 | 1 12 | 23 55 | 3 55 | 18 0 | 18 22 | 4 13 | 17 34 | 5 52 |
| M29 | 2 41 | 21 22 | 5 2 | 12 48 | 3 34 | 4 47 | 5 26 | 8 40 | 0 17 | 22 33 | 0 39 | 20 5 | 1 30 | 21 53 | 0 4 | 5 52 | 1 12 | 23 55 | 3 55 | 18 2 | 18 23 | 4 16 | 17 34 | 5 52 |
| T 30 | 3s 4 | 24n23 | 4n48 | 12s34 | 3s30 | 4n55 | 5s14 | 8s55 | 0n16 | 22n33 | 0s39 | 20s 6 | 1n30 | 21n53 | 0s 4 | 5s53 | 1s12 | 23n55 | 3n55 | 18s 4 | 18s24 | 4n19 | 17n33 | 5s53 |

Julian Day Number = 2339294.5, Delta T = 17.19 sec
Ecliptic obliquity = 23°28'52, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'01, Lahiri = 19°34'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## OCTOBER 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 42 31 | 8♎41'56 | 10♊12 | 23°R27 | 4♍56 | 24♎16 | 21♊24 | 7♐27 | 9°R48 | 17°R54 | 0♌30 | 8°R45 | 7♒34 | 1♈23 | 26♊19 | W 1 |
| T 2 | 0 46 27 | 9°41'09 | 22°47 | 22♎46 | 5° 9 | 24°56 | 21°26 | 7°31 | 9♊47 | 17♓52 | 0°31 | 8♒42 | 7°31 | 1°30 | 26°19 | T 2 |
| F 3 | 0 50 24 | 10°40'23 | 5♋39 | 21°57 | 5°24 | 25°37 | 21°27 | 7°36 | 9°46 | 17°51 | 0°32 | 8°D40 | 7°28 | 1°37 | 26°19 | F 3 |
| S 4 | 0 54 20 | 11°39'41 | 18°51 | 21° 2 | 5°42 | 26°18 | 21°28 | 7°41 | 9°45 | 17°49 | 0°32 | 8°40 | 7°24 | 1°44 | 26°R19 | S 4 |
| S 5 | 0 58 17 | 12°39'00 | 2♌27 | 20° 0 | 6° 1 | 26°58 | 21°29 | 7°46 | 9°44 | 17°48 | 0°33 | 8°R41 | 7°21 | 1°50 | 26°19 | S 5 |
| M 6 | 1 2 13 | 13°38'22 | 16°29 | 18°53 | 6°22 | 27°39 | 21°29 | 7°51 | 9°43 | 17°46 | 0°34 | 8°41 | 7°18 | 1°57 | 26°19 | M 6 |
| T 7 | 1 6 10 | 14°37'46 | 0♍57 | 17°42 | 6°45 | 28°20 | 21°30 | 7°56 | 9°42 | 17°45 | 0°34 | 8°39 | 7°15 | 2° 4 | 26°19 | T 7 |
| W 8 | 1 10 6 | 15°37'12 | 15°49 | 16°30 | 7°10 | 29° 1 | 21°30 | 8° 1 | 9°41 | 17°44 | 0°35 | 8°35 | 7°12 | 2°10 | 26°19 | W 8 |
| T 9 | 1 14 3 | 16°36'41 | 0♎57 | 15°18 | 7°36 | 29°42 | 21°R30 | 8° 7 | 9°40 | 17°42 | 0°36 | 8°28 | 7° 9 | 2°17 | 26°18 | T 9 |
| F 10 | 1 18 0 | 17°36'11 | 16°13 | 14° 8 | 8° 4 | 0♏23 | 21°30 | 8°12 | 9°38 | 17°41 | 0°36 | 8°18 | 7° 5 | 2°24 | 26°18 | F 10 |
| S 11 | 1 21 56 | 18°35'44 | 1♏27 | 13° 2 | 8°34 | 1° 4 | 21°30 | 8°17 | 9°37 | 17°39 | 0°37 | 8° 8 | 7° 2 | 2°30 | 26°17 | S 11 |
| S 12 | 1 25 53 | 19°35'19 | 16°26 | 12° 3 | 9° 5 | 1°45 | 21°29 | 8°23 | 9°36 | 17°38 | 0°37 | 7°57 | 6°59 | 2°37 | 26°17 | S 12 |
| M13 | 1 29 49 | 20°34'56 | 1♐ 3 | 11°11 | 9°38 | 2°26 | 21°29 | 8°28 | 9°34 | 17°37 | 0°38 | 7°48 | 6°56 | 2°44 | 26°16 | M13 |
| T 14 | 1 33 46 | 21°34'34 | 15°11 | 10°29 | 10°12 | 3° 7 | 21°28 | 8°33 | 9°33 | 17°35 | 0°38 | 7°41 | 6°53 | 2°51 | 26°15 | T 14 |
| W15 | 1 37 42 | 22°34'15 | 28°49 | 9°57 | 10°47 | 3°49 | 21°27 | 8°39 | 9°31 | 17°34 | 0°39 | 7°37 | 6°49 | 2°57 | 26°14 | W15 |
| T 16 | 1 41 39 | 23°33'57 | 11♑58 | 9°36 | 11°24 | 4°30 | 21°25 | 8°45 | 9°30 | 17°33 | 0°39 | 7°34 | 6°46 | 3° 4 | 26°14 | T 16 |
| F 17 | 1 45 35 | 24°33'41 | 24°42 | 9°D27 | 12° 2 | 5°11 | 21°24 | 8°50 | 9°28 | 17°32 | 0°39 | 7°D34 | 6°43 | 3°11 | 26°13 | F 17 |
| S 18 | 1 49 32 | 25°33'26 | 7♒ 5 | 9°28 | 12°41 | 5°53 | 21°22 | 8°56 | 9°27 | 17°30 | 0°40 | 7°R34 | 6°40 | 3°17 | 26°11 | S 18 |
| S 19 | 1 53 29 | 26°33'13 | 19°12 | 9°41 | 13°22 | 6°34 | 21°20 | 9° 2 | 9°25 | 17°29 | 0°40 | 7°34 | 6°37 | 3°24 | 26°10 | S 19 |
| M20 | 1 57 25 | 27°33'02 | 1♓ 9 | 10° 4 | 14° 3 | 7°16 | 21°18 | 9° 8 | 9°23 | 17°28 | 0°40 | 7°31 | 6°34 | 3°31 | 26° 9 | M20 |
| T 21 | 2 1 22 | 28°32'53 | 13° 0 | 10°37 | 14°46 | 7°57 | 21°16 | 9°14 | 9°22 | 17°27 | 0°41 | 7°27 | 6°30 | 3°37 | 26° 8 | T 21 |
| W22 | 2 5 18 | 29°32'45 | 24°49 | 11°18 | 15°30 | 8°39 | 21°13 | 9°20 | 9°20 | 17°26 | 0°41 | 7°19 | 6°27 | 3°44 | 26° 6 | W22 |
| T 23 | 2 9 15 | 0♏32'39 | 6♈40 | 12° 8 | 16°15 | 9°21 | 21°10 | 9°26 | 9°18 | 17°25 | 0°41 | 7° 9 | 6°24 | 3°51 | 26° 5 | T 23 |
| F 24 | 2 13 11 | 1°32'35 | 18°34 | 13° 5 | 17° 1 | 10° 2 | 21° 7 | 9°32 | 9°16 | 17°24 | 0°41 | 6°56 | 6°21 | 3°58 | 26° 3 | F 24 |
| S 25 | 2 17 8 | 2°32'33 | 0♉34 | 14° 8 | 17°47 | 10°44 | 21° 4 | 9°38 | 9°14 | 17°22 | 0°42 | 6°42 | 6°18 | 4° 4 | 26° 2 | S 25 |
| S 26 | 2 21 4 | 3°32'33 | 12°41 | 15°17 | 18°35 | 11°26 | 21° 1 | 9°44 | 9°13 | 17°21 | 0°42 | 6°27 | 6°14 | 4°11 | 26° 0 | S 26 |
| M27 | 2 25 1 | 4°32'35 | 24°56 | 16°31 | 19°23 | 12° 8 | 20°57 | 9°50 | 9°11 | 17°20 | 0°42 | 6°14 | 6°11 | 4°18 | 25°58 | M27 |
| T 28 | 2 28 58 | 5°32'39 | 7♊18 | 17°48 | 20°13 | 12°50 | 20°54 | 9°56 | 9° 9 | 17°19 | 0°42 | 6° 2 | 6° 8 | 4°24 | 25°56 | T 28 |
| W29 | 2 32 54 | 6°32'45 | 19°50 | 19°10 | 21° 3 | 13°32 | 20°50 | 10° 2 | 9° 7 | 17°18 | 0°42 | 5°53 | 6° 5 | 4°31 | 25°54 | W29 |
| T 30 | 2 36 51 | 7°32'52 | 2♋33 | 20°34 | 21°54 | 14°14 | 20°46 | 10° 9 | 9° 5 | 17°18 | 0°42 | 5°47 | 6° 2 | 4°38 | 25°52 | T 30 |
| F 31 | 2 40 47 | 8♏33'02 | 15♋29 | 22♎ 1 | 22♍46 | 14♏56 | 20♊42 | 10♐15 | 9♊ 3 | 17♓17 | 0°R42 | 5♒44 | 5♒59 | 4♈44 | 25♊50 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s27 | 26n18 | 4n20 | 12s16 | 3s23 | 5n 2 | 5s 2 | 9s11 | 0n16 | 22n34 | 0s39 | 20s 7 | 1n30 | 21n53 | 0s 4 | 5s54 | 1s12 | 23n55 | 3n55 | 18s 6 | 18s25 | 4n22 | 17n33 | 5s53 |
| T 2 | 3 51 | 26 56 | 3 39 | 11 53 | 3 15 | 5 9 | 4 50 | 9 26 | 0 15 | 22 34 | 0 39 | 20 8 | 1 29 | 21 53 | 0 4 | 5 54 | 1 12 | 23 55 | 3 56 | 18 7 | 18 25 | 4 25 | 17 32 | 5 54 |
| F 3 | 4 14 | 26 8 | 2 47 | 11 26 | 3 5 | 5 14 | 4 38 | 9 42 | 0 15 | 22 34 | 0 39 | 20 9 | 1 29 | 21 53 | 0 4 | 5 55 | 1 12 | 23 55 | 3 56 | 18 7 | 18 26 | 4 28 | 17 31 | 5 55 |
| S 4 | 4 37 | 23 52 | 1 44 | 10 54 | 2 54 | 5 19 | 4 26 | 9 57 | 0 14 | 22 34 | 0 39 | 20 10 | 1 29 | 21 53 | 0 4 | 5 55 | 1 12 | 23 55 | 3 56 | 18 7 | 18 27 | 4 31 | 17 31 | 5 55 |
| S 5 | 5 0 | 20 11 | 0 33 | 10 18 | 2 40 | 5 23 | 4 14 | 10 12 | 0 13 | 22 34 | 0 39 | 20 11 | 1 29 | 21 53 | 0 4 | 5 56 | 1 12 | 23 55 | 3 56 | 18 7 | 18 28 | 4 35 | 17 30 | 5 56 |
| M 6 | 5 23 | 15 16 | 0s41 | 9 38 | 2 25 | 5 26 | 4 2 | 10 27 | 0 13 | 22 34 | 0 39 | 20 12 | 1 29 | 21 53 | 0 4 | 5 56 | 1 12 | 23 55 | 3 56 | 18 7 | 18 29 | 4 38 | 17 30 | 5 56 |
| T 7 | 5 47 | 9 21 | 1 56 | 8 55 | 2 7 | 5 29 | 3 51 | 10 43 | 0 12 | 22 34 | 0 39 | 20 13 | 1 29 | 21 52 | 0 4 | 5 57 | 1 12 | 23 55 | 3 56 | 18 8 | 18 30 | 4 41 | 17 29 | 5 57 |
| W 8 | 6 10 | 2 47 | 3 4 | 8 10 | 1 49 | 5 30 | 3 39 | 10 58 | 0 12 | 22 34 | 0 39 | 20 14 | 1 28 | 21 52 | 0 4 | 5 58 | 1 12 | 23 55 | 3 57 | 18 9 | 18 30 | 4 44 | 17 29 | 5 57 |
| T 9 | 6 32 | 4s 3 | 4 0 | 7 24 | 1 29 | 5 31 | 3 28 | 11 13 | 0 11 | 22 34 | 0 39 | 20 15 | 1 28 | 21 52 | 0 4 | 5 58 | 1 12 | 23 55 | 3 57 | 18 11 | 18 31 | 4 47 | 17 28 | 5 58 |
| F 10 | 6 55 | 10 42 | 4 40 | 6 39 | 1 9 | 5 31 | 3 17 | 11 28 | 0 10 | 22 34 | 0 39 | 20 16 | 1 28 | 21 52 | 0 4 | 5 59 | 1 12 | 23 55 | 3 57 | 18 13 | 18 32 | 4 50 | 17 27 | 5 59 |
| S 11 | 7 18 | 16 41 | 5 0 | 5 54 | 0 49 | 5 30 | 3 6 | 11 43 | 0 10 | 22 34 | 0 39 | 20 17 | 1 28 | 21 52 | 0 4 | 5 59 | 1 12 | 23 55 | 3 57 | 18 16 | 18 33 | 4 53 | 17 27 | 5 59 |
| S 12 | 7 41 | 21 33 | 4 59 | 5 12 | 0 28 | 5 29 | 2 55 | 11 57 | 0 9 | 22 34 | 0 39 | 20 18 | 1 28 | 21 51 | 0 4 | 6 0 | 1 12 | 23 55 | 3 57 | 18 19 | 18 34 | 4 57 | 17 26 | 6 0 |
| M13 | 8 3 | 24 56 | 4 38 | 4 33 | 0 8 | 5 26 | 2 44 | 12 12 | 0 9 | 22 34 | 0 39 | 20 19 | 1 28 | 21 51 | 0 4 | 6 0 | 1 12 | 23 55 | 3 58 | 18 21 | 18 34 | 5 0 | 17 26 | 6 0 |
| T 14 | 8 26 | 26 38 | 4 0 | 3 59 | 0n11 | 5 23 | 2 34 | 12 27 | 0 8 | 22 34 | 0 39 | 20 20 | 1 27 | 21 51 | 0 4 | 6 1 | 1 12 | 23 55 | 3 58 | 18 23 | 18 35 | 5 3 | 17 25 | 6 1 |
| W15 | 8 48 | 26 39 | 3 10 | 3 30 | 0 30 | 5 19 | 2 23 | 12 42 | 0 7 | 22 34 | 0 39 | 20 21 | 1 27 | 21 51 | 0 4 | 6 1 | 1 12 | 23 55 | 3 58 | 18 24 | 18 36 | 5 6 | 17 24 | 6 1 |
| T 16 | 9 10 | 25 7 | 2 11 | 3 6 | 0 47 | 5 15 | 2 13 | 12 56 | 0 7 | 22 34 | 0 39 | 20 22 | 1 27 | 21 51 | 0 4 | 6 2 | 1 12 | 23 55 | 3 58 | 18 25 | 18 37 | 5 9 | 17 24 | 6 2 |
| F 17 | 9 32 | 22 20 | 1 8 | 2 48 | 1 2 | 5 10 | 2 3 | 13 11 | 0 6 | 22 34 | 0 39 | 20 23 | 1 27 | 21 50 | 0 4 | 6 2 | 1 12 | 23 55 | 3 58 | 18 25 | 18 38 | 5 12 | 17 23 | 6 2 |
| S 18 | 9 54 | 18 35 | 0 3 | 2 36 | 1 16 | 5 4 | 1 53 | 13 25 | 0 6 | 22 33 | 0 39 | 20 24 | 1 27 | 21 50 | 0 4 | 6 3 | 1 12 | 23 55 | 3 58 | 18 25 | 18 38 | 5 15 | 17 23 | 6 3 |
| S 19 | 10 16 | 14 7 | 1n 1 | 2 30 | 1 28 | 4 57 | 1 44 | 13 39 | 0 5 | 22 33 | 0 39 | 20 25 | 1 27 | 21 50 | 0 4 | 6 3 | 1 12 | 23 55 | 3 59 | 18 25 | 18 39 | 5 18 | 17 22 | 6 4 |
| M20 | 10 37 | 9 12 | 2 1 | 2 29 | 1 38 | 4 50 | 1 34 | 13 53 | 0 4 | 22 33 | 0 39 | 20 26 | 1 27 | 21 50 | 0 4 | 6 4 | 1 12 | 23 55 | 3 59 | 18 25 | 18 40 | 5 21 | 17 22 | 6 4 |
| T 21 | 10 59 | 3 59 | 2 56 | 2 34 | 1 47 | 4 42 | 1 25 | 14 7 | 0 4 | 22 33 | 0 39 | 20 27 | 1 26 | 21 49 | 0 4 | 6 4 | 1 12 | 23 56 | 3 59 | 18 26 | 18 41 | 5 25 | 17 21 | 6 5 |
| W22 | 11 20 | 1n20 | 3 42 | 2 44 | 1 54 | 4 33 | 1 16 | 14 21 | 0 3 | 22 33 | 0 38 | 20 28 | 1 26 | 21 49 | 0 4 | 6 4 | 1 12 | 23 56 | 3 59 | 18 28 | 18 42 | 5 28 | 17 20 | 6 5 |
| T 23 | 11 41 | 6 37 | 4 19 | 2 58 | 2 0 | 4 24 | 1 7 | 14 35 | 0 3 | 22 33 | 0 38 | 20 29 | 1 26 | 21 49 | 0 4 | 6 5 | 1 12 | 23 56 | 3 59 | 18 31 | 18 42 | 5 31 | 17 20 | 6 6 |
| F 24 | 12 2 | 11 40 | 4 44 | 3 16 | 2 4 | 4 14 | 0 58 | 14 49 | 0 2 | 22 33 | 0 38 | 20 30 | 1 26 | 21 49 | 0 4 | 6 5 | 1 12 | 23 56 | 3 59 | 18 34 | 18 43 | 5 34 | 17 19 | 6 6 |
| S 25 | 12 23 | 16 20 | 4 58 | 3 38 | 2 7 | 4 4 | 0 50 | 15 3 | 0 1 | 22 32 | 0 38 | 20 31 | 1 26 | 21 48 | 0 4 | 6 6 | 1 12 | 23 56 | 4 0 | 18 38 | 18 44 | 5 37 | 17 19 | 6 7 |
| S 26 | 12 43 | 20 23 | 4 58 | 4 3 | 2 9 | 3 53 | 0 42 | 15 16 | 0 1 | 22 32 | 0 38 | 20 32 | 1 26 | 21 48 | 0 4 | 6 6 | 1 11 | 23 56 | 4 0 | 18 41 | 18 45 | 5 40 | 17 18 | 6 7 |
| M27 | 13 3 | 23 37 | 4 44 | 4 30 | 2 10 | 3 42 | 0 34 | 15 30 | 0 0 | 22 32 | 0 38 | 20 33 | 1 26 | 21 48 | 0 4 | 6 6 | 1 11 | 23 56 | 4 0 | 18 45 | 18 45 | 5 43 | 17 18 | 6 8 |
| T 28 | 13 24 | 25 47 | 4 17 | 5 0 | 2 10 | 3 29 | 0 26 | 15 43 | 0s 0 | 22 32 | 0 38 | 20 34 | 1 25 | 21 48 | 0 4 | 6 7 | 1 11 | 23 56 | 4 0 | 18 48 | 18 46 | 5 46 | 17 17 | 6 8 |
| W29 | 13 43 | 26 41 | 3 37 | 5 32 | 2 8 | 3 17 | 0 18 | 15 57 | 0 1 | 22 32 | 0 38 | 20 35 | 1 25 | 21 47 | 0 4 | 6 7 | 1 11 | 23 57 | 4 0 | 18 50 | 18 47 | 5 49 | 17 16 | 6 9 |
| T 30 | 14 3 | 26 13 | 2 45 | 6 5 | 2 7 | 3 3 | 0 10 | 16 10 | 0 2 | 22 31 | 0 38 | 20 36 | 1 25 | 21 47 | 0 4 | 6 7 | 1 11 | 23 57 | 4 0 | 18 51 | 18 48 | 5 52 | 17 16 | 6 9 |
| F 31 | 14s23 | 24n19 | 1n45 | 6s40 | 2n 4 | 2n50 | 0s 3 | 16s23 | 0s 2 | 22n31 | 0s38 | 20s37 | 1n25 | 21n47 | 0s 4 | 6s 8 | 1s11 | 23n57 | 4n 1 | 18s52 | 18s49 | 5n56 | 17n15 | 6s10 |

Julian Day Number = 2339324.5, Delta T = 17.16 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'05, Lahiri = 19°34'05Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## NOVEMBER 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 44 44 | 9♏33'14 | 28♋41 | 23♎29 | 23♍38 | 15♏38 | 20°R37 | 10♐21 | 9°R 1 | 17°R16 | 0°R42 | 5°R43 | 5♒55 | 4♈51 | 25°R48 | S 1 |
| S 2 | 2 48 40 | 10°33'29 | 12♌11 | 25° 0 | 24°32 | 16°20 | 20♊33 | 10°28 | 8♊58 | 17♓15 | 0♌42 | 5♒43 | 5°52 | 4°58 | 25♊46 | S 2 |
| M 3 | 2 52 37 | 11°33'45 | 26° 2 | 26°32 | 25°26 | 17° 3 | 20°28 | 10°34 | 8°56 | 17°14 | 0°42 | 5°43 | 5°49 | 5° 5 | 25°44 | M 3 |
| T 4 | 2 56 33 | 12°34'03 | 10♍14 | 28° 5 | 26°20 | 17°45 | 20°23 | 10°41 | 8°54 | 17°13 | 0°42 | 5°40 | 5°46 | 5°11 | 25°41 | T 4 |
| W 5 | 3 0 30 | 13°34'23 | 24°47 | 29°38 | 27°15 | 18°27 | 20°18 | 10°47 | 8°52 | 17°13 | 0°42 | 5°36 | 5°43 | 5°18 | 25°39 | W 5 |
| T 6 | 3 4 27 | 14°34'45 | 9♎36 | 1♏13 | 28°11 | 19°10 | 20°13 | 10°54 | 8°50 | 17°12 | 0°42 | 5°28 | 5°40 | 5°25 | 25°36 | T 6 |
| F 7 | 3 8 23 | 15°35'09 | 24°36 | 2°48 | 29° 8 | 19°52 | 20° 7 | 11° 1 | 8°47 | 17°11 | 0°42 | 5°18 | 5°36 | 5°31 | 25°34 | F 7 |
| S 8 | 3 12 20 | 16°35'35 | 9♏37 | 4°23 | 0♎ 5 | 20°35 | 20° 1 | 11° 7 | 8°45 | 17°11 | 0°41 | 5° 7 | 5°33 | 5°38 | 25°31 | S 8 |
| S 9 | 3 16 16 | 17°36'03 | 24°29 | 5°59 | 1° 2 | 21°17 | 19°56 | 11°14 | 8°43 | 17°10 | 0°41 | 4°55 | 5°30 | 5°45 | 25°28 | S 9 |
| M10 | 3 20 13 | 18°36'32 | 9♐ 4 | 7°34 | 2° 0 | 22° 0 | 19°50 | 11°21 | 8°40 | 17° 9 | 0°41 | 4°45 | 5°27 | 5°51 | 25°26 | M10 |
| T 11 | 3 24 9 | 19°37'03 | 23°15 | 9°10 | 2°59 | 22°43 | 19°44 | 11°27 | 8°38 | 17° 9 | 0°41 | 4°37 | 5°24 | 5°58 | 25°23 | T 11 |
| W12 | 3 28 6 | 20°37'35 | 6♑57 | 10°46 | 3°58 | 23°25 | 19°37 | 11°34 | 8°36 | 17° 8 | 0°40 | 4°31 | 5°20 | 6° 5 | 25°20 | W12 |
| T 13 | 3 32 2 | 21°38'09 | 20°12 | 12°22 | 4°58 | 24° 8 | 19°31 | 11°41 | 8°33 | 17° 8 | 0°40 | 4°28 | 5°17 | 6°12 | 25°17 | T 13 |
| F 14 | 3 35 59 | 22°38'44 | 3♒ 0 | 13°58 | 5°58 | 24°51 | 19°25 | 11°48 | 8°31 | 17° 7 | 0°40 | 4°D27 | 5°14 | 6°18 | 25°14 | F 14 |
| S 15 | 3 39 56 | 23°39'20 | 15°26 | 15°34 | 6°58 | 25°34 | 19°18 | 11°55 | 8°28 | 17° 7 | 0°39 | 4°28 | 5°11 | 6°25 | 25°11 | S 15 |
| S 16 | 3 43 52 | 24°39'57 | 27°35 | 17° 9 | 7°59 | 26°17 | 19°11 | 12° 1 | 8°26 | 17° 6 | 0°39 | 4°R28 | 5° 8 | 6°32 | 25° 8 | S 16 |
| M17 | 3 47 49 | 25°40'35 | 9♓33 | 18°45 | 9° 0 | 27° 0 | 19° 4 | 12° 8 | 8°24 | 17° 6 | 0°38 | 4°27 | 5° 5 | 6°38 | 25° 5 | M17 |
| T 18 | 3 51 45 | 26°41'15 | 21°24 | 20°20 | 10° 2 | 27°43 | 18°57 | 12°15 | 8°21 | 17° 6 | 0°38 | 4°24 | 5° 1 | 6°45 | 25° 1 | T 18 |
| W19 | 3 55 42 | 27°41'55 | 3♈14 | 21°55 | 11° 4 | 28°26 | 18°50 | 12°22 | 8°19 | 17° 5 | 0°38 | 4°18 | 4°58 | 6°52 | 24°58 | W19 |
| T 20 | 3 59 38 | 28°42'37 | 15° 7 | 23°31 | 12° 6 | 29° 9 | 18°43 | 12°29 | 8°16 | 17° 5 | 0°37 | 4°10 | 4°55 | 6°59 | 24°55 | T 20 |
| F 21 | 4 3 35 | 29°43'20 | 27° 5 | 25° 6 | 13° 9 | 29°52 | 18°36 | 12°36 | 8°14 | 17° 5 | 0°37 | 3°59 | 4°52 | 7° 5 | 24°52 | F 21 |
| S 22 | 4 7 31 | 0♐44'04 | 9♉13 | 26°40 | 14°12 | 0♐36 | 18°28 | 12°43 | 8°11 | 17° 5 | 0°36 | 3°47 | 4°49 | 7°12 | 24°48 | S 22 |
| S 23 | 4 11 28 | 1°44'50 | 21°30 | 28°15 | 15°16 | 1°19 | 18°21 | 12°50 | 8° 9 | 17° 4 | 0°35 | 3°35 | 4°46 | 7°19 | 24°45 | S 23 |
| M24 | 4 15 25 | 2°45'36 | 3♊58 | 29°50 | 16°20 | 2° 2 | 18°13 | 12°57 | 8° 6 | 17° 4 | 0°35 | 3°23 | 4°42 | 7°25 | 24°41 | M24 |
| T 25 | 4 19 21 | 3°46'24 | 16°38 | 1♐24 | 17°24 | 2°46 | 18° 6 | 13° 4 | 8° 4 | 17° 4 | 0°34 | 3°14 | 4°39 | 7°32 | 24°38 | T 25 |
| W26 | 4 23 18 | 4°47'14 | 29°28 | 2°59 | 18°29 | 3°29 | 17°58 | 13°11 | 8° 1 | 17° 4 | 0°34 | 3° 6 | 4°36 | 7°39 | 24°34 | W26 |
| T 27 | 4 27 14 | 5°48'04 | 12♋30 | 4°33 | 19°33 | 4°13 | 17°50 | 13°18 | 7°59 | 17°D 4 | 0°33 | 3° 2 | 4°33 | 7°45 | 24°31 | T 27 |
| F 28 | 4 31 11 | 6°48'56 | 25°42 | 6° 7 | 20°39 | 4°56 | 17°42 | 13°25 | 7°56 | 17° 4 | 0°32 | 3° 0 | 4°30 | 7°52 | 24°27 | F 28 |
| S 29 | 4 35 7 | 7°49'49 | 9♌ 5 | 7°42 | 21°44 | 5°40 | 17°34 | 13°32 | 7°53 | 17° 4 | 0°31 | 3°D 0 | 4°26 | 7°59 | 24°23 | S 29 |
| S 30 | 4 39 4 | 8♐50'43 | 22♌41 | 9♐16 | 22♎50 | 6♐24 | 17♊26 | 13♐39 | 7♊51 | 17♓ 4 | 0♌31 | 3♒ 0 | 4♒23 | 8♈ 6 | 24♊20 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s42 | 21n 4 | 0n37 | 7s16 | 2n 1 | 2n36 | 0n 4 | 16s36 | 0s 3 | 22n31 | 0s38 | 20s38 | 1n25 | 21n46 | 0s 4 | 6s 8 | 1s11 | 23n57 | 4n 1 | 18s52 | 18s49 | 5n59 | 17n15 | 6s10 |
| S 2 | 15 1 | 16 38 | 0s34 | 7 53 | 1 57 | 2 21 | 0 11 | 16 48 | 0 3 | 22 31 | 0 38 | 20 39 | 1 25 | 21 46 | 0 4 | 6 8 | 1 11 | 23 57 | 4 1 | 18 52 | 18 50 | 6 2 | 17 14 | 6 11 |
| M 3 | 15 20 | 11 13 | 1 45 | 8 30 | 1 53 | 2 6 | 0 18 | 17 1 | 0 4 | 22 30 | 0 38 | 20 40 | 1 25 | 21 46 | 0 4 | 6 9 | 1 11 | 23 57 | 4 1 | 18 53 | 18 51 | 6 5 | 17 14 | 6 11 |
| T 4 | 15 38 | 5 6 | 2 51 | 9 7 | 1 48 | 1 50 | 0 24 | 17 14 | 0 5 | 22 30 | 0 38 | 20 41 | 1 25 | 21 45 | 0 4 | 6 9 | 1 11 | 23 58 | 4 1 | 18 53 | 18 52 | 6 8 | 17 13 | 6 12 |
| W 5 | 15 56 | 1s25 | 3 48 | 9 45 | 1 43 | 1 34 | 0 31 | 17 26 | 0 5 | 22 30 | 0 38 | 20 43 | 1 24 | 21 45 | 0 4 | 6 9 | 1 11 | 23 58 | 4 2 | 18 54 | 18 53 | 6 11 | 17 12 | 6 12 |
| T 6 | 16 14 | 7 57 | 4 31 | 10 23 | 1 38 | 1 17 | 0 37 | 17 38 | 0 6 | 22 29 | 0 38 | 20 44 | 1 24 | 21 45 | 0 4 | 6 9 | 1 11 | 23 58 | 4 2 | 18 56 | 18 53 | 6 14 | 17 12 | 6 13 |
| F 7 | 16 32 | 14 7 | 4 55 | 11 1 | 1 32 | 1 1 | 0 43 | 17 50 | 0 6 | 22 29 | 0 38 | 20 45 | 1 24 | 21 44 | 0 4 | 6 10 | 1 11 | 23 58 | 4 2 | 18 59 | 18 54 | 6 17 | 17 11 | 6 13 |
| S 8 | 16 50 | 19 27 | 5 0 | 11 39 | 1 26 | 0 43 | 0 49 | 18 2 | 0 7 | 22 29 | 0 38 | 20 46 | 1 24 | 21 44 | 0 4 | 6 10 | 1 11 | 23 58 | 4 2 | 19 1 | 18 55 | 6 20 | 17 11 | 6 14 |
| S 9 | 17 7 | 23 30 | 4 43 | 12 17 | 1 20 | 0 26 | 0 55 | 18 14 | 0 8 | 22 28 | 0 38 | 20 47 | 1 24 | 21 44 | 0 4 | 6 10 | 1 11 | 23 59 | 4 2 | 19 4 | 18 56 | 6 23 | 17 10 | 6 14 |
| M10 | 17 24 | 25 57 | 4 9 | 12 54 | 1 14 | 0 7 | 1 0 | 18 26 | 0 8 | 22 28 | 0 38 | 20 48 | 1 24 | 21 43 | 0 4 | 6 10 | 1 11 | 23 59 | 4 2 | 19 7 | 18 56 | 6 26 | 17 10 | 6 14 |
| T 11 | 17 40 | 26 38 | 3 20 | 13 31 | 1 7 | 0s11 | 1 6 | 18 37 | 0 9 | 22 27 | 0 38 | 20 49 | 1 24 | 21 43 | 0 4 | 6 11 | 1 11 | 23 59 | 4 3 | 19 9 | 18 57 | 6 29 | 17 9 | 6 15 |
| W12 | 17 56 | 25 38 | 2 20 | 14 7 | 1 1 | 0 30 | 1 11 | 18 49 | 0 9 | 22 27 | 0 38 | 20 50 | 1 24 | 21 43 | 0 4 | 6 11 | 1 11 | 23 59 | 4 3 | 19 10 | 18 58 | 6 32 | 17 9 | 6 15 |
| T 13 | 18 12 | 23 12 | 1 15 | 14 43 | 0 54 | 0 49 | 1 16 | 19 0 | 0 10 | 22 27 | 0 38 | 20 51 | 1 24 | 21 42 | 0 4 | 6 11 | 1 11 | 24 0 | 4 3 | 19 11 | 18 59 | 6 36 | 17 8 | 6 16 |
| F 14 | 18 28 | 19 39 | 0 8 | 15 18 | 0 47 | 1 8 | 1 21 | 19 11 | 0 11 | 22 26 | 0 37 | 20 52 | 1 23 | 21 42 | 0 4 | 6 11 | 1 11 | 24 0 | 4 3 | 19 11 | 19 0 | 6 39 | 17 8 | 6 16 |
| S 15 | 18 43 | 15 19 | 0n58 | 15 53 | 0 40 | 1 28 | 1 26 | 19 22 | 0 11 | 22 26 | 0 37 | 20 53 | 1 23 | 21 41 | 0 4 | 6 11 | 1 11 | 24 0 | 4 3 | 19 11 | 19 0 | 6 42 | 17 7 | 6 17 |
| S 16 | 18 58 | 10 27 | 2 0 | 16 27 | 0 34 | 1 48 | 1 30 | 19 33 | 0 12 | 22 25 | 0 37 | 20 54 | 1 23 | 21 41 | 0 4 | 6 11 | 1 11 | 24 0 | 4 3 | 19 11 | 19 1 | 6 45 | 17 7 | 6 17 |
| M17 | 19 13 | 5 18 | 2 55 | 17 0 | 0 27 | 2 8 | 1 34 | 19 43 | 0 12 | 22 25 | 0 37 | 20 55 | 1 23 | 21 41 | 0 4 | 6 11 | 1 11 | 24 1 | 4 4 | 19 11 | 19 2 | 6 48 | 17 6 | 6 17 |
| T 18 | 19 27 | 0 1 | 3 42 | 17 33 | 0 20 | 2 28 | 1 39 | 19 54 | 0 13 | 22 24 | 0 37 | 20 56 | 1 23 | 21 40 | 0 4 | 6 12 | 1 11 | 24 1 | 4 4 | 19 12 | 19 3 | 6 51 | 17 6 | 6 18 |
| W19 | 19 41 | 5n16 | 4 20 | 18 4 | 0 13 | 2 49 | 1 43 | 20 4 | 0 14 | 22 24 | 0 37 | 20 57 | 1 23 | 21 40 | 0 4 | 6 12 | 1 11 | 24 1 | 4 4 | 19 13 | 19 3 | 6 54 | 17 5 | 6 18 |
| T 20 | 19 54 | 10 22 | 4 46 | 18 35 | 0 6 | 3 10 | 1 46 | 20 14 | 0 14 | 22 23 | 0 37 | 20 58 | 1 23 | 21 40 | 0 4 | 6 12 | 1 11 | 24 1 | 4 4 | 19 15 | 19 4 | 6 57 | 17 5 | 6 18 |
| F 21 | 20 8 | 15 7 | 5 0 | 19 5 | 0s 1 | 3 31 | 1 50 | 20 24 | 0 15 | 22 23 | 0 37 | 20 59 | 1 23 | 21 39 | 0 4 | 6 12 | 1 11 | 24 2 | 4 4 | 19 17 | 19 5 | 7 0 | 17 4 | 6 19 |
| S 22 | 20 20 | 19 20 | 5 1 | 19 34 | 0 7 | 3 52 | 1 54 | 20 34 | 0 15 | 22 22 | 0 37 | 21 0 | 1 23 | 21 39 | 0 4 | 6 12 | 1 11 | 24 2 | 4 4 | 19 20 | 19 6 | 7 3 | 17 4 | 6 19 |
| S 23 | 20 33 | 22 48 | 4 48 | 20 2 | 0 14 | 4 13 | 1 57 | 20 43 | 0 16 | 22 22 | 0 37 | 21 1 | 1 23 | 21 38 | 0 4 | 6 12 | 1 11 | 24 2 | 4 5 | 19 23 | 19 6 | 7 6 | 17 3 | 6 19 |
| M24 | 20 45 | 25 15 | 4 21 | 20 29 | 0 21 | 4 35 | 2 0 | 20 53 | 0 17 | 22 21 | 0 37 | 21 2 | 1 23 | 21 38 | 0 4 | 6 12 | 1 11 | 24 3 | 4 5 | 19 26 | 19 7 | 7 9 | 17 3 | 6 20 |
| T 25 | 20 56 | 26 28 | 3 41 | 20 55 | 0 27 | 4 57 | 2 3 | 21 2 | 0 17 | 22 20 | 0 37 | 21 2 | 1 23 | 21 38 | 0 4 | 6 12 | 1 11 | 24 3 | 4 5 | 19 28 | 19 8 | 7 12 | 17 3 | 6 20 |
| W26 | 21 8 | 26 18 | 2 49 | 21 20 | 0 34 | 5 19 | 2 6 | 21 11 | 0 18 | 22 20 | 0 36 | 21 3 | 1 22 | 21 37 | 0 4 | 6 12 | 1 11 | 24 3 | 4 5 | 19 30 | 19 9 | 7 15 | 17 2 | 6 20 |
| T 27 | 21 19 | 24 41 | 1 47 | 21 44 | 0 40 | 5 41 | 2 9 | 21 20 | 0 18 | 22 19 | 0 36 | 21 4 | 1 22 | 21 37 | 0 4 | 6 12 | 1 11 | 24 3 | 4 5 | 19 31 | 19 9 | 7 18 | 17 2 | 6 21 |
| F 28 | 21 29 | 21 41 | 0 39 | 22 7 | 0 46 | 6 3 | 2 11 | 21 28 | 0 19 | 22 19 | 0 36 | 21 5 | 1 22 | 21 36 | 0 4 | 6 12 | 1 11 | 24 4 | 4 5 | 19 31 | 19 10 | 7 21 | 17 1 | 6 21 |
| S 29 | 21 39 | 17 29 | 0s33 | 22 29 | 0 52 | 6 25 | 2 14 | 21 37 | 0 20 | 22 18 | 0 36 | 21 6 | 1 22 | 21 36 | 0 4 | 6 12 | 1 11 | 24 4 | 4 6 | 19 31 | 19 11 | 7 24 | 17 1 | 6 21 |
| S 30 | 21s49 | 12n20 | 1s44 | 22s50 | 0s58 | 6s47 | 2n16 | 21s45 | 0s20 | 22n17 | 0s36 | 21s 7 | 1n22 | 21n36 | 0s 4 | 6s12 | 1s11 | 24n 4 | 4n 6 | 19s31 | 19s12 | 7n27 | 17n 0 | 6s21 |

Julian Day Number = 2339355.5, Delta T = 17.12 sec
Ecliptic obliquity = 23°28'51, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'09, Lahiri = 19°34'10Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1692
# geocentric

## DECEMBER 1692 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 43 0 | 9♐51'39 | 6♍30 | 10♐50 | 23♎56 | 7♐ 7 | 17°R18 | 13♐46 | 7°R48 | 17♓ 4 | 0°R30 | 3°R 1 | 4♒20 | 8♈12 | 24°R16 | M 1 |
| T 2 | 4 46 57 | 10°52'36 | 20°33 | 12°24 | 25° 2 | 7°51 | 17♊10 | 13°53 | 7♊46 | 17° 4 | 0♌29 | 3♒ 1 | 4°17 | 8°19 | 24♊12 | T 2 |
| W 3 | 4 50 54 | 11°53'34 | 4♎49 | 13°58 | 26° 8 | 8°35 | 17° 2 | 14° 0 | 7°43 | 17° 5 | 0°28 | 2°58 | 4°14 | 8°26 | 24° 8 | W 3 |
| T 4 | 4 54 50 | 12°54'34 | 19°15 | 15°33 | 27°15 | 9°19 | 16°54 | 14° 7 | 7°41 | 17° 5 | 0°28 | 2°54 | 4°11 | 8°32 | 24° 5 | T 4 |
| F 5 | 4 58 47 | 13°55'35 | 3♏49 | 17° 7 | 28°22 | 10° 3 | 16°46 | 14°14 | 7°38 | 17° 5 | 0°27 | 2°47 | 4° 7 | 8°39 | 24° 1 | F 5 |
| S 6 | 5 2 43 | 14°56'36 | 18°23 | 18°41 | 29°29 | 10°47 | 16°37 | 14°22 | 7°36 | 17° 5 | 0°26 | 2°40 | 4° 4 | 8°46 | 23°57 | S 6 |
| S 7 | 5 6 40 | 15°57'39 | 2♑52 | 20°16 | 0♏37 | 11°31 | 16°29 | 14°29 | 7°33 | 17° 6 | 0°25 | 2°32 | 4° 1 | 8°53 | 23°53 | S 7 |
| M 8 | 5 10 36 | 16°58'43 | 17° 9 | 21°50 | 1°44 | 12°15 | 16°21 | 14°36 | 7°31 | 17° 6 | 0°24 | 2°24 | 3°58 | 8°59 | 23°49 | M 8 |
| T 9 | 5 14 33 | 17°59'48 | 1♉ 7 | 23°25 | 2°52 | 12°59 | 16°13 | 14°43 | 7°28 | 17° 6 | 0°23 | 2°19 | 3°55 | 9° 6 | 23°45 | T 9 |
| W10 | 5 18 29 | 19° 0'53 | 14°44 | 25° 0 | 4° 0 | 13°43 | 16° 5 | 14°50 | 7°26 | 17° 7 | 0°22 | 2°15 | 3°52 | 9°13 | 23°41 | W10 |
| T 11 | 5 22 26 | 20° 1'59 | 27°57 | 26°35 | 5° 9 | 14°27 | 15°57 | 14°57 | 7°23 | 17° 7 | 0°21 | 2°D14 | 3°48 | 9°19 | 23°37 | T 11 |
| F 12 | 5 26 23 | 21° 3'05 | 10♒47 | 28°10 | 6°17 | 15°12 | 15°48 | 15° 4 | 7°21 | 17° 8 | 0°20 | 2°14 | 3°45 | 9°26 | 23°34 | F 12 |
| S 13 | 5 30 19 | 22° 4'11 | 23°16 | 29°45 | 7°26 | 15°56 | 15°40 | 15°11 | 7°18 | 17° 8 | 0°19 | 2°15 | 3°42 | 9°33 | 23°30 | S 13 |
| S 14 | 5 34 16 | 23° 5'18 | 5♓29 | 1♉20 | 8°34 | 16°40 | 15°32 | 15°18 | 7°16 | 17° 9 | 0°18 | 2°17 | 3°39 | 9°40 | 23°26 | S 14 |
| M15 | 5 38 12 | 24° 6'25 | 17°29 | 2°55 | 9°43 | 17°25 | 15°24 | 15°25 | 7°13 | 17° 9 | 0°17 | 2°18 | 3°36 | 9°46 | 23°22 | M15 |
| T 16 | 5 42 9 | 25° 7'33 | 29°22 | 4°31 | 10°52 | 18° 9 | 15°16 | 15°32 | 7°11 | 17°10 | 0°16 | 2°R18 | 3°32 | 9°53 | 23°18 | T 16 |
| W17 | 5 46 5 | 26° 8'40 | 11♈14 | 6° 6 | 12° 2 | 18°54 | 15° 8 | 15°39 | 7° 9 | 17°11 | 0°15 | 2°17 | 3°29 | 10° 0 | 23°14 | W17 |
| T 18 | 5 50 2 | 27° 9'48 | 23° 8 | 7°42 | 13°11 | 19°38 | 15° 1 | 15°46 | 7° 6 | 17°11 | 0°14 | 2°14 | 3°26 | 10° 6 | 23°10 | T 18 |
| F 19 | 5 53 59 | 28°10'56 | 5♉ 9 | 9°17 | 14°21 | 20°23 | 14°53 | 15°53 | 7° 4 | 17°12 | 0°13 | 2° 9 | 3°23 | 10°13 | 23° 6 | F 19 |
| S 20 | 5 57 55 | 29°12'04 | 17°21 | 10°52 | 15°30 | 21° 7 | 14°45 | 16° 0 | 7° 2 | 17°13 | 0°12 | 2° 4 | 3°20 | 10°20 | 23° 2 | S 20 |
| S 21 | 6 1 52 | 0♉13'12 | 29°46 | 12°28 | 16°40 | 21°52 | 14°38 | 16° 7 | 6°59 | 17°14 | 0°11 | 1°58 | 3°17 | 10°27 | 22°58 | S 21 |
| M22 | 6 5 48 | 1°14'20 | 12♊26 | 14° 3 | 17°50 | 22°37 | 14°30 | 16°14 | 6°57 | 17°15 | 0° 9 | 1°52 | 3°13 | 10°33 | 22°54 | M22 |
| T 23 | 6 9 45 | 2°15'29 | 25°23 | 15°38 | 19° 0 | 23°21 | 14°23 | 16°21 | 6°55 | 17°15 | 0° 8 | 1°48 | 3°10 | 10°40 | 22°50 | T 23 |
| W24 | 6 13 41 | 3°16'38 | 8♋34 | 17°12 | 20°10 | 24° 6 | 14°15 | 16°28 | 6°53 | 17°16 | 0° 7 | 1°44 | 3° 7 | 10°47 | 22°47 | W24 |
| T 25 | 6 17 38 | 4°17'47 | 22° 0 | 18°46 | 21°21 | 24°51 | 14° 8 | 16°35 | 6°51 | 17°17 | 0° 6 | 1°43 | 3° 4 | 10°53 | 22°43 | T 25 |
| F 26 | 6 21 34 | 5°18'56 | 5♌38 | 20°20 | 22°31 | 25°36 | 14° 1 | 16°42 | 6°48 | 17°18 | 0° 5 | 1°D42 | 3° 1 | 11° 0 | 22°39 | F 26 |
| S 27 | 6 25 31 | 6°20'05 | 19°26 | 21°53 | 23°42 | 26°21 | 13°54 | 16°48 | 6°46 | 17°19 | 0° 4 | 1°43 | 2°58 | 11° 7 | 22°35 | S 27 |
| S 28 | 6 29 28 | 7°21'15 | 3♍22 | 23°24 | 24°53 | 27° 6 | 13°47 | 16°55 | 6°44 | 17°20 | 0° 2 | 1°45 | 2°54 | 11°14 | 22°31 | S 28 |
| M29 | 6 33 24 | 8°22'24 | 17°24 | 24°55 | 26° 3 | 27°51 | 13°40 | 17° 2 | 6°42 | 17°21 | 0° 1 | 1°46 | 2°51 | 11°20 | 22°28 | M29 |
| T 30 | 6 37 21 | 9°23'34 | 1♎32 | 26°24 | 27°14 | 28°36 | 13°33 | 17° 9 | 6°40 | 17°22 | 29♋59 | 1°47 | 2°48 | 11°27 | 22°24 | T 30 |
| W31 | 6 41 17 | 10♉24'45 | 15♎42 | 27♉51 | 28♏25 | 29♐21 | 13♊27 | 17♐15 | 6♊38 | 17♓23 | 29♋59 | 1°R47 | 2♒45 | 11♈34 | 22♊20 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s58 | 6n30 | 2s50 | 23s10 | 1s 4 | 7s 9 | 2n18 | 21s53 | 0s21 | 22n17 | 0s36 | 21s 8 | 1n22 | 21n35 | 0s 4 | 6s12 | 1s10 | 24n 5 | 4n 6 | 19s31 | 19s13 | 7n30 | 17n 0 | 6s22 |
| T 2 | 22 7 | 0 16 | 3 47 | 23 28 | 1 10 | 7 32 | 2 20 | 22 1 | 0 21 | 22 16 | 0 36 | 21 9 | 1 22 | 21 35 | 0 4 | 6 12 | 1 10 | 24 5 | 4 6 | 19 31 | 19 13 | 7 33 | 17 0 | 6 22 |
| W 3 | 22 15 | 6s 4 | 4 31 | 23 46 | 1 15 | 7 54 | 2 22 | 22 8 | 0 22 | 22 15 | 0 36 | 21 10 | 1 22 | 21 34 | 0 4 | 6 12 | 1 10 | 24 5 | 4 6 | 19 32 | 19 14 | 7 36 | 16 59 | 6 22 |
| T 4 | 22 23 | 12 9 | 4 58 | 24 2 | 1 21 | 8 17 | 2 24 | 22 16 | 0 23 | 22 15 | 0 35 | 21 11 | 1 22 | 21 34 | 0 4 | 6 11 | 1 10 | 24 6 | 4 6 | 19 33 | 19 15 | 7 39 | 16 59 | 6 22 |
| F 5 | 22 31 | 17 37 | 5 7 | 24 17 | 1 26 | 8 39 | 2 25 | 22 23 | 0 23 | 22 14 | 0 35 | 21 12 | 1 22 | 21 34 | 0 4 | 6 11 | 1 10 | 24 6 | 4 7 | 19 34 | 19 16 | 7 42 | 16 58 | 6 23 |
| S 6 | 22 38 | 22 4 | 4 56 | 24 30 | 1 31 | 9 1 | 2 27 | 22 30 | 0 24 | 22 13 | 0 35 | 21 12 | 1 22 | 21 33 | 0 4 | 6 11 | 1 10 | 24 6 | 4 7 | 19 36 | 19 16 | 7 45 | 16 58 | 6 23 |
| S 7 | 22 44 | 25 6 | 4 25 | 24 42 | 1 35 | 9 24 | 2 28 | 22 36 | 0 24 | 22 13 | 0 35 | 21 13 | 1 22 | 21 33 | 0 4 | 6 11 | 1 10 | 24 7 | 4 7 | 19 38 | 19 17 | 7 48 | 16 58 | 6 23 |
| M 8 | 22 51 | 26 29 | 3 39 | 24 53 | 1 40 | 9 46 | 2 29 | 22 43 | 0 25 | 22 12 | 0 35 | 21 14 | 1 22 | 21 32 | 0 4 | 6 11 | 1 10 | 24 7 | 4 7 | 19 39 | 19 18 | 7 51 | 16 57 | 6 23 |
| T 9 | 22 56 | 26 9 | 2 40 | 25 3 | 1 44 | 10 8 | 2 30 | 22 49 | 0 26 | 22 11 | 0 35 | 21 15 | 1 22 | 21 32 | 0 4 | 6 11 | 1 10 | 24 7 | 4 7 | 19 41 | 19 19 | 7 54 | 16 57 | 6 23 |
| W10 | 23 2 | 24 13 | 1 33 | 25 11 | 1 48 | 10 30 | 2 31 | 22 55 | 0 26 | 22 11 | 0 35 | 21 16 | 1 22 | 21 32 | 0 4 | 6 10 | 1 10 | 24 8 | 4 7 | 19 42 | 19 19 | 7 57 | 16 57 | 6 23 |
| T 11 | 23 6 | 20 59 | 0 23 | 25 18 | 1 52 | 10 52 | 2 32 | 23 1 | 0 27 | 22 10 | 0 34 | 21 17 | 1 22 | 21 31 | 0 4 | 6 10 | 1 10 | 24 8 | 4 7 | 19 42 | 19 20 | 8 0 | 16 56 | 6 24 |
| F 12 | 23 11 | 16 49 | 0n46 | 25 23 | 1 55 | 11 14 | 2 32 | 23 7 | 0 27 | 22 9 | 0 34 | 21 18 | 1 21 | 21 31 | 0 4 | 6 10 | 1 10 | 24 8 | 4 8 | 19 42 | 19 21 | 8 3 | 16 56 | 6 24 |
| S 13 | 23 15 | 12 1 | 1 52 | 25 27 | 1 58 | 11 36 | 2 33 | 23 12 | 0 28 | 22 9 | 0 34 | 21 18 | 1 21 | 21 30 | 0 4 | 6 10 | 1 10 | 24 9 | 4 8 | 19 41 | 19 22 | 8 6 | 16 56 | 6 24 |
| S 14 | 23 18 | 6 52 | 2 51 | 25 30 | 2 1 | 11 58 | 2 33 | 23 17 | 0 29 | 22 8 | 0 34 | 21 19 | 1 21 | 21 30 | 0 4 | 6 10 | 1 10 | 24 9 | 4 8 | 19 41 | 19 22 | 8 9 | 16 55 | 6 24 |
| M15 | 23 21 | 1 33 | 3 41 | 25 31 | 2 4 | 12 19 | 2 34 | 23 22 | 0 29 | 22 7 | 0 34 | 21 20 | 1 21 | 21 30 | 0 4 | 6 9 | 1 10 | 24 10 | 4 8 | 19 41 | 19 23 | 8 12 | 16 55 | 6 24 |
| T 16 | 23 23 | 3n45 | 4 22 | 25 30 | 2 6 | 12 41 | 2 34 | 23 27 | 0 30 | 22 6 | 0 34 | 21 21 | 1 21 | 21 29 | 0 4 | 6 9 | 1 10 | 24 10 | 4 8 | 19 41 | 19 24 | 8 15 | 16 55 | 6 24 |
| W17 | 23 25 | 8 54 | 4 51 | 25 28 | 2 8 | 13 2 | 2 34 | 23 31 | 0 30 | 22 6 | 0 34 | 21 22 | 1 21 | 21 29 | 0 4 | 6 9 | 1 10 | 24 10 | 4 8 | 19 41 | 19 24 | 8 18 | 16 55 | 6 24 |
| T 18 | 23 27 | 13 45 | 5 7 | 25 25 | 2 10 | 13 23 | 2 34 | 23 35 | 0 31 | 22 5 | 0 33 | 21 22 | 1 21 | 21 28 | 0 4 | 6 8 | 1 10 | 24 11 | 4 8 | 19 42 | 19 25 | 8 21 | 16 54 | 6 24 |
| F 19 | 23 28 | 18 8 | 5 11 | 25 20 | 2 11 | 13 44 | 2 33 | 23 39 | 0 31 | 22 4 | 0 33 | 21 23 | 1 21 | 21 28 | 0 4 | 6 8 | 1 10 | 24 11 | 4 9 | 19 43 | 19 26 | 8 24 | 16 54 | 6 24 |
| S 20 | 23 29 | 21 50 | 5 0 | 25 13 | 2 11 | 14 4 | 2 33 | 23 43 | 0 32 | 22 4 | 0 33 | 21 24 | 1 21 | 21 28 | 0 4 | 6 8 | 1 10 | 24 11 | 4 9 | 19 44 | 19 27 | 8 27 | 16 54 | 6 24 |
| S 21 | 23 29 | 24 37 | 4 36 | 25 5 | 2 11 | 14 25 | 2 32 | 23 46 | 0 33 | 22 3 | 0 33 | 21 25 | 1 21 | 21 27 | 0 4 | 6 7 | 1 10 | 24 12 | 4 9 | 19 45 | 19 27 | 8 30 | 16 54 | 6 24 |
| M22 | 23 28 | 26 15 | 3 57 | 24 55 | 2 11 | 14 45 | 2 32 | 23 50 | 0 33 | 22 2 | 0 33 | 21 25 | 1 21 | 21 27 | 0 4 | 6 7 | 1 10 | 24 12 | 4 9 | 19 47 | 19 28 | 8 33 | 16 53 | 6 24 |
| T 23 | 23 28 | 26 30 | 3 6 | 24 43 | 2 10 | 15 5 | 2 31 | 23 53 | 0 34 | 22 2 | 0 32 | 21 26 | 1 21 | 21 27 | 0 4 | 6 7 | 1 10 | 24 12 | 4 9 | 19 48 | 19 29 | 8 36 | 16 53 | 6 25 |
| W24 | 23 26 | 25 15 | 2 3 | 24 30 | 2 9 | 15 24 | 2 30 | 23 55 | 0 34 | 22 1 | 0 32 | 21 27 | 1 21 | 21 26 | 0 4 | 6 6 | 1 10 | 24 13 | 4 9 | 19 48 | 19 30 | 8 39 | 16 53 | 6 25 |
| T 25 | 23 25 | 22 33 | 0 53 | 24 16 | 2 7 | 15 43 | 2 29 | 23 58 | 0 35 | 22 0 | 0 32 | 21 27 | 1 21 | 21 26 | 0 4 | 6 6 | 1 10 | 24 13 | 4 9 | 19 49 | 19 30 | 8 42 | 16 53 | 6 25 |
| F 26 | 23 22 | 18 33 | 0s22 | 24 0 | 2 5 | 16 2 | 2 28 | 24 0 | 0 36 | 22 0 | 0 32 | 21 28 | 1 21 | 21 26 | 0 4 | 6 6 | 1 10 | 24 14 | 4 9 | 19 49 | 19 31 | 8 45 | 16 53 | 6 24 |
| S 27 | 23 20 | 13 30 | 1 36 | 23 42 | 2 2 | 16 21 | 2 27 | 24 2 | 0 36 | 21 59 | 0 32 | 21 29 | 1 21 | 21 25 | 0 4 | 6 5 | 1 10 | 24 14 | 4 10 | 19 49 | 19 32 | 8 48 | 16 52 | 6 24 |
| S 28 | 23 17 | 7 43 | 2 45 | 23 23 | 1 58 | 16 39 | 2 26 | 24 4 | 0 37 | 21 58 | 0 32 | 21 30 | 1 21 | 21 25 | 0 4 | 6 5 | 1 10 | 24 14 | 4 10 | 19 48 | 19 33 | 8 51 | 16 52 | 6 24 |
| M29 | 23 13 | 1 31 | 3 45 | 23 3 | 1 53 | 16 57 | 2 25 | 24 5 | 0 37 | 21 58 | 0 31 | 21 30 | 1 21 | 21 25 | 0 4 | 6 4 | 1 10 | 24 15 | 4 10 | 19 48 | 19 33 | 8 54 | 16 52 | 6 24 |
| T 30 | 23 9 | 4s46 | 4 32 | 22 41 | 1 48 | 17 15 | 2 23 | 24 6 | 0 38 | 21 57 | 0 31 | 21 31 | 1 21 | 21 24 | 0 3 | 6 4 | 1 10 | 24 15 | 4 10 | 19 48 | 19 34 | 8 57 | 16 52 | 6 24 |
| W31 | 23s 4 | 10s50 | 5s 3 | 22s18 | 1s42 | 17s32 | 2n22 | 24s 7 | 0s38 | 21n56 | 0s31 | 21s32 | 1n21 | 21n24 | 0s 3 | 6s 3 | 1s10 | 24n16 | 4n10 | 19s48 | 19s35 | 9n 0 | 16n52 | 6s24 |

Julian Day Number = 2339385.5, Delta T = 17.08 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'13, Lahiri = 19°34'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## JANUARY 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 45 14 | 11♉25'55 | 29♎53 | 29♉16 | 29♏37 | 0♉ 6 | 13°R20 | 17♐22 | 6°R36 | 17♓25 | 29°R57 | 1°R46 | 2♒42 | 11♈40 | 22°R17 | T 1 |
| F 2 | 6 49 10 | 12°27'06 | 14♏ 3 | 0♒39 | 0♐48 | 0°52 | 13♊14 | 17°29 | 6♊34 | 17°26 | 29♋56 | 1♒44 | 2°38 | 11°47 | 22♊13 | F 2 |
| S 3 | 6 53 7 | 13°28'17 | 28° 9 | 1°58 | 1°59 | 1°37 | 13° 8 | 17°35 | 6°32 | 17°27 | 29°55 | 1°42 | 2°35 | 11°54 | 22° 9 | S 3 |
| S 4 | 6 57 3 | 14°29'28 | 12♐ 7 | 3°14 | 3°11 | 2°22 | 13° 2 | 17°42 | 6°30 | 17°28 | 29°53 | 1°39 | 2°32 | 12° 1 | 22° 6 | S 4 |
| M 5 | 7 1 0 | 15°30'39 | 25°55 | 4°25 | 4°22 | 3° 7 | 12°56 | 17°49 | 6°29 | 17°30 | 29°52 | 1°37 | 2°29 | 12° 7 | 22° 2 | M 5 |
| T 6 | 7 4 57 | 16°31'49 | 9♉30 | 5°31 | 5°34 | 3°53 | 12°51 | 17°55 | 6°27 | 17°31 | 29°51 | 1°35 | 2°26 | 12°14 | 21°59 | T 6 |
| W 7 | 7 8 53 | 17°33'00 | 22°48 | 6°32 | 6°45 | 4°38 | 12°45 | 18° 2 | 6°25 | 17°32 | 29°50 | 1°34 | 2°23 | 12°21 | 21°55 | W 7 |
| T 8 | 7 12 50 | 18°34'09 | 5♒49 | 7°26 | 7°57 | 5°24 | 12°40 | 18° 8 | 6°23 | 17°33 | 29°48 | 1°D34 | 2°19 | 12°27 | 21°52 | T 8 |
| F 9 | 7 16 46 | 19°35'19 | 18°32 | 8°12 | 9° 9 | 6° 9 | 12°35 | 18°14 | 6°22 | 17°35 | 29°47 | 1°35 | 2°16 | 12°34 | 21°49 | F 9 |
| S 10 | 7 20 43 | 20°36'27 | 1♓ 0 | 8°50 | 10°21 | 6°55 | 12°30 | 18°21 | 6°20 | 17°36 | 29°46 | 1°36 | 2°13 | 12°41 | 21°45 | S 10 |
| S 11 | 7 24 39 | 21°37'35 | 13°12 | 9°19 | 11°33 | 7°40 | 12°25 | 18°27 | 6°18 | 17°38 | 29°44 | 1°37 | 2°10 | 12°48 | 21°42 | S 11 |
| M12 | 7 28 36 | 22°38'43 | 25°14 | 9°38 | 12°45 | 8°26 | 12°20 | 18°33 | 6°17 | 17°39 | 29°43 | 1°38 | 2° 7 | 12°54 | 21°39 | M12 |
| T 13 | 7 32 32 | 23°39'49 | 7♈ 9 | 9°R46 | 13°57 | 9°11 | 12°16 | 18°40 | 6°15 | 17°41 | 29°42 | 1°39 | 2° 4 | 13° 1 | 21°36 | T 13 |
| W14 | 7 36 29 | 24°40'55 | 19° 0 | 9°42 | 15° 9 | 9°57 | 12°11 | 18°46 | 6°14 | 17°42 | 29°40 | 1°39 | 2° 0 | 13° 8 | 21°33 | W14 |
| T 15 | 7 40 26 | 25°41'59 | 0♉54 | 9°27 | 16°22 | 10°43 | 12° 7 | 18°52 | 6°13 | 17°44 | 29°39 | 1°R39 | 1°57 | 13°14 | 21°30 | T 15 |
| F 16 | 7 44 22 | 26°43'03 | 12°55 | 9° 1 | 17°34 | 11°29 | 12° 3 | 18°58 | 6°11 | 17°45 | 29°37 | 1°39 | 1°54 | 13°21 | 21°27 | F 16 |
| S 17 | 7 48 19 | 27°44'06 | 25° 7 | 8°23 | 18°46 | 12°14 | 12° 0 | 19° 4 | 6°10 | 17°47 | 29°36 | 1°38 | 1°51 | 13°28 | 21°24 | S 17 |
| S 18 | 7 52 15 | 28°45'08 | 7♊34 | 7°35 | 19°59 | 13° 0 | 11°56 | 19°10 | 6° 9 | 17°49 | 29°35 | 1°38 | 1°48 | 13°35 | 21°21 | S 18 |
| M19 | 7 56 12 | 29°46'09 | 20°19 | 6°37 | 21°11 | 13°46 | 11°53 | 19°16 | 6° 7 | 17°50 | 29°33 | 1°38 | 1°44 | 13°41 | 21°18 | M19 |
| T 20 | 8 0 8 | 0♒47'09 | 3♋25 | 5°32 | 22°24 | 14°32 | 11°50 | 19°22 | 6° 6 | 17°52 | 29°32 | 1°38 | 1°41 | 13°48 | 21°15 | T 20 |
| W21 | 8 4 5 | 1°48'08 | 16°53 | 4°21 | 23°36 | 15°18 | 11°47 | 19°28 | 6° 5 | 17°54 | 29°31 | 1°D37 | 1°38 | 13°55 | 21°13 | W21 |
| T 22 | 8 8 2 | 2°49'06 | 0♌40 | 3° 7 | 24°49 | 16° 4 | 11°44 | 19°34 | 6° 4 | 17°55 | 29°29 | 1°R38 | 1°35 | 14° 1 | 21°10 | T 22 |
| F 23 | 8 11 58 | 3°50'03 | 14°44 | 1°51 | 26° 1 | 16°50 | 11°41 | 19°39 | 6° 3 | 17°57 | 29°28 | 1°37 | 1°32 | 14° 8 | 21° 8 | F 23 |
| S 24 | 8 15 55 | 4°50'59 | 29° 2 | 0°36 | 27°14 | 17°36 | 11°39 | 19°45 | 6° 2 | 17°59 | 29°27 | 1°37 | 1°29 | 14°15 | 21° 5 | S 24 |
| S 25 | 8 19 51 | 5°51'54 | 13♍28 | 29♉25 | 28°27 | 18°22 | 11°37 | 19°51 | 6° 1 | 18° 1 | 29°25 | 1°37 | 1°25 | 14°22 | 21° 3 | S 25 |
| M26 | 8 23 48 | 6°52'49 | 27°56 | 28°18 | 29°40 | 19° 8 | 11°35 | 19°56 | 6° 0 | 18° 2 | 29°24 | 1°36 | 1°22 | 14°28 | 21° 0 | M26 |
| T 27 | 8 27 44 | 7°53'42 | 12♎23 | 27°17 | 0♉52 | 19°54 | 11°33 | 20° 2 | 5°59 | 18° 4 | 29°23 | 1°36 | 1°19 | 14°35 | 20°58 | T 27 |
| W28 | 8 31 41 | 8°54'35 | 26°43 | 26°23 | 2° 5 | 20°40 | 11°32 | 20° 7 | 5°58 | 18° 6 | 29°21 | 1°35 | 1°16 | 14°42 | 20°56 | W28 |
| T 29 | 8 35 37 | 9°55'27 | 10♏53 | 25°38 | 3°18 | 21°26 | 11°30 | 20°13 | 5°58 | 18° 8 | 29°20 | 1°D35 | 1°13 | 14°48 | 20°54 | T 29 |
| F 30 | 8 39 34 | 10°56'18 | 24°52 | 25° 1 | 4°31 | 22°12 | 11°29 | 20°18 | 5°57 | 18°10 | 29°19 | 1°35 | 1°10 | 14°55 | 20°52 | F 30 |
| S 31 | 8 43 31 | 11♒57'09 | 8♐38 | 24♉32 | 5♉44 | 22♉59 | 11♊28 | 20♐23 | 5♊56 | 18♓12 | 29♋17 | 1♒36 | 1♒ 6 | 15♈ 2 | 20♊50 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22s59 | 16s21 | 5s15 | 21s53 | 1s35 | 17s49 | 2n20 | 24s 8 | 0s39 | 21n56 | 0s31 | 21s32 | 1n21 | 21n24 | 0s 3 | 6s 3 | 1s10 | 24n16 | 4n10 | 19s48 | 19s35 | 9n 3 | 16n52 | 6s24 |
| F 2 | 22 54 | 20 58 | 5 8 | 21 28 | 1 27 | 18 5 | 2 19 | 24 8 | 0 39 | 21 55 | 0 31 | 21 33 | 1 21 | 21 23 | 0 3 | 6 2 | 1 9 | 24 16 | 4 10 | 19 48 | 19 36 | 9 5 | 16 52 | 6 24 |
| S 3 | 22 48 | 24 22 | 4 42 | 21 2 | 1 19 | 18 21 | 2 17 | 24 8 | 0 40 | 21 55 | 0 30 | 21 33 | 1 21 | 21 23 | 0 3 | 6 2 | 1 9 | 24 17 | 4 10 | 19 49 | 19 37 | 9 8 | 16 52 | 6 24 |
| S 4 | 22 41 | 26 15 | 4 0 | 20 35 | 1 9 | 18 37 | 2 15 | 24 8 | 0 41 | 21 54 | 0 30 | 21 34 | 1 21 | 21 23 | 0 3 | 6 1 | 1 9 | 24 17 | 4 10 | 19 50 | 19 38 | 9 11 | 16 51 | 6 24 |
| M 5 | 22 35 | 26 29 | 3 4 | 20 8 | 0 58 | 18 52 | 2 13 | 24 8 | 0 41 | 21 54 | 0 30 | 21 35 | 1 21 | 21 22 | 0 3 | 6 1 | 1 9 | 24 17 | 4 11 | 19 50 | 19 38 | 9 14 | 16 51 | 6 24 |
| T 6 | 22 27 | 25 7 | 1 59 | 19 41 | 0 47 | 19 7 | 2 11 | 24 7 | 0 42 | 21 53 | 0 30 | 21 35 | 1 21 | 21 22 | 0 3 | 6 0 | 1 9 | 24 18 | 4 11 | 19 50 | 19 39 | 9 17 | 16 51 | 6 24 |
| W 7 | 22 20 | 22 21 | 0 48 | 19 13 | 0 34 | 19 21 | 2 9 | 24 6 | 0 42 | 21 53 | 0 30 | 21 36 | 1 21 | 21 22 | 0 3 | 6 0 | 1 9 | 24 18 | 4 11 | 19 51 | 19 40 | 9 20 | 16 51 | 6 23 |
| T 8 | 22 11 | 18 28 | 0n23 | 18 46 | 0 20 | 19 35 | 2 7 | 24 5 | 0 43 | 21 52 | 0 29 | 21 36 | 1 21 | 21 21 | 0 3 | 5 59 | 1 9 | 24 19 | 4 11 | 19 51 | 19 41 | 9 23 | 16 51 | 6 23 |
| F 9 | 22 3 | 13 50 | 1 33 | 18 20 | 0 6 | 19 48 | 2 5 | 24 3 | 0 43 | 21 52 | 0 29 | 21 37 | 1 21 | 21 21 | 0 3 | 5 59 | 1 9 | 24 19 | 4 11 | 19 51 | 19 41 | 9 26 | 16 51 | 6 23 |
| S 10 | 21 54 | 8 43 | 2 36 | 17 55 | 0n10 | 20 1 | 2 3 | 24 2 | 0 44 | 21 51 | 0 29 | 21 37 | 1 21 | 21 21 | 0 3 | 5 58 | 1 9 | 24 19 | 4 11 | 19 50 | 19 42 | 9 29 | 16 51 | 6 23 |
| S 11 | 21 44 | 3 22 | 3 31 | 17 32 | 0 27 | 20 13 | 2 0 | 24 0 | 0 44 | 21 51 | 0 29 | 21 38 | 1 21 | 21 21 | 0 3 | 5 58 | 1 9 | 24 20 | 4 11 | 19 50 | 19 43 | 9 32 | 16 51 | 6 23 |
| M12 | 21 34 | 2n 1 | 4 15 | 17 10 | 0 44 | 20 25 | 1 58 | 23 57 | 0 45 | 21 50 | 0 29 | 21 38 | 1 21 | 21 20 | 0 3 | 5 57 | 1 9 | 24 20 | 4 11 | 19 50 | 19 43 | 9 35 | 16 51 | 6 23 |
| T 13 | 21 24 | 7 15 | 4 49 | 16 50 | 1 2 | 20 36 | 1 55 | 23 55 | 0 45 | 21 50 | 0 28 | 21 39 | 1 21 | 21 20 | 0 3 | 5 56 | 1 9 | 24 20 | 4 11 | 19 50 | 19 44 | 9 38 | 16 51 | 6 22 |
| W14 | 21 14 | 12 13 | 5 9 | 16 34 | 1 20 | 20 47 | 1 53 | 23 52 | 0 46 | 21 50 | 0 28 | 21 40 | 1 21 | 21 20 | 0 3 | 5 56 | 1 9 | 24 21 | 4 11 | 19 50 | 19 45 | 9 40 | 16 51 | 6 22 |
| T 15 | 21 2 | 16 45 | 5 17 | 16 20 | 1 39 | 20 57 | 1 50 | 23 49 | 0 46 | 21 49 | 0 28 | 21 40 | 1 21 | 21 20 | 0 3 | 5 55 | 1 9 | 24 21 | 4 11 | 19 50 | 19 46 | 9 43 | 16 51 | 6 22 |
| F 16 | 20 51 | 20 40 | 5 11 | 16 9 | 1 57 | 21 7 | 1 48 | 23 46 | 0 47 | 21 49 | 0 28 | 21 40 | 1 21 | 21 19 | 0 3 | 5 54 | 1 9 | 24 22 | 4 11 | 19 50 | 19 46 | 9 46 | 16 51 | 6 22 |
| S 17 | 20 39 | 23 47 | 4 51 | 16 2 | 2 15 | 21 16 | 1 45 | 23 42 | 0 47 | 21 49 | 0 28 | 21 41 | 1 21 | 21 19 | 0 3 | 5 54 | 1 9 | 24 22 | 4 12 | 19 50 | 19 47 | 9 49 | 16 51 | 6 22 |
| S 18 | 20 27 | 25 50 | 4 17 | 15 58 | 2 32 | 21 24 | 1 42 | 23 38 | 0 48 | 21 48 | 0 27 | 21 41 | 1 21 | 21 19 | 0 3 | 5 53 | 1 9 | 24 22 | 4 12 | 19 50 | 19 48 | 9 52 | 16 51 | 6 21 |
| M19 | 20 14 | 26 37 | 3 30 | 15 57 | 2 47 | 21 32 | 1 40 | 23 34 | 0 48 | 21 48 | 0 27 | 21 42 | 1 21 | 21 19 | 0 3 | 5 53 | 1 9 | 24 23 | 4 12 | 19 50 | 19 48 | 9 55 | 16 51 | 6 21 |
| T 20 | 20 1 | 25 56 | 2 30 | 16 0 | 3 1 | 21 39 | 1 37 | 23 30 | 0 49 | 21 48 | 0 27 | 21 42 | 1 21 | 21 19 | 0 3 | 5 52 | 1 9 | 24 23 | 4 12 | 19 50 | 19 49 | 9 58 | 16 52 | 6 21 |
| W21 | 19 48 | 23 45 | 1 21 | 16 5 | 3 13 | 21 46 | 1 34 | 23 25 | 0 50 | 21 48 | 0 27 | 21 43 | 1 21 | 21 18 | 0 3 | 5 51 | 1 9 | 24 23 | 4 12 | 19 50 | 19 50 | 10 1 | 16 52 | 6 20 |
| T 22 | 19 34 | 20 8 | 0 5 | 16 12 | 3 23 | 21 52 | 1 31 | 23 20 | 0 50 | 21 48 | 0 27 | 21 43 | 1 21 | 21 18 | 0 3 | 5 50 | 1 9 | 24 24 | 4 12 | 19 50 | 19 50 | 10 4 | 16 52 | 6 20 |
| F 23 | 19 20 | 15 17 | 1s12 | 16 22 | 3 30 | 21 57 | 1 28 | 23 15 | 0 51 | 21 47 | 0 26 | 21 44 | 1 21 | 21 18 | 0 3 | 5 50 | 1 9 | 24 24 | 4 12 | 19 50 | 19 51 | 10 6 | 16 52 | 6 20 |
| S 24 | 19 5 | 9 33 | 2 26 | 16 34 | 3 35 | 22 2 | 1 25 | 23 10 | 0 51 | 21 47 | 0 26 | 21 44 | 1 21 | 21 18 | 0 3 | 5 49 | 1 9 | 24 24 | 4 12 | 19 50 | 19 52 | 10 9 | 16 52 | 6 20 |
| S 25 | 18 50 | 3 15 | 3 32 | 16 46 | 3 37 | 22 6 | 1 22 | 23 4 | 0 51 | 21 47 | 0 26 | 21 44 | 1 21 | 21 18 | 0 3 | 5 48 | 1 9 | 24 25 | 4 12 | 19 50 | 19 53 | 10 12 | 16 52 | 6 19 |
| M26 | 18 35 | 3s13 | 4 24 | 17 0 | 3 37 | 22 10 | 1 19 | 22 58 | 0 52 | 21 47 | 0 26 | 21 45 | 1 21 | 21 18 | 0 3 | 5 48 | 1 9 | 24 25 | 4 12 | 19 50 | 19 53 | 10 15 | 16 52 | 6 19 |
| T 27 | 18 20 | 9 29 | 4 59 | 17 14 | 3 34 | 22 13 | 1 16 | 22 52 | 0 52 | 21 47 | 0 26 | 21 45 | 1 21 | 21 17 | 0 3 | 5 47 | 1 9 | 24 26 | 4 12 | 19 50 | 19 54 | 10 18 | 16 52 | 6 19 |
| W28 | 18 4 | 15 13 | 5 16 | 17 28 | 3 30 | 22 15 | 1 13 | 22 46 | 0 53 | 21 47 | 0 25 | 21 46 | 1 21 | 21 17 | 0 3 | 5 46 | 1 9 | 24 26 | 4 12 | 19 50 | 19 55 | 10 21 | 16 53 | 6 18 |
| T 29 | 17 48 | 20 4 | 5 13 | 17 43 | 3 24 | 22 17 | 1 10 | 22 39 | 0 53 | 21 47 | 0 25 | 21 46 | 1 21 | 21 17 | 0 3 | 5 45 | 1 9 | 24 26 | 4 12 | 19 50 | 19 55 | 10 24 | 16 53 | 6 18 |
| F 30 | 17 31 | 23 43 | 4 51 | 17 57 | 3 17 | 22 18 | 1 7 | 22 32 | 0 54 | 21 47 | 0 25 | 21 46 | 1 21 | 21 17 | 0 3 | 5 45 | 1 9 | 24 27 | 4 12 | 19 50 | 19 56 | 10 26 | 16 53 | 6 18 |
| S 31 | 17s14 | 25s57 | 4s13 | 18s10 | 3n 8 | 22s18 | 1n 3 | 22s25 | 0s54 | 21n47 | 0s25 | 21s47 | 1n21 | 21n17 | 0s 3 | 5s44 | 1s 9 | 24n27 | 4n12 | 19s50 | 19s57 | 10n29 | 16n53 | 6s17 |

Julian Day Number = 2339416.5, Delta T = 17.05 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'18, Lahiri = 19°34'18Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## FEBRUARY 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 47 27 | 12♒57'58 | 22♐11 | 24°R12 | 6♑57 | 23♑45 | 11°R27 | 20♐29 | 5°R56 | 18♓14 | 29°R16 | 1♒37 | 1♒ 3 | 15♈ 9 | 20°R48 | S 1 |
| M 2 | 8 51 24 | 13°58'47 | 5♑32 | 24♑ 0 | 8°10 | 24°31 | 11♊27 | 20°34 | 5♊55 | 18°16 | 29♋15 | 1°38 | 1° 0 | 15°15 | 20♊46 | M 2 |
| T 3 | 8 55 20 | 14°59'34 | 18°39 | 23°D55 | 9°23 | 25°18 | 11°27 | 20°39 | 5°55 | 18°18 | 29°13 | 1°39 | 0°57 | 15°22 | 20°44 | T 3 |
| W 4 | 8 59 17 | 16° 0'20 | 1♒33 | 23°58 | 10°37 | 26° 4 | 11°D26 | 20°44 | 5°54 | 18°19 | 29°12 | 1°R39 | 0°54 | 15°29 | 20°43 | W 4 |
| T 5 | 9 3 13 | 17° 1'05 | 14°15 | 24° 8 | 11°50 | 26°50 | 11°26 | 20°49 | 5°54 | 18°21 | 29°11 | 1°39 | 0°50 | 15°36 | 20°41 | T 5 |
| F 6 | 9 7 10 | 18° 1'48 | 26°45 | 24°25 | 13° 3 | 27°37 | 11°27 | 20°54 | 5°54 | 18°24 | 29° 9 | 1°38 | 0°47 | 15°42 | 20°40 | F 6 |
| S 7 | 9 11 6 | 19° 2'30 | 9♓ 4 | 24°47 | 14°16 | 28°23 | 11°27 | 20°58 | 5°53 | 18°26 | 29° 8 | 1°35 | 0°44 | 15°49 | 20°38 | S 7 |
| S 8 | 9 15 3 | 20° 3'11 | 21°12 | 25°15 | 15°29 | 29°10 | 11°28 | 21° 3 | 5°53 | 18°28 | 29° 7 | 1°33 | 0°41 | 15°56 | 20°37 | S 8 |
| M 9 | 9 19 0 | 21° 3'50 | 3♈12 | 25°48 | 16°43 | 29°56 | 11°29 | 21° 8 | 5°53 | 18°30 | 29° 6 | 1°29 | 0°38 | 16° 2 | 20°35 | M 9 |
| T 10 | 9 22 56 | 22° 4'27 | 15° 6 | 26°26 | 17°56 | 0♒43 | 11°30 | 21°12 | 5°53 | 18°32 | 29° 4 | 1°26 | 0°35 | 16° 9 | 20°34 | T 10 |
| W11 | 9 26 53 | 23° 5'02 | 26°57 | 27° 8 | 19° 9 | 1°29 | 11°31 | 21°17 | 5°53 | 18°34 | 29° 3 | 1°23 | 0°31 | 16°16 | 20°33 | W11 |
| T 12 | 9 30 49 | 24° 5'36 | 8♉50 | 27°54 | 20°23 | 2°16 | 11°33 | 21°21 | 5°D53 | 18°36 | 29° 2 | 1°21 | 0°28 | 16°23 | 20°32 | T 12 |
| F 13 | 9 34 46 | 25° 6'08 | 20°48 | 28°44 | 21°36 | 3° 2 | 11°34 | 21°26 | 5°53 | 18°38 | 29° 1 | 1°D20 | 0°25 | 16°29 | 20°31 | F 13 |
| S 14 | 9 38 42 | 26° 6'39 | 2♊57 | 29°37 | 22°49 | 3°49 | 11°36 | 21°30 | 5°53 | 18°40 | 29° 0 | 1°20 | 0°22 | 16°36 | 20°30 | S 14 |
| S 15 | 9 42 39 | 27° 7'07 | 15°20 | 0♒33 | 24° 3 | 4°35 | 11°38 | 21°34 | 5°53 | 18°42 | 28°58 | 1°21 | 0°19 | 16°43 | 20°30 | S 15 |
| M16 | 9 46 35 | 28° 7'34 | 28° 3 | 1°32 | 25°16 | 5°22 | 11°41 | 21°38 | 5°53 | 18°44 | 28°57 | 1°23 | 0°16 | 16°49 | 20°29 | M16 |
| T 17 | 9 50 32 | 29° 7'58 | 11♋ 9 | 2°34 | 26°30 | 6° 8 | 11°43 | 21°42 | 5°54 | 18°47 | 28°56 | 1°25 | 0°12 | 16°56 | 20°28 | T 17 |
| W18 | 9 54 29 | 0♓ 8'21 | 24°40 | 3°38 | 27°43 | 6°55 | 11°46 | 21°46 | 5°54 | 18°49 | 28°55 | 1°R26 | 0° 9 | 17° 3 | 20°28 | W18 |
| T 19 | 9 58 25 | 1° 8'42 | 8♌38 | 4°44 | 28°56 | 7°42 | 11°49 | 21°50 | 5°54 | 18°51 | 28°54 | 1°26 | 0° 6 | 17°10 | 20°27 | T 19 |
| F 20 | 10 2 22 | 2° 9'01 | 23° 0 | 5°53 | 0♒10 | 8°28 | 11°52 | 21°54 | 5°55 | 18°53 | 28°53 | 1°24 | 0° 3 | 17°16 | 20°27 | F 20 |
| S 21 | 10 6 18 | 3° 9'18 | 7♍41 | 7° 3 | 1°23 | 9°15 | 11°55 | 21°58 | 5°55 | 18°55 | 28°52 | 1°21 | 29♑59 | 17°23 | 20°27 | S 21 |
| S 22 | 10 10 15 | 4° 9'33 | 22°34 | 8°16 | 2°37 | 10° 2 | 11°58 | 22° 1 | 5°56 | 18°58 | 28°51 | 1°17 | 29°56 | 17°30 | 20°27 | S 22 |
| M23 | 10 14 11 | 5° 9'47 | 7♎32 | 9°30 | 3°50 | 10°49 | 12° 2 | 22° 5 | 5°56 | 19° 0 | 28°49 | 1°12 | 29°53 | 17°36 | 20°27 | M23 |
| T 24 | 10 18 8 | 6° 9'59 | 22°25 | 10°46 | 5° 4 | 11°35 | 12° 6 | 22° 9 | 5°57 | 19° 2 | 28°48 | 1° 7 | 29°50 | 17°43 | 20°D27 | T 24 |
| W25 | 10 22 4 | 7°10'10 | 7♏ 5 | 12° 4 | 6°17 | 12°22 | 12°10 | 22°12 | 5°58 | 19° 4 | 28°47 | 1° 2 | 29°47 | 17°50 | 20°27 | W25 |
| T 26 | 10 26 1 | 8°10'19 | 21°28 | 13°23 | 7°31 | 13° 9 | 12°14 | 22°15 | 5°58 | 19° 6 | 28°46 | 1° 0 | 29°44 | 17°57 | 20°27 | T 26 |
| F 27 | 10 29 57 | 9°10'27 | 5♐29 | 14°44 | 8°45 | 13°56 | 12°18 | 22°18 | 5°59 | 19° 9 | 28°45 | 0°D58 | 29°41 | 18° 3 | 20°27 | F 27 |
| S 28 | 10 33 54 | 10♓10'33 | 19♐10 | 16♒ 6 | 9♒58 | 14♒42 | 12♊22 | 22♐22 | 6♊ 0 | 19♓11 | 28♋44 | 0♒59 | 29♑37 | 18♈10 | 20♊27 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 16s57 | 26s36 | 3s22 | 18s23 | 2n58 | 22s18 | 1n 0 | 22s17 | 0s55 | 21n47 | 0s25 | 21s47 | 1n22 | 21n17 | 0s 3 | 5s43 | 1s 9 | 24n27 | 4n12 | 19s50 | 19s57 | 10n32 | 16n53 | 6s17 |
| M 2 | 16 40 | 25 41 | 2 20 | 18 36 | 2 48 | 22 17 | 0 57 | 22 10 | 0 55 | 21 47 | 0 24 | 21 47 | 1 22 | 21 17 | 0 3 | 5 42 | 1 9 | 24 27 | 4 13 | 19 50 | 19 58 | 10 35 | 16 54 | 6 17 |
| T 3 | 16 22 | 23 21 | 1 11 | 18 47 | 2 37 | 22 15 | 0 54 | 22 2 | 0 56 | 21 48 | 0 24 | 21 48 | 1 22 | 21 17 | 0 3 | 5 42 | 1 9 | 24 28 | 4 13 | 19 50 | 19 59 | 10 38 | 16 54 | 6 16 |
| W 4 | 16 4 | 19 51 | 0 1 | 18 58 | 2 25 | 22 13 | 0 51 | 21 53 | 0 56 | 21 48 | 0 24 | 21 48 | 1 22 | 21 17 | 0 3 | 5 41 | 1 9 | 24 28 | 4 13 | 19 50 | 20 0 | 10 41 | 16 54 | 6 16 |
| T 5 | 15 46 | 15 29 | 1n 9 | 19 8 | 2 14 | 22 10 | 0 48 | 21 45 | 0 57 | 21 48 | 0 24 | 21 48 | 1 22 | 21 17 | 0 3 | 5 40 | 1 9 | 24 28 | 4 13 | 19 50 | 20 0 | 10 43 | 16 54 | 6 16 |
| F 6 | 15 27 | 10 31 | 2 14 | 19 16 | 2 2 | 22 6 | 0 44 | 21 36 | 0 57 | 21 48 | 0 24 | 21 48 | 1 22 | 21 17 | 0 3 | 5 39 | 1 9 | 24 29 | 4 13 | 19 50 | 20 1 | 10 46 | 16 55 | 6 15 |
| S 7 | 15 8 | 5 13 | 3 12 | 19 24 | 1 50 | 22 2 | 0 41 | 21 27 | 0 57 | 21 49 | 0 23 | 21 49 | 1 22 | 21 17 | 0 3 | 5 38 | 1 9 | 24 29 | 4 13 | 19 50 | 20 2 | 10 49 | 16 55 | 6 15 |
| S 8 | 14 49 | 0n11 | 4 0 | 19 31 | 1 38 | 21 57 | 0 38 | 21 18 | 0 58 | 21 49 | 0 23 | 21 49 | 1 22 | 21 17 | 0 3 | 5 38 | 1 9 | 24 29 | 4 13 | 19 51 | 20 2 | 10 52 | 16 55 | 6 15 |
| M 9 | 14 30 | 5 31 | 4 37 | 19 37 | 1 26 | 21 52 | 0 35 | 21 9 | 0 58 | 21 49 | 0 23 | 21 49 | 1 22 | 21 17 | 0 3 | 5 37 | 1 9 | 24 30 | 4 13 | 19 52 | 20 3 | 10 55 | 16 55 | 6 14 |
| T 10 | 14 11 | 10 35 | 5 2 | 19 41 | 1 14 | 21 45 | 0 31 | 20 59 | 0 59 | 21 49 | 0 23 | 21 50 | 1 22 | 21 17 | 0 3 | 5 36 | 1 9 | 24 30 | 4 13 | 19 52 | 20 4 | 10 58 | 16 56 | 6 14 |
| W11 | 13 51 | 15 16 | 5 13 | 19 44 | 1 3 | 21 39 | 0 28 | 20 50 | 0 59 | 21 50 | 0 23 | 21 50 | 1 22 | 21 17 | 0 3 | 5 35 | 1 9 | 24 30 | 4 13 | 19 53 | 20 4 | 11 0 | 16 56 | 6 13 |
| T 12 | 13 31 | 19 23 | 5 12 | 19 46 | 0 52 | 21 31 | 0 25 | 20 39 | 1 0 | 21 50 | 0 22 | 21 50 | 1 22 | 21 17 | 0 3 | 5 34 | 1 9 | 24 31 | 4 13 | 19 54 | 20 5 | 11 3 | 16 56 | 6 13 |
| F 13 | 13 11 | 22 45 | 4 57 | 19 47 | 0 40 | 21 23 | 0 22 | 20 29 | 1 0 | 21 51 | 0 22 | 21 50 | 1 22 | 21 17 | 0 3 | 5 33 | 1 9 | 24 31 | 4 13 | 19 54 | 20 6 | 11 6 | 16 57 | 6 13 |
| S 14 | 12 50 | 25 10 | 4 28 | 19 47 | 0 30 | 21 14 | 0 19 | 20 19 | 1 0 | 21 51 | 0 22 | 21 50 | 1 22 | 21 17 | 0 3 | 5 33 | 1 9 | 24 31 | 4 13 | 19 54 | 20 6 | 11 9 | 16 57 | 6 12 |
| S 15 | 12 30 | 26 25 | 3 47 | 19 46 | 0 19 | 21 5 | 0 16 | 20 8 | 1 1 | 21 52 | 0 22 | 21 51 | 1 22 | 21 17 | 0 3 | 5 32 | 1 9 | 24 31 | 4 13 | 19 54 | 20 7 | 11 12 | 16 57 | 6 12 |
| M16 | 12 9 | 26 21 | 2 53 | 19 43 | 0 9 | 20 55 | 0 12 | 19 57 | 1 1 | 21 52 | 0 22 | 21 51 | 1 22 | 21 17 | 0 3 | 5 31 | 1 9 | 24 32 | 4 13 | 19 53 | 20 8 | 11 14 | 16 58 | 6 11 |
| T 17 | 11 48 | 24 49 | 1 49 | 19 39 | 0s 1 | 20 44 | 0 9 | 19 46 | 1 2 | 21 53 | 0 21 | 21 51 | 1 22 | 21 17 | 0 3 | 5 30 | 1 9 | 24 32 | 4 13 | 19 53 | 20 8 | 11 17 | 16 58 | 6 11 |
| W18 | 11 27 | 21 50 | 0 37 | 19 33 | 0 11 | 20 33 | 0 6 | 19 34 | 1 2 | 21 53 | 0 21 | 21 51 | 1 22 | 21 17 | 0 3 | 5 29 | 1 9 | 24 32 | 4 13 | 19 53 | 20 9 | 11 20 | 16 58 | 6 11 |
| T 19 | 11 5 | 17 30 | 0s39 | 19 26 | 0 20 | 20 21 | 0 3 | 19 23 | 1 2 | 21 54 | 0 21 | 21 51 | 1 22 | 21 17 | 0 3 | 5 28 | 1 9 | 24 32 | 4 13 | 19 53 | 20 10 | 11 23 | 16 59 | 6 10 |
| F 20 | 10 44 | 12 4 | 1 55 | 19 19 | 0 29 | 20 9 | 0s 0 | 19 11 | 1 3 | 21 54 | 0 21 | 21 52 | 1 23 | 21 17 | 0 3 | 5 27 | 1 9 | 24 33 | 4 13 | 19 53 | 20 11 | 11 25 | 16 59 | 6 10 |
| S 21 | 10 22 | 5 50 | 3 5 | 19 9 | 0 38 | 19 56 | 0 3 | 18 59 | 1 3 | 21 55 | 0 21 | 21 52 | 1 23 | 21 17 | 0 3 | 5 27 | 1 9 | 24 33 | 4 13 | 19 54 | 20 11 | 11 28 | 17 0 | 6 9 |
| S 22 | 10 0 | 0s46 | 4 3 | 18 59 | 0 46 | 19 43 | 0 6 | 18 47 | 1 3 | 21 56 | 0 20 | 21 52 | 1 23 | 21 17 | 0 3 | 5 26 | 1 9 | 24 33 | 4 13 | 19 55 | 20 12 | 11 31 | 17 0 | 6 9 |
| M23 | 9 38 | 7 21 | 4 45 | 18 47 | 0 54 | 19 28 | 0 9 | 18 35 | 1 4 | 21 56 | 0 20 | 21 52 | 1 23 | 21 17 | 0 3 | 5 25 | 1 9 | 24 33 | 4 13 | 19 56 | 20 13 | 11 34 | 17 0 | 6 9 |
| T 24 | 9 16 | 13 29 | 5 8 | 18 33 | 1 2 | 19 14 | 0 12 | 18 22 | 1 4 | 21 57 | 0 20 | 21 52 | 1 23 | 21 17 | 0 3 | 5 24 | 1 9 | 24 34 | 4 13 | 19 57 | 20 13 | 11 37 | 17 1 | 6 8 |
| W25 | 8 54 | 18 46 | 5 9 | 18 19 | 1 9 | 18 58 | 0 15 | 18 9 | 1 5 | 21 58 | 0 20 | 21 52 | 1 23 | 21 18 | 0 3 | 5 23 | 1 9 | 24 34 | 4 13 | 19 58 | 20 14 | 11 39 | 17 1 | 6 8 |
| T 26 | 8 31 | 22 51 | 4 52 | 18 3 | 1 16 | 18 43 | 0 18 | 17 56 | 1 5 | 21 58 | 0 20 | 21 52 | 1 23 | 21 18 | 0 3 | 5 22 | 1 9 | 24 34 | 4 13 | 19 58 | 20 15 | 11 42 | 17 2 | 6 7 |
| F 27 | 8 9 | 25 28 | 4 17 | 17 46 | 1 23 | 18 26 | 0 21 | 17 43 | 1 5 | 21 59 | 0 20 | 21 53 | 1 23 | 21 18 | 0 3 | 5 21 | 1 9 | 24 34 | 4 13 | 19 59 | 20 15 | 11 45 | 17 2 | 6 7 |
| S 28 | 7s46 | 26s29 | 3s28 | 17s27 | 1s29 | 18s 9 | 0s23 | 17s30 | 1s 6 | 22n 0 | 0s19 | 21s53 | 1n23 | 21n18 | 0s 3 | 5s20 | 1s 9 | 24n34 | 4n13 | 19s59 | 20s16 | 11n48 | 17n 3 | 6s 6 |

Julian Day Number = 2339447.5, Delta T = 17.01 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'22, Lahiri = 19°34'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## MARCH 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 37 51 | 11♓10'37 | 2♑31 | 17♒30 | 11♒12 | 15♒29 | 12♊27 | 22♐25 | 6♊ 1 | 19♓13 | 28°R43 | 1♒ 0 | 29♑34 | 18♈17 | 20♊28 | S 1 |
| M 2 | 10 41 47 | 12°10'40 | 15°33 | 18°55 | 12°25 | 16°16 | 12°32 | 22°28 | 6° 2 | 19°16 | 28♋43 | 1° 1 | 29°31 | 18°24 | 20°28 | M 2 |
| T 3 | 10 45 44 | 13°10'42 | 28°20 | 20°21 | 13°39 | 17° 3 | 12°37 | 22°30 | 6° 3 | 19°18 | 28°42 | 1°R 2 | 29°28 | 18°30 | 20°29 | T 3 |
| W 4 | 10 49 40 | 14°10'41 | 10♒54 | 21°48 | 14°53 | 17°50 | 12°42 | 22°33 | 6° 4 | 19°20 | 28°41 | 1° 2 | 29°25 | 18°37 | 20°30 | W 4 |
| T 5 | 10 53 37 | 15°10'39 | 23°18 | 23°17 | 16° 6 | 18°36 | 12°48 | 22°36 | 6° 5 | 19°22 | 28°40 | 0°59 | 29°22 | 18°44 | 20°30 | T 5 |
| F 6 | 10 57 33 | 16°10'35 | 5♓33 | 24°47 | 17°20 | 19°23 | 12°53 | 22°38 | 6° 6 | 19°25 | 28°39 | 0°55 | 29°18 | 18°50 | 20°31 | F 6 |
| S 7 | 11 1 30 | 17°10'28 | 17°40 | 26°19 | 18°34 | 20°10 | 12°59 | 22°41 | 6° 7 | 19°27 | 28°38 | 0°48 | 29°15 | 18°57 | 20°32 | S 7 |
| S 8 | 11 5 26 | 18°10'20 | 29°40 | 27°51 | 19°47 | 20°57 | 13° 5 | 22°43 | 6° 9 | 19°29 | 28°37 | 0°39 | 29°12 | 19° 4 | 20°33 | S 8 |
| M 9 | 11 9 23 | 19°10'10 | 11♈36 | 29°25 | 21° 1 | 21°44 | 13°11 | 22°46 | 6°10 | 19°31 | 28°37 | 0°29 | 29° 9 | 19°11 | 20°34 | M 9 |
| T 10 | 11 13 20 | 20° 9'58 | 23°29 | 1♓ 0 | 22°15 | 22°31 | 13°17 | 22°48 | 6°11 | 19°34 | 28°36 | 0°20 | 29° 6 | 19°17 | 20°36 | T 10 |
| W11 | 11 17 16 | 21° 9'44 | 5♉20 | 2°36 | 23°28 | 23°18 | 13°23 | 22°50 | 6°13 | 19°36 | 28°35 | 0°11 | 29° 2 | 19°24 | 20°37 | W11 |
| T 12 | 11 21 13 | 22° 9'27 | 17°13 | 4°14 | 24°42 | 24° 5 | 13°30 | 22°52 | 6°14 | 19°38 | 28°34 | 0° 3 | 28°59 | 19°31 | 20°38 | T 12 |
| F 13 | 11 25 9 | 23° 9'09 | 29°10 | 5°53 | 25°56 | 24°51 | 13°36 | 22°54 | 6°16 | 19°41 | 28°34 | 29♑58 | 28°56 | 19°37 | 20°40 | F 13 |
| S 14 | 11 29 6 | 24° 8'48 | 11♊16 | 7°33 | 27° 9 | 25°38 | 13°43 | 22°56 | 6°17 | 19°43 | 28°33 | 29°55 | 28°53 | 19°44 | 20°41 | S 14 |
| S 15 | 11 33 2 | 25° 8'25 | 23°35 | 9°14 | 28°23 | 26°25 | 13°50 | 22°57 | 6°19 | 19°45 | 28°32 | 29°D54 | 28°50 | 19°51 | 20°43 | S 15 |
| M16 | 11 36 59 | 26° 7'59 | 6♋12 | 10°56 | 29°37 | 27°12 | 13°57 | 22°59 | 6°20 | 19°47 | 28°32 | 29°54 | 28°47 | 19°58 | 20°44 | M16 |
| T 17 | 11 40 55 | 27° 7'32 | 19°12 | 12°40 | 0♓50 | 27°59 | 14° 4 | 23° 1 | 6°22 | 19°50 | 28°31 | 29°55 | 28°43 | 20° 4 | 20°46 | T 17 |
| W18 | 11 44 52 | 28° 7'01 | 2♌38 | 14°25 | 2° 4 | 28°46 | 14°12 | 23° 2 | 6°24 | 19°52 | 28°30 | 29°R55 | 28°40 | 20°11 | 20°48 | W18 |
| T 19 | 11 48 49 | 29° 6'29 | 16°33 | 16°11 | 3°18 | 29°33 | 14°19 | 23° 3 | 6°26 | 19°54 | 28°30 | 29°54 | 28°37 | 20°18 | 20°50 | T 19 |
| F 20 | 11 52 45 | 0♈ 5'54 | 0♍57 | 17°59 | 4°31 | 0♓19 | 14°27 | 23° 5 | 6°27 | 19°56 | 28°29 | 29°51 | 28°34 | 20°24 | 20°52 | F 20 |
| S 21 | 11 56 42 | 1° 5'17 | 15°46 | 19°47 | 5°45 | 1° 6 | 14°35 | 23° 6 | 6°29 | 19°59 | 28°29 | 29°45 | 28°31 | 20°31 | 20°54 | S 21 |
| S 22 | 12 0 38 | 2° 4'38 | 0♎54 | 21°38 | 6°59 | 1°53 | 14°43 | 23° 7 | 6°31 | 20° 1 | 28°28 | 29°37 | 28°27 | 20°38 | 20°56 | S 22 |
| M23 | 12 4 35 | 3° 3'57 | 16°10 | 23°29 | 8°12 | 2°40 | 14°51 | 23° 8 | 6°33 | 20° 3 | 28°28 | 29°27 | 28°24 | 20°45 | 20°59 | M23 |
| T 24 | 12 8 31 | 4° 3'14 | 1♏25 | 25°22 | 9°26 | 3°27 | 14°59 | 23° 9 | 6°35 | 20° 5 | 28°27 | 29°18 | 28°21 | 20°51 | 21° 1 | T 24 |
| W25 | 12 12 28 | 5° 2'29 | 16°26 | 27°16 | 10°40 | 4°14 | 15° 7 | 23° 9 | 6°37 | 20° 8 | 28°27 | 29° 9 | 28°18 | 20°58 | 21° 3 | W25 |
| T 26 | 12 16 24 | 6° 1'42 | 1♐ 6 | 29°12 | 11°53 | 5° 0 | 15°16 | 23°10 | 6°39 | 20°10 | 28°26 | 29° 3 | 28°15 | 21° 5 | 21° 6 | T 26 |
| F 27 | 12 20 21 | 7° 0'53 | 15°20 | 1♑ 8 | 13° 7 | 5°47 | 15°25 | 23°11 | 6°41 | 20°12 | 28°26 | 28°58 | 28°12 | 21°12 | 21° 8 | F 27 |
| S 28 | 12 24 18 | 8° 0'03 | 29° 7 | 3° 7 | 14°21 | 6°34 | 15°33 | 23°11 | 6°44 | 20°14 | 28°26 | 28°57 | 28° 8 | 21°18 | 21°11 | S 28 |
| S 29 | 12 28 14 | 8°59'11 | 12♑27 | 5° 6 | 15°35 | 7°21 | 15°42 | 23°11 | 6°46 | 20°16 | 28°25 | 28°D56 | 28° 5 | 21°25 | 21°14 | S 29 |
| M30 | 12 32 11 | 9°58'17 | 25°24 | 7° 6 | 16°48 | 8° 8 | 15°51 | 23°12 | 6°48 | 20°18 | 28°25 | 28°R57 | 28° 2 | 21°32 | 21°16 | M30 |
| T 31 | 12 36 7 | 10♈57'22 | 8♒ 2 | 9♈ 8 | 18♓ 2 | 8♓54 | 16♊ 0 | 23♐12 | 6♊50 | 20♓21 | 28♋25 | 28♑56 | 27♑59 | 21♈38 | 21♊19 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 7s23 | 25s56 | 2s29 | 17s 8 | 1s35 | 17s52 | 0s26 | 17s16 | 1s 6 | 22n 1 | 0s19 | 21s53 | 1n23 | 21n18 | 0s 3 | 5s20 | 1s 9 | 24n35 | 4n13 | 19s58 | 20s17 | 11n50 | 17n 3 | 6s | 6 |
| M 2 | 7 0 | 23 57 | 1 23 | 16 46 | 1 41 | 17 34 | 0 29 | 17 2 | 1 6 | 22 1 | 0 19 | 21 53 | 1 23 | 21 18 | 0 3 | 5 19 | 1 9 | 24 35 | 4 13 | 19 58 | 20 17 | 11 53 | 17 4 | 6 | 6 |
| T 3 | 6 37 | 20 46 | 0 15 | 16 24 | 1 46 | 17 16 | 0 32 | 16 49 | 1 6 | 22 2 | 0 19 | 21 53 | 1 23 | 21 19 | 0 3 | 5 18 | 1 9 | 24 35 | 4 13 | 19 58 | 20 18 | 11 56 | 17 4 | 6 | 5 |
| W 4 | 6 14 | 16 40 | 0n53 | 16 0 | 1 50 | 16 57 | 0 34 | 16 34 | 1 7 | 22 3 | 0 19 | 21 53 | 1 23 | 21 19 | 0 3 | 5 17 | 1 9 | 24 35 | 4 13 | 19 58 | 20 19 | 11 59 | 17 4 | 6 | 5 |
| T 5 | 5 51 | 11 56 | 1 57 | 15 35 | 1 55 | 16 37 | 0 37 | 16 20 | 1 7 | 22 4 | 0 18 | 21 53 | 1 23 | 21 19 | 0 3 | 5 16 | 1 9 | 24 35 | 4 13 | 19 58 | 20 19 | 12 1 | 17 5 | 6 | 4 |
| F 6 | 5 28 | 6 47 | 2 55 | 15 9 | 1 59 | 16 18 | 0 39 | 16 6 | 1 7 | 22 5 | 0 18 | 21 53 | 1 23 | 21 19 | 0 3 | 5 15 | 1 9 | 24 35 | 4 13 | 19 59 | 20 20 | 12 4 | 17 5 | 6 | 4 |
| S 7 | 5 4 | 1 26 | 3 45 | 14 41 | 2 2 | 15 57 | 0 42 | 15 51 | 1 8 | 22 6 | 0 18 | 21 53 | 1 24 | 21 19 | 0 3 | 5 14 | 1 9 | 24 36 | 4 13 | 20 1 | 20 21 | 12 7 | 17 6 | 6 | 4 |
| S 8 | 4 41 | 3n54 | 4 23 | 14 12 | 2 5 | 15 37 | 0 44 | 15 37 | 1 8 | 22 7 | 0 18 | 21 53 | 1 24 | 21 20 | 0 3 | 5 13 | 1 9 | 24 36 | 4 13 | 20 3 | 20 21 | 12 9 | 17 6 | 6 | 3 |
| M 9 | 4 18 | 9 2 | 4 50 | 13 42 | 2 8 | 15 15 | 0 47 | 15 22 | 1 8 | 22 8 | 0 18 | 21 53 | 1 24 | 21 20 | 0 3 | 5 12 | 1 9 | 24 36 | 4 13 | 20 5 | 20 22 | 12 12 | 17 7 | 6 | 3 |
| T 10 | 3 54 | 13 50 | 5 4 | 13 10 | 2 10 | 14 54 | 0 49 | 15 7 | 1 8 | 22 8 | 0 18 | 21 53 | 1 24 | 21 20 | 0 3 | 5 12 | 1 9 | 24 36 | 4 13 | 20 7 | 20 23 | 12 15 | 17 7 | 6 | 2 |
| W11 | 3 31 | 18 6 | 5 5 | 12 37 | 2 12 | 14 32 | 0 52 | 14 51 | 1 9 | 22 9 | 0 17 | 21 53 | 1 24 | 21 20 | 0 3 | 5 11 | 1 9 | 24 36 | 4 13 | 20 9 | 20 23 | 12 18 | 17 8 | 6 | 2 |
| T 12 | 3 7 | 21 40 | 4 53 | 12 3 | 2 14 | 14 9 | 0 54 | 14 36 | 1 9 | 22 10 | 0 17 | 21 53 | 1 24 | 21 21 | 0 3 | 5 10 | 1 9 | 24 36 | 4 13 | 20 10 | 20 24 | 12 20 | 17 8 | 6 | 1 |
| F 13 | 2 43 | 24 21 | 4 28 | 11 27 | 2 15 | 13 47 | 0 56 | 14 21 | 1 9 | 22 11 | 0 17 | 21 53 | 1 24 | 21 21 | 0 3 | 5 9 | 1 9 | 24 36 | 4 13 | 20 12 | 20 24 | 12 23 | 17 9 | 6 | 1 |
| S 14 | 2 20 | 25 58 | 3 50 | 10 51 | 2 15 | 13 23 | 0 58 | 14 5 | 1 9 | 22 12 | 0 17 | 21 54 | 1 24 | 21 21 | 0 3 | 5 8 | 1 9 | 24 37 | 4 13 | 20 12 | 20 25 | 12 26 | 17 9 | 6 | 1 |
| S 15 | 1 56 | 26 21 | 3 2 | 10 13 | 2 15 | 13 0 | 1 0 | 13 49 | 1 10 | 22 13 | 0 17 | 21 54 | 1 24 | 21 21 | 0 3 | 5 7 | 1 9 | 24 37 | 4 13 | 20 12 | 20 26 | 12 28 | 17 10 | 6 | 0 |
| M16 | 1 32 | 25 24 | 2 4 | 9 34 | 2 15 | 12 36 | 1 2 | 13 33 | 1 10 | 22 14 | 0 17 | 21 54 | 1 24 | 21 22 | 0 3 | 5 6 | 1 9 | 24 37 | 4 13 | 20 12 | 20 26 | 12 31 | 17 11 | 6 | 0 |
| T 17 | 1 9 | 23 3 | 0 57 | 8 53 | 2 14 | 12 12 | 1 4 | 13 17 | 1 10 | 22 15 | 0 16 | 21 54 | 1 24 | 21 22 | 0 3 | 5 5 | 1 9 | 24 37 | 4 13 | 20 12 | 20 27 | 12 34 | 17 11 | 5 | 59 |
| W18 | 0 45 | 19 22 | 0s14 | 8 11 | 2 13 | 11 47 | 1 6 | 13 1 | 1 10 | 22 16 | 0 16 | 21 54 | 1 24 | 21 22 | 0 3 | 5 4 | 1 9 | 24 37 | 4 13 | 20 12 | 20 28 | 12 37 | 17 12 | 5 | 59 |
| T 19 | 0 21 | 14 31 | 1 28 | 7 29 | 2 11 | 11 22 | 1 8 | 12 45 | 1 10 | 22 17 | 0 16 | 21 54 | 1 24 | 21 23 | 0 3 | 5 4 | 1 9 | 24 37 | 4 13 | 20 12 | 20 28 | 12 39 | 17 12 | 5 | 58 |
| F 20 | 0n 2 | 8 42 | 2 38 | 6 44 | 2 9 | 10 57 | 1 10 | 12 29 | 1 11 | 22 18 | 0 16 | 21 54 | 1 25 | 21 23 | 0 3 | 5 3 | 1 9 | 24 37 | 4 13 | 20 13 | 20 29 | 12 42 | 17 13 | 5 | 58 |
| S 21 | 0 26 | 2 16 | 3 39 | 5 59 | 2 6 | 10 31 | 1 11 | 12 12 | 1 11 | 22 20 | 0 16 | 21 54 | 1 25 | 21 23 | 0 3 | 5 2 | 1 9 | 24 37 | 4 13 | 20 14 | 20 30 | 12 45 | 17 13 | 5 | 58 |
| S 22 | 0 50 | 4s26 | 4 26 | 5 13 | 2 3 | 10 6 | 1 13 | 11 56 | 1 11 | 22 21 | 0 16 | 21 53 | 1 25 | 21 24 | 0 3 | 5 1 | 1 9 | 24 37 | 4 13 | 20 16 | 20 30 | 12 47 | 17 14 | 5 | 57 |
| M23 | 1 13 | 10 54 | 4 55 | 4 25 | 1 59 | 9 40 | 1 15 | 11 39 | 1 11 | 22 22 | 0 16 | 21 53 | 1 25 | 21 24 | 0 3 | 5 0 | 1 9 | 24 37 | 4 13 | 20 18 | 20 31 | 12 50 | 17 14 | 5 | 57 |
| T 24 | 1 37 | 16 43 | 5 3 | 3 36 | 1 55 | 9 13 | 1 16 | 11 22 | 1 11 | 22 23 | 0 15 | 21 53 | 1 25 | 21 24 | 0 2 | 4 59 | 1 9 | 24 37 | 4 13 | 20 20 | 20 32 | 12 53 | 17 15 | 5 | 56 |
| W25 | 2 0 | 21 24 | 4 50 | 2 46 | 1 50 | 8 47 | 1 18 | 11 5 | 1 12 | 22 24 | 0 15 | 21 53 | 1 25 | 21 25 | 0 2 | 4 58 | 1 9 | 24 38 | 4 12 | 20 22 | 20 32 | 12 55 | 17 15 | 5 | 56 |
| T 26 | 2 24 | 24 37 | 4 17 | 1 56 | 1 45 | 8 20 | 1 19 | 10 48 | 1 12 | 22 25 | 0 15 | 21 53 | 1 25 | 21 25 | 0 2 | 4 58 | 1 9 | 24 38 | 4 12 | 20 23 | 20 33 | 12 58 | 17 16 | 5 | 56 |
| F 27 | 2 47 | 26 9 | 3 30 | 1 4 | 1 39 | 7 53 | 1 20 | 10 31 | 1 12 | 22 26 | 0 15 | 21 53 | 1 25 | 21 25 | 0 2 | 4 57 | 1 9 | 24 38 | 4 12 | 20 24 | 20 34 | 13 1 | 17 16 | 5 | 55 |
| S 28 | 3 11 | 26 0 | 2 31 | 0 11 | 1 33 | 7 25 | 1 22 | 10 14 | 1 12 | 22 27 | 0 15 | 21 53 | 1 25 | 21 26 | 0 2 | 4 56 | 1 9 | 24 38 | 4 12 | 20 24 | 20 34 | 13 3 | 17 17 | 5 | 55 |
| S 29 | 3 34 | 24 20 | 1 26 | 0n43 | 1 26 | 6 58 | 1 23 | 9 57 | 1 12 | 22 28 | 0 15 | 21 53 | 1 25 | 21 26 | 0 2 | 4 55 | 1 9 | 24 38 | 4 12 | 20 24 | 20 35 | 13 6 | 17 18 | 5 | 55 |
| M30 | 3 57 | 21 24 | 0 19 | 1 37 | 1 19 | 6 30 | 1 24 | 9 39 | 1 12 | 22 29 | 0 14 | 21 53 | 1 25 | 21 27 | 0 2 | 4 54 | 1 9 | 24 38 | 4 12 | 20 24 | 20 35 | 13 9 | 17 18 | 5 | 54 |
| T 31 | 4n21 | 17s31 | 0n48 | 2n33 | 1s11 | 6s 2 | 1s25 | 9s22 | 1s12 | 22n30 | 0s14 | 21s53 | 1n25 | 21n27 | 0s 2 | 4s53 | 1s 9 | 24n38 | 4n12 | 20s24 | 20s36 | 13n11 | 17n19 | 5s | 54 |

Julian Day Number = 2339475.5, Delta T = 16.98 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'26, Lahiri = 19°34'26Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## APRIL 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 40 4 | 11♈56'24 | 20♒25 | 11♈11 | 19♓16 | 9♓41 | 16♊ 9 | 23°R12 | 6♊53 | 20♓23 | 28°R25 | 28°R54 | 27♑56 | 21♈45 | 21♊22 | W 1 |
| T 2 | 12 44 0 | 12°55'25 | 2♓36 | 13°14 | 20°29 | 10°28 | 16°19 | 23♐12 | 6°55 | 20°25 | 28♋24 | 28♑50 | 27°53 | 21°52 | 21°25 | T 2 |
| F 3 | 12 47 57 | 13°54'23 | 14°39 | 15°19 | 21°43 | 11°15 | 16°28 | 23°12 | 6°57 | 20°27 | 28°24 | 28°43 | 27°49 | 21°59 | 21°28 | F 3 |
| S 4 | 12 51 53 | 14°53'20 | 26°37 | 17°24 | 22°57 | 12° 1 | 16°38 | 23°11 | 7° 0 | 20°29 | 28°24 | 28°32 | 27°46 | 22° 5 | 21°31 | S 4 |
| S 5 | 12 55 50 | 15°52'15 | 8♈32 | 19°30 | 24°11 | 12°48 | 16°47 | 23°11 | 7° 2 | 20°31 | 28°24 | 28°20 | 27°43 | 22°12 | 21°34 | S 5 |
| M 6 | 12 59 47 | 16°51'08 | 20°24 | 21°35 | 25°24 | 13°35 | 16°57 | 23°11 | 7° 5 | 20°33 | 28°24 | 28° 6 | 27°40 | 22°19 | 21°38 | M 6 |
| T 7 | 13 3 43 | 17°49'59 | 2♉16 | 23°41 | 26°38 | 14°22 | 17° 7 | 23°10 | 7° 7 | 20°35 | 28°24 | 27°52 | 27°37 | 22°25 | 21°41 | T 7 |
| W 8 | 13 7 40 | 18°48'48 | 14° 9 | 25°47 | 27°52 | 15° 8 | 17°17 | 23° 9 | 7°10 | 20°38 | 28°24 | 27°38 | 27°33 | 22°32 | 21°44 | W 8 |
| T 9 | 13 11 36 | 19°47'34 | 26° 4 | 27°51 | 29° 5 | 15°55 | 17°27 | 23° 9 | 7°13 | 20°40 | 28°24 | 27°27 | 27°30 | 22°39 | 21°48 | T 9 |
| F 10 | 13 15 33 | 20°46'19 | 8♊ 4 | 29°55 | 0♈19 | 16°42 | 17°37 | 23° 8 | 7°15 | 20°42 | 28°D24 | 27°18 | 27°27 | 22°46 | 21°51 | F 10 |
| S 11 | 13 19 29 | 21°45'02 | 20°12 | 1♉58 | 1°33 | 17°28 | 17°48 | 23° 7 | 7°18 | 20°44 | 28°24 | 27°12 | 27°24 | 22°52 | 21°55 | S 11 |
| S 12 | 13 23 26 | 22°43'42 | 2♋31 | 3°59 | 2°46 | 18°15 | 17°58 | 23° 6 | 7°21 | 20°46 | 28°24 | 27° 9 | 27°21 | 22°59 | 21°59 | S 12 |
| M13 | 13 27 22 | 23°42'20 | 15° 6 | 5°59 | 4° 0 | 19° 1 | 18° 8 | 23° 5 | 7°23 | 20°48 | 28°24 | 27° 8 | 27°18 | 23° 6 | 22° 2 | M13 |
| T 14 | 13 31 19 | 24°40'56 | 28° 0 | 7°56 | 5°14 | 19°48 | 18°19 | 23° 3 | 7°26 | 20°50 | 28°24 | 27° 8 | 27°14 | 23°13 | 22° 6 | T 14 |
| W15 | 13 35 16 | 25°39'30 | 11♌19 | 9°51 | 6°27 | 20°34 | 18°30 | 23° 2 | 7°29 | 20°52 | 28°24 | 27° 8 | 27°11 | 23°19 | 22°10 | W15 |
| T 16 | 13 39 12 | 26°38'01 | 25° 5 | 11°42 | 7°41 | 21°21 | 18°41 | 23° 1 | 7°32 | 20°54 | 28°24 | 27° 6 | 27° 8 | 23°26 | 22°14 | T 16 |
| F 17 | 13 43 9 | 27°36'30 | 9♍20 | 13°31 | 8°55 | 22° 7 | 18°51 | 22°59 | 7°35 | 20°55 | 28°24 | 27° 2 | 27° 5 | 23°33 | 22°18 | F 17 |
| S 18 | 13 47 5 | 28°34'57 | 24° 3 | 15°16 | 10° 8 | 22°54 | 19° 2 | 22°58 | 7°38 | 20°57 | 28°24 | 26°55 | 27° 2 | 23°39 | 22°22 | S 18 |
| S 19 | 13 51 2 | 29°33'22 | 9♎ 7 | 16°58 | 11°22 | 23°40 | 19°13 | 22°56 | 7°41 | 20°59 | 28°25 | 26°46 | 26°59 | 23°46 | 22°26 | S 19 |
| M20 | 13 54 58 | 0♉31'45 | 24°25 | 18°36 | 12°36 | 24°26 | 19°24 | 22°54 | 7°44 | 21° 1 | 28°25 | 26°36 | 26°55 | 23°53 | 22°30 | M20 |
| T 21 | 13 58 55 | 1°30'06 | 9♏46 | 20°10 | 13°49 | 25°13 | 19°36 | 22°52 | 7°47 | 21° 3 | 28°25 | 26°25 | 26°52 | 24° 0 | 22°34 | T 21 |
| W22 | 14 2 51 | 2°28'25 | 24°57 | 21°39 | 15° 3 | 25°59 | 19°47 | 22°50 | 7°50 | 21° 5 | 28°25 | 26°15 | 26°49 | 24° 6 | 22°39 | W22 |
| T 23 | 14 6 48 | 3°26'43 | 9♐49 | 23° 5 | 16°17 | 26°45 | 19°58 | 22°48 | 7°53 | 21° 7 | 28°26 | 26° 7 | 26°46 | 24°13 | 22°43 | T 23 |
| F 24 | 14 10 44 | 4°24'59 | 24°14 | 24°26 | 17°30 | 27°32 | 20°10 | 22°46 | 7°56 | 21° 8 | 28°26 | 26° 1 | 26°43 | 24°20 | 22°47 | F 24 |
| S 25 | 14 14 41 | 5°23'14 | 8♑11 | 25°43 | 18°44 | 28°18 | 20°21 | 22°44 | 7°59 | 21°10 | 28°26 | 25°58 | 26°39 | 24°27 | 22°52 | S 25 |
| S 26 | 14 18 38 | 6°21'27 | 21°38 | 26°55 | 19°57 | 29° 4 | 20°33 | 22°42 | 8° 2 | 21°12 | 28°27 | 25°D57 | 26°36 | 24°33 | 22°56 | S 26 |
| M27 | 14 22 34 | 7°19'38 | 4♒38 | 28° 3 | 21°11 | 29°50 | 20°44 | 22°39 | 8° 5 | 21°14 | 28°27 | 25°R57 | 26°33 | 24°40 | 23° 1 | M27 |
| T 28 | 14 26 31 | 8°17'48 | 17°16 | 29° 6 | 22°25 | 0♈37 | 20°56 | 22°37 | 8° 8 | 21°15 | 28°28 | 25°57 | 26°30 | 24°47 | 23° 5 | T 28 |
| W29 | 14 30 27 | 9°15'57 | 29°36 | 0♊ 4 | 23°38 | 1°23 | 21° 8 | 22°34 | 8°11 | 21°17 | 28°28 | 25°56 | 26°27 | 24°53 | 23°10 | W29 |
| T 30 | 14 34 24 | 10♉14'04 | 11♓44 | 0♊57 | 24♈52 | 2♈ 9 | 21♊20 | 22♐32 | 8♊15 | 21♓19 | 28♋29 | 25♑52 | 26♑24 | 25♈ 0 | 23♊14 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 4n44 | 12s57 | 1n51 | 3n28 | 1s 2 | 5s34 | 1s26 | 9s 4 | 1s12 | 22n31 | 0s14 | 21s53 | 1n25 | 21n27 | 0s 2 | 4s53 | 1s 9 | 24n38 | 4n12 | 20s25 | 20s37 | 13n14 | 17n19 | 5s53 |
| T 2 | 5 7 | 7 57 | 2 48 | 4 25 | 0 54 | 5 6 | 1 27 | 8 46 | 1 13 | 22 33 | 0 14 | 21 53 | 1 25 | 21 28 | 0 2 | 4 52 | 1 9 | 24 38 | 4 12 | 20 26 | 20 37 | 13 16 | 17 20 | 5 53 |
| F 3 | 5 30 | 2 43 | 3 37 | 5 22 | 0 44 | 4 38 | 1 28 | 8 29 | 1 13 | 22 34 | 0 14 | 21 53 | 1 26 | 21 28 | 0 2 | 4 51 | 1 9 | 24 38 | 4 12 | 20 27 | 20 38 | 13 19 | 17 20 | 5 53 |
| S 4 | 5 53 | 2n33 | 4 15 | 6 19 | 0 35 | 4 9 | 1 28 | 8 11 | 1 13 | 22 35 | 0 14 | 21 53 | 1 26 | 21 29 | 0 2 | 4 50 | 1 9 | 24 38 | 4 12 | 20 29 | 20 39 | 13 22 | 17 21 | 5 52 |
| S 5 | 6 15 | 7 43 | 4 42 | 7 16 | 0 25 | 3 41 | 1 29 | 7 53 | 1 13 | 22 36 | 0 14 | 21 53 | 1 26 | 21 29 | 0 2 | 4 49 | 1 9 | 24 38 | 4 12 | 20 32 | 20 39 | 13 24 | 17 21 | 5 52 |
| M 6 | 6 38 | 12 34 | 4 57 | 8 13 | 0 14 | 3 12 | 1 30 | 7 35 | 1 13 | 22 37 | 0 13 | 21 53 | 1 26 | 21 29 | 0 2 | 4 48 | 1 9 | 24 38 | 4 12 | 20 35 | 20 40 | 13 27 | 17 22 | 5 52 |
| T 7 | 7 1 | 16 57 | 4 59 | 9 9 | 0 4 | 2 43 | 1 30 | 7 17 | 1 13 | 22 38 | 0 13 | 21 52 | 1 26 | 21 30 | 0 2 | 4 48 | 1 9 | 24 38 | 4 12 | 20 38 | 20 40 | 13 30 | 17 23 | 5 51 |
| W 8 | 7 23 | 20 41 | 4 48 | 10 5 | 0n 7 | 2 14 | 1 31 | 6 59 | 1 13 | 22 39 | 0 13 | 21 52 | 1 26 | 21 30 | 0 2 | 4 47 | 1 9 | 24 38 | 4 12 | 20 40 | 20 41 | 13 32 | 17 23 | 5 51 |
| T 9 | 7 45 | 23 34 | 4 24 | 11 1 | 0 18 | 1 46 | 1 31 | 6 41 | 1 13 | 22 40 | 0 13 | 21 52 | 1 26 | 21 31 | 0 2 | 4 46 | 1 9 | 24 38 | 4 12 | 20 42 | 20 42 | 13 35 | 17 24 | 5 51 |
| F 10 | 8 7 | 25 27 | 3 48 | 11 55 | 0 29 | 1 16 | 1 32 | 6 23 | 1 13 | 22 41 | 0 13 | 21 52 | 1 26 | 21 31 | 0 2 | 4 45 | 1 9 | 24 38 | 4 12 | 20 44 | 20 42 | 13 37 | 17 24 | 5 50 |
| S 11 | 8 29 | 26 8 | 3 2 | 12 49 | 0 40 | 0 47 | 1 32 | 6 5 | 1 13 | 22 42 | 0 13 | 21 52 | 1 26 | 21 32 | 0 2 | 4 45 | 1 9 | 24 38 | 4 12 | 20 45 | 20 43 | 13 40 | 17 25 | 5 50 |
| S 12 | 8 51 | 25 33 | 2 6 | 13 41 | 0 51 | 0 18 | 1 32 | 5 47 | 1 13 | 22 44 | 0 13 | 21 52 | 1 26 | 21 32 | 0 2 | 4 44 | 1 9 | 24 38 | 4 12 | 20 46 | 20 44 | 13 43 | 17 25 | 5 50 |
| M13 | 9 13 | 23 40 | 1 3 | 14 31 | 1 2 | 0n11 | 1 32 | 5 28 | 1 13 | 22 45 | 0 12 | 21 52 | 1 26 | 21 33 | 0 2 | 4 43 | 1 9 | 24 37 | 4 12 | 20 46 | 20 44 | 13 45 | 17 26 | 5 49 |
| T 14 | 9 35 | 20 31 | 0s 5 | 15 20 | 1 13 | 0 40 | 1 32 | 5 10 | 1 13 | 22 46 | 0 12 | 21 52 | 1 26 | 21 33 | 0 2 | 4 42 | 1 9 | 24 37 | 4 12 | 20 46 | 20 45 | 13 48 | 17 26 | 5 49 |
| W15 | 9 56 | 16 13 | 1 14 | 16 6 | 1 23 | 1 9 | 1 32 | 4 52 | 1 13 | 22 47 | 0 12 | 21 52 | 1 26 | 21 34 | 0 2 | 4 41 | 1 9 | 24 37 | 4 12 | 20 46 | 20 45 | 13 50 | 17 27 | 5 49 |
| T 16 | 10 17 | 10 57 | 2 22 | 16 51 | 1 33 | 1 38 | 1 32 | 4 33 | 1 13 | 22 48 | 0 12 | 21 51 | 1 26 | 21 34 | 0 2 | 4 41 | 1 9 | 24 37 | 4 12 | 20 47 | 20 46 | 13 53 | 17 27 | 5 48 |
| F 17 | 10 38 | 4 57 | 3 23 | 17 33 | 1 43 | 2 8 | 1 32 | 4 15 | 1 13 | 22 49 | 0 12 | 21 51 | 1 26 | 21 35 | 0 2 | 4 40 | 1 9 | 24 37 | 4 12 | 20 47 | 20 47 | 13 55 | 17 28 | 5 48 |
| S 18 | 10 59 | 1s30 | 4 13 | 18 13 | 1 52 | 2 37 | 1 32 | 3 57 | 1 13 | 22 50 | 0 12 | 21 51 | 1 27 | 21 35 | 0 2 | 4 39 | 1 9 | 24 37 | 4 12 | 20 49 | 20 47 | 13 58 | 17 28 | 5 48 |
| S 19 | 11 20 | 8 0 | 4 46 | 18 51 | 2 0 | 3 6 | 1 32 | 3 38 | 1 13 | 22 51 | 0 12 | 21 51 | 1 27 | 21 35 | 0 2 | 4 39 | 1 10 | 24 37 | 4 12 | 20 50 | 20 48 | 14 1 | 17 29 | 5 47 |
| M20 | 11 41 | 14 7 | 5 0 | 19 26 | 2 8 | 3 35 | 1 31 | 3 20 | 1 13 | 22 52 | 0 12 | 21 51 | 1 27 | 21 36 | 0 2 | 4 38 | 1 10 | 24 37 | 4 11 | 20 52 | 20 49 | 14 3 | 17 29 | 5 47 |
| T 21 | 12 1 | 19 23 | 4 52 | 19 59 | 2 15 | 4 4 | 1 31 | 3 1 | 1 13 | 22 53 | 0 11 | 21 51 | 1 27 | 21 36 | 0 2 | 4 37 | 1 10 | 24 37 | 4 11 | 20 54 | 20 49 | 14 6 | 17 30 | 5 47 |
| W22 | 12 21 | 23 18 | 4 24 | 20 29 | 2 21 | 4 33 | 1 31 | 2 43 | 1 13 | 22 54 | 0 11 | 21 51 | 1 27 | 21 37 | 0 2 | 4 36 | 1 10 | 24 37 | 4 11 | 20 56 | 20 50 | 14 8 | 17 31 | 5 47 |
| T 23 | 12 41 | 25 33 | 3 38 | 20 56 | 2 27 | 5 2 | 1 30 | 2 24 | 1 13 | 22 55 | 0 11 | 21 50 | 1 27 | 21 37 | 0 2 | 4 36 | 1 10 | 24 37 | 4 11 | 20 58 | 20 50 | 14 11 | 17 31 | 5 46 |
| F 24 | 13 1 | 26 0 | 2 39 | 21 21 | 2 31 | 5 30 | 1 29 | 2 6 | 1 13 | 22 56 | 0 11 | 21 50 | 1 27 | 21 38 | 0 2 | 4 35 | 1 10 | 24 37 | 4 11 | 20 59 | 20 51 | 14 13 | 17 32 | 5 46 |
| S 25 | 13 20 | 24 46 | 1 33 | 21 44 | 2 35 | 5 59 | 1 29 | 1 47 | 1 13 | 22 57 | 0 11 | 21 50 | 1 27 | 21 38 | 0 2 | 4 34 | 1 10 | 24 36 | 4 11 | 20 59 | 20 52 | 14 16 | 17 32 | 5 46 |
| S 26 | 13 40 | 22 7 | 0 23 | 22 3 | 2 38 | 6 27 | 1 28 | 1 29 | 1 12 | 22 58 | 0 11 | 21 50 | 1 27 | 21 39 | 0 2 | 4 34 | 1 10 | 24 36 | 4 11 | 21 0 | 20 52 | 14 18 | 17 32 | 5 45 |
| M27 | 13 59 | 18 24 | 0n46 | 22 21 | 2 39 | 6 56 | 1 27 | 1 10 | 1 12 | 22 59 | 0 11 | 21 50 | 1 27 | 21 40 | 0 2 | 4 33 | 1 10 | 24 36 | 4 11 | 21 0 | 20 53 | 14 21 | 17 33 | 5 45 |
| T 28 | 14 18 | 13 56 | 1 50 | 22 36 | 2 40 | 7 24 | 1 26 | 0 52 | 1 12 | 23 0 | 0 11 | 21 50 | 1 27 | 21 40 | 0 2 | 4 33 | 1 10 | 24 36 | 4 11 | 21 0 | 20 53 | 14 23 | 17 33 | 5 45 |
| W29 | 14 36 | 9 0 | 2 48 | 22 48 | 2 40 | 7 52 | 1 26 | 0 33 | 1 12 | 23 1 | 0 10 | 21 49 | 1 27 | 21 41 | 0 2 | 4 32 | 1 10 | 24 36 | 4 11 | 21 0 | 20 54 | 14 26 | 17 34 | 5 45 |
| T 30 | 14n55 | 3s50 | 3n37 | 22n58 | 2n39 | 8n20 | 1s25 | 0s15 | 1s12 | 23n 1 | 0s10 | 21s49 | 1n27 | 21n41 | 0s 2 | 4s31 | 1s10 | 24n36 | 4n11 | 21s 1 | 20s55 | 14n28 | 17n34 | 5s44 |

Julian Day Number = 2339506.5, Delta T = 16.94 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'30, Lahiri = 19°34'30Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## MAY 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 38 20 | 11♉12'09 | 23♓42 | 1♊46 | 26♈ 6 | 2♈55 | 21♊32 | 22°R29 | 8♊18 | 21♓20 | 28♋29 | 25°R45 | 26♑20 | 25♈ 7 | 23♊19 | F 1 |
| S 2 | 14 42 17 | 12°10'14 | 5♈35 | 2°29 | 27°19 | 3°41 | 21°44 | 22♐26 | 8°21 | 21°22 | 28°30 | 25♑36 | 26°17 | 25°14 | 23°24 | S 2 |
| S 3 | 14 46 13 | 13° 8'16 | 17°27 | 3° 8 | 28°33 | 4°27 | 21°56 | 22°23 | 8°24 | 21°23 | 28°30 | 25°25 | 26°14 | 25°20 | 23°29 | S 3 |
| M 4 | 14 50 10 | 14° 6'17 | 29°18 | 3°41 | 29°46 | 5°13 | 22° 8 | 22°21 | 8°28 | 21°25 | 28°31 | 25°12 | 26°11 | 25°27 | 23°34 | M 4 |
| T 5 | 14 54 7 | 15° 4'17 | 11♉12 | 4° 9 | 1♉ 0 | 5°59 | 22°20 | 22°18 | 8°31 | 21°27 | 28°32 | 24°59 | 26° 8 | 25°34 | 23°38 | T 5 |
| W 6 | 14 58 3 | 16° 2'15 | 23° 9 | 4°33 | 2°14 | 6°45 | 22°32 | 22°14 | 8°34 | 21°28 | 28°32 | 24°47 | 26° 4 | 25°40 | 23°43 | W 6 |
| T 7 | 15 2 0 | 17° 0'12 | 5♊11 | 4°51 | 3°27 | 7°30 | 22°45 | 22°11 | 8°38 | 21°30 | 28°33 | 24°36 | 26° 1 | 25°47 | 23°48 | T 7 |
| F 8 | 15 5 56 | 17°58'07 | 17°19 | 5° 4 | 4°41 | 8°16 | 22°57 | 22° 8 | 8°41 | 21°31 | 28°34 | 24°28 | 25°58 | 25°54 | 23°53 | F 8 |
| S 9 | 15 9 53 | 18°56'00 | 29°35 | 5°12 | 5°54 | 9° 2 | 23°10 | 22° 5 | 8°44 | 21°32 | 28°34 | 24°23 | 25°55 | 26° 1 | 23°58 | S 9 |
| S 10 | 15 13 49 | 19°53'52 | 12♋ 2 | 5°R15 | 7° 8 | 9°48 | 23°22 | 22° 2 | 8°48 | 21°34 | 28°35 | 24°20 | 25°52 | 26° 7 | 24° 4 | S 10 |
| M11 | 15 17 46 | 20°51'42 | 24°42 | 5°13 | 8°22 | 10°33 | 23°35 | 21°58 | 8°51 | 21°35 | 28°36 | 24°D19 | 25°49 | 26°14 | 24° 9 | M11 |
| T 12 | 15 21 43 | 21°49'30 | 7♌39 | 5° 7 | 9°35 | 11°19 | 23°47 | 21°55 | 8°55 | 21°37 | 28°37 | 24°20 | 25°45 | 26°21 | 24°14 | T 12 |
| W13 | 15 25 39 | 22°47'16 | 20°55 | 4°56 | 10°49 | 12° 5 | 24° 0 | 21°51 | 8°58 | 21°38 | 28°37 | 24°R20 | 25°42 | 26°28 | 24°19 | W13 |
| T 14 | 15 29 36 | 23°45'01 | 4♍35 | 4°40 | 12° 2 | 12°50 | 24°13 | 21°48 | 9° 1 | 21°39 | 28°38 | 24°20 | 25°39 | 26°34 | 24°24 | T 14 |
| F 15 | 15 33 32 | 24°42'44 | 18°39 | 4°21 | 13°16 | 13°36 | 24°25 | 21°44 | 9° 5 | 21°40 | 28°39 | 24°17 | 25°36 | 26°41 | 24°30 | F 15 |
| S 16 | 15 37 29 | 25°40'25 | 3♎ 7 | 3°58 | 14°30 | 14°21 | 24°38 | 21°40 | 9° 8 | 21°42 | 28°40 | 24°13 | 25°33 | 26°48 | 24°35 | S 16 |
| S 17 | 15 41 25 | 26°38'05 | 17°56 | 3°33 | 15°43 | 15° 6 | 24°51 | 21°36 | 9°12 | 21°43 | 28°41 | 24° 6 | 25°30 | 26°54 | 24°40 | S 17 |
| M18 | 15 45 22 | 27°35'43 | 3♏ 0 | 3° 4 | 16°57 | 15°52 | 25° 4 | 21°33 | 9°15 | 21°44 | 28°42 | 23°58 | 25°26 | 27° 1 | 24°46 | M18 |
| T 19 | 15 49 18 | 28°33'20 | 18° 9 | 2°33 | 18°10 | 16°37 | 25°17 | 21°29 | 9°19 | 21°45 | 28°43 | 23°50 | 25°23 | 27° 8 | 24°51 | T 19 |
| W20 | 15 53 15 | 29°30'56 | 3♐13 | 2° 1 | 19°24 | 17°22 | 25°30 | 21°25 | 9°22 | 21°46 | 28°44 | 23°42 | 25°20 | 27°15 | 24°56 | W20 |
| T 21 | 15 57 12 | 0♊28'31 | 18° 2 | 1°27 | 20°37 | 18° 7 | 25°43 | 21°21 | 9°26 | 21°47 | 28°45 | 23°36 | 25°17 | 27°21 | 25° 2 | T 21 |
| F 22 | 16 1 8 | 1°26'04 | 2♑30 | 0°53 | 21°51 | 18°53 | 25°56 | 21°17 | 9°29 | 21°49 | 28°46 | 23°32 | 25°14 | 27°28 | 25° 7 | F 22 |
| S 23 | 16 5 5 | 2°23'37 | 16°31 | 0°19 | 23° 5 | 19°38 | 26° 9 | 21°13 | 9°33 | 21°50 | 28°47 | 23°31 | 25°10 | 27°35 | 25°13 | S 23 |
| S 24 | 16 9 1 | 3°21'08 | 0♒ 4 | 29♉46 | 24°18 | 20°23 | 26°22 | 21° 9 | 9°36 | 21°51 | 28°48 | 23°D31 | 25° 7 | 27°42 | 25°18 | S 24 |
| M25 | 16 12 58 | 4°18'39 | 13°10 | 29°14 | 25°32 | 21° 8 | 26°35 | 21° 5 | 9°40 | 21°52 | 28°49 | 23°32 | 25° 4 | 27°48 | 25°24 | M25 |
| T 26 | 16 16 54 | 5°16'09 | 25°53 | 28°44 | 26°45 | 21°53 | 26°48 | 21° 1 | 9°43 | 21°53 | 28°50 | 23°33 | 25° 1 | 27°55 | 25°30 | T 26 |
| W27 | 16 20 51 | 6°13'38 | 8♓16 | 28°16 | 27°59 | 22°38 | 27° 1 | 20°56 | 9°47 | 21°53 | 28°51 | 23°R33 | 24°58 | 28° 2 | 25°35 | W27 |
| T 28 | 16 24 47 | 7°11'06 | 20°24 | 27°51 | 29°13 | 23°23 | 27°15 | 20°52 | 9°51 | 21°54 | 28°52 | 23°32 | 24°55 | 28° 8 | 25°41 | T 28 |
| F 29 | 16 28 44 | 8° 8'33 | 2♈23 | 27°29 | 0♊26 | 24° 7 | 27°28 | 20°48 | 9°54 | 21°55 | 28°53 | 23°29 | 24°51 | 28°15 | 25°46 | F 29 |
| S 30 | 16 32 41 | 9° 6'00 | 14°16 | 27°11 | 1°40 | 24°52 | 27°41 | 20°44 | 9°58 | 21°56 | 28°55 | 23°24 | 24°48 | 28°22 | 25°52 | S 30 |
| S 31 | 16 36 37 | 10♊ 3'26 | 26♈ 7 | 26♉56 | 2♊53 | 25♈37 | 27♊55 | 20♐39 | 10♊ 1 | 21♓57 | 28♋56 | 23♑18 | 24♑45 | 28♈29 | 25♊58 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 15n13 | 1n24 | 4n16 | 23n 6 | 2n37 | 8n48 | 1s24 | 0n 4 | 1s12 | 23n 2 | 0s10 | 21s49 | 1n27 | 21n42 | 0s 2 | 4s31 | 1s10 | 24n36 | 4n11 | 21s 2 | 20s55 | 14n31 | 17n35 | 5s44 |
| S 2 | 15 31 | 6 33 | 4 43 | 23 12 | 2 33 | 9 15 | 1 23 | 0 22 | 1 12 | 23 3 | 0 10 | 21 49 | 1 27 | 21 42 | 0 2 | 4 30 | 1 10 | 24 35 | 4 11 | 21 3 | 20 56 | 14 34 | 17 35 | 5 44 |
| S 3 | 15 49 | 11 27 | 4 58 | 23 15 | 2 29 | 9 43 | 1 21 | 0 41 | 1 11 | 23 4 | 0 10 | 21 49 | 1 27 | 21 43 | 0 2 | 4 29 | 1 10 | 24 35 | 4 11 | 21 6 | 20 56 | 14 36 | 17 36 | 5 44 |
| M 4 | 16 6 | 15 55 | 5 0 | 23 16 | 2 23 | 10 10 | 1 20 | 0 59 | 1 11 | 23 5 | 0 10 | 21 48 | 1 27 | 21 43 | 0 2 | 4 29 | 1 10 | 24 35 | 4 11 | 21 8 | 20 57 | 14 39 | 17 36 | 5 44 |
| T 5 | 16 23 | 19 47 | 4 49 | 23 15 | 2 17 | 10 37 | 1 19 | 1 17 | 1 11 | 23 6 | 0 10 | 21 48 | 1 27 | 21 44 | 0 2 | 4 28 | 1 10 | 24 35 | 4 11 | 21 10 | 20 58 | 14 41 | 17 37 | 5 43 |
| W 6 | 16 40 | 22 52 | 4 25 | 23 12 | 2 9 | 11 3 | 1 18 | 1 36 | 1 11 | 23 7 | 0 10 | 21 48 | 1 27 | 21 44 | 0 2 | 4 28 | 1 10 | 24 35 | 4 11 | 21 12 | 20 58 | 14 44 | 17 37 | 5 43 |
| T 7 | 16 57 | 24 58 | 3 50 | 23 6 | 2 0 | 11 30 | 1 16 | 1 54 | 1 11 | 23 7 | 0 10 | 21 48 | 1 27 | 21 45 | 0 2 | 4 27 | 1 10 | 24 35 | 4 11 | 21 14 | 20 59 | 14 46 | 17 37 | 5 43 |
| F 8 | 17 13 | 25 55 | 3 3 | 22 59 | 1 50 | 11 56 | 1 15 | 2 12 | 1 11 | 23 8 | 0 9 | 21 48 | 1 27 | 21 45 | 0 2 | 4 27 | 1 10 | 24 34 | 4 11 | 21 16 | 20 59 | 14 48 | 17 38 | 5 43 |
| S 9 | 17 29 | 25 36 | 2 8 | 22 50 | 1 39 | 12 22 | 1 13 | 2 31 | 1 10 | 23 9 | 0 9 | 21 47 | 1 27 | 21 46 | 0 2 | 4 26 | 1 10 | 24 34 | 4 11 | 21 17 | 21 0 | 14 51 | 17 38 | 5 43 |
| S 10 | 17 45 | 24 1 | 1 5 | 22 39 | 1 27 | 12 47 | 1 12 | 2 49 | 1 10 | 23 10 | 0 9 | 21 47 | 1 27 | 21 46 | 0 2 | 4 26 | 1 10 | 24 34 | 4 11 | 21 17 | 21 1 | 14 53 | 17 39 | 5 42 |
| M11 | 18 0 | 21 11 | 0s 2 | 22 25 | 1 14 | 13 12 | 1 10 | 3 7 | 1 10 | 23 10 | 0 9 | 21 47 | 1 27 | 21 47 | 0 2 | 4 25 | 1 10 | 24 34 | 4 11 | 21 17 | 21 1 | 14 56 | 17 39 | 5 42 |
| T 12 | 18 15 | 17 15 | 1 11 | 22 11 | 1 0 | 13 37 | 1 9 | 3 25 | 1 10 | 23 11 | 0 9 | 21 47 | 1 27 | 21 47 | 0 2 | 4 25 | 1 10 | 24 34 | 4 11 | 21 17 | 21 2 | 14 58 | 17 39 | 5 42 |
| W13 | 18 30 | 12 23 | 2 17 | 21 54 | 0 46 | 14 2 | 1 7 | 3 43 | 1 9 | 23 12 | 0 9 | 21 47 | 1 27 | 21 48 | 0 2 | 4 24 | 1 10 | 24 33 | 4 11 | 21 17 | 21 2 | 15 1 | 17 40 | 5 42 |
| T 14 | 18 45 | 6 47 | 3 18 | 21 36 | 0 30 | 14 26 | 1 5 | 4 1 | 1 9 | 23 12 | 0 9 | 21 46 | 1 27 | 21 49 | 0 2 | 4 24 | 1 10 | 24 33 | 4 11 | 21 17 | 21 3 | 15 3 | 17 40 | 5 42 |
| F 15 | 18 59 | 0 41 | 4 8 | 21 17 | 0 14 | 14 50 | 1 4 | 4 19 | 1 9 | 23 13 | 0 9 | 21 46 | 1 27 | 21 49 | 0 2 | 4 23 | 1 10 | 24 33 | 4 11 | 21 18 | 21 4 | 15 6 | 17 41 | 5 42 |
| S 16 | 19 13 | 5s36 | 4 45 | 20 56 | 0s 3 | 15 14 | 1 2 | 4 37 | 1 9 | 23 14 | 0 8 | 21 46 | 1 27 | 21 50 | 0 2 | 4 23 | 1 11 | 24 33 | 4 11 | 21 18 | 21 4 | 15 8 | 17 41 | 5 41 |
| S 17 | 19 26 | 11 43 | 5 3 | 20 34 | 0 20 | 15 37 | 1 0 | 4 55 | 1 8 | 23 14 | 0 8 | 21 46 | 1 27 | 21 50 | 0 2 | 4 22 | 1 11 | 24 33 | 4 10 | 21 20 | 21 5 | 15 11 | 17 41 | 5 41 |
| M18 | 19 39 | 17 14 | 5 1 | 20 12 | 0 37 | 16 0 | 0 58 | 5 12 | 1 8 | 23 15 | 0 8 | 21 45 | 1 27 | 21 51 | 0 2 | 4 22 | 1 11 | 24 32 | 4 10 | 21 21 | 21 5 | 15 13 | 17 42 | 5 41 |
| T 19 | 19 52 | 21 43 | 4 38 | 19 49 | 0 55 | 16 22 | 0 56 | 5 30 | 1 8 | 23 16 | 0 8 | 21 45 | 1 27 | 21 51 | 0 2 | 4 21 | 1 11 | 24 32 | 4 10 | 21 22 | 21 6 | 15 16 | 17 42 | 5 41 |
| W20 | 20 5 | 24 42 | 3 56 | 19 25 | 1 12 | 16 44 | 0 54 | 5 48 | 1 8 | 23 16 | 0 8 | 21 45 | 1 27 | 21 52 | 0 2 | 4 21 | 1 11 | 24 32 | 4 10 | 21 24 | 21 6 | 15 18 | 17 42 | 5 41 |
| T 21 | 20 17 | 25 54 | 2 58 | 19 1 | 1 30 | 17 6 | 0 52 | 6 5 | 1 7 | 23 17 | 0 8 | 21 45 | 1 27 | 21 52 | 0 2 | 4 21 | 1 11 | 24 32 | 4 10 | 21 25 | 21 7 | 15 20 | 17 43 | 5 41 |
| F 22 | 20 29 | 25 18 | 1 50 | 18 38 | 1 47 | 17 27 | 0 50 | 6 22 | 1 7 | 23 17 | 0 8 | 21 45 | 1 27 | 21 53 | 0 2 | 4 20 | 1 11 | 24 31 | 4 10 | 21 25 | 21 8 | 15 23 | 17 43 | 5 41 |
| S 23 | 20 41 | 23 5 | 0 38 | 18 15 | 2 3 | 17 48 | 0 48 | 6 40 | 1 7 | 23 18 | 0 8 | 21 44 | 1 27 | 21 53 | 0 2 | 4 20 | 1 11 | 24 31 | 4 10 | 21 26 | 21 8 | 15 25 | 17 43 | 5 41 |
| S 24 | 20 52 | 19 36 | 0n35 | 17 52 | 2 19 | 18 8 | 0 46 | 6 57 | 1 6 | 23 18 | 0 8 | 21 44 | 1 27 | 21 54 | 0 2 | 4 20 | 1 11 | 24 31 | 4 10 | 21 26 | 21 9 | 15 28 | 17 43 | 5 41 |
| M25 | 21 3 | 15 14 | 1 44 | 17 31 | 2 34 | 18 28 | 0 44 | 7 14 | 1 6 | 23 19 | 0 8 | 21 44 | 1 27 | 21 54 | 0 2 | 4 19 | 1 11 | 24 31 | 4 10 | 21 26 | 21 9 | 15 30 | 17 44 | 5 40 |
| T 26 | 21 13 | 10 19 | 2 45 | 17 11 | 2 48 | 18 47 | 0 42 | 7 32 | 1 6 | 23 19 | 0 7 | 21 44 | 1 27 | 21 55 | 0 2 | 4 19 | 1 11 | 24 30 | 4 10 | 21 25 | 21 10 | 15 33 | 17 44 | 5 40 |
| W27 | 21 23 | 5 7 | 3 37 | 16 52 | 3 1 | 19 6 | 0 40 | 7 49 | 1 5 | 23 19 | 0 7 | 21 43 | 1 27 | 21 56 | 0 2 | 4 19 | 1 11 | 24 30 | 4 10 | 21 25 | 21 10 | 15 35 | 17 44 | 5 40 |
| T 28 | 21 33 | 0n 9 | 4 19 | 16 35 | 3 13 | 19 24 | 0 38 | 8 6 | 1 5 | 23 20 | 0 7 | 21 43 | 1 27 | 21 56 | 0 2 | 4 18 | 1 11 | 24 30 | 4 10 | 21 26 | 21 11 | 15 37 | 17 45 | 5 40 |
| F 29 | 21 42 | 5 21 | 4 48 | 16 19 | 3 24 | 19 42 | 0 35 | 8 22 | 1 4 | 23 20 | 0 7 | 21 43 | 1 27 | 21 57 | 0 2 | 4 18 | 1 11 | 24 30 | 4 10 | 21 26 | 21 12 | 15 40 | 17 45 | 5 40 |
| S 30 | 21 51 | 10 18 | 5 4 | 16 6 | 3 33 | 19 59 | 0 33 | 8 39 | 1 4 | 23 21 | 0 7 | 21 43 | 1 27 | 21 57 | 0 2 | 4 18 | 1 11 | 24 29 | 4 10 | 21 27 | 21 12 | 15 42 | 17 45 | 5 40 |
| S 31 | 22n 0 | 14n52 | 5n 8 | 15n54 | 3s42 | 20n16 | 0s31 | 8n56 | 1s 4 | 23n21 | 0s 7 | 21s42 | 1n27 | 21n58 | 0s 2 | 4s17 | 1s11 | 24n29 | 4n10 | 21s28 | 21s13 | 15n44 | 17n45 | 5s40 |

Julian Day Number = 2339536.5, Delta T = 16.90 sec
Ecliptic obliquity = 23°28'49, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'34, Lahiri = 19°34'34Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## JUNE 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 40 34 | 11♊ 0'51 | 8♉ 0 | 26°R45 | 4♊ 7 | 26♈21 | 28♊ 8 | 20°R35 | 10♊ 5 | 21♓58 | 28♋57 | 23°R11 | 24♑42 | 28♈35 | 26♊ 3 | M 1 |
| T 2 | 16 44 30 | 11°58'16 | 19°57 | 26♉39 | 5°21 | 27° 6 | 28°21 | 20♐31 | 10° 8 | 21°58 | 28°58 | 23♑ 3 | 24°39 | 28°42 | 26° 9 | T 2 |
| W 3 | 16 48 27 | 12°55'40 | 2♊ 1 | 26°D37 | 6°34 | 27°51 | 28°35 | 20°26 | 10°12 | 21°59 | 28°59 | 22°56 | 24°36 | 28°49 | 26°15 | W 3 |
| T 4 | 16 52 23 | 13°53'03 | 14°13 | 26°39 | 7°48 | 28°35 | 28°48 | 20°22 | 10°15 | 22° 0 | 29° 1 | 22°50 | 24°32 | 28°55 | 26°21 | T 4 |
| F 5 | 16 56 20 | 14°50'25 | 26°33 | 26°46 | 9° 1 | 29°19 | 29° 2 | 20°18 | 10°19 | 22° 0 | 29° 2 | 22°45 | 24°29 | 29° 2 | 26°27 | F 5 |
| S 6 | 17 0 16 | 15°47'47 | 9♋ 4 | 26°57 | 10°15 | 0♉ 4 | 29°15 | 20°13 | 10°22 | 22° 1 | 29° 3 | 22°42 | 24°26 | 29° 9 | 26°32 | S 6 |
| S 7 | 17 4 13 | 16°45'08 | 21°46 | 27°13 | 11°29 | 0°48 | 29°29 | 20° 9 | 10°26 | 22° 2 | 29° 5 | 22°D42 | 24°23 | 29°16 | 26°38 | S 7 |
| M 8 | 17 8 10 | 17°42'28 | 4♌41 | 27°34 | 12°42 | 1°32 | 29°42 | 20° 4 | 10°30 | 22° 2 | 29° 6 | 22°42 | 24°20 | 29°22 | 26°44 | M 8 |
| T 9 | 17 12 6 | 18°39'46 | 17°50 | 27°58 | 13°56 | 2°17 | 29°56 | 20° 0 | 10°33 | 22° 3 | 29° 7 | 22°43 | 24°16 | 29°29 | 26°50 | T 9 |
| W10 | 17 16 3 | 19°37'04 | 1♍14 | 28°28 | 15°10 | 3° 1 | 0♋ 9 | 19°55 | 10°37 | 22° 3 | 29° 9 | 22°45 | 24°13 | 29°36 | 26°56 | W10 |
| T 11 | 17 19 59 | 20°34'21 | 14°56 | 29° 1 | 16°23 | 3°45 | 0°23 | 19°51 | 10°40 | 22° 4 | 29°10 | 22°R46 | 24°10 | 29°43 | 27° 2 | T 11 |
| F 12 | 17 23 56 | 21°31'38 | 28°55 | 29°39 | 17°37 | 4°29 | 0°36 | 19°47 | 10°44 | 22° 4 | 29°11 | 22°46 | 24° 7 | 29°49 | 27° 7 | F 12 |
| S 13 | 17 27 52 | 22°28'53 | 13♎11 | 0♊21 | 18°51 | 5°13 | 0°50 | 19°42 | 10°47 | 22° 4 | 29°13 | 22°44 | 24° 4 | 29°56 | 27°13 | S 13 |
| S 14 | 17 31 49 | 23°26'07 | 27°41 | 1° 8 | 20° 4 | 5°56 | 1° 3 | 19°38 | 10°51 | 22° 5 | 29°14 | 22°42 | 24° 1 | 0♉ 3 | 27°19 | S 14 |
| M15 | 17 35 45 | 24°23'21 | 12♏23 | 1°58 | 21°18 | 6°40 | 1°17 | 19°33 | 10°54 | 22° 5 | 29°16 | 22°38 | 23°57 | 0° 9 | 27°25 | M15 |
| T 16 | 17 39 42 | 25°20'34 | 27° 8 | 2°52 | 22°32 | 7°24 | 1°31 | 19°29 | 10°57 | 22° 5 | 29°17 | 22°35 | 23°54 | 0°16 | 27°31 | T 16 |
| W17 | 17 43 39 | 26°17'47 | 11♐51 | 3°50 | 23°45 | 8° 8 | 1°44 | 19°25 | 11° 1 | 22° 6 | 29°19 | 22°31 | 23°51 | 0°23 | 27°37 | W17 |
| T 18 | 17 47 35 | 27°14'59 | 26°23 | 4°52 | 24°59 | 8°51 | 1°58 | 19°20 | 11° 4 | 22° 6 | 29°20 | 22°28 | 23°48 | 0°30 | 27°43 | T 18 |
| F 19 | 17 51 32 | 28°12'11 | 10♑39 | 5°58 | 26°13 | 9°35 | 2°11 | 19°16 | 11° 8 | 22° 6 | 29°22 | 22°27 | 23°45 | 0°36 | 27°49 | F 19 |
| S 20 | 17 55 28 | 29° 9'23 | 24°34 | 7° 8 | 27°26 | 10°18 | 2°25 | 19°12 | 11°11 | 22° 6 | 29°23 | 22°D26 | 23°42 | 0°43 | 27°54 | S 20 |
| S 21 | 17 59 25 | 0♋ 6'34 | 8♒ 6 | 8°21 | 28°40 | 11° 2 | 2°39 | 19° 7 | 11°15 | 22° 6 | 29°25 | 22°27 | 23°38 | 0°50 | 28° 0 | S 21 |
| M22 | 18 3 21 | 1° 3'46 | 21°13 | 9°38 | 29°54 | 11°45 | 2°52 | 19° 3 | 11°18 | 22° 6 | 29°26 | 22°28 | 23°35 | 0°57 | 28° 6 | M22 |
| T 23 | 18 7 18 | 2° 0'57 | 3♓59 | 10°59 | 1♋ 7 | 12°28 | 3° 6 | 18°59 | 11°21 | 22° 6 | 29°28 | 22°30 | 23°32 | 1° 3 | 28°12 | T 23 |
| W24 | 18 11 14 | 2°58'08 | 16°26 | 12°23 | 2°21 | 13°11 | 3°20 | 18°54 | 11°25 | 22°R 6 | 29°29 | 22°31 | 23°29 | 1°10 | 28°18 | W24 |
| T 25 | 18 15 11 | 3°55'19 | 28°37 | 13°51 | 3°35 | 13°54 | 3°33 | 18°50 | 11°28 | 22° 6 | 29°31 | 22°R32 | 23°26 | 1°17 | 28°24 | T 25 |
| F 26 | 18 19 8 | 4°52'31 | 10♈37 | 15°22 | 4°48 | 14°38 | 3°47 | 18°46 | 11°31 | 22° 6 | 29°32 | 22°32 | 23°22 | 1°23 | 28°30 | F 26 |
| S 27 | 18 23 4 | 5°49'43 | 22°32 | 16°57 | 6° 2 | 15°21 | 4° 1 | 18°42 | 11°35 | 22° 6 | 29°34 | 22°31 | 23°19 | 1°30 | 28°36 | S 27 |
| S 28 | 18 27 1 | 6°46'54 | 4♉24 | 18°35 | 7°16 | 16° 3 | 4°14 | 18°38 | 11°38 | 22° 6 | 29°35 | 22°30 | 23°16 | 1°37 | 28°42 | S 28 |
| M29 | 18 30 57 | 7°44'07 | 16°20 | 20°17 | 8°30 | 16°46 | 4°28 | 18°34 | 11°41 | 22° 6 | 29°37 | 22°28 | 23°13 | 1°44 | 28°48 | M29 |
| T 30 | 18 34 54 | 8♋41'19 | 28♉21 | 22♊ 1 | 9♋43 | 17♉29 | 4♋41 | 18♐30 | 11♊45 | 22♓ 6 | 29♋39 | 22♑26 | 23♑10 | 1♉50 | 28♊53 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22n 8 | 18n54 | 4n58 | 15n45 | 3s49 | 20n32 | 0s29 | 9n12 | 1s 3 | 23n21 | 0s 7 | 21s42 | 1n27 | 21n58 | 0s 2 | 4s17 | 1s11 | 24n29 | 4n10 | 21s29 | 21s13 | 15n47 | 17n45 | 5s40 |
| T 2 | 22 16 | 22 10 | 4 35 | 15 38 | 3 55 | 20 48 | 0 26 | 9 29 | 1 3 | 23 22 | 0 7 | 21 42 | 1 27 | 21 59 | 0 2 | 4 17 | 1 11 | 24 29 | 4 10 | 21 30 | 21 14 | 15 49 | 17 46 | 5 40 |
| W 3 | 22 23 | 24 31 | 4 0 | 15 33 | 4 0 | 21 3 | 0 24 | 9 45 | 1 2 | 23 22 | 0 7 | 21 41 | 1 27 | 21 59 | 0 2 | 4 17 | 1 11 | 24 28 | 4 10 | 21 32 | 21 14 | 15 52 | 17 46 | 5 40 |
| T 4 | 22 30 | 25 45 | 3 14 | 15 30 | 4 3 | 21 17 | 0 22 | 10 1 | 1 2 | 23 22 | 0 6 | 21 41 | 1 27 | 22 0 | 0 2 | 4 16 | 1 11 | 24 28 | 4 10 | 21 33 | 21 15 | 15 54 | 17 46 | 5 40 |
| F 5 | 22 37 | 25 43 | 2 17 | 15 29 | 4 5 | 21 31 | 0 19 | 10 18 | 1 2 | 23 22 | 0 6 | 21 41 | 1 27 | 22 0 | 0 2 | 4 16 | 1 11 | 24 28 | 4 10 | 21 33 | 21 16 | 15 56 | 17 46 | 5 40 |
| S 6 | 22 43 | 24 23 | 1 13 | 15 31 | 4 7 | 21 45 | 0 17 | 10 34 | 1 1 | 23 22 | 0 6 | 21 41 | 1 27 | 22 1 | 0 2 | 4 16 | 1 12 | 24 28 | 4 10 | 21 34 | 21 16 | 15 59 | 17 46 | 5 40 |
| S 7 | 22 49 | 21 48 | 0 5 | 15 34 | 4 7 | 21 57 | 0 15 | 10 49 | 1 1 | 23 23 | 0 6 | 21 40 | 1 27 | 22 1 | 0 2 | 4 16 | 1 12 | 24 27 | 4 10 | 21 34 | 21 17 | 16 1 | 17 47 | 5 40 |
| M 8 | 22 55 | 18 4 | 1s 5 | 15 40 | 4 6 | 22 9 | 0 12 | 11 5 | 1 0 | 23 23 | 0 6 | 21 40 | 1 27 | 22 2 | 0 2 | 4 16 | 1 12 | 24 27 | 4 10 | 21 34 | 21 17 | 16 3 | 17 47 | 5 40 |
| T 9 | 23 0 | 13 24 | 2 13 | 15 47 | 4 4 | 22 21 | 0 10 | 11 21 | 1 0 | 23 23 | 0 6 | 21 40 | 1 26 | 22 2 | 0 2 | 4 16 | 1 12 | 24 27 | 4 10 | 21 34 | 21 18 | 16 6 | 17 47 | 5 40 |
| W10 | 23 4 | 8 1 | 3 15 | 15 56 | 4 1 | 22 32 | 0 7 | 11 36 | 0 59 | 23 23 | 0 6 | 21 40 | 1 26 | 22 3 | 0 2 | 4 15 | 1 12 | 24 26 | 4 10 | 21 33 | 21 18 | 16 8 | 17 47 | 5 40 |
| T 11 | 23 9 | 2 9 | 4 7 | 16 7 | 3 57 | 22 42 | 0 5 | 11 52 | 0 59 | 23 23 | 0 6 | 21 39 | 1 26 | 22 3 | 0 2 | 4 15 | 1 12 | 24 26 | 4 10 | 21 33 | 21 19 | 16 10 | 17 47 | 5 40 |
| F 12 | 23 13 | 3s56 | 4 46 | 16 20 | 3 52 | 22 51 | 0 3 | 12 7 | 0 58 | 23 23 | 0 6 | 21 39 | 1 26 | 22 4 | 0 2 | 4 15 | 1 12 | 24 26 | 4 10 | 21 33 | 21 19 | 16 13 | 17 47 | 5 40 |
| S 13 | 23 16 | 9 56 | 5 8 | 16 34 | 3 47 | 23 0 | 0 0 | 12 22 | 0 58 | 23 23 | 0 6 | 21 39 | 1 26 | 22 4 | 0 2 | 4 15 | 1 12 | 24 26 | 4 10 | 21 34 | 21 20 | 16 15 | 17 47 | 5 40 |
| S 14 | 23 19 | 15 30 | 5 11 | 16 49 | 3 40 | 23 9 | 0n 2 | 12 37 | 0 57 | 23 23 | 0 5 | 21 39 | 1 26 | 22 5 | 0 2 | 4 15 | 1 12 | 24 25 | 4 10 | 21 34 | 21 21 | 16 17 | 17 47 | 5 40 |
| M15 | 23 22 | 20 15 | 4 54 | 17 6 | 3 33 | 23 16 | 0 4 | 12 52 | 0 57 | 23 23 | 0 5 | 21 38 | 1 26 | 22 5 | 0 2 | 4 15 | 1 12 | 24 25 | 4 10 | 21 35 | 21 21 | 16 20 | 17 47 | 5 40 |
| T 16 | 23 24 | 23 44 | 4 18 | 17 24 | 3 26 | 23 23 | 0 7 | 13 7 | 0 56 | 23 23 | 0 5 | 21 38 | 1 26 | 22 6 | 0 2 | 4 15 | 1 12 | 24 25 | 4 10 | 21 35 | 21 22 | 16 22 | 17 47 | 5 40 |
| W17 | 23 26 | 25 37 | 3 24 | 17 43 | 3 17 | 23 29 | 0 9 | 13 22 | 0 56 | 23 23 | 0 5 | 21 38 | 1 26 | 22 6 | 0 2 | 4 15 | 1 12 | 24 24 | 4 10 | 21 36 | 21 22 | 16 24 | 17 47 | 5 40 |
| T 18 | 23 27 | 25 44 | 2 18 | 18 3 | 3 8 | 23 35 | 0 12 | 13 36 | 0 55 | 23 23 | 0 5 | 21 38 | 1 26 | 22 7 | 0 2 | 4 15 | 1 12 | 24 24 | 4 10 | 21 36 | 21 23 | 16 27 | 17 47 | 5 40 |
| F 19 | 23 28 | 24 7 | 1 4 | 18 24 | 2 59 | 23 39 | 0 14 | 13 50 | 0 55 | 23 23 | 0 5 | 21 37 | 1 26 | 22 7 | 0 2 | 4 15 | 1 12 | 24 24 | 4 10 | 21 36 | 21 23 | 16 29 | 17 47 | 5 40 |
| S 20 | 23 29 | 21 3 | 0n12 | 18 46 | 2 49 | 23 44 | 0 16 | 14 5 | 0 54 | 23 23 | 0 5 | 21 37 | 1 26 | 22 8 | 0 2 | 4 15 | 1 12 | 24 23 | 4 10 | 21 36 | 21 24 | 16 31 | 17 47 | 5 40 |
| S 21 | 23 29 | 16 54 | 1 25 | 19 8 | 2 39 | 23 47 | 0 19 | 14 19 | 0 54 | 23 22 | 0 5 | 21 37 | 1 25 | 22 8 | 0 2 | 4 15 | 1 12 | 24 23 | 4 10 | 21 36 | 21 24 | 16 34 | 17 48 | 5 40 |
| M22 | 23 29 | 12 3 | 2 32 | 19 30 | 2 28 | 23 50 | 0 21 | 14 33 | 0 53 | 23 22 | 0 5 | 21 37 | 1 25 | 22 9 | 0 2 | 4 15 | 1 12 | 24 23 | 4 10 | 21 36 | 21 25 | 16 36 | 17 47 | 5 41 |
| T 23 | 23 28 | 6 49 | 3 29 | 19 52 | 2 17 | 23 52 | 0 23 | 14 46 | 0 53 | 23 22 | 0 5 | 21 36 | 1 25 | 22 9 | 0 2 | 4 15 | 1 12 | 24 22 | 4 10 | 21 36 | 21 26 | 16 38 | 17 47 | 5 41 |
| W24 | 23 27 | 1 27 | 4 15 | 20 15 | 2 5 | 23 53 | 0 25 | 15 0 | 0 52 | 23 22 | 0 5 | 21 36 | 1 25 | 22 10 | 0 2 | 4 15 | 1 12 | 24 22 | 4 10 | 21 36 | 21 26 | 16 40 | 17 47 | 5 41 |
| T 25 | 23 25 | 3n51 | 4 48 | 20 38 | 1 53 | 23 54 | 0 28 | 15 13 | 0 51 | 23 22 | 0 4 | 21 36 | 1 25 | 22 10 | 0 2 | 4 15 | 1 12 | 24 22 | 4 10 | 21 36 | 21 27 | 16 43 | 17 47 | 5 41 |
| F 26 | 23 23 | 8 56 | 5 9 | 21 0 | 1 41 | 23 53 | 0 30 | 15 27 | 0 51 | 23 21 | 0 4 | 21 36 | 1 25 | 22 11 | 0 2 | 4 15 | 1 12 | 24 22 | 4 10 | 21 36 | 21 27 | 16 45 | 17 47 | 5 41 |
| S 27 | 23 21 | 13 39 | 5 15 | 21 22 | 1 29 | 23 53 | 0 32 | 15 40 | 0 50 | 23 21 | 0 4 | 21 35 | 1 25 | 22 11 | 0 2 | 4 15 | 1 13 | 24 21 | 4 10 | 21 36 | 21 28 | 16 47 | 17 47 | 5 41 |
| S 28 | 23 18 | 17 51 | 5 9 | 21 43 | 1 17 | 23 51 | 0 34 | 15 53 | 0 50 | 23 21 | 0 4 | 21 35 | 1 25 | 22 12 | 0 2 | 4 15 | 1 13 | 24 21 | 4 10 | 21 36 | 21 28 | 16 49 | 17 47 | 5 41 |
| M29 | 23 15 | 21 21 | 4 49 | 22 3 | 1 4 | 23 49 | 0 37 | 16 6 | 0 49 | 23 20 | 0 4 | 21 35 | 1 24 | 22 12 | 0 2 | 4 15 | 1 13 | 24 21 | 4 10 | 21 36 | 21 29 | 16 52 | 17 47 | 5 41 |
| T 30 | 23n12 | 23n59 | 4n16 | 22n22 | 0s52 | 23n46 | 0n39 | 16n18 | 0s48 | 23n20 | 0s 4 | 21s35 | 1n24 | 22n12 | 0s 2 | 4s15 | 1s13 | 24n20 | 4n10 | 21s37 | 21s29 | 16n54 | 17n47 | 5s42 |

Julian Day Number = 2339567.5, Delta T = 16.87 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'38, Lahiri = 19°34'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## JULY 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 38 50 | 9♋38'32 | 10♊31 | 23♊49 | 10♋57 | 18♉12 | 4♋55 | 18°R26 | 11♊48 | 22°R 6 | 29♋40 | 22°R24 | 23♑ 7 | 1♉57 | 28♊59 | W 1 |
| T 2 | 18 42 47 | 10°35'44 | 22°53 | 25°40 | 12°11 | 18°54 | 5° 9 | 18♐22 | 11°51 | 22♓ 5 | 29°42 | 22♑22 | 23° 3 | 2° 4 | 29° 5 | T 2 |
| F 3 | 18 46 43 | 11°32'57 | 5♋28 | 27°33 | 13°25 | 19°37 | 5°22 | 18°18 | 11°54 | 22° 5 | 29°43 | 22°21 | 23° 0 | 2°10 | 29°11 | F 3 |
| S 4 | 18 50 40 | 12°30'11 | 18°17 | 29°30 | 14°39 | 20°19 | 5°36 | 18°14 | 11°57 | 22° 5 | 29°45 | 22°D21 | 22°57 | 2°17 | 29°17 | S 4 |
| S 5 | 18 54 37 | 13°27'24 | 1♌20 | 1♋28 | 15°52 | 21° 2 | 5°49 | 18°10 | 12° 1 | 22° 5 | 29°47 | 22°21 | 22°54 | 2°24 | 29°23 | S 5 |
| M 6 | 18 58 33 | 14°24'37 | 14°37 | 3°29 | 17° 6 | 21°44 | 6° 3 | 18° 6 | 12° 4 | 22° 4 | 29°48 | 22°21 | 22°51 | 2°31 | 29°28 | M 6 |
| T 7 | 19 2 30 | 15°21'51 | 28° 7 | 5°32 | 18°20 | 22°26 | 6°17 | 18° 3 | 12° 7 | 22° 4 | 29°50 | 22°22 | 22°48 | 2°37 | 29°34 | T 7 |
| W 8 | 19 6 26 | 16°19'04 | 11♍50 | 7°37 | 19°34 | 23° 8 | 6°30 | 17°59 | 12°10 | 22° 3 | 29°52 | 22°23 | 22°44 | 2°44 | 29°40 | W 8 |
| T 9 | 19 10 23 | 17°16'17 | 25°44 | 9°43 | 20°48 | 23°50 | 6°44 | 17°56 | 12°13 | 22° 3 | 29°53 | 22°23 | 22°41 | 2°51 | 29°46 | T 9 |
| F 10 | 19 14 19 | 18°13'31 | 9♎47 | 11°50 | 22° 2 | 24°32 | 6°57 | 17°52 | 12°16 | 22° 2 | 29°55 | 22°23 | 22°38 | 2°58 | 29°51 | F 10 |
| S 11 | 19 18 16 | 19°10'44 | 23°59 | 13°58 | 23°15 | 25°14 | 7°11 | 17°49 | 12°19 | 22° 2 | 29°57 | 22°R23 | 22°35 | 3° 4 | 29°57 | S 11 |
| S 12 | 19 22 12 | 20° 7'58 | 8♏17 | 16° 6 | 24°29 | 25°56 | 7°24 | 17°45 | 12°22 | 22° 1 | 29°58 | 22°23 | 22°32 | 3°11 | 0♋ 3 | S 12 |
| M13 | 19 26 9 | 21° 5'12 | 22°37 | 18°15 | 25°43 | 26°38 | 7°37 | 17°42 | 12°25 | 22° 1 | 0♌ 0 | 22°23 | 22°28 | 3°18 | 0° 8 | M13 |
| T 14 | 19 30 6 | 22° 2'26 | 6♐57 | 20°23 | 26°57 | 27°20 | 7°51 | 17°39 | 12°28 | 22° 0 | 0° 2 | 22°D23 | 22°25 | 3°24 | 0°14 | T 14 |
| W15 | 19 34 2 | 22°59'40 | 21°12 | 22°31 | 28°11 | 28° 1 | 8° 4 | 17°35 | 12°31 | 22° 0 | 0° 4 | 22°23 | 22°22 | 3°31 | 0°20 | W15 |
| T 16 | 19 37 59 | 23°56'55 | 5♑18 | 24°39 | 29°25 | 28°43 | 8°18 | 17°32 | 12°34 | 21°59 | 0° 5 | 22°23 | 22°19 | 3°38 | 0°25 | T 16 |
| F 17 | 19 41 55 | 24°54'10 | 19°12 | 26°45 | 0♌39 | 29°24 | 8°31 | 17°29 | 12°37 | 21°58 | 0° 7 | 22°R23 | 22°16 | 3°45 | 0°31 | F 17 |
| S 18 | 19 45 52 | 25°51'26 | 2♒50 | 28°51 | 1°53 | 0♊ 5 | 8°44 | 17°26 | 12°39 | 21°57 | 0° 9 | 22°23 | 22°13 | 3°51 | 0°37 | S 18 |
| S 19 | 19 49 48 | 26°48'42 | 16°10 | 0♌56 | 3° 6 | 0°47 | 8°57 | 17°23 | 12°42 | 21°57 | 0°10 | 22°23 | 22° 9 | 3°58 | 0°42 | S 19 |
| M20 | 19 53 45 | 27°45'59 | 29°12 | 2°59 | 4°20 | 1°28 | 9°11 | 17°20 | 12°45 | 21°56 | 0°12 | 22°22 | 22° 6 | 4° 5 | 0°48 | M20 |
| T 21 | 19 57 42 | 28°43'17 | 11♓55 | 5° 1 | 5°34 | 2° 9 | 9°24 | 17°18 | 12°48 | 21°55 | 0°14 | 22°22 | 22° 3 | 4°11 | 0°53 | T 21 |
| W22 | 20 1 38 | 29°40'35 | 24°21 | 7° 1 | 6°48 | 2°50 | 9°37 | 17°15 | 12°50 | 21°54 | 0°15 | 22°21 | 22° 0 | 4°18 | 0°59 | W22 |
| T 23 | 20 5 35 | 0♌37'55 | 6♈34 | 9° 1 | 8° 2 | 3°31 | 9°50 | 17°12 | 12°53 | 21°53 | 0°17 | 22°20 | 21°57 | 4°25 | 1° 4 | T 23 |
| F 24 | 20 9 31 | 1°35'15 | 18°35 | 10°58 | 9°16 | 4°11 | 10° 3 | 17°10 | 12°56 | 21°52 | 0°19 | 22°19 | 21°54 | 4°32 | 1° 9 | F 24 |
| S 25 | 20 13 28 | 2°32'37 | 0♉30 | 12°54 | 10°30 | 4°52 | 10°16 | 17° 7 | 12°58 | 21°52 | 0°21 | 22°D19 | 21°50 | 4°38 | 1°15 | S 25 |
| S 26 | 20 17 24 | 3°30'00 | 12°24 | 14°48 | 11°44 | 5°33 | 10°30 | 17° 5 | 13° 1 | 21°51 | 0°22 | 22°19 | 21°47 | 4°45 | 1°20 | S 26 |
| M27 | 20 21 21 | 4°27'23 | 24°19 | 16°41 | 12°58 | 6°13 | 10°43 | 17° 3 | 13° 3 | 21°50 | 0°24 | 22°20 | 21°44 | 4°52 | 1°25 | M27 |
| T 28 | 20 25 17 | 5°24'48 | 6♊22 | 18°32 | 14°12 | 6°54 | 10°55 | 17° 1 | 13° 6 | 21°49 | 0°26 | 22°21 | 21°41 | 4°59 | 1°31 | T 28 |
| W29 | 20 29 14 | 6°22'15 | 18°37 | 20°22 | 15°26 | 7°34 | 11° 8 | 16°58 | 13° 8 | 21°48 | 0°27 | 22°22 | 21°38 | 5° 5 | 1°36 | W29 |
| T 30 | 20 33 11 | 7°19'42 | 1♋ 6 | 22° 9 | 16°40 | 8°14 | 11°21 | 16°56 | 13°11 | 21°47 | 0°29 | 22°23 | 21°34 | 5°12 | 1°41 | T 30 |
| F 31 | 20 37 7 | 8♌17'11 | 13♋53 | 23♌56 | 17♌54 | 8♊54 | 11♋34 | 16♐54 | 13♊13 | 21♓46 | 0♌31 | 22♑24 | 21♑31 | 5♉19 | 1♋46 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23n 8 | 25n33 | 3n31 | 22n41 | 0s40 | 23n42 | 0n41 | 16n31 | 0s48 | 23n19 | 0s 4 | 21s35 | 1n24 | 22n13 | 0s 2 | 4s15 | 1s13 | 24n20 | 4n10 | 21s37 | 21s30 | 16n56 | 17n47 | 5s42 |
| T 2 | 23 3 | 25 53 | 2 36 | 22 57 | 0 27 | 23 38 | 0 43 | 16 43 | 0 47 | 23 19 | 0 4 | 21 34 | 1 24 | 22 13 | 0 2 | 4 15 | 1 13 | 24 20 | 4 10 | 21 37 | 21 30 | 16 58 | 17 47 | 5 42 |
| F 3 | 22 59 | 24 54 | 1 32 | 23 12 | 0 15 | 23 33 | 0 45 | 16 55 | 0 46 | 23 19 | 0 4 | 21 34 | 1 24 | 22 14 | 0 2 | 4 16 | 1 13 | 24 19 | 4 10 | 21 37 | 21 31 | 17 1 | 17 47 | 5 42 |
| S 4 | 22 53 | 22 36 | 0 22 | 23 25 | 0 4 | 23 27 | 0 47 | 17 7 | 0 46 | 23 18 | 0 4 | 21 34 | 1 24 | 22 14 | 0 2 | 4 16 | 1 13 | 24 19 | 4 11 | 21 37 | 21 31 | 17 3 | 17 47 | 5 42 |
| S 5 | 22 48 | 19 6 | 0s50 | 23 36 | 0n 8 | 23 21 | 0 49 | 17 19 | 0 45 | 23 18 | 0 3 | 21 34 | 1 24 | 22 15 | 0 2 | 4 16 | 1 13 | 24 19 | 4 11 | 21 37 | 21 32 | 17 5 | 17 46 | 5 42 |
| M 6 | 22 42 | 14 34 | 2 0 | 23 45 | 0 19 | 23 13 | 0 51 | 17 31 | 0 44 | 23 17 | 0 3 | 21 34 | 1 24 | 22 15 | 0 2 | 4 16 | 1 13 | 24 18 | 4 11 | 21 37 | 21 32 | 17 7 | 17 46 | 5 43 |
| T 7 | 22 36 | 9 15 | 3 5 | 23 51 | 0 30 | 23 6 | 0 53 | 17 42 | 0 44 | 23 17 | 0 3 | 21 33 | 1 23 | 22 15 | 0 1 | 4 16 | 1 13 | 24 18 | 4 11 | 21 37 | 21 33 | 17 10 | 17 46 | 5 43 |
| W 8 | 22 29 | 3 25 | 4 1 | 23 55 | 0 40 | 22 57 | 0 55 | 17 54 | 0 43 | 23 16 | 0 3 | 21 33 | 1 23 | 22 16 | 0 1 | 4 17 | 1 13 | 24 18 | 4 11 | 21 37 | 21 34 | 17 12 | 17 46 | 5 43 |
| T 9 | 22 22 | 2s38 | 4 43 | 23 56 | 0 49 | 22 48 | 0 56 | 18 5 | 0 42 | 23 15 | 0 3 | 21 33 | 1 23 | 22 16 | 0 1 | 4 17 | 1 13 | 24 17 | 4 11 | 21 37 | 21 34 | 17 14 | 17 46 | 5 43 |
| F 10 | 22 14 | 8 37 | 5 9 | 23 55 | 0 58 | 22 38 | 0 58 | 18 16 | 0 42 | 23 15 | 0 3 | 21 33 | 1 23 | 22 17 | 0 1 | 4 17 | 1 13 | 24 17 | 4 11 | 21 37 | 21 35 | 17 16 | 17 45 | 5 43 |
| S 11 | 22 6 | 14 13 | 5 17 | 23 51 | 1 6 | 22 27 | 1 0 | 18 27 | 0 41 | 23 14 | 0 3 | 21 33 | 1 23 | 22 17 | 0 1 | 4 17 | 1 13 | 24 17 | 4 11 | 21 37 | 21 35 | 17 18 | 17 45 | 5 44 |
| S 12 | 21 58 | 19 5 | 5 5 | 23 44 | 1 14 | 22 16 | 1 2 | 18 37 | 0 40 | 23 14 | 0 3 | 21 33 | 1 23 | 22 18 | 0 1 | 4 17 | 1 13 | 24 16 | 4 11 | 21 37 | 21 36 | 17 20 | 17 45 | 5 44 |
| M13 | 21 49 | 22 52 | 4 34 | 23 34 | 1 21 | 22 4 | 1 3 | 18 48 | 0 40 | 23 13 | 0 3 | 21 32 | 1 23 | 22 18 | 0 1 | 4 18 | 1 13 | 24 16 | 4 11 | 21 37 | 21 36 | 17 23 | 17 45 | 5 44 |
| T 14 | 21 40 | 25 13 | 3 46 | 23 22 | 1 27 | 21 52 | 1 5 | 18 58 | 0 39 | 23 12 | 0 3 | 21 32 | 1 22 | 22 18 | 0 1 | 4 18 | 1 13 | 24 16 | 4 11 | 21 37 | 21 37 | 17 25 | 17 45 | 5 44 |
| W15 | 21 31 | 25 55 | 2 44 | 23 6 | 1 32 | 21 39 | 1 6 | 19 8 | 0 38 | 23 12 | 0 2 | 21 32 | 1 22 | 22 19 | 0 1 | 4 18 | 1 13 | 24 15 | 4 11 | 21 37 | 21 37 | 17 27 | 17 44 | 5 44 |
| T 16 | 21 21 | 24 56 | 1 33 | 22 49 | 1 36 | 21 25 | 1 8 | 19 18 | 0 37 | 23 11 | 0 2 | 21 32 | 1 22 | 22 19 | 0 1 | 4 19 | 1 13 | 24 15 | 4 11 | 21 37 | 21 38 | 17 29 | 17 44 | 5 45 |
| F 17 | 21 11 | 22 24 | 0 18 | 22 29 | 1 40 | 21 11 | 1 9 | 19 28 | 0 37 | 23 10 | 0 2 | 21 32 | 1 22 | 22 19 | 0 1 | 4 19 | 1 13 | 24 15 | 4 11 | 21 37 | 21 38 | 17 31 | 17 44 | 5 45 |
| S 18 | 21 1 | 18 37 | 0n58 | 22 6 | 1 43 | 20 56 | 1 11 | 19 37 | 0 36 | 23 9 | 0 2 | 21 32 | 1 22 | 22 20 | 0 1 | 4 19 | 1 14 | 24 15 | 4 11 | 21 37 | 21 39 | 17 34 | 17 43 | 5 45 |
| S 19 | 20 50 | 13 59 | 2 8 | 21 42 | 1 45 | 20 40 | 1 12 | 19 46 | 0 35 | 23 9 | 0 2 | 21 32 | 1 22 | 22 20 | 0 1 | 4 20 | 1 14 | 24 14 | 4 11 | 21 37 | 21 39 | 17 36 | 17 43 | 5 46 |
| M20 | 20 39 | 8 48 | 3 10 | 21 15 | 1 47 | 20 24 | 1 14 | 19 56 | 0 34 | 23 8 | 0 2 | 21 32 | 1 21 | 22 21 | 0 1 | 4 20 | 1 14 | 24 14 | 4 11 | 21 37 | 21 40 | 17 38 | 17 43 | 5 46 |
| T 21 | 20 27 | 3 23 | 4 1 | 20 47 | 1 48 | 20 7 | 1 15 | 20 5 | 0 34 | 23 7 | 0 2 | 21 31 | 1 21 | 22 21 | 0 1 | 4 20 | 1 14 | 24 14 | 4 11 | 21 37 | 21 40 | 17 40 | 17 43 | 5 46 |
| W22 | 20 15 | 2n 2 | 4 40 | 20 17 | 1 48 | 19 50 | 1 16 | 20 13 | 0 33 | 23 6 | 0 2 | 21 31 | 1 21 | 22 21 | 0 1 | 4 21 | 1 14 | 24 13 | 4 11 | 21 37 | 21 41 | 17 42 | 17 42 | 5 46 |
| T 23 | 20 3 | 7 16 | 5 5 | 19 45 | 1 47 | 19 32 | 1 17 | 20 22 | 0 32 | 23 5 | 0 2 | 21 31 | 1 21 | 22 22 | 0 1 | 4 21 | 1 14 | 24 13 | 4 12 | 21 38 | 21 41 | 17 44 | 17 42 | 5 47 |
| F 24 | 19 50 | 12 9 | 5 16 | 19 12 | 1 46 | 19 13 | 1 18 | 20 30 | 0 31 | 23 4 | 0 2 | 21 31 | 1 21 | 22 22 | 0 1 | 4 21 | 1 14 | 24 13 | 4 12 | 21 38 | 21 42 | 17 46 | 17 42 | 5 47 |
| S 25 | 19 38 | 16 33 | 5 13 | 18 38 | 1 44 | 18 54 | 1 19 | 20 39 | 0 31 | 23 3 | 0 2 | 21 31 | 1 21 | 22 22 | 0 1 | 4 22 | 1 14 | 24 12 | 4 12 | 21 38 | 21 42 | 17 48 | 17 41 | 5 47 |
| S 26 | 19 24 | 20 18 | 4 57 | 18 3 | 1 42 | 18 35 | 1 20 | 20 47 | 0 30 | 23 2 | 0 1 | 21 31 | 1 20 | 22 23 | 0 1 | 4 22 | 1 14 | 24 12 | 4 12 | 21 38 | 21 43 | 17 51 | 17 41 | 5 48 |
| M27 | 19 11 | 23 13 | 4 28 | 17 26 | 1 39 | 18 15 | 1 21 | 20 55 | 0 29 | 23 2 | 0 1 | 21 31 | 1 20 | 22 23 | 0 1 | 4 23 | 1 14 | 24 12 | 4 12 | 21 38 | 21 43 | 17 53 | 17 40 | 5 48 |
| T 28 | 18 57 | 25 9 | 3 48 | 16 49 | 1 35 | 17 54 | 1 22 | 21 2 | 0 28 | 23 1 | 0 1 | 21 31 | 1 20 | 22 23 | 0 1 | 4 23 | 1 14 | 24 11 | 4 12 | 21 37 | 21 44 | 17 55 | 17 40 | 5 48 |
| W29 | 18 43 | 25 55 | 2 56 | 16 10 | 1 32 | 17 33 | 1 23 | 21 10 | 0 27 | 23 0 | 0 1 | 21 31 | 1 20 | 22 24 | 0 1 | 4 24 | 1 14 | 24 11 | 4 12 | 21 37 | 21 44 | 17 57 | 17 40 | 5 49 |
| T 30 | 18 28 | 25 23 | 1 55 | 15 31 | 1 27 | 17 12 | 1 23 | 21 17 | 0 26 | 22 59 | 0 1 | 21 31 | 1 20 | 22 24 | 0 1 | 4 24 | 1 14 | 24 11 | 4 12 | 21 37 | 21 45 | 17 59 | 17 39 | 5 49 |
| F 31 | 18n13 | 23n32 | 0n47 | 14n52 | 1n22 | 16n50 | 1n24 | 21n24 | 0s26 | 22n58 | 0s 1 | 21s31 | 1n19 | 22n24 | 0s 1 | 4s24 | 1s14 | 24n11 | 4n12 | 21s37 | 21s45 | 18n 1 | 17n39 | 5s49 |

Julian Day Number = 2339597.5, Delta T = 16.83 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'42, Lahiri = 19°34'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## AUGUST 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 41 4 | 9♌14'40 | 26♋58 | 25♌40 | 19♌ 8 | 9♊34 | 11♋47 | 16°R53 | 13♊15 | 21°R44 | 0♌32 | 22°R24 | 21♑28 | 5♉25 | 1♋51 | S 1 |
| S 2 | 20 45 0 | 10°12'11 | 10♌23 | 27°23 | 20°22 | 10°14 | 12° 0 | 16♐51 | 13°18 | 21♓43 | 0°34 | 22♑23 | 21°25 | 5°32 | 1°56 | S 2 |
| M 3 | 20 48 57 | 11° 9'43 | 24° 5 | 29° 5 | 21°36 | 10°54 | 12°12 | 16°49 | 13°20 | 21°42 | 0°36 | 22°22 | 21°22 | 5°39 | 2° 1 | M 3 |
| T 4 | 20 52 53 | 12° 7'15 | 8♍ 2 | 0♍45 | 22°50 | 11°34 | 12°25 | 16°47 | 13°22 | 21°41 | 0°38 | 22°19 | 21°19 | 5°46 | 2° 7 | T 4 |
| W 5 | 20 56 50 | 13° 4'49 | 22°11 | 2°23 | 24° 4 | 12°14 | 12°38 | 16°46 | 13°24 | 21°40 | 0°39 | 22°17 | 21°15 | 5°52 | 2°11 | W 5 |
| T 6 | 21 0 46 | 14° 2'23 | 6♎27 | 4° 0 | 25°18 | 12°53 | 12°50 | 16°45 | 13°26 | 21°39 | 0°41 | 22°14 | 21°12 | 5°59 | 2°16 | T 6 |
| F 7 | 21 4 43 | 14°59'59 | 20°46 | 5°35 | 26°32 | 13°33 | 13° 3 | 16°43 | 13°28 | 21°37 | 0°43 | 22°12 | 21° 9 | 6° 6 | 2°21 | F 7 |
| S 8 | 21 8 40 | 15°57'35 | 5♏ 4 | 7° 9 | 27°46 | 14°12 | 13°15 | 16°42 | 13°31 | 21°36 | 0°44 | 22°10 | 21° 6 | 6°12 | 2°26 | S 8 |
| S 9 | 21 12 36 | 16°55'13 | 19°18 | 8°41 | 29° 0 | 14°51 | 13°28 | 16°41 | 13°33 | 21°35 | 0°46 | 22°D10 | 21° 3 | 6°19 | 2°31 | S 9 |
| M10 | 21 16 33 | 17°52'51 | 3♐25 | 10°11 | 0♍14 | 15°30 | 13°40 | 16°40 | 13°35 | 21°34 | 0°47 | 22°11 | 21° 0 | 6°26 | 2°36 | M10 |
| T 11 | 21 20 29 | 18°50'31 | 17°25 | 11°40 | 1°28 | 16° 9 | 13°52 | 16°39 | 13°36 | 21°32 | 0°49 | 22°12 | 20°56 | 6°33 | 2°40 | T 11 |
| W12 | 21 24 26 | 19°48'11 | 1♑14 | 13° 8 | 2°42 | 16°48 | 14° 4 | 16°38 | 13°38 | 21°31 | 0°51 | 22°13 | 20°53 | 6°39 | 2°45 | W12 |
| T 13 | 21 28 22 | 20°45'53 | 14°54 | 14°34 | 3°56 | 17°27 | 14°17 | 16°37 | 13°40 | 21°30 | 0°52 | 22°14 | 20°50 | 6°46 | 2°50 | T 13 |
| F 14 | 21 32 19 | 21°43'35 | 28°22 | 15°58 | 5°10 | 18° 6 | 14°29 | 16°37 | 13°42 | 21°28 | 0°54 | 22°R14 | 20°47 | 6°53 | 2°54 | F 14 |
| S 15 | 21 36 15 | 22°41'19 | 11♒38 | 17°20 | 6°24 | 18°44 | 14°41 | 16°36 | 13°44 | 21°27 | 0°56 | 22°13 | 20°44 | 6°59 | 2°59 | S 15 |
| S 16 | 21 40 12 | 23°39'04 | 24°40 | 18°41 | 7°38 | 19°23 | 14°53 | 16°36 | 13°45 | 21°25 | 0°57 | 22°10 | 20°40 | 7° 6 | 3° 3 | S 16 |
| M17 | 21 44 9 | 24°36'51 | 7♓28 | 20° 0 | 8°52 | 20° 1 | 15° 5 | 16°35 | 13°47 | 21°24 | 0°59 | 22° 6 | 20°37 | 7°13 | 3° 8 | M17 |
| T 18 | 21 48 5 | 25°34'39 | 20° 3 | 21°18 | 10° 6 | 20°39 | 15°16 | 16°35 | 13°49 | 21°22 | 1° 0 | 22° 0 | 20°34 | 7°20 | 3°12 | T 18 |
| W19 | 21 52 2 | 26°32'28 | 2♈24 | 22°33 | 11°20 | 21°17 | 15°28 | 16°35 | 13°50 | 21°21 | 1° 2 | 21°54 | 20°31 | 7°26 | 3°16 | W19 |
| T 20 | 21 55 58 | 27°30'20 | 14°33 | 23°47 | 12°34 | 21°55 | 15°40 | 16°D35 | 13°52 | 21°20 | 1° 4 | 21°49 | 20°28 | 7°33 | 3°20 | T 20 |
| F 21 | 21 59 55 | 28°28'13 | 26°33 | 24°59 | 13°48 | 22°33 | 15°52 | 16°35 | 13°53 | 21°18 | 1° 5 | 21°44 | 20°25 | 7°40 | 3°25 | F 21 |
| S 22 | 22 3 51 | 29°26'08 | 8♉27 | 26° 8 | 15° 2 | 23°11 | 16° 3 | 16°35 | 13°55 | 21°17 | 1° 7 | 21°40 | 20°21 | 7°46 | 3°29 | S 22 |
| S 23 | 22 7 48 | 0♍24'04 | 20°19 | 27°16 | 16°16 | 23°49 | 16°15 | 16°35 | 13°56 | 21°15 | 1° 8 | 21°38 | 20°18 | 7°53 | 3°33 | S 23 |
| M24 | 22 11 44 | 1°22'03 | 2♊14 | 28°21 | 17°30 | 24°26 | 16°26 | 16°35 | 13°58 | 21°14 | 1°10 | 21°D37 | 20°15 | 8° 0 | 3°37 | M24 |
| T 25 | 22 15 41 | 2°20'03 | 14°15 | 29°24 | 18°44 | 25° 4 | 16°37 | 16°36 | 13°59 | 21°12 | 1°11 | 21°38 | 20°12 | 8° 7 | 3°41 | T 25 |
| W26 | 22 19 38 | 3°18'05 | 26°30 | 0♎25 | 19°58 | 25°41 | 16°49 | 16°36 | 14° 0 | 21°10 | 1°13 | 21°39 | 20° 9 | 8°13 | 3°45 | W26 |
| T 27 | 22 23 34 | 4°16'10 | 9♋ 0 | 1°23 | 21°12 | 26°18 | 17° 0 | 16°37 | 14° 1 | 21° 9 | 1°14 | 21°41 | 20° 6 | 8°20 | 3°48 | T 27 |
| F 28 | 22 27 31 | 5°14'16 | 21°52 | 2°18 | 22°26 | 26°55 | 17°11 | 16°37 | 14° 2 | 21° 7 | 1°16 | 21°R41 | 20° 2 | 8°27 | 3°52 | F 28 |
| S 29 | 22 31 27 | 6°12'24 | 5♌ 8 | 3°11 | 23°40 | 27°32 | 17°22 | 16°38 | 14° 4 | 21° 6 | 1°17 | 21°40 | 19°59 | 8°34 | 3°56 | S 29 |
| S 30 | 22 35 24 | 7°10'34 | 18°48 | 4° 0 | 24°54 | 28° 9 | 17°33 | 16°39 | 14° 5 | 21° 4 | 1°19 | 21°37 | 19°56 | 8°40 | 4° 0 | S 30 |
| M31 | 22 39 20 | 8♍ 8'45 | 2♍52 | 4♎46 | 26♍ 8 | 28♊45 | 17♋44 | 16♐40 | 14♊ 6 | 21♓ 3 | 1♌20 | 21♑33 | 19♑53 | 8♉47 | 4♋ 3 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 17n58 | 20n23 | 0s25 | 14n12 | 1n17 | 16n27 | 1n25 | 21n31 | 0s25 | 22n57 | 0s 1 | 21s31 | 1n19 | 22n24 | 0s 1 | 4s25 | 1s14 | 24n10 | 4n12 | 21s37 | 21s46 | 18n 3 | 17n38 | 5s50 | S 1 |
| S 2 | 17 43 | 16 6 | 1 38 | 13 31 | 1 11 | 16 4 | 1 25 | 21 38 | 0 24 | 22 56 | 0 1 | 21 31 | 1 19 | 22 25 | 0 1 | 4 25 | 1 14 | 24 10 | 4 12 | 21 37 | 21 46 | 18 5 | 17 38 | 5 50 | S 2 |
| M 3 | 17 27 | 10 55 | 2 46 | 12 50 | 1 5 | 15 41 | 1 26 | 21 44 | 0 23 | 22 54 | 0 1 | 21 31 | 1 19 | 22 25 | 0 1 | 4 26 | 1 14 | 24 10 | 4 12 | 21 37 | 21 47 | 18 7 | 17 38 | 5 50 | M 3 |
| T 4 | 17 11 | 5 5 | 3 45 | 12 9 | 0 59 | 15 17 | 1 26 | 21 51 | 0 22 | 22 53 | 0 1 | 21 31 | 1 19 | 22 25 | 0 1 | 4 26 | 1 14 | 24 9 | 4 12 | 21 38 | 21 47 | 18 9 | 17 37 | 5 51 | T 4 |
| W 5 | 16 55 | 1s 4 | 4 32 | 11 28 | 0 52 | 14 53 | 1 26 | 21 57 | 0 21 | 22 52 | 0 0 | 21 31 | 1 19 | 22 26 | 0 1 | 4 27 | 1 14 | 24 9 | 4 13 | 21 38 | 21 48 | 18 12 | 17 37 | 5 51 | W 5 |
| T 6 | 16 39 | 7 11 | 5 2 | 10 46 | 0 46 | 14 28 | 1 27 | 22 3 | 0 20 | 22 51 | 0 0 | 21 31 | 1 18 | 22 26 | 0 1 | 4 27 | 1 14 | 24 9 | 4 13 | 21 39 | 21 48 | 18 14 | 17 36 | 5 52 | T 6 |
| F 7 | 16 22 | 12 58 | 5 14 | 10 4 | 0 38 | 14 3 | 1 27 | 22 8 | 0 20 | 22 50 | 0 0 | 21 31 | 1 18 | 22 26 | 0 1 | 4 28 | 1 14 | 24 9 | 4 13 | 21 39 | 21 49 | 18 16 | 17 36 | 5 52 | F 7 |
| S 8 | 16 5 | 18 2 | 5 6 | 9 23 | 0 31 | 13 38 | 1 27 | 22 14 | 0 19 | 22 49 | 0 0 | 21 31 | 1 18 | 22 26 | 0 1 | 4 28 | 1 14 | 24 8 | 4 13 | 21 39 | 21 49 | 18 18 | 17 35 | 5 52 | S 8 |
| S 9 | 15 47 | 22 4 | 4 40 | 8 41 | 0 23 | 13 12 | 1 27 | 22 19 | 0 18 | 22 48 | 0 0 | 21 31 | 1 18 | 22 27 | 0 1 | 4 29 | 1 14 | 24 8 | 4 13 | 21 39 | 21 50 | 18 20 | 17 35 | 5 53 | S 9 |
| M10 | 15 30 | 24 44 | 3 56 | 7 59 | 0 15 | 12 46 | 1 27 | 22 25 | 0 17 | 22 47 | 0n 0 | 21 31 | 1 18 | 22 27 | 0 1 | 4 30 | 1 14 | 24 8 | 4 13 | 21 39 | 21 50 | 18 22 | 17 34 | 5 53 | M10 |
| T 11 | 15 12 | 25 52 | 2 59 | 7 18 | 0 7 | 12 20 | 1 27 | 22 30 | 0 16 | 22 46 | 0 0 | 21 32 | 1 17 | 22 27 | 0 1 | 4 30 | 1 14 | 24 7 | 4 13 | 21 39 | 21 51 | 18 24 | 17 34 | 5 54 | T 11 |
| W12 | 14 54 | 25 21 | 1 53 | 6 37 | 0s 2 | 11 53 | 1 27 | 22 35 | 0 15 | 22 44 | 0 0 | 21 32 | 1 17 | 22 27 | 0 1 | 4 31 | 1 14 | 24 7 | 4 13 | 21 39 | 21 51 | 18 26 | 17 33 | 5 54 | W12 |
| T 13 | 14 36 | 23 19 | 0 40 | 5 56 | 0 10 | 11 26 | 1 27 | 22 39 | 0 14 | 22 43 | 0 0 | 21 32 | 1 17 | 22 28 | 0 1 | 4 31 | 1 14 | 24 7 | 4 13 | 21 38 | 21 52 | 18 28 | 17 33 | 5 54 | T 13 |
| F 14 | 14 17 | 19 59 | 0n33 | 5 15 | 0 19 | 10 59 | 1 27 | 22 44 | 0 13 | 22 42 | 0 0 | 21 32 | 1 17 | 22 28 | 0 1 | 4 32 | 1 15 | 24 7 | 4 13 | 21 38 | 21 52 | 18 30 | 17 32 | 5 55 | F 14 |
| S 15 | 13 59 | 15 40 | 1 44 | 4 35 | 0 28 | 10 31 | 1 26 | 22 48 | 0 12 | 22 41 | 0 1 | 21 32 | 1 17 | 22 28 | 0 1 | 4 32 | 1 15 | 24 6 | 4 14 | 21 39 | 21 53 | 18 32 | 17 32 | 5 55 | S 15 |
| S 16 | 13 40 | 10 41 | 2 48 | 3 55 | 0 37 | 10 3 | 1 26 | 22 52 | 0 11 | 22 40 | 0 1 | 21 32 | 1 16 | 22 28 | 0 1 | 4 33 | 1 15 | 24 6 | 4 14 | 21 39 | 21 53 | 18 34 | 17 31 | 5 56 | S 16 |
| M17 | 13 20 | 5 21 | 3 42 | 3 16 | 0 46 | 9 35 | 1 25 | 22 56 | 0 10 | 22 38 | 0 1 | 21 32 | 1 16 | 22 28 | 0 1 | 4 34 | 1 15 | 24 6 | 4 14 | 21 40 | 21 54 | 18 36 | 17 31 | 5 56 | M17 |
| T 18 | 13 1 | 0n 6 | 4 24 | 2 37 | 0 55 | 9 6 | 1 25 | 23 0 | 0 9 | 22 37 | 0 1 | 21 32 | 1 16 | 22 29 | 0 1 | 4 34 | 1 15 | 24 6 | 4 14 | 21 41 | 21 54 | 18 38 | 17 30 | 5 57 | T 18 |
| W19 | 12 41 | 5 26 | 4 53 | 1 58 | 1 5 | 8 38 | 1 24 | 23 3 | 0 8 | 22 36 | 0 1 | 21 33 | 1 16 | 22 29 | 0 1 | 4 35 | 1 15 | 24 5 | 4 14 | 21 42 | 21 55 | 18 40 | 17 29 | 5 57 | W19 |
| T 20 | 12 22 | 10 28 | 5 8 | 1 20 | 1 14 | 8 9 | 1 24 | 23 7 | 0 7 | 22 35 | 0 1 | 21 33 | 1 16 | 22 29 | 0 1 | 4 35 | 1 15 | 24 5 | 4 14 | 21 43 | 21 55 | 18 42 | 17 29 | 5 58 | T 20 |
| F 21 | 12 2 | 15 4 | 5 9 | 0 43 | 1 24 | 7 39 | 1 23 | 23 10 | 0 6 | 22 33 | 0 1 | 21 33 | 1 15 | 22 29 | 0 1 | 4 36 | 1 15 | 24 5 | 4 14 | 21 43 | 21 56 | 18 44 | 17 28 | 5 58 | F 21 |
| S 22 | 11 41 | 19 2 | 4 57 | 0 7 | 1 33 | 7 10 | 1 22 | 23 13 | 0 5 | 22 32 | 0 1 | 21 33 | 1 15 | 22 29 | 0 1 | 4 37 | 1 15 | 24 5 | 4 14 | 21 44 | 21 56 | 18 46 | 17 28 | 5 59 | S 22 |
| S 23 | 11 21 | 22 14 | 4 33 | 0s29 | 1 43 | 6 40 | 1 21 | 23 16 | 0 4 | 22 31 | 0 1 | 21 33 | 1 15 | 22 30 | 0 1 | 4 37 | 1 15 | 24 5 | 4 14 | 21 44 | 21 57 | 18 48 | 17 27 | 5 59 | S 23 |
| M24 | 11 0 | 24 30 | 3 56 | 1 3 | 1 52 | 6 11 | 1 20 | 23 18 | 0 3 | 22 30 | 0 2 | 21 34 | 1 15 | 22 30 | 0 1 | 4 38 | 1 15 | 24 4 | 4 15 | 21 44 | 21 57 | 18 50 | 17 26 | 5 59 | M24 |
| T 25 | 10 40 | 25 41 | 3 9 | 1 37 | 2 1 | 5 41 | 1 19 | 23 21 | 0 2 | 22 28 | 0 2 | 21 34 | 1 15 | 22 30 | 0 1 | 4 38 | 1 15 | 24 4 | 4 15 | 21 44 | 21 57 | 18 52 | 17 26 | 6 0 | T 25 |
| W26 | 10 19 | 25 38 | 2 12 | 2 10 | 2 11 | 5 11 | 1 18 | 23 23 | 0 1 | 22 27 | 0 2 | 21 34 | 1 15 | 22 30 | 0 1 | 4 39 | 1 15 | 24 4 | 4 15 | 21 44 | 21 58 | 18 54 | 17 25 | 6 0 | W26 |
| T 27 | 9 58 | 24 18 | 1 8 | 2 42 | 2 20 | 4 41 | 1 17 | 23 25 | 0 0 | 22 26 | 0 2 | 21 34 | 1 14 | 22 30 | 0 1 | 4 40 | 1 15 | 24 4 | 4 15 | 21 44 | 21 58 | 18 56 | 17 25 | 6 1 | T 27 |
| F 28 | 9 36 | 21 41 | 0s 1 | 3 12 | 2 29 | 4 10 | 1 16 | 23 27 | 0n 1 | 22 24 | 0 2 | 21 35 | 1 14 | 22 30 | 0 1 | 4 40 | 1 15 | 24 3 | 4 15 | 21 44 | 21 59 | 18 58 | 17 24 | 6 2 | F 28 |
| S 29 | 9 15 | 17 51 | 1 12 | 3 41 | 2 39 | 3 40 | 1 15 | 23 29 | 0 2 | 22 23 | 0 2 | 21 35 | 1 14 | 22 31 | 0 1 | 4 41 | 1 15 | 24 3 | 4 15 | 21 44 | 21 59 | 19 0 | 17 23 | 6 2 | S 29 |
| S 30 | 8 53 | 12 59 | 2 21 | 4 9 | 2 48 | 3 9 | 1 13 | 23 31 | 0 3 | 22 22 | 0 2 | 21 35 | 1 14 | 22 31 | 0 1 | 4 42 | 1 15 | 24 3 | 4 15 | 21 44 | 22 0 | 19 2 | 17 23 | 6 3 | S 30 |
| M31 | 8n32 | 7n19 | 3s23 | 4s36 | 2s56 | 2n38 | 1n12 | 23n32 | 0n 4 | 22n20 | 0n 2 | 21s35 | 1n14 | 22n31 | 0s 1 | 4s42 | 1s15 | 24n 3 | 4n16 | 21s45 | 22s 0 | 19n 3 | 17n22 | 6s 3 | M31 |

Julian Day Number = 2339628.5, Delta T = 16.79 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'47, Lahiri = 19°34'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## SEPTEMBER 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 43 17 | 9♍ 6'59 | 17♍15 | 5♎29 | 27♍22 | 29♊22 | 17♋54 | 16♐41 | 14♊ 7 | 21°R 1 | 1♘21 | 21°R26 | 19♑50 | 8♉54 | 4♋ 7 | T 1 |
| W 2 | 22 47 13 | 10° 5'14 | 1♎51 | 6° 7 | 28°36 | 29°58 | 18° 5 | 16°42 | 14° 7 | 20♓59 | 1°23 | 21♑19 | 19°46 | 9° 0 | 4°10 | W 2 |
| T 3 | 22 51 10 | 11° 3'30 | 16°35 | 6°42 | 29°50 | 0♋34 | 18°16 | 16°43 | 14° 8 | 20°58 | 1°24 | 21°11 | 19°43 | 9° 7 | 4°14 | T 3 |
| F 4 | 22 55 6 | 12° 1'49 | 1♏16 | 7°12 | 1♎ 4 | 1°11 | 18°26 | 16°45 | 14° 9 | 20°56 | 1°26 | 21° 4 | 19°40 | 9°14 | 4°17 | F 4 |
| S 5 | 22 59 3 | 13° 0'09 | 15°50 | 7°38 | 2°18 | 1°46 | 18°36 | 16°46 | 14°10 | 20°54 | 1°27 | 21° 0 | 19°37 | 9°21 | 4°20 | S 5 |
| S 6 | 23 3 0 | 13°58'30 | 0♐11 | 7°59 | 3°32 | 2°22 | 18°47 | 16°48 | 14°11 | 20°53 | 1°28 | 20°57 | 19°34 | 9°27 | 4°23 | S 6 |
| M 7 | 23 6 56 | 14°56'53 | 14°17 | 8°15 | 4°46 | 2°58 | 18°57 | 16°49 | 14°11 | 20°51 | 1°30 | 20°D56 | 19°31 | 9°34 | 4°26 | M 7 |
| T 8 | 23 10 53 | 15°55'18 | 28° 6 | 8°24 | 6° 0 | 3°33 | 19° 7 | 16°51 | 14°12 | 20°49 | 1°31 | 20°56 | 19°27 | 9°41 | 4°29 | T 8 |
| W 9 | 23 14 49 | 16°53'44 | 11♑40 | 8°R28 | 7°14 | 4° 9 | 19°17 | 16°53 | 14°12 | 20°48 | 1°32 | 20°57 | 19°24 | 9°47 | 4°32 | W 9 |
| T 10 | 23 18 46 | 17°52'12 | 24°59 | 8°26 | 8°28 | 4°44 | 19°27 | 16°55 | 14°13 | 20°46 | 1°33 | 20°R57 | 19°21 | 9°54 | 4°35 | T 10 |
| F 11 | 23 22 42 | 18°50'42 | 8♒ 4 | 8°17 | 9°42 | 5°19 | 19°36 | 16°57 | 14°13 | 20°44 | 1°35 | 20°56 | 19°18 | 10° 1 | 4°38 | F 11 |
| S 12 | 23 26 39 | 19°49'13 | 20°58 | 8° 2 | 10°56 | 5°54 | 19°46 | 16°59 | 14°14 | 20°43 | 1°36 | 20°52 | 19°15 | 10° 8 | 4°41 | S 12 |
| S 13 | 23 30 36 | 20°47'46 | 3♓41 | 7°39 | 12°10 | 6°28 | 19°56 | 17° 1 | 14°14 | 20°41 | 1°37 | 20°46 | 19°12 | 10°14 | 4°44 | S 13 |
| M14 | 23 34 32 | 21°46'20 | 16°13 | 7°10 | 13°24 | 7° 3 | 20° 5 | 17° 4 | 14°14 | 20°40 | 1°38 | 20°37 | 19° 8 | 10°21 | 4°46 | M14 |
| T 15 | 23 38 29 | 22°44'57 | 28°35 | 6°33 | 14°38 | 7°37 | 20°14 | 17° 6 | 14°15 | 20°38 | 1°39 | 20°26 | 19° 5 | 10°28 | 4°49 | T 15 |
| W16 | 23 42 25 | 23°43'36 | 10♈47 | 5°50 | 15°52 | 8°11 | 20°24 | 17° 9 | 14°15 | 20°36 | 1°41 | 20°15 | 19° 2 | 10°34 | 4°51 | W16 |
| T 17 | 23 46 22 | 24°42'16 | 22°51 | 5° 1 | 17° 6 | 8°46 | 20°33 | 17°11 | 14°15 | 20°35 | 1°42 | 20° 3 | 18°59 | 10°41 | 4°53 | T 17 |
| F 18 | 23 50 18 | 25°40'59 | 4♉47 | 4° 5 | 18°20 | 9°19 | 20°42 | 17°14 | 14°15 | 20°33 | 1°43 | 19°52 | 18°56 | 10°48 | 4°56 | F 18 |
| S 19 | 23 54 15 | 26°39'44 | 16°39 | 3° 5 | 19°34 | 9°53 | 20°51 | 17°17 | 14°R15 | 20°31 | 1°44 | 19°43 | 18°52 | 10°54 | 4°58 | S 19 |
| S 20 | 23 58 11 | 27°38'31 | 28°29 | 2° 2 | 20°47 | 10°27 | 20°59 | 17°19 | 14°15 | 20°30 | 1°45 | 19°37 | 18°49 | 11° 1 | 5° 0 | S 20 |
| M21 | 0 2 8 | 28°37'21 | 10♊21 | 0°56 | 22° 1 | 11° 0 | 21° 8 | 17°22 | 14°15 | 20°28 | 1°46 | 19°33 | 18°46 | 11° 8 | 5° 2 | M21 |
| T 22 | 0 6 4 | 29°36'13 | 22°20 | 29♍49 | 23°15 | 11°33 | 21°16 | 17°25 | 14°15 | 20°26 | 1°47 | 19°31 | 18°43 | 11°15 | 5° 4 | T 22 |
| W23 | 0 10 1 | 0♎35'07 | 4♋31 | 28°43 | 24°29 | 12° 6 | 21°25 | 17°28 | 14°15 | 20°25 | 1°48 | 19°D31 | 18°40 | 11°21 | 5° 6 | W23 |
| T 24 | 0 13 58 | 1°34'03 | 16°59 | 27°40 | 25°43 | 12°39 | 21°33 | 17°32 | 14°14 | 20°23 | 1°49 | 19°R31 | 18°37 | 11°28 | 5° 8 | T 24 |
| F 25 | 0 17 54 | 2°33'02 | 29°49 | 26°40 | 26°57 | 13°12 | 21°41 | 17°35 | 14°14 | 20°21 | 1°50 | 19°31 | 18°33 | 11°35 | 5°10 | F 25 |
| S 26 | 0 21 51 | 3°32'03 | 13♌ 5 | 25°47 | 28°11 | 13°44 | 21°49 | 17°38 | 14°14 | 20°20 | 1°51 | 19°29 | 18°30 | 11°41 | 5°11 | S 26 |
| S 27 | 0 25 47 | 4°31'06 | 26°49 | 25° 2 | 29°25 | 14°16 | 21°57 | 17°42 | 14°13 | 20°18 | 1°52 | 19°24 | 18°27 | 11°48 | 5°13 | S 27 |
| M28 | 0 29 44 | 5°30'11 | 11♍ 3 | 24°25 | 0♏38 | 14°48 | 22° 5 | 17°45 | 14°13 | 20°17 | 1°53 | 19°17 | 18°24 | 11°55 | 5°14 | M28 |
| T 29 | 0 33 40 | 6°29'19 | 25°41 | 23°57 | 1°52 | 15°20 | 22°12 | 17°49 | 14°12 | 20°15 | 1°54 | 19° 8 | 18°21 | 12° 2 | 5°16 | T 29 |
| W30 | 0 37 37 | 7♎28'28 | 10♎38 | 23♍40 | 3♏ 6 | 15♋52 | 22♋20 | 17♐53 | 14♊12 | 20♓13 | 1♘55 | 18♑57 | 18♑17 | 12♉ 8 | 5♋17 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n10 | 1n 9 | 4s14 | 5s 0 | 3s 5 | 2n 8 | 1n11 | 23n34 | 0n 5 | 22n19 | 0n 2 | 21s36 | 1n13 | 22n31 | 0s 1 | 4s43 | 1s15 | 24n 3 | 4n16 | 21s46 | 22s 1 | 19n 5 | 17n22 | 6s 4 |
| W 2 | 7 48 | 5s10 | 4 49 | 5 23 | 3 13 | 1 37 | 1 9 | 23 35 | 0 6 | 22 18 | 0 2 | 21 36 | 1 13 | 22 31 | 0 1 | 4 44 | 1 15 | 24 2 | 4 16 | 21 47 | 22 1 | 19 7 | 17 21 | 6 4 |
| T 3 | 7 26 | 11 13 | 5 6 | 5 44 | 3 21 | 1 6 | 1 8 | 23 36 | 0 7 | 22 17 | 0 3 | 21 36 | 1 13 | 22 31 | 0 1 | 4 44 | 1 15 | 24 2 | 4 16 | 21 49 | 22 2 | 19 9 | 17 20 | 6 5 |
| F 4 | 7 4 | 16 39 | 5 2 | 6 3 | 3 28 | 0 35 | 1 6 | 23 37 | 0 8 | 22 15 | 0 3 | 21 37 | 1 13 | 22 31 | 0 1 | 4 45 | 1 15 | 24 2 | 4 16 | 21 50 | 22 2 | 19 11 | 17 20 | 6 5 |
| S 5 | 6 41 | 21 3 | 4 38 | 6 20 | 3 35 | 0 4 | 1 4 | 23 38 | 0 9 | 22 14 | 0 3 | 21 37 | 1 13 | 22 31 | 0 1 | 4 46 | 1 15 | 24 2 | 4 16 | 21 50 | 22 3 | 19 13 | 17 19 | 6 6 |
| S 6 | 6 19 | 24 6 | 3 58 | 6 34 | 3 42 | 0s27 | 1 3 | 23 38 | 0 11 | 22 13 | 0 3 | 21 37 | 1 12 | 22 31 | 0 1 | 4 46 | 1 15 | 24 2 | 4 16 | 21 51 | 22 3 | 19 15 | 17 18 | 6 6 |
| M 7 | 5 56 | 25 35 | 3 4 | 6 45 | 3 47 | 0 58 | 1 1 | 23 38 | 0 12 | 22 11 | 0 3 | 21 38 | 1 12 | 22 32 | 0 1 | 4 47 | 1 15 | 24 2 | 4 16 | 21 51 | 22 4 | 19 17 | 17 18 | 6 7 |
| T 8 | 5 34 | 25 27 | 1 59 | 6 54 | 3 52 | 1 29 | 0 59 | 23 39 | 0 13 | 22 10 | 0 3 | 21 38 | 1 12 | 22 32 | 0 1 | 4 48 | 1 15 | 24 1 | 4 17 | 21 51 | 22 4 | 19 19 | 17 17 | 6 7 |
| W 9 | 5 11 | 23 47 | 0 50 | 6 59 | 3 56 | 2 0 | 0 57 | 23 39 | 0 14 | 22 9 | 0 3 | 21 38 | 1 12 | 22 32 | 0 1 | 4 48 | 1 15 | 24 1 | 4 17 | 21 51 | 22 4 | 19 21 | 17 16 | 6 8 |
| T 10 | 4 48 | 20 49 | 0n22 | 7 1 | 4 0 | 2 31 | 0 55 | 23 39 | 0 15 | 22 7 | 0 3 | 21 39 | 1 12 | 22 32 | 0 1 | 4 49 | 1 15 | 24 1 | 4 17 | 21 51 | 22 5 | 19 22 | 17 16 | 6 9 |
| F 11 | 4 25 | 16 50 | 1 30 | 7 0 | 4 2 | 3 2 | 0 53 | 23 39 | 0 16 | 22 6 | 0 3 | 21 39 | 1 11 | 22 32 | 0 1 | 4 50 | 1 15 | 24 1 | 4 17 | 21 51 | 22 5 | 19 24 | 17 15 | 6 9 |
| S 12 | 4 2 | 12 7 | 2 33 | 6 54 | 4 3 | 3 33 | 0 51 | 23 38 | 0 17 | 22 5 | 0 4 | 21 40 | 1 11 | 22 32 | 0 1 | 4 50 | 1 15 | 24 1 | 4 17 | 21 51 | 22 6 | 19 26 | 17 14 | 6 10 |
| S 13 | 3 39 | 6 57 | 3 27 | 6 45 | 4 2 | 4 4 | 0 49 | 23 38 | 0 19 | 22 4 | 0 4 | 21 40 | 1 11 | 22 32 | 0 1 | 4 51 | 1 15 | 24 1 | 4 17 | 21 52 | 22 6 | 19 28 | 17 14 | 6 10 |
| M14 | 3 16 | 1 36 | 4 10 | 6 32 | 4 1 | 4 35 | 0 47 | 23 37 | 0 20 | 22 2 | 0 4 | 21 40 | 1 11 | 22 32 | 0 1 | 4 52 | 1 15 | 24 1 | 4 18 | 21 54 | 22 7 | 19 30 | 17 13 | 6 11 |
| T 15 | 2 53 | 3n44 | 4 41 | 6 14 | 3 57 | 5 5 | 0 45 | 23 37 | 0 21 | 22 1 | 0 4 | 21 41 | 1 11 | 22 32 | 0 1 | 4 52 | 1 15 | 24 1 | 4 18 | 21 55 | 22 7 | 19 32 | 17 12 | 6 12 |
| W16 | 2 30 | 8 51 | 4 58 | 5 52 | 3 52 | 5 36 | 0 43 | 23 36 | 0 22 | 22 0 | 0 4 | 21 41 | 1 11 | 22 32 | 0 1 | 4 53 | 1 15 | 24 0 | 4 18 | 21 57 | 22 8 | 19 34 | 17 12 | 6 12 |
| T 17 | 2 6 | 13 34 | 5 2 | 5 26 | 3 45 | 6 6 | 0 40 | 23 35 | 0 24 | 21 58 | 0 4 | 21 42 | 1 10 | 22 32 | 0 1 | 4 53 | 1 15 | 24 0 | 4 18 | 21 59 | 22 8 | 19 35 | 17 11 | 6 13 |
| F 18 | 1 43 | 17 43 | 4 52 | 4 56 | 3 36 | 6 37 | 0 38 | 23 34 | 0 25 | 21 57 | 0 4 | 21 42 | 1 10 | 22 32 | 0 1 | 4 54 | 1 15 | 24 0 | 4 18 | 22 0 | 22 8 | 19 37 | 17 10 | 6 13 |
| S 19 | 1 20 | 21 9 | 4 30 | 4 22 | 3 25 | 7 7 | 0 36 | 23 33 | 0 26 | 21 56 | 0 4 | 21 43 | 1 10 | 22 32 | 0 1 | 4 55 | 1 15 | 24 0 | 4 18 | 22 2 | 22 9 | 19 39 | 17 10 | 6 14 |
| S 20 | 0 56 | 23 42 | 3 56 | 3 44 | 3 12 | 7 37 | 0 33 | 23 31 | 0 27 | 21 55 | 0 5 | 21 43 | 1 10 | 22 32 | 0 1 | 4 55 | 1 15 | 24 0 | 4 19 | 22 3 | 22 9 | 19 41 | 17 9 | 6 15 |
| M21 | 0 33 | 25 12 | 3 12 | 3 5 | 2 57 | 8 7 | 0 31 | 23 30 | 0 29 | 21 54 | 0 5 | 21 43 | 1 10 | 22 32 | 0 1 | 4 56 | 1 15 | 24 0 | 4 19 | 22 3 | 22 10 | 19 43 | 17 8 | 6 15 |
| T 22 | 0 9 | 25 34 | 2 19 | 2 23 | 2 41 | 8 37 | 0 28 | 23 28 | 0 30 | 21 52 | 0 5 | 21 44 | 1 9 | 22 32 | 0 1 | 4 57 | 1 15 | 24 0 | 4 19 | 22 3 | 22 10 | 19 45 | 17 7 | 6 16 |
| W23 | 0s14 | 24 43 | 1 19 | 1 40 | 2 23 | 9 6 | 0 26 | 23 27 | 0 31 | 21 51 | 0 5 | 21 44 | 1 9 | 22 32 | 0 1 | 4 57 | 1 15 | 24 0 | 4 19 | 22 3 | 22 11 | 19 46 | 17 7 | 6 16 |
| T 24 | 0 37 | 22 37 | 0 13 | 0 58 | 2 4 | 9 36 | 0 23 | 23 25 | 0 32 | 21 50 | 0 5 | 21 45 | 1 9 | 22 32 | 0 1 | 4 58 | 1 15 | 24 0 | 4 19 | 22 3 | 22 11 | 19 48 | 17 6 | 6 17 |
| F 25 | 1 1 | 19 20 | 0s54 | 0 16 | 1 44 | 10 5 | 0 21 | 23 23 | 0 34 | 21 49 | 0 5 | 21 45 | 1 9 | 22 32 | 0 1 | 4 59 | 1 15 | 24 0 | 4 19 | 22 3 | 22 12 | 19 50 | 17 5 | 6 18 |
| S 26 | 1 24 | 14 59 | 2 1 | 0n23 | 1 24 | 10 34 | 0 18 | 23 21 | 0 35 | 21 48 | 0 5 | 21 46 | 1 9 | 22 32 | 0 1 | 4 59 | 1 15 | 24 0 | 4 19 | 22 4 | 22 12 | 19 52 | 17 5 | 6 18 |
| S 27 | 1 48 | 9 43 | 3 4 | 1 0 | 1 4 | 11 2 | 0 15 | 23 19 | 0 36 | 21 47 | 0 5 | 21 46 | 1 9 | 22 32 | 0 1 | 5 0 | 1 15 | 24 0 | 4 20 | 22 4 | 22 12 | 19 54 | 17 4 | 6 19 |
| M28 | 2 11 | 3 47 | 3 57 | 1 33 | 0 44 | 11 31 | 0 13 | 23 17 | 0 38 | 21 45 | 0 6 | 21 47 | 1 8 | 22 32 | 0 1 | 5 1 | 1 15 | 24 0 | 4 20 | 22 5 | 22 13 | 19 55 | 17 3 | 6 20 |
| T 29 | 2 35 | 2s30 | 4 36 | 2 2 | 0 24 | 11 59 | 0 10 | 23 15 | 0 39 | 21 44 | 0 6 | 21 47 | 1 8 | 22 32 | 0 1 | 5 1 | 1 15 | 24 0 | 4 20 | 22 7 | 22 13 | 19 57 | 17 3 | 6 20 |
| W30 | 2s58 | 8s46 | 4s57 | 2n27 | 0s 5 | 12s27 | 0n 7 | 23n12 | 0n40 | 21n43 | 0n 6 | 21s48 | 1n 8 | 22n32 | 0s 1 | 5s 2 | 1s15 | 23n59 | 4n20 | 22s 8 | 22s14 | 19n59 | 17n 2 | 6s21 |

Julian Day Number = 2339659.5, Delta T = 16.76 sec
Ecliptic obliquity = 23°28'49, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'51, Lahiri = 19°34'51Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## OCTOBER 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 41 33 | 8♎27'40 | 25♎45 | 23°D33 | 4♏20 | 16♋23 | 22♋27 | 17♐56 | 14°R11 | 20°R12 | 1♌56 | 18°R46 | 18♉14 | 12♉15 | 5♋18 | T 1 |
| F 2 | 0 45 30 | 9°26'54 | 10♏51 | 23♍37 | 5°34 | 16°54 | 22°34 | 18° 0 | 14♊11 | 20♓10 | 1°56 | 18♉36 | 18°11 | 12°22 | 5°19 | F 2 |
| S 3 | 0 49 27 | 10°26'09 | 25°46 | 23°51 | 6°47 | 17°25 | 22°41 | 18° 4 | 14°10 | 20° 9 | 1°57 | 18°28 | 18° 8 | 12°28 | 5°20 | S 3 |
| S 4 | 0 53 23 | 11°25'27 | 10♐23 | 24°16 | 8° 1 | 17°56 | 22°48 | 18° 8 | 14° 9 | 20° 7 | 1°58 | 18°22 | 18° 5 | 12°35 | 5°21 | S 4 |
| M 5 | 0 57 20 | 12°24'46 | 24°38 | 24°50 | 9°15 | 18°26 | 22°55 | 18°12 | 14° 8 | 20° 6 | 1°59 | 18°20 | 18° 2 | 12°42 | 5°22 | M 5 |
| T 6 | 1 1 16 | 13°24'08 | 8♑29 | 25°33 | 10°29 | 18°56 | 23° 1 | 18°16 | 14° 8 | 20° 4 | 1°59 | 18°19 | 17°58 | 12°49 | 5°23 | T 6 |
| W 7 | 1 5 13 | 14°23'30 | 21°58 | 26°24 | 11°42 | 19°26 | 23° 8 | 18°21 | 14° 7 | 20° 3 | 2° 0 | 18°19 | 17°55 | 12°55 | 5°24 | W 7 |
| T 8 | 1 9 9 | 15°22'55 | 5♒ 7 | 27°23 | 12°56 | 19°56 | 23°14 | 18°25 | 14° 6 | 20° 1 | 2° 1 | 18°18 | 17°52 | 13° 2 | 5°24 | T 8 |
| F 9 | 1 13 6 | 16°22'21 | 17°58 | 28°29 | 14°10 | 20°26 | 23°20 | 18°29 | 14° 5 | 20° 0 | 2° 1 | 18°16 | 17°49 | 13° 9 | 5°25 | F 9 |
| S 10 | 1 17 2 | 17°21'49 | 0♓36 | 29°41 | 15°24 | 20°55 | 23°26 | 18°34 | 14° 4 | 19°58 | 2° 2 | 18°11 | 17°46 | 13°15 | 5°25 | S 10 |
| S 11 | 1 20 59 | 18°21'19 | 13° 3 | 0♎58 | 16°37 | 21°24 | 23°32 | 18°38 | 14° 3 | 19°57 | 2° 3 | 18° 3 | 17°43 | 13°22 | 5°26 | S 11 |
| M12 | 1 24 56 | 19°20'51 | 25°20 | 2°19 | 17°51 | 21°53 | 23°37 | 18°43 | 14° 1 | 19°56 | 2° 3 | 17°52 | 17°39 | 13°29 | 5°26 | M12 |
| T 13 | 1 28 52 | 20°20'24 | 7♈30 | 3°45 | 19° 5 | 22°21 | 23°43 | 18°48 | 14° 0 | 19°54 | 2° 4 | 17°39 | 17°36 | 13°36 | 5°26 | T 13 |
| W14 | 1 32 49 | 21°20'00 | 19°33 | 5°13 | 20°18 | 22°49 | 23°48 | 18°53 | 13°59 | 19°53 | 2° 4 | 17°25 | 17°33 | 13°42 | 5°26 | W14 |
| T 15 | 1 36 45 | 22°19'38 | 1♉30 | 6°45 | 21°32 | 23°17 | 23°53 | 18°57 | 13°58 | 19°52 | 2° 5 | 17°10 | 17°30 | 13°49 | 5°R26 | T 15 |
| F 16 | 1 40 42 | 23°19'18 | 13°23 | 8°18 | 22°45 | 23°45 | 23°58 | 19° 2 | 13°56 | 19°50 | 2° 5 | 16°57 | 17°27 | 13°56 | 5°26 | F 16 |
| S 17 | 1 44 38 | 24°18'59 | 25°14 | 9°53 | 23°59 | 24°12 | 24° 3 | 19° 7 | 13°55 | 19°49 | 2° 6 | 16°46 | 17°23 | 14° 2 | 5°26 | S 17 |
| S 18 | 1 48 35 | 25°18'43 | 7♊ 4 | 11°30 | 25°13 | 24°39 | 24° 8 | 19°12 | 13°54 | 19°48 | 2° 6 | 16°37 | 17°20 | 14° 9 | 5°26 | S 18 |
| M19 | 1 52 31 | 26°18'30 | 18°56 | 13° 8 | 26°26 | 25° 6 | 24°12 | 19°17 | 13°52 | 19°46 | 2° 6 | 16°31 | 17°17 | 14°16 | 5°26 | M19 |
| T 20 | 1 56 28 | 27°18'18 | 0♋54 | 14°47 | 27°40 | 25°33 | 24°16 | 19°22 | 13°51 | 19°45 | 2° 7 | 16°29 | 17°14 | 14°23 | 5°25 | T 20 |
| W21 | 2 0 25 | 28°18'09 | 13° 3 | 16°26 | 28°53 | 25°59 | 24°20 | 19°28 | 13°49 | 19°44 | 2° 7 | 16°D28 | 17°11 | 14°29 | 5°25 | W21 |
| T 22 | 2 4 21 | 29°18'02 | 25°27 | 18° 6 | 0♐ 7 | 26°25 | 24°24 | 19°33 | 13°48 | 19°43 | 2° 7 | 16°R28 | 17° 8 | 14°36 | 5°24 | T 22 |
| F 23 | 2 8 18 | 0♏17'57 | 8♌11 | 19°46 | 1°20 | 26°50 | 24°28 | 19°38 | 13°46 | 19°42 | 2° 8 | 16°28 | 17° 4 | 14°43 | 5°23 | F 23 |
| S 24 | 2 12 14 | 1°17'54 | 21°21 | 21°26 | 2°34 | 27°16 | 24°32 | 19°44 | 13°44 | 19°40 | 2° 8 | 16°26 | 17° 1 | 14°49 | 5°23 | S 24 |
| S 25 | 2 16 11 | 2°17'54 | 5♍ 0 | 23° 6 | 3°47 | 27°41 | 24°35 | 19°49 | 13°43 | 19°39 | 2° 8 | 16°22 | 16°58 | 14°56 | 5°22 | S 25 |
| M26 | 2 20 7 | 3°17'55 | 19° 9 | 24°46 | 5° 1 | 28° 5 | 24°38 | 19°55 | 13°41 | 19°38 | 2° 8 | 16°16 | 16°55 | 15° 3 | 5°21 | M26 |
| T 27 | 2 24 4 | 4°17'59 | 3♎46 | 26°26 | 6°14 | 28°29 | 24°41 | 20° 0 | 13°39 | 19°37 | 2° 9 | 16° 7 | 16°52 | 15° 9 | 5°20 | T 27 |
| W28 | 2 28 0 | 5°18'05 | 18°48 | 28° 6 | 7°27 | 28°53 | 24°44 | 20° 6 | 13°37 | 19°36 | 2° 9 | 15°57 | 16°48 | 15°16 | 5°19 | W28 |
| T 29 | 2 31 57 | 6°18'12 | 4♏ 4 | 29°46 | 8°41 | 29°17 | 24°47 | 20°12 | 13°36 | 19°35 | 2° 9 | 15°46 | 16°45 | 15°23 | 5°17 | T 29 |
| F 30 | 2 35 53 | 7°18'22 | 19°23 | 1♏25 | 9°54 | 29°40 | 24°49 | 20°17 | 13°34 | 19°34 | 2° 9 | 15°37 | 16°42 | 15°30 | 5°16 | F 30 |
| S 31 | 2 39 50 | 8♏18'34 | 4♐35 | 3♏ 4 | 11♐ 8 | 0♌ 2 | 24♋51 | 20♐23 | 13♊32 | 19♓33 | 2♌ 9 | 15♉29 | 16♉39 | 15♉36 | 5♋15 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3 s22 | 14 s36 | 4 s58 | 2n46 | 0n13 | 12 s55 | 0n 5 | 23n10 | 0n42 | 21n42 | 0n 6 | 21 s48 | 1n 8 | 22n32 | 0s 1 | 5s 2 | 1 s15 | 23n59 | 4n20 | 22 s10 | 22 s14 | 20n 1 | 17n 1 | 6 s21 |
| F 2 | 3 45 | 19 31 | 4 39 | 2 59 | 0 29 | 13 22 | 0 2 | 23 7 | 0 43 | 21 41 | 0 6 | 21 49 | 1 8 | 22 32 | 0 1 | 5 3 | 1 15 | 23 59 | 4 21 | 22 11 | 22 15 | 20 2 | 17 1 | 6 22 |
| S 3 | 4 8 | 23 7 | 4 0 | 3 8 | 0 45 | 13 49 | 0s 1 | 23 5 | 0 45 | 21 40 | 0 6 | 21 49 | 1 8 | 22 32 | 0 1 | 5 4 | 1 15 | 23 59 | 4 21 | 22 12 | 22 15 | 20 4 | 17 0 | 6 23 |
| S 4 | 4 32 | 25 7 | 3 6 | 3 11 | 0 59 | 14 16 | 0 4 | 23 2 | 0 46 | 21 39 | 0 6 | 21 50 | 1 7 | 22 32 | 0 1 | 5 4 | 1 15 | 23 59 | 4 21 | 22 13 | 22 15 | 20 6 | 16 59 | 6 23 |
| M 5 | 4 55 | 25 24 | 2 2 | 3 9 | 1 11 | 14 42 | 0 6 | 23 0 | 0 47 | 21 38 | 0 6 | 21 50 | 1 7 | 22 31 | 0 1 | 5 5 | 1 15 | 23 59 | 4 21 | 22 13 | 22 16 | 20 8 | 16 59 | 6 24 |
| T 6 | 5 18 | 24 4 | 0 52 | 3 2 | 1 22 | 15 8 | 0 9 | 22 57 | 0 49 | 21 37 | 0 7 | 21 51 | 1 7 | 22 31 | 0 1 | 5 5 | 1 15 | 23 59 | 4 21 | 22 13 | 22 16 | 20 9 | 16 58 | 6 25 |
| W 7 | 5 41 | 21 22 | 0n19 | 2 50 | 1 32 | 15 34 | 0 12 | 22 54 | 0 50 | 21 36 | 0 7 | 21 51 | 1 7 | 22 31 | 0 1 | 5 6 | 1 15 | 23 59 | 4 21 | 22 13 | 22 17 | 20 11 | 16 57 | 6 25 |
| T 8 | 6 4 | 17 36 | 1 27 | 2 34 | 1 40 | 15 59 | 0 15 | 22 51 | 0 52 | 21 35 | 0 7 | 21 52 | 1 7 | 22 31 | 0 1 | 5 7 | 1 15 | 23 59 | 4 22 | 22 14 | 22 17 | 20 13 | 16 57 | 6 26 |
| F 9 | 6 27 | 13 6 | 2 30 | 2 14 | 1 46 | 16 24 | 0 18 | 22 48 | 0 53 | 21 34 | 0 7 | 21 52 | 1 7 | 22 31 | 0 1 | 5 7 | 1 15 | 23 59 | 4 22 | 22 14 | 22 18 | 20 14 | 16 56 | 6 27 |
| S 10 | 6 50 | 8 6 | 3 23 | 1 50 | 1 52 | 16 49 | 0 21 | 22 45 | 0 55 | 21 34 | 0 7 | 21 53 | 1 6 | 22 31 | 0 1 | 5 8 | 1 15 | 24 0 | 4 22 | 22 15 | 22 18 | 20 16 | 16 55 | 6 27 |
| S 11 | 7 12 | 2 53 | 4 6 | 1 23 | 1 56 | 17 13 | 0 24 | 22 42 | 0 56 | 21 33 | 0 7 | 21 54 | 1 6 | 22 31 | 0 1 | 5 8 | 1 15 | 24 0 | 4 22 | 22 16 | 22 18 | 20 18 | 16 55 | 6 28 |
| M12 | 7 35 | 2n23 | 4 37 | 0 53 | 1 59 | 17 36 | 0 26 | 22 39 | 0 58 | 21 32 | 0 7 | 21 54 | 1 6 | 22 31 | 0 1 | 5 9 | 1 15 | 24 0 | 4 22 | 22 17 | 22 19 | 20 20 | 16 54 | 6 28 |
| T 13 | 7 58 | 7 29 | 4 55 | 0 21 | 2 1 | 17 59 | 0 29 | 22 36 | 0 59 | 21 31 | 0 7 | 21 55 | 1 6 | 22 31 | 0 1 | 5 9 | 1 15 | 24 0 | 4 23 | 22 19 | 22 19 | 20 21 | 16 53 | 6 29 |
| W14 | 8 20 | 12 16 | 4 59 | 0s13 | 2 2 | 18 22 | 0 32 | 22 33 | 1 1 | 21 30 | 0 8 | 21 55 | 1 6 | 22 30 | 0 1 | 5 10 | 1 15 | 24 0 | 4 23 | 22 21 | 22 20 | 20 23 | 16 53 | 6 30 |
| T 15 | 8 42 | 16 33 | 4 50 | 0 49 | 2 2 | 18 44 | 0 35 | 22 30 | 1 3 | 21 30 | 0 8 | 21 56 | 1 6 | 22 30 | 0 1 | 5 10 | 1 15 | 24 0 | 4 23 | 22 23 | 22 20 | 20 25 | 16 52 | 6 30 |
| F 16 | 9 5 | 20 9 | 4 29 | 1 27 | 2 1 | 19 6 | 0 38 | 22 27 | 1 4 | 21 29 | 0 8 | 21 56 | 1 5 | 22 30 | 0 1 | 5 11 | 1 15 | 24 0 | 4 23 | 22 24 | 22 20 | 20 26 | 16 51 | 6 31 |
| S 17 | 9 27 | 22 55 | 3 56 | 2 6 | 1 59 | 19 28 | 0 41 | 22 23 | 1 6 | 21 28 | 0 8 | 21 57 | 1 5 | 22 30 | 0 1 | 5 11 | 1 15 | 24 0 | 4 23 | 22 26 | 22 21 | 20 28 | 16 51 | 6 32 |
| S 18 | 9 48 | 24 41 | 3 12 | 2 46 | 1 57 | 19 48 | 0 44 | 22 20 | 1 7 | 21 27 | 0 8 | 21 57 | 1 5 | 22 30 | 0 1 | 5 12 | 1 15 | 24 0 | 4 23 | 22 27 | 22 21 | 20 30 | 16 50 | 6 32 |
| M19 | 10 10 | 25 21 | 2 20 | 3 26 | 1 54 | 20 9 | 0 46 | 22 17 | 1 9 | 21 27 | 0 8 | 21 58 | 1 5 | 22 30 | 0 1 | 5 12 | 1 15 | 24 0 | 4 24 | 22 27 | 22 22 | 20 31 | 16 49 | 6 33 |
| T 20 | 10 32 | 24 50 | 1 21 | 4 8 | 1 51 | 20 28 | 0 49 | 22 14 | 1 11 | 21 26 | 0 8 | 21 59 | 1 5 | 22 29 | 0 1 | 5 13 | 1 15 | 24 0 | 4 24 | 22 28 | 22 22 | 20 33 | 16 49 | 6 34 |
| W21 | 10 53 | 23 8 | 0 18 | 4 49 | 1 47 | 20 48 | 0 52 | 22 10 | 1 12 | 21 26 | 0 9 | 21 59 | 1 5 | 22 29 | 0 1 | 5 13 | 1 15 | 24 0 | 4 24 | 22 28 | 22 22 | 20 35 | 16 48 | 6 34 |
| T 22 | 11 15 | 20 19 | 0s47 | 5 31 | 1 43 | 21 6 | 0 55 | 22 7 | 1 14 | 21 25 | 0 9 | 22 0 | 1 5 | 22 29 | 0 1 | 5 14 | 1 15 | 24 0 | 4 24 | 22 28 | 22 23 | 20 36 | 16 48 | 6 35 |
| F 23 | 11 36 | 16 26 | 1 53 | 6 14 | 1 38 | 21 24 | 0 58 | 22 4 | 1 16 | 21 25 | 0 9 | 22 0 | 1 4 | 22 29 | 0 1 | 5 14 | 1 15 | 24 1 | 4 24 | 22 28 | 22 23 | 20 38 | 16 47 | 6 35 |
| S 24 | 11 57 | 11 40 | 2 54 | 6 56 | 1 33 | 21 42 | 1 0 | 22 1 | 1 18 | 21 24 | 0 9 | 22 1 | 1 4 | 22 29 | 0 1 | 5 15 | 1 15 | 24 1 | 4 25 | 22 28 | 22 24 | 20 40 | 16 46 | 6 36 |
| S 25 | 12 18 | 6 10 | 3 47 | 7 38 | 1 28 | 21 59 | 1 3 | 21 57 | 1 19 | 21 24 | 0 9 | 22 1 | 1 4 | 22 29 | 0 1 | 5 15 | 1 15 | 24 1 | 4 25 | 22 28 | 22 24 | 20 41 | 16 46 | 6 37 |
| M26 | 12 38 | 0 11 | 4 29 | 8 20 | 1 23 | 22 15 | 1 6 | 21 54 | 1 21 | 21 23 | 0 9 | 22 2 | 1 4 | 22 28 | 0 1 | 5 15 | 1 15 | 24 1 | 4 25 | 22 29 | 22 24 | 20 43 | 16 45 | 6 37 |
| T 27 | 12 58 | 6s 1 | 4 55 | 9 2 | 1 17 | 22 31 | 1 9 | 21 51 | 1 23 | 21 23 | 0 10 | 22 2 | 1 4 | 22 28 | 0 1 | 5 16 | 1 15 | 24 1 | 4 25 | 22 30 | 22 25 | 20 44 | 16 45 | 6 38 |
| W28 | 13 19 | 12 1 | 5 2 | 9 43 | 1 11 | 22 46 | 1 11 | 21 48 | 1 25 | 21 22 | 0 10 | 22 3 | 1 4 | 22 28 | 0 1 | 5 16 | 1 15 | 24 1 | 4 25 | 22 32 | 22 25 | 20 46 | 16 44 | 6 39 |
| T 29 | 13 39 | 17 23 | 4 47 | 10 24 | 1 5 | 23 0 | 1 14 | 21 45 | 1 27 | 21 22 | 0 10 | 22 4 | 1 4 | 22 28 | 0 0 | 5 17 | 1 15 | 24 1 | 4 26 | 22 33 | 22 26 | 20 48 | 16 44 | 6 39 |
| F 30 | 13 58 | 21 38 | 4 12 | 11 4 | 0 58 | 23 14 | 1 16 | 21 42 | 1 28 | 21 22 | 0 10 | 22 4 | 1 4 | 22 27 | 0 0 | 5 17 | 1 15 | 24 2 | 4 26 | 22 34 | 22 26 | 20 49 | 16 43 | 6 40 |
| S 31 | 14 s18 | 24 s21 | 3 s19 | 11 s44 | 0n52 | 23 s27 | 1 s19 | 21n39 | 1n30 | 21n22 | 0n10 | 22 s 5 | 1n 3 | 22n27 | 0s 0 | 5 s17 | 1 s15 | 24n 2 | 4n26 | 22 s35 | 22 s26 | 20n51 | 16n42 | 6 s40 |

Julian Day Number = 2339689.5, Delta T = 16.72 sec
Ecliptic obliquity = 23°28'48, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'55, Lahiri = 19°34'56Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## NOVEMBER 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 43 47 | 9♏18'47 | 19♐29 | 4♏42 | 12♐21 | 0♌25 | 24♋53 | 20♐29 | 13°R30 | 19°R32 | 2♌ 9 | 15°R24 | 16♑36 | 15♉43 | 5°R13 | S 1 |
| M 2 | 2 47 43 | 10°19'02 | 3♑59 | 6°20 | 13°34 | 0°47 | 24°55 | 20°35 | 13♊28 | 19♓31 | 2°R 9 | 15♑21 | 16°33 | 15°50 | 5♋12 | M 2 |
| T 3 | 2 51 40 | 11°19'18 | 18° 1 | 7°58 | 14°48 | 1° 8 | 24°57 | 20°41 | 13°26 | 19°30 | 2° 9 | 15°D21 | 16°29 | 15°56 | 5°10 | T 3 |
| W 4 | 2 55 36 | 12°19'36 | 1♒36 | 9°36 | 16° 1 | 1°29 | 24°58 | 20°47 | 13°24 | 19°29 | 2° 9 | 15°21 | 16°26 | 16° 3 | 5° 8 | W 4 |
| T 5 | 2 59 33 | 13°19'55 | 14°47 | 11°13 | 17°14 | 1°50 | 25° 0 | 20°53 | 13°22 | 19°29 | 2° 9 | 15°R22 | 16°23 | 16°10 | 5° 7 | T 5 |
| F 6 | 3 3 29 | 14°20'16 | 27°35 | 12°49 | 18°28 | 2°10 | 25° 1 | 20°59 | 13°20 | 19°28 | 2° 9 | 15°21 | 16°20 | 16°17 | 5° 5 | F 6 |
| S 7 | 3 7 26 | 15°20'38 | 10♓ 7 | 14°26 | 19°41 | 2°30 | 25° 2 | 21° 5 | 13°17 | 19°27 | 2° 9 | 15°18 | 16°17 | 16°23 | 5° 3 | S 7 |
| S 8 | 3 11 23 | 16°21'01 | 22°24 | 16° 2 | 20°54 | 2°49 | 25° 2 | 21°11 | 13°15 | 19°26 | 2° 9 | 15°12 | 16°14 | 16°30 | 5° 1 | S 8 |
| M 9 | 3 15 19 | 17°21'26 | 4♈32 | 17°38 | 22° 7 | 3° 8 | 25° 3 | 21°18 | 13°13 | 19°26 | 2° 8 | 15° 4 | 16°10 | 16°37 | 4°59 | M 9 |
| T 10 | 3 19 16 | 18°21'52 | 16°33 | 19°13 | 23°20 | 3°27 | 25° 3 | 21°24 | 13°11 | 19°25 | 2° 8 | 14°54 | 16° 7 | 16°43 | 4°57 | T 10 |
| W11 | 3 23 12 | 19°22'20 | 28°28 | 20°48 | 24°33 | 3°44 | 25°R 3 | 21°30 | 13° 9 | 19°24 | 2° 8 | 14°43 | 16° 4 | 16°50 | 4°54 | W11 |
| T 12 | 3 27 9 | 20°22'49 | 10♉21 | 22°23 | 25°46 | 4° 2 | 25° 3 | 21°37 | 13° 6 | 19°24 | 2° 8 | 14°32 | 16° 1 | 16°57 | 4°52 | T 12 |
| F 13 | 3 31 5 | 21°23'20 | 22°12 | 23°58 | 26°59 | 4°19 | 25° 3 | 21°43 | 13° 4 | 19°23 | 2° 7 | 14°21 | 15°58 | 17° 3 | 4°50 | F 13 |
| S 14 | 3 35 2 | 22°23'52 | 4♊ 4 | 25°33 | 28°12 | 4°35 | 25° 2 | 21°49 | 13° 2 | 19°23 | 2° 7 | 14°13 | 15°54 | 17°10 | 4°47 | S 14 |
| S 15 | 3 38 58 | 23°24'26 | 15°57 | 27° 7 | 29°25 | 4°51 | 25° 1 | 21°56 | 12°59 | 19°22 | 2° 7 | 14° 6 | 15°51 | 17°17 | 4°45 | S 15 |
| M16 | 3 42 55 | 24°25'02 | 27°55 | 28°41 | 0♑38 | 5° 7 | 25° 1 | 22° 2 | 12°57 | 19°22 | 2° 6 | 14° 3 | 15°48 | 17°24 | 4°42 | M16 |
| T 17 | 3 46 52 | 25°25'39 | 9♋58 | 0♐15 | 1°51 | 5°22 | 24°59 | 22° 9 | 12°55 | 19°21 | 2° 6 | 14°D 1 | 15°45 | 17°30 | 4°39 | T 17 |
| W18 | 3 50 48 | 26°26'18 | 22°11 | 1°48 | 3° 4 | 5°36 | 24°58 | 22°15 | 12°52 | 19°21 | 2° 6 | 14° 1 | 15°42 | 17°37 | 4°37 | W18 |
| T 19 | 3 54 45 | 27°26'58 | 4♌37 | 3°22 | 4°17 | 5°50 | 24°57 | 22°22 | 12°50 | 19°20 | 2° 5 | 14° 2 | 15°39 | 17°44 | 4°34 | T 19 |
| F 20 | 3 58 41 | 28°27'41 | 17°21 | 4°55 | 5°30 | 6° 3 | 24°55 | 22°29 | 12°47 | 19°20 | 2° 5 | 14° 4 | 15°35 | 17°50 | 4°31 | F 20 |
| S 21 | 4 2 38 | 29°28'24 | 0♍25 | 6°28 | 6°42 | 6°16 | 24°53 | 22°35 | 12°45 | 19°20 | 2° 4 | 14°R 4 | 15°32 | 17°57 | 4°28 | S 21 |
| S 22 | 4 6 34 | 0♐29'09 | 13°55 | 8° 2 | 7°55 | 6°28 | 24°51 | 22°42 | 12°42 | 19°19 | 2° 4 | 14° 3 | 15°29 | 18° 4 | 4°25 | S 22 |
| M23 | 4 10 31 | 1°29'56 | 27°52 | 9°35 | 9° 8 | 6°39 | 24°49 | 22°49 | 12°40 | 19°19 | 2° 3 | 14° 1 | 15°26 | 18°10 | 4°22 | M23 |
| T 24 | 4 14 27 | 2°30'45 | 12♎16 | 11° 8 | 10°20 | 6°50 | 24°46 | 22°56 | 12°37 | 19°19 | 2° 3 | 13°56 | 15°23 | 18°17 | 4°19 | T 24 |
| W25 | 4 18 24 | 3°31'35 | 27° 3 | 12°40 | 11°33 | 7° 0 | 24°44 | 23° 2 | 12°35 | 19°19 | 2° 2 | 13°50 | 15°20 | 18°24 | 4°15 | W25 |
| T 26 | 4 22 21 | 4°32'26 | 12♏ 9 | 14°13 | 12°46 | 7° 9 | 24°41 | 23° 9 | 12°32 | 19°19 | 2° 1 | 13°44 | 15°16 | 18°31 | 4°12 | T 26 |
| F 27 | 4 26 17 | 5°33'19 | 27°24 | 15°46 | 13°58 | 7°18 | 24°38 | 23°16 | 12°30 | 19°18 | 2° 1 | 13°38 | 15°13 | 18°37 | 4° 9 | F 27 |
| S 28 | 4 30 14 | 6°34'13 | 12♐36 | 17°18 | 15°11 | 7°26 | 24°34 | 23°23 | 12°27 | 19°18 | 2° 0 | 13°34 | 15°10 | 18°44 | 4° 5 | S 28 |
| S 29 | 4 34 10 | 7°35'08 | 27°37 | 18°51 | 16°23 | 7°34 | 24°31 | 23°30 | 12°25 | 19°18 | 2° 0 | 13°31 | 15° 7 | 18°51 | 4° 2 | S 29 |
| M30 | 4 38 7 | 8♐36'04 | 12♑17 | 20♐23 | 17♑35 | 7♌40 | 24♋27 | 23♐37 | 12♊22 | 19°D18 | 1♌59 | 13°D30 | 15♑ 4 | 18♉57 | 3♋59 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s37 | 25s16 | 2s13 | 12s24 | 0n45 | 23s39 | 1s21 | 21n36 | 1n32 | 21n21 | 0n10 | 22s 5 | 1n 3 | 22n27 | 0s 0 | 5s18 | 1s15 | 24n 2 | 4n26 | 22s35 | 22s27 | 20n52 | 16n42 | 6s41 |
| M 2 | 14 56 | 24 25 | 1 0 | 13 3 | 0 39 | 23 51 | 1 24 | 21 33 | 1 34 | 21 21 | 0 10 | 22 6 | 1 3 | 22 27 | 0 0 | 5 18 | 1 15 | 24 2 | 4 26 | 22 36 | 22 27 | 20 54 | 16 41 | 6 42 |
| T 3 | 15 15 | 22 2 | 0n14 | 13 41 | 0 32 | 24 2 | 1 26 | 21 30 | 1 36 | 21 21 | 0 11 | 22 6 | 1 3 | 22 27 | 0 0 | 5 18 | 1 15 | 24 2 | 4 26 | 22 36 | 22 28 | 20 55 | 16 41 | 6 42 |
| W 4 | 15 34 | 18 27 | 1 26 | 14 18 | 0 25 | 24 13 | 1 29 | 21 27 | 1 38 | 21 21 | 0 11 | 22 7 | 1 3 | 22 26 | 0 0 | 5 19 | 1 15 | 24 2 | 4 27 | 22 36 | 22 28 | 20 57 | 16 40 | 6 43 |
| T 5 | 15 52 | 14 2 | 2 30 | 14 55 | 0 19 | 24 23 | 1 31 | 21 25 | 1 40 | 21 21 | 0 11 | 22 7 | 1 3 | 22 26 | 0 0 | 5 19 | 1 15 | 24 3 | 4 27 | 22 36 | 22 28 | 20 59 | 16 40 | 6 43 |
| F 6 | 16 10 | 9 7 | 3 25 | 15 31 | 0 12 | 24 32 | 1 33 | 21 22 | 1 42 | 21 21 | 0 11 | 22 8 | 1 3 | 22 26 | 0 0 | 5 19 | 1 14 | 24 3 | 4 27 | 22 36 | 22 29 | 21 0 | 16 39 | 6 44 |
| S 7 | 16 28 | 3 56 | 4 9 | 16 7 | 0 5 | 24 40 | 1 36 | 21 19 | 1 44 | 21 21 | 0 11 | 22 8 | 1 3 | 22 26 | 0 0 | 5 19 | 1 14 | 24 3 | 4 27 | 22 36 | 22 29 | 21 2 | 16 39 | 6 44 |
| S 8 | 16 45 | 1n17 | 4 41 | 16 41 | 0s 1 | 24 47 | 1 38 | 21 17 | 1 46 | 21 21 | 0 11 | 22 9 | 1 2 | 22 25 | 0 0 | 5 20 | 1 14 | 24 3 | 4 27 | 22 37 | 22 30 | 21 3 | 16 38 | 6 45 |
| M 9 | 17 3 | 6 23 | 4 59 | 17 15 | 0 8 | 24 54 | 1 40 | 21 14 | 1 48 | 21 21 | 0 12 | 22 9 | 1 2 | 22 25 | 0 0 | 5 20 | 1 14 | 24 3 | 4 28 | 22 38 | 22 30 | 21 5 | 16 38 | 6 46 |
| T 10 | 17 19 | 11 11 | 5 4 | 17 48 | 0 15 | 25 1 | 1 42 | 21 12 | 1 50 | 21 21 | 0 12 | 22 10 | 1 2 | 22 25 | 0 0 | 5 20 | 1 14 | 24 4 | 4 28 | 22 39 | 22 30 | 21 6 | 16 37 | 6 46 |
| W11 | 17 36 | 15 33 | 4 56 | 18 20 | 0 21 | 25 6 | 1 44 | 21 10 | 1 52 | 21 21 | 0 12 | 22 11 | 1 2 | 22 25 | 0 0 | 5 20 | 1 14 | 24 4 | 4 28 | 22 40 | 22 31 | 21 8 | 16 37 | 6 47 |
| T 12 | 17 52 | 19 17 | 4 35 | 18 51 | 0 28 | 25 11 | 1 46 | 21 8 | 1 54 | 21 21 | 0 12 | 22 11 | 1 2 | 22 24 | 0 0 | 5 21 | 1 14 | 24 4 | 4 28 | 22 41 | 22 31 | 21 9 | 16 36 | 6 47 |
| F 13 | 18 8 | 22 14 | 4 1 | 19 21 | 0 34 | 25 15 | 1 48 | 21 6 | 1 57 | 21 22 | 0 12 | 22 12 | 1 2 | 22 24 | 0 0 | 5 21 | 1 14 | 24 4 | 4 28 | 22 42 | 22 31 | 21 11 | 16 36 | 6 48 |
| S 14 | 18 24 | 24 14 | 3 18 | 19 50 | 0 41 | 25 18 | 1 50 | 21 4 | 1 59 | 21 22 | 0 12 | 22 12 | 1 2 | 22 24 | 0 0 | 5 21 | 1 14 | 24 5 | 4 29 | 22 43 | 22 32 | 21 12 | 16 36 | 6 48 |
| S 15 | 18 39 | 25 9 | 2 25 | 20 19 | 0 47 | 25 20 | 1 51 | 21 2 | 2 1 | 21 22 | 0 12 | 22 13 | 1 2 | 22 23 | 0 0 | 5 21 | 1 14 | 24 5 | 4 29 | 22 44 | 22 32 | 21 14 | 16 35 | 6 49 |
| M16 | 18 54 | 24 54 | 1 26 | 20 46 | 0 53 | 25 22 | 1 53 | 21 1 | 2 3 | 21 22 | 0 13 | 22 13 | 1 1 | 22 23 | 0 0 | 5 21 | 1 14 | 24 5 | 4 29 | 22 44 | 22 33 | 21 15 | 16 35 | 6 49 |
| T 17 | 19 9 | 23 28 | 0 22 | 21 12 | 0 59 | 25 23 | 1 55 | 20 59 | 2 5 | 21 23 | 0 13 | 22 14 | 1 1 | 22 23 | 0 0 | 5 22 | 1 14 | 24 5 | 4 29 | 22 44 | 22 33 | 21 17 | 16 34 | 6 50 |
| W18 | 19 23 | 20 56 | 0s44 | 21 37 | 1 5 | 25 23 | 1 56 | 20 58 | 2 8 | 21 23 | 0 13 | 22 14 | 1 1 | 22 23 | 0 0 | 5 22 | 1 14 | 24 6 | 4 29 | 22 44 | 22 33 | 21 18 | 16 34 | 6 50 |
| T 19 | 19 37 | 17 22 | 1 49 | 22 2 | 1 11 | 25 22 | 1 58 | 20 57 | 2 10 | 21 24 | 0 13 | 22 15 | 1 1 | 22 22 | 0 0 | 5 22 | 1 14 | 24 6 | 4 29 | 22 44 | 22 34 | 21 20 | 16 34 | 6 51 |
| F 20 | 19 51 | 12 57 | 2 50 | 22 25 | 1 17 | 25 21 | 1 59 | 20 56 | 2 12 | 21 24 | 0 13 | 22 15 | 1 1 | 22 22 | 0 0 | 5 22 | 1 14 | 24 6 | 4 30 | 22 44 | 22 34 | 21 21 | 16 33 | 6 51 |
| S 21 | 20 4 | 7 50 | 3 45 | 22 47 | 1 22 | 25 19 | 2 1 | 20 55 | 2 15 | 21 25 | 0 13 | 22 15 | 1 1 | 22 22 | 0 0 | 5 22 | 1 14 | 24 7 | 4 30 | 22 44 | 22 34 | 21 23 | 16 33 | 6 52 |
| S 22 | 20 17 | 2 13 | 4 28 | 23 7 | 1 27 | 25 16 | 2 2 | 20 54 | 2 17 | 21 25 | 0 14 | 22 16 | 1 1 | 22 21 | 0 0 | 5 22 | 1 14 | 24 7 | 4 30 | 22 44 | 22 35 | 21 24 | 16 32 | 6 52 |
| M23 | 20 30 | 3s42 | 4 58 | 23 27 | 1 33 | 25 13 | 2 3 | 20 53 | 2 19 | 21 26 | 0 14 | 22 16 | 1 1 | 22 21 | 0 0 | 5 22 | 1 14 | 24 7 | 4 30 | 22 44 | 22 35 | 21 26 | 16 32 | 6 53 |
| T 24 | 20 42 | 9 36 | 5 10 | 23 45 | 1 38 | 25 8 | 2 4 | 20 53 | 2 22 | 21 26 | 0 14 | 22 17 | 1 1 | 22 21 | 0 0 | 5 22 | 1 14 | 24 7 | 4 30 | 22 45 | 22 35 | 21 27 | 16 32 | 6 53 |
| W25 | 20 54 | 15 7 | 5 2 | 24 3 | 1 42 | 25 3 | 2 5 | 20 53 | 2 24 | 21 27 | 0 14 | 22 17 | 1 1 | 22 20 | 0 0 | 5 22 | 1 14 | 24 8 | 4 30 | 22 46 | 22 36 | 21 29 | 16 31 | 6 53 |
| T 26 | 21 5 | 19 50 | 4 33 | 24 19 | 1 47 | 24 58 | 2 6 | 20 53 | 2 27 | 21 28 | 0 14 | 22 18 | 1 0 | 22 20 | 0 0 | 5 22 | 1 14 | 24 8 | 4 31 | 22 46 | 22 36 | 21 30 | 16 31 | 6 54 |
| F 27 | 21 16 | 23 15 | 3 45 | 24 33 | 1 51 | 24 51 | 2 7 | 20 53 | 2 29 | 21 28 | 0 14 | 22 18 | 1 0 | 22 20 | 0 0 | 5 22 | 1 14 | 24 8 | 4 31 | 22 47 | 22 37 | 21 31 | 16 31 | 6 54 |
| S 28 | 21 27 | 25 0 | 2 40 | 24 47 | 1 55 | 24 44 | 2 8 | 20 53 | 2 32 | 21 29 | 0 15 | 22 19 | 1 0 | 22 19 | 0 0 | 5 22 | 1 14 | 24 9 | 4 31 | 22 47 | 22 37 | 21 33 | 16 30 | 6 55 |
| S 29 | 21 37 | 24 53 | 1 26 | 24 59 | 1 59 | 24 36 | 2 9 | 20 54 | 2 34 | 21 30 | 0 15 | 22 19 | 1 0 | 22 19 | 0 0 | 5 22 | 1 14 | 24 9 | 4 31 | 22 48 | 22 37 | 21 34 | 16 30 | 6 55 |
| M30 | 21s46 | 23s 1 | 0s 7 | 25s10 | 2s 2 | 24s27 | 2s 9 | 20n54 | 2n37 | 21n31 | 0n15 | 22s19 | 1n 0 | 22n19 | 0s 0 | 5s22 | 1s14 | 24n 9 | 4n31 | 22s48 | 22s38 | 21n36 | 16n30 | 6s55 |

Julian Day Number = 2339720.5, Delta T = 16.69 sec
Ecliptic obliquity = 23°28'47, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°27'59, Lahiri = 19°35'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1693
# geocentric

## DECEMBER 1693 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 42 3 | 9♐37'01 | 26♑31 | 21♐55 | 18♑48 | 7♌46 | 24°R23 | 23♐44 | 12°R20 | 19♓18 | 1°R58 | 13♑30 | 15♑ 0 | 19♉ 4 | 3°R55 | T 1 |
| W 2 | 4 46 0 | 10°37'59 | 10♒18 | 23°27 | 20° 0 | 7°52 | 24♋19 | 23°51 | 12♊17 | 19°18 | 1♌57 | 13°32 | 14°57 | 19°11 | 3♋52 | W 2 |
| T 3 | 4 49 56 | 11°38'57 | 23°37 | 24°59 | 21°12 | 7°56 | 24°15 | 23°58 | 12°15 | 19°18 | 1°57 | 13°34 | 14°54 | 19°17 | 3°48 | T 3 |
| F 4 | 4 53 53 | 12°39'56 | 6♓31 | 26°30 | 22°24 | 8° 0 | 24°11 | 24° 4 | 12°12 | 19°19 | 1°56 | 13°35 | 14°51 | 19°24 | 3°44 | F 4 |
| S 5 | 4 57 50 | 13°40'55 | 19° 4 | 28° 1 | 23°36 | 8° 3 | 24° 6 | 24°11 | 12° 9 | 19°19 | 1°55 | 13°R35 | 14°48 | 19°31 | 3°41 | S 5 |
| S 6 | 5 1 46 | 14°41'55 | 1♈21 | 29°32 | 24°48 | 8° 6 | 24° 2 | 24°18 | 12° 7 | 19°19 | 1°54 | 13°33 | 14°45 | 19°38 | 3°37 | S 6 |
| M 7 | 5 5 43 | 15°42'56 | 13°26 | 1♉ 3 | 26° 0 | 8° 7 | 23°57 | 24°25 | 12° 4 | 19°19 | 1°53 | 13°31 | 14°41 | 19°44 | 3°33 | M 7 |
| T 8 | 5 9 39 | 16°43'57 | 25°22 | 2°33 | 27°12 | 8° 8 | 23°52 | 24°32 | 12° 2 | 19°19 | 1°52 | 13°27 | 14°38 | 19°51 | 3°29 | T 8 |
| W 9 | 5 13 36 | 17°44'59 | 7♉14 | 4° 2 | 28°24 | 8°R 8 | 23°46 | 24°40 | 11°59 | 19°20 | 1°52 | 13°22 | 14°35 | 19°58 | 3°25 | W 9 |
| T 10 | 5 17 32 | 18°46'02 | 19° 4 | 5°30 | 29°36 | 8° 7 | 23°41 | 24°47 | 11°57 | 19°20 | 1°51 | 13°18 | 14°32 | 20° 4 | 3°22 | T 10 |
| F 11 | 5 21 29 | 19°47'05 | 0♊56 | 6°58 | 0♒47 | 8° 6 | 23°36 | 24°54 | 11°54 | 19°20 | 1°50 | 13°14 | 14°29 | 20°11 | 3°18 | F 11 |
| S 12 | 5 25 25 | 20°48'09 | 12°52 | 8°24 | 1°59 | 8° 3 | 23°30 | 25° 1 | 11°52 | 19°21 | 1°49 | 13°10 | 14°26 | 20°18 | 3°14 | S 12 |
| S 13 | 5 29 22 | 21°49'13 | 24°52 | 9°50 | 3°10 | 8° 0 | 23°24 | 25° 8 | 11°49 | 19°21 | 1°48 | 13° 8 | 14°22 | 20°24 | 3°10 | S 13 |
| M14 | 5 33 19 | 22°50'18 | 7♋ 0 | 11°13 | 4°22 | 7°56 | 23°18 | 25°15 | 11°47 | 19°22 | 1°47 | 13° 7 | 14°19 | 20°31 | 3° 6 | M14 |
| T 15 | 5 37 15 | 23°51'23 | 19°16 | 12°35 | 5°33 | 7°51 | 23°12 | 25°22 | 11°44 | 19°22 | 1°46 | 13°D 7 | 14°16 | 20°38 | 3° 2 | T 15 |
| W16 | 5 41 12 | 24°52'30 | 1♌42 | 13°55 | 6°44 | 7°46 | 23° 6 | 25°29 | 11°42 | 19°23 | 1°45 | 13° 8 | 14°13 | 20°45 | 2°58 | W16 |
| T 17 | 5 45 8 | 25°53'36 | 14°20 | 15°12 | 7°55 | 7°39 | 22°59 | 25°36 | 11°39 | 19°23 | 1°44 | 13° 9 | 14°10 | 20°51 | 2°54 | T 17 |
| F 18 | 5 49 5 | 26°54'44 | 27°13 | 16°27 | 9° 6 | 7°32 | 22°53 | 25°43 | 11°37 | 19°24 | 1°43 | 13°10 | 14° 6 | 20°58 | 2°50 | F 18 |
| S 19 | 5 53 1 | 27°55'52 | 10♍22 | 17°38 | 10°17 | 7°24 | 22°46 | 25°50 | 11°34 | 19°25 | 1°42 | 13°11 | 14° 3 | 21° 5 | 2°46 | S 19 |
| S 20 | 5 56 58 | 28°57'00 | 23°49 | 18°44 | 11°28 | 7°15 | 22°39 | 25°57 | 11°32 | 19°25 | 1°40 | 13°R12 | 14° 0 | 21°11 | 2°42 | S 20 |
| M21 | 6 0 54 | 29°58'09 | 7♎37 | 19°47 | 12°39 | 7° 5 | 22°32 | 26° 4 | 11°30 | 19°26 | 1°39 | 13°12 | 13°57 | 21°18 | 2°37 | M21 |
| T 22 | 6 4 51 | 0♑59'19 | 21°45 | 20°43 | 13°49 | 6°54 | 22°25 | 26°11 | 11°27 | 19°27 | 1°38 | 13°11 | 13°54 | 21°25 | 2°33 | T 22 |
| W23 | 6 8 48 | 2° 0'30 | 6♏12 | 21°34 | 15° 0 | 6°43 | 22°18 | 26°18 | 11°25 | 19°27 | 1°37 | 13°10 | 13°51 | 21°31 | 2°29 | W23 |
| T 24 | 6 12 44 | 3° 1'41 | 20°54 | 22°18 | 16°10 | 6°30 | 22°11 | 26°25 | 11°23 | 19°28 | 1°36 | 13° 9 | 13°47 | 21°38 | 2°25 | T 24 |
| F 25 | 6 16 41 | 4° 2'52 | 5♐46 | 22°53 | 17°20 | 6°17 | 22° 4 | 26°32 | 11°20 | 19°29 | 1°35 | 13° 8 | 13°44 | 21°45 | 2°21 | F 25 |
| S 26 | 6 20 37 | 5° 4'04 | 20°40 | 23°20 | 18°31 | 6° 3 | 21°56 | 26°40 | 11°18 | 19°30 | 1°34 | 13° 7 | 13°41 | 21°51 | 2°17 | S 26 |
| S 27 | 6 24 34 | 6° 5'16 | 5♑29 | 23°38 | 19°41 | 5°49 | 21°49 | 26°47 | 11°16 | 19°31 | 1°32 | 13° 6 | 13°38 | 21°58 | 2°13 | S 27 |
| M28 | 6 28 30 | 7° 6'28 | 20° 4 | 23°R44 | 20°51 | 5°33 | 21°41 | 26°54 | 11°14 | 19°32 | 1°31 | 13°D 6 | 13°35 | 22° 5 | 2° 9 | M28 |
| T 29 | 6 32 27 | 8° 7'40 | 4♒20 | 23°40 | 22° 0 | 5°17 | 21°34 | 27° 1 | 11°11 | 19°33 | 1°30 | 13° 7 | 13°32 | 22°12 | 2° 5 | T 29 |
| W30 | 6 36 24 | 9° 8'52 | 18°12 | 23°23 | 23°10 | 5° 0 | 21°26 | 27° 8 | 11° 9 | 19°34 | 1°29 | 13° 7 | 13°28 | 22°18 | 2° 1 | W30 |
| T 31 | 6 40 20 | 10♑10'03 | 1♓39 | 22♑55 | 24♒19 | 4♌43 | 21♋18 | 27♐14 | 11♊ 7 | 19♓35 | 1♌27 | 13♑ 8 | 13♑25 | 22♉25 | 1♋57 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s56 | 19s44 | 1n11 | 25s19 | 2s 5 | 24s18 | 2s10 | 20n55 | 2n39 | 21n32 | 0n15 | 22s20 | 1n 0 | 22n18 | 0s 0 | 5s22 | 1s14 | 24n10 | 4n32 | 22s48 | 22s38 | 21n37 | 16n30 | 6s56 |
| W 2 | 22 5 | 15 25 | 2 21 | 25 27 | 2 8 | 24 8 | 2 10 | 20 56 | 2 42 | 21 32 | 0 15 | 22 20 | 1 0 | 22 18 | 0 0 | 5 22 | 1 14 | 24 10 | 4 32 | 22 47 | 22 38 | 21 38 | 16 29 | 6 56 |
| T 3 | 22 13 | 10 30 | 3 22 | 25 34 | 2 11 | 23 57 | 2 10 | 20 58 | 2 44 | 21 33 | 0 15 | 22 21 | 1 0 | 22 18 | 0 0 | 5 22 | 1 14 | 24 10 | 4 32 | 22 47 | 22 39 | 21 40 | 16 29 | 6 56 |
| F 4 | 22 21 | 5 15 | 4 10 | 25 39 | 2 13 | 23 46 | 2 11 | 20 59 | 2 47 | 21 34 | 0 16 | 22 21 | 1 0 | 22 17 | 0 0 | 5 22 | 1 14 | 24 11 | 4 32 | 22 47 | 22 39 | 21 41 | 16 29 | 6 57 |
| S 5 | 22 29 | 0n 3 | 4 45 | 25 42 | 2 15 | 23 34 | 2 11 | 21 1 | 2 50 | 21 35 | 0 16 | 22 21 | 1 0 | 22 17 | 0 0 | 5 22 | 1 14 | 24 11 | 4 32 | 22 47 | 22 39 | 21 43 | 16 29 | 6 57 |
| S 6 | 22 36 | 5 13 | 5 6 | 25 45 | 2 16 | 23 21 | 2 11 | 21 3 | 2 52 | 21 36 | 0 16 | 22 22 | 1 0 | 22 17 | 0 0 | 5 22 | 1 14 | 24 11 | 4 32 | 22 47 | 22 40 | 21 44 | 16 28 | 6 57 |
| M 7 | 22 43 | 10 7 | 5 13 | 25 45 | 2 17 | 23 7 | 2 11 | 21 5 | 2 55 | 21 37 | 0 16 | 22 22 | 1 0 | 22 16 | 0 0 | 5 22 | 1 13 | 24 12 | 4 33 | 22 48 | 22 40 | 21 45 | 16 28 | 6 58 |
| T 8 | 22 49 | 14 35 | 5 7 | 25 45 | 2 17 | 22 53 | 2 11 | 21 7 | 2 58 | 21 38 | 0 16 | 22 23 | 0 59 | 22 16 | 0 0 | 5 22 | 1 13 | 24 12 | 4 33 | 22 48 | 22 40 | 21 47 | 16 28 | 6 58 |
| W 9 | 22 55 | 18 28 | 4 47 | 25 42 | 2 17 | 22 39 | 2 10 | 21 10 | 3 0 | 21 39 | 0 17 | 22 23 | 0 59 | 22 16 | 0 0 | 5 21 | 1 13 | 24 12 | 4 33 | 22 48 | 22 41 | 21 48 | 16 28 | 6 58 |
| T 10 | 23 0 | 21 36 | 4 15 | 25 39 | 2 17 | 22 23 | 2 10 | 21 13 | 3 3 | 21 40 | 0 17 | 22 23 | 0 59 | 22 16 | 0 0 | 5 21 | 1 13 | 24 13 | 4 33 | 22 49 | 22 41 | 21 49 | 16 28 | 6 59 |
| F 11 | 23 5 | 23 50 | 3 32 | 25 33 | 2 16 | 22 7 | 2 10 | 21 16 | 3 6 | 21 41 | 0 17 | 22 24 | 0 59 | 22 15 | 0 0 | 5 21 | 1 13 | 24 13 | 4 33 | 22 49 | 22 41 | 21 51 | 16 28 | 6 59 |
| S 12 | 23 10 | 25 0 | 2 39 | 25 26 | 2 14 | 21 51 | 2 9 | 21 19 | 3 8 | 21 43 | 0 17 | 22 24 | 0 59 | 22 15 | 0 0 | 5 21 | 1 13 | 24 14 | 4 33 | 22 50 | 22 42 | 21 52 | 16 27 | 6 59 |
| S 13 | 23 14 | 25 2 | 1 39 | 25 18 | 2 12 | 21 34 | 2 8 | 21 22 | 3 11 | 21 44 | 0 17 | 22 24 | 0 59 | 22 15 | 0 0 | 5 21 | 1 13 | 24 14 | 4 33 | 22 50 | 22 42 | 21 53 | 16 27 | 6 59 |
| M14 | 23 17 | 23 51 | 0 34 | 25 8 | 2 8 | 21 16 | 2 8 | 21 26 | 3 14 | 21 45 | 0 17 | 22 25 | 0 59 | 22 14 | 0 0 | 5 20 | 1 13 | 24 14 | 4 34 | 22 50 | 22 43 | 21 55 | 16 27 | 7 0 |
| T 15 | 23 20 | 21 32 | 0s34 | 24 57 | 2 5 | 20 58 | 2 7 | 21 30 | 3 16 | 21 46 | 0 18 | 22 25 | 0 59 | 22 14 | 0 0 | 5 20 | 1 13 | 24 15 | 4 34 | 22 50 | 22 43 | 21 56 | 16 27 | 7 0 |
| W16 | 23 23 | 18 11 | 1 41 | 24 44 | 2 0 | 20 39 | 2 6 | 21 34 | 3 19 | 21 47 | 0 18 | 22 25 | 0 59 | 22 14 | 0 0 | 5 20 | 1 13 | 24 15 | 4 34 | 22 50 | 22 43 | 21 57 | 16 27 | 7 0 |
| T 17 | 23 25 | 13 56 | 2 44 | 24 31 | 1 55 | 20 19 | 2 5 | 21 38 | 3 22 | 21 49 | 0 18 | 22 26 | 0 59 | 22 13 | 0 0 | 5 20 | 1 13 | 24 15 | 4 34 | 22 50 | 22 44 | 21 59 | 16 27 | 7 0 |
| F 18 | 23 27 | 9 0 | 3 40 | 24 16 | 1 48 | 19 59 | 2 3 | 21 43 | 3 24 | 21 50 | 0 18 | 22 26 | 0 59 | 22 13 | 0 0 | 5 19 | 1 13 | 24 16 | 4 34 | 22 50 | 22 44 | 22 0 | 16 27 | 7 0 |
| S 19 | 23 28 | 3 35 | 4 26 | 23 59 | 1 41 | 19 39 | 2 2 | 21 47 | 3 27 | 21 51 | 0 18 | 22 26 | 0 59 | 22 13 | 0n 0 | 5 19 | 1 13 | 24 16 | 4 34 | 22 49 | 22 44 | 22 1 | 16 27 | 7 0 |
| S 20 | 23 29 | 2s 7 | 4 59 | 23 42 | 1 33 | 19 18 | 2 1 | 21 52 | 3 30 | 21 52 | 0 18 | 22 26 | 0 59 | 22 12 | 0 0 | 5 19 | 1 13 | 24 17 | 4 34 | 22 49 | 22 45 | 22 3 | 16 27 | 7 1 |
| M21 | 23 29 | 7 51 | 5 15 | 23 24 | 1 24 | 18 57 | 1 59 | 21 57 | 3 32 | 21 54 | 0 18 | 22 27 | 0 59 | 22 12 | 0 0 | 5 19 | 1 13 | 24 17 | 4 35 | 22 49 | 22 45 | 22 4 | 16 27 | 7 1 |
| T 22 | 23 29 | 13 20 | 5 13 | 23 5 | 1 13 | 18 35 | 1 57 | 22 2 | 3 35 | 21 55 | 0 19 | 22 27 | 0 59 | 22 12 | 0 0 | 5 18 | 1 13 | 24 17 | 4 35 | 22 49 | 22 45 | 22 5 | 16 27 | 7 1 |
| W23 | 23 28 | 18 11 | 4 52 | 22 46 | 1 2 | 18 12 | 1 56 | 22 8 | 3 37 | 21 56 | 0 19 | 22 27 | 0 58 | 22 11 | 0 0 | 5 18 | 1 13 | 24 18 | 4 35 | 22 50 | 22 46 | 22 6 | 16 27 | 7 1 |
| T 24 | 23 27 | 22 2 | 4 11 | 22 26 | 0 49 | 17 49 | 1 54 | 22 13 | 3 40 | 21 58 | 0 19 | 22 27 | 0 58 | 22 11 | 0 0 | 5 18 | 1 13 | 24 18 | 4 35 | 22 50 | 22 46 | 22 8 | 16 27 | 7 1 |
| F 25 | 23 25 | 24 28 | 3 13 | 22 7 | 0 35 | 17 26 | 1 52 | 22 19 | 3 42 | 21 59 | 0 19 | 22 28 | 0 58 | 22 11 | 0 0 | 5 17 | 1 13 | 24 19 | 4 35 | 22 50 | 22 46 | 22 9 | 16 26 | 7 1 |
| S 26 | 23 23 | 25 10 | 2 1 | 21 47 | 0 20 | 17 2 | 1 50 | 22 25 | 3 45 | 22 0 | 0 19 | 22 28 | 0 58 | 22 10 | 0 0 | 5 17 | 1 13 | 24 19 | 4 35 | 22 50 | 22 46 | 22 10 | 16 26 | 7 1 |
| S 27 | 23 20 | 24 4 | 0 42 | 21 29 | 0 4 | 16 38 | 1 47 | 22 31 | 3 47 | 22 2 | 0 19 | 22 28 | 0 58 | 22 10 | 0 0 | 5 16 | 1 13 | 24 19 | 4 35 | 22 50 | 22 47 | 22 11 | 16 27 | 7 1 |
| M28 | 23 17 | 21 20 | 0n39 | 21 11 | 0n13 | 16 14 | 1 45 | 22 37 | 3 50 | 22 3 | 0 20 | 22 28 | 0 58 | 22 10 | 0 0 | 5 16 | 1 13 | 24 20 | 4 36 | 22 50 | 22 47 | 22 13 | 16 27 | 7 1 |
| T 29 | 23 14 | 17 21 | 1 55 | 20 54 | 0 31 | 15 49 | 1 43 | 22 44 | 3 52 | 22 4 | 0 20 | 22 29 | 0 58 | 22 10 | 0 0 | 5 16 | 1 13 | 24 20 | 4 36 | 22 50 | 22 47 | 22 14 | 16 27 | 7 1 |
| W30 | 23 10 | 12 30 | 3 3 | 20 38 | 0 50 | 15 24 | 1 40 | 22 50 | 3 54 | 22 6 | 0 20 | 22 29 | 0 58 | 22 9 | 0 0 | 5 15 | 1 13 | 24 21 | 4 36 | 22 50 | 22 48 | 22 15 | 16 27 | 7 1 |
| T 31 | 23s 5 | 7s12 | 3n58 | 20s23 | 1n 9 | 14s58 | 1s37 | 22n57 | 3n57 | 22n 7 | 0n20 | 22s29 | 0n58 | 22n 9 | 0n 0 | 5s15 | 1s13 | 24n21 | 4n36 | 22s50 | 22s48 | 22n16 | 16n27 | 7s 1 |

Julian Day Number = 2339750.5, Delta T = 16.65 sec
Ecliptic obliquity = 23°28'47, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'03, Lahiri = 19°35'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## JANUARY 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 6 44 17 | 11♑11'14 | 14♓41 | 22°R15 | 25♒29 | 4°R24 | 21°R10 | 27♐21 | 11°R 5 | 19♓36 | 1°R26 | 13♑ 8 | 13♑22 | 22♉32 | 1°R52 | F 1 |
| S 2 | 6 48 13 | 12°12'25 | 27°20 | 21♑25 | 26°38 | 4♌ 5 | 21♋ 2 | 27°28 | 11♊ 3 | 19°37 | 1♌25 | 13° 8 | 13°19 | 22°38 | 1♋48 | S 2 |
| S 3 | 6 52 10 | 13°13'35 | 9♈41 | 20°24 | 27°47 | 3°46 | 20°54 | 27°35 | 11° 1 | 19°38 | 1°24 | 13° 8 | 13°16 | 22°45 | 1°44 | S 3 |
| M 4 | 6 56 6 | 14°14'45 | 21°47 | 19°15 | 28°56 | 3°26 | 20°46 | 27°42 | 10°59 | 19°39 | 1°22 | 13° 8 | 13°12 | 22°52 | 1°40 | M 4 |
| T 5 | 7 0 3 | 15°15'54 | 3♉43 | 18° 0 | 0♓ 5 | 3° 5 | 20°38 | 27°49 | 10°57 | 19°41 | 1°21 | 13° 8 | 13° 9 | 22°58 | 1°36 | T 5 |
| W 6 | 7 3 59 | 16°17'03 | 15°34 | 16°41 | 1°13 | 2°44 | 20°30 | 27°56 | 10°55 | 19°42 | 1°20 | 13° 8 | 13° 6 | 23° 5 | 1°33 | W 6 |
| T 7 | 7 7 56 | 17°18'11 | 27°24 | 15°22 | 2°21 | 2°22 | 20°22 | 28° 3 | 10°53 | 19°43 | 1°18 | 13° 9 | 13° 3 | 23°12 | 1°29 | T 7 |
| F 8 | 7 11 53 | 18°19'19 | 9♊18 | 14° 3 | 3°30 | 2° 0 | 20°14 | 28° 9 | 10°51 | 19°44 | 1°17 | 13° 9 | 13° 0 | 23°19 | 1°25 | F 8 |
| S 9 | 7 15 49 | 19°20'26 | 21°17 | 12°48 | 4°38 | 1°38 | 20° 6 | 28°16 | 10°49 | 19°46 | 1°16 | 13°10 | 12°57 | 23°25 | 1°21 | S 9 |
| S 10 | 7 19 46 | 20°21'33 | 3♋26 | 11°39 | 5°45 | 1°15 | 19°58 | 28°23 | 10°47 | 19°47 | 1°14 | 13°10 | 12°53 | 23°32 | 1°17 | S 10 |
| M11 | 7 23 42 | 21°22'39 | 15°47 | 10°37 | 6°53 | 0°52 | 19°50 | 28°30 | 10°46 | 19°48 | 1°13 | 13°R10 | 12°50 | 23°39 | 1°13 | M11 |
| T 12 | 7 27 39 | 22°23'44 | 28°20 | 9°44 | 8° 0 | 0°29 | 19°42 | 28°36 | 10°44 | 19°50 | 1°12 | 13°10 | 12°47 | 23°45 | 1°10 | T 12 |
| W13 | 7 31 35 | 23°24'49 | 11♌ 6 | 8°59 | 9° 7 | 0° 5 | 19°34 | 28°43 | 10°42 | 19°51 | 1°10 | 13° 9 | 12°44 | 23°52 | 1° 6 | W13 |
| T 14 | 7 35 32 | 24°25'53 | 24° 6 | 8°24 | 10°14 | 29♋41 | 19°26 | 28°50 | 10°40 | 19°53 | 1° 9 | 13° 8 | 12°41 | 23°59 | 1° 2 | T 14 |
| F 15 | 7 39 28 | 25°26'57 | 7♍19 | 7°59 | 11°21 | 29°17 | 19°18 | 28°56 | 10°39 | 19°54 | 1° 8 | 13° 6 | 12°38 | 24° 5 | 0°59 | F 15 |
| S 16 | 7 43 25 | 26°28'01 | 20°46 | 7°43 | 12°27 | 28°53 | 19°10 | 29° 3 | 10°37 | 19°56 | 1° 6 | 13° 4 | 12°34 | 24°12 | 0°55 | S 16 |
| S 17 | 7 47 22 | 27°29'03 | 4♎24 | 7°D35 | 13°33 | 28°29 | 19° 2 | 29° 9 | 10°36 | 19°57 | 1° 5 | 13° 3 | 12°31 | 24°19 | 0°51 | S 17 |
| M18 | 7 51 18 | 28°30'06 | 18°15 | 7°36 | 14°39 | 28° 5 | 18°54 | 29°16 | 10°34 | 19°59 | 1° 4 | 13° 2 | 12°28 | 24°25 | 0°48 | M18 |
| T 19 | 7 55 15 | 29°31'08 | 2♏17 | 7°45 | 15°45 | 27°41 | 18°46 | 29°22 | 10°33 | 20° 0 | 1° 2 | 13°D 2 | 12°25 | 24°32 | 0°45 | T 19 |
| W20 | 7 59 11 | 0♒32'09 | 16°28 | 8° 1 | 16°50 | 27°17 | 18°39 | 29°29 | 10°31 | 20° 2 | 1° 1 | 13° 2 | 12°22 | 24°39 | 0°41 | W20 |
| T 21 | 8 3 8 | 1°33'11 | 0♐47 | 8°23 | 17°55 | 26°54 | 18°31 | 29°35 | 10°30 | 20° 3 | 1° 0 | 13° 3 | 12°18 | 24°45 | 0°38 | T 21 |
| F 22 | 8 7 4 | 2°34'11 | 15°11 | 8°52 | 19° 0 | 26°30 | 18°23 | 29°41 | 10°29 | 20° 5 | 0°58 | 13° 5 | 12°15 | 24°52 | 0°35 | F 22 |
| S 23 | 8 11 1 | 3°35'11 | 29°36 | 9°26 | 20° 5 | 26° 7 | 18°16 | 29°48 | 10°27 | 20° 7 | 0°57 | 13° 6 | 12°12 | 24°59 | 0°31 | S 23 |
| S 24 | 8 14 57 | 4°36'10 | 13♑59 | 10° 5 | 21° 9 | 25°44 | 18° 8 | 29°54 | 10°26 | 20° 9 | 0°55 | 13°R 6 | 12° 9 | 25° 6 | 0°28 | S 24 |
| M25 | 8 18 54 | 5°37'08 | 28°13 | 10°48 | 22°13 | 25°21 | 18° 1 | 0♑ 0 | 10°25 | 20°10 | 0°54 | 13° 6 | 12° 6 | 25°12 | 0°25 | M25 |
| T 26 | 8 22 51 | 6°38'06 | 12♒14 | 11°36 | 23°17 | 24°58 | 17°53 | 0° 6 | 10°24 | 20°12 | 0°53 | 13° 4 | 12° 3 | 25°19 | 0°22 | T 26 |
| W27 | 8 26 47 | 7°39'02 | 25°58 | 12°28 | 24°20 | 24°37 | 17°46 | 0°12 | 10°23 | 20°14 | 0°51 | 13° 1 | 11°59 | 25°26 | 0°19 | W27 |
| T 28 | 8 30 44 | 8°39'57 | 9♓23 | 13°23 | 25°23 | 24°15 | 17°39 | 0°19 | 10°22 | 20°16 | 0°50 | 12°57 | 11°56 | 25°32 | 0°16 | T 28 |
| F 29 | 8 34 40 | 9°40'50 | 22°26 | 14°21 | 26°26 | 23°54 | 17°32 | 0°25 | 10°21 | 20°17 | 0°49 | 12°52 | 11°53 | 25°39 | 0°13 | F 29 |
| S 30 | 8 38 37 | 10°41'42 | 5♈ 8 | 15°21 | 27°28 | 23°34 | 17°25 | 0°31 | 10°20 | 20°19 | 0°47 | 12°48 | 11°50 | 25°46 | 0°11 | S 30 |
| S 31 | 8 42 33 | 11♒42'33 | 17♈32 | 16♑25 | 28♓30 | 23♋14 | 17♋18 | 0♑36 | 10♊19 | 20♓21 | 0♌46 | 12♑45 | 11♑47 | 25♉52 | 0♋ 8 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23s 0 | 1s45 | 4n39 | 20s11 | 1n29 | 14s32 | 1s35 | 23n 3 | 3n59 | 22n 9 | 0n20 | 22s29 | 0n58 | 22n 9 | 0n 0 | 5s14 | 1s13 | 24n21 | 4n36 | 22s50 | 22s48 | 22n18 | 16n27 | 7s 1 |
| S 2 | 22 55 | 3n37 | 5 6 | 20 0 | 1 48 | 14 6 | 1 32 | 23 10 | 4 1 | 22 10 | 0 20 | 22 29 | 0 58 | 22 8 | 0 0 | 5 14 | 1 13 | 24 22 | 4 36 | 22 50 | 22 49 | 22 19 | 16 27 | 7 1 |
| S 3 | 22 49 | 8 42 | 5 17 | 19 51 | 2 6 | 13 39 | 1 29 | 23 17 | 4 3 | 22 11 | 0 21 | 22 30 | 0 58 | 22 8 | 0 0 | 5 13 | 1 13 | 24 22 | 4 36 | 22 50 | 22 49 | 22 20 | 16 27 | 7 1 |
| M 4 | 22 43 | 13 21 | 5 14 | 19 44 | 2 23 | 13 12 | 1 26 | 23 23 | 4 5 | 22 13 | 0 21 | 22 30 | 0 58 | 22 8 | 0 0 | 5 13 | 1 13 | 24 23 | 4 36 | 22 50 | 22 49 | 22 21 | 16 27 | 7 1 |
| T 5 | 22 36 | 17 26 | 4 57 | 19 38 | 2 39 | 12 45 | 1 22 | 23 30 | 4 7 | 22 14 | 0 21 | 22 30 | 0 58 | 22 8 | 0 0 | 5 12 | 1 13 | 24 23 | 4 36 | 22 50 | 22 50 | 22 22 | 16 27 | 7 1 |
| W 6 | 22 29 | 20 48 | 4 28 | 19 35 | 2 53 | 12 17 | 1 19 | 23 37 | 4 9 | 22 15 | 0 21 | 22 30 | 0 58 | 22 7 | 0 0 | 5 12 | 1 13 | 24 23 | 4 37 | 22 50 | 22 50 | 22 23 | 16 27 | 7 1 |
| T 7 | 22 21 | 23 18 | 3 48 | 19 32 | 3 4 | 11 50 | 1 15 | 23 43 | 4 10 | 22 17 | 0 21 | 22 30 | 0 58 | 22 7 | 0 0 | 5 11 | 1 12 | 24 24 | 4 37 | 22 50 | 22 50 | 22 25 | 16 27 | 7 1 |
| F 8 | 22 13 | 24 48 | 2 57 | 19 32 | 3 13 | 11 21 | 1 12 | 23 50 | 4 12 | 22 18 | 0 21 | 22 30 | 0 58 | 22 7 | 0 0 | 5 11 | 1 12 | 24 24 | 4 37 | 22 50 | 22 51 | 22 26 | 16 28 | 7 1 |
| S 9 | 22 5 | 25 10 | 1 59 | 19 33 | 3 20 | 10 53 | 1 8 | 23 57 | 4 13 | 22 19 | 0 21 | 22 30 | 0 58 | 22 7 | 0 0 | 5 10 | 1 12 | 24 25 | 4 37 | 22 50 | 22 51 | 22 27 | 16 28 | 7 1 |
| S 10 | 21 56 | 24 20 | 0 54 | 19 35 | 3 24 | 10 25 | 1 4 | 24 3 | 4 15 | 22 21 | 0 21 | 22 31 | 0 58 | 22 6 | 0 0 | 5 10 | 1 12 | 24 25 | 4 37 | 22 50 | 22 51 | 22 28 | 16 28 | 7 1 |
| M11 | 21 47 | 22 18 | 0s14 | 19 38 | 3 26 | 9 56 | 1 0 | 24 10 | 4 16 | 22 22 | 0 22 | 22 31 | 0 58 | 22 6 | 0 0 | 5 9 | 1 12 | 24 25 | 4 37 | 22 50 | 22 52 | 22 29 | 16 28 | 7 0 |
| T 12 | 21 37 | 19 10 | 1 23 | 19 43 | 3 25 | 9 27 | 0 56 | 24 16 | 4 17 | 22 23 | 0 22 | 22 31 | 0 58 | 22 6 | 0 0 | 5 9 | 1 12 | 24 26 | 4 37 | 22 50 | 22 52 | 22 30 | 16 28 | 7 0 |
| W13 | 21 27 | 15 5 | 2 29 | 19 48 | 3 22 | 8 58 | 0 52 | 24 22 | 4 19 | 22 25 | 0 22 | 22 31 | 0 58 | 22 6 | 0 0 | 5 8 | 1 12 | 24 26 | 4 37 | 22 50 | 22 52 | 22 32 | 16 28 | 7 0 |
| T 14 | 21 16 | 10 15 | 3 28 | 19 55 | 3 18 | 8 29 | 0 48 | 24 29 | 4 20 | 22 26 | 0 22 | 22 31 | 0 58 | 22 5 | 0 0 | 5 7 | 1 12 | 24 27 | 4 37 | 22 50 | 22 52 | 22 33 | 16 29 | 7 0 |
| F 15 | 21 5 | 4 52 | 4 17 | 20 2 | 3 12 | 7 59 | 0 43 | 24 35 | 4 21 | 22 27 | 0 22 | 22 31 | 0 58 | 22 5 | 0 0 | 5 7 | 1 12 | 24 27 | 4 37 | 22 50 | 22 53 | 22 34 | 16 29 | 7 0 |
| S 16 | 20 54 | 0s49 | 4 53 | 20 10 | 3 6 | 7 30 | 0 39 | 24 41 | 4 21 | 22 28 | 0 22 | 22 31 | 0 58 | 22 5 | 0 0 | 5 6 | 1 12 | 24 27 | 4 38 | 22 50 | 22 53 | 22 35 | 16 29 | 7 0 |
| S 17 | 20 42 | 6 32 | 5 13 | 20 18 | 2 58 | 7 0 | 0 34 | 24 46 | 4 22 | 22 30 | 0 22 | 22 31 | 0 57 | 22 5 | 0 0 | 5 6 | 1 12 | 24 28 | 4 38 | 22 50 | 22 53 | 22 36 | 16 29 | 6 59 |
| M18 | 20 30 | 12 1 | 5 15 | 20 27 | 2 49 | 6 30 | 0 30 | 24 52 | 4 23 | 22 31 | 0 23 | 22 31 | 0 57 | 22 4 | 0 0 | 5 5 | 1 12 | 24 28 | 4 38 | 22 50 | 22 54 | 22 37 | 16 29 | 6 59 |
| T 19 | 20 17 | 16 57 | 4 59 | 20 36 | 2 39 | 6 1 | 0 25 | 24 57 | 4 23 | 22 32 | 0 23 | 22 31 | 0 57 | 22 4 | 0 0 | 5 4 | 1 12 | 24 29 | 4 38 | 22 50 | 22 54 | 22 38 | 16 30 | 6 59 |
| W20 | 20 4 | 21 0 | 4 24 | 20 45 | 2 30 | 5 31 | 0 20 | 25 3 | 4 24 | 22 33 | 0 23 | 22 31 | 0 57 | 22 4 | 0 0 | 5 4 | 1 12 | 24 29 | 4 38 | 22 50 | 22 54 | 22 39 | 16 30 | 6 59 |
| T 21 | 19 51 | 23 49 | 3 33 | 20 54 | 2 19 | 5 1 | 0 15 | 25 8 | 4 24 | 22 35 | 0 23 | 22 31 | 0 57 | 22 4 | 0 0 | 5 3 | 1 12 | 24 29 | 4 38 | 22 50 | 22 55 | 22 40 | 16 30 | 6 58 |
| F 22 | 19 37 | 25 6 | 2 28 | 21 2 | 2 9 | 4 30 | 0 10 | 25 12 | 4 24 | 22 36 | 0 23 | 22 31 | 0 57 | 22 4 | 0 0 | 5 2 | 1 12 | 24 30 | 4 38 | 22 50 | 22 55 | 22 42 | 16 31 | 6 58 |
| S 23 | 19 23 | 24 43 | 1 14 | 21 10 | 1 58 | 4 0 | 0 4 | 25 17 | 4 24 | 22 37 | 0 23 | 22 31 | 0 57 | 22 4 | 0 0 | 5 2 | 1 12 | 24 30 | 4 38 | 22 50 | 22 55 | 22 43 | 16 31 | 6 58 |
| S 24 | 19 9 | 22 40 | 0n 5 | 21 18 | 1 48 | 3 30 | 0n 1 | 25 21 | 4 24 | 22 38 | 0 23 | 22 31 | 0 57 | 22 3 | 0 0 | 5 1 | 1 12 | 24 30 | 4 38 | 22 50 | 22 55 | 22 44 | 16 31 | 6 58 |
| M25 | 18 54 | 19 13 | 1 22 | 21 26 | 1 37 | 3 0 | 0 6 | 25 26 | 4 24 | 22 39 | 0 23 | 22 31 | 0 57 | 22 3 | 0 0 | 5 0 | 1 12 | 24 31 | 4 38 | 22 50 | 22 56 | 22 45 | 16 31 | 6 57 |
| T 26 | 18 39 | 14 42 | 2 34 | 21 32 | 1 27 | 2 29 | 0 12 | 25 29 | 4 24 | 22 40 | 0 23 | 22 31 | 0 57 | 22 3 | 0 0 | 4 59 | 1 12 | 24 31 | 4 38 | 22 50 | 22 56 | 22 46 | 16 32 | 6 57 |
| W27 | 18 23 | 9 31 | 3 34 | 21 38 | 1 16 | 1 59 | 0 18 | 25 33 | 4 23 | 22 41 | 0 24 | 22 31 | 0 57 | 22 3 | 0 0 | 4 59 | 1 12 | 24 31 | 4 38 | 22 51 | 22 56 | 22 47 | 16 32 | 6 57 |
| T 28 | 18 7 | 4 2 | 4 22 | 21 43 | 1 6 | 1 29 | 0 23 | 25 37 | 4 23 | 22 42 | 0 24 | 22 31 | 0 57 | 22 3 | 0 0 | 4 58 | 1 12 | 24 32 | 4 38 | 22 51 | 22 57 | 22 48 | 16 32 | 6 56 |
| F 29 | 17 51 | 1n29 | 4 54 | 21 47 | 0 55 | 0 58 | 0 29 | 25 40 | 4 22 | 22 43 | 0 24 | 22 31 | 0 57 | 22 3 | 0 0 | 4 57 | 1 12 | 24 32 | 4 38 | 22 51 | 22 57 | 22 49 | 16 33 | 6 56 |
| S 30 | 17 35 | 6 48 | 5 11 | 21 51 | 0 45 | 0 28 | 0 35 | 25 43 | 4 22 | 22 44 | 0 24 | 22 31 | 0 57 | 22 3 | 0 0 | 4 57 | 1 12 | 24 33 | 4 38 | 22 52 | 22 57 | 22 50 | 16 33 | 6 56 |
| S 31 | 17s18 | 11n42 | 5n12 | 21s53 | 0n35 | 0n 2 | 0n41 | 25n46 | 4n21 | 22n45 | 0n24 | 22s31 | 0n57 | 22n 2 | 0n 0 | 4s56 | 1s12 | 24n33 | 4n39 | 22s52 | 22s57 | 22n51 | 16n33 | 6s55 |

Julian Day Number = 2339781.5, Delta T = 16.61 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'08, Lahiri = 19°35'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## FEBRUARY 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 8 46 30 | 12♒43'23 | 29♈41 | 17♑31 | 29♓31 | 22°R54 | 17°R12 | 0♑42 | 10°R18 | 20♓23 | 0°R45 | 12°R42 | 11♑44 | 25♉59 | 0°R 5 | M 1 |
| T 2 | 8 50 26 | 13°44'11 | 11♉39 | 18°39 | 0♈32 | 22♋36 | 17♋ 5 | 0°48 | 10♊18 | 20°25 | 0♌43 | 12°D41 | 11°40 | 26° 6 | 0♋ 3 | T 2 |
| W 3 | 8 54 23 | 14°44'57 | 23°30 | 19°49 | 1°33 | 22°18 | 16°59 | 0°54 | 10°17 | 20°27 | 0°42 | 12♑42 | 11°37 | 26°12 | 0° 0 | W 3 |
| T 4 | 8 58 20 | 15°45'42 | 5♊20 | 21° 1 | 2°33 | 22° 0 | 16°52 | 1° 0 | 10°16 | 20°29 | 0°41 | 12°43 | 11°34 | 26°19 | 29♊58 | T 4 |
| F 5 | 9 2 16 | 16°46'25 | 17°14 | 22°15 | 3°33 | 21°44 | 16°46 | 1° 5 | 10°16 | 20°31 | 0°39 | 12°45 | 11°31 | 26°26 | 29°56 | F 5 |
| S 6 | 9 6 13 | 17°47'07 | 29°16 | 23°30 | 4°32 | 21°28 | 16°40 | 1°11 | 10°15 | 20°33 | 0°38 | 12°47 | 11°28 | 26°32 | 29°53 | S 6 |
| S 7 | 9 10 9 | 18°47'47 | 11♋31 | 24°47 | 5°31 | 21°12 | 16°34 | 1°16 | 10°15 | 20°35 | 0°37 | 12°R47 | 11°24 | 26°39 | 29°51 | S 7 |
| M 8 | 9 14 6 | 19°48'26 | 24° 2 | 26° 5 | 6°29 | 20°58 | 16°29 | 1°22 | 10°14 | 20°37 | 0°35 | 12°47 | 11°21 | 26°46 | 29°49 | M 8 |
| T 9 | 9 18 2 | 20°49'03 | 6♌51 | 27°25 | 7°27 | 20°44 | 16°23 | 1°27 | 10°14 | 20°39 | 0°34 | 12°44 | 11°18 | 26°53 | 29°47 | T 9 |
| W10 | 9 21 59 | 21°49'38 | 19°58 | 28°46 | 8°24 | 20°31 | 16°18 | 1°33 | 10°13 | 20°41 | 0°33 | 12°40 | 11°15 | 26°59 | 29°45 | W10 |
| T 11 | 9 25 55 | 22°50'12 | 3♍23 | 0♒ 8 | 9°21 | 20°19 | 16°13 | 1°38 | 10°13 | 20°43 | 0°32 | 12°34 | 11°12 | 27° 6 | 29°43 | T 11 |
| F 12 | 9 29 52 | 23°50'45 | 17° 4 | 1°32 | 10°17 | 20° 7 | 16° 7 | 1°43 | 10°13 | 20°45 | 0°30 | 12°27 | 11° 9 | 27°13 | 29°41 | F 12 |
| S 13 | 9 33 49 | 24°51'16 | 0♎57 | 2°56 | 11°12 | 19°57 | 16° 3 | 1°48 | 10°13 | 20°47 | 0°29 | 12°20 | 11° 5 | 27°19 | 29°40 | S 13 |
| S 14 | 9 37 45 | 25°51'45 | 14°59 | 4°22 | 12° 7 | 19°47 | 15°58 | 1°53 | 10°12 | 20°49 | 0°28 | 12°14 | 11° 2 | 27°26 | 29°38 | S 14 |
| M15 | 9 41 42 | 26°52'14 | 29° 7 | 5°49 | 13° 1 | 19°38 | 15°53 | 1°58 | 10°12 | 20°51 | 0°27 | 12° 9 | 10°59 | 27°33 | 29°37 | M15 |
| T 16 | 9 45 38 | 27°52'40 | 13♏17 | 7°17 | 13°55 | 19°29 | 15°49 | 2° 3 | 10°D12 | 20°53 | 0°26 | 12° 6 | 10°56 | 27°39 | 29°35 | T 16 |
| W17 | 9 49 35 | 28°53'06 | 27°26 | 8°46 | 14°48 | 19°22 | 15°45 | 2° 8 | 10°12 | 20°55 | 0°24 | 12°D 5 | 10°53 | 27°46 | 29°34 | W17 |
| T 18 | 9 53 31 | 29°53'31 | 11♐33 | 10°16 | 15°40 | 19°15 | 15°41 | 2°13 | 10°12 | 20°58 | 0°23 | 12° 5 | 10°50 | 27°53 | 29°33 | T 18 |
| F 19 | 9 57 28 | 0♓53'54 | 25°37 | 11°47 | 16°31 | 19° 9 | 15°37 | 2°18 | 10°13 | 21° 0 | 0°22 | 12° 6 | 10°46 | 27°59 | 29°31 | F 19 |
| S 20 | 10 1 24 | 1°54'15 | 9♑37 | 13°20 | 17°22 | 19° 4 | 15°33 | 2°23 | 10°13 | 21° 2 | 0°21 | 12°R 7 | 10°43 | 28° 6 | 29°30 | S 20 |
| S 21 | 10 5 21 | 2°54'36 | 23°30 | 14°53 | 18°12 | 18°59 | 15°30 | 2°27 | 10°13 | 21° 4 | 0°20 | 12° 6 | 10°40 | 28°13 | 29°29 | S 21 |
| M22 | 10 9 18 | 3°54'54 | 7♒17 | 16°27 | 19° 1 | 18°56 | 15°26 | 2°32 | 10°13 | 21° 6 | 0°19 | 12° 4 | 10°37 | 28°19 | 29°28 | M22 |
| T 23 | 10 13 14 | 4°55'11 | 20°53 | 18° 2 | 19°49 | 18°53 | 15°23 | 2°36 | 10°14 | 21° 8 | 0°18 | 11°58 | 10°34 | 28°26 | 29°28 | T 23 |
| W24 | 10 17 11 | 5°55'26 | 4♓18 | 19°39 | 20°36 | 18°51 | 15°20 | 2°41 | 10°14 | 21°11 | 0°17 | 11°51 | 10°30 | 28°33 | 29°27 | W24 |
| T 25 | 10 21 7 | 6°55'39 | 17°28 | 21°16 | 21°23 | 18°50 | 15°17 | 2°45 | 10°14 | 21°13 | 0°15 | 11°41 | 10°27 | 28°39 | 29°26 | T 25 |
| F 26 | 10 25 4 | 7°55'51 | 0♈22 | 22°54 | 22° 8 | 18°D49 | 15°15 | 2°49 | 10°15 | 21°15 | 0°14 | 11°31 | 10°24 | 28°46 | 29°26 | F 26 |
| S 27 | 10 29 0 | 8°56'00 | 12°59 | 24°34 | 22°53 | 18°49 | 15°12 | 2°53 | 10°15 | 21°17 | 0°13 | 11°20 | 10°21 | 28°53 | 29°25 | S 27 |
| S 28 | 10 32 57 | 9♓56'08 | 25♈21 | 26♒14 | 23♈36 | 18♋50 | 15♋10 | 2♑57 | 10♊16 | 21♓20 | 0♌12 | 11♑11 | 10♑18 | 28♉59 | 29♊25 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 17s 1 | 16n 3 | 5n 0 | 21s55 | 0n26 | 0n32 | 0n47 | 25n48 | 4n20 | 22n46 | 0n24 | 22s31 | 0n57 | 22n 2 | 0n 0 | 4s55 | 1s12 | 24n33 | 4n39 | 22s52 | 22s58 | 22n52 | 16n34 | 6s55 |
| T 2 | 16 44 | 19 42 | 4 34 | 21 55 | 0 16 | 1 2 | 0 54 | 25 50 | 4 19 | 22 47 | 0 24 | 22 31 | 0 57 | 22 2 | 0 0 | 4 54 | 1 12 | 24 34 | 4 39 | 22 52 | 22 58 | 22 53 | 16 34 | 6 55 |
| W 3 | 16 26 | 22 31 | 3 58 | 21 54 | 0 7 | 1 32 | 1 0 | 25 53 | 4 18 | 22 48 | 0 24 | 22 31 | 0 57 | 22 2 | 0 0 | 4 54 | 1 12 | 24 34 | 4 39 | 22 52 | 22 58 | 22 54 | 16 34 | 6 54 |
| T 4 | 16 8 | 24 21 | 3 11 | 21 52 | 0s 2 | 2 2 | 1 7 | 25 54 | 4 17 | 22 49 | 0 24 | 22 31 | 0 57 | 22 2 | 0 0 | 4 53 | 1 12 | 24 34 | 4 39 | 22 52 | 22 59 | 22 55 | 16 35 | 6 54 |
| F 5 | 15 50 | 25 6 | 2 15 | 21 49 | 0 11 | 2 32 | 1 13 | 25 56 | 4 16 | 22 50 | 0 24 | 22 31 | 0 57 | 22 2 | 0 0 | 4 52 | 1 12 | 24 35 | 4 39 | 22 52 | 22 59 | 22 56 | 16 35 | 6 54 |
| S 6 | 15 32 | 24 42 | 1 13 | 21 45 | 0 20 | 3 1 | 1 20 | 25 57 | 4 15 | 22 51 | 0 24 | 22 31 | 0 57 | 22 2 | 0 0 | 4 51 | 1 12 | 24 35 | 4 39 | 22 52 | 22 59 | 22 57 | 16 36 | 6 53 |
| S 7 | 15 13 | 23 6 | 0 7 | 21 40 | 0 28 | 3 31 | 1 26 | 25 59 | 4 14 | 22 51 | 0 25 | 22 31 | 0 57 | 22 2 | 0 0 | 4 50 | 1 12 | 24 35 | 4 39 | 22 52 | 22 59 | 22 58 | 16 36 | 6 53 |
| M 8 | 14 54 | 20 20 | 1s 1 | 21 33 | 0 36 | 4 0 | 1 33 | 26 0 | 4 12 | 22 52 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 50 | 1 12 | 24 36 | 4 39 | 22 52 | 23 0 | 22 59 | 16 36 | 6 52 |
| T 9 | 14 35 | 16 32 | 2 7 | 21 25 | 0 44 | 4 29 | 1 40 | 26 0 | 4 11 | 22 53 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 49 | 1 12 | 24 36 | 4 39 | 22 52 | 23 0 | 23 0 | 16 37 | 6 52 |
| W10 | 14 15 | 11 52 | 3 8 | 21 16 | 0 51 | 4 58 | 1 47 | 26 1 | 4 9 | 22 54 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 48 | 1 12 | 24 36 | 4 39 | 22 53 | 23 0 | 23 1 | 16 37 | 6 52 |
| T 11 | 13 56 | 6 33 | 4 0 | 21 6 | 0 58 | 5 27 | 1 54 | 26 1 | 4 8 | 22 54 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 47 | 1 12 | 24 36 | 4 39 | 22 53 | 23 0 | 23 2 | 16 38 | 6 51 |
| F 12 | 13 36 | 0 50 | 4 39 | 20 54 | 1 5 | 5 56 | 2 1 | 26 2 | 4 6 | 22 55 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 46 | 1 12 | 24 37 | 4 39 | 22 54 | 23 1 | 23 3 | 16 38 | 6 51 |
| S 13 | 13 16 | 5s 0 | 5 3 | 20 42 | 1 11 | 6 24 | 2 8 | 26 2 | 4 5 | 22 56 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 45 | 1 12 | 24 37 | 4 39 | 22 54 | 23 1 | 23 4 | 16 39 | 6 50 |
| S 14 | 12 55 | 10 39 | 5 8 | 20 27 | 1 18 | 6 53 | 2 15 | 26 2 | 4 3 | 22 56 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 45 | 1 12 | 24 37 | 4 39 | 22 55 | 23 1 | 23 5 | 16 39 | 6 50 |
| M15 | 12 35 | 15 47 | 4 56 | 20 12 | 1 24 | 7 20 | 2 23 | 26 1 | 4 1 | 22 57 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 44 | 1 12 | 24 38 | 4 39 | 22 55 | 23 1 | 23 6 | 16 39 | 6 49 |
| T 16 | 12 14 | 20 3 | 4 25 | 19 55 | 1 29 | 7 48 | 2 30 | 26 1 | 4 0 | 22 58 | 0 25 | 22 31 | 0 57 | 22 2 | 0 1 | 4 43 | 1 12 | 24 38 | 4 39 | 22 56 | 23 2 | 23 7 | 16 40 | 6 49 |
| W17 | 11 53 | 23 9 | 3 37 | 19 37 | 1 34 | 8 16 | 2 38 | 26 0 | 3 58 | 22 58 | 0 25 | 22 30 | 0 57 | 22 2 | 0 1 | 4 42 | 1 12 | 24 38 | 4 39 | 22 56 | 23 2 | 23 7 | 16 40 | 6 48 |
| T 18 | 11 32 | 24 48 | 2 37 | 19 17 | 1 39 | 8 43 | 2 45 | 26 0 | 3 56 | 22 59 | 0 25 | 22 30 | 0 57 | 22 2 | 0 1 | 4 41 | 1 12 | 24 38 | 4 39 | 22 56 | 23 2 | 23 8 | 16 41 | 6 48 |
| F 19 | 11 10 | 24 52 | 1 28 | 18 57 | 1 44 | 9 10 | 2 53 | 25 59 | 3 54 | 22 59 | 0 25 | 22 30 | 0 57 | 22 2 | 0 1 | 4 40 | 1 12 | 24 39 | 4 39 | 22 56 | 23 3 | 23 9 | 16 41 | 6 47 |
| S 20 | 10 49 | 23 21 | 0 14 | 18 35 | 1 48 | 9 36 | 3 0 | 25 58 | 3 53 | 23 0 | 0 25 | 22 30 | 0 57 | 22 2 | 0 1 | 4 40 | 1 12 | 24 39 | 4 39 | 22 56 | 23 3 | 23 10 | 16 42 | 6 47 |
| S 21 | 10 27 | 20 26 | 1n 1 | 18 11 | 1 52 | 10 3 | 3 8 | 25 56 | 3 51 | 23 0 | 0 26 | 22 30 | 0 57 | 22 2 | 0 1 | 4 39 | 1 12 | 24 39 | 4 39 | 22 56 | 23 3 | 23 11 | 16 42 | 6 47 |
| M22 | 10 5 | 16 22 | 2 11 | 17 46 | 1 56 | 10 28 | 3 16 | 25 55 | 3 49 | 23 1 | 0 26 | 22 30 | 0 57 | 22 2 | 0 1 | 4 38 | 1 12 | 24 39 | 4 39 | 22 56 | 23 3 | 23 12 | 16 43 | 6 46 |
| T 23 | 9 43 | 11 31 | 3 13 | 17 20 | 1 59 | 10 54 | 3 23 | 25 54 | 3 47 | 23 1 | 0 26 | 22 30 | 0 57 | 22 2 | 0 1 | 4 37 | 1 12 | 24 40 | 4 39 | 22 56 | 23 4 | 23 13 | 16 43 | 6 46 |
| W24 | 9 21 | 6 11 | 4 3 | 16 52 | 2 2 | 11 19 | 3 31 | 25 52 | 3 45 | 23 1 | 0 26 | 22 30 | 0 57 | 22 2 | 0 1 | 4 36 | 1 12 | 24 40 | 4 39 | 22 57 | 23 4 | 23 14 | 16 44 | 6 45 |
| T 25 | 8 59 | 0 41 | 4 38 | 16 24 | 2 4 | 11 44 | 3 39 | 25 50 | 3 43 | 23 2 | 0 26 | 22 30 | 0 57 | 22 2 | 0 1 | 4 35 | 1 12 | 24 40 | 4 39 | 22 58 | 23 4 | 23 15 | 16 44 | 6 45 |
| F 26 | 8 37 | 4n43 | 4 59 | 15 53 | 2 6 | 12 9 | 3 47 | 25 49 | 3 41 | 23 2 | 0 26 | 22 30 | 0 57 | 22 2 | 0 1 | 4 34 | 1 12 | 24 40 | 4 39 | 22 59 | 23 4 | 23 15 | 16 45 | 6 44 |
| S 27 | 8 14 | 9 49 | 5 5 | 15 22 | 2 8 | 12 33 | 3 55 | 25 47 | 3 40 | 23 2 | 0 26 | 22 30 | 0 57 | 22 2 | 0 1 | 4 33 | 1 12 | 24 41 | 4 39 | 23 0 | 23 5 | 23 16 | 16 45 | 6 44 |
| S 28 | 7s51 | 14n24 | 4n56 | 14s49 | 2s 9 | 12n56 | 4n 3 | 25n45 | 3n38 | 23n 3 | 0n26 | 22s29 | 0n57 | 22n 2 | 0n 1 | 4s33 | 1s12 | 24n41 | 4n39 | 23s 0 | 23s 5 | 23n17 | 16n46 | 6s43 |

Julian Day Number = 2339812.5, Delta T = 16.58 sec
Ecliptic obliquity = 23°28'47, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'12, Lahiri = 19°35'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## MARCH 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 10 36 53 | 10♓56'13 | 7♉29 | 27♒56 | 24♈19 | 18♋52 | 15°R 8 | 3♑ 1 | 10♊17 | 21♓22 | 0°R11 | 11°R 3 | 10♑15 | 29♉ 6 | 29°R24 | M 1 |
| T 2 | 10 40 50 | 11°56'17 | 19°27 | 29°38 | 25° 0 | 18°54 | 15♋ 7 | 3° 5 | 10°17 | 21°24 | 0♌10 | 10♑58 | 10°11 | 29°13 | 29♊24 | T 2 |
| W 3 | 10 44 47 | 12°56'18 | 1♊18 | 1♓22 | 25°40 | 18°58 | 15° 5 | 3° 9 | 10°18 | 21°26 | 0° 9 | 10°56 | 10° 8 | 29°19 | 29°24 | W 3 |
| T 4 | 10 48 43 | 13°56'17 | 13° 7 | 3° 7 | 26°19 | 19° 1 | 15° 4 | 3°13 | 10°19 | 21°29 | 0° 8 | 10°D55 | 10° 5 | 29°26 | 29°D24 | T 4 |
| F 5 | 10 52 40 | 14°56'14 | 25° 0 | 4°53 | 26°56 | 19° 6 | 15° 2 | 3°17 | 10°20 | 21°31 | 0° 8 | 10°55 | 10° 2 | 29°33 | 29°24 | F 5 |
| S 6 | 10 56 36 | 15°56'09 | 7♋ 2 | 6°40 | 27°33 | 19°11 | 15° 1 | 3°20 | 10°21 | 21°33 | 0° 7 | 10°R56 | 9°59 | 29°40 | 29°24 | S 6 |
| S 7 | 11 0 33 | 16°56'01 | 19°18 | 8°28 | 28° 8 | 19°17 | 15° 1 | 3°24 | 10°22 | 21°35 | 0° 6 | 10°55 | 9°56 | 29°46 | 29°25 | S 7 |
| M 8 | 11 4 29 | 17°55'51 | 1♌53 | 10°18 | 28°41 | 19°23 | 15° 0 | 3°27 | 10°23 | 21°38 | 0° 5 | 10°53 | 9°52 | 29°53 | 29°25 | M 8 |
| T 9 | 11 8 26 | 18°55'40 | 14°51 | 12° 8 | 29°13 | 19°30 | 15° 0 | 3°31 | 10°24 | 21°40 | 0° 4 | 10°49 | 9°49 | 29°59 | 29°25 | T 9 |
| W10 | 11 12 22 | 19°55'25 | 28°13 | 14° 0 | 29°44 | 19°38 | 14°59 | 3°34 | 10°25 | 21°42 | 0° 3 | 10°42 | 9°46 | 0♊ 6 | 29°26 | W10 |
| T 11 | 11 16 19 | 20°55'09 | 11♍58 | 15°53 | 0♉12 | 19°47 | 14°D59 | 3°37 | 10°26 | 21°44 | 0° 3 | 10°32 | 9°43 | 0°13 | 29°27 | T 11 |
| F 12 | 11 20 16 | 21°54'51 | 26° 3 | 17°47 | 0°40 | 19°55 | 14°59 | 3°40 | 10°27 | 21°47 | 0° 2 | 10°21 | 9°40 | 0°20 | 29°27 | F 12 |
| S 13 | 11 24 12 | 22°54'30 | 10♎25 | 19°42 | 1° 5 | 20° 5 | 15° 0 | 3°43 | 10°29 | 21°49 | 0° 1 | 10°10 | 9°36 | 0°26 | 29°28 | S 13 |
| S 14 | 11 28 9 | 23°54'08 | 24°56 | 21°39 | 1°29 | 20°15 | 15° 0 | 3°46 | 10°30 | 21°51 | 0° 0 | 10° 0 | 9°33 | 0°33 | 29°29 | S 14 |
| M15 | 11 32 5 | 24°53'44 | 9♏29 | 23°36 | 1°51 | 20°26 | 15° 1 | 3°49 | 10°31 | 21°53 | 29♋59 | 9°51 | 9°30 | 0°40 | 29°30 | M15 |
| T 16 | 11 36 2 | 25°53'18 | 23°59 | 25°34 | 2°11 | 20°37 | 15° 2 | 3°51 | 10°33 | 21°56 | 29°59 | 9°45 | 9°27 | 0°46 | 29°31 | T 16 |
| W17 | 11 39 58 | 26°52'51 | 8♐20 | 27°34 | 2°29 | 20°49 | 15° 3 | 3°54 | 10°34 | 21°58 | 29°58 | 9°42 | 9°24 | 0°53 | 29°32 | W17 |
| T 18 | 11 43 55 | 27°52'22 | 22°30 | 29°34 | 2°45 | 21° 1 | 15° 5 | 3°57 | 10°36 | 22° 0 | 29°58 | 9°41 | 9°21 | 1° 0 | 29°33 | T 18 |
| F 19 | 11 47 51 | 28°51'51 | 6♑28 | 1♈35 | 2°59 | 21°14 | 15° 6 | 3°59 | 10°37 | 22° 3 | 29°57 | 9°41 | 9°17 | 1° 6 | 29°35 | F 19 |
| S 20 | 11 51 48 | 29°51'18 | 20°13 | 3°36 | 3°11 | 21°27 | 15° 8 | 4° 1 | 10°39 | 22° 5 | 29°56 | 9°41 | 9°14 | 1°13 | 29°36 | S 20 |
| S 21 | 11 55 45 | 0♈50'44 | 3♒47 | 5°38 | 3°21 | 21°41 | 15°10 | 4° 4 | 10°41 | 22° 7 | 29°56 | 9°39 | 9°11 | 1°20 | 29°38 | S 21 |
| M22 | 11 59 41 | 1°50'07 | 17°10 | 7°40 | 3°29 | 21°55 | 15°12 | 4° 6 | 10°42 | 22° 9 | 29°55 | 9°35 | 9° 8 | 1°26 | 29°39 | M22 |
| T 23 | 12 3 38 | 2°49'29 | 0♓23 | 9°42 | 3°34 | 22°10 | 15°14 | 4° 8 | 10°44 | 22°12 | 29°55 | 9°27 | 9° 5 | 1°33 | 29°41 | T 23 |
| W24 | 12 7 34 | 3°48'49 | 13°24 | 11°44 | 3°37 | 22°25 | 15°16 | 4°10 | 10°46 | 22°14 | 29°54 | 9°17 | 9° 1 | 1°40 | 29°43 | W24 |
| T 25 | 12 11 31 | 4°48'07 | 26°14 | 13°45 | 3°R38 | 22°40 | 15°19 | 4°12 | 10°48 | 22°16 | 29°54 | 9° 5 | 8°58 | 1°46 | 29°44 | T 25 |
| F 26 | 12 15 27 | 5°47'23 | 8♈52 | 15°46 | 3°36 | 22°57 | 15°22 | 4°14 | 10°50 | 22°18 | 29°53 | 8°51 | 8°55 | 1°53 | 29°46 | F 26 |
| S 27 | 12 19 24 | 6°46'36 | 21°18 | 17°45 | 3°31 | 23°13 | 15°25 | 4°15 | 10°52 | 22°21 | 29°53 | 8°37 | 8°52 | 2° 0 | 29°48 | S 27 |
| S 28 | 12 23 20 | 7°45'48 | 3♉31 | 19°43 | 3°25 | 23°30 | 15°28 | 4°17 | 10°54 | 22°23 | 29°53 | 8°24 | 8°49 | 2° 6 | 29°51 | S 28 |
| M29 | 12 27 17 | 8°44'58 | 15°34 | 21°38 | 3°15 | 23°48 | 15°31 | 4°18 | 10°56 | 22°25 | 29°52 | 8°14 | 8°46 | 2°13 | 29°53 | M29 |
| T 30 | 12 31 13 | 9°44'05 | 27°29 | 23°31 | 3° 4 | 24° 5 | 15°35 | 4°20 | 10°58 | 22°27 | 29°52 | 8° 6 | 8°42 | 2°20 | 29°55 | T 30 |
| W31 | 12 35 10 | 10♈43'10 | 9♊18 | 25♈22 | 2♉50 | 24♋24 | 15♋39 | 4♑21 | 11♊ 0 | 22♓29 | 29♋52 | 8♑ 1 | 8♑39 | 2♊26 | 29♊57 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 7s29 | 18n20 | 4n33 | 14s14 | 2s10 | 13n19 | 4n11 | 25n43 | 3n36 | 23n 3 | 0n26 | 22s29 | 0n57 | 22n 2 | 0n 1 | 4s32 | 1s12 | 24n41 | 4n39 | 23s 1 | 23s 5 | 23n18 | 16n46 | 6s43 |
| T 2 | 7 6 | 21 27 | 3 59 | 13 39 | 2 10 | 13 42 | 4 19 | 25 40 | 3 34 | 23 3 | 0 26 | 22 29 | 0 57 | 22 2 | 0 1 | 4 31 | 1 12 | 24 41 | 4 39 | 23 2 | 23 5 | 23 19 | 16 47 | 6 42 |
| W 3 | 6 43 | 23 38 | 3 15 | 13 2 | 2 10 | 14 4 | 4 27 | 25 38 | 3 32 | 23 3 | 0 26 | 22 29 | 0 57 | 22 3 | 0 1 | 4 30 | 1 12 | 24 41 | 4 39 | 23 2 | 23 6 | 23 20 | 16 47 | 6 42 |
| T 4 | 6 20 | 24 46 | 2 23 | 12 23 | 2 9 | 14 26 | 4 35 | 25 35 | 3 30 | 23 4 | 0 26 | 22 29 | 0 57 | 22 3 | 0 1 | 4 29 | 1 12 | 24 42 | 4 39 | 23 2 | 23 6 | 23 20 | 16 48 | 6 41 |
| F 5 | 5 57 | 24 47 | 1 24 | 11 44 | 2 9 | 14 47 | 4 43 | 25 33 | 3 28 | 23 4 | 0 26 | 22 29 | 0 57 | 22 3 | 0 1 | 4 28 | 1 12 | 24 42 | 4 39 | 23 2 | 23 6 | 23 21 | 16 48 | 6 41 |
| S 6 | 5 33 | 23 38 | 0 21 | 11 3 | 2 7 | 15 8 | 4 51 | 25 30 | 3 26 | 23 4 | 0 26 | 22 29 | 0 57 | 22 3 | 0 1 | 4 27 | 1 12 | 24 42 | 4 39 | 23 2 | 23 6 | 23 22 | 16 49 | 6 40 |
| S 7 | 5 10 | 21 21 | 0s45 | 10 20 | 2 5 | 15 28 | 4 59 | 25 28 | 3 24 | 23 4 | 0 26 | 22 29 | 0 57 | 22 3 | 0 1 | 4 26 | 1 12 | 24 42 | 4 39 | 23 2 | 23 6 | 23 23 | 16 49 | 6 40 |
| M 8 | 4 47 | 18 0 | 1 49 | 9 37 | 2 3 | 15 47 | 5 6 | 25 25 | 3 22 | 23 4 | 0 26 | 22 29 | 0 58 | 22 3 | 0 1 | 4 25 | 1 12 | 24 42 | 4 39 | 23 2 | 23 7 | 23 24 | 16 50 | 6 39 |
| T 9 | 4 23 | 13 42 | 2 50 | 8 52 | 2 0 | 16 6 | 5 14 | 25 22 | 3 20 | 23 4 | 0 26 | 22 28 | 0 58 | 22 3 | 0 1 | 4 25 | 1 12 | 24 43 | 4 39 | 23 2 | 23 7 | 23 24 | 16 50 | 6 38 |
| W10 | 4 0 | 8 37 | 3 43 | 8 6 | 1 56 | 16 25 | 5 22 | 25 19 | 3 19 | 23 4 | 0 26 | 22 28 | 0 58 | 22 4 | 0 1 | 4 24 | 1 12 | 24 43 | 4 39 | 23 3 | 23 7 | 23 25 | 16 51 | 6 38 |
| T 11 | 3 36 | 3 0 | 4 25 | 7 18 | 1 53 | 16 42 | 5 30 | 25 16 | 3 17 | 23 4 | 0 26 | 22 28 | 0 58 | 22 4 | 0 1 | 4 23 | 1 12 | 24 43 | 4 39 | 23 4 | 23 7 | 23 26 | 16 51 | 6 37 |
| F 12 | 3 13 | 2s54 | 4 52 | 6 30 | 1 48 | 16 59 | 5 37 | 25 13 | 3 15 | 23 4 | 0 26 | 22 28 | 0 58 | 22 4 | 0 1 | 4 22 | 1 12 | 24 43 | 4 39 | 23 4 | 23 8 | 23 27 | 16 52 | 6 37 |
| S 13 | 2 49 | 8 45 | 5 2 | 5 40 | 1 43 | 17 15 | 5 45 | 25 9 | 3 13 | 23 4 | 0 26 | 22 28 | 0 58 | 22 4 | 0 1 | 4 21 | 1 12 | 24 43 | 4 39 | 23 5 | 23 8 | 23 27 | 16 52 | 6 36 |
| S 14 | 2 26 | 14 11 | 4 52 | 4 49 | 1 38 | 17 31 | 5 53 | 25 6 | 3 11 | 23 4 | 0 27 | 22 28 | 0 58 | 22 4 | 0 1 | 4 20 | 1 12 | 24 43 | 4 39 | 23 6 | 23 8 | 23 28 | 16 53 | 6 36 |
| M15 | 2 2 | 18 49 | 4 23 | 3 57 | 1 31 | 17 45 | 6 0 | 25 2 | 3 9 | 23 4 | 0 27 | 22 28 | 0 58 | 22 5 | 0 1 | 4 19 | 1 12 | 24 43 | 4 39 | 23 7 | 23 8 | 23 29 | 16 53 | 6 35 |
| T 16 | 1 38 | 22 18 | 3 37 | 3 4 | 1 25 | 17 59 | 6 7 | 24 59 | 3 7 | 23 4 | 0 27 | 22 28 | 0 58 | 22 5 | 0 1 | 4 18 | 1 12 | 24 43 | 4 39 | 23 7 | 23 9 | 23 30 | 16 54 | 6 35 |
| W17 | 1 15 | 24 20 | 2 38 | 2 10 | 1 18 | 18 12 | 6 14 | 24 55 | 3 6 | 23 4 | 0 27 | 22 28 | 0 58 | 22 5 | 0 1 | 4 17 | 1 12 | 24 44 | 4 39 | 23 7 | 23 9 | 23 30 | 16 54 | 6 34 |
| T 18 | 0 51 | 24 46 | 1 30 | 1 15 | 1 10 | 18 24 | 6 21 | 24 52 | 3 4 | 23 4 | 0 27 | 22 28 | 0 58 | 22 5 | 0 1 | 4 16 | 1 12 | 24 44 | 4 39 | 23 8 | 23 9 | 23 31 | 16 55 | 6 34 |
| F 19 | 0 27 | 23 36 | 0 17 | 0 19 | 1 2 | 18 35 | 6 28 | 24 48 | 3 2 | 23 4 | 0 27 | 22 27 | 0 58 | 22 5 | 0 1 | 4 16 | 1 12 | 24 44 | 4 39 | 23 8 | 23 9 | 23 32 | 16 55 | 6 33 |
| S 20 | 0 3 | 21 2 | 0n56 | 0n37 | 0 53 | 18 46 | 6 34 | 24 44 | 3 0 | 23 4 | 0 27 | 22 27 | 0 58 | 22 6 | 0 1 | 4 15 | 1 12 | 24 44 | 4 39 | 23 8 | 23 9 | 23 33 | 16 56 | 6 33 |
| S 21 | 0n20 | 17 20 | 2 4 | 1 34 | 0 44 | 18 55 | 6 40 | 24 40 | 2 59 | 23 4 | 0 27 | 22 27 | 0 58 | 22 6 | 0 1 | 4 14 | 1 12 | 24 44 | 4 39 | 23 8 | 23 10 | 23 33 | 16 56 | 6 32 |
| M22 | 0 44 | 12 47 | 3 4 | 2 32 | 0 34 | 19 3 | 6 46 | 24 36 | 2 57 | 23 3 | 0 27 | 22 27 | 0 58 | 22 6 | 0 1 | 4 13 | 1 12 | 24 44 | 4 38 | 23 8 | 23 10 | 23 34 | 16 57 | 6 32 |
| T 23 | 1 8 | 7 43 | 3 54 | 3 29 | 0 24 | 19 10 | 6 52 | 24 32 | 2 55 | 23 3 | 0 27 | 22 27 | 0 58 | 22 6 | 0 1 | 4 12 | 1 12 | 24 44 | 4 38 | 23 9 | 23 10 | 23 35 | 16 57 | 6 31 |
| W24 | 1 31 | 2 22 | 4 30 | 4 27 | 0 13 | 19 16 | 6 57 | 24 28 | 2 53 | 23 3 | 0 27 | 22 27 | 0 58 | 22 7 | 0 1 | 4 11 | 1 12 | 24 44 | 4 38 | 23 9 | 23 10 | 23 35 | 16 58 | 6 31 |
| T 25 | 1 55 | 2n58 | 4 52 | 5 24 | 0 2 | 19 21 | 7 2 | 24 23 | 2 52 | 23 3 | 0 27 | 22 27 | 0 58 | 22 7 | 0 1 | 4 10 | 1 12 | 24 44 | 4 38 | 23 10 | 23 11 | 23 36 | 16 59 | 6 30 |
| F 26 | 2 18 | 8 7 | 5 0 | 6 21 | 0n 9 | 19 25 | 7 7 | 24 19 | 2 50 | 23 2 | 0 27 | 22 27 | 0 58 | 22 7 | 0 1 | 4 9 | 1 12 | 24 44 | 4 38 | 23 11 | 23 11 | 23 37 | 16 59 | 6 30 |
| S 27 | 2 42 | 12 50 | 4 53 | 7 17 | 0 20 | 19 27 | 7 11 | 24 14 | 2 48 | 23 2 | 0 27 | 22 27 | 0 58 | 22 8 | 0 1 | 4 9 | 1 12 | 24 44 | 4 38 | 23 12 | 23 11 | 23 37 | 17 0 | 6 29 |
| S 28 | 3 5 | 16 58 | 4 32 | 8 13 | 0 32 | 19 28 | 7 15 | 24 10 | 2 47 | 23 2 | 0 27 | 22 27 | 0 58 | 22 8 | 0 1 | 4 8 | 1 12 | 24 44 | 4 38 | 23 13 | 23 11 | 23 38 | 17 0 | 6 29 |
| M29 | 3 28 | 20 21 | 3 59 | 9 7 | 0 44 | 19 28 | 7 18 | 24 5 | 2 45 | 23 1 | 0 27 | 22 27 | 0 58 | 22 8 | 0 1 | 4 7 | 1 12 | 24 44 | 4 38 | 23 13 | 23 11 | 23 39 | 17 1 | 6 28 |
| T 30 | 3 52 | 22 49 | 3 17 | 10 0 | 0 55 | 19 26 | 7 20 | 24 0 | 2 43 | 23 1 | 0 27 | 22 27 | 0 58 | 22 8 | 0 1 | 4 6 | 1 12 | 24 44 | 4 38 | 23 14 | 23 12 | 23 39 | 17 1 | 6 28 |
| W31 | 4n15 | 24n17 | 2n25 | 10n52 | 1n 7 | 19n23 | 7n23 | 23n56 | 2n42 | 23n 1 | 0n27 | 22s26 | 0n58 | 22n 9 | 0n 1 | 4s 5 | 1s12 | 24n44 | 4n38 | 23s14 | 23s12 | 23n40 | 17n 2 | 6s27 |

Julian Day Number = 2339840.5, Delta T = 16.55 sec
Ecliptic obliquity = 23°28'47, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'16, Lahiri = 19°35'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## APRIL 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 39 7 | 11♈42'13 | 21♊ 6 | 27♈10 | 2°R33 | 24♋42 | 15♋43 | 4♏22 | 11♊ 2 | 22♓32 | 29°R51 | 7°R58 | 8♏36 | 2♊33 | 29♊59 | T 1 |
| F 2 | 12 43 3 | 12°41'13 | 2♋57 | 28°54 | 2♉14 | 25° 1 | 15°47 | 4°23 | 11° 4 | 22°34 | 29♋51 | 7♏58 | 8°33 | 2°40 | 0♋ 2 | F 2 |
| S 3 | 12 47 0 | 13°40'12 | 14°57 | 0♉34 | 1°52 | 25°20 | 15°51 | 4°24 | 11° 6 | 22°36 | 29°51 | 7°57 | 8°30 | 2°46 | 0° 5 | S 3 |
| S 4 | 12 50 56 | 14°39'08 | 27°12 | 2°10 | 1°29 | 25°40 | 15°55 | 4°25 | 11° 9 | 22°38 | 29°51 | 7°57 | 8°27 | 2°53 | 0° 8 | S 4 |
| M 5 | 12 54 53 | 15°38'01 | 9♌46 | 3°41 | 1° 3 | 26° 0 | 16° 0 | 4°26 | 11°11 | 22°40 | 29°50 | 7°55 | 8°23 | 3° 0 | 0°10 | M 5 |
| T 6 | 12 58 49 | 16°36'53 | 22°45 | 5° 8 | 0°35 | 26°21 | 16° 5 | 4°27 | 11°13 | 22°42 | 29°50 | 7°51 | 8°20 | 3° 6 | 0°13 | T 6 |
| W 7 | 13 2 46 | 17°35'42 | 6♍10 | 6°30 | 0° 5 | 26°41 | 16° 9 | 4°28 | 11°16 | 22°44 | 29°50 | 7°44 | 8°17 | 3°13 | 0°16 | W 7 |
| T 8 | 13 6 42 | 18°34'28 | 20° 4 | 7°47 | 29♈34 | 27° 3 | 16°14 | 4°28 | 11°18 | 22°46 | 29°50 | 7°35 | 8°14 | 3°20 | 0°19 | T 8 |
| F 9 | 13 10 39 | 19°33'13 | 4♎24 | 8°59 | 29° 1 | 27°24 | 16°20 | 4°28 | 11°21 | 22°49 | 29°50 | 7°25 | 8°11 | 3°26 | 0°22 | F 9 |
| S 10 | 13 14 36 | 20°31'55 | 19° 5 | 10° 5 | 28°26 | 27°46 | 16°25 | 4°29 | 11°23 | 22°51 | 29°50 | 7°13 | 8° 7 | 3°33 | 0°25 | S 10 |
| S 11 | 13 18 32 | 21°30'36 | 3♏58 | 11° 6 | 27°51 | 28° 8 | 16°31 | 4°29 | 11°26 | 22°53 | 29°50 | 7° 3 | 8° 4 | 3°40 | 0°29 | S 11 |
| M12 | 13 22 29 | 22°29'15 | 18°56 | 12° 0 | 27°14 | 28°30 | 16°36 | 4°29 | 11°28 | 22°55 | 29°D50 | 6°54 | 8° 1 | 3°46 | 0°32 | M12 |
| T 13 | 13 26 25 | 23°27'52 | 3♐50 | 12°49 | 26°37 | 28°53 | 16°42 | 4°R29 | 11°31 | 22°57 | 29°50 | 6°48 | 7°58 | 3°53 | 0°35 | T 13 |
| W14 | 13 30 22 | 24°26'27 | 18°31 | 13°33 | 25°59 | 29°16 | 16°48 | 4°29 | 11°33 | 22°59 | 29°50 | 6°45 | 7°55 | 4° 0 | 0°39 | W14 |
| T 15 | 13 34 18 | 25°25'01 | 2♑55 | 14°10 | 25°21 | 29°39 | 16°54 | 4°29 | 11°36 | 23° 1 | 29°50 | 6°D44 | 7°52 | 4° 6 | 0°42 | T 15 |
| F 16 | 13 38 15 | 26°23'33 | 16°59 | 14°41 | 24°43 | 0♌ 2 | 17° 1 | 4°29 | 11°39 | 23° 3 | 29°50 | 6°44 | 7°48 | 4°13 | 0°46 | F 16 |
| S 17 | 13 42 11 | 27°22'03 | 0♒45 | 15° 6 | 24° 6 | 0°26 | 17° 7 | 4°28 | 11°42 | 23° 5 | 29°50 | 6°R44 | 7°45 | 4°20 | 0°49 | S 17 |
| S 18 | 13 46 8 | 28°20'32 | 14°11 | 15°26 | 23°29 | 0°50 | 17°14 | 4°28 | 11°44 | 23° 7 | 29°50 | 6°43 | 7°42 | 4°26 | 0°53 | S 18 |
| M19 | 13 50 5 | 29°18'59 | 27°22 | 15°39 | 22°52 | 1°14 | 17°20 | 4°27 | 11°47 | 23° 9 | 29°50 | 6°40 | 7°39 | 4°33 | 0°57 | M19 |
| T 20 | 13 54 1 | 0♉17'24 | 10♓18 | 15°47 | 22°17 | 1°39 | 17°27 | 4°27 | 11°50 | 23°11 | 29°51 | 6°34 | 7°36 | 4°40 | 1° 1 | T 20 |
| W21 | 13 57 58 | 1°15'48 | 23° 1 | 15°R49 | 21°43 | 2° 4 | 17°34 | 4°26 | 11°53 | 23°12 | 29°51 | 6°26 | 7°32 | 4°46 | 1° 5 | W21 |
| T 22 | 14 1 54 | 2°14'10 | 5♈32 | 15°45 | 21°11 | 2°29 | 17°41 | 4°25 | 11°56 | 23°14 | 29°51 | 6°15 | 7°29 | 4°53 | 1° 9 | T 22 |
| F 23 | 14 5 51 | 3°12'30 | 17°53 | 15°36 | 20°40 | 2°54 | 17°49 | 4°24 | 11°59 | 23°16 | 29°51 | 6° 4 | 7°26 | 5° 0 | 1°13 | F 23 |
| S 24 | 14 9 47 | 4°10'49 | 0♉ 5 | 15°22 | 20°11 | 3°19 | 17°56 | 4°23 | 12° 2 | 23°18 | 29°52 | 5°52 | 7°23 | 5° 6 | 1°17 | S 24 |
| S 25 | 14 13 44 | 5° 9'06 | 12° 9 | 15° 4 | 19°43 | 3°45 | 18° 4 | 4°22 | 12° 5 | 23°20 | 29°52 | 5°42 | 7°20 | 5°13 | 1°21 | S 25 |
| M26 | 14 17 40 | 6° 7'21 | 24° 5 | 14°41 | 19°18 | 4°11 | 18°11 | 4°21 | 12° 8 | 23°22 | 29°52 | 5°33 | 7°17 | 5°20 | 1°25 | M26 |
| T 27 | 14 21 37 | 7° 5'34 | 5♊55 | 14°14 | 18°55 | 4°37 | 18°19 | 4°19 | 12°11 | 23°23 | 29°53 | 5°26 | 7°13 | 5°26 | 1°30 | T 27 |
| W28 | 14 25 34 | 8° 3'46 | 17°42 | 13°44 | 18°34 | 5° 4 | 18°27 | 4°18 | 12°14 | 23°25 | 29°53 | 5°22 | 7°10 | 5°33 | 1°34 | W28 |
| T 29 | 14 29 30 | 9° 1'56 | 29°30 | 13°11 | 18°16 | 5°30 | 18°35 | 4°16 | 12°17 | 23°27 | 29°54 | 5°20 | 7° 7 | 5°40 | 1°38 | T 29 |
| F 30 | 14 33 27 | 10♉ 0'03 | 11♋21 | 12♉36 | 18♈ 0 | 5♌57 | 18♋43 | 4♏15 | 12♊20 | 23♓29 | 29♋54 | 5°D20 | 7♏ 4 | 5♊46 | 1♋43 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n38 | 24n39 | 1n28 | 11n42 | 1n18 | 19n19 | 7n24 | 23n51 | 2n40 | 23n 0 | 0n27 | 22s26 | 0n58 | 22n 9 | 0n 1 | 4s 4 | 1s12 | 24n44 | 4n38 | 23s14 | 23s12 | 23n41 | 17n 2 | 6s27 |
| F 2 | 5 1 | 23 53 | 0 27 | 12 30 | 1 30 | 19 13 | 7 25 | 23 46 | 2 38 | 23 0 | 0 27 | 22 26 | 0 58 | 22 9 | 0 1 | 4 4 | 1 12 | 24 45 | 4 38 | 23 14 | 23 12 | 23 41 | 17 2 | 6 26 |
| S 3 | 5 24 | 22 2 | 0s37 | 13 15 | 1 40 | 19 5 | 7 25 | 23 40 | 2 37 | 22 59 | 0 27 | 22 26 | 0 58 | 22 10 | 0 1 | 4 3 | 1 12 | 24 45 | 4 38 | 23 14 | 23 12 | 23 42 | 17 3 | 6 26 |
| S 4 | 5 47 | 19 7 | 1 40 | 13 59 | 1 51 | 18 57 | 7 25 | 23 35 | 2 35 | 22 59 | 0 27 | 22 26 | 0 58 | 22 10 | 0 1 | 4 2 | 1 12 | 24 45 | 4 38 | 23 14 | 23 13 | 23 43 | 17 3 | 6 25 |
| M 5 | 6 10 | 15 16 | 2 40 | 14 40 | 2 1 | 18 46 | 7 23 | 23 30 | 2 34 | 22 58 | 0 27 | 22 26 | 0 58 | 22 10 | 0 1 | 4 1 | 1 12 | 24 44 | 4 38 | 23 15 | 23 13 | 23 43 | 17 4 | 6 25 |
| T 6 | 6 32 | 10 35 | 3 34 | 15 18 | 2 10 | 18 34 | 7 21 | 23 24 | 2 32 | 22 58 | 0 27 | 22 26 | 0 58 | 22 11 | 0 1 | 4 0 | 1 12 | 24 44 | 4 38 | 23 15 | 23 13 | 23 44 | 17 4 | 6 24 |
| W 7 | 6 55 | 5 16 | 4 17 | 15 54 | 2 19 | 18 21 | 7 19 | 23 19 | 2 31 | 22 57 | 0 27 | 22 26 | 0 58 | 22 11 | 0 1 | 3 59 | 1 12 | 24 44 | 4 38 | 23 15 | 23 13 | 23 44 | 17 5 | 6 24 |
| T 8 | 7 17 | 0s28 | 4 47 | 16 27 | 2 27 | 18 6 | 7 15 | 23 13 | 2 29 | 22 56 | 0 27 | 22 26 | 0 58 | 22 11 | 0 1 | 3 59 | 1 12 | 24 44 | 4 38 | 23 16 | 23 13 | 23 45 | 17 5 | 6 23 |
| F 9 | 7 40 | 6 21 | 5 1 | 16 57 | 2 34 | 17 50 | 7 10 | 23 8 | 2 28 | 22 56 | 0 27 | 22 26 | 0 58 | 22 12 | 0 1 | 3 58 | 1 12 | 24 44 | 4 38 | 23 16 | 23 14 | 23 46 | 17 6 | 6 23 |
| S 10 | 8 2 | 12 1 | 4 55 | 17 24 | 2 40 | 17 33 | 7 5 | 23 2 | 2 26 | 22 55 | 0 27 | 22 26 | 0 58 | 22 12 | 0 1 | 3 57 | 1 12 | 24 44 | 4 38 | 23 17 | 23 14 | 23 46 | 17 6 | 6 23 |
| S 11 | 8 24 | 17 5 | 4 29 | 17 48 | 2 46 | 17 14 | 6 59 | 22 56 | 2 25 | 22 55 | 0 27 | 22 26 | 0 58 | 22 12 | 0 1 | 3 56 | 1 12 | 24 44 | 4 38 | 23 17 | 23 14 | 23 47 | 17 7 | 6 22 |
| M12 | 8 46 | 21 5 | 3 45 | 18 10 | 2 50 | 16 54 | 6 52 | 22 50 | 2 23 | 22 54 | 0 27 | 22 26 | 0 58 | 22 13 | 0 1 | 3 55 | 1 12 | 24 44 | 4 38 | 23 18 | 23 14 | 23 47 | 17 7 | 6 22 |
| T 13 | 9 8 | 23 39 | 2 45 | 18 28 | 2 54 | 16 33 | 6 45 | 22 44 | 2 22 | 22 53 | 0 27 | 22 26 | 0 58 | 22 13 | 0 1 | 3 55 | 1 12 | 24 44 | 4 37 | 23 18 | 23 14 | 23 48 | 17 7 | 6 21 |
| W14 | 9 29 | 24 34 | 1 35 | 18 43 | 2 56 | 16 11 | 6 36 | 22 38 | 2 20 | 22 52 | 0 27 | 22 26 | 0 58 | 22 14 | 0 1 | 3 54 | 1 12 | 24 44 | 4 37 | 23 18 | 23 15 | 23 48 | 17 8 | 6 21 |
| T 15 | 9 51 | 23 47 | 0 20 | 18 56 | 2 57 | 15 49 | 6 27 | 22 31 | 2 19 | 22 52 | 0 27 | 22 26 | 0 58 | 22 14 | 0 1 | 3 53 | 1 12 | 24 44 | 4 37 | 23 18 | 23 15 | 23 49 | 17 8 | 6 20 |
| F 16 | 10 12 | 21 30 | 0n54 | 19 5 | 2 57 | 15 25 | 6 17 | 22 25 | 2 18 | 22 51 | 0 27 | 22 26 | 0 58 | 22 14 | 0 1 | 3 52 | 1 12 | 24 44 | 4 37 | 23 18 | 23 15 | 23 50 | 17 9 | 6 20 |
| S 17 | 10 33 | 18 0 | 2 4 | 19 12 | 2 56 | 15 2 | 6 6 | 22 18 | 2 16 | 22 50 | 0 27 | 22 26 | 0 58 | 22 15 | 0 1 | 3 52 | 1 12 | 24 44 | 4 37 | 23 18 | 23 15 | 23 50 | 17 9 | 6 19 |
| S 18 | 10 54 | 13 39 | 3 5 | 19 15 | 2 53 | 14 37 | 5 55 | 22 12 | 2 15 | 22 49 | 0 27 | 22 26 | 0 58 | 22 15 | 0 1 | 3 51 | 1 12 | 24 44 | 4 37 | 23 19 | 23 15 | 23 51 | 17 10 | 6 19 |
| M19 | 11 15 | 8 43 | 3 55 | 19 15 | 2 49 | 14 13 | 5 43 | 22 5 | 2 13 | 22 48 | 0 28 | 22 26 | 0 58 | 22 15 | 0 1 | 3 50 | 1 12 | 24 44 | 4 37 | 23 19 | 23 15 | 23 51 | 17 10 | 6 19 |
| T 20 | 11 36 | 3 31 | 4 32 | 19 13 | 2 44 | 13 48 | 5 31 | 21 58 | 2 12 | 22 48 | 0 28 | 22 26 | 0 58 | 22 16 | 0 1 | 3 49 | 1 12 | 24 44 | 4 37 | 23 19 | 23 16 | 23 52 | 17 10 | 6 18 |
| W21 | 11 56 | 1n44 | 4 55 | 19 7 | 2 38 | 13 23 | 5 18 | 21 51 | 2 11 | 22 47 | 0 28 | 22 26 | 0 58 | 22 16 | 0 1 | 3 49 | 1 12 | 24 44 | 4 37 | 23 19 | 23 16 | 23 52 | 17 11 | 6 18 |
| T 22 | 12 16 | 6 50 | 5 3 | 18 58 | 2 30 | 12 59 | 5 5 | 21 44 | 2 9 | 22 46 | 0 28 | 22 26 | 0 58 | 22 17 | 0 1 | 3 48 | 1 13 | 24 43 | 4 37 | 23 20 | 23 16 | 23 53 | 17 11 | 6 17 |
| F 23 | 12 36 | 11 36 | 4 57 | 18 47 | 2 21 | 12 35 | 4 51 | 21 37 | 2 8 | 22 45 | 0 28 | 22 26 | 0 58 | 22 17 | 0 1 | 3 47 | 1 13 | 24 43 | 4 37 | 23 20 | 23 16 | 23 53 | 17 11 | 6 17 |
| S 24 | 12 56 | 15 50 | 4 37 | 18 33 | 2 11 | 12 11 | 4 38 | 21 30 | 2 7 | 22 44 | 0 28 | 22 26 | 0 58 | 22 17 | 0 1 | 3 47 | 1 13 | 24 43 | 4 37 | 23 21 | 23 16 | 23 54 | 17 12 | 6 17 |
| S 25 | 13 16 | 19 23 | 4 5 | 18 17 | 1 59 | 11 47 | 4 24 | 21 23 | 2 5 | 22 43 | 0 28 | 22 26 | 0 58 | 22 18 | 0 1 | 3 46 | 1 13 | 24 43 | 4 37 | 23 21 | 23 17 | 23 54 | 17 12 | 6 16 |
| M26 | 13 35 | 22 5 | 3 22 | 17 58 | 1 46 | 11 25 | 4 9 | 21 15 | 2 4 | 22 42 | 0 28 | 22 26 | 0 59 | 22 18 | 0 1 | 3 45 | 1 13 | 24 43 | 4 37 | 23 22 | 23 17 | 23 55 | 17 12 | 6 16 |
| T 27 | 13 54 | 23 48 | 2 31 | 17 37 | 1 33 | 11 3 | 3 55 | 21 8 | 2 3 | 22 41 | 0 28 | 22 26 | 0 59 | 22 19 | 0 1 | 3 44 | 1 13 | 24 43 | 4 37 | 23 22 | 23 17 | 23 55 | 17 13 | 6 15 |
| W28 | 14 13 | 24 27 | 1 33 | 17 14 | 1 18 | 10 41 | 3 41 | 21 0 | 2 2 | 22 40 | 0 28 | 22 26 | 0 59 | 22 19 | 0 1 | 3 44 | 1 13 | 24 43 | 4 37 | 23 22 | 23 17 | 23 56 | 17 13 | 6 15 |
| T 29 | 14 32 | 24 0 | 0 31 | 16 49 | 1 2 | 10 21 | 3 26 | 20 52 | 2 0 | 22 39 | 0 28 | 22 26 | 0 59 | 22 19 | 0 1 | 3 43 | 1 13 | 24 43 | 4 37 | 23 22 | 23 17 | 23 56 | 17 13 | 6 15 |
| F 30 | 14n50 | 22n27 | 0s32 | 16n23 | 0n46 | 10n 2 | 3n12 | 20n44 | 1n59 | 22n38 | 0n28 | 22s26 | 0n59 | 22n20 | 0n 1 | 3s43 | 1s13 | 24n42 | 4n37 | 23s22 | 23s17 | 23n56 | 17n14 | 6s14 |

Julian Day Number = 2339871.5, Delta T = 16.51 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'20, Lahiri = 19°35'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## MAY 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 37 23 | 10♉58'09 | 23♋21 | 12°R 0 | 17°R46 | 6♌24 | 18♋52 | 4°R13 | 12♊23 | 23♓30 | 29♋55 | 5♑21 | 7♑ 1 | 5♊53 | 1♋48 | S 1 |
| S 2 | 14 41 20 | 11°56'13 | 5♌34 | 11♉23 | 17♈34 | 6°52 | 19° 0 | 4♑11 | 12°26 | 23°32 | 29°55 | 5°22 | 6°58 | 6° 0 | 1°52 | S 2 |
| M 3 | 14 45 16 | 12°54'15 | 18° 6 | 10°45 | 17°25 | 7°19 | 19° 9 | 4°10 | 12°29 | 23°34 | 29°56 | 5°R22 | 6°54 | 6° 6 | 1°57 | M 3 |
| T 4 | 14 49 13 | 13°52'15 | 1♍ 1 | 10° 9 | 17°19 | 7°47 | 19°17 | 4° 8 | 12°33 | 23°35 | 29°56 | 5°20 | 6°51 | 6°13 | 2° 2 | T 4 |
| W 5 | 14 53 9 | 14°50'13 | 14°24 | 9°33 | 17°15 | 8°15 | 19°26 | 4° 6 | 12°36 | 23°37 | 29°57 | 5°17 | 6°48 | 6°20 | 2° 6 | W 5 |
| T 6 | 14 57 6 | 15°48'09 | 28°15 | 8°59 | 17°D13 | 8°43 | 19°35 | 4° 3 | 12°39 | 23°38 | 29°57 | 5°12 | 6°45 | 6°26 | 2°11 | T 6 |
| F 7 | 15 1 3 | 16°46'03 | 12♎35 | 8°27 | 17°13 | 9°11 | 19°44 | 4° 1 | 12°42 | 23°40 | 29°58 | 5° 5 | 6°42 | 6°33 | 2°16 | F 7 |
| S 8 | 15 4 59 | 17°43'56 | 27°20 | 7°58 | 17°16 | 9°39 | 19°53 | 3°59 | 12°46 | 23°41 | 29°59 | 4°58 | 6°38 | 6°40 | 2°21 | S 8 |
| S 9 | 15 8 56 | 18°41'47 | 12♏23 | 7°33 | 17°22 | 10° 8 | 20° 2 | 3°57 | 12°49 | 23°43 | 29°59 | 4°51 | 6°35 | 6°46 | 2°26 | S 9 |
| M10 | 15 12 52 | 19°39'36 | 27°34 | 7°11 | 17°29 | 10°36 | 20°12 | 3°54 | 12°52 | 23°44 | 0♌ 0 | 4°45 | 6°32 | 6°53 | 2°31 | M10 |
| T 11 | 15 16 49 | 20°37'25 | 12♐45 | 6°53 | 17°39 | 11° 5 | 20°21 | 3°52 | 12°56 | 23°46 | 0° 1 | 4°42 | 6°29 | 7° 0 | 2°36 | T 11 |
| W12 | 15 20 45 | 21°35'12 | 27°44 | 6°39 | 17°50 | 11°34 | 20°31 | 3°49 | 12°59 | 23°47 | 0° 2 | 4°D40 | 6°26 | 7° 6 | 2°41 | W12 |
| T 13 | 15 24 42 | 22°32'57 | 12♑25 | 6°29 | 18° 4 | 12° 3 | 20°40 | 3°46 | 13° 2 | 23°49 | 0° 2 | 4°40 | 6°23 | 7°13 | 2°46 | T 13 |
| F 14 | 15 28 38 | 23°30'42 | 26°44 | 6°24 | 18°20 | 12°33 | 20°50 | 3°44 | 13° 6 | 23°50 | 0° 3 | 4°41 | 6°19 | 7°20 | 2°52 | F 14 |
| S 15 | 15 32 35 | 24°28'25 | 10♒38 | 6°D23 | 18°38 | 13° 2 | 21° 0 | 3°41 | 13° 9 | 23°51 | 0° 4 | 4°42 | 6°16 | 7°26 | 2°57 | S 15 |
| S 16 | 15 36 32 | 25°26'07 | 24° 8 | 6°27 | 18°57 | 13°32 | 21°10 | 3°38 | 13°13 | 23°53 | 0° 5 | 4°R43 | 6°13 | 7°33 | 3° 2 | S 16 |
| M17 | 15 40 28 | 26°23'49 | 7♓17 | 6°35 | 19°19 | 14° 2 | 21°20 | 3°35 | 13°16 | 23°54 | 0° 6 | 4°43 | 6°10 | 7°40 | 3° 7 | M17 |
| T 18 | 15 44 25 | 27°21'29 | 20° 6 | 6°48 | 19°42 | 14°32 | 21°30 | 3°32 | 13°19 | 23°55 | 0° 7 | 4°40 | 6° 7 | 7°46 | 3°13 | T 18 |
| W19 | 15 48 21 | 28°19'08 | 2♈39 | 7° 6 | 20° 7 | 15° 2 | 21°40 | 3°29 | 13°23 | 23°56 | 0° 8 | 4°37 | 6° 4 | 7°53 | 3°18 | W19 |
| T 20 | 15 52 18 | 29°16'46 | 14°58 | 7°27 | 20°33 | 15°32 | 21°50 | 3°25 | 13°26 | 23°58 | 0° 9 | 4°32 | 6° 0 | 8° 0 | 3°24 | T 20 |
| F 21 | 15 56 14 | 0♊14'23 | 27° 7 | 7°53 | 21° 1 | 16° 3 | 22° 1 | 3°22 | 13°30 | 23°59 | 0° 9 | 4°26 | 5°57 | 8° 6 | 3°29 | F 21 |
| S 22 | 16 0 11 | 1°11'59 | 9♉ 8 | 8°24 | 21°31 | 16°33 | 22°11 | 3°19 | 13°33 | 24° 0 | 0°10 | 4°20 | 5°54 | 8°13 | 3°35 | S 22 |
| S 23 | 16 4 7 | 2° 9'34 | 21° 3 | 8°58 | 22° 2 | 17° 4 | 22°22 | 3°15 | 13°37 | 24° 1 | 0°11 | 4°14 | 5°51 | 8°20 | 3°40 | S 23 |
| M24 | 16 8 4 | 3° 7'08 | 2♊53 | 9°36 | 22°34 | 17°35 | 22°32 | 3°12 | 13°40 | 24° 2 | 0°13 | 4°10 | 5°48 | 8°26 | 3°46 | M24 |
| T 25 | 16 12 1 | 4° 4'41 | 14°41 | 10°19 | 23° 8 | 18° 6 | 22°43 | 3° 8 | 13°44 | 24° 3 | 0°14 | 4° 7 | 5°44 | 8°33 | 3°52 | T 25 |
| W26 | 16 15 57 | 5° 2'13 | 26°29 | 11° 5 | 23°43 | 18°37 | 22°54 | 3° 5 | 13°47 | 24° 4 | 0°15 | 4° 5 | 5°41 | 8°40 | 3°58 | W26 |
| T 27 | 16 19 54 | 5°59'44 | 8♋19 | 11°54 | 24°19 | 19° 8 | 23° 5 | 3° 1 | 13°51 | 24° 5 | 0°16 | 4°D 5 | 5°38 | 8°46 | 4° 3 | T 27 |
| F 28 | 16 23 50 | 6°57'13 | 20°14 | 12°47 | 24°57 | 19°39 | 23°16 | 2°57 | 13°54 | 24° 6 | 0°17 | 4° 6 | 5°35 | 8°53 | 4° 9 | F 28 |
| S 29 | 16 27 47 | 7°54'41 | 2♌18 | 13°44 | 25°35 | 20°11 | 23°27 | 2°54 | 13°58 | 24° 7 | 0°18 | 4° 7 | 5°32 | 9° 0 | 4°15 | S 29 |
| S 30 | 16 31 43 | 8°52'08 | 14°34 | 14°44 | 26°15 | 20°42 | 23°38 | 2°50 | 14° 2 | 24° 8 | 0°19 | 4° 9 | 5°29 | 9° 6 | 4°21 | S 30 |
| M31 | 16 35 40 | 9♊49'34 | 27♌ 7 | 15♉48 | 26♈55 | 21♌14 | 23♋49 | 2♑46 | 14♊ 5 | 24♓ 9 | 0♌20 | 4♑10 | 5♑25 | 9♊13 | 4♋27 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 15n 9 | 19n53 | 1s35 | 15n56 | 0n29 | 9n43 | 2n58 | 20n36 | 1n58 | 22n37 | 0n28 | 22s26 | 0n59 | 22n20 | 0n 1 | 3s42 | 1s13 | 24n42 | 4n37 | 23s22 | 23s18 | 23n57 | 17n14 | 6s14 | S 1 |
| S 2 | 15 27 | 16 24 | 2 35 | 15 28 | 0 12 | 9 26 | 2 44 | 20 28 | 1 57 | 22 35 | 0 28 | 22 26 | 0 59 | 22 21 | 0 1 | 3 41 | 1 13 | 24 42 | 4 36 | 23 22 | 23 18 | 23 57 | 17 14 | 6 14 | S 2 |
| M 3 | 15 44 | 12 6 | 3 29 | 15 0 | 0s 5 | 9 10 | 2 30 | 20 20 | 1 55 | 22 34 | 0 28 | 22 26 | 0 59 | 22 21 | 0 1 | 3 41 | 1 13 | 24 42 | 4 36 | 23 22 | 23 18 | 23 58 | 17 15 | 6 13 | M 3 |
| T 4 | 16 2 | 7 9 | 4 15 | 14 32 | 0 22 | 8 54 | 2 16 | 20 12 | 1 54 | 22 33 | 0 28 | 22 26 | 0 59 | 22 22 | 0 1 | 3 40 | 1 13 | 24 42 | 4 36 | 23 22 | 23 18 | 23 58 | 17 15 | 6 13 | T 4 |
| W 5 | 16 19 | 1 44 | 4 48 | 14 4 | 0 40 | 8 40 | 2 3 | 20 3 | 1 53 | 22 32 | 0 28 | 22 26 | 0 59 | 22 22 | 0 1 | 3 39 | 1 13 | 24 42 | 4 36 | 23 22 | 23 18 | 23 59 | 17 15 | 6 13 | W 5 |
| T 6 | 16 36 | 3s58 | 5 6 | 13 37 | 0 57 | 8 27 | 1 50 | 19 55 | 1 52 | 22 30 | 0 28 | 22 26 | 0 59 | 22 22 | 0 1 | 3 39 | 1 13 | 24 41 | 4 36 | 23 23 | 23 18 | 23 59 | 17 15 | 6 12 | T 6 |
| F 7 | 16 52 | 9 40 | 5 5 | 13 11 | 1 13 | 8 16 | 1 37 | 19 46 | 1 51 | 22 29 | 0 28 | 22 27 | 0 59 | 22 23 | 0 1 | 3 38 | 1 13 | 24 41 | 4 36 | 23 23 | 23 19 | 23 59 | 17 16 | 6 12 | F 7 |
| S 8 | 17 9 | 14 58 | 4 45 | 12 47 | 1 29 | 8 5 | 1 24 | 19 37 | 1 49 | 22 28 | 0 28 | 22 27 | 0 59 | 22 23 | 0 1 | 3 38 | 1 13 | 24 41 | 4 36 | 23 23 | 23 19 | 24 0 | 17 16 | 6 12 | S 8 |
| S 9 | 17 25 | 19 28 | 4 5 | 12 24 | 1 45 | 7 56 | 1 11 | 19 28 | 1 48 | 22 27 | 0 28 | 22 27 | 0 59 | 22 24 | 0 1 | 3 37 | 1 13 | 24 41 | 4 36 | 23 23 | 23 19 | 24 0 | 17 16 | 6 11 | S 9 |
| M10 | 17 41 | 22 41 | 3 7 | 12 3 | 1 59 | 7 47 | 0 59 | 19 19 | 1 47 | 22 25 | 0 28 | 22 27 | 0 59 | 22 24 | 0 1 | 3 37 | 1 13 | 24 41 | 4 36 | 23 24 | 23 19 | 24 1 | 17 16 | 6 11 | M10 |
| T 11 | 17 56 | 24 17 | 1 56 | 11 44 | 2 13 | 7 40 | 0 48 | 19 10 | 1 46 | 22 24 | 0 28 | 22 27 | 0 59 | 22 25 | 0 1 | 3 36 | 1 13 | 24 40 | 4 36 | 23 24 | 23 19 | 24 1 | 17 16 | 6 11 | T 11 |
| W12 | 18 11 | 24 5 | 0 38 | 11 28 | 2 26 | 7 34 | 0 36 | 19 1 | 1 45 | 22 22 | 0 28 | 22 27 | 0 59 | 22 25 | 0 1 | 3 36 | 1 13 | 24 40 | 4 36 | 23 24 | 23 19 | 24 1 | 17 17 | 6 11 | W12 |
| T 13 | 18 26 | 22 12 | 0n42 | 11 14 | 2 37 | 7 29 | 0 25 | 18 52 | 1 44 | 22 21 | 0 28 | 22 27 | 0 59 | 22 25 | 0 1 | 3 35 | 1 13 | 24 40 | 4 36 | 23 24 | 23 20 | 24 2 | 17 17 | 6 10 | T 13 |
| F 14 | 18 41 | 18 56 | 1 57 | 11 2 | 2 48 | 7 25 | 0 14 | 18 43 | 1 43 | 22 20 | 0 28 | 22 27 | 0 59 | 22 26 | 0 1 | 3 35 | 1 13 | 24 40 | 4 36 | 23 24 | 23 20 | 24 2 | 17 17 | 6 10 | F 14 |
| S 15 | 18 55 | 14 40 | 3 3 | 10 52 | 2 58 | 7 22 | 0 4 | 18 33 | 1 41 | 22 18 | 0 28 | 22 27 | 0 59 | 22 26 | 0 1 | 3 34 | 1 13 | 24 40 | 4 36 | 23 24 | 23 20 | 24 2 | 17 17 | 6 10 | S 15 |
| S 16 | 19 9 | 9 46 | 3 57 | 10 45 | 3 7 | 7 20 | 0s 6 | 18 23 | 1 40 | 22 17 | 0 28 | 22 27 | 0 58 | 22 27 | 0 1 | 3 34 | 1 13 | 24 39 | 4 36 | 23 24 | 23 20 | 24 3 | 17 17 | 6 10 | S 16 |
| M17 | 19 23 | 4 34 | 4 36 | 10 41 | 3 14 | 7 19 | 0 16 | 18 14 | 1 39 | 22 15 | 0 28 | 22 27 | 0 58 | 22 27 | 0 1 | 3 33 | 1 14 | 24 39 | 4 36 | 23 24 | 23 20 | 24 3 | 17 17 | 6 9 | M17 |
| T 18 | 19 36 | 0n41 | 5 1 | 10 39 | 3 21 | 7 20 | 0 25 | 18 4 | 1 38 | 22 13 | 0 28 | 22 27 | 0 58 | 22 28 | 0 1 | 3 33 | 1 14 | 24 39 | 4 36 | 23 24 | 23 20 | 24 3 | 17 17 | 6 9 | T 18 |
| W19 | 19 49 | 5 48 | 5 11 | 10 39 | 3 26 | 7 20 | 0 35 | 17 54 | 1 37 | 22 12 | 0 28 | 22 28 | 0 58 | 22 28 | 0 1 | 3 32 | 1 14 | 24 39 | 4 36 | 23 24 | 23 20 | 24 4 | 17 18 | 6 9 | W19 |
| T 20 | 20 2 | 10 36 | 5 6 | 10 42 | 3 31 | 7 22 | 0 43 | 17 44 | 1 36 | 22 10 | 0 28 | 22 28 | 0 58 | 22 28 | 0 1 | 3 32 | 1 14 | 24 38 | 4 36 | 23 24 | 23 21 | 24 4 | 17 18 | 6 9 | T 20 |
| F 21 | 20 14 | 14 56 | 4 47 | 10 47 | 3 35 | 7 25 | 0 52 | 17 34 | 1 35 | 22 9 | 0 28 | 22 28 | 0 58 | 22 29 | 0 1 | 3 31 | 1 14 | 24 38 | 4 36 | 23 24 | 23 21 | 24 4 | 17 18 | 6 8 | F 21 |
| S 22 | 20 26 | 18 36 | 4 16 | 10 54 | 3 37 | 7 28 | 1 0 | 17 24 | 1 34 | 22 7 | 0 28 | 22 28 | 0 58 | 22 29 | 0 1 | 3 31 | 1 14 | 24 38 | 4 36 | 23 24 | 23 21 | 24 5 | 17 18 | 6 8 | S 22 |
| S 23 | 20 38 | 21 29 | 3 34 | 11 3 | 3 39 | 7 33 | 1 8 | 17 13 | 1 33 | 22 5 | 0 28 | 22 28 | 0 58 | 22 30 | 0 1 | 3 31 | 1 14 | 24 38 | 4 36 | 23 25 | 23 21 | 24 5 | 17 18 | 6 8 | S 23 |
| M24 | 20 49 | 23 26 | 2 43 | 11 14 | 3 40 | 7 38 | 1 15 | 17 3 | 1 32 | 22 4 | 0 28 | 22 28 | 0 58 | 22 30 | 0 1 | 3 30 | 1 14 | 24 37 | 4 36 | 23 25 | 23 21 | 24 5 | 17 18 | 6 8 | M24 |
| T 25 | 21 0 | 24 20 | 1 44 | 11 27 | 3 40 | 7 43 | 1 23 | 16 52 | 1 31 | 22 2 | 0 29 | 22 28 | 0 58 | 22 31 | 0 1 | 3 30 | 1 14 | 24 37 | 4 35 | 23 25 | 23 21 | 24 6 | 17 18 | 6 7 | T 25 |
| W26 | 21 10 | 24 8 | 0 42 | 11 42 | 3 39 | 7 50 | 1 30 | 16 42 | 1 30 | 22 0 | 0 29 | 22 28 | 0 58 | 22 31 | 0 1 | 3 29 | 1 14 | 24 37 | 4 35 | 23 25 | 23 21 | 24 6 | 17 18 | 6 7 | W26 |
| T 27 | 21 21 | 22 50 | 0s23 | 11 59 | 3 37 | 7 57 | 1 36 | 16 31 | 1 29 | 21 58 | 0 29 | 22 28 | 0 58 | 22 31 | 0 1 | 3 29 | 1 14 | 24 37 | 4 35 | 23 25 | 23 22 | 24 6 | 17 18 | 6 7 | T 27 |
| F 28 | 21 30 | 20 30 | 1 28 | 12 18 | 3 35 | 8 5 | 1 43 | 16 20 | 1 28 | 21 56 | 0 29 | 22 29 | 0 58 | 22 32 | 0 1 | 3 29 | 1 14 | 24 36 | 4 35 | 23 25 | 23 22 | 24 6 | 17 18 | 6 7 | F 28 |
| S 29 | 21 40 | 17 16 | 2 29 | 12 37 | 3 31 | 8 13 | 1 49 | 16 9 | 1 27 | 21 55 | 0 29 | 22 29 | 0 58 | 22 32 | 0 1 | 3 28 | 1 14 | 24 36 | 4 35 | 23 25 | 23 22 | 24 7 | 17 18 | 6 7 | S 29 |
| S 30 | 21 49 | 13 13 | 3 25 | 12 59 | 3 27 | 8 22 | 1 55 | 15 58 | 1 26 | 21 53 | 0 29 | 22 29 | 0 58 | 22 33 | 0 1 | 3 28 | 1 14 | 24 36 | 4 35 | 23 25 | 23 22 | 24 7 | 17 18 | 6 7 | S 30 |
| M31 | 21n58 | 8n33 | 4s12 | 13n21 | 3s23 | 8n31 | 2s 0 | 15n47 | 1n25 | 21n51 | 0n29 | 22s29 | 0n58 | 22n33 | 0n 1 | 3s28 | 1s14 | 24n35 | 4n35 | 23s25 | 23s22 | 24n 7 | 17n18 | 6s 6 | M31 |

Julian Day Number = 2339901.5, Delta T = 16.47 sec
Ecliptic obliquity = 23°28'46, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'24, Lahiri = 19°35'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## JUNE 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 16 39 36 | 10♊46'59 | 10♍ 0 | 16♉54 | 27♈37 | 21♌46 | 24♋ 1 | 2°R42 | 14♊ 9 | 24♓10 | 0♌21 | 4°R11 | 5♑22 | 9♊20 | 4♋32 | T 1 |
| W 2 | 16 43 33 | 11°44'22 | 23°17 | 18° 4 | 28°20 | 22°18 | 24°12 | 2♑38 | 14°12 | 24°11 | 0°23 | 4♑10 | 5°19 | 9°26 | 4°38 | W 2 |
| T 3 | 16 47 30 | 12°41'44 | 7♎ 1 | 19°17 | 29° 3 | 22°50 | 24°23 | 2°34 | 14°16 | 24°11 | 0°24 | 4° 9 | 5°16 | 9°33 | 4°44 | T 3 |
| F 4 | 16 51 26 | 13°39'05 | 21°11 | 20°33 | 29°48 | 23°22 | 24°35 | 2°30 | 14°19 | 24°12 | 0°25 | 4° 7 | 5°13 | 9°40 | 4°50 | F 4 |
| S 5 | 16 55 23 | 14°36'26 | 5♏47 | 21°53 | 0♉33 | 23°54 | 24°46 | 2°26 | 14°23 | 24°13 | 0°26 | 4° 4 | 5°10 | 9°46 | 4°56 | S 5 |
| S 6 | 16 59 19 | 15°33'45 | 20°44 | 23°15 | 1°19 | 24°27 | 24°58 | 2°22 | 14°26 | 24°14 | 0°28 | 4° 2 | 5° 6 | 9°53 | 5° 2 | S 6 |
| M 7 | 17 3 16 | 16°31'03 | 5♐53 | 24°40 | 2° 6 | 24°59 | 25°10 | 2°18 | 14°30 | 24°14 | 0°29 | 4° 0 | 5° 3 | 10° 0 | 5° 8 | M 7 |
| T 8 | 17 7 12 | 17°28'21 | 21° 6 | 26° 8 | 2°54 | 25°32 | 25°21 | 2°14 | 14°34 | 24°15 | 0°30 | 3°59 | 5° 0 | 10° 6 | 5°14 | T 8 |
| W 9 | 17 11 9 | 18°25'38 | 6♑13 | 27°39 | 3°43 | 26° 5 | 25°33 | 2° 9 | 14°37 | 24°15 | 0°32 | 3°D59 | 4°57 | 10°13 | 5°21 | W 9 |
| T 10 | 17 15 5 | 19°22'55 | 21° 5 | 29°13 | 4°32 | 26°38 | 25°45 | 2° 5 | 14°41 | 24°16 | 0°33 | 3°59 | 4°54 | 10°20 | 5°27 | T 10 |
| F 11 | 17 19 2 | 20°20'11 | 5♒36 | 0♊50 | 5°22 | 27°11 | 25°57 | 2° 1 | 14°44 | 24°17 | 0°34 | 4° 0 | 4°50 | 10°26 | 5°33 | F 11 |
| S 12 | 17 22 59 | 21°17'26 | 19°41 | 2°29 | 6°13 | 27°44 | 26° 9 | 1°57 | 14°48 | 24°17 | 0°36 | 4° 1 | 4°47 | 10°33 | 5°39 | S 12 |
| S 13 | 17 26 55 | 22°14'42 | 3♓20 | 4°12 | 7° 4 | 28°17 | 26°21 | 1°52 | 14°51 | 24°17 | 0°37 | 4° 2 | 4°44 | 10°40 | 5°45 | S 13 |
| M14 | 17 30 52 | 23°11'57 | 16°34 | 5°57 | 7°56 | 28°50 | 26°33 | 1°48 | 14°55 | 24°18 | 0°38 | 4° 2 | 4°41 | 10°46 | 5°51 | M14 |
| T 15 | 17 34 48 | 24° 9'11 | 29°24 | 7°45 | 8°48 | 29°23 | 26°45 | 1°44 | 14°58 | 24°18 | 0°40 | 4°R 2 | 4°38 | 10°53 | 5°58 | T 15 |
| W16 | 17 38 45 | 25° 6'26 | 11♈54 | 9°36 | 9°41 | 29°57 | 26°57 | 1°39 | 15° 2 | 24°19 | 0°41 | 4° 2 | 4°35 | 11° 0 | 6° 4 | W16 |
| T 17 | 17 42 41 | 26° 3'41 | 24° 9 | 11°29 | 10°35 | 0♍30 | 27° 9 | 1°35 | 15° 5 | 24°19 | 0°43 | 4° 1 | 4°31 | 11° 6 | 6°10 | T 17 |
| F 18 | 17 46 38 | 27° 0'55 | 6♉12 | 13°25 | 11°29 | 1° 4 | 27°22 | 1°31 | 15° 9 | 24°19 | 0°44 | 4° 0 | 4°28 | 11°13 | 6°16 | F 18 |
| S 19 | 17 50 34 | 27°58'09 | 18° 6 | 15°23 | 12°24 | 1°38 | 27°34 | 1°26 | 15°12 | 24°20 | 0°46 | 3°59 | 4°25 | 11°20 | 6°23 | S 19 |
| S 20 | 17 54 31 | 28°55'23 | 29°56 | 17°24 | 13°19 | 2°12 | 27°46 | 1°22 | 15°16 | 24°20 | 0°47 | 3°59 | 4°22 | 11°26 | 6°29 | S 20 |
| M21 | 17 58 28 | 29°52'37 | 11♊43 | 19°26 | 14°15 | 2°46 | 27°59 | 1°17 | 15°19 | 24°20 | 0°49 | 3°58 | 4°19 | 11°33 | 6°35 | M21 |
| T 22 | 18 2 24 | 0♋49'51 | 23°32 | 21°31 | 15°11 | 3°20 | 28°11 | 1°13 | 15°23 | 24°20 | 0°50 | 3°58 | 4°16 | 11°40 | 6°41 | T 22 |
| W23 | 18 6 21 | 1°47'05 | 5♋23 | 23°37 | 16° 8 | 3°54 | 28°24 | 1° 8 | 15°26 | 24°20 | 0°52 | 3°D58 | 4°12 | 11°46 | 6°48 | W23 |
| T 24 | 18 10 17 | 2°44'18 | 17°20 | 25°45 | 17° 5 | 4°28 | 28°36 | 1° 4 | 15°30 | 24°20 | 0°53 | 3°58 | 4° 9 | 11°53 | 6°54 | T 24 |
| F 25 | 18 14 14 | 3°41'31 | 29°24 | 27°54 | 18° 2 | 5° 2 | 28°49 | 1° 0 | 15°33 | 24°21 | 0°55 | 3°R58 | 4° 6 | 11°59 | 7° 0 | F 25 |
| S 26 | 18 18 10 | 4°38'44 | 11♌38 | 0♋ 3 | 19° 0 | 5°37 | 29° 2 | 0°55 | 15°37 | 24°21 | 0°56 | 3°58 | 4° 3 | 12° 6 | 7° 7 | S 26 |
| S 27 | 18 22 7 | 5°35'57 | 24° 4 | 2°13 | 19°58 | 6°11 | 29°14 | 0°51 | 15°40 | 24°R21 | 0°58 | 3°58 | 4° 0 | 12°13 | 7°13 | S 27 |
| M28 | 18 26 3 | 6°33'09 | 6♍45 | 4°24 | 20°57 | 6°46 | 29°27 | 0°46 | 15°43 | 24°21 | 1° 0 | 3°58 | 3°56 | 12°19 | 7°19 | M28 |
| T 29 | 18 30 0 | 7°30'21 | 19°42 | 6°35 | 21°56 | 7°21 | 29°40 | 0°42 | 15°47 | 24°20 | 1° 1 | 3°57 | 3°53 | 12°26 | 7°26 | T 29 |
| W30 | 18 33 57 | 8♋27'33 | 2♎59 | 8♋45 | 22♉55 | 7♍55 | 29♋52 | 0♑38 | 15♊50 | 24♓20 | 1♌ 3 | 3°D57 | 3♑50 | 12♊33 | 7♋32 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22n 6 | 3n23 | 4s48 | 13n45 | 3s18 | 8n41 | 2s 6 | 15n36 | 1n24 | 21n49 | 0n29 | 22s29 | 0n58 | 22n34 | 0n 1 | 3s27 | 1s14 | 24n35 | 4n35 | 23s25 | 23s22 | 24n 7 | 17n18 | 6s 6 |
| W 2 | 22 14 | 2s 4 | 5 10 | 14 10 | 3 12 | 8 52 | 2 11 | 15 24 | 1 23 | 21 47 | 0 29 | 22 29 | 0 58 | 22 34 | 0 1 | 3 27 | 1 14 | 24 35 | 4 35 | 23 25 | 23 22 | 24 8 | 17 18 | 6 6 |
| T 3 | 22 21 | 7 36 | 5 15 | 14 36 | 3 5 | 9 3 | 2 15 | 15 13 | 1 22 | 21 45 | 0 29 | 22 29 | 0 58 | 22 34 | 0 2 | 3 27 | 1 14 | 24 35 | 4 35 | 23 25 | 23 22 | 24 8 | 17 18 | 6 6 |
| F 4 | 22 29 | 12 56 | 5 2 | 15 3 | 2 58 | 9 14 | 2 20 | 15 1 | 1 21 | 21 43 | 0 29 | 22 29 | 0 58 | 22 35 | 0 2 | 3 27 | 1 14 | 24 34 | 4 35 | 23 25 | 23 23 | 24 8 | 17 18 | 6 6 |
| S 5 | 22 35 | 17 41 | 4 29 | 15 31 | 2 50 | 9 26 | 2 24 | 14 50 | 1 20 | 21 41 | 0 29 | 22 30 | 0 58 | 22 35 | 0 2 | 3 26 | 1 14 | 24 34 | 4 35 | 23 25 | 23 23 | 24 8 | 17 18 | 6 6 |
| S 6 | 22 42 | 21 27 | 3 37 | 16 0 | 2 42 | 9 38 | 2 28 | 14 38 | 1 19 | 21 39 | 0 29 | 22 30 | 0 58 | 22 36 | 0 2 | 3 26 | 1 14 | 24 34 | 4 35 | 23 25 | 23 23 | 24 9 | 17 18 | 6 6 |
| M 7 | 22 48 | 23 46 | 2 29 | 16 29 | 2 34 | 9 51 | 2 32 | 14 26 | 1 18 | 21 37 | 0 29 | 22 30 | 0 58 | 22 36 | 0 2 | 3 26 | 1 14 | 24 33 | 4 35 | 23 25 | 23 23 | 24 9 | 17 17 | 6 6 |
| T 8 | 22 53 | 24 21 | 1 11 | 16 59 | 2 25 | 10 4 | 2 36 | 14 14 | 1 17 | 21 35 | 0 29 | 22 30 | 0 58 | 22 37 | 0 2 | 3 26 | 1 15 | 24 33 | 4 35 | 23 25 | 23 23 | 24 9 | 17 17 | 6 5 |
| W 9 | 22 58 | 23 8 | 0n12 | 17 29 | 2 15 | 10 17 | 2 39 | 14 2 | 1 16 | 21 33 | 0 29 | 22 30 | 0 58 | 22 37 | 0 2 | 3 26 | 1 15 | 24 33 | 4 35 | 23 25 | 23 23 | 24 9 | 17 17 | 6 5 |
| T 10 | 23 3 | 20 17 | 1 33 | 17 59 | 2 5 | 10 30 | 2 42 | 13 50 | 1 15 | 21 30 | 0 29 | 22 30 | 0 58 | 22 37 | 0 2 | 3 25 | 1 15 | 24 32 | 4 35 | 23 25 | 23 23 | 24 9 | 17 17 | 6 5 |
| F 11 | 23 8 | 16 13 | 2 46 | 18 29 | 1 55 | 10 44 | 2 45 | 13 38 | 1 14 | 21 28 | 0 29 | 22 30 | 0 58 | 22 38 | 0 2 | 3 25 | 1 15 | 24 32 | 4 35 | 23 25 | 23 23 | 24 9 | 17 17 | 6 5 |
| S 12 | 23 12 | 11 20 | 3 47 | 18 59 | 1 44 | 10 58 | 2 48 | 13 26 | 1 13 | 21 26 | 0 29 | 22 30 | 0 57 | 22 38 | 0 2 | 3 25 | 1 15 | 24 32 | 4 35 | 23 25 | 23 24 | 24 10 | 17 17 | 6 5 |
| S 13 | 23 15 | 6 3 | 4 33 | 19 29 | 1 33 | 11 12 | 2 51 | 13 13 | 1 12 | 21 24 | 0 29 | 22 31 | 0 57 | 22 39 | 0 2 | 3 25 | 1 15 | 24 32 | 4 35 | 23 25 | 23 24 | 24 10 | 17 17 | 6 5 |
| M14 | 23 18 | 0 40 | 5 3 | 19 59 | 1 22 | 11 27 | 2 53 | 13 1 | 1 11 | 21 22 | 0 29 | 22 31 | 0 57 | 22 39 | 0 2 | 3 25 | 1 15 | 24 31 | 4 35 | 23 25 | 23 24 | 24 10 | 17 16 | 6 5 |
| T 15 | 23 21 | 4n36 | 5 16 | 20 28 | 1 11 | 11 42 | 2 55 | 12 48 | 1 10 | 21 19 | 0 29 | 22 31 | 0 57 | 22 39 | 0 2 | 3 25 | 1 15 | 24 31 | 4 35 | 23 25 | 23 24 | 24 10 | 17 16 | 6 5 |
| W16 | 23 23 | 9 32 | 5 14 | 20 57 | 0 59 | 11 56 | 2 57 | 12 36 | 1 10 | 21 17 | 0 29 | 22 31 | 0 57 | 22 40 | 0 2 | 3 25 | 1 15 | 24 31 | 4 35 | 23 25 | 23 24 | 24 10 | 17 16 | 6 5 |
| T 17 | 23 25 | 13 59 | 4 58 | 21 24 | 0 48 | 12 11 | 2 59 | 12 23 | 1 9 | 21 15 | 0 29 | 22 31 | 0 57 | 22 40 | 0 2 | 3 25 | 1 15 | 24 30 | 4 35 | 23 25 | 23 24 | 24 10 | 17 16 | 6 5 |
| F 18 | 23 27 | 17 50 | 4 29 | 21 51 | 0 36 | 12 26 | 3 1 | 12 10 | 1 8 | 21 12 | 0 30 | 22 31 | 0 57 | 22 41 | 0 2 | 3 24 | 1 15 | 24 30 | 4 35 | 23 25 | 23 24 | 24 11 | 17 15 | 6 5 |
| S 19 | 23 28 | 20 54 | 3 48 | 22 16 | 0 25 | 12 42 | 3 2 | 11 57 | 1 7 | 21 10 | 0 30 | 22 31 | 0 57 | 22 41 | 0 2 | 3 24 | 1 15 | 24 30 | 4 35 | 23 25 | 23 24 | 24 11 | 17 15 | 6 5 |
| S 20 | 23 28 | 23 4 | 2 58 | 22 40 | 0 13 | 12 57 | 3 3 | 11 44 | 1 6 | 21 7 | 0 30 | 22 31 | 0 57 | 22 41 | 0 2 | 3 24 | 1 15 | 24 29 | 4 35 | 23 25 | 23 24 | 24 11 | 17 15 | 6 5 |
| M21 | 23 29 | 24 13 | 2 0 | 23 1 | 0 2 | 13 12 | 3 4 | 11 31 | 1 5 | 21 5 | 0 30 | 22 32 | 0 57 | 22 42 | 0 2 | 3 24 | 1 15 | 24 29 | 4 35 | 23 25 | 23 25 | 24 11 | 17 15 | 6 5 |
| T 22 | 23 29 | 24 17 | 0 58 | 23 21 | 0n 9 | 13 28 | 3 5 | 11 18 | 1 4 | 21 3 | 0 30 | 22 32 | 0 57 | 22 42 | 0 2 | 3 24 | 1 15 | 24 29 | 4 35 | 23 25 | 23 25 | 24 11 | 17 14 | 6 5 |
| W23 | 23 28 | 23 14 | 0s 8 | 23 39 | 0 20 | 13 43 | 3 6 | 11 5 | 1 3 | 21 0 | 0 30 | 22 32 | 0 57 | 22 43 | 0 2 | 3 24 | 1 15 | 24 28 | 4 35 | 23 25 | 23 25 | 24 11 | 17 14 | 6 5 |
| T 24 | 23 27 | 21 8 | 1 14 | 23 55 | 0 30 | 13 59 | 3 7 | 10 51 | 1 2 | 20 58 | 0 30 | 22 32 | 0 57 | 22 43 | 0 2 | 3 24 | 1 15 | 24 28 | 4 35 | 23 25 | 23 25 | 24 11 | 17 14 | 6 5 |
| F 25 | 23 26 | 18 5 | 2 17 | 24 8 | 0 40 | 14 14 | 3 7 | 10 38 | 1 2 | 20 55 | 0 30 | 22 32 | 0 57 | 22 43 | 0 2 | 3 24 | 1 15 | 24 28 | 4 35 | 23 25 | 23 25 | 24 11 | 17 13 | 6 5 |
| S 26 | 23 24 | 14 12 | 3 14 | 24 18 | 0 49 | 14 30 | 3 7 | 10 25 | 1 1 | 20 53 | 0 30 | 22 32 | 0 56 | 22 44 | 0 2 | 3 24 | 1 15 | 24 27 | 4 35 | 23 25 | 23 25 | 24 11 | 17 13 | 6 5 |
| S 27 | 23 22 | 9 41 | 4 4 | 24 26 | 0 58 | 14 45 | 3 8 | 10 11 | 1 0 | 20 50 | 0 30 | 22 32 | 0 56 | 22 44 | 0 2 | 3 24 | 1 15 | 24 27 | 4 35 | 23 25 | 23 25 | 24 11 | 17 13 | 6 5 |
| M28 | 23 19 | 4 40 | 4 43 | 24 31 | 1 7 | 15 0 | 3 8 | 9 57 | 0 59 | 20 47 | 0 30 | 22 32 | 0 56 | 22 44 | 0 2 | 3 24 | 1 16 | 24 27 | 4 35 | 23 25 | 23 25 | 24 12 | 17 12 | 6 5 |
| T 29 | 23 16 | 0s38 | 5 8 | 24 33 | 1 14 | 15 16 | 3 7 | 9 44 | 0 58 | 20 45 | 0 30 | 22 32 | 0 56 | 22 45 | 0 2 | 3 24 | 1 16 | 24 26 | 4 35 | 23 25 | 23 25 | 24 12 | 17 12 | 6 5 |
| W30 | 23n13 | 6s 2 | 5s18 | 24n32 | 1n21 | 15n31 | 3s 7 | 9n30 | 0n57 | 20n42 | 0n30 | 22s33 | 0n56 | 22n45 | 0n 2 | 3s25 | 1s16 | 24n26 | 4n35 | 23s25 | 23s25 | 24n12 | 17n11 | 6s 5 |

Julian Day Number = 2339932.5, Delta T = 16.44 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'28, Lahiri = 19°35'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## JULY 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 37 53 | 9♋24'44 | 16♎37 | 10♋55 | 23♉55 | 8♍30 | 0♌ 5 | 0°R33 | 15♊53 | 24°R20 | 1♌ 4 | 3♑57 | 3♑47 | 12♊39 | 7♋38 | T 1 |
| F 2 | 18 41 50 | 10°21'55 | 0♏36 | 13° 4 | 24°55 | 9° 5 | 0°18 | 0♑29 | 15°57 | 24♓20 | 1° 6 | 3°58 | 3°44 | 12°46 | 7°45 | F 2 |
| S 3 | 18 45 46 | 11°19'06 | 14°57 | 15°12 | 25°55 | 9°40 | 0°31 | 0°25 | 16° 0 | 24°20 | 1° 8 | 3°58 | 3°41 | 12°53 | 7°51 | S 3 |
| S 4 | 18 49 43 | 12°16'17 | 29°37 | 17°19 | 26°55 | 10°15 | 0°44 | 0°20 | 16° 3 | 24°20 | 1° 9 | 3°59 | 3°37 | 12°59 | 7°57 | S 4 |
| M 5 | 18 53 39 | 13°13'28 | 14♐30 | 19°25 | 27°56 | 10°50 | 0°57 | 0°16 | 16° 7 | 24°19 | 1°11 | 3°59 | 3°34 | 13° 6 | 8° 4 | M 5 |
| T 6 | 18 57 36 | 14°10'39 | 29°30 | 21°29 | 28°58 | 11°26 | 1°10 | 0°12 | 16°10 | 24°19 | 1°12 | 4°R 0 | 3°31 | 13°13 | 8°10 | T 6 |
| W 7 | 19 1 33 | 15° 7'51 | 14♑30 | 23°32 | 29°59 | 12° 1 | 1°23 | 0° 8 | 16°13 | 24°19 | 1°14 | 4° 0 | 3°28 | 13°19 | 8°16 | W 7 |
| T 8 | 19 5 29 | 16° 5'02 | 29°20 | 25°33 | 1♊ 1 | 12°36 | 1°36 | 0° 4 | 16°16 | 24°19 | 1°16 | 3°59 | 3°25 | 13°26 | 8°23 | T 8 |
| F 9 | 19 9 26 | 17° 2'14 | 13♒53 | 27°32 | 2° 3 | 13°12 | 1°49 | 29♐59 | 16°19 | 24°18 | 1°17 | 3°58 | 3°22 | 13°33 | 8°29 | F 9 |
| S 10 | 19 13 22 | 17°59'26 | 28° 5 | 29°30 | 3° 5 | 13°47 | 2° 2 | 29°55 | 16°23 | 24°18 | 1°19 | 3°56 | 3°18 | 13°39 | 8°35 | S 10 |
| S 11 | 19 17 19 | 18°56'38 | 11♓50 | 1♌26 | 4° 8 | 14°23 | 2°15 | 29°51 | 16°26 | 24°17 | 1°21 | 3°54 | 3°15 | 13°46 | 8°42 | S 11 |
| M12 | 19 21 15 | 19°53'52 | 25° 9 | 3°20 | 5°11 | 14°59 | 2°28 | 29°47 | 16°29 | 24°17 | 1°23 | 3°53 | 3°12 | 13°53 | 8°48 | M12 |
| T 13 | 19 25 12 | 20°51'05 | 8♈ 4 | 5°13 | 6°14 | 15°35 | 2°41 | 29°43 | 16°32 | 24°16 | 1°24 | 3°51 | 3° 9 | 13°59 | 8°54 | T 13 |
| W14 | 19 29 8 | 21°48'20 | 20°36 | 7° 3 | 7°18 | 16°11 | 2°54 | 29°39 | 16°35 | 24°16 | 1°26 | 3°D51 | 3° 6 | 14° 6 | 9° 0 | W14 |
| T 15 | 19 33 5 | 22°45'35 | 2♉51 | 8°52 | 8°21 | 16°47 | 3° 7 | 29°35 | 16°38 | 24°15 | 1°28 | 3°51 | 3° 2 | 14°13 | 9° 7 | T 15 |
| F 16 | 19 37 2 | 23°42'52 | 14°52 | 10°39 | 9°25 | 17°23 | 3°20 | 29°32 | 16°41 | 24°15 | 1°29 | 3°52 | 2°59 | 14°19 | 9°13 | F 16 |
| S 17 | 19 40 58 | 24°40'09 | 26°44 | 12°24 | 10°29 | 17°59 | 3°33 | 29°28 | 16°44 | 24°14 | 1°31 | 3°54 | 2°56 | 14°26 | 9°19 | S 17 |
| S 18 | 19 44 55 | 25°37'26 | 8♊32 | 14° 8 | 11°33 | 18°35 | 3°47 | 29°24 | 16°47 | 24°13 | 1°33 | 3°55 | 2°53 | 14°33 | 9°25 | S 18 |
| M19 | 19 48 51 | 26°34'45 | 20°20 | 15°49 | 12°38 | 19°11 | 4° 0 | 29°20 | 16°50 | 24°13 | 1°34 | 3°57 | 2°50 | 14°39 | 9°32 | M19 |
| T 20 | 19 52 48 | 27°32'05 | 2♋11 | 17°29 | 13°43 | 19°48 | 4°13 | 29°17 | 16°53 | 24°12 | 1°36 | 3°R57 | 2°47 | 14°46 | 9°38 | T 20 |
| W21 | 19 56 44 | 28°29'25 | 14° 9 | 19° 7 | 14°48 | 20°24 | 4°26 | 29°13 | 16°56 | 24°11 | 1°38 | 3°57 | 2°43 | 14°52 | 9°44 | W21 |
| T 22 | 20 0 41 | 29°26'46 | 26°17 | 20°43 | 15°53 | 21° 1 | 4°40 | 29°10 | 16°59 | 24°10 | 1°40 | 3°55 | 2°40 | 14°59 | 9°50 | T 22 |
| F 23 | 20 4 37 | 0♌24'08 | 8♌34 | 22°17 | 16°58 | 21°37 | 4°53 | 29° 6 | 17° 1 | 24°10 | 1°41 | 3°52 | 2°37 | 15° 6 | 9°56 | F 23 |
| S 24 | 20 8 34 | 1°21'30 | 21° 4 | 23°50 | 18° 4 | 22°14 | 5° 6 | 29° 3 | 17° 4 | 24° 9 | 1°43 | 3°49 | 2°34 | 15°12 | 10° 2 | S 24 |
| S 25 | 20 12 31 | 2°18'53 | 3♍47 | 25°21 | 19° 9 | 22°51 | 5°19 | 28°59 | 17° 7 | 24° 8 | 1°45 | 3°44 | 2°31 | 15°19 | 10° 8 | S 25 |
| M26 | 20 16 27 | 3°16'17 | 16°44 | 26°50 | 20°15 | 23°27 | 5°32 | 28°56 | 17°10 | 24° 7 | 1°46 | 3°40 | 2°28 | 15°26 | 10°14 | M26 |
| T 27 | 20 20 24 | 4°13'41 | 29°54 | 28°17 | 21°21 | 24° 4 | 5°46 | 28°53 | 17°12 | 24° 6 | 1°48 | 3°35 | 2°24 | 15°32 | 10°20 | T 27 |
| W28 | 20 24 20 | 5°11'06 | 13♎19 | 29°42 | 22°27 | 24°41 | 5°59 | 28°50 | 17°15 | 24° 5 | 1°50 | 3°32 | 2°21 | 15°39 | 10°26 | W28 |
| T 29 | 20 28 17 | 6° 8'32 | 26°58 | 1♍ 6 | 23°34 | 25°18 | 6°12 | 28°47 | 17°18 | 24° 4 | 1°52 | 3°31 | 2°18 | 15°46 | 10°32 | T 29 |
| F 30 | 20 32 13 | 7° 5'58 | 10♏52 | 2°27 | 24°40 | 25°55 | 6°25 | 28°44 | 17°20 | 24° 3 | 1°53 | 3°D31 | 2°15 | 15°52 | 10°38 | F 30 |
| S 31 | 20 36 10 | 8♌ 3'25 | 25♏ 1 | 3♍46 | 25♊47 | 26♍33 | 6♌39 | 28♐41 | 17♊23 | 24♓ 2 | 1♌55 | 3♑31 | 2♑12 | 15♊59 | 10♋44 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 9 | 11s18 | 5s10 | 24n29 | 1n27 | 15n46 | 3s 7 | 9n16 | 0n56 | 20n39 | 0n30 | 22s33 | 0n56 | 22n46 | 0n 2 | 3s25 | 1s16 | 24n26 | 4n35 | 23s25 | 23s25 | 24n12 | 17n11 | 6s 5 |
| F 2 | 23 4 | 16 8 | 4 44 | 24 23 | 1 33 | 16 1 | 3 6 | 9 2 | 0 56 | 20 37 | 0 30 | 22 33 | 0 56 | 22 46 | 0 2 | 3 25 | 1 16 | 24 25 | 4 35 | 23 25 | 23 26 | 24 12 | 17 11 | 6 5 |
| S 3 | 23 0 | 20 10 | 4 0 | 24 14 | 1 38 | 16 16 | 3 6 | 8 48 | 0 55 | 20 34 | 0 30 | 22 33 | 0 56 | 22 46 | 0 2 | 3 25 | 1 16 | 24 25 | 4 35 | 23 25 | 23 26 | 24 12 | 17 10 | 6 5 |
| S 4 | 22 55 | 23 1 | 3 0 | 24 2 | 1 42 | 16 30 | 3 5 | 8 34 | 0 54 | 20 31 | 0 30 | 22 33 | 0 56 | 22 47 | 0 2 | 3 25 | 1 16 | 24 25 | 4 35 | 23 25 | 23 26 | 24 12 | 17 10 | 6 5 |
| M 5 | 22 49 | 24 20 | 1 46 | 23 48 | 1 45 | 16 45 | 3 4 | 8 20 | 0 53 | 20 29 | 0 30 | 22 33 | 0 56 | 22 47 | 0 2 | 3 25 | 1 16 | 24 24 | 4 35 | 23 25 | 23 26 | 24 12 | 17 9 | 6 5 |
| T 6 | 22 43 | 23 54 | 0 25 | 23 32 | 1 47 | 16 59 | 3 3 | 8 6 | 0 52 | 20 26 | 0 30 | 22 33 | 0 55 | 22 47 | 0 2 | 3 25 | 1 16 | 24 24 | 4 35 | 23 25 | 23 26 | 24 12 | 17 9 | 6 6 |
| W 7 | 22 37 | 21 44 | 0n58 | 23 13 | 1 49 | 17 13 | 3 2 | 7 51 | 0 51 | 20 23 | 0 31 | 22 33 | 0 55 | 22 48 | 0 2 | 3 25 | 1 16 | 24 24 | 4 35 | 23 25 | 23 26 | 24 12 | 17 8 | 6 6 |
| T 8 | 22 31 | 18 6 | 2 16 | 22 52 | 1 50 | 17 27 | 3 0 | 7 37 | 0 51 | 20 20 | 0 31 | 22 34 | 0 55 | 22 48 | 0 2 | 3 26 | 1 16 | 24 23 | 4 35 | 23 25 | 23 26 | 24 12 | 17 8 | 6 6 |
| F 9 | 22 23 | 13 26 | 3 24 | 22 30 | 1 50 | 17 41 | 2 59 | 7 23 | 0 50 | 20 17 | 0 31 | 22 34 | 0 55 | 22 48 | 0 2 | 3 26 | 1 16 | 24 23 | 4 36 | 23 25 | 23 26 | 24 12 | 17 7 | 6 6 |
| S 10 | 22 16 | 8 9 | 4 17 | 22 5 | 1 50 | 17 54 | 2 58 | 7 8 | 0 49 | 20 14 | 0 31 | 22 34 | 0 55 | 22 49 | 0 2 | 3 26 | 1 16 | 24 23 | 4 36 | 23 25 | 23 26 | 24 12 | 17 7 | 6 6 |
| S 11 | 22 8 | 2 37 | 4 53 | 21 39 | 1 49 | 18 8 | 2 56 | 6 54 | 0 48 | 20 12 | 0 31 | 22 34 | 0 55 | 22 49 | 0 2 | 3 26 | 1 16 | 24 22 | 4 36 | 23 25 | 23 26 | 24 12 | 17 6 | 6 6 |
| M12 | 22 0 | 2n51 | 5 13 | 21 11 | 1 48 | 18 20 | 2 54 | 6 39 | 0 47 | 20 9 | 0 31 | 22 34 | 0 55 | 22 49 | 0 2 | 3 27 | 1 16 | 24 22 | 4 36 | 23 25 | 23 26 | 24 12 | 17 6 | 6 6 |
| T 13 | 21 52 | 8 2 | 5 16 | 20 42 | 1 45 | 18 33 | 2 53 | 6 25 | 0 46 | 20 6 | 0 31 | 22 34 | 0 55 | 22 50 | 0 2 | 3 27 | 1 16 | 24 21 | 4 36 | 23 25 | 23 26 | 24 12 | 17 5 | 6 6 |
| W14 | 21 43 | 12 44 | 5 3 | 20 12 | 1 43 | 18 45 | 2 51 | 6 10 | 0 46 | 20 3 | 0 31 | 22 34 | 0 55 | 22 50 | 0 2 | 3 27 | 1 16 | 24 21 | 4 36 | 23 25 | 23 27 | 24 12 | 17 5 | 6 7 |
| T 15 | 21 33 | 16 49 | 4 37 | 19 40 | 1 39 | 18 57 | 2 49 | 5 55 | 0 45 | 20 0 | 0 31 | 22 34 | 0 54 | 22 50 | 0 2 | 3 27 | 1 16 | 24 21 | 4 36 | 23 25 | 23 27 | 24 12 | 17 4 | 6 7 |
| F 16 | 21 24 | 20 8 | 3 59 | 19 7 | 1 35 | 19 9 | 2 47 | 5 40 | 0 44 | 19 57 | 0 31 | 22 34 | 0 54 | 22 51 | 0 2 | 3 28 | 1 16 | 24 20 | 4 36 | 23 25 | 23 27 | 24 12 | 17 3 | 6 7 |
| S 17 | 21 14 | 22 33 | 3 11 | 18 34 | 1 31 | 19 21 | 2 44 | 5 25 | 0 43 | 19 54 | 0 31 | 22 34 | 0 54 | 22 51 | 0 2 | 3 28 | 1 16 | 24 20 | 4 36 | 23 25 | 23 27 | 24 12 | 17 3 | 6 7 |
| S 18 | 21 3 | 24 0 | 2 16 | 17 59 | 1 26 | 19 32 | 2 42 | 5 10 | 0 42 | 19 51 | 0 31 | 22 35 | 0 54 | 22 51 | 0 2 | 3 28 | 1 17 | 24 20 | 4 36 | 23 25 | 23 27 | 24 12 | 17 2 | 6 7 |
| M19 | 20 52 | 24 22 | 1 14 | 17 24 | 1 21 | 19 42 | 2 40 | 4 56 | 0 42 | 19 48 | 0 31 | 22 35 | 0 54 | 22 52 | 0 2 | 3 28 | 1 17 | 24 19 | 4 36 | 23 25 | 23 27 | 24 12 | 17 2 | 6 8 |
| T 20 | 20 41 | 23 37 | 0 10 | 16 49 | 1 15 | 19 53 | 2 38 | 4 40 | 0 41 | 19 45 | 0 31 | 22 35 | 0 54 | 22 52 | 0 2 | 3 29 | 1 17 | 24 19 | 4 36 | 23 25 | 23 27 | 24 11 | 17 1 | 6 8 |
| W21 | 20 30 | 21 48 | 0s56 | 16 12 | 1 9 | 20 3 | 2 35 | 4 25 | 0 40 | 19 42 | 0 32 | 22 35 | 0 54 | 22 52 | 0 2 | 3 29 | 1 17 | 24 19 | 4 36 | 23 25 | 23 27 | 24 11 | 17 0 | 6 8 |
| T 22 | 20 18 | 18 58 | 2 0 | 15 36 | 1 2 | 20 12 | 2 33 | 4 10 | 0 39 | 19 38 | 0 32 | 22 35 | 0 54 | 22 52 | 0 2 | 3 29 | 1 17 | 24 18 | 4 36 | 23 25 | 23 27 | 24 11 | 17 0 | 6 8 |
| F 23 | 20 6 | 15 16 | 2 59 | 14 58 | 0 55 | 20 21 | 2 30 | 3 55 | 0 39 | 19 35 | 0 32 | 22 35 | 0 53 | 22 53 | 0 2 | 3 30 | 1 17 | 24 18 | 4 36 | 23 25 | 23 27 | 24 11 | 16 59 | 6 8 |
| S 24 | 19 53 | 10 51 | 3 50 | 14 21 | 0 48 | 20 30 | 2 27 | 3 40 | 0 38 | 19 32 | 0 32 | 22 35 | 0 53 | 22 53 | 0 2 | 3 30 | 1 17 | 24 18 | 4 36 | 23 25 | 23 27 | 24 11 | 16 58 | 6 9 |
| S 25 | 19 41 | 5 55 | 4 31 | 13 43 | 0 40 | 20 38 | 2 24 | 3 25 | 0 37 | 19 29 | 0 32 | 22 35 | 0 53 | 22 53 | 0 2 | 3 31 | 1 17 | 24 17 | 4 36 | 23 26 | 23 27 | 24 11 | 16 58 | 6 9 |
| M26 | 19 27 | 0 39 | 4 59 | 13 6 | 0 32 | 20 46 | 2 22 | 3 9 | 0 36 | 19 26 | 0 32 | 22 35 | 0 53 | 22 54 | 0 2 | 3 31 | 1 17 | 24 17 | 4 36 | 23 26 | 23 27 | 24 11 | 16 57 | 6 9 |
| T 27 | 19 14 | 4s44 | 5 12 | 12 28 | 0 24 | 20 53 | 2 19 | 2 54 | 0 35 | 19 23 | 0 32 | 22 36 | 0 53 | 22 54 | 0 2 | 3 31 | 1 17 | 24 17 | 4 37 | 23 26 | 23 27 | 24 11 | 16 56 | 6 9 |
| W28 | 19 0 | 10 0 | 5 8 | 11 50 | 0 15 | 21 0 | 2 16 | 2 39 | 0 35 | 19 20 | 0 32 | 22 36 | 0 53 | 22 54 | 0 2 | 3 32 | 1 17 | 24 17 | 4 37 | 23 26 | 23 27 | 24 11 | 16 55 | 6 10 |
| T 29 | 18 46 | 14 52 | 4 47 | 11 12 | 0 6 | 21 7 | 2 13 | 2 23 | 0 34 | 19 16 | 0 32 | 22 36 | 0 53 | 22 54 | 0 2 | 3 32 | 1 17 | 24 16 | 4 37 | 23 26 | 23 28 | 24 11 | 16 55 | 6 10 |
| F 30 | 18 32 | 19 3 | 4 9 | 10 34 | 0s 3 | 21 13 | 2 10 | 2 8 | 0 33 | 19 13 | 0 32 | 22 36 | 0 52 | 22 55 | 0 2 | 3 33 | 1 17 | 24 16 | 4 37 | 23 26 | 23 28 | 24 10 | 16 54 | 6 10 |
| S 31 | 18n17 | 22s12 | 3s15 | 9n57 | 0s12 | 21n18 | 2s 7 | 1n52 | 0n32 | 19n10 | 0n32 | 22s36 | 0n52 | 22n55 | 0n 2 | 3s33 | 1s17 | 24n16 | 4n37 | 23s26 | 23s28 | 24n10 | 16n53 | 6s11 |

Julian Day Number = 2339962.5, Delta T = 16.40 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'33, Lahiri = 19°35'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## AUGUST 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 40 6 | 9♌ 0'53 | 9♐22 | 5♍ 4 | 26♊54 | 27♍10 | 6♌52 | 28°R38 | 17♊25 | 24°R 1 | 1♌57 | 3♑33 | 2♑ 8 | 16♊ 6 | 10♋50 | S 1 |
| M 2 | 20 44 3 | 9°58'21 | 23°53 | 6°19 | 28° 1 | 27°47 | 7° 5 | 28♐35 | 17°28 | 24♓ 0 | 1°59 | 3°34 | 2° 5 | 16°12 | 10°56 | M 2 |
| T 3 | 20 48 0 | 10°55'51 | 8♑31 | 7°33 | 29° 8 | 28°25 | 7°18 | 28°33 | 17°30 | 23°59 | 2° 0 | 3°R34 | 2° 2 | 16°19 | 11° 2 | T 3 |
| W 4 | 20 51 56 | 11°53'21 | 23°10 | 8°44 | 0♋15 | 29° 2 | 7°32 | 28°30 | 17°33 | 23°58 | 2° 2 | 3°33 | 1°59 | 16°26 | 11° 8 | W 4 |
| T 5 | 20 55 53 | 12°50'52 | 7♒44 | 9°53 | 1°23 | 29°40 | 7°45 | 28°27 | 17°35 | 23°57 | 2° 4 | 3°30 | 1°56 | 16°32 | 11°14 | T 5 |
| F 6 | 20 59 49 | 13°48'24 | 22° 7 | 10°59 | 2°30 | 0♎17 | 7°58 | 28°25 | 17°37 | 23°56 | 2° 5 | 3°25 | 1°53 | 16°39 | 11°19 | F 6 |
| S 7 | 21 3 46 | 14°45'58 | 6♓13 | 12° 3 | 3°38 | 0°55 | 8°11 | 28°23 | 17°40 | 23°55 | 2° 7 | 3°18 | 1°49 | 16°46 | 11°25 | S 7 |
| S 8 | 21 7 42 | 15°43'32 | 19°57 | 13° 5 | 4°46 | 1°33 | 8°24 | 28°20 | 17°42 | 23°53 | 2° 9 | 3°12 | 1°46 | 16°52 | 11°31 | S 8 |
| M 9 | 21 11 39 | 16°41'08 | 3♈17 | 14° 4 | 5°54 | 2°10 | 8°38 | 28°18 | 17°44 | 23°52 | 2°10 | 3° 5 | 1°43 | 16°59 | 11°36 | M 9 |
| T 10 | 21 15 35 | 17°38'46 | 16°13 | 15° 0 | 7° 2 | 2°48 | 8°51 | 28°16 | 17°46 | 23°51 | 2°12 | 3° 0 | 1°40 | 17° 6 | 11°42 | T 10 |
| W11 | 21 19 32 | 18°36'25 | 28°47 | 15°53 | 8°10 | 3°26 | 9° 4 | 28°14 | 17°48 | 23°50 | 2°14 | 2°56 | 1°37 | 17°12 | 11°47 | W11 |
| T 12 | 21 23 29 | 19°34'06 | 11♉ 3 | 16°43 | 9°19 | 4° 4 | 9°17 | 28°12 | 17°51 | 23°48 | 2°15 | 2°54 | 1°34 | 17°19 | 11°53 | T 12 |
| F 13 | 21 27 25 | 20°31'48 | 23° 4 | 17°30 | 10°28 | 4°42 | 9°30 | 28°10 | 17°53 | 23°47 | 2°17 | 2°D53 | 1°30 | 17°25 | 11°58 | F 13 |
| S 14 | 21 31 22 | 21°29'32 | 4♊57 | 18°14 | 11°36 | 5°21 | 9°43 | 28° 8 | 17°55 | 23°46 | 2°19 | 2°54 | 1°27 | 17°32 | 12° 4 | S 14 |
| S 15 | 21 35 18 | 22°27'17 | 16°45 | 18°53 | 12°45 | 5°59 | 9°56 | 28° 7 | 17°57 | 23°44 | 2°20 | 2°56 | 1°24 | 17°39 | 12° 9 | S 15 |
| M16 | 21 39 15 | 23°25'04 | 28°34 | 19°29 | 13°54 | 6°37 | 10° 9 | 28° 5 | 17°59 | 23°43 | 2°22 | 2°R56 | 1°21 | 17°45 | 12°15 | M16 |
| T 17 | 21 43 11 | 24°22'53 | 10♋29 | 20° 1 | 15° 3 | 7°16 | 10°22 | 28° 4 | 18° 0 | 23°42 | 2°24 | 2°56 | 1°18 | 17°52 | 12°20 | T 17 |
| W18 | 21 47 8 | 25°20'44 | 22°34 | 20°29 | 16°12 | 7°54 | 10°35 | 28° 2 | 18° 2 | 23°40 | 2°25 | 2°54 | 1°14 | 17°59 | 12°25 | W18 |
| T 19 | 21 51 4 | 26°18'36 | 4♌52 | 20°52 | 17°22 | 8°33 | 10°48 | 28° 1 | 18° 4 | 23°39 | 2°27 | 2°50 | 1°11 | 18° 5 | 12°30 | T 19 |
| F 20 | 21 55 1 | 27°16'29 | 17°25 | 21°10 | 18°31 | 9°11 | 11° 1 | 28° 0 | 18° 6 | 23°37 | 2°28 | 2°43 | 1° 8 | 18°12 | 12°36 | F 20 |
| S 21 | 21 58 58 | 28°14'24 | 0♍14 | 21°23 | 19°41 | 9°50 | 11°14 | 27°58 | 18° 8 | 23°36 | 2°30 | 2°35 | 1° 5 | 18°19 | 12°41 | S 21 |
| S 22 | 22 2 54 | 29°12'21 | 13°19 | 21°31 | 20°51 | 10°29 | 11°27 | 27°57 | 18° 9 | 23°34 | 2°32 | 2°25 | 1° 2 | 18°25 | 12°46 | S 22 |
| M23 | 22 6 51 | 0♍10'19 | 26°38 | 21°R34 | 22° 0 | 11° 7 | 11°40 | 27°56 | 18°11 | 23°33 | 2°33 | 2°16 | 0°59 | 18°32 | 12°51 | M23 |
| T 24 | 22 10 47 | 1° 8'19 | 10♎10 | 21°30 | 23°10 | 11°46 | 11°53 | 27°56 | 18°12 | 23°31 | 2°35 | 2° 7 | 0°55 | 18°39 | 12°56 | T 24 |
| W25 | 22 14 44 | 2° 6'19 | 23°53 | 21°21 | 24°20 | 12°25 | 12° 6 | 27°55 | 18°14 | 23°30 | 2°36 | 1°59 | 0°52 | 18°45 | 13° 1 | W25 |
| T 26 | 22 18 40 | 3° 4'22 | 7♏44 | 21° 5 | 25°31 | 13° 4 | 12°19 | 27°54 | 18°15 | 23°28 | 2°38 | 1°54 | 0°49 | 18°52 | 13° 6 | T 26 |
| F 27 | 22 22 37 | 4° 2'26 | 21°42 | 20°43 | 26°41 | 13°43 | 12°31 | 27°54 | 18°17 | 23°27 | 2°39 | 1°52 | 0°46 | 18°59 | 13°10 | F 27 |
| S 28 | 22 26 33 | 5° 0'31 | 5♐46 | 20°15 | 27°51 | 14°22 | 12°44 | 27°53 | 18°18 | 23°25 | 2°41 | 1°D51 | 0°43 | 19° 5 | 13°15 | S 28 |
| S 29 | 22 30 30 | 5°58'37 | 19°55 | 19°41 | 29° 2 | 15° 2 | 12°57 | 27°53 | 18°20 | 23°24 | 2°42 | 1°52 | 0°39 | 19°12 | 13°20 | S 29 |
| M30 | 22 34 27 | 6°56'45 | 4♑ 8 | 19° 2 | 0♌12 | 15°41 | 13° 9 | 27°53 | 18°21 | 23°22 | 2°44 | 1°R52 | 0°36 | 19°18 | 13°24 | M30 |
| T 31 | 22 38 23 | 7♍54'55 | 18♑22 | 18♍16 | 1♌23 | 16♎20 | 13♌22 | 27♐52 | 18♊22 | 23♓21 | 2♌45 | 1♑51 | 0♑33 | 19♊25 | 13♋29 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 2 | 24s 0 | 2s 8 | 9n20 | 0s22 | 21n23 | 2s 4 | 1n37 | 0n32 | 19n 7 | 0n32 | 22s36 | 0n52 | 22n55 | 0n 2 | 3s33 | 1s17 | 24n15 | 4n37 | 23s26 | 23s28 | 24n10 | 16n52 | 6s11 |
| M 2 | 17 47 | 24 13 | 0 53 | 8 43 | 0 32 | 21 27 | 2 0 | 1 21 | 0 31 | 19 3 | 0 32 | 22 36 | 0 52 | 22 55 | 0 2 | 3 34 | 1 17 | 24 15 | 4 37 | 23 26 | 23 28 | 24 10 | 16 52 | 6 11 |
| T 3 | 17 31 | 22 45 | 0n27 | 8 6 | 0 42 | 21 31 | 1 57 | 1 6 | 0 30 | 19 0 | 0 33 | 22 36 | 0 52 | 22 56 | 0 2 | 3 34 | 1 17 | 24 15 | 4 37 | 23 26 | 23 28 | 24 10 | 16 51 | 6 11 |
| W 4 | 17 15 | 19 46 | 1 45 | 7 30 | 0 52 | 21 35 | 1 54 | 0 50 | 0 29 | 18 57 | 0 33 | 22 36 | 0 52 | 22 56 | 0 2 | 3 35 | 1 17 | 24 14 | 4 37 | 23 26 | 23 28 | 24 10 | 16 50 | 6 12 |
| T 5 | 16 59 | 15 33 | 2 55 | 6 55 | 1 2 | 21 38 | 1 51 | 0 34 | 0 29 | 18 53 | 0 33 | 22 37 | 0 52 | 22 56 | 0 2 | 3 35 | 1 17 | 24 14 | 4 37 | 23 26 | 23 28 | 24 10 | 16 49 | 6 12 |
| F 6 | 16 43 | 10 29 | 3 53 | 6 20 | 1 13 | 21 40 | 1 47 | 0 19 | 0 28 | 18 50 | 0 33 | 22 37 | 0 51 | 22 56 | 0 2 | 3 36 | 1 17 | 24 14 | 4 37 | 23 26 | 23 28 | 24 9 | 16 49 | 6 12 |
| S 7 | 16 26 | 4 58 | 4 36 | 5 46 | 1 23 | 21 42 | 1 44 | 0 3 | 0 27 | 18 47 | 0 33 | 22 37 | 0 51 | 22 56 | 0 2 | 3 36 | 1 17 | 24 13 | 4 37 | 23 26 | 23 28 | 24 9 | 16 48 | 6 13 |
| S 8 | 16 9 | 0n38 | 5 1 | 5 13 | 1 34 | 21 43 | 1 40 | 0s13 | 0 26 | 18 43 | 0 33 | 22 37 | 0 51 | 22 57 | 0 2 | 3 37 | 1 17 | 24 13 | 4 38 | 23 26 | 23 28 | 24 9 | 16 47 | 6 13 |
| M 9 | 15 52 | 6 2 | 5 9 | 4 40 | 1 45 | 21 44 | 1 37 | 0 28 | 0 26 | 18 40 | 0 33 | 22 37 | 0 51 | 22 57 | 0 2 | 3 37 | 1 17 | 24 13 | 4 38 | 23 27 | 23 28 | 24 9 | 16 46 | 6 13 |
| T 10 | 15 34 | 11 1 | 5 1 | 4 9 | 1 56 | 21 44 | 1 34 | 0 44 | 0 25 | 18 37 | 0 33 | 22 37 | 0 51 | 22 57 | 0 2 | 3 38 | 1 17 | 24 13 | 4 38 | 23 27 | 23 28 | 24 9 | 16 45 | 6 14 |
| W11 | 15 16 | 15 24 | 4 39 | 3 38 | 2 6 | 21 44 | 1 30 | 1 0 | 0 24 | 18 33 | 0 33 | 22 37 | 0 51 | 22 57 | 0 2 | 3 38 | 1 17 | 24 12 | 4 38 | 23 27 | 23 28 | 24 8 | 16 44 | 6 14 |
| T 12 | 14 58 | 19 1 | 4 4 | 3 9 | 2 17 | 21 43 | 1 27 | 1 16 | 0 23 | 18 30 | 0 33 | 22 37 | 0 51 | 22 58 | 0 2 | 3 39 | 1 18 | 24 12 | 4 38 | 23 27 | 23 28 | 24 8 | 16 44 | 6 15 |
| F 13 | 14 40 | 21 46 | 3 19 | 2 41 | 2 28 | 21 41 | 1 23 | 1 32 | 0 23 | 18 26 | 0 33 | 22 38 | 0 50 | 22 58 | 0 2 | 3 40 | 1 18 | 24 12 | 4 38 | 23 27 | 23 28 | 24 8 | 16 43 | 6 15 |
| S 14 | 14 22 | 23 32 | 2 25 | 2 14 | 2 39 | 21 39 | 1 19 | 1 47 | 0 22 | 18 23 | 0 34 | 22 38 | 0 50 | 22 58 | 0 2 | 3 40 | 1 18 | 24 11 | 4 38 | 23 27 | 23 28 | 24 8 | 16 42 | 6 15 |
| S 15 | 14 3 | 24 15 | 1 26 | 1 49 | 2 49 | 21 36 | 1 16 | 2 3 | 0 21 | 18 20 | 0 34 | 22 38 | 0 50 | 22 58 | 0 2 | 3 41 | 1 18 | 24 11 | 4 38 | 23 27 | 23 28 | 24 8 | 16 41 | 6 16 |
| M16 | 13 44 | 23 52 | 0 24 | 1 25 | 2 59 | 21 33 | 1 12 | 2 19 | 0 20 | 18 16 | 0 34 | 22 38 | 0 50 | 22 58 | 0 2 | 3 41 | 1 18 | 24 11 | 4 38 | 23 27 | 23 28 | 24 7 | 16 40 | 6 16 |
| T 17 | 13 25 | 22 23 | 0s41 | 1 3 | 3 10 | 21 29 | 1 9 | 2 35 | 0 20 | 18 13 | 0 34 | 22 38 | 0 50 | 22 58 | 0 2 | 3 42 | 1 18 | 24 11 | 4 39 | 23 27 | 23 28 | 24 7 | 16 39 | 6 17 |
| W18 | 13 6 | 19 53 | 1 44 | 0 43 | 3 20 | 21 25 | 1 5 | 2 51 | 0 19 | 18 9 | 0 34 | 22 38 | 0 50 | 22 59 | 0 2 | 3 42 | 1 18 | 24 10 | 4 39 | 23 27 | 23 28 | 24 7 | 16 38 | 6 17 |
| T 19 | 12 46 | 16 26 | 2 43 | 0 25 | 3 29 | 21 20 | 1 2 | 3 7 | 0 18 | 18 6 | 0 34 | 22 38 | 0 50 | 22 59 | 0 2 | 3 43 | 1 18 | 24 10 | 4 39 | 23 27 | 23 28 | 24 7 | 16 38 | 6 17 |
| F 20 | 12 26 | 12 13 | 3 35 | 0 10 | 3 38 | 21 14 | 0 58 | 3 23 | 0 18 | 18 2 | 0 34 | 22 38 | 0 49 | 22 59 | 0 2 | 3 44 | 1 18 | 24 10 | 4 39 | 23 27 | 23 28 | 24 6 | 16 37 | 6 18 |
| S 21 | 12 6 | 7 23 | 4 18 | 0s 3 | 3 47 | 21 8 | 0 54 | 3 39 | 0 17 | 17 59 | 0 34 | 22 39 | 0 49 | 22 59 | 0 2 | 3 44 | 1 18 | 24 10 | 4 39 | 23 27 | 23 28 | 24 6 | 16 36 | 6 18 |
| S 22 | 11 46 | 2 8 | 4 48 | 0 14 | 3 55 | 21 1 | 0 51 | 3 54 | 0 16 | 17 56 | 0 34 | 22 39 | 0 49 | 22 59 | 0 2 | 3 45 | 1 18 | 24 9 | 4 39 | 23 27 | 23 29 | 24 6 | 16 35 | 6 19 |
| M23 | 11 26 | 3s18 | 5 3 | 0 22 | 4 2 | 20 54 | 0 47 | 4 10 | 0 15 | 17 52 | 0 35 | 22 39 | 0 49 | 22 59 | 0 2 | 3 45 | 1 18 | 24 9 | 4 39 | 23 28 | 23 29 | 24 5 | 16 34 | 6 19 |
| T 24 | 11 5 | 8 39 | 5 2 | 0 26 | 4 9 | 20 46 | 0 44 | 4 26 | 0 15 | 17 49 | 0 35 | 22 39 | 0 49 | 23 0 | 0 2 | 3 46 | 1 18 | 24 9 | 4 39 | 23 28 | 23 29 | 24 5 | 16 33 | 6 20 |
| W25 | 10 45 | 13 40 | 4 43 | 0 28 | 4 15 | 20 38 | 0 40 | 4 42 | 0 14 | 17 45 | 0 35 | 22 39 | 0 49 | 23 0 | 0 2 | 3 47 | 1 18 | 24 9 | 4 39 | 23 28 | 23 29 | 24 5 | 16 32 | 6 20 |
| T 26 | 10 24 | 18 1 | 4 8 | 0 26 | 4 19 | 20 29 | 0 36 | 4 58 | 0 13 | 17 42 | 0 35 | 22 39 | 0 48 | 23 0 | 0 2 | 3 47 | 1 18 | 24 8 | 4 40 | 23 28 | 23 29 | 24 5 | 16 31 | 6 21 |
| F 27 | 10 3 | 21 24 | 3 17 | 0 20 | 4 23 | 20 19 | 0 33 | 5 14 | 0 13 | 17 38 | 0 35 | 22 39 | 0 48 | 23 0 | 0 2 | 3 48 | 1 18 | 24 8 | 4 40 | 23 28 | 23 29 | 24 4 | 16 30 | 6 21 |
| S 28 | 9 41 | 23 31 | 2 15 | 0 11 | 4 25 | 20 9 | 0 29 | 5 30 | 0 12 | 17 35 | 0 35 | 22 40 | 0 48 | 23 0 | 0 2 | 3 49 | 1 18 | 24 8 | 4 40 | 23 28 | 23 29 | 24 4 | 16 29 | 6 22 |
| S 29 | 9 20 | 24 9 | 1 3 | 0n 1 | 4 25 | 19 58 | 0 26 | 5 45 | 0 11 | 17 31 | 0 35 | 22 40 | 0 48 | 23 0 | 0 2 | 3 49 | 1 18 | 24 8 | 4 40 | 23 28 | 23 29 | 24 4 | 16 28 | 6 22 |
| M30 | 8 59 | 23 13 | 0n12 | 0 18 | 4 24 | 19 47 | 0 22 | 6 1 | 0 10 | 17 28 | 0 35 | 22 40 | 0 48 | 23 0 | 0 2 | 3 50 | 1 18 | 24 7 | 4 40 | 23 28 | 23 29 | 24 3 | 16 27 | 6 23 |
| T 31 | 8n37 | 20s47 | 1n27 | 0n38 | 4s21 | 19n35 | 0s19 | 6s17 | 0n10 | 17n24 | 0n35 | 22s40 | 0n48 | 23n 1 | 0n 2 | 3s50 | 1s18 | 24n 7 | 4n40 | 23s28 | 23s29 | 24n 3 | 16n27 | 6s23 |

Julian Day Number = 2339993.5, Delta T = 16.37 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'37, Lahiri = 19°35'37Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## SEPTEMBER 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 22 42 20 | 8♍53'06 | 2♒36 | 17°R26 | 2♌33 | 17♎ 0 | 13♌34 | 27°D52 | 18♊23 | 23°R19 | 2♌47 | 1°R48 | 0♋30 | 19♊32 | 13♋34 | W 1 |
| T 2 | 22 46 16 | 9°51'18 | 16°46 | 16♍32 | 3°44 | 17°39 | 13°47 | 27♐52 | 18°24 | 23♓17 | 2°48 | 1♋42 | 0°27 | 19°38 | 13°38 | T 2 |
| F 3 | 22 50 13 | 10°49'32 | 0♓47 | 15°35 | 4°55 | 18°19 | 13°59 | 27°52 | 18°26 | 23°16 | 2°49 | 1°33 | 0°24 | 19°45 | 13°42 | F 3 |
| S 4 | 22 54 9 | 11°47'48 | 14°35 | 14°35 | 6° 6 | 18°58 | 14°12 | 27°53 | 18°27 | 23°14 | 2°51 | 1°23 | 0°20 | 19°52 | 13°47 | S 4 |
| S 5 | 22 58 6 | 12°46'05 | 28° 7 | 13°35 | 7°17 | 19°38 | 14°24 | 27°53 | 18°28 | 23°13 | 2°52 | 1°11 | 0°17 | 19°58 | 13°51 | S 5 |
| M 6 | 23 2 2 | 13°44'25 | 11♈19 | 12°35 | 8°29 | 20°18 | 14°37 | 27°53 | 18°28 | 23°11 | 2°54 | 1° 0 | 0°14 | 20° 5 | 13°55 | M 6 |
| T 7 | 23 5 59 | 14°42'46 | 24°11 | 11°37 | 9°40 | 20°58 | 14°49 | 27°54 | 18°29 | 23° 9 | 2°55 | 0°50 | 0°11 | 20°12 | 13°59 | T 7 |
| W 8 | 23 9 55 | 15°41'09 | 6♉43 | 10°42 | 10°51 | 21°37 | 15° 1 | 27°54 | 18°30 | 23° 8 | 2°56 | 0°42 | 0° 8 | 20°18 | 14° 4 | W 8 |
| T 9 | 23 13 52 | 16°39'35 | 18°58 | 9°52 | 12° 3 | 22°17 | 15°13 | 27°55 | 18°31 | 23° 6 | 2°58 | 0°36 | 0° 5 | 20°25 | 14° 8 | T 9 |
| F 10 | 23 17 49 | 17°38'03 | 0♊59 | 9° 8 | 13°15 | 22°57 | 15°25 | 27°56 | 18°32 | 23° 4 | 2°59 | 0°33 | 0° 1 | 20°32 | 14°12 | F 10 |
| S 11 | 23 21 45 | 18°36'33 | 12°51 | 8°30 | 14°26 | 23°37 | 15°38 | 27°57 | 18°32 | 23° 3 | 3° 0 | 0°32 | 29♐58 | 20°38 | 14°15 | S 11 |
| S 12 | 23 25 42 | 19°35'05 | 24°39 | 8° 1 | 15°38 | 24°18 | 15°50 | 27°58 | 18°33 | 23° 1 | 3° 2 | 0°32 | 29°55 | 20°45 | 14°19 | S 12 |
| M13 | 23 29 38 | 20°33'39 | 6♋29 | 7°40 | 16°50 | 24°58 | 16° 2 | 27°59 | 18°34 | 22°59 | 3° 3 | 0°32 | 29°52 | 20°52 | 14°23 | M13 |
| T 14 | 23 33 35 | 21°32'15 | 18°26 | 7°28 | 18° 2 | 25°38 | 16°13 | 28° 0 | 18°34 | 22°58 | 3° 4 | 0°31 | 29°49 | 20°58 | 14°27 | T 14 |
| W15 | 23 37 31 | 22°30'54 | 0♌36 | 7°D27 | 19°14 | 26°18 | 16°25 | 28° 1 | 18°35 | 22°56 | 3° 5 | 0°28 | 29°45 | 21° 5 | 14°30 | W15 |
| T 16 | 23 41 28 | 23°29'35 | 13° 1 | 7°34 | 20°26 | 26°59 | 16°37 | 28° 3 | 18°35 | 22°54 | 3° 6 | 0°22 | 29°42 | 21°11 | 14°34 | T 16 |
| F 17 | 23 45 24 | 24°28'17 | 25°46 | 7°52 | 21°38 | 27°39 | 16°49 | 28° 4 | 18°36 | 22°53 | 3° 8 | 0°13 | 29°39 | 21°18 | 14°37 | F 17 |
| S 18 | 23 49 21 | 25°27'02 | 8♍52 | 8°19 | 22°51 | 28°20 | 17° 1 | 28° 6 | 18°36 | 22°51 | 3° 9 | 0° 3 | 29°36 | 21°25 | 14°41 | S 18 |
| S 19 | 23 53 18 | 26°25'49 | 22°18 | 8°55 | 24° 3 | 29° 1 | 17°12 | 28° 7 | 18°36 | 22°49 | 3°10 | 29♐50 | 29°33 | 21°31 | 14°44 | S 19 |
| M20 | 23 57 14 | 27°24'38 | 6♎ 1 | 9°40 | 25°16 | 29°41 | 17°24 | 28° 9 | 18°36 | 22°48 | 3°11 | 29°38 | 29°30 | 21°38 | 14°47 | M20 |
| T 21 | 0 1 11 | 28°23'29 | 20° 0 | 10°33 | 26°28 | 0♏22 | 17°35 | 28°11 | 18°36 | 22°46 | 3°12 | 29°26 | 29°26 | 21°45 | 14°50 | T 21 |
| W22 | 0 5 7 | 29°22'22 | 4♏ 7 | 11°34 | 27°41 | 1° 3 | 17°47 | 28°13 | 18°37 | 22°45 | 3°13 | 29°17 | 29°23 | 21°51 | 14°54 | W22 |
| T 23 | 0 9 4 | 0♎21'17 | 18°20 | 12°42 | 28°53 | 1°44 | 17°58 | 28°15 | 18°37 | 22°43 | 3°14 | 29°10 | 29°20 | 21°58 | 14°57 | T 23 |
| F 24 | 0 13 0 | 1°20'13 | 2♐34 | 13°56 | 0♍ 6 | 2°25 | 18° 9 | 28°17 | 18°R37 | 22°41 | 3°15 | 29° 6 | 29°17 | 22° 5 | 14°59 | F 24 |
| S 25 | 0 16 57 | 2°19'12 | 16°46 | 15°15 | 1°19 | 3° 6 | 18°20 | 28°20 | 18°37 | 22°40 | 3°16 | 29° 4 | 29°14 | 22°11 | 15° 2 | S 25 |
| S 26 | 0 20 53 | 3°18'12 | 0♑54 | 16°40 | 2°32 | 3°47 | 18°31 | 28°22 | 18°37 | 22°38 | 3°17 | 29° 4 | 29°11 | 22°18 | 15° 5 | S 26 |
| M27 | 0 24 50 | 4°17'14 | 14°57 | 18° 9 | 3°45 | 4°28 | 18°42 | 28°24 | 18°36 | 22°36 | 3°18 | 29° 4 | 29° 7 | 22°25 | 15° 8 | M27 |
| T 28 | 0 28 47 | 5°16'17 | 28°55 | 19°41 | 4°58 | 5° 9 | 18°53 | 28°27 | 18°36 | 22°35 | 3°19 | 29° 2 | 29° 4 | 22°31 | 15°10 | T 28 |
| W29 | 0 32 43 | 6°15'22 | 12♒47 | 21°16 | 6°11 | 5°51 | 19° 4 | 28°29 | 18°36 | 22°33 | 3°20 | 28°59 | 29° 1 | 22°38 | 15°13 | W29 |
| T 30 | 0 36 40 | 7♎14'29 | 26♒31 | 22♍54 | 7♍24 | 6♏32 | 19♌15 | 28♐32 | 18♊36 | 22♓32 | 3♌21 | 28♐52 | 28♐58 | 22♊44 | 15♋15 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | | |
| W 1 | 8n15 | 17s 5 | 2n36 | 1n 2 | 4s17 | 19n22 | 0s15 | 6s33 | 0n 9 | 17n21 | 0n36 | 22s40 | 0n48 | 23n 1 | 0n 2 | 3s51 | 1s18 | 24n 7 | 4n40 | 23s28 | 23s29 | 24n 3 | 16n26 | 6s24 |
| T 2 | 7 53 | 12 25 | 3 35 | 1 29 | 4 10 | 19 9 | 0 12 | 6 49 | 0 8 | 17 17 | 0 36 | 22 40 | 0 47 | 23 1 | 0 2 | 3 52 | 1 18 | 24 7 | 4 41 | 23 28 | 23 29 | 24 2 | 16 25 | 6 24 |
| F 3 | 7 31 | 7 9 | 4 20 | 1 58 | 4 2 | 18 56 | 0 8 | 7 4 | 0 8 | 17 14 | 0 36 | 22 40 | 0 47 | 23 1 | 0 2 | 3 52 | 1 18 | 24 7 | 4 41 | 23 28 | 23 29 | 24 2 | 16 24 | 6 25 |
| S 4 | 7 9 | 1 38 | 4 49 | 2 31 | 3 52 | 18 42 | 0 5 | 7 20 | 0 7 | 17 10 | 0 36 | 22 41 | 0 47 | 23 1 | 0 2 | 3 53 | 1 18 | 24 6 | 4 41 | 23 28 | 23 29 | 24 2 | 16 23 | 6 25 |
| S 5 | 6 47 | 3n52 | 5 2 | 3 5 | 3 39 | 18 27 | 0 2 | 7 36 | 0 6 | 17 7 | 0 36 | 22 41 | 0 47 | 23 1 | 0 2 | 3 54 | 1 18 | 24 6 | 4 41 | 23 28 | 23 29 | 24 1 | 16 22 | 6 26 |
| M 6 | 6 24 | 9 2 | 4 57 | 3 41 | 3 25 | 18 12 | 0n 2 | 7 51 | 0 6 | 17 3 | 0 36 | 22 41 | 0 47 | 23 1 | 0 2 | 3 54 | 1 18 | 24 6 | 4 41 | 23 29 | 23 29 | 24 1 | 16 21 | 6 26 |
| T 7 | 6 2 | 13 42 | 4 38 | 4 18 | 3 10 | 17 56 | 0 5 | 8 7 | 0 5 | 17 0 | 0 36 | 22 41 | 0 47 | 23 1 | 0 2 | 3 55 | 1 18 | 24 6 | 4 41 | 23 29 | 23 29 | 24 0 | 16 20 | 6 27 |
| W 8 | 5 39 | 17 38 | 4 5 | 4 54 | 2 53 | 17 40 | 0 8 | 8 23 | 0 4 | 16 56 | 0 36 | 22 41 | 0 46 | 23 1 | 0 3 | 3 56 | 1 18 | 24 6 | 4 41 | 23 29 | 23 29 | 24 0 | 16 19 | 6 27 |
| T 9 | 5 16 | 20 43 | 3 22 | 5 30 | 2 35 | 17 23 | 0 11 | 8 38 | 0 4 | 16 53 | 0 37 | 22 41 | 0 46 | 23 1 | 0 3 | 3 56 | 1 18 | 24 6 | 4 42 | 23 29 | 23 29 | 24 0 | 16 18 | 6 28 |
| F 10 | 4 54 | 22 50 | 2 30 | 6 4 | 2 16 | 17 6 | 0 14 | 8 54 | 0 3 | 16 49 | 0 37 | 22 42 | 0 46 | 23 2 | 0 3 | 3 57 | 1 18 | 24 5 | 4 42 | 23 29 | 23 29 | 23 59 | 16 17 | 6 28 |
| S 11 | 4 31 | 23 54 | 1 32 | 6 36 | 1 56 | 16 48 | 0 18 | 9 9 | 0 2 | 16 46 | 0 37 | 22 42 | 0 46 | 23 2 | 0 3 | 3 58 | 1 18 | 24 5 | 4 42 | 23 29 | 23 29 | 23 59 | 16 16 | 6 29 |
| S 12 | 4 8 | 23 53 | 0 31 | 7 5 | 1 36 | 16 30 | 0 21 | 9 25 | 0 2 | 16 42 | 0 37 | 22 42 | 0 46 | 23 2 | 0 3 | 3 58 | 1 18 | 24 5 | 4 42 | 23 29 | 23 29 | 23 59 | 16 15 | 6 30 |
| M13 | 3 45 | 22 48 | 0s32 | 7 31 | 1 17 | 16 12 | 0 24 | 9 40 | 0 1 | 16 39 | 0 37 | 22 42 | 0 46 | 23 2 | 0 3 | 3 59 | 1 18 | 24 5 | 4 42 | 23 29 | 23 29 | 23 58 | 16 14 | 6 30 |
| T 14 | 3 22 | 20 40 | 1 34 | 7 54 | 0 57 | 15 53 | 0 27 | 9 55 | 0 0 | 16 35 | 0 37 | 22 42 | 0 46 | 23 2 | 0 3 | 4 0 | 1 18 | 24 5 | 4 42 | 23 29 | 23 29 | 23 58 | 16 13 | 6 31 |
| W15 | 2 58 | 17 35 | 2 32 | 8 12 | 0 38 | 15 33 | 0 30 | 10 11 | 0s 0 | 16 32 | 0 37 | 22 42 | 0 45 | 23 2 | 0 3 | 4 0 | 1 18 | 24 5 | 4 43 | 23 29 | 23 29 | 23 57 | 16 12 | 6 31 |
| T 16 | 2 35 | 13 40 | 3 25 | 8 26 | 0 20 | 15 13 | 0 33 | 10 26 | 0 1 | 16 29 | 0 37 | 22 43 | 0 45 | 23 2 | 0 3 | 4 1 | 1 18 | 24 5 | 4 43 | 23 29 | 23 29 | 23 57 | 16 11 | 6 32 |
| F 17 | 2 12 | 9 3 | 4 9 | 8 36 | 0 3 | 14 52 | 0 35 | 10 41 | 0 2 | 16 25 | 0 38 | 22 43 | 0 45 | 23 2 | 0 3 | 4 2 | 1 18 | 24 4 | 4 43 | 23 29 | 23 29 | 23 56 | 16 10 | 6 33 |
| S 18 | 1 49 | 3 55 | 4 40 | 8 41 | 0n14 | 14 32 | 0 38 | 10 56 | 0 2 | 16 22 | 0 38 | 22 43 | 0 45 | 23 2 | 0 3 | 4 2 | 1 18 | 24 4 | 4 43 | 23 29 | 23 29 | 23 56 | 16 9 | 6 33 |
| S 19 | 1 25 | 1s30 | 4 58 | 8 41 | 0 29 | 14 10 | 0 41 | 11 11 | 0 3 | 16 18 | 0 38 | 22 43 | 0 45 | 23 2 | 0 3 | 4 3 | 1 18 | 24 4 | 4 43 | 23 29 | 23 29 | 23 56 | 16 8 | 6 34 |
| M20 | 1 2 | 6 58 | 4 59 | 8 37 | 0 43 | 13 49 | 0 44 | 11 26 | 0 4 | 16 15 | 0 38 | 22 43 | 0 45 | 23 2 | 0 3 | 4 4 | 1 18 | 24 4 | 4 43 | 23 29 | 23 29 | 23 55 | 16 7 | 6 34 |
| T 21 | 0 38 | 12 10 | 4 42 | 8 29 | 0 56 | 13 26 | 0 46 | 11 41 | 0 4 | 16 12 | 0 38 | 22 44 | 0 44 | 23 2 | 0 3 | 4 4 | 1 18 | 24 4 | 4 44 | 23 29 | 23 29 | 23 55 | 16 6 | 6 35 |
| W22 | 0 15 | 16 47 | 4 7 | 8 16 | 1 7 | 13 4 | 0 49 | 11 56 | 0 5 | 16 8 | 0 38 | 22 44 | 0 44 | 23 2 | 0 3 | 4 5 | 1 18 | 24 4 | 4 44 | 23 29 | 23 29 | 23 54 | 16 5 | 6 36 |
| T 23 | 0s 8 | 20 29 | 3 17 | 8 0 | 1 17 | 12 41 | 0 51 | 12 11 | 0 6 | 16 5 | 0 39 | 22 44 | 0 44 | 23 2 | 0 3 | 4 6 | 1 18 | 24 4 | 4 44 | 23 29 | 23 29 | 23 54 | 16 5 | 6 36 |
| F 24 | 0 32 | 22 55 | 2 15 | 7 39 | 1 26 | 12 18 | 0 54 | 12 26 | 0 6 | 16 2 | 0 39 | 22 44 | 0 44 | 23 2 | 0 3 | 4 6 | 1 18 | 24 4 | 4 44 | 23 29 | 23 29 | 23 53 | 16 4 | 6 37 |
| S 25 | 0 55 | 23 53 | 1 5 | 7 15 | 1 33 | 11 54 | 0 56 | 12 41 | 0 7 | 15 58 | 0 39 | 22 44 | 0 44 | 23 2 | 0 3 | 4 7 | 1 18 | 24 4 | 4 44 | 23 29 | 23 29 | 23 53 | 16 3 | 6 38 |
| S 26 | 1 19 | 23 19 | 0n10 | 6 48 | 1 40 | 11 30 | 0 59 | 12 55 | 0 8 | 15 55 | 0 39 | 22 44 | 0 44 | 23 2 | 0 3 | 4 8 | 1 18 | 24 4 | 4 44 | 23 29 | 23 29 | 23 52 | 16 2 | 6 38 |
| M27 | 1 42 | 21 16 | 1 23 | 6 18 | 1 45 | 11 6 | 1 1 | 13 10 | 0 8 | 15 52 | 0 39 | 22 45 | 0 44 | 23 2 | 0 3 | 4 8 | 1 18 | 24 4 | 4 45 | 23 29 | 23 29 | 23 52 | 16 1 | 6 39 |
| T 28 | 2 6 | 17 57 | 2 31 | 5 46 | 1 49 | 10 41 | 1 3 | 13 24 | 0 9 | 15 49 | 0 39 | 22 45 | 0 43 | 23 2 | 0 3 | 4 9 | 1 18 | 24 4 | 4 45 | 23 29 | 23 29 | 23 51 | 16 0 | 6 39 |
| W29 | 2 29 | 13 39 | 3 29 | 5 11 | 1 52 | 10 16 | 1 5 | 13 39 | 0 10 | 15 45 | 0 39 | 22 45 | 0 43 | 23 2 | 0 3 | 4 10 | 1 18 | 24 3 | 4 45 | 23 29 | 23 29 | 23 51 | 15 59 | 6 40 |
| T 30 | 2s53 | 8s42 | 4n15 | 4n34 | 1n54 | 9n51 | 1n 7 | 13s53 | 0s10 | 15n42 | 0n40 | 22s45 | 0n43 | 23n 2 | 0n 3 | 4s10 | 1s18 | 24n 3 | 4n45 | 23s28 | 23s29 | 23n50 | 15n58 | 6s41 |

Julian Day Number = 2340024.5, Delta T = 16.33 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'41, Lahiri = 19°35'42Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## OCTOBER 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 0 40 36 | 8♎13'38 | 10♓ 7 | 24♍34 | 8♍37 | 7♏13 | 19♌26 | 28♐35 | 18°R35 | 22°R30 | 3♌22 | 28°R43 | 28♐55 | 22♊51 | 15♋18 | F 1 |
| S 2 | 0 44 33 | 9°12'49 | 23°32 | 26°16 | 9°51 | 7°55 | 19°36 | 28°38 | 18♊35 | 22♓28 | 3°23 | 28♐31 | 28°51 | 22°58 | 15°20 | S 2 |
| S 3 | 0 48 29 | 10°12'02 | 6♈43 | 27°59 | 11° 4 | 8°36 | 19°47 | 28°41 | 18°34 | 22°27 | 3°24 | 28°18 | 28°48 | 23° 4 | 15°22 | S 3 |
| M 4 | 0 52 26 | 11°11'16 | 19°40 | 29°42 | 12°17 | 9°18 | 19°57 | 28°44 | 18°34 | 22°25 | 3°25 | 28° 6 | 28°45 | 23°11 | 15°24 | M 4 |
| T 5 | 0 56 22 | 12°10'33 | 2♉20 | 1♎27 | 13°31 | 10° 0 | 20° 8 | 28°47 | 18°33 | 22°24 | 3°25 | 27°54 | 28°42 | 23°18 | 15°26 | T 5 |
| W 6 | 1 0 19 | 13° 9'52 | 14°45 | 3°12 | 14°44 | 10°41 | 20°18 | 28°50 | 18°33 | 22°22 | 3°26 | 27°45 | 28°39 | 23°24 | 15°28 | W 6 |
| T 7 | 1 4 16 | 14° 9'13 | 26°55 | 4°57 | 15°58 | 11°23 | 20°28 | 28°53 | 18°32 | 22°21 | 3°27 | 27°38 | 28°36 | 23°31 | 15°30 | T 7 |
| F 8 | 1 8 12 | 15° 8'37 | 8♊53 | 6°42 | 17°12 | 12° 5 | 20°38 | 28°57 | 18°31 | 22°19 | 3°28 | 27°34 | 28°32 | 23°38 | 15°32 | F 8 |
| S 9 | 1 12 9 | 16° 8'03 | 20°44 | 8°27 | 18°25 | 12°47 | 20°48 | 29° 0 | 18°31 | 22°18 | 3°28 | 27°33 | 28°29 | 23°44 | 15°33 | S 9 |
| S 10 | 1 16 5 | 17° 7'31 | 2♋31 | 10°11 | 19°39 | 13°29 | 20°58 | 29° 4 | 18°30 | 22°16 | 3°29 | 27°D33 | 28°26 | 23°51 | 15°35 | S 10 |
| M11 | 1 20 2 | 18° 7'01 | 14°20 | 11°56 | 20°53 | 14°11 | 21° 8 | 29° 7 | 18°29 | 22°15 | 3°30 | 27°R33 | 28°23 | 23°58 | 15°36 | M11 |
| T 12 | 1 23 58 | 19° 6'34 | 26°16 | 13°40 | 22° 7 | 14°53 | 21°17 | 29°11 | 18°28 | 22°13 | 3°30 | 27°33 | 28°20 | 24° 4 | 15°38 | T 12 |
| W13 | 1 27 55 | 20° 6'09 | 8♌26 | 15°23 | 23°21 | 15°35 | 21°27 | 29°15 | 18°27 | 22°12 | 3°31 | 27°31 | 28°16 | 24°11 | 15°39 | W13 |
| T 14 | 1 31 51 | 21° 5'46 | 20°53 | 17° 6 | 24°35 | 16°18 | 21°36 | 29°19 | 18°26 | 22°10 | 3°31 | 27°27 | 28°13 | 24°18 | 15°40 | T 14 |
| F 15 | 1 35 48 | 22° 5'25 | 3♍42 | 18°49 | 25°49 | 17° 0 | 21°46 | 29°23 | 18°25 | 22° 9 | 3°32 | 27°21 | 28°10 | 24°24 | 15°41 | F 15 |
| S 16 | 1 39 45 | 23° 5'07 | 16°56 | 20°31 | 27° 3 | 17°42 | 21°55 | 29°27 | 18°24 | 22° 8 | 3°32 | 27°12 | 28° 7 | 24°31 | 15°43 | S 16 |
| S 17 | 1 43 41 | 24° 4'51 | 0♎34 | 22°13 | 28°17 | 18°25 | 22° 4 | 29°31 | 18°23 | 22° 6 | 3°33 | 27° 2 | 28° 4 | 24°37 | 15°43 | S 17 |
| M18 | 1 47 38 | 25° 4'37 | 14°36 | 23°54 | 29°31 | 19° 7 | 22°13 | 29°35 | 18°22 | 22° 5 | 3°33 | 26°52 | 28° 1 | 24°44 | 15°44 | M18 |
| T 19 | 1 51 34 | 26° 4'25 | 28°57 | 25°34 | 0♎46 | 19°50 | 22°22 | 29°40 | 18°20 | 22° 4 | 3°34 | 26°42 | 27°57 | 24°51 | 15°45 | T 19 |
| W20 | 1 55 31 | 27° 4'15 | 13♏31 | 27°14 | 2° 0 | 20°33 | 22°31 | 29°44 | 18°19 | 22° 2 | 3°34 | 26°34 | 27°54 | 24°57 | 15°46 | W20 |
| T 21 | 1 59 27 | 28° 4'07 | 28°10 | 28°53 | 3°14 | 21°15 | 22°39 | 29°48 | 18°18 | 22° 1 | 3°35 | 26°28 | 27°51 | 25° 4 | 15°46 | T 21 |
| F 22 | 2 3 24 | 29° 4'00 | 12♐48 | 0♏32 | 4°29 | 21°58 | 22°48 | 29°53 | 18°16 | 22° 0 | 3°35 | 26°25 | 27°48 | 25°11 | 15°47 | F 22 |
| S 23 | 2 7 20 | 0♏ 3'56 | 27°19 | 2°10 | 5°43 | 22°41 | 22°56 | 29°57 | 18°15 | 21°59 | 3°35 | 26°D24 | 27°45 | 25°17 | 15°47 | S 23 |
| S 24 | 2 11 17 | 1° 3'53 | 11♑40 | 3°48 | 6°58 | 23°24 | 23° 4 | 0♑ 2 | 18°13 | 21°57 | 3°36 | 26°25 | 27°42 | 25°24 | 15°47 | S 24 |
| M25 | 2 15 14 | 2° 3'52 | 25°47 | 5°25 | 8°12 | 24° 7 | 23°13 | 0° 7 | 18°12 | 21°56 | 3°36 | 26°R26 | 27°38 | 25°31 | 15°48 | M25 |
| T 26 | 2 19 10 | 3° 3'52 | 9♒41 | 7° 1 | 9°27 | 24°50 | 23°21 | 0°12 | 18°10 | 21°55 | 3°36 | 26°26 | 27°35 | 25°37 | 15°R48 | T 26 |
| W27 | 2 23 7 | 4° 3'54 | 23°21 | 8°38 | 10°41 | 25°33 | 23°29 | 0°16 | 18° 9 | 21°54 | 3°36 | 26°24 | 27°32 | 25°44 | 15°48 | W27 |
| T 28 | 2 27 3 | 5° 3'57 | 6♓47 | 10°13 | 11°56 | 26°16 | 23°36 | 0°21 | 18° 7 | 21°53 | 3°37 | 26°20 | 27°29 | 25°51 | 15°48 | T 28 |
| F 29 | 2 31 0 | 6° 4'02 | 20° 1 | 11°49 | 13°10 | 26°59 | 23°44 | 0°26 | 18° 5 | 21°52 | 3°37 | 26°14 | 27°26 | 25°57 | 15°47 | F 29 |
| S 30 | 2 34 56 | 7° 4'09 | 3♈ 3 | 13°23 | 14°25 | 27°43 | 23°51 | 0°31 | 18° 4 | 21°51 | 3°37 | 26° 6 | 27°22 | 26° 4 | 15°47 | S 30 |
| S 31 | 2 38 53 | 8♏ 4'17 | 15♈52 | 14♏58 | 15♎40 | 28♏26 | 23♌59 | 0♑37 | 18♊ 2 | 21♓50 | 3♌37 | 25♐57 | 27♐19 | 26♊10 | 15♋47 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 3s16 | 3s23 | 4n45 | 3n56 | 1n55 | 9n25 | 1n 9 | 14s 7 | 0s11 | 15n39 | 0n40 | 22s45 | 0n43 | 23n 2 | 0n 3 | 4s11 | 1s18 | 24n 3 | 4n45 | 23s28 | 23s28 | 23n50 | 15n57 | 6s41 |
| S 2 | 3 39 | 2n 1 | 5 0 | 3 15 | 1 56 | 8 59 | 1 11 | 14 21 | 0 12 | 15 36 | 0 40 | 22 45 | 0 43 | 23 2 | 0 3 | 4 11 | 1 18 | 24 3 | 4 46 | 23 28 | 23 28 | 23 49 | 15 56 | 6 42 |
| S 3 | 4 3 | 7 13 | 4 58 | 2 34 | 1 55 | 8 33 | 1 13 | 14 35 | 0 12 | 15 33 | 0 40 | 22 46 | 0 43 | 23 2 | 0 3 | 4 12 | 1 18 | 24 3 | 4 46 | 23 28 | 23 28 | 23 49 | 15 55 | 6 43 |
| M 4 | 4 26 | 12 1 | 4 40 | 1 52 | 1 54 | 8 7 | 1 15 | 14 49 | 0 13 | 15 29 | 0 40 | 22 46 | 0 43 | 23 2 | 0 3 | 4 13 | 1 18 | 24 3 | 4 46 | 23 28 | 23 28 | 23 48 | 15 54 | 6 43 |
| T 5 | 4 49 | 16 12 | 4 9 | 1 8 | 1 52 | 7 40 | 1 17 | 15 3 | 0 13 | 15 26 | 0 40 | 22 46 | 0 42 | 23 2 | 0 3 | 4 13 | 1 18 | 24 3 | 4 46 | 23 28 | 23 28 | 23 48 | 15 53 | 6 44 |
| W 6 | 5 12 | 19 34 | 3 27 | 0 24 | 1 50 | 7 13 | 1 18 | 15 17 | 0 14 | 15 23 | 0 41 | 22 46 | 0 42 | 23 2 | 0 3 | 4 14 | 1 18 | 24 3 | 4 46 | 23 28 | 23 28 | 23 47 | 15 53 | 6 45 |
| T 7 | 5 35 | 22 1 | 2 35 | 0s20 | 1 47 | 6 46 | 1 20 | 15 30 | 0 15 | 15 20 | 0 41 | 22 46 | 0 42 | 23 2 | 0 3 | 4 14 | 1 18 | 24 3 | 4 46 | 23 27 | 23 28 | 23 47 | 15 52 | 6 45 |
| F 8 | 5 58 | 23 25 | 1 38 | 1 5 | 1 43 | 6 19 | 1 21 | 15 44 | 0 15 | 15 17 | 0 41 | 22 46 | 0 42 | 23 2 | 0 3 | 4 15 | 1 18 | 24 3 | 4 47 | 23 27 | 23 28 | 23 46 | 15 51 | 6 46 |
| S 9 | 6 21 | 23 45 | 0 36 | 1 50 | 1 39 | 5 51 | 1 23 | 15 57 | 0 16 | 15 14 | 0 41 | 22 47 | 0 42 | 23 2 | 0 3 | 4 16 | 1 18 | 24 3 | 4 47 | 23 27 | 23 28 | 23 45 | 15 50 | 6 47 |
| S 10 | 6 44 | 23 1 | 0s26 | 2 35 | 1 35 | 5 24 | 1 24 | 16 11 | 0 17 | 15 11 | 0 41 | 22 47 | 0 42 | 23 2 | 0 3 | 4 16 | 1 18 | 24 3 | 4 47 | 23 27 | 23 28 | 23 45 | 15 49 | 6 48 |
| M11 | 7 7 | 21 15 | 1 28 | 3 20 | 1 30 | 4 56 | 1 26 | 16 24 | 0 17 | 15 8 | 0 41 | 22 47 | 0 42 | 23 2 | 0 3 | 4 17 | 1 18 | 24 3 | 4 47 | 23 27 | 23 28 | 23 44 | 15 48 | 6 48 |
| T 12 | 7 30 | 18 32 | 2 27 | 4 5 | 1 25 | 4 28 | 1 27 | 16 37 | 0 18 | 15 5 | 0 42 | 22 47 | 0 41 | 23 2 | 0 3 | 4 17 | 1 18 | 24 3 | 4 47 | 23 27 | 23 28 | 23 44 | 15 47 | 6 49 |
| W13 | 7 52 | 14 58 | 3 20 | 4 50 | 1 20 | 3 59 | 1 28 | 16 50 | 0 18 | 15 2 | 0 42 | 22 47 | 0 41 | 23 1 | 0 3 | 4 18 | 1 18 | 24 4 | 4 48 | 23 27 | 23 28 | 23 43 | 15 47 | 6 50 |
| T 14 | 8 15 | 10 41 | 4 5 | 5 35 | 1 15 | 3 31 | 1 29 | 17 3 | 0 19 | 14 59 | 0 42 | 22 47 | 0 41 | 23 1 | 0 3 | 4 18 | 1 18 | 24 4 | 4 48 | 23 27 | 23 28 | 23 43 | 15 46 | 6 50 |
| F 15 | 8 37 | 5 50 | 4 39 | 6 19 | 1 9 | 3 3 | 1 30 | 17 15 | 0 20 | 14 57 | 0 42 | 22 48 | 0 41 | 23 1 | 0 3 | 4 19 | 1 18 | 24 4 | 4 48 | 23 27 | 23 28 | 23 42 | 15 45 | 6 51 |
| S 16 | 8 59 | 0 35 | 4 59 | 7 3 | 1 3 | 2 34 | 1 31 | 17 28 | 0 20 | 14 54 | 0 42 | 22 48 | 0 41 | 23 1 | 0 3 | 4 19 | 1 18 | 24 4 | 4 48 | 23 27 | 23 28 | 23 41 | 15 44 | 6 52 |
| S 17 | 9 21 | 4s52 | 5 3 | 7 47 | 0 57 | 2 5 | 1 32 | 17 40 | 0 21 | 14 51 | 0 43 | 22 48 | 0 41 | 23 1 | 0 3 | 4 20 | 1 18 | 24 4 | 4 48 | 23 27 | 23 28 | 23 41 | 15 43 | 6 52 |
| M18 | 9 43 | 10 13 | 4 50 | 8 30 | 0 51 | 1 36 | 1 33 | 17 53 | 0 21 | 14 48 | 0 43 | 22 48 | 0 41 | 23 1 | 0 3 | 4 20 | 1 18 | 24 4 | 4 49 | 23 27 | 23 28 | 23 40 | 15 43 | 6 53 |
| T 19 | 10 5 | 15 8 | 4 18 | 9 13 | 0 44 | 1 7 | 1 33 | 18 5 | 0 22 | 14 45 | 0 43 | 22 48 | 0 41 | 23 1 | 0 3 | 4 21 | 1 18 | 24 4 | 4 49 | 23 26 | 23 28 | 23 39 | 15 42 | 6 54 |
| W20 | 10 27 | 19 14 | 3 29 | 9 55 | 0 38 | 0 38 | 1 34 | 18 17 | 0 23 | 14 43 | 0 43 | 22 48 | 0 40 | 23 1 | 0 3 | 4 21 | 1 18 | 24 4 | 4 49 | 23 26 | 23 28 | 23 39 | 15 41 | 6 54 |
| T 21 | 10 48 | 22 9 | 2 25 | 10 37 | 0 31 | 0 9 | 1 34 | 18 29 | 0 23 | 14 40 | 0 43 | 22 48 | 0 40 | 23 1 | 0 3 | 4 22 | 1 18 | 24 4 | 4 49 | 23 26 | 23 28 | 23 38 | 15 40 | 6 55 |
| F 22 | 11 10 | 23 34 | 1 12 | 11 18 | 0 25 | 0s20 | 1 35 | 18 40 | 0 24 | 14 38 | 0 44 | 22 49 | 0 40 | 23 1 | 0 3 | 4 22 | 1 18 | 24 4 | 4 49 | 23 26 | 23 28 | 23 38 | 15 40 | 6 56 |
| S 23 | 11 31 | 23 22 | 0n 5 | 11 58 | 0 18 | 0 49 | 1 35 | 18 52 | 0 24 | 14 35 | 0 44 | 22 49 | 0 40 | 23 1 | 0 3 | 4 23 | 1 18 | 24 4 | 4 50 | 23 26 | 23 28 | 23 37 | 15 39 | 6 57 |
| S 24 | 11 52 | 21 37 | 1 21 | 12 38 | 0 11 | 1 18 | 1 36 | 19 3 | 0 25 | 14 32 | 0 44 | 22 49 | 0 40 | 23 0 | 0 3 | 4 23 | 1 18 | 24 4 | 4 50 | 23 26 | 23 28 | 23 36 | 15 38 | 6 57 |
| M25 | 12 13 | 18 33 | 2 31 | 13 17 | 0 4 | 1 47 | 1 36 | 19 15 | 0 26 | 14 30 | 0 44 | 22 49 | 0 40 | 23 0 | 0 3 | 4 24 | 1 18 | 24 5 | 4 50 | 23 26 | 23 27 | 23 36 | 15 37 | 6 58 |
| T 26 | 12 33 | 14 28 | 3 31 | 13 55 | 0s 2 | 2 17 | 1 36 | 19 26 | 0 26 | 14 27 | 0 44 | 22 49 | 0 40 | 23 0 | 0 3 | 4 24 | 1 18 | 24 5 | 4 50 | 23 26 | 23 27 | 23 35 | 15 37 | 6 59 |
| W27 | 12 54 | 9 42 | 4 18 | 14 33 | 0 9 | 2 46 | 1 36 | 19 37 | 0 27 | 14 25 | 0 45 | 22 49 | 0 40 | 23 0 | 0 3 | 4 25 | 1 18 | 24 5 | 4 50 | 23 26 | 23 27 | 23 34 | 15 36 | 6 59 |
| T 28 | 13 14 | 4 33 | 4 50 | 15 9 | 0 16 | 3 15 | 1 36 | 19 48 | 0 27 | 14 23 | 0 45 | 22 49 | 0 39 | 23 0 | 0 3 | 4 25 | 1 18 | 24 5 | 4 51 | 23 26 | 23 27 | 23 34 | 15 35 | 7 0 |
| F 29 | 13 34 | 0n43 | 5 5 | 15 45 | 0 22 | 3 44 | 1 36 | 19 58 | 0 28 | 14 20 | 0 45 | 22 49 | 0 39 | 23 0 | 0 3 | 4 26 | 1 18 | 24 5 | 4 51 | 23 26 | 23 27 | 23 33 | 15 35 | 7 1 |
| S 30 | 13 54 | 5 53 | 5 5 | 16 21 | 0 29 | 4 13 | 1 36 | 20 9 | 0 28 | 14 18 | 0 45 | 22 49 | 0 39 | 23 0 | 0 3 | 4 26 | 1 18 | 24 5 | 4 51 | 23 25 | 23 27 | 23 32 | 15 34 | 7 1 |
| S 31 | 14s13 | 10n42 | 4n49 | 16s55 | 0s36 | 4s42 | 1n36 | 20s19 | 0s29 | 14n16 | 0n45 | 22s50 | 0n39 | 22n59 | 0n 3 | 4s26 | 1s18 | 24n 6 | 4n51 | 23s25 | 23s27 | 23n32 | 15n33 | 7s 2 |

Julian Day Number = 2340054.5, Delta T = 16.30 sec
Ecliptic obliquity = 23°28'45, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'45, Lahiri = 19°35'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## NOVEMBER 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 2 42 49 | 9♏ 4'27 | 28♈29 | 16♏32 | 16♎55 | 29♏ 9 | 24♌ 6 | 0♉42 | 18°R 0 | 21°R49 | 3♌37 | 25°R48 | 27♐16 | 26♊17 | 15°R46 | M 1 |
| T 2 | 2 46 46 | 10° 4'39 | 10♉53 | 18° 5 | 18° 9 | 29°53 | 24°13 | 0°47 | 17♊58 | 21♓48 | 3°37 | 25♐40 | 27°13 | 26°24 | 15♋46 | T 2 |
| W 3 | 2 50 42 | 11° 4'53 | 23° 6 | 19°39 | 19°24 | 0♐36 | 24°20 | 0°52 | 17°56 | 21°47 | 3°37 | 25°34 | 27°10 | 26°30 | 15°45 | W 3 |
| T 4 | 2 54 39 | 12° 5'08 | 5♊ 9 | 21°11 | 20°39 | 1°20 | 24°27 | 0°58 | 17°55 | 21°46 | 3°R37 | 25°29 | 27° 7 | 26°37 | 15°44 | T 4 |
| F 5 | 2 58 36 | 13° 5'26 | 17° 3 | 22°44 | 21°54 | 2° 3 | 24°33 | 1° 3 | 17°53 | 21°45 | 3°37 | 25°27 | 27° 3 | 26°44 | 15°43 | F 5 |
| S 6 | 3 2 32 | 14° 5'45 | 28°51 | 24°16 | 23° 9 | 2°47 | 24°40 | 1° 9 | 17°51 | 21°44 | 3°37 | 25°D27 | 27° 0 | 26°50 | 15°42 | S 6 |
| S 7 | 3 6 29 | 15° 6'06 | 10♋37 | 25°48 | 24°24 | 3°31 | 24°46 | 1°14 | 17°49 | 21°43 | 3°37 | 25°28 | 26°57 | 26°57 | 15°41 | S 7 |
| M 8 | 3 10 25 | 16° 6'29 | 22°26 | 27°20 | 25°39 | 4°15 | 24°52 | 1°20 | 17°47 | 21°42 | 3°37 | 25°29 | 26°54 | 27° 4 | 15°40 | M 8 |
| T 9 | 3 14 22 | 17° 6'54 | 4♌21 | 28°51 | 26°54 | 4°59 | 24°58 | 1°25 | 17°45 | 21°41 | 3°37 | 25°31 | 26°51 | 27°10 | 15°39 | T 9 |
| W10 | 3 18 18 | 18° 7'21 | 16°28 | 0♐22 | 28° 9 | 5°42 | 25° 4 | 1°31 | 17°42 | 21°41 | 3°37 | 25°R32 | 26°48 | 27°17 | 15°38 | W10 |
| T 11 | 3 22 15 | 19° 7'49 | 28°52 | 1°53 | 29°24 | 6°26 | 25°10 | 1°37 | 17°40 | 21°40 | 3°37 | 25°31 | 26°44 | 27°24 | 15°36 | T 11 |
| F 12 | 3 26 11 | 20° 8'20 | 11♍38 | 3°23 | 0♏39 | 7°11 | 25°16 | 1°43 | 17°38 | 21°39 | 3°36 | 25°29 | 26°41 | 27°30 | 15°35 | F 12 |
| S 13 | 3 30 8 | 21° 8'52 | 24°49 | 4°53 | 1°54 | 7°55 | 25°21 | 1°49 | 17°36 | 21°39 | 3°36 | 25°25 | 26°38 | 27°37 | 15°33 | S 13 |
| S 14 | 3 34 5 | 22° 9'26 | 8♎28 | 6°23 | 3° 9 | 8°39 | 25°26 | 1°55 | 17°34 | 21°38 | 3°36 | 25°21 | 26°35 | 27°43 | 15°32 | S 14 |
| M15 | 3 38 1 | 23°10'02 | 22°34 | 7°52 | 4°24 | 9°23 | 25°31 | 2° 1 | 17°31 | 21°37 | 3°36 | 25°16 | 26°32 | 27°50 | 15°30 | M15 |
| T 16 | 3 41 58 | 24°10'39 | 7♏ 5 | 9°21 | 5°39 | 10° 7 | 25°36 | 2° 7 | 17°29 | 21°37 | 3°35 | 25°11 | 26°28 | 27°57 | 15°28 | T 16 |
| W17 | 3 45 54 | 25°11'18 | 21°54 | 10°49 | 6°54 | 10°52 | 25°41 | 2°13 | 17°27 | 21°36 | 3°35 | 25° 7 | 26°25 | 28° 3 | 15°26 | W17 |
| T 18 | 3 49 51 | 26°11'59 | 6♐54 | 12°17 | 8°10 | 11°36 | 25°46 | 2°19 | 17°25 | 21°36 | 3°35 | 25° 4 | 26°22 | 28°10 | 15°24 | T 18 |
| F 19 | 3 53 47 | 27°12'41 | 21°56 | 13°45 | 9°25 | 12°21 | 25°50 | 2°25 | 17°22 | 21°35 | 3°34 | 25°D 3 | 26°19 | 28°17 | 15°22 | F 19 |
| S 20 | 3 57 44 | 28°13'25 | 6♑52 | 15°12 | 10°40 | 13° 5 | 25°54 | 2°31 | 17°20 | 21°35 | 3°34 | 25° 3 | 26°16 | 28°23 | 15°20 | S 20 |
| S 21 | 4 1 40 | 29°14'09 | 21°34 | 16°38 | 11°55 | 13°50 | 25°58 | 2°38 | 17°17 | 21°35 | 3°33 | 25° 5 | 26°13 | 28°30 | 15°18 | S 21 |
| M22 | 4 5 37 | 0♐14'54 | 5♒57 | 18° 4 | 13°11 | 14°34 | 26° 2 | 2°44 | 17°15 | 21°34 | 3°33 | 25° 6 | 26° 9 | 28°37 | 15°15 | M22 |
| T 23 | 4 9 34 | 1°15'41 | 20° 0 | 19°29 | 14°26 | 15°19 | 26° 6 | 2°50 | 17°13 | 21°34 | 3°32 | 25° 7 | 26° 6 | 28°43 | 15°13 | T 23 |
| W24 | 4 13 30 | 2°16'28 | 3♓41 | 20°53 | 15°41 | 16° 4 | 26° 9 | 2°57 | 17°10 | 21°33 | 3°32 | 25°R 8 | 26° 3 | 28°50 | 15°10 | W24 |
| T 25 | 4 17 27 | 3°17'16 | 17° 1 | 22°15 | 16°56 | 16°48 | 26°13 | 3° 3 | 17° 8 | 21°33 | 3°31 | 25° 7 | 26° 0 | 28°57 | 15° 8 | T 25 |
| F 26 | 4 21 23 | 4°18'05 | 0♈ 3 | 23°37 | 18°12 | 17°33 | 26°16 | 3° 9 | 17° 5 | 21°33 | 3°31 | 25° 5 | 25°57 | 29° 3 | 15° 5 | F 26 |
| S 27 | 4 25 20 | 5°18'55 | 12°49 | 24°57 | 19°27 | 18°18 | 26°19 | 3°16 | 17° 3 | 21°33 | 3°30 | 25° 3 | 25°54 | 29°10 | 15° 2 | S 27 |
| S 28 | 4 29 16 | 6°19'46 | 25°20 | 26°16 | 20°42 | 19° 3 | 26°22 | 3°23 | 17° 0 | 21°33 | 3°29 | 25° 0 | 25°50 | 29°17 | 15° 0 | S 28 |
| M29 | 4 33 13 | 7°20'38 | 7♉39 | 27°32 | 21°58 | 19°48 | 26°24 | 3°29 | 16°58 | 21°32 | 3°29 | 24°57 | 25°47 | 29°23 | 14°57 | M29 |
| T 30 | 4 37 9 | 8♐21'31 | 19♉49 | 28♐47 | 23♏13 | 20♐33 | 26♌27 | 3♑36 | 16♊55 | 21♓32 | 3♌28 | 24♐54 | 25♐44 | 29♊30 | 14♋54 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 14s33 | 14n59 | 4n19 | 17s29 | 0s42 | 5s11 | 1n36 | 20s29 | 0s30 | 14n14 | 0n46 | 22s50 | 0n39 | 22n59 | 0n 3 | 4s27 | 1s18 | 24n 6 | 4n51 | 23s25 | 23s27 | 23n31 | 15n33 | 7s 3 | M 1 |
| T 2 | 14 52 | 18 33 | 3 38 | 18 1 | 0 49 | 5 40 | 1 35 | 20 39 | 0 30 | 14 11 | 0 46 | 22 50 | 0 39 | 22 59 | 0 3 | 4 27 | 1 18 | 24 6 | 4 52 | 23 24 | 23 27 | 23 30 | 15 32 | 7 4 | T 2 |
| W 3 | 15 11 | 21 15 | 2 46 | 18 33 | 0 55 | 6 9 | 1 35 | 20 49 | 0 31 | 14 9 | 0 46 | 22 50 | 0 39 | 22 59 | 0 3 | 4 27 | 1 18 | 24 6 | 4 52 | 23 24 | 23 27 | 23 30 | 15 31 | 7 4 | W 3 |
| T 4 | 15 29 | 22 58 | 1 48 | 19 4 | 1 1 | 6 37 | 1 34 | 20 58 | 0 31 | 14 7 | 0 46 | 22 50 | 0 39 | 22 59 | 0 3 | 4 28 | 1 18 | 24 6 | 4 52 | 23 24 | 23 27 | 23 29 | 15 31 | 7 5 | T 4 |
| F 5 | 15 48 | 23 36 | 0 46 | 19 34 | 1 7 | 7 6 | 1 34 | 21 8 | 0 32 | 14 5 | 0 46 | 22 50 | 0 38 | 22 59 | 0 3 | 4 28 | 1 18 | 24 6 | 4 52 | 23 24 | 23 27 | 23 28 | 15 30 | 7 6 | F 5 |
| S 6 | 16 6 | 23 10 | 0s19 | 20 3 | 1 13 | 7 34 | 1 33 | 21 17 | 0 32 | 14 3 | 0 47 | 22 50 | 0 38 | 22 59 | 0 3 | 4 28 | 1 18 | 24 7 | 4 52 | 23 24 | 23 27 | 23 27 | 15 30 | 7 6 | S 6 |
| S 7 | 16 24 | 21 42 | 1 22 | 20 31 | 1 19 | 8 2 | 1 32 | 21 26 | 0 33 | 14 1 | 0 47 | 22 50 | 0 38 | 22 58 | 0 3 | 4 29 | 1 18 | 24 7 | 4 53 | 23 24 | 23 27 | 23 27 | 15 29 | 7 7 | S 7 |
| M 8 | 16 41 | 19 17 | 2 22 | 20 58 | 1 25 | 8 30 | 1 32 | 21 35 | 0 33 | 14 0 | 0 47 | 22 50 | 0 38 | 22 58 | 0 3 | 4 29 | 1 18 | 24 7 | 4 53 | 23 24 | 23 27 | 23 26 | 15 29 | 7 8 | M 8 |
| T 9 | 16 58 | 16 1 | 3 16 | 21 24 | 1 30 | 8 58 | 1 31 | 21 43 | 0 34 | 13 58 | 0 47 | 22 50 | 0 38 | 22 58 | 0 3 | 4 29 | 1 18 | 24 7 | 4 53 | 23 24 | 23 26 | 23 25 | 15 28 | 7 8 | T 9 |
| W10 | 17 15 | 12 4 | 4 3 | 21 49 | 1 36 | 9 26 | 1 30 | 21 52 | 0 35 | 13 56 | 0 48 | 22 50 | 0 38 | 22 58 | 0 3 | 4 30 | 1 18 | 24 8 | 4 53 | 23 24 | 23 26 | 23 24 | 15 28 | 7 9 | W10 |
| T 11 | 17 32 | 7 31 | 4 40 | 22 13 | 1 41 | 9 53 | 1 29 | 22 0 | 0 35 | 13 54 | 0 48 | 22 50 | 0 38 | 22 58 | 0 3 | 4 30 | 1 17 | 24 8 | 4 53 | 23 24 | 23 26 | 23 24 | 15 27 | 7 10 | T 11 |
| F 12 | 17 48 | 2 32 | 5 4 | 22 36 | 1 46 | 10 21 | 1 28 | 22 8 | 0 36 | 13 53 | 0 48 | 22 50 | 0 38 | 22 57 | 0 3 | 4 30 | 1 17 | 24 8 | 4 54 | 23 24 | 23 26 | 23 23 | 15 27 | 7 10 | F 12 |
| S 13 | 18 5 | 2s43 | 5 12 | 22 58 | 1 51 | 10 48 | 1 27 | 22 16 | 0 36 | 13 51 | 0 48 | 22 50 | 0 38 | 22 57 | 0 3 | 4 30 | 1 17 | 24 8 | 4 54 | 23 24 | 23 26 | 23 22 | 15 26 | 7 11 | S 13 |
| S 14 | 18 20 | 8 1 | 5 4 | 23 18 | 1 55 | 11 14 | 1 26 | 22 23 | 0 37 | 13 49 | 0 49 | 22 50 | 0 37 | 22 57 | 0 3 | 4 30 | 1 17 | 24 9 | 4 54 | 23 24 | 23 26 | 23 21 | 15 26 | 7 11 | S 14 |
| M15 | 18 36 | 13 6 | 4 38 | 23 38 | 2 0 | 11 41 | 1 25 | 22 30 | 0 37 | 13 48 | 0 49 | 22 50 | 0 37 | 22 57 | 0 3 | 4 31 | 1 17 | 24 9 | 4 54 | 23 24 | 23 26 | 23 21 | 15 25 | 7 12 | M15 |
| T 16 | 18 51 | 17 34 | 3 53 | 23 56 | 2 4 | 12 7 | 1 23 | 22 38 | 0 38 | 13 46 | 0 49 | 22 50 | 0 37 | 22 57 | 0 3 | 4 31 | 1 17 | 24 9 | 4 54 | 23 23 | 23 26 | 23 20 | 15 25 | 7 13 | T 16 |
| W17 | 19 6 | 21 2 | 2 52 | 24 13 | 2 8 | 12 33 | 1 22 | 22 44 | 0 38 | 13 45 | 0 49 | 22 50 | 0 37 | 22 56 | 0 3 | 4 31 | 1 17 | 24 9 | 4 55 | 23 23 | 23 26 | 23 19 | 15 24 | 7 13 | W17 |
| T 18 | 19 20 | 23 7 | 1 38 | 24 28 | 2 11 | 12 59 | 1 21 | 22 51 | 0 39 | 13 44 | 0 49 | 22 50 | 0 37 | 22 56 | 0 3 | 4 31 | 1 17 | 24 10 | 4 55 | 23 23 | 23 26 | 23 18 | 15 24 | 7 14 | T 18 |
| F 19 | 19 34 | 23 31 | 0 17 | 24 43 | 2 14 | 13 24 | 1 19 | 22 58 | 0 39 | 13 42 | 0 50 | 22 50 | 0 37 | 22 56 | 0 3 | 4 31 | 1 17 | 24 10 | 4 55 | 23 23 | 23 26 | 23 17 | 15 24 | 7 15 | F 19 |
| S 20 | 19 48 | 22 14 | 1n 5 | 24 56 | 2 17 | 13 49 | 1 18 | 23 4 | 0 40 | 13 41 | 0 50 | 22 50 | 0 37 | 22 56 | 0 3 | 4 32 | 1 17 | 24 10 | 4 55 | 23 23 | 23 26 | 23 17 | 15 23 | 7 15 | S 20 |
| S 21 | 20 1 | 19 26 | 2 21 | 25 7 | 2 20 | 14 14 | 1 16 | 23 10 | 0 40 | 13 40 | 0 50 | 22 50 | 0 37 | 22 56 | 0 3 | 4 32 | 1 17 | 24 10 | 4 55 | 23 23 | 23 25 | 23 16 | 15 23 | 7 16 | S 21 |
| M22 | 20 14 | 15 29 | 3 27 | 25 18 | 2 22 | 14 38 | 1 15 | 23 16 | 0 41 | 13 39 | 0 50 | 22 50 | 0 37 | 22 55 | 0 3 | 4 32 | 1 17 | 24 11 | 4 56 | 23 23 | 23 25 | 23 15 | 15 23 | 7 16 | M22 |
| T 23 | 20 27 | 10 45 | 4 18 | 25 27 | 2 23 | 15 2 | 1 13 | 23 21 | 0 41 | 13 38 | 0 51 | 22 50 | 0 37 | 22 55 | 0 3 | 4 32 | 1 17 | 24 11 | 4 56 | 23 23 | 23 25 | 23 14 | 15 22 | 7 17 | T 23 |
| W24 | 20 39 | 5 36 | 4 54 | 25 34 | 2 25 | 15 26 | 1 11 | 23 26 | 0 42 | 13 37 | 0 51 | 22 50 | 0 36 | 22 55 | 0 3 | 4 32 | 1 17 | 24 11 | 4 56 | 23 23 | 23 25 | 23 13 | 15 22 | 7 17 | W24 |
| T 25 | 20 51 | 0 20 | 5 12 | 25 40 | 2 25 | 15 49 | 1 9 | 23 31 | 0 42 | 13 36 | 0 51 | 22 50 | 0 36 | 22 55 | 0 3 | 4 32 | 1 17 | 24 12 | 4 56 | 23 23 | 23 25 | 23 13 | 15 22 | 7 18 | T 25 |
| F 26 | 21 2 | 4n50 | 5 14 | 25 45 | 2 25 | 16 12 | 1 8 | 23 36 | 0 43 | 13 35 | 0 51 | 22 50 | 0 36 | 22 54 | 0 3 | 4 32 | 1 17 | 24 12 | 4 56 | 23 23 | 23 25 | 23 12 | 15 22 | 7 18 | F 26 |
| S 27 | 21 13 | 9 41 | 5 1 | 25 48 | 2 25 | 16 34 | 1 6 | 23 41 | 0 43 | 13 35 | 0 52 | 22 50 | 0 36 | 22 54 | 0 3 | 4 32 | 1 17 | 24 12 | 4 57 | 23 23 | 23 25 | 23 11 | 15 21 | 7 19 | S 27 |
| S 28 | 21 24 | 14 2 | 4 33 | 25 50 | 2 24 | 16 56 | 1 4 | 23 45 | 0 44 | 13 34 | 0 52 | 22 50 | 0 36 | 22 54 | 0 3 | 4 32 | 1 17 | 24 13 | 4 57 | 23 23 | 23 25 | 23 10 | 15 21 | 7 20 | S 28 |
| M29 | 21 34 | 17 45 | 3 52 | 25 50 | 2 23 | 17 17 | 1 2 | 23 49 | 0 44 | 13 33 | 0 52 | 22 50 | 0 36 | 22 54 | 0 3 | 4 32 | 1 17 | 24 13 | 4 57 | 23 23 | 23 25 | 23 9 | 15 21 | 7 20 | M29 |
| T 30 | 21s44 | 20n38 | 3n 2 | 25s49 | 2s20 | 17s38 | 1n 0 | 23s53 | 0s45 | 13n33 | 0n52 | 22s50 | 0n36 | 22n54 | 0n 3 | 4s32 | 1s17 | 24n13 | 4n57 | 23s23 | 23s25 | 23n 8 | 15n21 | 7s21 | T 30 |

Julian Day Number = 2340085.5, Delta T = 16.26 sec
Ecliptic obliquity = 23°28'44, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'50, Lahiri = 19°35'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1694
# geocentric

## DECEMBER 1694 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 4 41 6 | 9♐22'25 | 1♊49 | 29♐59 | 24♏28 | 21♐18 | 26♌29 | 3♑42 | 16°R53 | 21°R32 | 3°R27 | 24°R52 | 25♐41 | 29♊36 | 14°R51 | W 1 |
| T 2 | 4 45 3 | 10°23'20 | 13°44 | 1♑ 8 | 25°44 | 22° 3 | 26°31 | 3°49 | 16♊50 | 21°D32 | 3♌27 | 24♐51 | 25°38 | 29°43 | 14♋48 | T 2 |
| F 3 | 4 48 59 | 11°24'16 | 25°34 | 2°14 | 26°59 | 22°49 | 26°33 | 3°56 | 16°48 | 21♓32 | 3°26 | 24°D51 | 25°34 | 29°50 | 14°45 | F 3 |
| S 4 | 4 52 56 | 12°25'13 | 7♋21 | 3°16 | 28°15 | 23°34 | 26°35 | 4° 2 | 16°45 | 21°32 | 3°25 | 24°51 | 25°31 | 29°56 | 14°41 | S 4 |
| S 5 | 4 56 52 | 13°26'11 | 19° 8 | 4°13 | 29°30 | 24°19 | 26°36 | 4° 9 | 16°43 | 21°32 | 3°24 | 24°52 | 25°28 | 0♋ 3 | 14°38 | S 5 |
| M 6 | 5 0 49 | 14°27'10 | 0♌59 | 5° 5 | 0♐45 | 25° 5 | 26°37 | 4°16 | 16°40 | 21°33 | 3°24 | 24°53 | 25°25 | 0°10 | 14°35 | M 6 |
| T 7 | 5 4 45 | 15°28'10 | 12°56 | 5°52 | 2° 1 | 25°50 | 26°38 | 4°23 | 16°37 | 21°33 | 3°23 | 24°54 | 25°22 | 0°16 | 14°31 | T 7 |
| W 8 | 5 8 42 | 16°29'11 | 25° 3 | 6°32 | 3°16 | 26°35 | 26°39 | 4°30 | 16°35 | 21°33 | 3°22 | 24°55 | 25°19 | 0°23 | 14°28 | W 8 |
| T 9 | 5 12 39 | 17°30'13 | 7♍25 | 7° 5 | 4°32 | 27°21 | 26°40 | 4°36 | 16°32 | 21°33 | 3°21 | 24°56 | 25°15 | 0°30 | 14°24 | T 9 |
| F 10 | 5 16 35 | 18°31'16 | 20° 6 | 7°29 | 5°47 | 28° 6 | 26°41 | 4°43 | 16°30 | 21°33 | 3°20 | 24°R56 | 25°12 | 0°36 | 14°21 | F 10 |
| S 11 | 5 20 32 | 19°32'20 | 3♎ 9 | 7°45 | 7° 2 | 28°52 | 26°41 | 4°50 | 16°27 | 21°34 | 3°19 | 24°56 | 25° 9 | 0°43 | 14°17 | S 11 |
| S 12 | 5 24 28 | 20°33'25 | 16°39 | 7°R50 | 8°18 | 29°38 | 26°R41 | 4°57 | 16°25 | 21°34 | 3°18 | 24°55 | 25° 6 | 0°50 | 14°13 | S 12 |
| M13 | 5 28 25 | 21°34'31 | 0♏35 | 7°45 | 9°33 | 0♑23 | 26°41 | 5° 4 | 16°22 | 21°34 | 3°17 | 24°55 | 25° 3 | 0°56 | 14°10 | M13 |
| T 14 | 5 32 21 | 22°35'38 | 14°59 | 7°28 | 10°49 | 1° 9 | 26°41 | 5°11 | 16°20 | 21°35 | 3°17 | 24°55 | 24°59 | 1° 3 | 14° 6 | T 14 |
| W15 | 5 36 18 | 23°36'45 | 29°46 | 7° 0 | 12° 4 | 1°55 | 26°40 | 5°18 | 16°17 | 21°35 | 3°16 | 24°54 | 24°56 | 1°10 | 14° 2 | W15 |
| T 16 | 5 40 14 | 24°37'54 | 14♐51 | 6°20 | 13°20 | 2°41 | 26°40 | 5°25 | 16°15 | 21°35 | 3°15 | 24°D54 | 24°53 | 1°16 | 13°58 | T 16 |
| F 17 | 5 44 11 | 25°39'03 | 0♑ 4 | 5°28 | 14°35 | 3°27 | 26°39 | 5°32 | 16°12 | 21°36 | 3°14 | 24°R54 | 24°50 | 1°23 | 13°54 | F 17 |
| S 18 | 5 48 8 | 26°40'12 | 15°16 | 4°27 | 15°51 | 4°13 | 26°38 | 5°39 | 16°10 | 21°37 | 3°12 | 24°54 | 24°47 | 1°29 | 13°50 | S 18 |
| S 19 | 5 52 4 | 27°41'22 | 0♒18 | 3°17 | 17° 6 | 4°58 | 26°36 | 5°46 | 16° 7 | 21°37 | 3°11 | 24°54 | 24°44 | 1°36 | 13°46 | S 19 |
| M20 | 5 56 1 | 28°42'31 | 15° 1 | 2° 0 | 18°22 | 5°44 | 26°35 | 5°53 | 16° 5 | 21°38 | 3°10 | 24°54 | 24°40 | 1°43 | 13°42 | M20 |
| T 21 | 5 59 57 | 29°43'41 | 29°20 | 0°39 | 19°37 | 6°31 | 26°33 | 6° 0 | 16° 2 | 21°38 | 3° 9 | 24°53 | 24°37 | 1°49 | 13°38 | T 21 |
| W22 | 6 3 54 | 0♑44'51 | 13♓13 | 29♐17 | 20°53 | 7°17 | 26°32 | 6° 7 | 16° 0 | 21°39 | 3° 8 | 24°53 | 24°34 | 1°56 | 13°34 | W22 |
| T 23 | 6 7 50 | 1°46'01 | 26°39 | 27°56 | 22° 8 | 8° 3 | 26°29 | 6°14 | 15°57 | 21°40 | 3° 7 | 24°D52 | 24°31 | 2° 3 | 13°30 | T 23 |
| F 24 | 6 11 47 | 2°47'10 | 9♈40 | 26°39 | 23°24 | 8°49 | 26°27 | 6°21 | 15°55 | 21°40 | 3° 6 | 24°52 | 24°28 | 2° 9 | 13°26 | F 24 |
| S 25 | 6 15 43 | 3°48'20 | 22°20 | 25°28 | 24°39 | 9°35 | 26°25 | 6°28 | 15°52 | 21°41 | 3° 5 | 24°53 | 24°25 | 2°16 | 13°22 | S 25 |
| S 26 | 6 19 40 | 4°49'29 | 4♉42 | 24°25 | 25°55 | 10°21 | 26°22 | 6°35 | 15°50 | 21°42 | 3° 4 | 24°54 | 24°21 | 2°23 | 13°18 | S 26 |
| M27 | 6 23 37 | 5°50'38 | 16°51 | 23°31 | 27°10 | 11° 8 | 26°19 | 6°42 | 15°48 | 21°43 | 3° 2 | 24°55 | 24°18 | 2°29 | 13°13 | M27 |
| T 28 | 6 27 33 | 6°51'48 | 28°49 | 22°47 | 28°26 | 11°54 | 26°16 | 6°50 | 15°45 | 21°44 | 3° 1 | 24°56 | 24°15 | 2°36 | 13° 9 | T 28 |
| W29 | 6 31 30 | 7°52'57 | 10♊41 | 22°13 | 29°41 | 12°40 | 26°13 | 6°57 | 15°43 | 21°45 | 3° 0 | 24°57 | 24°12 | 2°43 | 13° 5 | W29 |
| T 30 | 6 35 26 | 8°54'06 | 22°30 | 21°50 | 0♑56 | 13°27 | 26°10 | 7° 4 | 15°41 | 21°45 | 2°59 | 24°R57 | 24° 9 | 2°49 | 13° 1 | T 30 |
| F 31 | 6 39 23 | 9♑55'15 | 4♋17 | 21♐37 | 2♑12 | 14♑13 | 26♌ 6 | 7♑11 | 15♊38 | 21♓46 | 2♌58 | 24♐57 | 24♐ 6 | 2♋56 | 12♋56 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 21s54 | 22n35 | 2n 4 | 25s46 | 2s17 | 17s59 | 0n58 | 23s57 | 0s45 | 13n32 | 0n53 | 22s50 | 0n36 | 22n53 | 0n 3 | 4s32 | 1s17 | 24n14 | 4n57 | 23s23 | 23s24 | 23n 7 | 15n21 | 7s21 |
| T 2 | 22 3 | 23 30 | 1 1 | 25 42 | 2 13 | 18 19 | 0 56 | 24 0 | 0 46 | 13 32 | 0 53 | 22 50 | 0 36 | 22 53 | 0 4 | 4 32 | 1 17 | 24 14 | 4 57 | 23 23 | 23 24 | 23 7 | 15 20 | 7 22 |
| F 3 | 22 11 | 23 20 | 0s 4 | 25 36 | 2 9 | 18 38 | 0 54 | 24 3 | 0 46 | 13 31 | 0 53 | 22 50 | 0 36 | 22 53 | 0 4 | 4 32 | 1 17 | 24 14 | 4 58 | 23 23 | 23 24 | 23 6 | 15 20 | 7 22 |
| S 4 | 22 19 | 22 8 | 1 9 | 25 29 | 2 3 | 18 58 | 0 52 | 24 6 | 0 46 | 13 31 | 0 53 | 22 50 | 0 36 | 22 53 | 0 4 | 4 32 | 1 17 | 24 15 | 4 58 | 23 23 | 23 24 | 23 5 | 15 20 | 7 23 |
| S 5 | 22 27 | 19 57 | 2 11 | 25 21 | 1 56 | 19 16 | 0 50 | 24 8 | 0 47 | 13 31 | 0 54 | 22 49 | 0 35 | 22 52 | 0 4 | 4 32 | 1 17 | 24 15 | 4 58 | 23 23 | 23 24 | 23 4 | 15 20 | 7 23 |
| M 6 | 22 34 | 16 55 | 3 8 | 25 11 | 1 49 | 19 34 | 0 48 | 24 10 | 0 47 | 13 30 | 0 54 | 22 49 | 0 35 | 22 52 | 0 4 | 4 32 | 1 17 | 24 15 | 4 58 | 23 23 | 23 24 | 23 3 | 15 20 | 7 23 |
| T 7 | 22 41 | 13 10 | 3 57 | 25 1 | 1 40 | 19 51 | 0 45 | 24 12 | 0 48 | 13 30 | 0 54 | 22 49 | 0 35 | 22 52 | 0 4 | 4 32 | 1 17 | 24 16 | 4 58 | 23 23 | 23 24 | 23 2 | 15 20 | 7 24 |
| W 8 | 22 47 | 8 51 | 4 36 | 24 49 | 1 30 | 20 8 | 0 43 | 24 14 | 0 48 | 13 30 | 0 54 | 22 49 | 0 35 | 22 52 | 0 4 | 4 32 | 1 17 | 24 16 | 4 59 | 23 23 | 23 24 | 23 1 | 15 20 | 7 24 |
| T 9 | 22 53 | 4 6 | 5 3 | 24 36 | 1 18 | 20 25 | 0 41 | 24 16 | 0 49 | 13 30 | 0 55 | 22 49 | 0 35 | 22 51 | 0 4 | 4 32 | 1 17 | 24 17 | 4 59 | 23 23 | 23 24 | 23 0 | 15 20 | 7 25 |
| F 10 | 22 59 | 0s56 | 5 17 | 24 22 | 1 6 | 20 40 | 0 39 | 24 17 | 0 49 | 13 30 | 0 55 | 22 49 | 0 35 | 22 51 | 0 4 | 4 32 | 1 16 | 24 17 | 4 59 | 23 23 | 23 23 | 22 59 | 15 20 | 7 25 |
| S 11 | 23 4 | 6 4 | 5 15 | 24 7 | 0 52 | 20 56 | 0 36 | 24 18 | 0 49 | 13 30 | 0 55 | 22 49 | 0 35 | 22 51 | 0 4 | 4 31 | 1 16 | 24 17 | 4 59 | 23 23 | 23 23 | 22 59 | 15 20 | 7 25 |
| S 12 | 23 9 | 11 6 | 4 56 | 23 51 | 0 37 | 21 10 | 0 34 | 24 19 | 0 50 | 13 31 | 0 55 | 22 48 | 0 35 | 22 51 | 0 4 | 4 31 | 1 16 | 24 18 | 4 59 | 23 23 | 23 23 | 22 58 | 15 20 | 7 26 |
| M13 | 23 13 | 15 44 | 4 19 | 23 35 | 0 20 | 21 24 | 0 32 | 24 19 | 0 50 | 13 31 | 0 56 | 22 48 | 0 35 | 22 50 | 0 4 | 4 31 | 1 16 | 24 18 | 4 59 | 23 23 | 23 23 | 22 57 | 15 20 | 7 26 |
| T 14 | 23 16 | 19 37 | 3 25 | 23 18 | 0 2 | 21 37 | 0 29 | 24 19 | 0 51 | 13 31 | 0 56 | 22 48 | 0 35 | 22 50 | 0 4 | 4 31 | 1 16 | 24 18 | 5 0 | 23 23 | 23 23 | 22 56 | 15 20 | 7 27 |
| W15 | 23 19 | 22 20 | 2 15 | 23 1 | 0n16 | 21 50 | 0 27 | 24 19 | 0 51 | 13 32 | 0 56 | 22 48 | 0 35 | 22 50 | 0 4 | 4 31 | 1 16 | 24 19 | 5 0 | 23 23 | 23 23 | 22 55 | 15 20 | 7 27 |
| T 16 | 23 22 | 23 32 | 0 56 | 22 44 | 0 36 | 22 2 | 0 25 | 24 19 | 0 51 | 13 32 | 0 57 | 22 48 | 0 34 | 22 50 | 0 4 | 4 30 | 1 16 | 24 19 | 5 0 | 23 23 | 23 23 | 22 54 | 15 20 | 7 27 |
| F 17 | 23 24 | 23 0 | 0n29 | 22 26 | 0 56 | 22 13 | 0 22 | 24 18 | 0 52 | 13 33 | 0 57 | 22 47 | 0 34 | 22 49 | 0 4 | 4 30 | 1 16 | 24 20 | 5 0 | 23 23 | 23 23 | 22 53 | 15 20 | 7 28 |
| S 18 | 23 26 | 20 46 | 1 51 | 22 8 | 1 16 | 22 24 | 0 20 | 24 17 | 0 52 | 13 33 | 0 57 | 22 47 | 0 34 | 22 49 | 0 4 | 4 30 | 1 16 | 24 20 | 5 0 | 23 23 | 23 23 | 22 52 | 15 20 | 7 28 |
| S 19 | 23 27 | 17 7 | 3 5 | 21 51 | 1 35 | 22 34 | 0 17 | 24 16 | 0 53 | 13 34 | 0 57 | 22 47 | 0 34 | 22 49 | 0 4 | 4 30 | 1 16 | 24 20 | 5 0 | 23 23 | 23 22 | 22 51 | 15 20 | 7 28 |
| M20 | 23 28 | 12 28 | 4 4 | 21 34 | 1 54 | 22 43 | 0 15 | 24 14 | 0 53 | 13 35 | 0 58 | 22 47 | 0 34 | 22 49 | 0 4 | 4 29 | 1 16 | 24 21 | 5 0 | 23 23 | 23 22 | 22 50 | 15 20 | 7 28 |
| T 21 | 23 29 | 7 14 | 4 47 | 21 17 | 2 11 | 22 52 | 0 12 | 24 12 | 0 53 | 13 35 | 0 58 | 22 46 | 0 34 | 22 48 | 0 4 | 4 29 | 1 16 | 24 21 | 5 1 | 23 23 | 23 22 | 22 49 | 15 20 | 7 29 |
| W22 | 23 29 | 1 49 | 5 11 | 21 2 | 2 27 | 23 0 | 0 10 | 24 10 | 0 54 | 13 36 | 0 58 | 22 46 | 0 34 | 22 48 | 0 4 | 4 29 | 1 16 | 24 22 | 5 1 | 23 23 | 23 22 | 22 48 | 15 20 | 7 29 |
| T 23 | 23 28 | 3n31 | 5 18 | 20 48 | 2 40 | 23 7 | 0 8 | 24 8 | 0 54 | 13 37 | 0 58 | 22 46 | 0 34 | 22 48 | 0 4 | 4 29 | 1 16 | 24 22 | 5 1 | 23 23 | 23 22 | 22 47 | 15 21 | 7 29 |
| F 24 | 23 27 | 8 33 | 5 8 | 20 35 | 2 51 | 23 14 | 0 5 | 24 5 | 0 55 | 13 38 | 0 59 | 22 46 | 0 34 | 22 48 | 0 4 | 4 28 | 1 16 | 24 22 | 5 1 | 23 23 | 23 22 | 22 46 | 15 21 | 7 29 |
| S 25 | 23 25 | 13 4 | 4 42 | 20 24 | 3 0 | 23 20 | 0 3 | 24 3 | 0 55 | 13 39 | 0 59 | 22 45 | 0 34 | 22 47 | 0 4 | 4 28 | 1 16 | 24 23 | 5 1 | 23 23 | 23 22 | 22 45 | 15 21 | 7 30 |
| S 26 | 23 23 | 16 57 | 4 5 | 20 16 | 3 6 | 23 25 | 0 0 | 23 59 | 0 55 | 13 40 | 0 59 | 22 45 | 0 34 | 22 47 | 0 4 | 4 28 | 1 16 | 24 23 | 5 1 | 23 23 | 23 21 | 22 44 | 15 21 | 7 30 |
| M27 | 23 21 | 20 2 | 3 16 | 20 10 | 3 10 | 23 29 | 0s 2 | 23 56 | 0 56 | 13 42 | 0 59 | 22 45 | 0 34 | 22 47 | 0 4 | 4 27 | 1 16 | 24 24 | 5 1 | 23 23 | 23 21 | 22 43 | 15 21 | 7 30 |
| T 28 | 23 18 | 22 12 | 2 20 | 20 6 | 3 11 | 23 33 | 0 5 | 23 52 | 0 56 | 13 43 | 1 0 | 22 45 | 0 34 | 22 47 | 0 4 | 4 27 | 1 16 | 24 24 | 5 2 | 23 23 | 23 21 | 22 42 | 15 22 | 7 30 |
| W29 | 23 15 | 23 23 | 1 18 | 20 5 | 3 11 | 23 36 | 0 7 | 23 48 | 0 56 | 13 44 | 1 0 | 22 44 | 0 34 | 22 46 | 0 4 | 4 26 | 1 16 | 24 25 | 5 2 | 23 23 | 23 21 | 22 41 | 15 22 | 7 30 |
| T 30 | 23 11 | 23 30 | 0 14 | 20 5 | 3 9 | 23 38 | 0 9 | 23 44 | 0 57 | 13 45 | 1 0 | 22 44 | 0 33 | 22 46 | 0 4 | 4 26 | 1 16 | 24 25 | 5 2 | 23 23 | 23 21 | 22 40 | 15 22 | 7 30 |
| F 31 | 23s 6 | 22n33 | 0s52 | 20s 8 | 3n 5 | 23s39 | 0s12 | 23s40 | 0s57 | 13n47 | 1n 0 | 22s44 | 0n33 | 22n46 | 0n 4 | 4s26 | 1s16 | 24n25 | 5n 2 | 23s23 | 23s21 | 22n39 | 15n22 | 7s30 |

Julian Day Number = 2340115.5, Delta T = 16.23 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'54, Lahiri = 19°35'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## JANUARY 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 43 19 | 10♑56'24 | 16♋ 6 | 21°D33 | 3♑27 | 15♑ 0 | 26°R 3 | 7♑18 | 15°R36 | 21♓47 | 2°R56 | 24°R56 | 24♐ 2 | 3♋ 3 | 12°R52 | S 1 |
| S 2 | 6 47 16 | 11°57'32 | 27°58 | 21♐38 | 4°43 | 15°46 | 25♌59 | 7°25 | 15♊34 | 21°48 | 2♌55 | 24♐54 | 23°59 | 3° 9 | 12♋48 | S 2 |
| M 3 | 6 51 12 | 12°58'41 | 9♌56 | 21°51 | 5°58 | 16°33 | 25°55 | 7°32 | 15°32 | 21°49 | 2°54 | 24°51 | 23°56 | 3°16 | 12°44 | M 3 |
| T 4 | 6 55 9 | 13°59'49 | 22° 0 | 22°12 | 7°14 | 17°19 | 25°51 | 7°39 | 15°29 | 21°51 | 2°52 | 24°48 | 23°53 | 3°22 | 12°39 | T 4 |
| W 5 | 6 59 6 | 15° 0'58 | 4♍15 | 22°40 | 8°29 | 18° 6 | 25°46 | 7°46 | 15°27 | 21°52 | 2°51 | 24°45 | 23°50 | 3°29 | 12°35 | W 5 |
| T 6 | 7 3 2 | 16° 2'06 | 16°41 | 23°14 | 9°45 | 18°52 | 25°42 | 7°53 | 15°25 | 21°53 | 2°50 | 24°42 | 23°46 | 3°36 | 12°31 | T 6 |
| F 7 | 7 6 59 | 17° 3'14 | 29°23 | 23°53 | 11° 0 | 19°39 | 25°37 | 8° 0 | 15°23 | 21°54 | 2°49 | 24°40 | 23°43 | 3°42 | 12°26 | F 7 |
| S 8 | 7 10 55 | 18° 4'22 | 12♎22 | 24°38 | 12°16 | 20°26 | 25°32 | 8° 7 | 15°21 | 21°55 | 2°47 | 24°D39 | 23°40 | 3°49 | 12°22 | S 8 |
| S 9 | 7 14 52 | 19° 5'30 | 25°42 | 25°27 | 13°31 | 21°12 | 25°27 | 8°14 | 15°19 | 21°56 | 2°46 | 24°39 | 23°37 | 3°56 | 12°18 | S 9 |
| M10 | 7 18 48 | 20° 6'38 | 9♏25 | 26°20 | 14°46 | 21°59 | 25°22 | 8°21 | 15°17 | 21°58 | 2°45 | 24°40 | 23°34 | 4° 2 | 12°14 | M10 |
| T 11 | 7 22 45 | 21° 7'46 | 23°32 | 27°16 | 16° 2 | 22°46 | 25°16 | 8°28 | 15°15 | 21°59 | 2°43 | 24°41 | 23°31 | 4° 9 | 12° 9 | T 11 |
| W12 | 7 26 41 | 22° 8'54 | 8♐ 2 | 28°16 | 17°17 | 23°33 | 25°11 | 8°35 | 15°13 | 22° 0 | 2°42 | 24°43 | 23°27 | 4°16 | 12° 5 | W12 |
| T 13 | 7 30 38 | 23°10'01 | 22°53 | 29°19 | 18°33 | 24°20 | 25° 5 | 8°42 | 15°11 | 22° 2 | 2°41 | 24°R44 | 23°24 | 4°22 | 12° 1 | T 13 |
| F 14 | 7 34 35 | 24°11'08 | 7♑57 | 0♑24 | 19°48 | 25° 7 | 24°59 | 8°49 | 15° 9 | 22° 3 | 2°39 | 24°43 | 23°21 | 4°29 | 11°57 | F 14 |
| S 15 | 7 38 31 | 25°12'15 | 23° 8 | 1°32 | 21° 4 | 25°54 | 24°53 | 8°56 | 15° 8 | 22° 4 | 2°38 | 24°41 | 23°18 | 4°36 | 11°53 | S 15 |
| S 16 | 7 42 28 | 26°13'20 | 8♒14 | 2°42 | 22°19 | 26°40 | 24°47 | 9° 3 | 15° 6 | 22° 6 | 2°36 | 24°37 | 23°15 | 4°42 | 11°49 | S 16 |
| M17 | 7 46 24 | 27°14'25 | 23° 8 | 3°54 | 23°35 | 27°27 | 24°41 | 9°10 | 15° 4 | 22° 7 | 2°35 | 24°32 | 23°12 | 4°49 | 11°45 | M17 |
| T 18 | 7 50 21 | 28°15'29 | 7♓39 | 5° 8 | 24°50 | 28°14 | 24°34 | 9°16 | 15° 3 | 22° 9 | 2°34 | 24°27 | 23° 8 | 4°56 | 11°40 | T 18 |
| W19 | 7 54 17 | 29°16'32 | 21°45 | 6°23 | 26° 5 | 29° 1 | 24°28 | 9°23 | 15° 1 | 22°10 | 2°32 | 24°22 | 23° 5 | 5° 2 | 11°36 | W19 |
| T 20 | 7 58 14 | 0♒17'34 | 5♈21 | 7°40 | 27°21 | 29°48 | 24°21 | 9°30 | 14°59 | 22°12 | 2°31 | 24°18 | 23° 2 | 5° 9 | 11°32 | T 20 |
| F 21 | 8 2 11 | 1°18'35 | 18°29 | 8°58 | 28°36 | 0♒35 | 24°15 | 9°37 | 14°58 | 22°14 | 2°30 | 24°16 | 22°59 | 5°15 | 11°29 | F 21 |
| S 22 | 8 6 7 | 2°19'35 | 1♉12 | 10°17 | 29°51 | 1°23 | 24° 8 | 9°43 | 14°56 | 22°15 | 2°28 | 24°D15 | 22°56 | 5°22 | 11°25 | S 22 |
| S 23 | 8 10 4 | 3°20'34 | 13°34 | 11°38 | 1♒ 7 | 2°10 | 24° 1 | 9°50 | 14°55 | 22°17 | 2°27 | 24°15 | 22°52 | 5°29 | 11°21 | S 23 |
| M24 | 8 14 0 | 4°21'31 | 25°40 | 13° 0 | 2°22 | 2°57 | 23°54 | 9°57 | 14°53 | 22°18 | 2°26 | 24°17 | 22°49 | 5°35 | 11°17 | M24 |
| T 25 | 8 17 57 | 5°22'28 | 7♊34 | 14°23 | 3°38 | 3°44 | 23°47 | 10° 3 | 14°52 | 22°20 | 2°24 | 24°18 | 22°46 | 5°42 | 11°13 | T 25 |
| W26 | 8 21 53 | 6°23'23 | 19°22 | 15°47 | 4°53 | 4°31 | 23°39 | 10°10 | 14°51 | 22°22 | 2°23 | 24°R19 | 22°43 | 5°49 | 11° 9 | W26 |
| T 27 | 8 25 50 | 7°24'16 | 1♋ 8 | 17°11 | 6° 8 | 5°18 | 23°32 | 10°17 | 14°49 | 22°23 | 2°21 | 24°19 | 22°40 | 5°55 | 11° 6 | T 27 |
| F 28 | 8 29 46 | 8°25'09 | 12°56 | 18°37 | 7°23 | 6° 5 | 23°25 | 10°23 | 14°48 | 22°25 | 2°20 | 24°17 | 22°37 | 6° 2 | 11° 2 | F 28 |
| S 29 | 8 33 43 | 9°26'00 | 24°49 | 20° 4 | 8°39 | 6°52 | 23°17 | 10°30 | 14°47 | 22°27 | 2°19 | 24°13 | 22°33 | 6° 9 | 10°59 | S 29 |
| S 30 | 8 37 40 | 10°26'51 | 6♌49 | 21°32 | 9°54 | 7°40 | 23°10 | 10°36 | 14°46 | 22°29 | 2°17 | 24° 7 | 22°30 | 6°15 | 10°55 | S 30 |
| M31 | 8 41 36 | 11♒27'40 | 18♌57 | 23♑ 0 | 11♒ 9 | 8♒27 | 23♌ 2 | 10♑43 | 14♊45 | 22♓31 | 2♌16 | 23♐59 | 22♐27 | 6♋22 | 10♋52 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 2 | 20n37 | 1s55 | 20s13 | 3n 0 | 23s40 | 0s14 | 23s35 | 0s57 | 13n48 | 1n 1 | 22s43 | 0n33 | 22n46 | 0n 4 | 4s25 | 1s16 | 24n26 | 5n 2 | 23s23 | 23s21 | 22n38 | 15n23 | 7s31 |
| S 2 | 22 56 | 17 47 | 2 53 | 20 19 | 2 54 | 23 40 | 0 17 | 23 30 | 0 58 | 13 50 | 1 1 | 22 43 | 0 33 | 22 45 | 0 4 | 4 25 | 1 16 | 24 26 | 5 2 | 23 23 | 23 20 | 22 37 | 15 23 | 7 31 |
| M 3 | 22 51 | 14 12 | 3 44 | 20 27 | 2 47 | 23 40 | 0 19 | 23 25 | 0 58 | 13 52 | 1 1 | 22 43 | 0 33 | 22 45 | 0 4 | 4 24 | 1 16 | 24 27 | 5 2 | 23 23 | 23 20 | 22 36 | 15 23 | 7 31 |
| T 4 | 22 45 | 10 0 | 4 25 | 20 36 | 2 39 | 23 38 | 0 21 | 23 19 | 0 58 | 13 53 | 1 1 | 22 42 | 0 33 | 22 45 | 0 4 | 4 24 | 1 16 | 24 27 | 5 3 | 23 23 | 23 20 | 22 35 | 15 24 | 7 31 |
| W 5 | 22 38 | 5 23 | 4 56 | 20 45 | 2 31 | 23 36 | 0 24 | 23 13 | 0 58 | 13 55 | 1 2 | 22 42 | 0 33 | 22 45 | 0 4 | 4 23 | 1 16 | 24 27 | 5 3 | 23 22 | 23 20 | 22 34 | 15 24 | 7 31 |
| T 6 | 22 31 | 0 28 | 5 12 | 20 56 | 2 23 | 23 33 | 0 26 | 23 7 | 0 59 | 13 57 | 1 2 | 22 42 | 0 33 | 22 45 | 0 4 | 4 23 | 1 16 | 24 28 | 5 3 | 23 22 | 23 20 | 22 33 | 15 24 | 7 31 |
| F 7 | 22 23 | 4s33 | 5 14 | 21 7 | 2 14 | 23 29 | 0 28 | 23 1 | 0 59 | 13 59 | 1 2 | 22 41 | 0 33 | 22 44 | 0 4 | 4 22 | 1 16 | 24 28 | 5 3 | 23 22 | 23 20 | 22 32 | 15 25 | 7 31 |
| S 8 | 22 15 | 9 30 | 5 0 | 21 18 | 2 5 | 23 25 | 0 30 | 22 54 | 0 59 | 14 0 | 1 2 | 22 41 | 0 33 | 22 44 | 0 4 | 4 22 | 1 15 | 24 29 | 5 3 | 23 22 | 23 20 | 22 31 | 15 25 | 7 31 |
| S 9 | 22 7 | 14 8 | 4 30 | 21 29 | 1 55 | 23 20 | 0 33 | 22 47 | 1 0 | 14 2 | 1 2 | 22 41 | 0 33 | 22 44 | 0 4 | 4 21 | 1 15 | 24 29 | 5 3 | 23 22 | 23 19 | 22 30 | 15 25 | 7 31 |
| M10 | 21 58 | 18 12 | 3 44 | 21 40 | 1 46 | 23 14 | 0 35 | 22 40 | 1 0 | 14 4 | 1 3 | 22 40 | 0 33 | 22 44 | 0 4 | 4 21 | 1 15 | 24 30 | 5 3 | 23 22 | 23 19 | 22 29 | 15 26 | 7 31 |
| T 11 | 21 49 | 21 19 | 2 43 | 21 51 | 1 36 | 23 8 | 0 37 | 22 32 | 1 0 | 14 6 | 1 3 | 22 40 | 0 33 | 22 44 | 0 4 | 4 20 | 1 15 | 24 30 | 5 3 | 23 22 | 23 19 | 22 28 | 15 26 | 7 31 |
| W12 | 21 39 | 23 10 | 1 31 | 22 1 | 1 27 | 23 0 | 0 39 | 22 25 | 1 0 | 14 8 | 1 3 | 22 39 | 0 33 | 22 43 | 0 4 | 4 20 | 1 15 | 24 30 | 5 3 | 23 22 | 23 19 | 22 27 | 15 27 | 7 31 |
| T 13 | 21 29 | 23 27 | 0 10 | 22 11 | 1 17 | 22 52 | 0 41 | 22 17 | 1 1 | 14 11 | 1 3 | 22 39 | 0 33 | 22 43 | 0 4 | 4 19 | 1 15 | 24 31 | 5 3 | 23 22 | 23 19 | 22 26 | 15 27 | 7 31 |
| F 14 | 21 19 | 22 2 | 1n12 | 22 21 | 1 8 | 22 44 | 0 43 | 22 9 | 1 1 | 14 13 | 1 4 | 22 39 | 0 33 | 22 43 | 0 4 | 4 19 | 1 15 | 24 31 | 5 4 | 23 22 | 23 19 | 22 24 | 15 28 | 7 31 |
| S 15 | 21 8 | 19 2 | 2 30 | 22 30 | 0 59 | 22 34 | 0 45 | 22 0 | 1 1 | 14 15 | 1 4 | 22 38 | 0 32 | 22 43 | 0 4 | 4 18 | 1 15 | 24 32 | 5 4 | 23 22 | 23 19 | 22 23 | 15 28 | 7 30 |
| S 16 | 20 56 | 14 45 | 3 36 | 22 38 | 0 49 | 22 24 | 0 47 | 21 51 | 1 1 | 14 17 | 1 4 | 22 38 | 0 32 | 22 43 | 0 4 | 4 17 | 1 15 | 24 32 | 5 4 | 23 22 | 23 18 | 22 22 | 15 29 | 7 30 |
| M17 | 20 45 | 9 37 | 4 27 | 22 45 | 0 40 | 22 14 | 0 49 | 21 42 | 1 1 | 14 20 | 1 4 | 22 37 | 0 32 | 22 42 | 0 4 | 4 17 | 1 15 | 24 32 | 5 4 | 23 22 | 23 18 | 22 21 | 15 29 | 7 30 |
| T 18 | 20 33 | 4 5 | 4 59 | 22 52 | 0 31 | 22 2 | 0 51 | 21 33 | 1 2 | 14 22 | 1 4 | 22 37 | 0 32 | 22 42 | 0 4 | 4 16 | 1 15 | 24 33 | 5 4 | 23 22 | 23 18 | 22 20 | 15 29 | 7 30 |
| W19 | 20 20 | 1n30 | 5 12 | 22 57 | 0 22 | 21 50 | 0 53 | 21 24 | 1 2 | 14 24 | 1 5 | 22 37 | 0 32 | 22 42 | 0 4 | 4 16 | 1 15 | 24 33 | 5 4 | 23 22 | 23 18 | 22 19 | 15 30 | 7 30 |
| T 20 | 20 7 | 6 49 | 5 7 | 23 2 | 0 14 | 21 38 | 0 55 | 21 14 | 1 2 | 14 27 | 1 5 | 22 36 | 0 32 | 22 42 | 0 4 | 4 15 | 1 15 | 24 34 | 5 4 | 23 21 | 23 18 | 22 18 | 15 30 | 7 30 |
| F 21 | 19 54 | 11 39 | 4 45 | 23 5 | 0 5 | 21 24 | 0 57 | 21 4 | 1 2 | 14 29 | 1 5 | 22 36 | 0 32 | 22 42 | 0 4 | 4 14 | 1 15 | 24 34 | 5 4 | 23 21 | 23 18 | 22 17 | 15 31 | 7 30 |
| S 22 | 19 40 | 15 49 | 4 10 | 23 8 | 0s 3 | 21 10 | 0 59 | 20 54 | 1 2 | 14 32 | 1 5 | 22 35 | 0 32 | 22 41 | 0 4 | 4 14 | 1 15 | 24 34 | 5 4 | 23 21 | 23 17 | 22 16 | 15 32 | 7 29 |
| S 23 | 19 26 | 19 11 | 3 24 | 23 9 | 0 11 | 20 55 | 1 0 | 20 44 | 1 3 | 14 34 | 1 5 | 22 35 | 0 32 | 22 41 | 0 4 | 4 13 | 1 15 | 24 35 | 5 4 | 23 21 | 23 17 | 22 14 | 15 32 | 7 29 |
| M24 | 19 12 | 21 38 | 2 30 | 23 10 | 0 19 | 20 40 | 1 2 | 20 33 | 1 3 | 14 37 | 1 6 | 22 34 | 0 32 | 22 41 | 0 4 | 4 12 | 1 15 | 24 35 | 5 4 | 23 21 | 23 17 | 22 13 | 15 33 | 7 29 |
| T 25 | 18 57 | 23 5 | 1 30 | 23 9 | 0 27 | 20 24 | 1 4 | 20 22 | 1 3 | 14 39 | 1 6 | 22 34 | 0 32 | 22 41 | 0 4 | 4 12 | 1 15 | 24 36 | 5 4 | 23 21 | 23 17 | 22 12 | 15 33 | 7 29 |
| W26 | 18 42 | 23 30 | 0 27 | 23 7 | 0 34 | 20 8 | 1 5 | 20 11 | 1 3 | 14 42 | 1 6 | 22 33 | 0 32 | 22 41 | 0 4 | 4 11 | 1 15 | 24 36 | 5 5 | 23 21 | 23 17 | 22 11 | 15 34 | 7 28 |
| T 27 | 18 27 | 22 51 | 0s37 | 23 3 | 0 41 | 19 51 | 1 7 | 20 0 | 1 3 | 14 44 | 1 6 | 22 33 | 0 32 | 22 41 | 0 4 | 4 10 | 1 15 | 24 36 | 5 5 | 23 21 | 23 16 | 22 10 | 15 34 | 7 28 |
| F 28 | 18 11 | 21 12 | 1 39 | 22 59 | 0 48 | 19 33 | 1 8 | 19 48 | 1 4 | 14 47 | 1 6 | 22 33 | 0 32 | 22 41 | 0 4 | 4 10 | 1 15 | 24 37 | 5 5 | 23 21 | 23 16 | 22 9 | 15 35 | 7 28 |
| S 29 | 17 55 | 18 37 | 2 38 | 22 53 | 0 55 | 19 15 | 1 10 | 19 37 | 1 4 | 14 49 | 1 6 | 22 32 | 0 32 | 22 40 | 0 4 | 4 9 | 1 15 | 24 37 | 5 5 | 23 21 | 23 16 | 22 8 | 15 35 | 7 28 |
| S 30 | 17 39 | 15 13 | 3 29 | 22 46 | 1 2 | 18 56 | 1 11 | 19 25 | 1 4 | 14 52 | 1 7 | 22 32 | 0 32 | 22 40 | 0 4 | 4 8 | 1 15 | 24 38 | 5 5 | 23 21 | 23 16 | 22 6 | 15 36 | 7 27 |
| M31 | 17s22 | 11n10 | 4s12 | 22s38 | 1s 8 | 18s37 | 1s12 | 19s13 | 1s 4 | 14n55 | 1n 7 | 22s31 | 0n32 | 22n40 | 0n 4 | 4s 7 | 1s15 | 24n38 | 5n 5 | 23s20 | 23s16 | 22n 5 | 15n37 | 7s27 |

Julian Day Number = 2340146.5, Delta T = 16.19 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°28'58, Lahiri = 19°35'58Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## FEBRUARY 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 8 45 33 | 12♒28'27 | 1♍16 | 24♑29 | 12♒25 | 9♒14 | 22°R54 | 10♑49 | 14°R44 | 22♓32 | 2°R15 | 23°R49 | 22♐24 | 6♋29 | 10°R48 | T 1 |
| W 2 | 8 49 29 | 13°29'14 | 13°44 | 26° 0 | 13°40 | 10° 1 | 22♌47 | 10°55 | 14♊43 | 22°34 | 2♌13 | 23♐40 | 22°21 | 6°35 | 10♋45 | W 2 |
| T 3 | 8 53 26 | 14°29'59 | 26°25 | 27°31 | 14°55 | 10°49 | 22°39 | 11° 2 | 14°42 | 22°36 | 2°12 | 23°31 | 22°17 | 6°42 | 10°42 | T 3 |
| F 4 | 8 57 22 | 15°30'44 | 9♎17 | 29° 3 | 16°10 | 11°36 | 22°31 | 11° 8 | 14°41 | 22°38 | 2°11 | 23°23 | 22°14 | 6°49 | 10°38 | F 4 |
| S 5 | 9 1 19 | 16°31'27 | 22°23 | 0♒35 | 17°26 | 12°23 | 22°23 | 11°14 | 14°40 | 22°40 | 2° 9 | 23°18 | 22°11 | 6°55 | 10°35 | S 5 |
| S 6 | 9 5 15 | 17°32'09 | 5♏43 | 2° 9 | 18°41 | 13°10 | 22°15 | 11°20 | 14°39 | 22°42 | 2° 8 | 23°16 | 22° 8 | 7° 2 | 10°32 | S 6 |
| M 7 | 9 9 12 | 18°32'51 | 19°19 | 3°43 | 19°56 | 13°58 | 22° 7 | 11°26 | 14°38 | 22°44 | 2° 7 | 23°D15 | 22° 5 | 7° 8 | 10°29 | M 7 |
| T 8 | 9 13 9 | 19°33'31 | 3♐13 | 5°18 | 21°11 | 14°45 | 21°59 | 11°33 | 14°38 | 22°46 | 2° 5 | 23°15 | 22° 2 | 7°15 | 10°26 | T 8 |
| W 9 | 9 17 5 | 20°34'10 | 17°24 | 6°54 | 22°26 | 15°32 | 21°52 | 11°39 | 14°37 | 22°48 | 2° 4 | 23°R16 | 21°58 | 7°22 | 10°23 | W 9 |
| T 10 | 9 21 2 | 21°34'48 | 1♑53 | 8°31 | 23°42 | 16°20 | 21°44 | 11°45 | 14°36 | 22°50 | 2° 3 | 23°16 | 21°55 | 7°28 | 10°20 | T 10 |
| F 11 | 9 24 58 | 22°35'25 | 16°35 | 10° 9 | 24°57 | 17° 7 | 21°36 | 11°51 | 14°36 | 22°52 | 2° 1 | 23°14 | 21°52 | 7°35 | 10°18 | F 11 |
| S 12 | 9 28 55 | 23°36'00 | 1♒26 | 11°47 | 26°12 | 17°54 | 21°28 | 11°56 | 14°35 | 22°54 | 2° 0 | 23° 9 | 21°49 | 7°42 | 10°15 | S 12 |
| S 13 | 9 32 51 | 24°36'34 | 16°18 | 13°27 | 27°27 | 18°42 | 21°20 | 12° 2 | 14°35 | 22°56 | 1°59 | 23° 2 | 21°46 | 7°48 | 10°12 | S 13 |
| M14 | 9 36 48 | 25°37'07 | 1♓ 3 | 15° 7 | 28°42 | 19°29 | 21°12 | 12° 8 | 14°35 | 22°58 | 1°58 | 22°52 | 21°43 | 7°55 | 10°10 | M14 |
| T 15 | 9 40 44 | 26°37'37 | 15°33 | 16°48 | 29°57 | 20°17 | 21° 4 | 12°14 | 14°34 | 23° 0 | 1°56 | 22°42 | 21°39 | 8° 2 | 10° 8 | T 15 |
| W16 | 9 44 41 | 27°38'06 | 29°40 | 18°31 | 1♈12 | 21° 4 | 20°56 | 12°20 | 14°34 | 23° 2 | 1°55 | 22°31 | 21°36 | 8° 8 | 10° 5 | W16 |
| T 17 | 9 48 38 | 28°38'34 | 13♈21 | 20°14 | 2°28 | 21°51 | 20°48 | 12°25 | 14°34 | 23° 4 | 1°54 | 22°22 | 21°33 | 8°15 | 10° 3 | T 17 |
| F 18 | 9 52 34 | 29°38'59 | 26°35 | 21°58 | 3°43 | 22°39 | 20°41 | 12°31 | 14°34 | 23° 6 | 1°53 | 22°15 | 21°30 | 8°22 | 10° 1 | F 18 |
| S 19 | 9 56 31 | 0♓39'23 | 9♉23 | 23°43 | 4°58 | 23°26 | 20°33 | 12°36 | 14°33 | 23° 8 | 1°52 | 22°11 | 21°27 | 8°28 | 9°59 | S 19 |
| S 20 | 10 0 27 | 1°39'44 | 21°48 | 25°29 | 6°13 | 24°13 | 20°25 | 12°42 | 14°33 | 23°11 | 1°50 | 22° 8 | 21°23 | 8°35 | 9°57 | S 20 |
| M21 | 10 4 24 | 2°40'04 | 3♊56 | 27°16 | 7°28 | 25° 1 | 20°18 | 12°47 | 14°D33 | 23°13 | 1°49 | 22°D 8 | 21°20 | 8°42 | 9°55 | M21 |
| T 22 | 10 8 20 | 3°40'21 | 15°51 | 29° 4 | 8°43 | 25°48 | 20°10 | 12°52 | 14°33 | 23°15 | 1°48 | 22°R 8 | 21°17 | 8°48 | 9°53 | T 22 |
| W23 | 10 12 17 | 4°40'37 | 27°39 | 0♓53 | 9°58 | 26°35 | 20° 2 | 12°58 | 14°34 | 23°17 | 1°47 | 22° 8 | 21°14 | 8°55 | 9°51 | W23 |
| T 24 | 10 16 13 | 5°40'51 | 9♋26 | 2°43 | 11°13 | 27°23 | 19°55 | 13° 3 | 14°34 | 23°19 | 1°46 | 22° 7 | 21°11 | 9° 2 | 9°50 | T 24 |
| F 25 | 10 20 10 | 6°41'02 | 21°16 | 4°34 | 12°28 | 28°10 | 19°48 | 13° 8 | 14°34 | 23°21 | 1°45 | 22° 3 | 21° 8 | 9° 8 | 9°48 | F 25 |
| S 26 | 10 24 7 | 7°41'12 | 3♌13 | 6°26 | 13°42 | 28°57 | 19°40 | 13°13 | 14°34 | 23°24 | 1°44 | 21°57 | 21° 4 | 9°15 | 9°47 | S 26 |
| S 27 | 10 28 3 | 8°41'19 | 15°21 | 8°19 | 14°57 | 29°45 | 19°33 | 13°18 | 14°34 | 23°26 | 1°43 | 21°48 | 21° 1 | 9°22 | 9°45 | S 27 |
| M28 | 10 32 0 | 9♓41'25 | 27♌42 | 10♓13 | 16♓12 | 0♓32 | 19♌26 | 13♑23 | 14♊35 | 23♓28 | 1♌42 | 21♐36 | 20♐58 | 9♋28 | 9♋44 | M28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17s 5 | 6n37 | 4s44 | 22s28 | 1s14 | 18s17 | 1s14 | 19s 0 | 1s 4 | 14n57 | 1n 7 | 22s31 | 0n32 | 22n40 | 0n 4 | 4s 7 | 1s15 | 24n38 | 5n 5 | 23s20 | 23s16 | 22n 4 | 15n37 | 7s27 |
| W 2 | 16 48 | 1 45 | 5 2 | 22 17 | 1 19 | 17 57 | 1 15 | 18 48 | 1 4 | 15 0 | 1 7 | 22 30 | 0 32 | 22 40 | 0 4 | 4 6 | 1 15 | 24 39 | 5 5 | 23 20 | 23 15 | 22 3 | 15 38 | 7 26 |
| T 3 | 16 31 | 3s15 | 5 6 | 22 5 | 1 25 | 17 36 | 1 16 | 18 35 | 1 4 | 15 3 | 1 7 | 22 30 | 0 32 | 22 40 | 0 4 | 4 5 | 1 15 | 24 39 | 5 5 | 23 19 | 23 15 | 22 2 | 15 38 | 7 26 |
| F 4 | 16 13 | 8 12 | 4 55 | 21 51 | 1 30 | 17 14 | 1 17 | 18 22 | 1 4 | 15 5 | 1 7 | 22 29 | 0 31 | 22 40 | 0 4 | 4 4 | 1 15 | 24 39 | 5 5 | 23 19 | 23 15 | 22 0 | 15 39 | 7 26 |
| S 5 | 15 55 | 12 52 | 4 29 | 21 36 | 1 35 | 16 53 | 1 18 | 18 9 | 1 4 | 15 8 | 1 7 | 22 29 | 0 31 | 22 40 | 0 4 | 4 4 | 1 15 | 24 40 | 5 5 | 23 19 | 23 15 | 21 59 | 15 40 | 7 25 |
| S 6 | 15 36 | 17 1 | 3 47 | 21 20 | 1 39 | 16 30 | 1 19 | 17 55 | 1 5 | 15 11 | 1 7 | 22 28 | 0 31 | 22 40 | 0 4 | 4 3 | 1 15 | 24 40 | 5 5 | 23 18 | 23 15 | 21 58 | 15 40 | 7 25 |
| M 7 | 15 18 | 20 20 | 2 52 | 21 2 | 1 44 | 16 8 | 1 20 | 17 42 | 1 5 | 15 13 | 1 8 | 22 28 | 0 31 | 22 40 | 0 4 | 4 2 | 1 15 | 24 40 | 5 5 | 23 18 | 23 14 | 21 57 | 15 41 | 7 24 |
| T 8 | 14 59 | 22 34 | 1 46 | 20 43 | 1 47 | 15 44 | 1 21 | 17 28 | 1 5 | 15 16 | 1 8 | 22 27 | 0 31 | 22 40 | 0 4 | 4 1 | 1 15 | 24 41 | 5 5 | 23 18 | 23 14 | 21 56 | 15 41 | 7 24 |
| W 9 | 14 39 | 23 24 | 0 31 | 20 22 | 1 51 | 15 21 | 1 22 | 17 14 | 1 5 | 15 19 | 1 8 | 22 27 | 0 31 | 22 39 | 0 4 | 4 0 | 1 15 | 24 41 | 5 5 | 23 18 | 23 14 | 21 54 | 15 42 | 7 24 |
| T 10 | 14 20 | 22 42 | 0n46 | 20 0 | 1 54 | 14 57 | 1 22 | 17 0 | 1 5 | 15 21 | 1 8 | 22 26 | 0 31 | 22 39 | 0 4 | 4 0 | 1 15 | 24 41 | 5 5 | 23 18 | 23 14 | 21 53 | 15 43 | 7 23 |
| F 11 | 14 0 | 20 26 | 2 1 | 19 37 | 1 57 | 14 32 | 1 23 | 16 46 | 1 5 | 15 24 | 1 8 | 22 26 | 0 31 | 22 39 | 0 4 | 3 59 | 1 15 | 24 42 | 5 5 | 23 18 | 23 14 | 21 52 | 15 43 | 7 23 |
| S 12 | 13 41 | 16 48 | 3 9 | 19 12 | 2 0 | 14 7 | 1 24 | 16 31 | 1 5 | 15 27 | 1 8 | 22 25 | 0 31 | 22 39 | 0 4 | 3 58 | 1 15 | 24 42 | 5 5 | 23 18 | 23 14 | 21 51 | 15 44 | 7 22 |
| S 13 | 13 20 | 12 5 | 4 4 | 18 45 | 2 2 | 13 42 | 1 24 | 16 17 | 1 5 | 15 29 | 1 8 | 22 25 | 0 31 | 22 39 | 0 4 | 3 57 | 1 15 | 24 42 | 5 5 | 23 18 | 23 13 | 21 49 | 15 45 | 7 22 |
| M14 | 13 0 | 6 43 | 4 42 | 18 18 | 2 3 | 13 16 | 1 25 | 16 2 | 1 5 | 15 32 | 1 8 | 22 24 | 0 31 | 22 39 | 0 4 | 3 56 | 1 15 | 24 43 | 5 5 | 23 17 | 23 13 | 21 48 | 15 45 | 7 21 |
| T 15 | 12 40 | 1 5 | 5 1 | 17 48 | 2 5 | 12 50 | 1 25 | 15 47 | 1 5 | 15 35 | 1 8 | 22 24 | 0 31 | 22 39 | 0 4 | 3 56 | 1 15 | 24 43 | 5 5 | 23 17 | 23 13 | 21 47 | 15 46 | 7 21 |
| W16 | 12 19 | 4n28 | 5 1 | 17 18 | 2 6 | 12 24 | 1 26 | 15 32 | 1 5 | 15 37 | 1 8 | 22 24 | 0 31 | 22 39 | 0 4 | 3 55 | 1 15 | 24 43 | 5 5 | 23 16 | 23 13 | 21 46 | 15 47 | 7 20 |
| T 17 | 11 58 | 9 38 | 4 44 | 16 46 | 2 6 | 11 57 | 1 26 | 15 16 | 1 5 | 15 40 | 1 8 | 22 23 | 0 31 | 22 39 | 0 4 | 3 54 | 1 15 | 24 43 | 5 5 | 23 16 | 23 13 | 21 45 | 15 47 | 7 20 |
| F 18 | 11 37 | 14 10 | 4 11 | 16 12 | 2 7 | 11 30 | 1 26 | 15 1 | 1 5 | 15 42 | 1 9 | 22 23 | 0 31 | 22 39 | 0 4 | 3 53 | 1 15 | 24 44 | 5 5 | 23 15 | 23 12 | 21 43 | 15 48 | 7 19 |
| S 19 | 11 16 | 17 55 | 3 27 | 15 37 | 2 6 | 11 3 | 1 26 | 14 45 | 1 5 | 15 45 | 1 9 | 22 22 | 0 31 | 22 39 | 0 4 | 3 52 | 1 15 | 24 44 | 5 5 | 23 15 | 23 12 | 21 42 | 15 48 | 7 19 |
| S 20 | 10 54 | 20 44 | 2 34 | 15 1 | 2 6 | 10 35 | 1 27 | 14 30 | 1 5 | 15 47 | 1 9 | 22 22 | 0 31 | 22 39 | 0 4 | 3 51 | 1 15 | 24 44 | 5 5 | 23 15 | 23 12 | 21 41 | 15 49 | 7 18 |
| M21 | 10 32 | 22 32 | 1 35 | 14 23 | 2 4 | 10 7 | 1 27 | 14 14 | 1 5 | 15 50 | 1 9 | 22 21 | 0 31 | 22 39 | 0 4 | 3 50 | 1 15 | 24 45 | 5 5 | 23 15 | 23 12 | 21 39 | 15 50 | 7 18 |
| T 22 | 10 11 | 23 17 | 0 33 | 13 44 | 2 3 | 9 39 | 1 27 | 13 58 | 1 5 | 15 52 | 1 9 | 22 21 | 0 31 | 22 39 | 0 4 | 3 50 | 1 15 | 24 45 | 5 5 | 23 15 | 23 11 | 21 38 | 15 50 | 7 17 |
| W23 | 9 49 | 22 58 | 0s29 | 13 3 | 2 1 | 9 11 | 1 27 | 13 41 | 1 5 | 15 55 | 1 9 | 22 20 | 0 31 | 22 39 | 0 4 | 3 49 | 1 15 | 24 45 | 5 5 | 23 15 | 23 11 | 21 37 | 15 51 | 7 17 |
| T 24 | 9 27 | 21 38 | 1 31 | 12 21 | 1 58 | 8 42 | 1 26 | 13 25 | 1 5 | 15 57 | 1 9 | 22 20 | 0 31 | 22 39 | 0 4 | 3 48 | 1 15 | 24 45 | 5 5 | 23 15 | 23 11 | 21 36 | 15 52 | 7 16 |
| F 25 | 9 4 | 19 21 | 2 28 | 11 38 | 1 55 | 8 13 | 1 26 | 13 9 | 1 5 | 15 59 | 1 9 | 22 19 | 0 31 | 22 39 | 0 4 | 3 47 | 1 15 | 24 46 | 5 5 | 23 14 | 23 11 | 21 34 | 15 52 | 7 16 |
| S 26 | 8 42 | 16 14 | 3 20 | 10 53 | 1 51 | 7 44 | 1 26 | 12 52 | 1 5 | 16 2 | 1 9 | 22 19 | 0 31 | 22 39 | 0 4 | 3 46 | 1 15 | 24 46 | 5 5 | 23 14 | 23 11 | 21 33 | 15 53 | 7 15 |
| S 27 | 8 20 | 12 23 | 4 3 | 10 7 | 1 47 | 7 15 | 1 26 | 12 36 | 1 5 | 16 4 | 1 9 | 22 18 | 0 31 | 22 39 | 0 4 | 3 45 | 1 15 | 24 46 | 5 5 | 23 13 | 23 10 | 21 32 | 15 54 | 7 15 |
| M28 | 7s57 | 7n59 | 4s35 | 9s20 | 1s42 | 6s46 | 1s25 | 12s19 | 1s 5 | 16n 6 | 1n 9 | 22s18 | 0n31 | 22n39 | 0n 4 | 3s44 | 1s15 | 24n46 | 5n 5 | 23s13 | 23s10 | 21n30 | 15n54 | 7s14 |

Julian Day Number = 2340177.5, Delta T = 16.16 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'19, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'02, Lahiri = 19°36'03Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## MARCH 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 35 56 | 10♓41'29 | 10♍16 | 12♓ 8 | 17♓27 | 1♓19 | 19°R19 | 13♑28 | 14♊35 | 23♓30 | 1°R41 | 21°R23 | 20♐55 | 9♋35 | 9°R43 | T 1 |
| W 2 | 10 39 53 | 11°41'30 | 23° 4 | 14° 3 | 18°42 | 2° 7 | 19♌12 | 13°33 | 14°36 | 23°32 | 1♌40 | 21♐ 9 | 20°52 | 9°41 | 9♋42 | W 2 |
| T 3 | 10 43 49 | 12°41'30 | 6♎ 5 | 15°59 | 19°57 | 2°54 | 19° 6 | 13°37 | 14°36 | 23°35 | 1°39 | 20°57 | 20°49 | 9°48 | 9°41 | T 3 |
| F 4 | 10 47 46 | 13°41'28 | 19°17 | 17°56 | 21°11 | 3°41 | 18°59 | 13°42 | 14°37 | 23°37 | 1°38 | 20°46 | 20°45 | 9°55 | 9°40 | F 4 |
| S 5 | 10 51 42 | 14°41'25 | 2♏41 | 19°53 | 22°26 | 4°28 | 18°52 | 13°47 | 14°37 | 23°39 | 1°37 | 20°38 | 20°42 | 10° 1 | 9°39 | S 5 |
| S 6 | 10 55 39 | 15°41'20 | 16°14 | 21°51 | 23°41 | 5°16 | 18°46 | 13°51 | 14°38 | 23°41 | 1°36 | 20°33 | 20°39 | 10° 8 | 9°38 | S 6 |
| M 7 | 10 59 35 | 16°41'13 | 29°57 | 23°49 | 24°56 | 6° 3 | 18°40 | 13°56 | 14°39 | 23°44 | 1°35 | 20°30 | 20°36 | 10°15 | 9°38 | M 7 |
| T 8 | 11 3 32 | 17°41'04 | 13♐49 | 25°47 | 26°10 | 6°50 | 18°34 | 14° 0 | 14°40 | 23°46 | 1°34 | 20°30 | 20°33 | 10°21 | 9°37 | T 8 |
| W 9 | 11 7 29 | 18°40'54 | 27°51 | 27°44 | 27°25 | 7°37 | 18°28 | 14° 4 | 14°41 | 23°48 | 1°33 | 20°30 | 20°29 | 10°28 | 9°37 | W 9 |
| T 10 | 11 11 25 | 19°40'42 | 12♑ 3 | 29°41 | 28°40 | 8°25 | 18°22 | 14° 8 | 14°41 | 23°51 | 1°32 | 20°29 | 20°26 | 10°35 | 9°36 | T 10 |
| F 11 | 11 15 22 | 20°40'29 | 26°23 | 1♈37 | 29°55 | 9°12 | 18°16 | 14°13 | 14°42 | 23°53 | 1°31 | 20°26 | 20°23 | 10°41 | 9°36 | F 11 |
| S 12 | 11 19 18 | 21°40'13 | 10♒49 | 3°32 | 1♈ 9 | 9°59 | 18°10 | 14°17 | 14°43 | 23°55 | 1°31 | 20°20 | 20°20 | 10°48 | 9°36 | S 12 |
| S 13 | 11 23 15 | 22°39'56 | 25°15 | 5°25 | 2°24 | 10°46 | 18° 5 | 14°21 | 14°44 | 23°57 | 1°30 | 20°12 | 20°17 | 10°55 | 9°D36 | S 13 |
| M14 | 11 27 11 | 23°39'37 | 9♓37 | 7°16 | 3°38 | 11°33 | 17°59 | 14°24 | 14°46 | 24° 0 | 1°29 | 20° 1 | 20°14 | 11° 1 | 9°36 | M14 |
| T 15 | 11 31 8 | 24°39'16 | 23°47 | 9° 4 | 4°53 | 12°20 | 17°54 | 14°28 | 14°47 | 24° 2 | 1°28 | 19°48 | 20°10 | 11° 8 | 9°36 | T 15 |
| W16 | 11 35 4 | 25°38'53 | 7♈41 | 10°50 | 6° 8 | 13° 8 | 17°49 | 14°32 | 14°48 | 24° 4 | 1°27 | 19°36 | 20° 7 | 11°15 | 9°36 | W16 |
| T 17 | 11 39 1 | 26°38'28 | 21°14 | 12°32 | 7°22 | 13°55 | 17°44 | 14°36 | 14°49 | 24° 6 | 1°27 | 19°25 | 20° 4 | 11°21 | 9°37 | T 17 |
| F 18 | 11 42 58 | 27°38'01 | 4♉25 | 14°10 | 8°37 | 14°42 | 17°40 | 14°39 | 14°50 | 24° 9 | 1°26 | 19°16 | 20° 1 | 11°28 | 9°37 | F 18 |
| S 19 | 11 46 54 | 28°37'31 | 17°12 | 15°45 | 9°51 | 15°29 | 17°35 | 14°43 | 14°52 | 24°11 | 1°25 | 19°10 | 19°58 | 11°35 | 9°38 | S 19 |
| S 20 | 11 50 51 | 29°37'00 | 29°38 | 17°14 | 11° 5 | 16°16 | 17°31 | 14°46 | 14°53 | 24°13 | 1°25 | 19° 6 | 19°54 | 11°41 | 9°38 | S 20 |
| M21 | 11 54 47 | 0♈36'26 | 11♊48 | 18°38 | 12°20 | 17° 3 | 17°27 | 14°49 | 14°55 | 24°16 | 1°24 | 19° 5 | 19°51 | 11°48 | 9°39 | M21 |
| T 22 | 11 58 44 | 1°35'50 | 23°45 | 19°57 | 13°34 | 17°50 | 17°23 | 14°53 | 14°56 | 24°18 | 1°24 | 19°D 5 | 19°48 | 11°55 | 9°40 | T 22 |
| W23 | 12 2 40 | 2°35'11 | 5♋34 | 21°10 | 14°49 | 18°37 | 17°19 | 14°56 | 14°58 | 24°20 | 1°23 | 19°R 5 | 19°45 | 12° 1 | 9°41 | W23 |
| T 24 | 12 6 37 | 3°34'30 | 17°23 | 22°17 | 16° 3 | 19°24 | 17°15 | 14°59 | 14°59 | 24°22 | 1°23 | 19° 4 | 19°42 | 12° 8 | 9°42 | T 24 |
| F 25 | 12 10 33 | 4°33'47 | 29°15 | 23°17 | 17°17 | 20°11 | 17°12 | 15° 2 | 15° 1 | 24°25 | 1°22 | 19° 1 | 19°39 | 12°15 | 9°43 | F 25 |
| S 26 | 12 14 30 | 5°33'01 | 11♌16 | 24°11 | 18°32 | 20°57 | 17° 8 | 15° 5 | 15° 3 | 24°27 | 1°22 | 18°56 | 19°35 | 12°21 | 9°44 | S 26 |
| S 27 | 12 18 27 | 6°32'14 | 23°30 | 24°58 | 19°46 | 21°44 | 17° 5 | 15° 7 | 15° 4 | 24°29 | 1°21 | 18°48 | 19°32 | 12°28 | 9°45 | S 27 |
| M28 | 12 22 23 | 7°31'23 | 6♍ 0 | 25°38 | 21° 0 | 22°31 | 17° 2 | 15°10 | 15° 6 | 24°31 | 1°21 | 18°38 | 19°29 | 12°34 | 9°47 | M28 |
| T 29 | 12 26 20 | 8°30'31 | 18°47 | 26°11 | 22°14 | 23°18 | 16°59 | 15°13 | 15° 8 | 24°33 | 1°20 | 18°27 | 19°26 | 12°41 | 9°48 | T 29 |
| W30 | 12 30 16 | 9°29'37 | 1♎53 | 26°37 | 23°28 | 24° 5 | 16°57 | 15°15 | 15°10 | 24°36 | 1°20 | 18°15 | 19°23 | 12°48 | 9°50 | W30 |
| T 31 | 12 34 13 | 10♈28'40 | 15♎15 | 26♈55 | 24♈43 | 24♓51 | 16♌54 | 15♑18 | 15♊12 | 24♓38 | 1♌19 | 18♐ 4 | 19♐20 | 12♋54 | 9♋51 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s34 | 3n11 | 4s55 | 8s31 | 1s37 | 6s16 | 1s25 | 12s 2 | 1s 5 | 16n 8 | 1n 9 | 22s17 | 0n31 | 22n39 | 0n 4 | 3s43 | 1s15 | 24n47 | 5n 5 | 23s12 | 23s10 | 21n29 | 15n55 | 7s13 |
| W 2 | 7 11 | 1s50 | 5 0 | 7 41 | 1 31 | 5 46 | 1 24 | 11 45 | 1 5 | 16 11 | 1 9 | 22 17 | 0 31 | 22 39 | 0 4 | 3 43 | 1 15 | 24 47 | 5 5 | 23 11 | 23 10 | 21 28 | 15 56 | 7 13 |
| T 3 | 6 48 | 6 51 | 4 50 | 6 50 | 1 25 | 5 16 | 1 24 | 11 28 | 1 5 | 16 13 | 1 9 | 22 17 | 0 30 | 22 39 | 0 4 | 3 42 | 1 15 | 24 47 | 5 5 | 23 10 | 23 10 | 21 27 | 15 56 | 7 12 |
| F 4 | 6 25 | 11 38 | 4 25 | 5 58 | 1 18 | 4 46 | 1 23 | 11 10 | 1 5 | 16 15 | 1 9 | 22 16 | 0 30 | 22 40 | 0 4 | 3 41 | 1 15 | 24 47 | 5 5 | 23 9 | 23 9 | 21 25 | 15 57 | 7 12 |
| S 5 | 6 2 | 15 56 | 3 44 | 5 5 | 1 10 | 4 16 | 1 22 | 10 53 | 1 4 | 16 17 | 1 9 | 22 16 | 0 30 | 22 40 | 0 4 | 3 40 | 1 15 | 24 47 | 5 5 | 23 9 | 23 9 | 21 24 | 15 58 | 7 11 |
| S 6 | 5 39 | 19 26 | 2 51 | 4 11 | 1 2 | 3 46 | 1 21 | 10 36 | 1 4 | 16 19 | 1 9 | 22 15 | 0 30 | 22 40 | 0 4 | 3 39 | 1 15 | 24 48 | 5 5 | 23 8 | 23 9 | 21 23 | 15 58 | 7 11 |
| M 7 | 5 16 | 21 54 | 1 46 | 3 16 | 0 53 | 3 15 | 1 21 | 10 18 | 1 4 | 16 21 | 1 9 | 22 15 | 0 30 | 22 40 | 0 4 | 3 38 | 1 15 | 24 48 | 5 5 | 23 8 | 23 9 | 21 21 | 15 59 | 7 10 |
| T 8 | 4 52 | 23 5 | 0 35 | 2 21 | 0 44 | 2 45 | 1 20 | 10 0 | 1 4 | 16 23 | 1 9 | 22 14 | 0 30 | 22 40 | 0 4 | 3 37 | 1 15 | 24 48 | 5 5 | 23 8 | 23 8 | 21 20 | 15 59 | 7 9 |
| W 9 | 4 29 | 22 49 | 0n39 | 1 25 | 0 34 | 2 14 | 1 19 | 9 43 | 1 4 | 16 25 | 1 9 | 22 14 | 0 30 | 22 40 | 0 4 | 3 36 | 1 15 | 24 48 | 5 5 | 23 8 | 23 8 | 21 19 | 16 0 | 7 9 |
| T 10 | 4 6 | 21 5 | 1 51 | 0 29 | 0 23 | 1 43 | 1 18 | 9 25 | 1 4 | 16 26 | 1 9 | 22 14 | 0 30 | 22 40 | 0 4 | 3 35 | 1 15 | 24 48 | 5 5 | 23 8 | 23 8 | 21 17 | 16 1 | 7 8 |
| F 11 | 3 42 | 18 0 | 2 57 | 0n27 | 0 12 | 1 12 | 1 17 | 9 7 | 1 4 | 16 28 | 1 9 | 22 13 | 0 30 | 22 40 | 0 4 | 3 35 | 1 15 | 24 48 | 5 5 | 23 8 | 23 8 | 21 16 | 16 1 | 7 8 |
| S 12 | 3 19 | 13 49 | 3 53 | 1 23 | 0 1 | 0 42 | 1 16 | 8 49 | 1 3 | 16 30 | 1 9 | 22 13 | 0 30 | 22 40 | 0 4 | 3 34 | 1 15 | 24 49 | 5 5 | 23 8 | 23 8 | 21 14 | 16 2 | 7 7 |
| S 13 | 2 55 | 8 50 | 4 33 | 2 19 | 0n11 | 0 11 | 1 14 | 8 31 | 1 3 | 16 31 | 1 9 | 22 12 | 0 30 | 22 40 | 0 4 | 3 33 | 1 15 | 24 49 | 5 5 | 23 7 | 23 7 | 21 13 | 16 3 | 7 6 |
| M14 | 2 31 | 3 25 | 4 56 | 3 14 | 0 23 | 0n20 | 1 13 | 8 13 | 1 3 | 16 33 | 1 9 | 22 12 | 0 30 | 22 41 | 0 4 | 3 32 | 1 15 | 24 49 | 5 5 | 23 6 | 23 7 | 21 12 | 16 3 | 7 6 |
| T 15 | 2 8 | 2n 7 | 5 0 | 4 8 | 0 35 | 0 51 | 1 12 | 7 55 | 1 3 | 16 35 | 1 8 | 22 12 | 0 30 | 22 41 | 0 4 | 3 31 | 1 15 | 24 49 | 5 5 | 23 5 | 23 7 | 21 10 | 16 4 | 7 5 |
| W16 | 1 44 | 7 26 | 4 46 | 5 1 | 0 47 | 1 22 | 1 10 | 7 36 | 1 3 | 16 36 | 1 8 | 22 11 | 0 30 | 22 41 | 0 4 | 3 30 | 1 15 | 24 49 | 5 5 | 23 4 | 23 7 | 21 9 | 16 4 | 7 4 |
| T 17 | 1 20 | 12 15 | 4 16 | 5 53 | 1 0 | 1 52 | 1 9 | 7 18 | 1 3 | 16 38 | 1 8 | 22 11 | 0 30 | 22 41 | 0 4 | 3 29 | 1 15 | 24 49 | 5 5 | 23 3 | 23 6 | 21 8 | 16 5 | 7 4 |
| F 18 | 0 57 | 16 21 | 3 33 | 6 43 | 1 13 | 2 23 | 1 7 | 7 0 | 1 2 | 16 39 | 1 8 | 22 10 | 0 30 | 22 41 | 0 4 | 3 28 | 1 15 | 24 49 | 5 5 | 23 3 | 23 6 | 21 6 | 16 6 | 7 3 |
| S 19 | 0 33 | 19 33 | 2 40 | 7 31 | 1 25 | 2 54 | 1 6 | 6 41 | 1 2 | 16 40 | 1 8 | 22 10 | 0 30 | 22 41 | 0 4 | 3 27 | 1 15 | 24 49 | 5 5 | 23 2 | 23 6 | 21 5 | 16 6 | 7 3 |
| S 20 | 0 9 | 21 45 | 1 41 | 8 16 | 1 37 | 3 25 | 1 4 | 6 23 | 1 2 | 16 42 | 1 8 | 22 10 | 0 30 | 22 42 | 0 4 | 3 26 | 1 15 | 24 50 | 5 5 | 23 2 | 23 6 | 21 3 | 16 7 | 7 2 |
| M21 | 0n15 | 22 53 | 0 39 | 9 0 | 1 49 | 3 55 | 1 3 | 6 4 | 1 2 | 16 43 | 1 8 | 22 9 | 0 30 | 22 42 | 0 4 | 3 26 | 1 15 | 24 50 | 5 5 | 23 2 | 23 5 | 21 2 | 16 7 | 7 1 |
| T 22 | 0 38 | 22 55 | 0s25 | 9 41 | 2 1 | 4 26 | 1 1 | 5 46 | 1 2 | 16 44 | 1 8 | 22 9 | 0 30 | 22 42 | 0 4 | 3 25 | 1 15 | 24 50 | 5 5 | 23 2 | 23 5 | 21 1 | 16 8 | 7 1 |
| W23 | 1 2 | 21 55 | 1 26 | 10 18 | 2 12 | 4 56 | 0 59 | 5 27 | 1 1 | 16 45 | 1 8 | 22 9 | 0 30 | 22 42 | 0 4 | 3 24 | 1 15 | 24 50 | 5 5 | 23 2 | 23 5 | 20 59 | 16 8 | 7 0 |
| T 24 | 1 25 | 19 58 | 2 24 | 10 53 | 2 22 | 5 26 | 0 57 | 5 9 | 1 1 | 16 46 | 1 8 | 22 8 | 0 30 | 22 42 | 0 4 | 3 23 | 1 15 | 24 50 | 5 5 | 23 2 | 23 5 | 20 58 | 16 9 | 7 0 |
| F 25 | 1 49 | 17 8 | 3 16 | 11 25 | 2 32 | 5 57 | 0 56 | 4 50 | 1 1 | 16 47 | 1 8 | 22 8 | 0 30 | 22 42 | 0 4 | 3 22 | 1 15 | 24 50 | 5 4 | 23 1 | 23 4 | 20 56 | 16 9 | 6 59 |
| S 26 | 2 12 | 13 35 | 4 0 | 11 53 | 2 41 | 6 27 | 0 54 | 4 31 | 1 1 | 16 48 | 1 8 | 22 8 | 0 30 | 22 43 | 0 4 | 3 21 | 1 15 | 24 50 | 5 4 | 23 1 | 23 4 | 20 55 | 16 10 | 6 58 |
| S 27 | 2 36 | 9 24 | 4 34 | 12 18 | 2 50 | 6 57 | 0 52 | 4 12 | 1 0 | 16 49 | 1 8 | 22 8 | 0 30 | 22 43 | 0 4 | 3 20 | 1 15 | 24 50 | 5 4 | 23 0 | 23 4 | 20 54 | 16 11 | 6 58 |
| M28 | 2 59 | 4 45 | 4 55 | 12 40 | 2 57 | 7 26 | 0 50 | 3 54 | 1 0 | 16 50 | 1 8 | 22 7 | 0 30 | 22 43 | 0 4 | 3 19 | 1 15 | 24 50 | 5 4 | 23 0 | 23 4 | 20 52 | 16 11 | 6 57 |
| T 29 | 3 23 | 0s11 | 5 2 | 12 58 | 3 3 | 7 56 | 0 48 | 3 35 | 1 0 | 16 50 | 1 7 | 22 7 | 0 30 | 22 43 | 0 4 | 3 19 | 1 15 | 24 50 | 5 4 | 22 59 | 23 3 | 20 51 | 16 12 | 6 56 |
| W30 | 3 46 | 5 14 | 4 54 | 13 12 | 3 8 | 8 25 | 0 46 | 3 16 | 1 0 | 16 51 | 1 7 | 22 7 | 0 30 | 22 43 | 0 4 | 3 18 | 1 15 | 24 50 | 5 4 | 22 57 | 23 3 | 20 49 | 16 12 | 6 56 |
| T 31 | 4n 9 | 10s 9 | 4s29 | 13n22 | 3n11 | 8n55 | 0s44 | 2s57 | 0s59 | 16n52 | 1n 7 | 22s 7 | 0n30 | 22n44 | 0n 4 | 3s17 | 1s15 | 24n50 | 5n 4 | 22s56 | 23s 3 | 20n48 | 16n13 | 6s55 |

Julian Day Number = 2340205.5, Delta T = 16.13 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'06, Lahiri = 19°36'06Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## APRIL 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 12 38 9 | 11♈27'41 | 28♎52 | 27♈ 7 | 25♈57 | 25♓38 | 16°R52 | 15♏20 | 15♊14 | 24♓40 | 1°R19 | 17°R54 | 19♐16 | 13♋ 1 | 9♋53 | F 1 |
| S 2 | 12 42 6 | 12°26'41 | 12♏40 | 27°R12 | 27°11 | 26°25 | 16♌50 | 15°22 | 15°16 | 24°42 | 1♌19 | 17♐47 | 19°13 | 13° 8 | 9°55 | S 2 |
| S 3 | 12 46 2 | 13°25'39 | 26°36 | 27°10 | 28°25 | 27°11 | 16°48 | 15°24 | 15°18 | 24°44 | 1°19 | 17°43 | 19°10 | 13°14 | 9°57 | S 3 |
| M 4 | 12 49 59 | 14°24'34 | 10♐38 | 27° 1 | 29°39 | 27°58 | 16°46 | 15°27 | 15°20 | 24°47 | 1°18 | 17°41 | 19° 7 | 13°21 | 9°59 | M 4 |
| T 5 | 12 53 55 | 15°23'29 | 24°43 | 26°46 | 0♑53 | 28°45 | 16°45 | 15°28 | 15°22 | 24°49 | 1°18 | 17°D41 | 19° 4 | 13°28 | 10° 1 | T 5 |
| W 6 | 12 57 52 | 16°22'21 | 8♏50 | 26°26 | 2° 7 | 29°31 | 16°44 | 15°30 | 15°24 | 24°51 | 1°18 | 17°42 | 19° 0 | 13°34 | 10° 3 | W 6 |
| T 7 | 13 1 49 | 17°21'12 | 22°58 | 26° 0 | 3°21 | 0♈18 | 16°43 | 15°32 | 15°26 | 24°53 | 1°18 | 17°R42 | 18°57 | 13°41 | 10° 6 | T 7 |
| F 8 | 13 5 45 | 18°20'01 | 7♒ 5 | 25°30 | 4°35 | 1° 4 | 16°42 | 15°34 | 15°29 | 24°55 | 1°18 | 17°40 | 18°54 | 13°48 | 10° 8 | F 8 |
| S 9 | 13 9 42 | 19°18'48 | 21°10 | 24°55 | 5°49 | 1°51 | 16°41 | 15°35 | 15°31 | 24°57 | 1°17 | 17°37 | 18°51 | 13°54 | 10°10 | S 9 |
| S 10 | 13 13 38 | 20°17'33 | 5♓12 | 24°17 | 7° 3 | 2°37 | 16°40 | 15°37 | 15°33 | 24°59 | 1°17 | 17°30 | 18°48 | 14° 1 | 10°13 | S 10 |
| M11 | 13 17 35 | 21°16'17 | 19° 6 | 23°37 | 8°16 | 3°23 | 16°40 | 15°38 | 15°36 | 25° 2 | 1°17 | 17°22 | 18°45 | 14° 8 | 10°16 | M11 |
| T 12 | 13 21 31 | 22°14'59 | 2♈50 | 22°55 | 9°30 | 4°10 | 16°D40 | 15°40 | 15°38 | 25° 4 | 1°17 | 17°13 | 18°41 | 14°14 | 10°18 | T 12 |
| W13 | 13 25 28 | 23°13'39 | 16°20 | 22°12 | 10°44 | 4°56 | 16°40 | 15°41 | 15°40 | 25° 6 | 1°D17 | 17° 4 | 18°38 | 14°21 | 10°21 | W13 |
| T 14 | 13 29 24 | 24°12'17 | 29°34 | 21°28 | 11°58 | 5°42 | 16°40 | 15°42 | 15°43 | 25° 8 | 1°17 | 16°55 | 18°35 | 14°28 | 10°24 | T 14 |
| F 15 | 13 33 21 | 25°10'53 | 12♉30 | 20°46 | 13°12 | 6°29 | 16°40 | 15°43 | 15°45 | 25°10 | 1°17 | 16°49 | 18°32 | 14°34 | 10°27 | F 15 |
| S 16 | 13 37 18 | 26° 9'27 | 25° 8 | 20° 4 | 14°25 | 7°15 | 16°41 | 15°44 | 15°48 | 25°12 | 1°17 | 16°44 | 18°29 | 14°41 | 10°30 | S 16 |
| S 17 | 13 41 14 | 27° 7'59 | 7♊30 | 19°25 | 15°39 | 8° 1 | 16°42 | 15°44 | 15°51 | 25°14 | 1°17 | 16°42 | 18°26 | 14°48 | 10°33 | S 17 |
| M18 | 13 45 11 | 28° 6'30 | 19°37 | 18°49 | 16°53 | 8°47 | 16°43 | 15°45 | 15°53 | 25°16 | 1°17 | 16°D41 | 18°22 | 14°54 | 10°37 | M18 |
| T 19 | 13 49 7 | 29° 4'58 | 1♋34 | 18°16 | 18° 6 | 9°33 | 16°44 | 15°46 | 15°56 | 25°18 | 1°18 | 16°42 | 18°19 | 15° 1 | 10°40 | T 19 |
| W20 | 13 53 4 | 0♉ 3'23 | 13°25 | 17°46 | 19°20 | 10°19 | 16°45 | 15°46 | 15°59 | 25°20 | 1°18 | 16°43 | 18°16 | 15° 8 | 10°43 | W20 |
| T 21 | 13 57 0 | 1° 1'47 | 25°14 | 17°21 | 20°33 | 11° 5 | 16°47 | 15°47 | 16° 1 | 25°22 | 1°18 | 16°45 | 18°13 | 15°14 | 10°47 | T 21 |
| F 22 | 14 0 57 | 2° 0'09 | 7♌ 7 | 17° 0 | 21°47 | 11°51 | 16°48 | 15°47 | 16° 4 | 25°24 | 1°18 | 16°R45 | 18°10 | 15°21 | 10°50 | F 22 |
| S 23 | 14 4 53 | 2°58'28 | 19° 9 | 16°43 | 23° 0 | 12°37 | 16°50 | 15°47 | 16° 7 | 25°26 | 1°18 | 16°43 | 18° 6 | 15°28 | 10°54 | S 23 |
| S 24 | 14 8 50 | 3°56'46 | 1♍25 | 16°32 | 24°14 | 13°23 | 16°52 | 15°47 | 16°10 | 25°27 | 1°19 | 16°40 | 18° 3 | 15°34 | 10°58 | S 24 |
| M25 | 14 12 47 | 4°55'01 | 13°59 | 16°25 | 25°27 | 14° 9 | 16°54 | 15°R47 | 16°13 | 25°29 | 1°19 | 16°35 | 18° 0 | 15°41 | 11° 1 | M25 |
| T 26 | 14 16 43 | 5°53'14 | 26°53 | 16°D23 | 26°40 | 14°54 | 16°57 | 15°47 | 16°15 | 25°31 | 1°19 | 16°29 | 17°57 | 15°48 | 11° 5 | T 26 |
| W27 | 14 20 40 | 6°51'25 | 10♎ 9 | 16°26 | 27°54 | 15°40 | 16°59 | 15°47 | 16°18 | 25°33 | 1°20 | 16°22 | 17°54 | 15°54 | 11° 9 | W27 |
| T 28 | 14 24 36 | 7°49'35 | 23°47 | 16°34 | 29° 7 | 16°26 | 17° 2 | 15°47 | 16°21 | 25°35 | 1°20 | 16°16 | 17°51 | 16° 1 | 11°13 | T 28 |
| F 29 | 14 28 33 | 8°47'43 | 7♏44 | 16°46 | 0♊20 | 17°11 | 17° 5 | 15°46 | 16°24 | 25°37 | 1°20 | 16°11 | 17°47 | 16° 8 | 11°17 | F 29 |
| S 30 | 14 32 29 | 9♉45'49 | 21♏56 | 17♈ 3 | 1♊34 | 17♈57 | 17♌ 8 | 15♏46 | 16♊27 | 25♓38 | 1♌21 | 16♐ 7 | 17♐44 | 16♋14 | 11♋21 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4n32 | 14s39 | 3s49 | 13n28 | 3n14 | 9n24 | 0s42 | 2s38 | 0s59 | 16n52 | 1n 7 | 22s 6 | 0n30 | 22n44 | 0n 4 | 3s16 | 1s15 | 24n50 | 5n 4 | 22s56 | 23s 3 | 20n46 | 16n13 | 6s55 |
| S 2 | 4 56 | 18 26 | 2 55 | 13 31 | 3 15 | 9 52 | 0 39 | 2 20 | 0 59 | 16 53 | 1 7 | 22 6 | 0 30 | 22 44 | 0 4 | 3 15 | 1 15 | 24 50 | 5 4 | 22 55 | 23 2 | 20 45 | 16 14 | 6 54 |
| S 3 | 5 18 | 21 13 | 1 50 | 13 30 | 3 14 | 10 21 | 0 37 | 2 1 | 0 58 | 16 53 | 1 7 | 22 6 | 0 30 | 22 44 | 0 4 | 3 14 | 1 15 | 24 50 | 5 4 | 22 55 | 23 2 | 20 44 | 16 14 | 6 53 |
| M 4 | 5 41 | 22 42 | 0 38 | 13 25 | 3 12 | 10 49 | 0 35 | 1 42 | 0 58 | 16 54 | 1 7 | 22 6 | 0 30 | 22 45 | 0 4 | 3 13 | 1 15 | 24 50 | 5 4 | 22 54 | 23 2 | 20 42 | 16 14 | 6 53 |
| T 5 | 6 4 | 22 45 | 0n37 | 13 16 | 3 9 | 11 17 | 0 33 | 1 23 | 0 58 | 16 54 | 1 7 | 22 5 | 0 30 | 22 45 | 0 4 | 3 13 | 1 15 | 24 50 | 5 4 | 22 54 | 23 2 | 20 41 | 16 15 | 6 52 |
| W 6 | 6 27 | 21 21 | 1 51 | 13 4 | 3 4 | 11 45 | 0 30 | 1 4 | 0 58 | 16 54 | 1 7 | 22 5 | 0 29 | 22 45 | 0 4 | 3 12 | 1 15 | 24 50 | 5 4 | 22 54 | 23 1 | 20 39 | 16 15 | 6 52 |
| T 7 | 6 49 | 18 37 | 2 57 | 12 48 | 2 57 | 12 13 | 0 28 | 0 45 | 0 57 | 16 55 | 1 6 | 22 5 | 0 29 | 22 45 | 0 4 | 3 11 | 1 15 | 24 50 | 5 4 | 22 54 | 23 1 | 20 38 | 16 16 | 6 51 |
| F 8 | 7 12 | 14 47 | 3 52 | 12 30 | 2 49 | 12 40 | 0 26 | 0 27 | 0 57 | 16 55 | 1 6 | 22 5 | 0 29 | 22 46 | 0 4 | 3 10 | 1 15 | 24 50 | 5 4 | 22 54 | 23 1 | 20 36 | 16 16 | 6 50 |
| S 9 | 7 34 | 10 8 | 4 34 | 12 8 | 2 39 | 13 7 | 0 23 | 0 8 | 0 57 | 16 55 | 1 6 | 22 5 | 0 29 | 22 46 | 0 4 | 3 9 | 1 15 | 24 50 | 5 4 | 22 54 | 23 1 | 20 35 | 16 17 | 6 50 |
| S 10 | 7 57 | 5 0 | 4 58 | 11 44 | 2 28 | 13 34 | 0 21 | 0n11 | 0 56 | 16 55 | 1 6 | 22 5 | 0 29 | 22 46 | 0 4 | 3 8 | 1 15 | 24 50 | 5 4 | 22 53 | 23 0 | 20 33 | 16 17 | 6 49 |
| M11 | 8 19 | 0n21 | 5 5 | 11 17 | 2 16 | 14 0 | 0 18 | 0 30 | 0 56 | 16 55 | 1 6 | 22 4 | 0 29 | 22 46 | 0 4 | 3 8 | 1 15 | 24 50 | 5 3 | 22 53 | 23 0 | 20 32 | 16 17 | 6 49 |
| T 12 | 8 41 | 5 37 | 4 54 | 10 49 | 2 3 | 14 26 | 0 16 | 0 49 | 0 55 | 16 55 | 1 6 | 22 4 | 0 29 | 22 47 | 0 4 | 3 7 | 1 15 | 24 50 | 5 3 | 22 52 | 23 0 | 20 30 | 16 18 | 6 48 |
| W13 | 9 2 | 10 32 | 4 27 | 10 20 | 1 48 | 14 51 | 0 13 | 1 7 | 0 55 | 16 55 | 1 6 | 22 4 | 0 29 | 22 47 | 0 4 | 3 6 | 1 15 | 24 50 | 5 3 | 22 51 | 22 59 | 20 29 | 16 18 | 6 47 |
| T 14 | 9 24 | 14 51 | 3 46 | 9 49 | 1 33 | 15 17 | 0 11 | 1 26 | 0 55 | 16 55 | 1 6 | 22 4 | 0 29 | 22 47 | 0 4 | 3 5 | 1 15 | 24 50 | 5 3 | 22 50 | 22 59 | 20 27 | 16 18 | 6 47 |
| F 15 | 9 46 | 18 22 | 2 53 | 9 18 | 1 17 | 15 42 | 0 8 | 1 45 | 0 54 | 16 54 | 1 6 | 22 4 | 0 29 | 22 47 | 0 4 | 3 4 | 1 15 | 24 50 | 5 3 | 22 49 | 22 59 | 20 26 | 16 19 | 6 46 |
| S 16 | 10 7 | 20 55 | 1 53 | 8 48 | 1 0 | 16 6 | 0 6 | 2 3 | 0 54 | 16 54 | 1 5 | 22 4 | 0 29 | 22 48 | 0 4 | 3 4 | 1 15 | 24 50 | 5 3 | 22 49 | 22 59 | 20 24 | 16 19 | 6 46 |
| S 17 | 10 28 | 22 25 | 0 49 | 8 17 | 0 44 | 16 30 | 0 3 | 2 22 | 0 54 | 16 54 | 1 5 | 22 4 | 0 29 | 22 48 | 0 4 | 3 3 | 1 15 | 24 50 | 5 3 | 22 49 | 22 58 | 20 23 | 16 19 | 6 45 |
| M18 | 10 49 | 22 48 | 0s16 | 7 48 | 0 27 | 16 54 | 0 1 | 2 40 | 0 53 | 16 53 | 1 5 | 22 4 | 0 29 | 22 48 | 0 4 | 3 2 | 1 15 | 24 50 | 5 3 | 22 49 | 22 58 | 20 21 | 16 20 | 6 45 |
| T 19 | 11 10 | 22 9 | 1 20 | 7 19 | 0 10 | 17 17 | 0n 2 | 2 59 | 0 53 | 16 53 | 1 5 | 22 4 | 0 29 | 22 48 | 0 4 | 3 1 | 1 15 | 24 50 | 5 3 | 22 49 | 22 58 | 20 20 | 16 20 | 6 44 |
| W20 | 11 31 | 20 29 | 2 20 | 6 53 | 0s 7 | 17 40 | 0 5 | 3 17 | 0 52 | 16 52 | 1 5 | 22 4 | 0 29 | 22 49 | 0 4 | 3 1 | 1 15 | 24 49 | 5 3 | 22 49 | 22 58 | 20 18 | 16 20 | 6 44 |
| T 21 | 11 51 | 17 57 | 3 13 | 6 28 | 0 23 | 18 2 | 0 7 | 3 36 | 0 52 | 16 52 | 1 5 | 22 4 | 0 29 | 22 49 | 0 4 | 3 0 | 1 15 | 24 49 | 5 3 | 22 49 | 22 57 | 20 17 | 16 21 | 6 43 |
| F 22 | 12 11 | 14 40 | 3 59 | 6 5 | 0 39 | 18 24 | 0 10 | 3 54 | 0 52 | 16 51 | 1 5 | 22 4 | 0 29 | 22 49 | 0 5 | 2 59 | 1 15 | 24 49 | 5 3 | 22 49 | 22 57 | 20 15 | 16 21 | 6 42 |
| S 23 | 12 31 | 10 45 | 4 35 | 5 45 | 0 55 | 18 45 | 0 12 | 4 12 | 0 51 | 16 51 | 1 5 | 22 4 | 0 29 | 22 50 | 0 5 | 2 58 | 1 15 | 24 49 | 5 3 | 22 49 | 22 57 | 20 14 | 16 21 | 6 42 |
| S 24 | 12 51 | 6 20 | 4 59 | 5 27 | 1 9 | 19 6 | 0 15 | 4 31 | 0 51 | 16 50 | 1 4 | 22 4 | 0 29 | 22 50 | 0 5 | 2 58 | 1 15 | 24 49 | 5 3 | 22 49 | 22 56 | 20 12 | 16 21 | 6 41 |
| M25 | 13 11 | 1 33 | 5 10 | 5 11 | 1 23 | 19 27 | 0 18 | 4 49 | 0 50 | 16 49 | 1 4 | 22 4 | 0 29 | 22 50 | 0 5 | 2 57 | 1 15 | 24 49 | 5 3 | 22 48 | 22 56 | 20 11 | 16 22 | 6 41 |
| T 26 | 13 30 | 3s25 | 5 5 | 4 58 | 1 37 | 19 46 | 0 20 | 5 7 | 0 50 | 16 48 | 1 4 | 22 4 | 0 29 | 22 51 | 0 5 | 2 56 | 1 15 | 24 49 | 5 3 | 22 47 | 22 56 | 20 9 | 16 22 | 6 40 |
| W27 | 13 50 | 8 22 | 4 44 | 4 48 | 1 49 | 20 6 | 0 23 | 5 25 | 0 49 | 16 47 | 1 4 | 22 4 | 0 29 | 22 51 | 0 5 | 2 56 | 1 16 | 24 49 | 5 2 | 22 47 | 22 56 | 20 7 | 16 22 | 6 40 |
| T 28 | 14 9 | 13 4 | 4 6 | 4 40 | 2 1 | 20 25 | 0 26 | 5 43 | 0 49 | 16 46 | 1 4 | 22 4 | 0 29 | 22 51 | 0 5 | 2 55 | 1 16 | 24 48 | 5 2 | 22 46 | 22 55 | 20 6 | 16 22 | 6 39 |
| F 29 | 14 27 | 17 10 | 3 14 | 4 35 | 2 11 | 20 43 | 0 28 | 6 1 | 0 48 | 16 45 | 1 4 | 22 4 | 0 29 | 22 51 | 0 5 | 2 54 | 1 16 | 24 48 | 5 2 | 22 46 | 22 55 | 20 4 | 16 22 | 6 39 |
| S 30 | 14n46 | 20s20 | 2s 8 | 4n32 | 2s21 | 21n 1 | 0n31 | 6n19 | 0s48 | 16n44 | 1n 4 | 22s 4 | 0n29 | 22n52 | 0n 5 | 2s54 | 1s16 | 24n48 | 5n 2 | 22s45 | 22s55 | 20n 3 | 16n23 | 6s38 |

Julian Day Number = 2340236.5, Delta T = 16.09 sec
Ecliptic obliquity = 23°28'43, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'10, Lahiri = 19°36'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## MAY 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 14 36 26 | 10♉43'53 | 6♐19 | 17♈25 | 2♊47 | 18♈43 | 17♌11 | 15°R45 | 16♊30 | 25♓40 | 1♌21 | 16°R 5 | 17♐41 | 16♋21 | 11♋26 | S 1 |
| M 2 | 14 40 22 | 11°41'56 | 20°46 | 17°51 | 4° 0 | 19°28 | 17°15 | 15♏45 | 16°33 | 25°42 | 1°22 | 16°D 5 | 17°38 | 16°28 | 11°30 | M 2 |
| T 3 | 14 44 19 | 12°39'58 | 5♏14 | 18°21 | 5°13 | 20°13 | 17°18 | 15°44 | 16°36 | 25°43 | 1°22 | 16♐ 6 | 17°35 | 16°34 | 11°34 | T 3 |
| W 4 | 14 48 16 | 13°37'58 | 19°38 | 18°55 | 6°26 | 20°59 | 17°22 | 15°43 | 16°40 | 25°45 | 1°23 | 16° 7 | 17°31 | 16°41 | 11°39 | W 4 |
| T 5 | 14 52 12 | 14°35'57 | 3♒55 | 19°33 | 7°39 | 21°44 | 17°26 | 15°42 | 16°43 | 25°47 | 1°23 | 16° 8 | 17°28 | 16°48 | 11°43 | T 5 |
| F 6 | 14 56 9 | 15°33'54 | 18° 2 | 20°15 | 8°52 | 22°30 | 17°30 | 15°41 | 16°46 | 25°48 | 1°24 | 16°R 9 | 17°25 | 16°54 | 11°48 | F 6 |
| S 7 | 15 0 5 | 16°31'50 | 1♓58 | 21° 1 | 10° 5 | 23°15 | 17°34 | 15°40 | 16°49 | 25°50 | 1°24 | 16° 8 | 17°22 | 17° 1 | 11°52 | S 7 |
| S 8 | 15 4 2 | 17°29'45 | 15°43 | 21°50 | 11°18 | 24° 0 | 17°39 | 15°39 | 16°52 | 25°52 | 1°25 | 16° 6 | 17°19 | 17° 8 | 11°57 | S 8 |
| M 9 | 15 7 58 | 18°27'39 | 29°15 | 22°42 | 12°31 | 24°45 | 17°43 | 15°38 | 16°55 | 25°53 | 1°26 | 16° 2 | 17°16 | 17°14 | 12° 2 | M 9 |
| T 10 | 15 11 55 | 19°25'31 | 12♈34 | 23°38 | 13°44 | 25°30 | 17°48 | 15°36 | 16°59 | 25°55 | 1°26 | 15°58 | 17°12 | 17°21 | 12° 7 | T 10 |
| W11 | 15 15 51 | 20°23'22 | 25°39 | 24°37 | 14°57 | 26°15 | 17°53 | 15°35 | 17° 2 | 25°56 | 1°27 | 15°54 | 17° 9 | 17°28 | 12°12 | W11 |
| T 12 | 15 19 48 | 21°21'12 | 8♉30 | 25°39 | 16°10 | 27° 0 | 17°58 | 15°33 | 17° 5 | 25°58 | 1°28 | 15°51 | 17° 6 | 17°34 | 12°16 | T 12 |
| F 13 | 15 23 45 | 22°19'00 | 21° 7 | 26°44 | 17°23 | 27°45 | 18° 3 | 15°31 | 17° 8 | 25°59 | 1°29 | 15°48 | 17° 3 | 17°41 | 12°21 | F 13 |
| S 14 | 15 27 41 | 23°16'47 | 3♊31 | 27°52 | 18°35 | 28°30 | 18° 9 | 15°30 | 17°12 | 26° 1 | 1°29 | 15°46 | 17° 0 | 17°48 | 12°27 | S 14 |
| S 15 | 15 31 38 | 24°14'33 | 15°43 | 29° 2 | 19°48 | 29°15 | 18°14 | 15°28 | 17°15 | 26° 2 | 1°30 | 15°D46 | 16°57 | 17°54 | 12°32 | S 15 |
| M16 | 15 35 34 | 25°12'17 | 27°44 | 0♋16 | 21° 1 | 29°59 | 18°20 | 15°26 | 17°19 | 26° 3 | 1°31 | 15°46 | 16°53 | 18° 1 | 12°37 | M16 |
| T 17 | 15 39 31 | 26° 9'59 | 9♋38 | 1°32 | 22°14 | 0♋45 | 18°26 | 15°24 | 17°22 | 26° 5 | 1°32 | 15°47 | 16°50 | 18° 8 | 12°42 | T 17 |
| W18 | 15 43 27 | 27° 7'41 | 21°28 | 2°50 | 23°26 | 1°29 | 18°32 | 15°22 | 17°25 | 26° 6 | 1°33 | 15°49 | 16°47 | 18°14 | 12°47 | W18 |
| T 19 | 15 47 24 | 28° 5'20 | 3♌17 | 4°11 | 24°39 | 2°14 | 18°38 | 15°19 | 17°29 | 26° 7 | 1°34 | 15°50 | 16°44 | 18°21 | 12°53 | T 19 |
| F 20 | 15 51 20 | 29° 2'58 | 15°10 | 5°35 | 25°51 | 2°59 | 18°44 | 15°17 | 17°32 | 26° 9 | 1°35 | 15°51 | 16°41 | 18°28 | 12°58 | F 20 |
| S 21 | 15 55 17 | 0♊ 0'35 | 27°12 | 7° 1 | 27° 4 | 3°43 | 18°50 | 15°15 | 17°36 | 26°10 | 1°35 | 15°R52 | 16°37 | 18°34 | 13° 4 | S 21 |
| S 22 | 15 59 14 | 0°58'10 | 9♍27 | 8°30 | 28°16 | 4°28 | 18°57 | 15°12 | 17°39 | 26°11 | 1°36 | 15°52 | 16°34 | 18°41 | 13° 9 | S 22 |
| M23 | 16 3 10 | 1°55'44 | 21°59 | 10° 1 | 29°29 | 5°12 | 19° 3 | 15°10 | 17°42 | 26°12 | 1°37 | 15°51 | 16°31 | 18°48 | 13°15 | M23 |
| T 24 | 16 7 7 | 2°53'16 | 4♎53 | 11°35 | 0♋41 | 5°56 | 19°10 | 15° 7 | 17°46 | 26°13 | 1°38 | 15°50 | 16°28 | 18°54 | 13°20 | T 24 |
| W25 | 16 11 3 | 3°50'47 | 18°11 | 13°11 | 1°53 | 6°41 | 19°17 | 15° 4 | 17°49 | 26°15 | 1°39 | 15°48 | 16°25 | 19° 1 | 13°26 | W25 |
| T 26 | 16 15 0 | 4°48'16 | 1♏55 | 14°49 | 3° 6 | 7°25 | 19°24 | 15° 2 | 17°53 | 26°16 | 1°40 | 15°47 | 16°22 | 19° 8 | 13°32 | T 26 |
| F 27 | 16 18 56 | 5°45'45 | 16° 2 | 16°30 | 4°18 | 8° 9 | 19°31 | 14°59 | 17°56 | 26°17 | 1°41 | 15°45 | 16°18 | 19°14 | 13°37 | F 27 |
| S 28 | 16 22 53 | 6°43'12 | 0♐30 | 18°13 | 5°30 | 8°53 | 19°39 | 14°56 | 18° 0 | 26°18 | 1°43 | 15°45 | 16°15 | 19°21 | 13°43 | S 28 |
| S 29 | 16 26 49 | 7°40'39 | 15°13 | 19°59 | 6°42 | 9°37 | 19°46 | 14°53 | 18° 3 | 26°19 | 1°44 | 15°D44 | 16°12 | 19°28 | 13°49 | S 29 |
| M30 | 16 30 46 | 8°38'04 | 0♏ 5 | 21°47 | 7°54 | 10°21 | 19°54 | 14°50 | 18° 7 | 26°20 | 1°45 | 15°45 | 16° 9 | 19°34 | 13°55 | M30 |
| T 31 | 16 34 43 | 9♊35'29 | 14♏58 | 23♉37 | 9♋ 6 | 11♉ 5 | 20♌ 1 | 14♏47 | 18♊10 | 26♓21 | 1♌46 | 15♐45 | 16♐ 6 | 19♋41 | 14♋ 1 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ☊ | ☊ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 15n 4 | 22s16 | 0s53 | 4n32 | 2s30 | 21n18 | 0n33 | 6n37 | 0s47 | 16n43 | 1n 4 | 22s 4 | 0n29 | 22n52 | 0n 5 | 2s53 | 1s16 | 24n48 | 5n 2 | 22s45 | 22s54 | 20n 1 | 16n23 | 6s38 |
| M 2 | 15 22 | 22 44 | 0n26 | 4 34 | 2 39 | 21 34 | 0 36 | 6 54 | 0 47 | 16 42 | 1 4 | 22 4 | 0 29 | 22 52 | 0 5 | 2 52 | 1 16 | 24 48 | 5 2 | 22 45 | 22 54 | 20 0 | 16 23 | 6 37 |
| T 3 | 15 40 | 21 40 | 1 43 | 4 39 | 2 46 | 21 50 | 0 39 | 7 12 | 0 47 | 16 41 | 1 3 | 22 5 | 0 29 | 22 53 | 0 5 | 2 52 | 1 16 | 24 48 | 5 2 | 22 45 | 22 54 | 19 58 | 16 23 | 6 37 |
| W 4 | 15 57 | 19 11 | 2 53 | 4 46 | 2 52 | 22 6 | 0 41 | 7 29 | 0 46 | 16 40 | 1 3 | 22 5 | 0 29 | 22 53 | 0 5 | 2 51 | 1 16 | 24 47 | 5 2 | 22 45 | 22 54 | 19 57 | 16 23 | 6 36 |
| T 5 | 16 15 | 15 33 | 3 52 | 4 55 | 2 58 | 22 20 | 0 44 | 7 47 | 0 46 | 16 38 | 1 3 | 22 5 | 0 29 | 22 53 | 0 5 | 2 50 | 1 16 | 24 47 | 5 2 | 22 45 | 22 53 | 19 55 | 16 23 | 6 36 |
| F 6 | 16 32 | 11 4 | 4 37 | 5 6 | 3 3 | 22 35 | 0 46 | 8 4 | 0 45 | 16 37 | 1 3 | 22 5 | 0 29 | 22 54 | 0 5 | 2 50 | 1 16 | 24 47 | 5 2 | 22 45 | 22 53 | 19 53 | 16 23 | 6 35 |
| S 7 | 16 48 | 6 4 | 5 4 | 5 19 | 3 7 | 22 48 | 0 49 | 8 21 | 0 45 | 16 35 | 1 3 | 22 5 | 0 28 | 22 54 | 0 5 | 2 49 | 1 16 | 24 47 | 5 2 | 22 45 | 22 53 | 19 52 | 16 23 | 6 35 |
| S 8 | 17 5 | 0 50 | 5 13 | 5 35 | 3 10 | 23 1 | 0 51 | 8 39 | 0 44 | 16 34 | 1 3 | 22 5 | 0 28 | 22 54 | 0 5 | 2 49 | 1 16 | 24 47 | 5 2 | 22 45 | 22 52 | 19 50 | 16 23 | 6 35 |
| M 9 | 17 21 | 4n22 | 5 5 | 5 52 | 3 13 | 23 13 | 0 54 | 8 56 | 0 44 | 16 32 | 1 3 | 22 5 | 0 28 | 22 55 | 0 5 | 2 48 | 1 16 | 24 46 | 5 2 | 22 45 | 22 52 | 19 49 | 16 23 | 6 34 |
| T 10 | 17 37 | 9 16 | 4 40 | 6 11 | 3 14 | 23 25 | 0 56 | 9 13 | 0 43 | 16 31 | 1 3 | 22 6 | 0 28 | 22 55 | 0 5 | 2 47 | 1 16 | 24 46 | 5 2 | 22 44 | 22 52 | 19 47 | 16 23 | 6 34 |
| W11 | 17 52 | 13 40 | 4 1 | 6 31 | 3 15 | 23 36 | 0 58 | 9 29 | 0 42 | 16 29 | 1 2 | 22 6 | 0 28 | 22 55 | 0 5 | 2 47 | 1 16 | 24 46 | 5 2 | 22 44 | 22 51 | 19 45 | 16 23 | 6 33 |
| T 12 | 18 8 | 17 22 | 3 11 | 6 54 | 3 16 | 23 46 | 1 1 | 9 46 | 0 42 | 16 28 | 1 2 | 22 6 | 0 28 | 22 56 | 0 5 | 2 46 | 1 16 | 24 46 | 5 2 | 22 43 | 22 51 | 19 44 | 16 23 | 6 33 |
| F 13 | 18 23 | 20 11 | 2 12 | 7 17 | 3 15 | 23 56 | 1 3 | 10 3 | 0 41 | 16 26 | 1 2 | 22 6 | 0 28 | 22 56 | 0 5 | 2 46 | 1 16 | 24 46 | 5 1 | 22 43 | 22 51 | 19 42 | 16 23 | 6 32 |
| S 14 | 18 37 | 21 59 | 1 7 | 7 43 | 3 14 | 24 4 | 1 5 | 10 19 | 0 41 | 16 24 | 1 2 | 22 7 | 0 28 | 22 56 | 0 5 | 2 45 | 1 16 | 24 45 | 5 1 | 22 43 | 22 50 | 19 41 | 16 23 | 6 32 |
| S 15 | 18 52 | 22 43 | 0 0 | 8 9 | 3 12 | 24 13 | 1 8 | 10 36 | 0 40 | 16 22 | 1 2 | 22 7 | 0 28 | 22 57 | 0 5 | 2 45 | 1 16 | 24 45 | 5 1 | 22 43 | 22 50 | 19 39 | 16 23 | 6 32 |
| M16 | 19 6 | 22 22 | 1s 6 | 8 37 | 3 10 | 24 20 | 1 10 | 10 52 | 0 40 | 16 20 | 1 2 | 22 7 | 0 28 | 22 57 | 0 5 | 2 44 | 1 16 | 24 45 | 5 1 | 22 43 | 22 50 | 19 37 | 16 23 | 6 31 |
| T 17 | 19 20 | 21 0 | 2 8 | 9 6 | 3 7 | 24 27 | 1 12 | 11 8 | 0 39 | 16 19 | 1 2 | 22 7 | 0 28 | 22 57 | 0 5 | 2 44 | 1 16 | 24 45 | 5 1 | 22 43 | 22 50 | 19 36 | 16 23 | 6 31 |
| W18 | 19 33 | 18 43 | 3 5 | 9 37 | 3 3 | 24 33 | 1 14 | 11 24 | 0 39 | 16 17 | 1 2 | 22 8 | 0 28 | 22 58 | 0 5 | 2 43 | 1 16 | 24 44 | 5 1 | 22 43 | 22 49 | 19 34 | 16 23 | 6 30 |
| T 19 | 19 46 | 15 40 | 3 53 | 10 8 | 2 59 | 24 38 | 1 16 | 11 40 | 0 38 | 16 15 | 1 2 | 22 8 | 0 28 | 22 58 | 0 5 | 2 43 | 1 16 | 24 44 | 5 1 | 22 43 | 22 49 | 19 32 | 16 23 | 6 30 |
| F 20 | 19 59 | 11 58 | 4 32 | 10 40 | 2 54 | 24 43 | 1 18 | 11 56 | 0 38 | 16 13 | 1 1 | 22 8 | 0 28 | 22 58 | 0 5 | 2 42 | 1 16 | 24 44 | 5 1 | 22 44 | 22 49 | 19 31 | 16 23 | 6 30 |
| S 21 | 20 11 | 7 46 | 5 0 | 11 14 | 2 48 | 24 47 | 1 20 | 12 12 | 0 37 | 16 10 | 1 1 | 22 9 | 0 28 | 22 59 | 0 5 | 2 42 | 1 16 | 24 44 | 5 1 | 22 44 | 22 48 | 19 29 | 16 23 | 6 29 |
| S 22 | 20 23 | 3 11 | 5 15 | 11 48 | 2 42 | 24 50 | 1 22 | 12 27 | 0 36 | 16 8 | 1 1 | 22 9 | 0 28 | 22 59 | 0 5 | 2 41 | 1 17 | 24 43 | 5 1 | 22 44 | 22 48 | 19 28 | 16 23 | 6 29 |
| M23 | 20 35 | 1s38 | 5 15 | 12 23 | 2 36 | 24 53 | 1 24 | 12 43 | 0 36 | 16 6 | 1 1 | 22 9 | 0 28 | 22 59 | 0 5 | 2 41 | 1 17 | 24 43 | 5 1 | 22 43 | 22 48 | 19 26 | 16 22 | 6 29 |
| T 24 | 20 46 | 6 31 | 4 59 | 12 58 | 2 29 | 24 55 | 1 26 | 12 58 | 0 35 | 16 4 | 1 1 | 22 10 | 0 28 | 23 0 | 0 5 | 2 41 | 1 17 | 24 43 | 5 1 | 22 43 | 22 47 | 19 24 | 16 22 | 6 28 |
| W25 | 20 57 | 11 16 | 4 28 | 13 35 | 2 21 | 24 56 | 1 28 | 13 13 | 0 35 | 16 2 | 1 1 | 22 10 | 0 28 | 23 0 | 0 5 | 2 40 | 1 17 | 24 42 | 5 1 | 22 43 | 22 47 | 19 23 | 16 22 | 6 28 |
| T 26 | 21 8 | 15 35 | 3 40 | 14 11 | 2 13 | 24 56 | 1 30 | 13 28 | 0 34 | 15 59 | 1 1 | 22 10 | 0 28 | 23 0 | 0 5 | 2 40 | 1 17 | 24 42 | 5 1 | 22 43 | 22 47 | 19 21 | 16 22 | 6 28 |
| F 27 | 21 18 | 19 10 | 2 37 | 14 48 | 2 5 | 24 56 | 1 32 | 13 43 | 0 33 | 15 57 | 1 1 | 22 11 | 0 28 | 23 1 | 0 5 | 2 39 | 1 17 | 24 42 | 5 1 | 22 43 | 22 46 | 19 19 | 16 21 | 6 27 |
| S 28 | 21 28 | 21 39 | 1 24 | 15 26 | 1 56 | 24 55 | 1 33 | 13 58 | 0 33 | 15 55 | 1 1 | 22 11 | 0 28 | 23 1 | 0 5 | 2 39 | 1 17 | 24 42 | 5 1 | 22 43 | 22 46 | 19 18 | 16 21 | 6 27 |
| S 29 | 21 38 | 22 42 | 0 3 | 16 3 | 1 47 | 24 53 | 1 35 | 14 12 | 0 32 | 15 52 | 1 1 | 22 11 | 0 27 | 23 1 | 0 5 | 2 39 | 1 17 | 24 41 | 5 1 | 22 43 | 22 46 | 19 16 | 16 21 | 6 27 |
| M30 | 21 47 | 22 10 | 1n19 | 16 41 | 1 37 | 24 51 | 1 36 | 14 27 | 0 32 | 15 50 | 1 0 | 22 12 | 0 27 | 23 2 | 0 5 | 2 38 | 1 17 | 24 41 | 5 1 | 22 43 | 22 45 | 19 14 | 16 21 | 6 26 |
| T 31 | 21n56 | 20s 4 | 2n35 | 17n18 | 1s27 | 24n47 | 1n38 | 14n41 | 0s31 | 15n47 | 1n 0 | 22s12 | 0n27 | 23n 2 | 0n 5 | 2s38 | 1s17 | 24n41 | 5n 1 | 22s43 | 22s45 | 19n13 | 16n20 | 6s26 |

Julian Day Number = 2340266.5, Delta T = 16.06 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'14, Lahiri = 19°36'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## JUNE 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 16 38 39 | 10♊32'52 | 29♉44 | 25♉30 | 10♋19 | 11♉49 | 20♌ 9 | 14°R43 | 18♊14 | 26♓22 | 1♌47 | 15♐46 | 16♐ 3 | 19♋48 | 14♋ 7 | W 1 |
| T 2 | 16 42 36 | 11°30'16 | 14♒18 | 27°25 | 11°30 | 12°33 | 20°17 | 14♉40 | 18°18 | 26°23 | 1°48 | 15°46 | 15°59 | 19°54 | 14°13 | T 2 |
| F 3 | 16 46 32 | 12°27'38 | 28°36 | 29°22 | 12°42 | 13°17 | 20°25 | 14°37 | 18°21 | 26°23 | 1°49 | 15°46 | 15°56 | 20° 1 | 14°19 | F 3 |
| S 4 | 16 50 29 | 13°25'00 | 12♓34 | 1♊22 | 13°54 | 14° 1 | 20°33 | 14°33 | 18°25 | 26°24 | 1°51 | 15°R46 | 15°53 | 20° 8 | 14°25 | S 4 |
| S 5 | 16 54 25 | 14°22'21 | 26°13 | 3°23 | 15° 6 | 14°44 | 20°42 | 14°30 | 18°28 | 26°25 | 1°52 | 15°46 | 15°50 | 20°14 | 14°31 | S 5 |
| M 6 | 16 58 22 | 15°19'42 | 9♈32 | 5°27 | 16°18 | 15°28 | 20°50 | 14°26 | 18°32 | 26°26 | 1°53 | 15°D46 | 15°47 | 20°21 | 14°37 | M 6 |
| T 7 | 17 2 18 | 16°17'03 | 22°34 | 7°32 | 17°30 | 16°12 | 20°59 | 14°23 | 18°35 | 26°27 | 1°54 | 15°46 | 15°43 | 20°28 | 14°43 | T 7 |
| W 8 | 17 6 15 | 17°14'23 | 5♉20 | 9°39 | 18°41 | 16°55 | 21° 7 | 14°19 | 18°39 | 26°27 | 1°56 | 15°46 | 15°40 | 20°34 | 14°49 | W 8 |
| T 9 | 17 10 12 | 18°11'42 | 17°51 | 11°47 | 19°53 | 17°39 | 21°16 | 14°16 | 18°43 | 26°28 | 1°57 | 15°47 | 15°37 | 20°41 | 14°56 | T 9 |
| F 10 | 17 14 8 | 19° 9'01 | 0♊11 | 13°56 | 21° 5 | 18°22 | 21°25 | 14°12 | 18°46 | 26°29 | 1°58 | 15°47 | 15°34 | 20°48 | 15° 2 | F 10 |
| S 11 | 17 18 5 | 20° 6'20 | 12°20 | 16° 7 | 22°16 | 19° 5 | 21°34 | 14° 8 | 18°50 | 26°29 | 2° 0 | 15°R47 | 15°31 | 20°54 | 15° 8 | S 11 |
| S 12 | 17 22 1 | 21° 3'38 | 24°21 | 18°18 | 23°28 | 19°49 | 21°43 | 14° 4 | 18°53 | 26°30 | 2° 1 | 15°47 | 15°28 | 21° 1 | 15°15 | S 12 |
| M13 | 17 25 58 | 22° 0'55 | 6♋16 | 20°30 | 24°39 | 20°32 | 21°52 | 14° 0 | 18°57 | 26°30 | 2° 2 | 15°47 | 15°24 | 21° 8 | 15°21 | M13 |
| T 14 | 17 29 54 | 22°58'12 | 18° 6 | 22°42 | 25°51 | 21°15 | 22° 1 | 13°56 | 19° 0 | 26°31 | 2° 4 | 15°46 | 15°21 | 21°14 | 15°27 | T 14 |
| W15 | 17 33 51 | 23°55'28 | 29°55 | 24°53 | 27° 2 | 21°58 | 22°11 | 13°52 | 19° 4 | 26°31 | 2° 5 | 15°45 | 15°18 | 21°21 | 15°34 | W15 |
| T 16 | 17 37 47 | 24°52'44 | 11♌45 | 27° 5 | 28°13 | 22°41 | 22°20 | 13°48 | 19° 7 | 26°32 | 2° 7 | 15°44 | 15°15 | 21°28 | 15°40 | T 16 |
| F 17 | 17 41 44 | 25°49'59 | 23°39 | 29°15 | 29°25 | 23°24 | 22°30 | 13°44 | 19°11 | 26°32 | 2° 8 | 15°42 | 15°12 | 21°34 | 15°47 | F 17 |
| S 18 | 17 45 41 | 26°47'13 | 5♍41 | 1♋25 | 0♌36 | 24° 7 | 22°39 | 13°40 | 19°15 | 26°33 | 2°10 | 15°41 | 15° 9 | 21°41 | 15°53 | S 18 |
| S 19 | 17 49 37 | 27°44'27 | 17°54 | 3°34 | 1°47 | 24°50 | 22°49 | 13°36 | 19°18 | 26°33 | 2°11 | 15°41 | 15° 5 | 21°48 | 16° 0 | S 19 |
| M20 | 17 53 34 | 28°41'40 | 0♎24 | 5°41 | 2°58 | 25°33 | 22°59 | 13°32 | 19°22 | 26°33 | 2°12 | 15°D40 | 15° 2 | 21°54 | 16° 7 | M20 |
| T 21 | 17 57 30 | 29°38'52 | 13°14 | 7°47 | 4° 9 | 26°15 | 23° 9 | 13°28 | 19°25 | 26°34 | 2°14 | 15°41 | 14°59 | 22° 1 | 16°13 | T 21 |
| W22 | 18 1 27 | 0♋36'04 | 26°27 | 9°51 | 5°20 | 26°58 | 23°19 | 13°23 | 19°29 | 26°34 | 2°15 | 15°42 | 14°56 | 22° 8 | 16°20 | W22 |
| T 23 | 18 5 23 | 1°33'16 | 10♏ 6 | 11°54 | 6°31 | 27°41 | 23°29 | 13°19 | 19°32 | 26°34 | 2°17 | 15°43 | 14°53 | 22°14 | 16°26 | T 23 |
| F 24 | 18 9 20 | 2°30'27 | 24°12 | 13°55 | 7°42 | 28°23 | 23°39 | 13°15 | 19°36 | 26°34 | 2°19 | 15°44 | 14°49 | 22°21 | 16°33 | F 24 |
| S 25 | 18 13 16 | 3°27'38 | 8♐43 | 15°54 | 8°52 | 29° 6 | 23°50 | 13°10 | 19°39 | 26°34 | 2°20 | 15°R45 | 14°46 | 22°28 | 16°40 | S 25 |
| S 26 | 18 17 13 | 4°24'48 | 23°35 | 17°51 | 10° 3 | 29°48 | 24° 0 | 13° 6 | 19°43 | 26°34 | 2°22 | 15°45 | 14°43 | 22°34 | 16°46 | S 26 |
| M27 | 18 21 10 | 5°21'58 | 8♑41 | 19°46 | 11°14 | 0♊30 | 24°10 | 13° 2 | 19°46 | 26°35 | 2°23 | 15°44 | 14°40 | 22°41 | 16°53 | M27 |
| T 28 | 18 25 6 | 6°19'09 | 23°52 | 21°39 | 12°24 | 1°13 | 24°21 | 12°57 | 19°50 | 26°35 | 2°25 | 15°42 | 14°37 | 22°48 | 17° 0 | T 28 |
| W29 | 18 29 3 | 7°16'19 | 8♒58 | 23°30 | 13°35 | 1°55 | 24°32 | 12°53 | 19°53 | 26°R35 | 2°26 | 15°39 | 14°34 | 22°54 | 17° 7 | W29 |
| T 30 | 18 32 59 | 8♋13'29 | 23♒51 | 25♋19 | 14♌45 | 2♊37 | 24♌42 | 12♉49 | 19♊57 | 26♓35 | 2♌28 | 15♐36 | 14♐30 | 23♋ 1 | 17♋13 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 22n 4 | 16s38 | 3n41 | 17n56 | 1s17 | 24n44 | 1n39 | 14n55 | 0s30 | 15n44 | 1n 0 | 22s13 | 0n27 | 23n 2 | 0n 5 | 2s38 | 1s17 | 24n40 | 5n 1 | 22s43 | 22s45 | 19n11 | 16n20 | 6s26 | W 1 |
| T 2 | 22 12 | 12 14 | 4 31 | 18 32 | 1 6 | 24 39 | 1 41 | 15 9 | 0 30 | 15 42 | 1 0 | 22 13 | 0 27 | 23 2 | 0 5 | 2 37 | 1 17 | 24 40 | 5 1 | 22 43 | 22 44 | 19 9 | 16 20 | 6 25 | T 2 |
| F 3 | 22 20 | 7 14 | 5 3 | 19 9 | 0 55 | 24 34 | 1 42 | 15 23 | 0 29 | 15 39 | 1 0 | 22 14 | 0 27 | 23 3 | 0 5 | 2 37 | 1 17 | 24 40 | 5 1 | 22 43 | 22 44 | 19 8 | 16 19 | 6 25 | F 3 |
| S 4 | 22 27 | 1 58 | 5 17 | 19 44 | 0 45 | 24 28 | 1 43 | 15 37 | 0 29 | 15 37 | 1 0 | 22 14 | 0 27 | 23 3 | 0 5 | 2 37 | 1 17 | 24 40 | 5 1 | 22 43 | 22 44 | 19 6 | 16 19 | 6 25 | S 4 |
| S 5 | 22 34 | 3n16 | 5 12 | 20 19 | 0 34 | 24 21 | 1 44 | 15 50 | 0 28 | 15 34 | 1 0 | 22 14 | 0 27 | 23 3 | 0 5 | 2 36 | 1 17 | 24 39 | 5 0 | 22 43 | 22 43 | 19 4 | 16 19 | 6 25 | S 5 |
| M 6 | 22 40 | 8 14 | 4 51 | 20 52 | 0 23 | 24 13 | 1 45 | 16 4 | 0 27 | 15 31 | 1 0 | 22 15 | 0 27 | 23 4 | 0 5 | 2 36 | 1 17 | 24 39 | 5 0 | 22 43 | 22 43 | 19 2 | 16 18 | 6 24 | M 6 |
| T 7 | 22 46 | 12 44 | 4 15 | 21 25 | 0 12 | 24 5 | 1 46 | 16 17 | 0 27 | 15 28 | 1 0 | 22 15 | 0 27 | 23 4 | 0 5 | 2 36 | 1 17 | 24 39 | 5 0 | 22 43 | 22 43 | 19 1 | 16 18 | 6 24 | T 7 |
| W 8 | 22 52 | 16 33 | 3 26 | 21 55 | 0 1 | 23 57 | 1 47 | 16 30 | 0 26 | 15 25 | 1 0 | 22 16 | 0 27 | 23 4 | 0 5 | 2 36 | 1 17 | 24 38 | 5 0 | 22 43 | 22 42 | 18 59 | 16 17 | 6 24 | W 8 |
| T 9 | 22 57 | 19 34 | 2 29 | 22 24 | 0n10 | 23 47 | 1 48 | 16 43 | 0 25 | 15 22 | 1 0 | 22 16 | 0 27 | 23 5 | 0 5 | 2 35 | 1 17 | 24 38 | 5 0 | 22 43 | 22 42 | 18 57 | 16 17 | 6 24 | T 9 |
| F 10 | 23 2 | 21 37 | 1 26 | 22 51 | 0 21 | 23 37 | 1 49 | 16 56 | 0 25 | 15 20 | 0 59 | 22 17 | 0 27 | 23 5 | 0 5 | 2 35 | 1 17 | 24 38 | 5 0 | 22 43 | 22 42 | 18 56 | 16 17 | 6 23 | F 10 |
| S 11 | 23 7 | 22 38 | 0 19 | 23 16 | 0 31 | 23 26 | 1 50 | 17 8 | 0 24 | 15 17 | 0 59 | 22 17 | 0 27 | 23 5 | 0 5 | 2 35 | 1 18 | 24 37 | 5 0 | 22 43 | 22 41 | 18 54 | 16 16 | 6 23 | S 11 |
| S 12 | 23 11 | 22 34 | 0s47 | 23 38 | 0 41 | 23 15 | 1 50 | 17 21 | 0 23 | 15 14 | 0 59 | 22 18 | 0 27 | 23 6 | 0 5 | 2 35 | 1 18 | 24 37 | 5 0 | 22 43 | 22 41 | 18 52 | 16 16 | 6 23 | S 12 |
| M13 | 23 14 | 21 29 | 1 51 | 23 58 | 0 50 | 23 3 | 1 51 | 17 33 | 0 23 | 15 10 | 0 59 | 22 18 | 0 27 | 23 6 | 0 5 | 2 35 | 1 18 | 24 37 | 5 0 | 22 43 | 22 41 | 18 51 | 16 15 | 6 23 | M13 |
| T 14 | 23 17 | 19 27 | 2 50 | 24 16 | 0 59 | 22 50 | 1 51 | 17 45 | 0 22 | 15 7 | 0 59 | 22 19 | 0 26 | 23 6 | 0 5 | 2 35 | 1 18 | 24 36 | 5 0 | 22 43 | 22 40 | 18 49 | 16 15 | 6 23 | T 14 |
| W15 | 23 20 | 16 36 | 3 41 | 24 30 | 1 7 | 22 37 | 1 52 | 17 57 | 0 21 | 15 4 | 0 59 | 22 19 | 0 26 | 23 7 | 0 5 | 2 34 | 1 18 | 24 36 | 5 0 | 22 43 | 22 40 | 18 47 | 16 14 | 6 22 | W15 |
| T 16 | 23 23 | 13 5 | 4 23 | 24 42 | 1 15 | 22 23 | 1 52 | 18 8 | 0 21 | 15 1 | 0 59 | 22 19 | 0 26 | 23 7 | 0 5 | 2 34 | 1 18 | 24 36 | 5 0 | 22 43 | 22 40 | 18 45 | 16 14 | 6 22 | T 16 |
| F 17 | 23 25 | 9 2 | 4 54 | 24 51 | 1 22 | 22 8 | 1 52 | 18 20 | 0 20 | 14 58 | 0 59 | 22 20 | 0 26 | 23 7 | 0 5 | 2 34 | 1 18 | 24 35 | 5 0 | 22 43 | 22 39 | 18 44 | 16 13 | 6 22 | F 17 |
| S 18 | 23 26 | 4 36 | 5 12 | 24 57 | 1 29 | 21 53 | 1 52 | 18 31 | 0 19 | 14 55 | 0 59 | 22 20 | 0 26 | 23 7 | 0 5 | 2 34 | 1 18 | 24 35 | 5 0 | 22 42 | 22 39 | 18 42 | 16 12 | 6 22 | S 18 |
| S 19 | 23 28 | 0s 4 | 5 16 | 25 0 | 1 35 | 21 37 | 1 52 | 18 42 | 0 19 | 14 51 | 0 59 | 22 21 | 0 26 | 23 8 | 0 5 | 2 34 | 1 18 | 24 35 | 5 0 | 22 42 | 22 39 | 18 40 | 16 12 | 6 22 | S 19 |
| M20 | 23 28 | 4 51 | 5 6 | 25 1 | 1 40 | 21 21 | 1 52 | 18 53 | 0 18 | 14 48 | 0 59 | 22 21 | 0 26 | 23 8 | 0 5 | 2 34 | 1 18 | 24 34 | 5 0 | 22 42 | 22 38 | 18 38 | 16 11 | 6 22 | M20 |
| T 21 | 23 29 | 9 32 | 4 41 | 24 59 | 1 44 | 21 4 | 1 52 | 19 4 | 0 17 | 14 45 | 0 59 | 22 22 | 0 26 | 23 8 | 0 5 | 2 34 | 1 18 | 24 34 | 5 0 | 22 42 | 22 38 | 18 37 | 16 11 | 6 22 | T 21 |
| W22 | 23 29 | 13 57 | 4 0 | 24 54 | 1 48 | 20 47 | 1 52 | 19 14 | 0 17 | 14 41 | 0 59 | 22 22 | 0 26 | 23 9 | 0 5 | 2 34 | 1 18 | 24 34 | 5 0 | 22 43 | 22 37 | 18 35 | 16 10 | 6 21 | W22 |
| T 23 | 23 28 | 17 47 | 3 5 | 24 47 | 1 50 | 20 29 | 1 52 | 19 25 | 0 16 | 14 38 | 0 58 | 22 23 | 0 26 | 23 9 | 0 5 | 2 34 | 1 18 | 24 33 | 5 0 | 22 43 | 22 37 | 18 33 | 16 9 | 6 21 | T 23 |
| F 24 | 23 27 | 20 44 | 1 56 | 24 37 | 1 53 | 20 10 | 1 51 | 19 35 | 0 15 | 14 35 | 0 58 | 22 23 | 0 26 | 23 9 | 0 5 | 2 34 | 1 18 | 24 33 | 5 0 | 22 43 | 22 37 | 18 31 | 16 9 | 6 21 | F 24 |
| S 25 | 23 26 | 22 26 | 0 39 | 24 25 | 1 54 | 19 51 | 1 51 | 19 45 | 0 15 | 14 31 | 0 58 | 22 24 | 0 26 | 23 9 | 0 5 | 2 34 | 1 18 | 24 32 | 5 0 | 22 43 | 22 36 | 18 30 | 16 8 | 6 21 | S 25 |
| S 26 | 23 24 | 22 36 | 0n43 | 24 11 | 1 55 | 19 32 | 1 50 | 19 55 | 0 14 | 14 28 | 0 58 | 22 24 | 0 26 | 23 10 | 0 5 | 2 34 | 1 18 | 24 32 | 5 0 | 22 43 | 22 36 | 18 28 | 16 7 | 6 21 | S 26 |
| M27 | 23 22 | 21 9 | 2 3 | 23 55 | 1 55 | 19 12 | 1 50 | 20 4 | 0 13 | 14 24 | 0 58 | 22 25 | 0 26 | 23 10 | 0 5 | 2 34 | 1 18 | 24 32 | 5 0 | 22 43 | 22 36 | 18 26 | 16 7 | 6 21 | M27 |
| T 28 | 23 20 | 18 10 | 3 15 | 23 36 | 1 54 | 18 51 | 1 49 | 20 14 | 0 13 | 14 20 | 0 58 | 22 25 | 0 25 | 23 10 | 0 5 | 2 34 | 1 18 | 24 31 | 5 0 | 22 43 | 22 35 | 18 24 | 16 6 | 6 21 | T 28 |
| W29 | 23 17 | 13 59 | 4 13 | 23 17 | 1 52 | 18 30 | 1 48 | 20 23 | 0 12 | 14 17 | 0 58 | 22 26 | 0 25 | 23 11 | 0 5 | 2 34 | 1 18 | 24 31 | 5 0 | 22 42 | 22 35 | 18 23 | 16 5 | 6 21 | W29 |
| T 30 | 23n13 | 8s59 | 4n53 | 22n55 | 1n50 | 18n 9 | 1n47 | 20n32 | 0s11 | 14n13 | 0n58 | 22s26 | 0n25 | 23n11 | 0n 5 | 2s34 | 1s18 | 24n31 | 5n 0 | 22s42 | 22s35 | 18n21 | 16n 4 | 6s21 | T 30 |

Julian Day Number = 2340297.5, Delta T = 16.02 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'19, Lahiri = 19°36'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## JULY 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 18 36 56 | 9♋10'40 | 8♓23 | 27♋ 6 | 15♌55 | 3♊19 | 24♌53 | 12°R44 | 20♊ 0 | 26°R35 | 2♌30 | 15°R34 | 14♐27 | 23♋ 8 | 17♋20 | F 1 |
| S 2 | 18 40 52 | 10° 7'51 | 22°31 | 28°51 | 17° 6 | 4° 1 | 25° 4 | 12♑40 | 20° 3 | 26♓35 | 2°31 | 15♐32 | 14°24 | 23°14 | 17°27 | S 2 |
| S 3 | 18 44 49 | 11° 5'02 | 6♈13 | 0♌33 | 18°16 | 4°43 | 25°15 | 12°35 | 20° 7 | 26°34 | 2°33 | 15°D31 | 14°21 | 23°21 | 17°34 | S 3 |
| M 4 | 18 48 46 | 12° 2'14 | 19°29 | 2°14 | 19°26 | 5°25 | 25°26 | 12°31 | 20°10 | 26°34 | 2°34 | 15°31 | 14°18 | 23°28 | 17°40 | M 4 |
| T 5 | 18 52 42 | 12°59'26 | 2♉23 | 3°53 | 20°36 | 6° 7 | 25°37 | 12°27 | 20°14 | 26°34 | 2°36 | 15°32 | 14°15 | 23°34 | 17°47 | T 5 |
| W 6 | 18 56 39 | 13°56'39 | 14°58 | 5°30 | 21°46 | 6°49 | 25°48 | 12°22 | 20°17 | 26°34 | 2°38 | 15°34 | 14°11 | 23°41 | 17°54 | W 6 |
| T 7 | 19 0 35 | 14°53'52 | 27°17 | 7° 4 | 22°56 | 7°31 | 25°59 | 12°18 | 20°20 | 26°34 | 2°39 | 15°35 | 14° 8 | 23°48 | 18° 1 | T 7 |
| F 8 | 19 4 32 | 15°51'05 | 9♊24 | 8°37 | 24° 6 | 8°12 | 26°10 | 12°13 | 20°24 | 26°33 | 2°41 | 15°36 | 14° 5 | 23°54 | 18° 8 | F 8 |
| S 9 | 19 8 28 | 16°48'19 | 21°22 | 10° 7 | 25°15 | 8°54 | 26°22 | 12° 9 | 20°27 | 26°33 | 2°43 | 15°R36 | 14° 2 | 24° 1 | 18°15 | S 9 |
| S 10 | 19 12 25 | 17°45'34 | 3♋15 | 11°36 | 26°25 | 9°35 | 26°33 | 12° 5 | 20°30 | 26°33 | 2°44 | 15°35 | 13°59 | 24° 8 | 18°21 | S 10 |
| M11 | 19 16 21 | 18°42'49 | 15° 5 | 13° 2 | 27°35 | 10°17 | 26°45 | 12° 0 | 20°33 | 26°32 | 2°46 | 15°32 | 13°55 | 24°15 | 18°28 | M11 |
| T 12 | 19 20 18 | 19°40'04 | 26°54 | 14°26 | 28°44 | 10°58 | 26°56 | 11°56 | 20°37 | 26°32 | 2°48 | 15°27 | 13°52 | 24°21 | 18°35 | T 12 |
| W13 | 19 24 15 | 20°37'20 | 8♌43 | 15°48 | 29°53 | 11°40 | 27° 8 | 11°51 | 20°40 | 26°32 | 2°49 | 15°21 | 13°49 | 24°28 | 18°42 | W13 |
| T 14 | 19 28 11 | 21°34'35 | 20°36 | 17° 8 | 1♍ 3 | 12°21 | 27°19 | 11°47 | 20°43 | 26°31 | 2°51 | 15°15 | 13°46 | 24°35 | 18°49 | T 14 |
| F 15 | 19 32 8 | 22°31'52 | 2♍35 | 18°25 | 2°12 | 13° 2 | 27°31 | 11°43 | 20°46 | 26°31 | 2°53 | 15° 8 | 13°43 | 24°41 | 18°56 | F 15 |
| S 16 | 19 36 4 | 23°29'08 | 14°40 | 19°40 | 3°21 | 13°43 | 27°43 | 11°38 | 20°49 | 26°30 | 2°55 | 15° 3 | 13°40 | 24°48 | 19° 2 | S 16 |
| S 17 | 19 40 1 | 24°26'25 | 26°56 | 20°53 | 4°30 | 14°24 | 27°55 | 11°34 | 20°52 | 26°30 | 2°56 | 14°58 | 13°36 | 24°55 | 19° 9 | S 17 |
| M18 | 19 43 57 | 25°23'42 | 9♎26 | 22° 3 | 5°39 | 15° 5 | 28° 6 | 11°30 | 20°56 | 26°29 | 2°58 | 14°55 | 13°33 | 25° 1 | 19°16 | M18 |
| T 19 | 19 47 54 | 26°21'00 | 22°12 | 23°11 | 6°48 | 15°46 | 28°18 | 11°26 | 20°59 | 26°28 | 3° 0 | 14°D54 | 13°30 | 25° 8 | 19°23 | T 19 |
| W20 | 19 51 50 | 27°18'18 | 5♏20 | 24°16 | 7°57 | 16°27 | 28°30 | 11°22 | 21° 2 | 26°28 | 3° 1 | 14°54 | 13°27 | 25°15 | 19°30 | W20 |
| T 21 | 19 55 47 | 28°15'36 | 18°50 | 25°19 | 9° 5 | 17° 8 | 28°42 | 11°17 | 21° 5 | 26°27 | 3° 3 | 14°55 | 13°24 | 25°21 | 19°37 | T 21 |
| F 22 | 19 59 44 | 29°12'55 | 2♐47 | 26°19 | 10°14 | 17°48 | 28°54 | 11°13 | 21° 8 | 26°26 | 3° 5 | 14°56 | 13°21 | 25°28 | 19°43 | F 22 |
| S 23 | 20 3 40 | 0♑10'14 | 17°10 | 27°15 | 11°22 | 18°29 | 29° 6 | 11° 9 | 21°11 | 26°26 | 3° 7 | 14°R57 | 13°17 | 25°35 | 19°50 | S 23 |
| S 24 | 20 7 37 | 1° 7'34 | 1♑56 | 28° 9 | 12°30 | 19°10 | 29°19 | 11° 5 | 21°14 | 26°25 | 3° 8 | 14°55 | 13°14 | 25°41 | 19°57 | S 24 |
| M25 | 20 11 33 | 2° 4'54 | 17° 1 | 29° 0 | 13°38 | 19°50 | 29°31 | 11° 1 | 21°17 | 26°24 | 3°10 | 14°52 | 13°11 | 25°48 | 20° 4 | M25 |
| T 26 | 20 15 30 | 3° 2'16 | 2♒16 | 29°47 | 14°46 | 20°31 | 29°43 | 10°57 | 21°19 | 26°23 | 3°12 | 14°47 | 13° 8 | 25°55 | 20°11 | T 26 |
| W27 | 20 19 26 | 3°59'38 | 17°31 | 0♍31 | 15°54 | 21°11 | 29°55 | 10°53 | 21°22 | 26°23 | 3°14 | 14°41 | 13° 5 | 26° 1 | 20°17 | W27 |
| T 28 | 20 23 23 | 4°57'00 | 2♓35 | 1°11 | 17° 2 | 21°51 | 0♍ 8 | 10°50 | 21°25 | 26°22 | 3°15 | 14°33 | 13° 1 | 26° 8 | 20°24 | T 28 |
| F 29 | 20 27 19 | 5°54'24 | 17°19 | 1°48 | 18°10 | 22°32 | 0°20 | 10°46 | 21°28 | 26°21 | 3°17 | 14°26 | 12°58 | 26°15 | 20°31 | F 29 |
| S 30 | 20 31 16 | 6°51'49 | 1♈38 | 2°20 | 19°17 | 23°12 | 0°32 | 10°42 | 21°31 | 26°20 | 3°19 | 14°20 | 12°55 | 26°21 | 20°37 | S 30 |
| S 31 | 20 35 13 | 7♌49'15 | 15♈27 | 2♍48 | 20♍25 | 23♊52 | 0♍45 | 10♑38 | 21♊33 | 26♓19 | 3♌21 | 14♐16 | 12♐52 | 26♋28 | 20♋44 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 23n10 | 3s36 | 5n12 | 22n32 | 1n48 | 17n47 | 1n46 | 20n41 | 0s10 | 14n10 | 0n58 | 22s27 | 0n25 | 23n11 | 0n 5 | 2s34 | 1s19 | 24n30 | 5n 0 | 22s42 | 22s34 | 18n19 | 16n 4 | 6s21 |
| S 2 | 23 5 | 1n49 | 5 12 | 22 8 | 1 45 | 17 24 | 1 45 | 20 50 | 0 10 | 14 6 | 0 58 | 22 27 | 0 25 | 23 11 | 0 5 | 2 34 | 1 19 | 24 30 | 5 0 | 22 41 | 22 34 | 18 17 | 16 3 | 6 21 |
| S 3 | 23 1 | 6 59 | 4 55 | 21 42 | 1 41 | 17 2 | 1 44 | 20 58 | 0 9 | 14 2 | 0 58 | 22 28 | 0 25 | 23 12 | 0 5 | 2 34 | 1 19 | 24 30 | 5 0 | 22 41 | 22 34 | 18 15 | 16 2 | 6 21 |
| M 4 | 22 56 | 11 40 | 4 21 | 21 15 | 1 36 | 16 38 | 1 43 | 21 6 | 0 8 | 13 58 | 0 58 | 22 28 | 0 25 | 23 12 | 0 5 | 2 34 | 1 19 | 24 29 | 5 0 | 22 41 | 22 33 | 18 14 | 16 1 | 6 21 |
| T 5 | 22 51 | 15 41 | 3 36 | 20 48 | 1 31 | 16 15 | 1 41 | 21 14 | 0 8 | 13 55 | 0 58 | 22 29 | 0 25 | 23 12 | 0 5 | 2 34 | 1 19 | 24 29 | 5 0 | 22 41 | 22 33 | 18 12 | 16 0 | 6 20 |
| W 6 | 22 45 | 18 54 | 2 40 | 20 19 | 1 26 | 15 51 | 1 40 | 21 22 | 0 7 | 13 51 | 0 58 | 22 29 | 0 25 | 23 12 | 0 5 | 2 34 | 1 19 | 24 28 | 5 0 | 22 42 | 22 32 | 18 10 | 15 59 | 6 20 |
| T 7 | 22 39 | 21 11 | 1 39 | 19 49 | 1 20 | 15 26 | 1 38 | 21 30 | 0 6 | 13 47 | 0 58 | 22 30 | 0 25 | 23 13 | 0 5 | 2 34 | 1 19 | 24 28 | 5 0 | 22 42 | 22 32 | 18 8 | 15 59 | 6 20 |
| F 8 | 22 32 | 22 27 | 0 34 | 19 19 | 1 13 | 15 2 | 1 37 | 21 37 | 0 5 | 13 43 | 0 58 | 22 30 | 0 25 | 23 13 | 0 5 | 2 35 | 1 19 | 24 28 | 5 0 | 22 42 | 22 32 | 18 6 | 15 58 | 6 20 |
| S 9 | 22 25 | 22 40 | 0s32 | 18 48 | 1 6 | 14 37 | 1 35 | 21 45 | 0 5 | 13 39 | 0 58 | 22 31 | 0 24 | 23 13 | 0 5 | 2 35 | 1 19 | 24 27 | 5 1 | 22 42 | 22 31 | 18 5 | 15 57 | 6 20 |
| S 10 | 22 18 | 21 51 | 1 35 | 18 17 | 0 59 | 14 11 | 1 33 | 21 52 | 0 4 | 13 35 | 0 58 | 22 31 | 0 24 | 23 13 | 0 5 | 2 35 | 1 19 | 24 27 | 5 1 | 22 42 | 22 31 | 18 3 | 15 56 | 6 20 |
| M11 | 22 10 | 20 4 | 2 34 | 17 45 | 0 51 | 13 45 | 1 31 | 21 59 | 0 3 | 13 31 | 0 58 | 22 32 | 0 24 | 23 14 | 0 5 | 2 35 | 1 19 | 24 27 | 5 1 | 22 41 | 22 31 | 18 1 | 15 55 | 6 21 |
| T 12 | 22 2 | 17 26 | 3 26 | 17 12 | 0 43 | 13 19 | 1 29 | 22 5 | 0 2 | 13 27 | 0 58 | 22 32 | 0 24 | 23 14 | 0 5 | 2 35 | 1 19 | 24 26 | 5 1 | 22 41 | 22 30 | 17 59 | 15 54 | 6 21 |
| W13 | 21 54 | 14 5 | 4 10 | 16 40 | 0 34 | 12 53 | 1 27 | 22 12 | 0 2 | 13 23 | 0 58 | 22 33 | 0 24 | 23 14 | 0 5 | 2 36 | 1 19 | 24 26 | 5 1 | 22 40 | 22 30 | 17 57 | 15 53 | 6 21 |
| T 14 | 21 45 | 10 11 | 4 42 | 16 7 | 0 25 | 12 26 | 1 24 | 22 18 | 0 1 | 13 19 | 0 57 | 22 33 | 0 24 | 23 14 | 0 5 | 2 36 | 1 19 | 24 26 | 5 1 | 22 40 | 22 29 | 17 56 | 15 52 | 6 21 |
| F 15 | 21 35 | 5 51 | 5 3 | 15 35 | 0 15 | 11 59 | 1 22 | 22 24 | 0 0 | 13 15 | 0 57 | 22 34 | 0 24 | 23 15 | 0 5 | 2 36 | 1 19 | 24 25 | 5 1 | 22 39 | 22 29 | 17 54 | 15 51 | 6 21 |
| S 16 | 21 26 | 1 16 | 5 10 | 15 2 | 0 6 | 11 32 | 1 20 | 22 30 | 0n 1 | 13 11 | 0 57 | 22 34 | 0 24 | 23 15 | 0 5 | 2 36 | 1 19 | 24 25 | 5 1 | 22 38 | 22 29 | 17 52 | 15 50 | 6 21 |
| S 17 | 21 16 | 3s25 | 5 4 | 14 29 | 0s 4 | 11 4 | 1 17 | 22 35 | 0 1 | 13 7 | 0 57 | 22 35 | 0 24 | 23 15 | 0 5 | 2 37 | 1 19 | 24 25 | 5 1 | 22 38 | 22 28 | 17 50 | 15 49 | 6 21 |
| M18 | 21 6 | 8 4 | 4 43 | 13 57 | 0 15 | 10 37 | 1 15 | 22 41 | 0 2 | 13 3 | 0 57 | 22 35 | 0 24 | 23 15 | 0 5 | 2 37 | 1 19 | 24 24 | 5 1 | 22 37 | 22 28 | 17 48 | 15 48 | 6 21 |
| T 19 | 20 55 | 12 29 | 4 7 | 13 24 | 0 26 | 10 9 | 1 12 | 22 46 | 0 3 | 12 59 | 0 57 | 22 36 | 0 24 | 23 15 | 0 5 | 2 37 | 1 19 | 24 24 | 5 1 | 22 37 | 22 27 | 17 46 | 15 47 | 6 21 |
| W20 | 20 44 | 16 26 | 3 18 | 12 53 | 0 37 | 9 40 | 1 9 | 22 51 | 0 4 | 12 55 | 0 57 | 22 36 | 0 23 | 23 16 | 0 5 | 2 37 | 1 19 | 24 23 | 5 1 | 22 37 | 22 27 | 17 45 | 15 46 | 6 21 |
| T 21 | 20 33 | 19 39 | 2 17 | 12 21 | 0 48 | 9 12 | 1 6 | 22 56 | 0 4 | 12 50 | 0 57 | 22 37 | 0 23 | 23 16 | 0 5 | 2 38 | 1 20 | 24 23 | 5 1 | 22 37 | 22 27 | 17 43 | 15 45 | 6 21 |
| F 22 | 20 21 | 21 49 | 1 5 | 11 50 | 0 59 | 8 43 | 1 3 | 23 0 | 0 5 | 12 46 | 0 57 | 22 37 | 0 23 | 23 16 | 0 5 | 2 38 | 1 20 | 24 23 | 5 1 | 22 38 | 22 26 | 17 41 | 15 44 | 6 21 |
| S 23 | 20 9 | 22 39 | 0n12 | 11 20 | 1 11 | 8 14 | 1 0 | 23 5 | 0 6 | 12 42 | 0 57 | 22 37 | 0 23 | 23 16 | 0 5 | 2 38 | 1 20 | 24 22 | 5 1 | 22 38 | 22 26 | 17 39 | 15 43 | 6 21 |
| S 24 | 19 56 | 21 57 | 1 31 | 10 50 | 1 23 | 7 45 | 0 57 | 23 9 | 0 7 | 12 38 | 0 57 | 22 38 | 0 23 | 23 17 | 0 5 | 2 39 | 1 20 | 24 22 | 5 1 | 22 37 | 22 25 | 17 37 | 15 42 | 6 22 |
| M25 | 19 44 | 19 41 | 2 44 | 10 21 | 1 35 | 7 16 | 0 54 | 23 13 | 0 8 | 12 33 | 0 57 | 22 38 | 0 23 | 23 17 | 0 5 | 2 39 | 1 20 | 24 22 | 5 1 | 22 37 | 22 25 | 17 35 | 15 41 | 6 22 |
| T 26 | 19 31 | 16 0 | 3 47 | 9 53 | 1 47 | 6 47 | 0 50 | 23 17 | 0 8 | 12 29 | 0 57 | 22 39 | 0 23 | 23 17 | 0 5 | 2 39 | 1 20 | 24 21 | 5 1 | 22 37 | 22 25 | 17 34 | 15 40 | 6 22 |
| W27 | 19 17 | 11 16 | 4 34 | 9 27 | 2 0 | 6 17 | 0 47 | 23 20 | 0 9 | 12 25 | 0 57 | 22 39 | 0 23 | 23 17 | 0 5 | 2 40 | 1 20 | 24 21 | 5 1 | 22 36 | 22 24 | 17 32 | 15 39 | 6 22 |
| T 28 | 19 4 | 5 54 | 5 1 | 9 1 | 2 12 | 5 48 | 0 43 | 23 23 | 0 10 | 12 20 | 0 57 | 22 40 | 0 23 | 23 17 | 0 5 | 2 40 | 1 20 | 24 21 | 5 2 | 22 35 | 22 24 | 17 30 | 15 38 | 6 22 |
| F 29 | 18 50 | 0 18 | 5 7 | 8 36 | 2 24 | 5 18 | 0 40 | 23 27 | 0 11 | 12 16 | 0 57 | 22 40 | 0 23 | 23 18 | 0 5 | 2 41 | 1 20 | 24 20 | 5 2 | 22 34 | 22 23 | 17 28 | 15 36 | 6 22 |
| S 30 | 18 35 | 5n 8 | 4 53 | 8 13 | 2 37 | 4 48 | 0 36 | 23 30 | 0 11 | 12 11 | 0 57 | 22 40 | 0 22 | 23 18 | 0 5 | 2 41 | 1 20 | 24 20 | 5 2 | 22 33 | 22 23 | 17 26 | 15 35 | 6 23 |
| S 31 | 18n21 | 10n 8 | 4n23 | 7n52 | 2s49 | 4n18 | 0n32 | 23n32 | 0n12 | 12n 7 | 0n57 | 22s41 | 0n22 | 23n18 | 0n 5 | 2s41 | 1s20 | 24n20 | 5n 2 | 22s33 | 22s23 | 17n24 | 15n34 | 6s23 |

Julian Day Number = 2340327.5, Delta T = 15.99 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'23, Lahiri = 19°36'23Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## AUGUST 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 20 39 9 | 8♌46'43 | 28♈47 | 3♍12 | 21♍32 | 24♊32 | 0♍57 | 10°R35 | 21♊36 | 26°R18 | 3♌22 | 14°R14 | 12♐49 | 26♋35 | 20♋51 | M 1 |
| T 2 | 20 43 6 | 9°44'11 | 11♉40 | 3°31 | 22°39 | 25°12 | 1°10 | 10♂31 | 21°39 | 26♓17 | 3°24 | 14°D13 | 12°46 | 26°41 | 20°57 | T 2 |
| W 3 | 20 47 2 | 10°41'42 | 24°12 | 3°46 | 23°46 | 25°52 | 1°22 | 10°28 | 21°41 | 26°16 | 3°26 | 14♐14 | 12°42 | 26°48 | 21° 4 | W 3 |
| T 4 | 20 50 59 | 11°39'13 | 6♊25 | 3°56 | 24°53 | 26°32 | 1°35 | 10°24 | 21°44 | 26°15 | 3°27 | 14°15 | 12°39 | 26°55 | 21°11 | T 4 |
| F 5 | 20 54 55 | 12°36'46 | 18°26 | 4°R 0 | 26° 0 | 27°11 | 1°48 | 10°21 | 21°47 | 26°14 | 3°29 | 14°R15 | 12°36 | 27° 2 | 21°17 | F 5 |
| S 6 | 20 58 52 | 13°34'20 | 0♋19 | 3°59 | 27° 6 | 27°51 | 2° 0 | 10°17 | 21°49 | 26°13 | 3°31 | 14°13 | 12°33 | 27° 8 | 21°24 | S 6 |
| S 7 | 21 2 48 | 14°31'56 | 12° 8 | 3°53 | 28°13 | 28°31 | 2°13 | 10°14 | 21°52 | 26°12 | 3°33 | 14°10 | 12°30 | 27°15 | 21°30 | S 7 |
| M 8 | 21 6 45 | 15°29'33 | 23°56 | 3°42 | 29°19 | 29°10 | 2°26 | 10°11 | 21°54 | 26°10 | 3°34 | 14° 3 | 12°27 | 27°22 | 21°37 | M 8 |
| T 9 | 21 10 42 | 16°27'11 | 5♌46 | 3°24 | 0♎25 | 29°50 | 2°38 | 10° 8 | 21°56 | 26° 9 | 3°36 | 13°55 | 12°23 | 27°28 | 21°43 | T 9 |
| W10 | 21 14 38 | 17°24'50 | 17°41 | 3° 2 | 1°31 | 0♋29 | 2°51 | 10° 5 | 21°59 | 26° 8 | 3°38 | 13°44 | 12°20 | 27°35 | 21°50 | W10 |
| T 11 | 21 18 35 | 18°22'31 | 29°41 | 2°34 | 2°37 | 1° 8 | 3° 4 | 10° 2 | 22° 1 | 26° 7 | 3°39 | 13°32 | 12°17 | 27°42 | 21°56 | T 11 |
| F 12 | 21 22 31 | 19°20'13 | 11♍47 | 2° 1 | 3°42 | 1°48 | 3°17 | 9°59 | 22° 3 | 26° 6 | 3°41 | 13°20 | 12°14 | 27°48 | 22° 3 | F 12 |
| S 13 | 21 26 28 | 20°17'56 | 24° 2 | 1°23 | 4°48 | 2°27 | 3°29 | 9°56 | 22° 6 | 26° 4 | 3°43 | 13° 9 | 12°11 | 27°55 | 22° 9 | S 13 |
| S 14 | 21 30 24 | 21°15'40 | 6♎27 | 0°41 | 5°53 | 3° 6 | 3°42 | 9°53 | 22° 8 | 26° 3 | 3°44 | 13° 0 | 12° 7 | 28° 2 | 22°16 | S 14 |
| M15 | 21 34 21 | 22°13'25 | 19° 3 | 29♌54 | 6°58 | 3°45 | 3°55 | 9°50 | 22°10 | 26° 2 | 3°46 | 12°53 | 12° 4 | 28° 8 | 22°22 | M15 |
| T 16 | 21 38 17 | 23°11'12 | 1♏52 | 29° 5 | 8° 3 | 4°24 | 4° 8 | 9°48 | 22°12 | 26° 1 | 3°48 | 12°49 | 12° 1 | 28°15 | 22°28 | T 16 |
| W17 | 21 42 14 | 24° 9'00 | 14°58 | 28°14 | 9° 7 | 5° 3 | 4°21 | 9°45 | 22°14 | 25°59 | 3°49 | 12°47 | 11°58 | 28°22 | 22°34 | W17 |
| T 18 | 21 46 11 | 25° 6'49 | 28°23 | 27°21 | 10°12 | 5°41 | 4°34 | 9°43 | 22°16 | 25°58 | 3°51 | 12°D47 | 11°55 | 28°28 | 22°41 | T 18 |
| F 19 | 21 50 7 | 26° 4'39 | 12♐10 | 26°27 | 11°16 | 6°20 | 4°47 | 9°40 | 22°18 | 25°56 | 3°53 | 12°R47 | 11°52 | 28°35 | 22°47 | F 19 |
| S 20 | 21 54 4 | 27° 2'30 | 26°19 | 25°34 | 12°20 | 6°59 | 5° 0 | 9°38 | 22°20 | 25°55 | 3°54 | 12°46 | 11°48 | 28°42 | 22°53 | S 20 |
| S 21 | 21 58 0 | 28° 0'23 | 10♑51 | 24°43 | 13°24 | 7°37 | 5°13 | 9°36 | 22°22 | 25°54 | 3°56 | 12°44 | 11°45 | 28°48 | 22°59 | S 21 |
| M22 | 22 1 57 | 28°58'17 | 25°42 | 23°55 | 14°27 | 8°16 | 5°26 | 9°34 | 22°24 | 25°52 | 3°58 | 12°39 | 11°42 | 28°55 | 23° 5 | M22 |
| T 23 | 22 5 53 | 29°56'12 | 10♒45 | 23°11 | 15°31 | 8°54 | 5°39 | 9°32 | 22°26 | 25°51 | 3°59 | 12°32 | 11°39 | 29° 2 | 23°11 | T 23 |
| W24 | 22 9 50 | 0♍54'09 | 25°53 | 22°32 | 16°34 | 9°33 | 5°52 | 9°30 | 22°28 | 25°49 | 4° 1 | 12°22 | 11°36 | 29° 9 | 23°17 | W24 |
| T 25 | 22 13 46 | 1°52'07 | 10♓54 | 21°59 | 17°36 | 10°11 | 6° 5 | 9°28 | 22°30 | 25°48 | 4° 2 | 12°11 | 11°32 | 29°15 | 23°23 | T 25 |
| F 26 | 22 17 43 | 2°50'07 | 25°39 | 21°32 | 18°39 | 10°49 | 6°18 | 9°26 | 22°31 | 25°46 | 4° 4 | 12° 0 | 11°29 | 29°22 | 23°29 | F 26 |
| S 27 | 22 21 40 | 3°48'08 | 10♈ 1 | 21°13 | 19°41 | 11°27 | 6°31 | 9°25 | 22°33 | 25°45 | 4° 5 | 11°51 | 11°26 | 29°29 | 23°35 | S 27 |
| S 28 | 22 25 36 | 4°46'12 | 23°55 | 21° 1 | 20°43 | 12° 5 | 6°44 | 9°23 | 22°35 | 25°43 | 4° 7 | 11°44 | 11°23 | 29°35 | 23°41 | S 28 |
| M29 | 22 29 33 | 5°44'17 | 7♉20 | 20°D58 | 21°45 | 12°43 | 6°57 | 9°22 | 22°36 | 25°42 | 4° 8 | 11°39 | 11°20 | 29°42 | 23°46 | M29 |
| T 30 | 22 33 29 | 6°42'24 | 20°17 | 21° 3 | 22°46 | 13°21 | 7°10 | 9°20 | 22°38 | 25°40 | 4°10 | 11°37 | 11°17 | 29°49 | 23°52 | T 30 |
| W31 | 22 37 26 | 7♍40'34 | 2♊50 | 21♌17 | 23♎48 | 13♋58 | 7♍23 | 9♑19 | 22♊39 | 25♓39 | 4♌11 | 11♐36 | 11♐13 | 29♋55 | 23♋58 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 18n 6 | 14n28 | 3n39 | 7n32 | 3s 1 | 3n48 | 0n28 | 23n35 | 0n13 | 12n 3 | 0n57 | 22s41 | 0n22 | 23n18 | 0n 5 | 2s42 | 1s20 | 24n19 | 5n 2 | 22s33 | 22s22 | 17n22 | 15n33 | 6s23 |
| T 2 | 17 50 | 17 59 | 2 46 | 7 14 | 3 13 | 3 18 | 0 24 | 23 37 | 0 14 | 11 58 | 0 57 | 22 42 | 0 22 | 23 18 | 0 5 | 2 42 | 1 20 | 24 19 | 5 2 | 22 33 | 22 22 | 17 20 | 15 32 | 6 23 |
| W 3 | 17 35 | 20 33 | 1 46 | 6 58 | 3 24 | 2 47 | 0 20 | 23 39 | 0 15 | 11 54 | 0 57 | 22 42 | 0 22 | 23 18 | 0 5 | 2 43 | 1 20 | 24 19 | 5 2 | 22 33 | 22 21 | 17 19 | 15 31 | 6 23 |
| T 4 | 17 19 | 22 6 | 0 42 | 6 44 | 3 36 | 2 17 | 0 16 | 23 41 | 0 15 | 11 49 | 0 57 | 22 42 | 0 22 | 23 19 | 0 5 | 2 43 | 1 20 | 24 18 | 5 2 | 22 33 | 22 21 | 17 17 | 15 29 | 6 24 |
| F 5 | 17 3 | 22 36 | 0s22 | 6 32 | 3 47 | 1 47 | 0 12 | 23 43 | 0 16 | 11 45 | 0 57 | 22 43 | 0 22 | 23 19 | 0 5 | 2 44 | 1 20 | 24 18 | 5 2 | 22 33 | 22 21 | 17 15 | 15 28 | 6 24 |
| S 6 | 16 47 | 22 4 | 1 25 | 6 23 | 3 57 | 1 16 | 0 8 | 23 45 | 0 17 | 11 40 | 0 57 | 22 43 | 0 22 | 23 19 | 0 6 | 2 44 | 1 20 | 24 18 | 5 2 | 22 33 | 22 20 | 17 13 | 15 27 | 6 24 |
| S 7 | 16 30 | 20 33 | 2 23 | 6 16 | 4 6 | 0 46 | 0 3 | 23 46 | 0 18 | 11 36 | 0 57 | 22 43 | 0 22 | 23 19 | 0 6 | 2 45 | 1 20 | 24 17 | 5 2 | 22 32 | 22 20 | 17 11 | 15 26 | 6 24 |
| M 8 | 16 13 | 18 9 | 3 15 | 6 12 | 4 15 | 0 16 | 0s 1 | 23 47 | 0 19 | 11 31 | 0 57 | 22 44 | 0 21 | 23 19 | 0 6 | 2 45 | 1 20 | 24 17 | 5 2 | 22 31 | 22 19 | 17 9 | 15 25 | 6 24 |
| T 9 | 15 56 | 15 0 | 3 59 | 6 11 | 4 23 | 0s15 | 0 5 | 23 48 | 0 19 | 11 26 | 0 57 | 22 44 | 0 21 | 23 19 | 0 6 | 2 46 | 1 20 | 24 17 | 5 3 | 22 30 | 22 19 | 17 7 | 15 23 | 6 25 |
| W10 | 15 38 | 11 14 | 4 32 | 6 13 | 4 30 | 0 45 | 0 10 | 23 49 | 0 20 | 11 22 | 0 57 | 22 44 | 0 21 | 23 20 | 0 6 | 2 46 | 1 20 | 24 16 | 5 3 | 22 29 | 22 19 | 17 5 | 15 22 | 6 25 |
| T 11 | 15 21 | 7 1 | 4 54 | 6 17 | 4 35 | 1 16 | 0 15 | 23 49 | 0 21 | 11 17 | 0 57 | 22 45 | 0 21 | 23 20 | 0 6 | 2 47 | 1 20 | 24 16 | 5 3 | 22 28 | 22 18 | 17 3 | 15 21 | 6 25 |
| F 12 | 15 3 | 2 30 | 5 2 | 6 25 | 4 40 | 1 46 | 0 19 | 23 50 | 0 22 | 11 13 | 0 57 | 22 45 | 0 21 | 23 20 | 0 6 | 2 47 | 1 20 | 24 16 | 5 3 | 22 26 | 22 18 | 17 2 | 15 20 | 6 26 |
| S 13 | 14 45 | 2s10 | 4 57 | 6 36 | 4 43 | 2 17 | 0 24 | 23 50 | 0 23 | 11 8 | 0 57 | 22 45 | 0 21 | 23 20 | 0 6 | 2 48 | 1 20 | 24 15 | 5 3 | 22 25 | 22 17 | 17 0 | 15 18 | 6 26 |
| S 14 | 14 26 | 6 49 | 4 38 | 6 50 | 4 44 | 2 47 | 0 29 | 23 50 | 0 23 | 11 3 | 0 57 | 22 46 | 0 21 | 23 20 | 0 6 | 2 48 | 1 21 | 24 15 | 5 3 | 22 24 | 22 17 | 16 58 | 15 17 | 6 26 |
| M15 | 14 8 | 11 15 | 4 5 | 7 6 | 4 43 | 3 17 | 0 34 | 23 50 | 0 24 | 10 59 | 0 57 | 22 46 | 0 21 | 23 20 | 0 6 | 2 49 | 1 21 | 24 15 | 5 3 | 22 23 | 22 17 | 16 56 | 15 16 | 6 26 |
| T 16 | 13 49 | 15 15 | 3 19 | 7 25 | 4 41 | 3 48 | 0 39 | 23 49 | 0 25 | 10 54 | 0 57 | 22 46 | 0 21 | 23 21 | 0 6 | 2 49 | 1 21 | 24 15 | 5 3 | 22 22 | 22 16 | 16 54 | 15 14 | 6 27 |
| W17 | 13 30 | 18 37 | 2 22 | 7 47 | 4 36 | 4 18 | 0 44 | 23 49 | 0 26 | 10 49 | 0 57 | 22 47 | 0 21 | 23 21 | 0 6 | 2 50 | 1 21 | 24 14 | 5 3 | 22 22 | 22 16 | 16 52 | 15 13 | 6 27 |
| T 18 | 13 10 | 21 4 | 1 16 | 8 11 | 4 30 | 4 48 | 0 49 | 23 48 | 0 27 | 10 45 | 0 57 | 22 47 | 0 20 | 23 21 | 0 6 | 2 50 | 1 21 | 24 14 | 5 4 | 22 22 | 22 15 | 16 50 | 15 12 | 6 27 |
| F 19 | 12 51 | 22 20 | 0 3 | 8 36 | 4 22 | 5 18 | 0 54 | 23 47 | 0 28 | 10 40 | 0 57 | 22 47 | 0 20 | 23 21 | 0 6 | 2 51 | 1 21 | 24 14 | 5 4 | 22 22 | 22 15 | 16 48 | 15 10 | 6 28 |
| S 20 | 12 31 | 22 14 | 1n11 | 9 3 | 4 12 | 5 48 | 1 0 | 23 46 | 0 28 | 10 35 | 0 57 | 22 48 | 0 20 | 23 21 | 0 6 | 2 52 | 1 21 | 24 13 | 5 4 | 22 22 | 22 14 | 16 46 | 15 9 | 6 28 |
| S 21 | 12 11 | 20 40 | 2 23 | 9 31 | 4 0 | 6 17 | 1 5 | 23 45 | 0 29 | 10 30 | 0 57 | 22 48 | 0 20 | 23 21 | 0 6 | 2 52 | 1 21 | 24 13 | 5 4 | 22 22 | 22 14 | 16 44 | 15 8 | 6 28 |
| M22 | 11 51 | 17 39 | 3 26 | 10 0 | 3 47 | 6 47 | 1 10 | 23 43 | 0 30 | 10 26 | 0 57 | 22 48 | 0 20 | 23 21 | 0 6 | 2 53 | 1 21 | 24 13 | 5 4 | 22 21 | 22 14 | 16 42 | 15 6 | 6 29 |
| T 23 | 11 31 | 13 27 | 4 16 | 10 28 | 3 32 | 7 17 | 1 15 | 23 42 | 0 31 | 10 21 | 0 57 | 22 48 | 0 20 | 23 21 | 0 6 | 2 53 | 1 21 | 24 13 | 5 4 | 22 20 | 22 13 | 16 40 | 15 5 | 6 29 |
| W24 | 11 10 | 8 23 | 4 49 | 10 56 | 3 16 | 7 46 | 1 21 | 23 40 | 0 32 | 10 16 | 0 58 | 22 49 | 0 20 | 23 22 | 0 6 | 2 54 | 1 21 | 24 12 | 5 4 | 22 19 | 22 13 | 16 39 | 15 4 | 6 30 |
| T 25 | 10 50 | 2 51 | 5 1 | 11 22 | 2 59 | 8 15 | 1 26 | 23 38 | 0 33 | 10 11 | 0 58 | 22 49 | 0 20 | 23 22 | 0 6 | 2 55 | 1 21 | 24 12 | 5 4 | 22 17 | 22 12 | 16 37 | 15 2 | 6 30 |
| F 26 | 10 29 | 2n45 | 4 53 | 11 48 | 2 42 | 8 44 | 1 32 | 23 36 | 0 34 | 10 7 | 0 58 | 22 49 | 0 20 | 23 22 | 0 6 | 2 55 | 1 21 | 24 12 | 5 5 | 22 16 | 22 12 | 16 35 | 15 1 | 6 30 |
| S 27 | 10 8 | 8 3 | 4 26 | 12 11 | 2 23 | 9 13 | 1 37 | 23 33 | 0 34 | 10 2 | 0 58 | 22 49 | 0 19 | 23 22 | 0 6 | 2 56 | 1 21 | 24 12 | 5 5 | 22 15 | 22 11 | 16 33 | 15 0 | 6 31 |
| S 28 | 9 47 | 12 46 | 3 44 | 12 33 | 2 4 | 9 42 | 1 43 | 23 31 | 0 35 | 9 57 | 0 58 | 22 49 | 0 19 | 23 22 | 0 6 | 2 56 | 1 21 | 24 11 | 5 5 | 22 14 | 22 11 | 16 31 | 14 58 | 6 31 |
| M29 | 9 25 | 16 40 | 2 51 | 12 52 | 1 46 | 10 10 | 1 49 | 23 28 | 0 36 | 9 52 | 0 58 | 22 50 | 0 19 | 23 22 | 0 6 | 2 57 | 1 21 | 24 11 | 5 5 | 22 13 | 22 10 | 16 29 | 14 57 | 6 32 |
| T 30 | 9 4 | 19 37 | 1 50 | 13 8 | 1 27 | 10 38 | 1 54 | 23 25 | 0 37 | 9 47 | 0 58 | 22 50 | 0 19 | 23 22 | 0 6 | 2 58 | 1 21 | 24 11 | 5 5 | 22 13 | 22 10 | 16 27 | 14 56 | 6 32 |
| W31 | 8n42 | 21n31 | 0n46 | 13n21 | 1s 8 | 11s 6 | 2s 0 | 23n22 | 0n38 | 9n43 | 0n58 | 22s50 | 0n19 | 23n22 | 0n 6 | 2s58 | 1s21 | 24n11 | 5n 5 | 22s13 | 22s10 | 16n25 | 14n54 | 6s32 |

Julian Day Number = 2340358.5, Delta T = 15.96 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'27, Lahiri = 19°36'28Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## SEPTEMBER 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 41 22 | 8♍38'45 | 15♊ 4 | 21♌40 | 24♎48 | 14♋36 | 7♍36 | 9°R18 | 22♊41 | 25°R37 | 4♌13 | 11°R36 | 11♐10 | 0♌ 2 | 24♋ 3 | T 1 |
| F 2 | 22 45 19 | 9°36'59 | 27° 4 | 22°11 | 25°49 | 15°14 | 7°49 | 9♑16 | 22°42 | 25♓36 | 4°14 | 11♐35 | 11° 7 | 0° 9 | 24° 9 | F 2 |
| S 3 | 22 49 15 | 10°35'14 | 8♋56 | 22°51 | 26°49 | 15°51 | 8° 2 | 9°15 | 22°43 | 25°34 | 4°16 | 11°33 | 11° 4 | 0°15 | 24°15 | S 3 |
| S 4 | 22 53 12 | 11°33'31 | 20°45 | 23°38 | 27°49 | 16°29 | 8°15 | 9°14 | 22°45 | 25°32 | 4°17 | 11°29 | 11° 1 | 0°22 | 24°20 | S 4 |
| M 5 | 22 57 9 | 12°31'51 | 2♌34 | 24°34 | 28°48 | 17° 6 | 8°28 | 9°14 | 22°46 | 25°31 | 4°19 | 11°22 | 10°58 | 0°29 | 24°25 | M 5 |
| T 6 | 23 1 5 | 13°30'12 | 14°28 | 25°36 | 29°48 | 17°43 | 8°41 | 9°13 | 22°47 | 25°29 | 4°20 | 11°12 | 10°54 | 0°36 | 24°31 | T 6 |
| W 7 | 23 5 2 | 14°28'35 | 26°29 | 26°46 | 0♏46 | 18°20 | 8°54 | 9°12 | 22°48 | 25°28 | 4°22 | 10°59 | 10°51 | 0°42 | 24°36 | W 7 |
| T 8 | 23 8 58 | 15°27'01 | 8♍38 | 28° 2 | 1°45 | 18°57 | 9° 7 | 9°12 | 22°49 | 25°26 | 4°23 | 10°46 | 10°48 | 0°49 | 24°41 | T 8 |
| F 9 | 23 12 55 | 16°25'28 | 20°57 | 29°23 | 2°43 | 19°34 | 9°20 | 9°11 | 22°50 | 25°24 | 4°24 | 10°32 | 10°45 | 0°56 | 24°47 | F 9 |
| S 10 | 23 16 51 | 17°23'57 | 3♎26 | 0♍50 | 3°40 | 20°11 | 9°33 | 9°11 | 22°51 | 25°23 | 4°26 | 10°19 | 10°42 | 1° 2 | 24°52 | S 10 |
| S 11 | 23 20 48 | 18°22'27 | 16° 6 | 2°21 | 4°37 | 20°48 | 9°45 | 9°11 | 22°52 | 25°21 | 4°27 | 10° 8 | 10°38 | 1° 9 | 24°57 | S 11 |
| M12 | 23 24 44 | 19°21'00 | 28°57 | 3°57 | 5°34 | 21°25 | 9°58 | 9°10 | 22°53 | 25°19 | 4°28 | 10° 0 | 10°35 | 1°16 | 25° 2 | M12 |
| T 13 | 23 28 41 | 20°19'34 | 11♏59 | 5°35 | 6°30 | 22° 1 | 10°11 | 9°D10 | 22°54 | 25°18 | 4°30 | 9°55 | 10°32 | 1°22 | 25° 7 | T 13 |
| W14 | 23 32 37 | 21°18'10 | 25°13 | 7°17 | 7°26 | 22°38 | 10°24 | 9°10 | 22°55 | 25°16 | 4°31 | 9°52 | 10°29 | 1°29 | 25°12 | W14 |
| T 15 | 23 36 34 | 22°16'48 | 8♐41 | 9° 1 | 8°22 | 23°14 | 10°37 | 9°11 | 22°55 | 25°14 | 4°32 | 9°D51 | 10°26 | 1°36 | 25°16 | T 15 |
| F 16 | 23 40 31 | 23°15'28 | 22°25 | 10°47 | 9°16 | 23°51 | 10°50 | 9°11 | 22°56 | 25°13 | 4°33 | 9°R52 | 10°23 | 1°42 | 25°21 | F 16 |
| S 17 | 23 44 27 | 24°14'09 | 6♑25 | 12°34 | 10°11 | 24°27 | 11° 3 | 9°11 | 22°57 | 25°11 | 4°35 | 9°51 | 10°19 | 1°49 | 25°26 | S 17 |
| S 18 | 23 48 24 | 25°12'52 | 20°41 | 14°23 | 11° 4 | 25° 3 | 11°16 | 9°12 | 22°57 | 25° 9 | 4°36 | 9°49 | 10°16 | 1°56 | 25°30 | S 18 |
| M19 | 23 52 20 | 26°11'36 | 5♒12 | 16°12 | 11°57 | 25°39 | 11°28 | 9°12 | 22°58 | 25° 8 | 4°37 | 9°44 | 10°13 | 2° 2 | 25°35 | M19 |
| T 20 | 23 56 17 | 27°10'22 | 19°53 | 18° 2 | 12°50 | 26°15 | 11°41 | 9°13 | 22°58 | 25° 6 | 4°38 | 9°37 | 10°10 | 2° 9 | 25°40 | T 20 |
| W21 | 0 0 13 | 28° 9'10 | 4♓39 | 19°52 | 13°42 | 26°51 | 11°54 | 9°13 | 22°59 | 25° 4 | 4°39 | 9°28 | 10° 7 | 2°16 | 25°44 | W21 |
| T 22 | 0 4 10 | 29° 8'00 | 19°22 | 21°42 | 14°33 | 27°26 | 12° 7 | 9°14 | 22°59 | 25° 3 | 4°41 | 9°17 | 10° 4 | 2°23 | 25°48 | T 22 |
| F 23 | 0 8 6 | 0♎ 6'51 | 3♈54 | 23°32 | 15°24 | 28° 2 | 12°19 | 9°15 | 22°59 | 25° 1 | 4°42 | 9° 7 | 10° 0 | 2°29 | 25°53 | F 23 |
| S 24 | 0 12 3 | 1° 5'45 | 18° 7 | 25°22 | 16°13 | 28°37 | 12°32 | 9°16 | 23° 0 | 24°59 | 4°43 | 8°57 | 9°57 | 2°36 | 25°57 | S 24 |
| S 25 | 0 16 0 | 2° 4'41 | 1♉56 | 27°11 | 17° 3 | 29°13 | 12°45 | 9°17 | 23° 0 | 24°58 | 4°44 | 8°50 | 9°54 | 2°43 | 26° 1 | S 25 |
| M26 | 0 19 56 | 3° 3'39 | 15°20 | 29° 0 | 17°51 | 29°48 | 12°57 | 9°19 | 23° 0 | 24°56 | 4°45 | 8°45 | 9°51 | 2°49 | 26° 5 | M26 |
| T 27 | 0 23 53 | 4° 2'39 | 28°19 | 0♎48 | 18°38 | 0♌23 | 13°10 | 9°20 | 23° 0 | 24°54 | 4°46 | 8°43 | 9°48 | 2°56 | 26° 9 | T 27 |
| W28 | 0 27 49 | 5° 1'42 | 10♊54 | 2°36 | 19°25 | 0°58 | 13°22 | 9°21 | 23°R 0 | 24°53 | 4°47 | 8°D42 | 9°44 | 3° 3 | 26°13 | W28 |
| T 29 | 0 31 46 | 6° 0'47 | 23°10 | 4°23 | 20°11 | 1°33 | 13°35 | 9°23 | 23° 0 | 24°51 | 4°48 | 8°43 | 9°41 | 3° 9 | 26°17 | T 29 |
| F 30 | 0 35 42 | 6♎59'54 | 5♋13 | 6♎ 9 | 20♏56 | 2♌ 8 | 13♍47 | 9♑24 | 23♊ 0 | 24♓50 | 4♌49 | 8°R44 | 9♐38 | 3♌16 | 26♋20 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n20 | 22n20 | 0s18 | 13n31 | 0s50 | 11s34 | 2s 6 | 23n19 | 0n39 | 9n38 | 0n58 | 22s50 | 0n19 | 23n22 | 0n 6 | 2s59 | 1s21 | 24n10 | 5n 5 | 22s13 | 22s 9 | 16n23 | 14n53 | 6s33 |
| F 2 | 7 59 | 22 6 | 1 21 | 13 37 | 0 33 | 12 2 | 2 12 | 23 16 | 0 40 | 9 33 | 0 58 | 22 51 | 0 19 | 23 22 | 0 6 | 3 0 | 1 21 | 24 10 | 5 5 | 22 13 | 22 9 | 16 21 | 14 52 | 6 33 |
| S 3 | 7 37 | 20 52 | 2 19 | 13 40 | 0 16 | 12 29 | 2 17 | 23 12 | 0 40 | 9 28 | 0 58 | 22 51 | 0 19 | 23 23 | 0 6 | 3 0 | 1 21 | 24 10 | 5 6 | 22 12 | 22 8 | 16 19 | 14 50 | 6 34 |
| S 4 | 7 14 | 18 43 | 3 11 | 13 39 | 0 0 | 12 56 | 2 23 | 23 9 | 0 41 | 9 23 | 0 58 | 22 51 | 0 19 | 23 23 | 0 6 | 3 1 | 1 21 | 24 10 | 5 6 | 22 12 | 22 8 | 16 17 | 14 49 | 6 34 |
| M 5 | 6 52 | 15 48 | 3 55 | 13 35 | 0n14 | 13 23 | 2 29 | 23 5 | 0 42 | 9 18 | 0 58 | 22 51 | 0 18 | 23 23 | 0 6 | 3 2 | 1 21 | 24 10 | 5 6 | 22 11 | 22 7 | 16 15 | 14 47 | 6 35 |
| T 6 | 6 30 | 12 14 | 4 28 | 13 27 | 0 28 | 13 50 | 2 35 | 23 1 | 0 43 | 9 14 | 0 58 | 22 51 | 0 18 | 23 23 | 0 6 | 3 2 | 1 21 | 24 9 | 5 6 | 22 9 | 22 7 | 16 13 | 14 46 | 6 35 |
| W 7 | 6 7 | 8 9 | 4 50 | 13 15 | 0 41 | 14 16 | 2 41 | 22 57 | 0 44 | 9 9 | 0 58 | 22 51 | 0 18 | 23 23 | 0 6 | 3 3 | 1 21 | 24 9 | 5 6 | 22 8 | 22 7 | 16 11 | 14 45 | 6 36 |
| T 8 | 5 45 | 3 43 | 5 0 | 13 0 | 0 53 | 14 42 | 2 47 | 22 53 | 0 45 | 9 4 | 0 58 | 22 52 | 0 18 | 23 23 | 0 6 | 3 4 | 1 21 | 24 9 | 5 6 | 22 6 | 22 6 | 16 9 | 14 43 | 6 36 |
| F 9 | 5 22 | 0s56 | 4 55 | 12 42 | 1 4 | 15 8 | 2 52 | 22 48 | 0 46 | 8 59 | 0 58 | 22 52 | 0 18 | 23 23 | 0 6 | 3 4 | 1 21 | 24 9 | 5 7 | 22 4 | 22 6 | 16 7 | 14 42 | 6 37 |
| S 10 | 4 59 | 5 36 | 4 36 | 12 20 | 1 13 | 15 33 | 2 58 | 22 44 | 0 47 | 8 54 | 0 58 | 22 52 | 0 18 | 23 23 | 0 6 | 3 5 | 1 21 | 24 9 | 5 7 | 22 2 | 22 5 | 16 5 | 14 41 | 6 37 |
| S 11 | 4 36 | 10 5 | 4 4 | 11 55 | 1 21 | 15 58 | 3 4 | 22 39 | 0 48 | 8 49 | 0 58 | 22 52 | 0 18 | 23 23 | 0 6 | 3 6 | 1 21 | 24 8 | 5 7 | 22 0 | 22 5 | 16 3 | 14 39 | 6 38 |
| M12 | 4 13 | 14 12 | 3 18 | 11 27 | 1 29 | 16 23 | 3 10 | 22 34 | 0 48 | 8 45 | 0 59 | 22 52 | 0 18 | 23 23 | 0 6 | 3 6 | 1 21 | 24 8 | 5 7 | 21 59 | 22 4 | 16 1 | 14 38 | 6 38 |
| T 13 | 3 50 | 17 42 | 2 22 | 10 57 | 1 35 | 16 48 | 3 16 | 22 29 | 0 49 | 8 40 | 0 59 | 22 52 | 0 18 | 23 23 | 0 6 | 3 7 | 1 21 | 24 8 | 5 7 | 21 58 | 22 4 | 15 59 | 14 36 | 6 39 |
| W14 | 3 27 | 20 20 | 1 17 | 10 24 | 1 40 | 17 12 | 3 22 | 22 24 | 0 50 | 8 35 | 0 59 | 22 52 | 0 17 | 23 23 | 0 6 | 3 8 | 1 21 | 24 8 | 5 7 | 21 58 | 22 3 | 15 57 | 14 35 | 6 39 |
| T 15 | 3 4 | 21 53 | 0 6 | 9 48 | 1 44 | 17 35 | 3 28 | 22 19 | 0 51 | 8 30 | 0 59 | 22 52 | 0 17 | 23 23 | 0 6 | 3 8 | 1 21 | 24 8 | 5 8 | 21 58 | 22 3 | 15 55 | 14 34 | 6 40 |
| F 16 | 2 41 | 22 10 | 1n 6 | 9 11 | 1 47 | 17 59 | 3 34 | 22 14 | 0 52 | 8 25 | 0 59 | 22 52 | 0 17 | 23 23 | 0 6 | 3 9 | 1 21 | 24 8 | 5 8 | 21 58 | 22 2 | 15 53 | 14 32 | 6 40 |
| S 17 | 2 18 | 21 4 | 2 16 | 8 32 | 1 49 | 18 22 | 3 39 | 22 8 | 0 53 | 8 21 | 0 59 | 22 53 | 0 17 | 23 23 | 0 6 | 3 10 | 1 21 | 24 8 | 5 8 | 21 58 | 22 2 | 15 51 | 14 31 | 6 41 |
| S 18 | 1 54 | 18 37 | 3 18 | 7 51 | 1 51 | 18 44 | 3 45 | 22 3 | 0 54 | 8 16 | 0 59 | 22 53 | 0 17 | 23 24 | 0 6 | 3 10 | 1 21 | 24 7 | 5 8 | 21 58 | 22 2 | 15 49 | 14 30 | 6 41 |
| M19 | 1 31 | 14 58 | 4 9 | 7 9 | 1 51 | 19 6 | 3 51 | 21 57 | 0 55 | 8 11 | 0 59 | 22 53 | 0 17 | 23 24 | 0 6 | 3 11 | 1 21 | 24 7 | 5 8 | 21 57 | 22 1 | 15 47 | 14 28 | 6 42 |
| T 20 | 1 8 | 10 22 | 4 44 | 6 26 | 1 51 | 19 28 | 3 57 | 21 51 | 0 56 | 8 6 | 0 59 | 22 53 | 0 17 | 23 24 | 0 6 | 3 12 | 1 21 | 24 7 | 5 8 | 21 56 | 22 1 | 15 45 | 14 27 | 6 42 |
| W21 | 0 44 | 5 9 | 5 1 | 5 42 | 1 50 | 19 49 | 4 2 | 21 45 | 0 57 | 8 1 | 0 59 | 22 53 | 0 17 | 23 24 | 0 6 | 3 12 | 1 21 | 24 7 | 5 9 | 21 54 | 22 0 | 15 43 | 14 26 | 6 43 |
| T 22 | 0 21 | 0n21 | 4 57 | 4 57 | 1 48 | 20 10 | 4 8 | 21 39 | 0 58 | 7 57 | 0 59 | 22 53 | 0 17 | 23 24 | 0 6 | 3 13 | 1 21 | 24 7 | 5 9 | 21 53 | 22 0 | 15 41 | 14 24 | 6 44 |
| F 23 | 0s 3 | 5 45 | 4 35 | 4 12 | 1 46 | 20 31 | 4 13 | 21 33 | 0 59 | 7 52 | 0 59 | 22 53 | 0 16 | 23 24 | 0 6 | 3 14 | 1 21 | 24 7 | 5 9 | 21 51 | 21 59 | 15 39 | 14 23 | 6 44 |
| S 24 | 0 26 | 10 44 | 3 55 | 3 26 | 1 44 | 20 51 | 4 19 | 21 27 | 1 0 | 7 47 | 0 59 | 22 53 | 0 16 | 23 24 | 0 6 | 3 14 | 1 21 | 24 7 | 5 9 | 21 50 | 21 59 | 15 37 | 14 22 | 6 45 |
| S 25 | 0 50 | 15 1 | 3 2 | 2 39 | 1 40 | 21 10 | 4 25 | 21 20 | 1 1 | 7 42 | 1 0 | 22 53 | 0 16 | 23 24 | 0 6 | 3 15 | 1 21 | 24 7 | 5 9 | 21 49 | 21 58 | 15 35 | 14 20 | 6 45 |
| M26 | 1 13 | 18 23 | 2 1 | 1 53 | 1 37 | 21 30 | 4 30 | 21 14 | 1 2 | 7 37 | 1 0 | 22 53 | 0 16 | 23 24 | 0 6 | 3 16 | 1 21 | 24 7 | 5 10 | 21 48 | 21 58 | 15 33 | 14 19 | 6 46 |
| T 27 | 1 37 | 20 43 | 0 55 | 1 6 | 1 33 | 21 48 | 4 35 | 21 7 | 1 3 | 7 33 | 1 0 | 22 53 | 0 16 | 23 24 | 0 6 | 3 16 | 1 21 | 24 7 | 5 10 | 21 47 | 21 57 | 15 31 | 14 18 | 6 47 |
| W28 | 2 0 | 21 55 | 0s12 | 0 19 | 1 28 | 22 6 | 4 41 | 21 0 | 1 4 | 7 28 | 1 0 | 22 53 | 0 16 | 23 24 | 0 6 | 3 17 | 1 21 | 24 7 | 5 10 | 21 47 | 21 57 | 15 29 | 14 16 | 6 47 |
| T 29 | 2 24 | 22 2 | 1 17 | 0s28 | 1 24 | 22 24 | 4 46 | 20 54 | 1 4 | 7 23 | 1 0 | 22 53 | 0 16 | 23 24 | 0 6 | 3 17 | 1 21 | 24 6 | 5 10 | 21 47 | 21 56 | 15 27 | 14 15 | 6 48 |
| F 30 | 2s47 | 21n 6 | 2s17 | 1s15 | 1n19 | 22s41 | 4s51 | 20n47 | 1n 5 | 7n19 | 1n 0 | 22s53 | 0n16 | 23n24 | 0n 6 | 3s18 | 1s21 | 24n 6 | 5n10 | 21s48 | 21s56 | 15n25 | 14n14 | 6s49 |

Julian Day Number = 2340389.5, Delta T = 15.92 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'31, Lahiri = 19°36'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## OCTOBER 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 0 39 39 | 7♎59'04 | 17♋ 6 | 7♎54 | 21♏40 | 2♌43 | 14♍ 0 | 9♑26 | 23°R 0 | 24°R48 | 4♌50 | 8°R43 | 9♐35 | 3♌23 | 26♋24 | S 1 |
| S 2 | 0 43 35 | 8°58'16 | 28°56 | 9°39 | 22°24 | 3°18 | 14°12 | 9°28 | 23♊ 0 | 24♓46 | 4°51 | 8♐41 | 9°32 | 3°30 | 26°28 | S 2 |
| M 3 | 0 47 32 | 9°57'30 | 10♌48 | 11°22 | 23° 6 | 3°52 | 14°25 | 9°30 | 23° 0 | 24°45 | 4°52 | 8°36 | 9°29 | 3°36 | 26°31 | M 3 |
| T 4 | 0 51 29 | 10°56'46 | 22°45 | 13° 6 | 23°47 | 4°27 | 14°37 | 9°32 | 22°59 | 24°43 | 4°52 | 8°29 | 9°25 | 3°43 | 26°35 | T 4 |
| W 5 | 0 55 25 | 11°56'05 | 4♍52 | 14°48 | 24°27 | 5° 1 | 14°49 | 9°34 | 22°59 | 24°42 | 4°53 | 8°21 | 9°22 | 3°50 | 26°38 | W 5 |
| T 6 | 0 59 22 | 12°55'26 | 17°10 | 16°29 | 25° 6 | 5°35 | 15° 1 | 9°36 | 22°59 | 24°40 | 4°54 | 8°11 | 9°19 | 3°56 | 26°41 | T 6 |
| F 7 | 1 3 18 | 13°54'49 | 29°42 | 18°10 | 25°44 | 6° 9 | 15°14 | 9°38 | 22°58 | 24°38 | 4°55 | 8° 0 | 9°16 | 4° 3 | 26°44 | F 7 |
| S 8 | 1 7 15 | 14°54'14 | 12♎28 | 19°50 | 26°21 | 6°43 | 15°26 | 9°41 | 22°58 | 24°37 | 4°56 | 7°51 | 9°13 | 4°10 | 26°47 | S 8 |
| S 9 | 1 11 11 | 15°53'41 | 25°27 | 21°30 | 26°56 | 7°17 | 15°38 | 9°43 | 22°57 | 24°35 | 4°56 | 7°42 | 9° 9 | 4°16 | 26°50 | S 9 |
| M10 | 1 15 8 | 16°53'10 | 8♏39 | 23° 8 | 27°31 | 7°50 | 15°50 | 9°46 | 22°57 | 24°34 | 4°57 | 7°37 | 9° 6 | 4°23 | 26°53 | M10 |
| T 11 | 1 19 4 | 17°52'41 | 22° 3 | 24°46 | 28° 3 | 8°24 | 16° 2 | 9°48 | 22°56 | 24°32 | 4°58 | 7°33 | 9° 3 | 4°30 | 26°56 | T 11 |
| W12 | 1 23 1 | 18°52'15 | 5♐37 | 26°23 | 28°35 | 8°57 | 16°14 | 9°51 | 22°55 | 24°31 | 4°58 | 7°D32 | 9° 0 | 4°36 | 26°59 | W12 |
| T 13 | 1 26 57 | 19°51'50 | 19°20 | 28° 0 | 29° 5 | 9°30 | 16°26 | 9°54 | 22°55 | 24°29 | 4°59 | 7°32 | 8°57 | 4°43 | 27° 2 | T 13 |
| F 14 | 1 30 54 | 20°51'26 | 3♑12 | 29°36 | 29°33 | 10° 4 | 16°38 | 9°57 | 22°54 | 24°28 | 5° 0 | 7°34 | 8°54 | 4°50 | 27° 4 | F 14 |
| S 15 | 1 34 51 | 21°51'05 | 17°13 | 1♏11 | 29°59 | 10°36 | 16°49 | 10° 0 | 22°53 | 24°27 | 5° 0 | 7°R35 | 8°50 | 4°57 | 27° 7 | S 15 |
| S 16 | 1 38 47 | 22°50'45 | 1♒22 | 2°46 | 0♐25 | 11° 9 | 17° 1 | 10° 3 | 22°52 | 24°25 | 5° 1 | 7°34 | 8°47 | 5° 3 | 27° 9 | S 16 |
| M17 | 1 42 44 | 23°50'27 | 15°37 | 4°20 | 0°48 | 11°42 | 17°13 | 10° 6 | 22°51 | 24°24 | 5° 1 | 7°32 | 8°44 | 5°10 | 27°11 | M17 |
| T 18 | 1 46 40 | 24°50'10 | 29°56 | 5°53 | 1°10 | 12°14 | 17°24 | 10° 9 | 22°50 | 24°22 | 5° 2 | 7°28 | 8°41 | 5°17 | 27°13 | T 18 |
| W19 | 1 50 37 | 25°49'55 | 14♓15 | 7°26 | 1°30 | 12°47 | 17°36 | 10°13 | 22°49 | 24°21 | 5° 2 | 7°23 | 8°38 | 5°23 | 27°16 | W19 |
| T 20 | 1 54 33 | 26°49'42 | 28°30 | 8°59 | 1°48 | 13°19 | 17°47 | 10°16 | 22°48 | 24°20 | 5° 3 | 7°16 | 8°35 | 5°30 | 27°18 | T 20 |
| F 21 | 1 58 30 | 27°49'31 | 12♈35 | 10°31 | 2° 4 | 13°51 | 17°58 | 10°20 | 22°47 | 24°18 | 5° 3 | 7°10 | 8°31 | 5°37 | 27°19 | F 21 |
| S 22 | 2 2 26 | 28°49'21 | 26°27 | 12° 2 | 2°17 | 14°23 | 18°10 | 10°23 | 22°46 | 24°17 | 5° 4 | 7° 4 | 8°28 | 5°43 | 27°21 | S 22 |
| S 23 | 2 6 23 | 29°49'14 | 10♉ 0 | 13°33 | 2°29 | 14°55 | 18°21 | 10°27 | 22°45 | 24°16 | 5° 4 | 7° 0 | 8°25 | 5°50 | 27°23 | S 23 |
| M24 | 2 10 20 | 0♏49'08 | 23°14 | 15° 3 | 2°39 | 15°26 | 18°32 | 10°31 | 22°43 | 24°14 | 5° 4 | 6°57 | 8°22 | 5°57 | 27°25 | M24 |
| T 25 | 2 14 16 | 1°49'05 | 6♊ 7 | 16°33 | 2°46 | 15°58 | 18°43 | 10°35 | 22°42 | 24°13 | 5° 5 | 6°D56 | 8°19 | 6° 4 | 27°26 | T 25 |
| W26 | 2 18 13 | 2°49'04 | 18°41 | 18° 2 | 2°51 | 16°29 | 18°54 | 10°38 | 22°41 | 24°12 | 5° 5 | 6°57 | 8°15 | 6°10 | 27°28 | W26 |
| T 27 | 2 22 9 | 3°49'05 | 0♋58 | 19°30 | 2°54 | 17° 0 | 19° 5 | 10°42 | 22°39 | 24°11 | 5° 5 | 6°58 | 8°12 | 6°17 | 27°29 | T 27 |
| F 28 | 2 26 6 | 4°49'08 | 13° 2 | 20°59 | 2°R54 | 17°31 | 19°16 | 10°47 | 22°38 | 24°10 | 5° 6 | 7° 0 | 8° 9 | 6°24 | 27°30 | F 28 |
| S 29 | 2 30 2 | 5°49'13 | 24°57 | 22°26 | 2°52 | 18° 2 | 19°27 | 10°51 | 22°36 | 24° 8 | 5° 6 | 7° 2 | 8° 6 | 6°30 | 27°31 | S 29 |
| S 30 | 2 33 59 | 6°49'20 | 6♌49 | 23°53 | 2°48 | 18°33 | 19°38 | 10°55 | 22°35 | 24° 7 | 5° 6 | 7°R 2 | 8° 3 | 6°37 | 27°32 | S 30 |
| M31 | 2 37 55 | 7♏49'29 | 18♌41 | 25♏19 | 2♐41 | 19♌ 3 | 19♍48 | 10♑59 | 22♊33 | 24♓ 6 | 5♌ 6 | 7♐ 1 | 8♐ 0 | 6♌44 | 27♋33 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 3s10 | 19n14 | 3s10 | 2s 1 | 1n13 | 22s58 | 4s56 | 20n40 | 1n 6 | 7n14 | 1n 0 | 22s53 | 0n16 | 23n24 | 0n 6 | 3s19 | 1s21 | 24n 6 | 5n10 | 21s47 | 21s55 | 15n23 | 14n12 | 6s49 |
| S 2 | 3 34 | 16 34 | 3 55 | 2 47 | 1 8 | 23 14 | 5 1 | 20 33 | 1 7 | 7 9 | 1 0 | 22 53 | 0 15 | 23 24 | 0 6 | 3 19 | 1 21 | 24 6 | 5 11 | 21 47 | 21 55 | 15 21 | 14 11 | 6 50 |
| M 3 | 3 57 | 13 13 | 4 30 | 3 33 | 1 2 | 23 30 | 5 6 | 20 26 | 1 8 | 7 4 | 1 0 | 22 53 | 0 15 | 23 24 | 0 6 | 3 20 | 1 21 | 24 6 | 5 11 | 21 46 | 21 54 | 15 19 | 14 10 | 6 50 |
| T 4 | 4 20 | 9 19 | 4 54 | 4 19 | 0 56 | 23 45 | 5 10 | 20 18 | 1 9 | 7 0 | 1 1 | 22 53 | 0 15 | 23 24 | 0 6 | 3 21 | 1 21 | 24 6 | 5 11 | 21 45 | 21 54 | 15 17 | 14 9 | 6 51 |
| W 5 | 4 44 | 5 1 | 5 4 | 5 5 | 0 50 | 24 0 | 5 15 | 20 11 | 1 10 | 6 55 | 1 1 | 22 53 | 0 15 | 23 24 | 0 6 | 3 21 | 1 21 | 24 6 | 5 11 | 21 44 | 21 53 | 15 15 | 14 7 | 6 52 |
| T 6 | 5 7 | 0 27 | 5 1 | 5 49 | 0 43 | 24 14 | 5 19 | 20 4 | 1 11 | 6 51 | 1 1 | 22 53 | 0 15 | 23 24 | 0 6 | 3 22 | 1 21 | 24 6 | 5 11 | 21 42 | 21 53 | 15 13 | 14 6 | 6 52 |
| F 7 | 5 30 | 4s13 | 4 44 | 6 34 | 0 37 | 24 27 | 5 23 | 19 56 | 1 12 | 6 46 | 1 1 | 22 53 | 0 15 | 23 24 | 0 6 | 3 23 | 1 21 | 24 6 | 5 12 | 21 41 | 21 53 | 15 11 | 14 5 | 6 53 |
| S 8 | 5 53 | 8 48 | 4 12 | 7 18 | 0 30 | 24 40 | 5 28 | 19 49 | 1 13 | 6 41 | 1 1 | 22 53 | 0 15 | 23 24 | 0 6 | 3 23 | 1 21 | 24 6 | 5 12 | 21 39 | 21 52 | 15 9 | 14 4 | 6 54 |
| S 9 | 6 16 | 13 3 | 3 26 | 8 1 | 0 24 | 24 53 | 5 31 | 19 41 | 1 15 | 6 37 | 1 1 | 22 53 | 0 15 | 23 24 | 0 6 | 3 24 | 1 21 | 24 6 | 5 12 | 21 38 | 21 52 | 15 7 | 14 2 | 6 54 |
| M10 | 6 39 | 16 46 | 2 29 | 8 44 | 0 17 | 25 4 | 5 35 | 19 33 | 1 16 | 6 32 | 1 1 | 22 52 | 0 15 | 23 24 | 0 6 | 3 24 | 1 21 | 24 6 | 5 12 | 21 37 | 21 51 | 15 5 | 14 1 | 6 55 |
| T 11 | 7 2 | 19 38 | 1 23 | 9 27 | 0 10 | 25 15 | 5 39 | 19 26 | 1 17 | 6 28 | 1 1 | 22 52 | 0 15 | 23 24 | 0 6 | 3 25 | 1 21 | 24 6 | 5 12 | 21 36 | 21 51 | 15 3 | 14 0 | 6 56 |
| W12 | 7 24 | 21 27 | 0 10 | 10 9 | 0 4 | 25 26 | 5 42 | 19 18 | 1 18 | 6 23 | 1 1 | 22 52 | 0 14 | 23 24 | 0 6 | 3 25 | 1 21 | 24 6 | 5 13 | 21 36 | 21 50 | 15 1 | 13 59 | 6 56 |
| T 13 | 7 47 | 22 0 | 1n 3 | 10 50 | 0s 3 | 25 36 | 5 45 | 19 10 | 1 19 | 6 19 | 1 2 | 22 52 | 0 14 | 23 24 | 0 6 | 3 26 | 1 21 | 24 6 | 5 13 | 21 36 | 21 50 | 14 59 | 13 58 | 6 57 |
| F 14 | 8 9 | 21 12 | 2 14 | 11 30 | 0 10 | 25 45 | 5 48 | 19 2 | 1 20 | 6 14 | 1 2 | 22 52 | 0 14 | 23 24 | 0 7 | 3 27 | 1 21 | 24 6 | 5 13 | 21 36 | 21 49 | 14 57 | 13 56 | 6 58 |
| S 15 | 8 32 | 19 6 | 3 18 | 12 10 | 0 17 | 25 54 | 5 51 | 18 54 | 1 21 | 6 10 | 1 2 | 22 52 | 0 14 | 23 24 | 0 7 | 3 27 | 1 21 | 24 6 | 5 13 | 21 37 | 21 49 | 14 55 | 13 55 | 6 59 |
| S 16 | 8 54 | 15 49 | 4 10 | 12 49 | 0 24 | 26 1 | 5 53 | 18 46 | 1 22 | 6 5 | 1 2 | 22 52 | 0 14 | 23 24 | 0 7 | 3 28 | 1 21 | 24 7 | 5 14 | 21 37 | 21 48 | 14 53 | 13 54 | 6 59 |
| M17 | 9 16 | 11 36 | 4 47 | 13 28 | 0 31 | 26 9 | 5 55 | 18 38 | 1 23 | 6 1 | 1 2 | 22 52 | 0 14 | 23 24 | 0 7 | 3 28 | 1 21 | 24 7 | 5 14 | 21 36 | 21 48 | 14 50 | 13 53 | 7 0 |
| T 18 | 9 38 | 6 44 | 5 7 | 14 6 | 0 37 | 26 15 | 5 57 | 18 30 | 1 24 | 5 56 | 1 2 | 22 52 | 0 14 | 23 24 | 0 7 | 3 29 | 1 21 | 24 7 | 5 14 | 21 36 | 21 47 | 14 48 | 13 52 | 7 1 |
| W19 | 10 0 | 1 29 | 5 7 | 14 43 | 0 44 | 26 21 | 5 59 | 18 22 | 1 25 | 5 52 | 1 2 | 22 51 | 0 14 | 23 24 | 0 7 | 3 29 | 1 21 | 24 7 | 5 14 | 21 35 | 21 47 | 14 46 | 13 51 | 7 1 |
| T 20 | 10 21 | 3n49 | 4 49 | 15 19 | 0 51 | 26 26 | 6 0 | 18 14 | 1 26 | 5 48 | 1 3 | 22 51 | 0 14 | 23 24 | 0 7 | 3 30 | 1 21 | 24 7 | 5 14 | 21 34 | 21 46 | 14 44 | 13 50 | 7 2 |
| F 21 | 10 43 | 8 51 | 4 13 | 15 54 | 0 57 | 26 30 | 6 1 | 18 5 | 1 27 | 5 43 | 1 3 | 22 51 | 0 14 | 23 23 | 0 7 | 3 30 | 1 21 | 24 7 | 5 15 | 21 32 | 21 46 | 14 42 | 13 49 | 7 3 |
| S 22 | 11 4 | 13 22 | 3 22 | 16 29 | 1 4 | 26 33 | 6 1 | 17 57 | 1 28 | 5 39 | 1 3 | 22 51 | 0 13 | 23 23 | 0 7 | 3 31 | 1 21 | 24 7 | 5 15 | 21 32 | 21 45 | 14 40 | 13 48 | 7 4 |
| S 23 | 11 26 | 17 4 | 2 21 | 17 3 | 1 10 | 26 36 | 6 2 | 17 49 | 1 30 | 5 35 | 1 3 | 22 51 | 0 13 | 23 23 | 0 7 | 3 31 | 1 21 | 24 7 | 5 15 | 21 31 | 21 45 | 14 38 | 13 47 | 7 4 |
| M24 | 11 47 | 19 48 | 1 14 | 17 36 | 1 17 | 26 37 | 6 1 | 17 41 | 1 31 | 5 31 | 1 3 | 22 50 | 0 13 | 23 23 | 0 7 | 3 32 | 1 21 | 24 7 | 5 15 | 21 30 | 21 44 | 14 36 | 13 46 | 7 5 |
| T 25 | 12 7 | 21 26 | 0 4 | 18 8 | 1 23 | 26 38 | 6 1 | 17 32 | 1 32 | 5 26 | 1 3 | 22 50 | 0 13 | 23 23 | 0 7 | 3 32 | 1 21 | 24 7 | 5 15 | 21 30 | 21 44 | 14 34 | 13 45 | 7 6 |
| W26 | 12 28 | 21 56 | 1s 4 | 18 39 | 1 29 | 26 38 | 5 59 | 17 24 | 1 33 | 5 22 | 1 3 | 22 50 | 0 13 | 23 23 | 0 7 | 3 33 | 1 21 | 24 8 | 5 16 | 21 30 | 21 43 | 14 32 | 13 44 | 7 6 |
| T 27 | 12 49 | 21 21 | 2 8 | 19 9 | 1 35 | 26 37 | 5 58 | 17 16 | 1 34 | 5 18 | 1 4 | 22 50 | 0 13 | 23 23 | 0 7 | 3 33 | 1 21 | 24 8 | 5 16 | 21 31 | 21 43 | 14 30 | 13 43 | 7 7 |
| F 28 | 13 9 | 19 46 | 3 5 | 19 39 | 1 40 | 26 35 | 5 55 | 17 7 | 1 35 | 5 14 | 1 4 | 22 50 | 0 13 | 23 23 | 0 7 | 3 34 | 1 21 | 24 8 | 5 16 | 21 31 | 21 42 | 14 28 | 13 42 | 7 8 |
| S 29 | 13 29 | 17 21 | 3 53 | 20 7 | 1 46 | 26 32 | 5 53 | 16 59 | 1 36 | 5 10 | 1 4 | 22 49 | 0 13 | 23 23 | 0 7 | 3 34 | 1 21 | 24 8 | 5 16 | 21 31 | 21 42 | 14 26 | 13 41 | 7 9 |
| S 30 | 13 49 | 14 13 | 4 31 | 20 34 | 1 51 | 26 28 | 5 49 | 16 50 | 1 38 | 5 6 | 1 4 | 22 49 | 0 13 | 23 23 | 0 7 | 3 35 | 1 21 | 24 8 | 5 16 | 21 31 | 21 41 | 14 24 | 13 40 | 7 9 |
| M31 | 14s 8 | 10n32 | 4s58 | 21s 1 | 1s57 | 26s22 | 5s45 | 16n42 | 1n39 | 5n 2 | 1n 4 | 22s49 | 0n13 | 23n23 | 0n 7 | 3s35 | 1s21 | 24n 8 | 5n17 | 21s31 | 21s41 | 14n21 | 13n39 | 7s10 |

Julian Day Number = 2340419.5, Delta T = 15.89 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'35, Lahiri = 19°36'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## NOVEMBER 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 41 52 | 8♏49'40 | 0♍40 | 26♏45 | 2°R32 | 19♌33 | 19♍59 | 11♑ 4 | 22°R32 | 24°R 5 | 5♌ 6 | 6°R59 | 7♐56 | 6♌50 | 27♋34 | T 1 |
| W 2 | 2 45 49 | 9°49'53 | 12°49 | 28°10 | 2♐21 | 20° 3 | 20° 9 | 11° 8 | 22♊30 | 24♓ 4 | 5° 6 | 6♐56 | 7°53 | 6°57 | 27°35 | W 2 |
| T 3 | 2 49 45 | 10°50'09 | 25°12 | 29°35 | 2° 7 | 20°33 | 20°20 | 11°13 | 22°28 | 24° 3 | 5° 7 | 6°52 | 7°50 | 7° 4 | 27°35 | T 3 |
| F 4 | 2 53 42 | 11°50'26 | 7♎51 | 0♐58 | 1°50 | 21° 3 | 20°30 | 11°17 | 22°26 | 24° 2 | 5° 7 | 6°48 | 7°47 | 7°11 | 27°36 | F 4 |
| S 5 | 2 57 38 | 12°50'45 | 20°50 | 2°21 | 1°32 | 21°32 | 20°40 | 11°22 | 22°25 | 24° 1 | 5° 7 | 6°44 | 7°44 | 7°17 | 27°36 | S 5 |
| S 6 | 3 1 35 | 13°51'06 | 4♏ 7 | 3°42 | 1°11 | 22° 2 | 20°50 | 11°27 | 22°23 | 24° 0 | 5°R 7 | 6°41 | 7°41 | 7°24 | 27°37 | S 6 |
| M 7 | 3 5 31 | 14°51'29 | 17°41 | 5° 3 | 0°47 | 22°31 | 21° 0 | 11°32 | 22°21 | 23°59 | 5° 7 | 6°39 | 7°37 | 7°31 | 27°37 | M 7 |
| T 8 | 3 9 28 | 15°51'54 | 1♐30 | 6°23 | 0°22 | 23° 0 | 21°10 | 11°37 | 22°19 | 23°58 | 5° 7 | 6°D38 | 7°34 | 7°37 | 27°37 | T 8 |
| W 9 | 3 13 24 | 16°52'20 | 15°31 | 7°41 | 29♏55 | 23°28 | 21°20 | 11°42 | 22°17 | 23°58 | 5° 6 | 6°38 | 7°31 | 7°44 | 27°R37 | W 9 |
| T 10 | 3 17 21 | 17°52'48 | 29°41 | 8°58 | 29°26 | 23°57 | 21°29 | 11°47 | 22°15 | 23°57 | 5° 6 | 6°39 | 7°28 | 7°51 | 27°37 | T 10 |
| F 11 | 3 21 18 | 18°53'17 | 13♑55 | 10°13 | 28°55 | 24°25 | 21°39 | 11°52 | 22°13 | 23°56 | 5° 6 | 6°40 | 7°25 | 7°58 | 27°37 | F 11 |
| S 12 | 3 25 14 | 19°53'47 | 28°11 | 11°27 | 28°23 | 24°53 | 21°49 | 11°57 | 22°11 | 23°55 | 5° 6 | 6°41 | 7°21 | 8° 4 | 27°37 | S 12 |
| S 13 | 3 29 11 | 20°54'19 | 12♒25 | 12°39 | 27°50 | 25°20 | 21°58 | 12° 2 | 22° 9 | 23°54 | 5° 6 | 6°42 | 7°18 | 8°11 | 27°36 | S 13 |
| M14 | 3 33 7 | 21°54'51 | 26°35 | 13°48 | 27°15 | 25°48 | 22° 7 | 12° 7 | 22° 7 | 23°54 | 5° 6 | 6°R42 | 7°15 | 8°18 | 27°36 | M14 |
| T 15 | 3 37 4 | 22°55'25 | 10♓40 | 14°55 | 26°40 | 26°15 | 22°16 | 12°13 | 22° 5 | 23°53 | 5° 5 | 6°42 | 7°12 | 8°24 | 27°35 | T 15 |
| W16 | 3 41 0 | 23°56'01 | 24°37 | 15°58 | 26° 4 | 26°42 | 22°25 | 12°18 | 22° 3 | 23°52 | 5° 5 | 6°40 | 7° 9 | 8°31 | 27°35 | W16 |
| T 17 | 3 44 57 | 24°56'37 | 8♈24 | 16°59 | 25°27 | 27° 9 | 22°34 | 12°24 | 22° 1 | 23°52 | 5° 5 | 6°39 | 7° 6 | 8°38 | 27°34 | T 17 |
| F 18 | 3 48 53 | 25°57'15 | 22° 1 | 17°56 | 24°51 | 27°35 | 22°43 | 12°29 | 21°58 | 23°51 | 5° 5 | 6°37 | 7° 2 | 8°44 | 27°33 | F 18 |
| S 19 | 3 52 50 | 26°57'53 | 5♉25 | 18°48 | 24°15 | 28° 2 | 22°52 | 12°35 | 21°56 | 23°51 | 5° 4 | 6°36 | 6°59 | 8°51 | 27°32 | S 19 |
| S 20 | 3 56 47 | 27°58'34 | 18°35 | 19°36 | 23°39 | 28°28 | 23° 0 | 12°41 | 21°54 | 23°50 | 5° 4 | 6°35 | 6°56 | 8°58 | 27°31 | S 20 |
| M21 | 4 0 43 | 28°59'15 | 1♊30 | 20°18 | 23° 3 | 28°53 | 23° 9 | 12°46 | 21°52 | 23°50 | 5° 3 | 6°D35 | 6°53 | 9° 5 | 27°30 | M21 |
| T 22 | 4 4 40 | 29°59'58 | 14°11 | 20°54 | 22°29 | 29°19 | 23°17 | 12°52 | 21°49 | 23°49 | 5° 3 | 6°35 | 6°50 | 9°11 | 27°28 | T 22 |
| W23 | 4 8 36 | 1♐ 0'43 | 26°37 | 21°23 | 21°55 | 29°44 | 23°25 | 12°58 | 21°47 | 23°49 | 5° 3 | 6°35 | 6°46 | 9°18 | 27°27 | W23 |
| T 24 | 4 12 33 | 2° 1'28 | 8♋50 | 21°44 | 21°23 | 0♍ 9 | 23°34 | 13° 4 | 21°45 | 23°48 | 5° 2 | 6°36 | 6°43 | 9°25 | 27°26 | T 24 |
| F 25 | 4 16 29 | 3° 2'15 | 20°53 | 21°57 | 20°53 | 0°33 | 23°42 | 13°10 | 21°42 | 23°48 | 5° 2 | 6°36 | 6°40 | 9°31 | 27°24 | F 25 |
| S 26 | 4 20 26 | 4° 3'04 | 2♌48 | 22°R 0 | 20°24 | 0°58 | 23°49 | 13°16 | 21°40 | 23°48 | 5° 1 | 6°37 | 6°37 | 9°38 | 27°22 | S 26 |
| S 27 | 4 24 22 | 5° 3'54 | 14°39 | 21°53 | 19°57 | 1°22 | 23°57 | 13°22 | 21°37 | 23°47 | 5° 0 | 6°37 | 6°34 | 9°45 | 27°21 | S 27 |
| M28 | 4 28 19 | 6° 4'45 | 26°31 | 21°36 | 19°33 | 1°45 | 24° 5 | 13°28 | 21°35 | 23°47 | 5° 0 | 6°37 | 6°31 | 9°52 | 27°19 | M28 |
| T 29 | 4 32 16 | 7° 5'38 | 8♍28 | 21° 8 | 19°10 | 2° 9 | 24°12 | 13°34 | 21°33 | 23°47 | 4°59 | 6°37 | 6°27 | 9°58 | 27°17 | T 29 |
| W30 | 4 36 12 | 8♐ 6'32 | 20♍35 | 20♐28 | 18♏50 | 2♍32 | 24♍19 | 13♑40 | 21♊30 | 23♓47 | 4♌59 | 6♐37 | 6♐24 | 10♌ 5 | 27♋15 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s28 | 6n24 | 5s12 | 21s26 | 2s 2 | 26s16 | 5s41 | 16n34 | 1n40 | 4n58 | 1n 4 | 22s49 | 0n13 | 23n23 | 0n 7 | 3s35 | 1s21 | 24n 8 | 5n17 | 21s31 | 21s40 | 14n19 | 13n38 | 7s11 |
| W 2 | 14 47 | 1 58 | 5 12 | 21 50 | 2 6 | 26 9 | 5 36 | 16 25 | 1 41 | 4 54 | 1 5 | 22 48 | 0 12 | 23 23 | 0 7 | 3 36 | 1 21 | 24 9 | 5 17 | 21 30 | 21 40 | 14 17 | 13 37 | 7 12 |
| T 3 | 15 6 | 2s38 | 4 58 | 22 13 | 2 11 | 26 0 | 5 30 | 16 17 | 1 42 | 4 50 | 1 5 | 22 48 | 0 12 | 23 23 | 0 7 | 3 36 | 1 21 | 24 9 | 5 17 | 21 30 | 21 39 | 14 15 | 13 36 | 7 12 |
| F 4 | 15 25 | 7 14 | 4 29 | 22 35 | 2 15 | 25 51 | 5 24 | 16 8 | 1 44 | 4 46 | 1 5 | 22 48 | 0 12 | 23 23 | 0 7 | 3 36 | 1 21 | 24 9 | 5 18 | 21 29 | 21 39 | 14 13 | 13 36 | 7 13 |
| S 5 | 15 43 | 11 38 | 3 46 | 22 56 | 2 19 | 25 40 | 5 17 | 16 0 | 1 45 | 4 42 | 1 5 | 22 47 | 0 12 | 23 22 | 0 7 | 3 37 | 1 21 | 24 9 | 5 18 | 21 28 | 21 38 | 14 11 | 13 35 | 7 14 |
| S 6 | 16 1 | 15 34 | 2 50 | 23 16 | 2 22 | 25 28 | 5 9 | 15 52 | 1 46 | 4 38 | 1 5 | 22 47 | 0 12 | 23 22 | 0 7 | 3 37 | 1 21 | 24 9 | 5 18 | 21 28 | 21 38 | 14 9 | 13 34 | 7 14 |
| M 7 | 16 19 | 18 46 | 1 43 | 23 34 | 2 26 | 25 15 | 5 1 | 15 43 | 1 47 | 4 35 | 1 6 | 22 47 | 0 12 | 23 22 | 0 7 | 3 38 | 1 21 | 24 10 | 5 18 | 21 27 | 21 37 | 14 7 | 13 33 | 7 15 |
| T 8 | 16 37 | 20 57 | 0 28 | 23 51 | 2 29 | 25 0 | 4 51 | 15 35 | 1 49 | 4 31 | 1 6 | 22 46 | 0 12 | 23 22 | 0 7 | 3 38 | 1 21 | 24 10 | 5 18 | 21 27 | 21 36 | 14 5 | 13 33 | 7 16 |
| W 9 | 16 54 | 21 53 | 0n49 | 24 7 | 2 31 | 24 45 | 4 42 | 15 27 | 1 50 | 4 27 | 1 6 | 22 46 | 0 12 | 23 22 | 0 7 | 3 38 | 1 21 | 24 10 | 5 19 | 21 27 | 21 36 | 14 3 | 13 32 | 7 17 |
| T 10 | 17 11 | 21 25 | 2 4 | 24 21 | 2 33 | 24 28 | 4 31 | 15 19 | 1 51 | 4 24 | 1 6 | 22 46 | 0 12 | 23 22 | 0 7 | 3 38 | 1 21 | 24 10 | 5 19 | 21 27 | 21 35 | 14 0 | 13 31 | 7 17 |
| F 11 | 17 28 | 19 34 | 3 12 | 24 34 | 2 35 | 24 11 | 4 20 | 15 10 | 1 53 | 4 20 | 1 6 | 22 45 | 0 12 | 23 22 | 0 7 | 3 39 | 1 21 | 24 11 | 5 19 | 21 27 | 21 35 | 13 58 | 13 30 | 7 18 |
| S 12 | 17 44 | 16 31 | 4 8 | 24 46 | 2 36 | 23 52 | 4 8 | 15 2 | 1 54 | 4 16 | 1 6 | 22 45 | 0 12 | 23 22 | 0 7 | 3 39 | 1 20 | 24 11 | 5 19 | 21 28 | 21 34 | 13 56 | 13 30 | 7 19 |
| S 13 | 18 1 | 12 29 | 4 48 | 24 56 | 2 36 | 23 32 | 3 56 | 14 54 | 1 55 | 4 13 | 1 7 | 22 45 | 0 11 | 23 22 | 0 7 | 3 39 | 1 20 | 24 11 | 5 19 | 21 28 | 21 34 | 13 54 | 13 29 | 7 20 |
| M14 | 18 16 | 7 47 | 5 11 | 25 4 | 2 36 | 23 12 | 3 43 | 14 46 | 1 56 | 4 9 | 1 7 | 22 44 | 0 11 | 23 22 | 0 7 | 3 40 | 1 20 | 24 11 | 5 20 | 21 28 | 21 33 | 13 52 | 13 29 | 7 20 |
| T 15 | 18 32 | 2 43 | 5 16 | 25 12 | 2 35 | 22 50 | 3 30 | 14 38 | 1 58 | 4 6 | 1 7 | 22 44 | 0 11 | 23 21 | 0 7 | 3 40 | 1 20 | 24 12 | 5 20 | 21 28 | 21 33 | 13 50 | 13 28 | 7 21 |
| W16 | 18 47 | 2n28 | 5 1 | 25 17 | 2 34 | 22 28 | 3 16 | 14 30 | 1 59 | 4 2 | 1 7 | 22 43 | 0 11 | 23 21 | 0 7 | 3 40 | 1 20 | 24 12 | 5 20 | 21 28 | 21 32 | 13 48 | 13 27 | 7 22 |
| T 17 | 19 2 | 7 28 | 4 29 | 25 21 | 2 31 | 22 6 | 3 2 | 14 22 | 2 1 | 3 59 | 1 8 | 22 43 | 0 11 | 23 21 | 0 7 | 3 40 | 1 20 | 24 12 | 5 20 | 21 27 | 21 32 | 13 46 | 13 27 | 7 22 |
| F 18 | 19 17 | 12 2 | 3 43 | 25 23 | 2 28 | 21 42 | 2 47 | 14 14 | 2 2 | 3 56 | 1 8 | 22 42 | 0 11 | 23 21 | 0 7 | 3 40 | 1 20 | 24 12 | 5 21 | 21 27 | 21 31 | 13 44 | 13 26 | 7 23 |
| S 19 | 19 31 | 15 56 | 2 44 | 25 24 | 2 24 | 21 19 | 2 32 | 14 6 | 2 3 | 3 53 | 1 8 | 22 42 | 0 11 | 23 21 | 0 7 | 3 41 | 1 20 | 24 13 | 5 21 | 21 27 | 21 31 | 13 41 | 13 26 | 7 24 |
| S 20 | 19 44 | 18 57 | 1 38 | 25 23 | 2 19 | 20 55 | 2 17 | 13 59 | 2 5 | 3 49 | 1 8 | 22 42 | 0 11 | 23 21 | 0 7 | 3 41 | 1 20 | 24 13 | 5 21 | 21 27 | 21 30 | 13 39 | 13 25 | 7 24 |
| M21 | 19 58 | 20 57 | 0 28 | 25 20 | 2 13 | 20 31 | 2 1 | 13 51 | 2 6 | 3 46 | 1 8 | 22 41 | 0 11 | 23 21 | 0 7 | 3 41 | 1 20 | 24 13 | 5 21 | 21 27 | 21 30 | 13 37 | 13 25 | 7 25 |
| T 22 | 20 11 | 21 51 | 0s42 | 25 16 | 2 6 | 20 7 | 1 46 | 13 43 | 2 8 | 3 43 | 1 9 | 22 41 | 0 11 | 23 21 | 0 7 | 3 41 | 1 20 | 24 14 | 5 21 | 21 27 | 21 29 | 13 35 | 13 24 | 7 26 |
| W23 | 20 24 | 21 37 | 1 49 | 25 9 | 1 58 | 19 44 | 1 30 | 13 36 | 2 9 | 3 40 | 1 9 | 22 40 | 0 11 | 23 20 | 0 7 | 3 41 | 1 20 | 24 14 | 5 22 | 21 27 | 21 29 | 13 33 | 13 24 | 7 26 |
| T 24 | 20 36 | 20 22 | 2 50 | 25 1 | 1 48 | 19 20 | 1 15 | 13 28 | 2 10 | 3 37 | 1 9 | 22 40 | 0 10 | 23 20 | 0 7 | 3 41 | 1 20 | 24 14 | 5 22 | 21 27 | 21 28 | 13 31 | 13 24 | 7 27 |
| F 25 | 20 48 | 18 12 | 3 42 | 24 50 | 1 37 | 18 57 | 0 59 | 13 21 | 2 12 | 3 34 | 1 9 | 22 39 | 0 10 | 23 20 | 0 7 | 3 41 | 1 20 | 24 15 | 5 22 | 21 27 | 21 27 | 13 29 | 13 23 | 7 28 |
| S 26 | 20 59 | 15 17 | 4 24 | 24 38 | 1 24 | 18 35 | 0 44 | 13 14 | 2 13 | 3 31 | 1 9 | 22 39 | 0 10 | 23 20 | 0 7 | 3 42 | 1 20 | 24 15 | 5 22 | 21 27 | 21 27 | 13 27 | 13 23 | 7 28 |
| S 27 | 21 11 | 11 46 | 4 55 | 24 23 | 1 10 | 18 13 | 0 28 | 13 6 | 2 15 | 3 28 | 1 10 | 22 38 | 0 10 | 23 20 | 0 7 | 3 42 | 1 20 | 24 15 | 5 22 | 21 27 | 21 26 | 13 24 | 13 23 | 7 29 |
| M28 | 21 21 | 7 48 | 5 13 | 24 7 | 0 54 | 17 52 | 0 14 | 12 59 | 2 16 | 3 26 | 1 10 | 22 38 | 0 10 | 23 20 | 0 7 | 3 42 | 1 20 | 24 16 | 5 23 | 21 27 | 21 26 | 13 22 | 13 22 | 7 30 |
| T 29 | 21 32 | 3 30 | 5 17 | 23 48 | 0 37 | 17 32 | 0n 1 | 12 52 | 2 18 | 3 23 | 1 10 | 22 37 | 0 10 | 23 20 | 0 7 | 3 42 | 1 20 | 24 16 | 5 23 | 21 27 | 21 25 | 13 20 | 13 22 | 7 30 |
| W30 | 21s42 | 0s59 | 5s 8 | 23s27 | 0s19 | 17s12 | 0n15 | 12n45 | 2n19 | 3n20 | 1n10 | 22s37 | 0n10 | 23n19 | 0n 7 | 3s42 | 1s20 | 24n16 | 5n23 | 21s27 | 21s25 | 13n18 | 13n22 | 7s31 |

Julian Day Number = 2340450.5, Delta T = 15.85 sec
Ecliptic obliquity = 23°28'41, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'40, Lahiri = 19°36'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1695
# geocentric

## DECEMBER 1695 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 40 9 | 9♐ 7'27 | 2♎57 | 19°R37 | 18°R32 | 2♍55 | 24♍27 | 13♑46 | 21°R28 | 23°R47 | 4°R58 | 6♐37 | 6♐21 | 10♌12 | 27°R13 | T 1 |
| F 2 | 4 44 5 | 10° 8'24 | 15°37 | 18♐37 | 18♏16 | 3°17 | 24°34 | 13°53 | 21♊25 | 23♓46 | 4♌57 | 6°37 | 6°18 | 10°18 | 27♋11 | F 2 |
| S 3 | 4 48 2 | 11° 9'21 | 28°38 | 17°27 | 18° 3 | 3°39 | 24°41 | 13°59 | 21°23 | 23°46 | 4°57 | 6°38 | 6°15 | 10°25 | 27° 8 | S 3 |
| S 4 | 4 51 58 | 12°10'21 | 12♏ 3 | 16°11 | 17°52 | 4° 1 | 24°47 | 14° 5 | 21°20 | 23°46 | 4°56 | 6°38 | 6°12 | 10°32 | 27° 6 | S 4 |
| M 5 | 4 55 55 | 13°11'21 | 25°52 | 14°50 | 17°44 | 4°22 | 24°54 | 14°12 | 21°18 | 23°D46 | 4°55 | 6°39 | 6° 8 | 10°39 | 27° 3 | M 5 |
| T 6 | 4 59 51 | 14°12'22 | 10♐ 2 | 13°27 | 17°38 | 4°43 | 25° 0 | 14°18 | 21°15 | 23°46 | 4°54 | 6°R39 | 6° 5 | 10°45 | 27° 1 | T 6 |
| W 7 | 5 3 48 | 15°13'24 | 24°29 | 12° 5 | 17°35 | 5° 3 | 25° 7 | 14°25 | 21°12 | 23°46 | 4°54 | 6°38 | 6° 2 | 10°52 | 26°58 | W 7 |
| T 8 | 5 7 45 | 16°14'27 | 9♑ 8 | 10°46 | 17°D34 | 5°23 | 25°13 | 14°31 | 21°10 | 23°46 | 4°53 | 6°38 | 5°59 | 10°59 | 26°56 | T 8 |
| F 9 | 5 11 41 | 17°15'31 | 23°52 | 9°34 | 17°36 | 5°43 | 25°19 | 14°38 | 21° 7 | 23°47 | 4°52 | 6°36 | 5°56 | 11° 5 | 26°53 | F 9 |
| S 10 | 5 15 38 | 18°16'35 | 8♒33 | 8°30 | 17°40 | 6° 3 | 25°25 | 14°44 | 21° 5 | 23°47 | 4°51 | 6°35 | 5°52 | 11°12 | 26°50 | S 10 |
| S 11 | 5 19 34 | 19°17'39 | 23° 6 | 7°35 | 17°46 | 6°21 | 25°30 | 14°51 | 21° 2 | 23°47 | 4°50 | 6°34 | 5°49 | 11°19 | 26°47 | S 11 |
| M12 | 5 23 31 | 20°18'44 | 7♓26 | 6°51 | 17°55 | 6°40 | 25°36 | 14°57 | 21° 0 | 23°47 | 4°49 | 6°33 | 5°46 | 11°25 | 26°44 | M12 |
| T 13 | 5 27 27 | 21°19'49 | 21°30 | 6°18 | 18° 6 | 6°58 | 25°41 | 15° 4 | 20°57 | 23°47 | 4°48 | 6°D32 | 5°43 | 11°32 | 26°41 | T 13 |
| W14 | 5 31 24 | 22°20'55 | 5♈17 | 5°56 | 18°19 | 7°16 | 25°46 | 15°11 | 20°54 | 23°48 | 4°48 | 6°33 | 5°40 | 11°39 | 26°38 | W14 |
| T 15 | 5 35 20 | 23°22'00 | 18°47 | 5°45 | 18°34 | 7°33 | 25°51 | 15°18 | 20°52 | 23°48 | 4°47 | 6°34 | 5°37 | 11°46 | 26°34 | T 15 |
| F 16 | 5 39 17 | 24°23'06 | 2♉ 1 | 5°D44 | 18°51 | 7°50 | 25°56 | 15°24 | 20°49 | 23°48 | 4°46 | 6°35 | 5°33 | 11°52 | 26°31 | F 16 |
| S 17 | 5 43 14 | 25°24'13 | 15° 1 | 5°52 | 19°11 | 8° 6 | 26° 1 | 15°31 | 20°47 | 23°49 | 4°45 | 6°37 | 5°30 | 11°59 | 26°28 | S 17 |
| S 18 | 5 47 10 | 26°25'19 | 27°47 | 6° 9 | 19°32 | 8°22 | 26° 6 | 15°38 | 20°44 | 23°49 | 4°44 | 6°38 | 5°27 | 12° 6 | 26°24 | S 18 |
| M19 | 5 51 7 | 27°26'26 | 10♊21 | 6°34 | 19°55 | 8°37 | 26°10 | 15°45 | 20°42 | 23°50 | 4°43 | 6°R38 | 5°24 | 12°12 | 26°21 | M19 |
| T 20 | 5 55 3 | 28°27'34 | 22°45 | 7° 7 | 20°20 | 8°52 | 26°14 | 15°52 | 20°39 | 23°50 | 4°41 | 6°37 | 5°21 | 12°19 | 26°17 | T 20 |
| W21 | 5 59 0 | 29°28'41 | 4♋59 | 7°45 | 20°47 | 9° 6 | 26°18 | 15°58 | 20°37 | 23°51 | 4°40 | 6°35 | 5°18 | 12°26 | 26°13 | W21 |
| T 22 | 6 2 56 | 0♑29'49 | 17° 5 | 8°30 | 21°15 | 9°20 | 26°22 | 16° 5 | 20°34 | 23°51 | 4°39 | 6°31 | 5°14 | 12°33 | 26°10 | T 22 |
| F 23 | 6 6 53 | 1°30'57 | 29° 3 | 9°19 | 21°45 | 9°33 | 26°26 | 16°12 | 20°32 | 23°52 | 4°38 | 6°27 | 5°11 | 12°39 | 26° 6 | F 23 |
| S 24 | 6 10 50 | 2°32'06 | 10♌57 | 10°13 | 22°17 | 9°46 | 26°29 | 16°19 | 20°29 | 23°53 | 4°37 | 6°22 | 5° 8 | 12°46 | 26° 2 | S 24 |
| S 25 | 6 14 46 | 3°33'15 | 22°48 | 11°11 | 22°50 | 9°58 | 26°33 | 16°26 | 20°27 | 23°53 | 4°36 | 6°18 | 5° 5 | 12°53 | 25°58 | S 25 |
| M26 | 6 18 43 | 4°34'24 | 4♍40 | 12°13 | 23°24 | 10°10 | 26°36 | 16°33 | 20°24 | 23°54 | 4°35 | 6°14 | 5° 2 | 12°59 | 25°54 | M26 |
| T 27 | 6 22 39 | 5°35'34 | 16°36 | 13°17 | 24° 0 | 10°21 | 26°39 | 16°40 | 20°22 | 23°55 | 4°34 | 6°11 | 4°58 | 13° 6 | 25°50 | T 27 |
| W28 | 6 26 36 | 6°36'43 | 28°40 | 14°25 | 24°38 | 10°31 | 26°42 | 16°47 | 20°19 | 23°56 | 4°32 | 6° 9 | 4°55 | 13°13 | 25°46 | W28 |
| T 29 | 6 30 32 | 7°37'54 | 10♎56 | 15°35 | 25°16 | 10°41 | 26°44 | 16°54 | 20°17 | 23°56 | 4°31 | 6°D 9 | 4°52 | 13°20 | 25°42 | T 29 |
| F 30 | 6 34 29 | 8°39'04 | 23°30 | 16°47 | 25°56 | 10°50 | 26°47 | 17° 1 | 20°14 | 23°57 | 4°30 | 6° 9 | 4°49 | 13°26 | 25°38 | F 30 |
| S 31 | 6 38 25 | 9♑40'15 | 6♏26 | 18♐ 1 | 26♏37 | 10♍59 | 26♍49 | 17♑ 8 | 20♊12 | 23♓58 | 4♌29 | 6♐11 | 4♐46 | 13♌33 | 25♋34 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| T 1 | 21s51 | 5s31 | 4s45 | 23s 4 | 0s 0 | 16s54 | 0n29 | 12n39 | 2n21 | 3n17 | 1n11 | 22s36 | 0n10 | 23n19 | 0n 7 | 3s42 | 1s20 | 24n17 | 5n23 | 21s27 | 21s24 | 13n16 | 13n22 | 7s32 | T 1 |
| F 2 | 22 0 | 9 57 | 4 7 | 22 39 | 0n20 | 16 36 | 0 43 | 12 32 | 2 22 | 3 15 | 1 11 | 22 35 | 0 10 | 23 19 | 0 7 | 3 42 | 1 20 | 24 17 | 5 23 | 21 27 | 21 24 | 13 14 | 13 21 | 7 32 | F 2 |
| S 3 | 22 9 | 14 3 | 3 16 | 22 13 | 0 40 | 16 20 | 0 56 | 12 25 | 2 24 | 3 12 | 1 11 | 22 35 | 0 10 | 23 19 | 0 7 | 3 42 | 1 20 | 24 17 | 5 24 | 21 27 | 21 23 | 13 12 | 13 21 | 7 33 | S 3 |
| S 4 | 22 17 | 17 34 | 2 12 | 21 45 | 1 1 | 16 5 | 1 9 | 12 19 | 2 26 | 3 10 | 1 11 | 22 34 | 0 10 | 23 19 | 0 7 | 3 42 | 1 20 | 24 18 | 5 24 | 21 27 | 21 23 | 13 9 | 13 21 | 7 33 | S 4 |
| M 5 | 22 25 | 20 13 | 1 0 | 21 17 | 1 20 | 15 51 | 1 21 | 12 12 | 2 27 | 3 8 | 1 12 | 22 34 | 0 10 | 23 19 | 0 7 | 3 42 | 1 20 | 24 18 | 5 24 | 21 27 | 21 22 | 13 7 | 13 21 | 7 34 | M 5 |
| T 6 | 22 32 | 21 41 | 0n19 | 20 49 | 1 39 | 15 38 | 1 33 | 12 6 | 2 29 | 3 5 | 1 12 | 22 33 | 0 9 | 23 18 | 0 7 | 3 42 | 1 20 | 24 18 | 5 24 | 21 27 | 21 21 | 13 5 | 13 21 | 7 35 | T 6 |
| W 7 | 22 39 | 21 44 | 1 37 | 20 22 | 1 56 | 15 26 | 1 45 | 12 0 | 2 30 | 3 3 | 1 12 | 22 32 | 0 9 | 23 18 | 0 7 | 3 42 | 1 20 | 24 19 | 5 24 | 21 27 | 21 21 | 13 3 | 13 21 | 7 35 | W 7 |
| T 8 | 22 46 | 20 20 | 2 51 | 19 56 | 2 11 | 15 15 | 1 56 | 11 54 | 2 32 | 3 1 | 1 12 | 22 32 | 0 9 | 23 18 | 0 7 | 3 42 | 1 20 | 24 19 | 5 25 | 21 27 | 21 20 | 13 1 | 13 21 | 7 36 | T 8 |
| F 9 | 22 52 | 17 33 | 3 53 | 19 33 | 2 24 | 15 6 | 2 6 | 11 49 | 2 34 | 2 59 | 1 13 | 22 31 | 0 9 | 23 18 | 0 7 | 3 42 | 1 20 | 24 20 | 5 25 | 21 27 | 21 20 | 12 59 | 13 21 | 7 36 | F 9 |
| S 10 | 22 58 | 13 39 | 4 40 | 19 12 | 2 35 | 14 57 | 2 16 | 11 43 | 2 35 | 2 56 | 1 13 | 22 31 | 0 9 | 23 18 | 0 7 | 3 41 | 1 19 | 24 20 | 5 25 | 21 27 | 21 19 | 12 56 | 13 21 | 7 37 | S 10 |
| S 11 | 23 3 | 8 59 | 5 8 | 18 55 | 2 43 | 14 50 | 2 25 | 11 37 | 2 37 | 2 54 | 1 13 | 22 30 | 0 9 | 23 18 | 0 7 | 3 41 | 1 19 | 24 20 | 5 25 | 21 26 | 21 19 | 12 54 | 13 21 | 7 37 | S 11 |
| M12 | 23 7 | 3 54 | 5 16 | 18 42 | 2 49 | 14 44 | 2 34 | 11 32 | 2 39 | 2 52 | 1 13 | 22 29 | 0 9 | 23 18 | 0 7 | 3 41 | 1 19 | 24 21 | 5 25 | 21 26 | 21 18 | 12 52 | 13 21 | 7 38 | M12 |
| T 13 | 23 12 | 1n18 | 5 6 | 18 33 | 2 53 | 14 38 | 2 43 | 11 27 | 2 40 | 2 51 | 1 14 | 22 29 | 0 9 | 23 17 | 0 7 | 3 41 | 1 19 | 24 21 | 5 25 | 21 26 | 21 18 | 12 50 | 13 21 | 7 38 | T 13 |
| W14 | 23 15 | 6 21 | 4 38 | 18 27 | 2 55 | 14 34 | 2 51 | 11 22 | 2 42 | 2 49 | 1 14 | 22 28 | 0 9 | 23 17 | 0 7 | 3 41 | 1 19 | 24 22 | 5 26 | 21 26 | 21 17 | 12 48 | 13 21 | 7 39 | W14 |
| T 15 | 23 19 | 10 59 | 3 55 | 18 25 | 2 55 | 14 31 | 2 59 | 11 17 | 2 44 | 2 47 | 1 14 | 22 27 | 0 9 | 23 17 | 0 7 | 3 41 | 1 19 | 24 22 | 5 26 | 21 26 | 21 16 | 12 46 | 13 21 | 7 39 | T 15 |
| F 16 | 23 21 | 15 0 | 3 0 | 18 26 | 2 54 | 14 29 | 3 6 | 11 13 | 2 46 | 2 45 | 1 14 | 22 27 | 0 9 | 23 17 | 0 7 | 3 41 | 1 19 | 24 22 | 5 26 | 21 27 | 21 16 | 12 44 | 13 21 | 7 40 | F 16 |
| S 17 | 23 24 | 18 13 | 1 57 | 18 30 | 2 51 | 14 28 | 3 12 | 11 8 | 2 47 | 2 44 | 1 15 | 22 26 | 0 9 | 23 17 | 0 7 | 3 40 | 1 19 | 24 23 | 5 26 | 21 27 | 21 15 | 12 41 | 13 21 | 7 40 | S 17 |
| S 18 | 23 26 | 20 29 | 0 49 | 18 37 | 2 47 | 14 27 | 3 19 | 11 4 | 2 49 | 2 42 | 1 15 | 22 25 | 0 9 | 23 17 | 0 7 | 3 40 | 1 19 | 24 23 | 5 26 | 21 27 | 21 15 | 12 39 | 13 22 | 7 41 | S 18 |
| M19 | 23 27 | 21 42 | 0s21 | 18 46 | 2 43 | 14 28 | 3 25 | 11 0 | 2 51 | 2 41 | 1 15 | 22 24 | 0 8 | 23 16 | 0 7 | 3 40 | 1 19 | 24 24 | 5 26 | 21 27 | 21 14 | 12 37 | 13 22 | 7 41 | M19 |
| T 20 | 23 28 | 21 49 | 1 28 | 18 57 | 2 37 | 14 29 | 3 30 | 10 56 | 2 53 | 2 39 | 1 15 | 22 24 | 0 8 | 23 16 | 0 7 | 3 40 | 1 19 | 24 24 | 5 27 | 21 27 | 21 14 | 12 35 | 13 22 | 7 42 | T 20 |
| W21 | 23 29 | 20 53 | 2 30 | 19 10 | 2 31 | 14 31 | 3 35 | 10 52 | 2 55 | 2 38 | 1 16 | 22 23 | 0 8 | 23 16 | 0 7 | 3 39 | 1 19 | 24 24 | 5 27 | 21 27 | 21 13 | 12 33 | 13 22 | 7 42 | W21 |
| T 22 | 23 29 | 19 0 | 3 24 | 19 23 | 2 24 | 14 34 | 3 40 | 10 48 | 2 57 | 2 36 | 1 16 | 22 22 | 0 8 | 23 16 | 0 7 | 3 39 | 1 19 | 24 25 | 5 27 | 21 26 | 21 13 | 12 30 | 13 23 | 7 42 | T 22 |
| F 23 | 23 28 | 16 19 | 4 9 | 19 38 | 2 16 | 14 37 | 3 44 | 10 45 | 2 58 | 2 35 | 1 16 | 22 21 | 0 8 | 23 16 | 0 7 | 3 39 | 1 19 | 24 25 | 5 27 | 21 25 | 21 12 | 12 28 | 13 23 | 7 43 | F 23 |
| S 24 | 23 27 | 12 58 | 4 43 | 19 54 | 2 9 | 14 41 | 3 48 | 10 42 | 3 0 | 2 34 | 1 17 | 22 21 | 0 8 | 23 16 | 0 7 | 3 39 | 1 19 | 24 26 | 5 27 | 21 24 | 21 11 | 12 26 | 13 23 | 7 43 | S 24 |
| S 25 | 23 26 | 9 8 | 5 4 | 20 10 | 2 1 | 14 46 | 3 52 | 10 39 | 3 2 | 2 33 | 1 17 | 22 20 | 0 8 | 23 15 | 0 7 | 3 38 | 1 19 | 24 26 | 5 27 | 21 24 | 21 11 | 12 24 | 13 24 | 7 44 | S 25 |
| M26 | 23 24 | 4 57 | 5 13 | 20 26 | 1 53 | 14 51 | 3 55 | 10 36 | 3 4 | 2 32 | 1 17 | 22 19 | 0 8 | 23 15 | 0 7 | 3 38 | 1 19 | 24 27 | 5 28 | 21 23 | 21 10 | 12 22 | 13 24 | 7 44 | M26 |
| T 27 | 23 22 | 0 34 | 5 8 | 20 42 | 1 44 | 14 57 | 3 58 | 10 34 | 3 6 | 2 31 | 1 17 | 22 18 | 0 8 | 23 15 | 0 7 | 3 38 | 1 19 | 24 27 | 5 28 | 21 22 | 21 10 | 12 20 | 13 24 | 7 44 | T 27 |
| W28 | 23 19 | 3s53 | 4 49 | 20 59 | 1 36 | 15 3 | 4 1 | 10 32 | 3 8 | 2 30 | 1 18 | 22 18 | 0 8 | 23 15 | 0 7 | 3 37 | 1 19 | 24 27 | 5 28 | 21 22 | 21 9 | 12 17 | 13 25 | 7 45 | W28 |
| T 29 | 23 15 | 8 17 | 4 17 | 21 15 | 1 27 | 15 10 | 4 3 | 10 30 | 3 10 | 2 29 | 1 18 | 22 17 | 0 8 | 23 15 | 0 7 | 3 37 | 1 19 | 24 28 | 5 28 | 21 22 | 21 9 | 12 15 | 13 25 | 7 45 | T 29 |
| F 30 | 23 12 | 12 26 | 3 32 | 21 31 | 1 19 | 15 18 | 4 6 | 10 28 | 3 12 | 2 29 | 1 18 | 22 16 | 0 8 | 23 14 | 0 7 | 3 37 | 1 19 | 24 28 | 5 28 | 21 22 | 21 8 | 12 13 | 13 26 | 7 45 | F 30 |
| S 31 | 23s 7 | 16s 8 | 2s36 | 21s46 | 1n10 | 15s25 | 4n 7 | 10n27 | 3n14 | 2n28 | 1n18 | 22s15 | 0n 8 | 23n14 | 0n 7 | 3s36 | 1s19 | 24n29 | 5n28 | 21s22 | 21s 7 | 12n11 | 13n26 | 7s45 | S 31 |

Julian Day Number = 2340480.5, Delta T = 15.82 sec
Ecliptic obliquity = 23°28'40, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'44, Lahiri = 19°36'44Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## JANUARY 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 6 42 22 | 10♉41'26 | 19♏47 | 19♐17 | 27♏20 | 11♍ 7 | 26♍51 | 17♉15 | 20°R10 | 23♓59 | 4°R28 | 6♐13 | 4♐43 | 13♌40 | 25°R30 | S 1 |
| M 2 | 6 46 19 | 11°42'37 | 3♐36 | 20°34 | 28° 3 | 11°15 | 26°53 | 17°22 | 20♊ 7 | 24° 0 | 4♌26 | 6°R14 | 4°39 | 13°46 | 25♋26 | M 2 |
| T 3 | 6 50 15 | 12°43'48 | 17°53 | 21°53 | 28°47 | 11°21 | 26°54 | 17°30 | 20° 5 | 24° 1 | 4°25 | 6°13 | 4°36 | 13°53 | 25°21 | T 3 |
| W 4 | 6 54 12 | 13°45'00 | 2♉33 | 23°13 | 29°33 | 11°27 | 26°56 | 17°37 | 20° 3 | 24° 2 | 4°24 | 6°11 | 4°33 | 14° 0 | 25°17 | W 4 |
| T 5 | 6 58 8 | 14°46'11 | 17°32 | 24°34 | 0♐19 | 11°33 | 26°57 | 17°44 | 20° 0 | 24° 3 | 4°23 | 6° 6 | 4°30 | 14° 7 | 25°13 | T 5 |
| F 6 | 7 2 5 | 15°47'22 | 2♒41 | 25°56 | 1° 6 | 11°37 | 26°58 | 17°51 | 19°58 | 24° 4 | 4°21 | 6° 1 | 4°27 | 14°13 | 25° 8 | F 6 |
| S 7 | 7 6 1 | 16°48'32 | 17°49 | 27°19 | 1°55 | 11°41 | 26°59 | 17°58 | 19°56 | 24° 5 | 4°20 | 5°54 | 4°24 | 14°20 | 25° 4 | S 7 |
| S 8 | 7 9 58 | 17°49'42 | 2♓46 | 28°44 | 2°44 | 11°45 | 27° 0 | 18° 5 | 19°54 | 24° 6 | 4°19 | 5°48 | 4°20 | 14°27 | 25° 0 | S 8 |
| M 9 | 7 13 54 | 18°50'51 | 17°26 | 0♉ 9 | 3°33 | 11°47 | 27° 1 | 18°12 | 19°52 | 24° 7 | 4°17 | 5°43 | 4°17 | 14°33 | 24°55 | M 9 |
| T 10 | 7 17 51 | 19°51'59 | 1♈42 | 1°34 | 4°24 | 11°49 | 27° 1 | 18°19 | 19°49 | 24° 9 | 4°16 | 5°39 | 4°14 | 14°40 | 24°51 | T 10 |
| W11 | 7 21 48 | 20°53'07 | 15°33 | 3° 1 | 5°15 | 11°50 | 27°R 1 | 18°26 | 19°47 | 24°10 | 4°15 | 5°D38 | 4°11 | 14°47 | 24°46 | W11 |
| T 12 | 7 25 44 | 21°54'14 | 28°59 | 4°28 | 6° 8 | 11°R50 | 27° 1 | 18°33 | 19°45 | 24°11 | 4°13 | 5°38 | 4° 8 | 14°54 | 24°42 | T 12 |
| F 13 | 7 29 41 | 22°55'20 | 12♉ 4 | 5°56 | 7° 0 | 11°50 | 27° 1 | 18°40 | 19°43 | 24°12 | 4°12 | 5°39 | 4° 4 | 15° 0 | 24°37 | F 13 |
| S 14 | 7 33 37 | 23°56'25 | 24°49 | 7°25 | 7°54 | 11°49 | 27° 0 | 18°48 | 19°41 | 24°14 | 4°11 | 5°40 | 4° 1 | 15° 7 | 24°33 | S 14 |
| S 15 | 7 37 34 | 24°57'30 | 7♊19 | 8°54 | 8°48 | 11°47 | 27° 0 | 18°55 | 19°39 | 24°15 | 4° 9 | 5°R41 | 3°58 | 15°14 | 24°28 | S 15 |
| M16 | 7 41 30 | 25°58'33 | 19°37 | 10°24 | 9°43 | 11°44 | 26°59 | 19° 2 | 19°37 | 24°16 | 4° 8 | 5°40 | 3°55 | 15°20 | 24°24 | M16 |
| T 17 | 7 45 27 | 26°59'36 | 1♋46 | 11°54 | 10°38 | 11°41 | 26°58 | 19° 9 | 19°35 | 24°18 | 4° 7 | 5°36 | 3°52 | 15°27 | 24°20 | T 17 |
| W18 | 7 49 23 | 28° 0'38 | 13°48 | 13°25 | 11°34 | 11°36 | 26°57 | 19°16 | 19°33 | 24°19 | 4° 5 | 5°30 | 3°49 | 15°34 | 24°15 | W18 |
| T 19 | 7 53 20 | 29° 1'39 | 25°46 | 14°57 | 12°31 | 11°31 | 26°55 | 19°23 | 19°32 | 24°21 | 4° 4 | 5°22 | 3°45 | 15°41 | 24°11 | T 19 |
| F 20 | 7 57 17 | 0♒ 2'40 | 7♌40 | 16°30 | 13°28 | 11°25 | 26°54 | 19°30 | 19°30 | 24°22 | 4° 2 | 5°11 | 3°42 | 15°47 | 24° 6 | F 20 |
| S 21 | 8 1 13 | 1° 3'39 | 19°33 | 18° 3 | 14°25 | 11°19 | 26°52 | 19°37 | 19°28 | 24°24 | 4° 1 | 5° 0 | 3°39 | 15°54 | 24° 2 | S 21 |
| S 22 | 8 5 10 | 2° 4'38 | 1♍25 | 19°36 | 15°23 | 11°11 | 26°50 | 19°44 | 19°26 | 24°25 | 4° 0 | 4°48 | 3°36 | 16° 1 | 23°57 | S 22 |
| M23 | 8 9 6 | 3° 5'36 | 13°18 | 21°10 | 16°22 | 11° 3 | 26°48 | 19°51 | 19°25 | 24°27 | 3°58 | 4°38 | 3°33 | 16° 8 | 23°53 | M23 |
| T 24 | 8 13 3 | 4° 6'33 | 25°15 | 22°45 | 17°21 | 10°54 | 26°46 | 19°58 | 19°23 | 24°28 | 3°57 | 4°29 | 3°30 | 16°14 | 23°49 | T 24 |
| W25 | 8 16 59 | 5° 7'29 | 7♎20 | 24°21 | 18°21 | 10°44 | 26°43 | 20° 5 | 19°22 | 24°30 | 3°56 | 4°23 | 3°26 | 16°21 | 23°44 | W25 |
| T 26 | 8 20 56 | 6° 8'25 | 19°34 | 25°57 | 19°20 | 10°34 | 26°40 | 20°12 | 19°20 | 24°32 | 3°54 | 4°19 | 3°23 | 16°28 | 23°40 | T 26 |
| F 27 | 8 24 52 | 7° 9'20 | 2♏ 3 | 27°34 | 20°21 | 10°22 | 26°37 | 20°19 | 19°18 | 24°33 | 3°53 | 4°D17 | 3°20 | 16°34 | 23°36 | F 27 |
| S 28 | 8 28 49 | 8°10'14 | 14°52 | 29°12 | 21°22 | 10°10 | 26°34 | 20°25 | 19°17 | 24°35 | 3°51 | 4°17 | 3°17 | 16°41 | 23°31 | S 28 |
| S 29 | 8 32 46 | 9°11'08 | 28° 4 | 0♒50 | 22°23 | 9°57 | 26°31 | 20°32 | 19°16 | 24°37 | 3°50 | 4°R18 | 3°14 | 16°48 | 23°27 | S 29 |
| M30 | 8 36 42 | 10°12'01 | 11♐43 | 2°29 | 23°24 | 9°43 | 26°28 | 20°39 | 19°14 | 24°38 | 3°49 | 4°18 | 3°10 | 16°55 | 23°23 | M30 |
| T 31 | 8 40 39 | 11♒12'52 | 25♐51 | 4♒ 9 | 24♐26 | 9♍29 | 26♍24 | 20♉46 | 19♊13 | 24♓40 | 3♌47 | 4♐16 | 3♐ 7 | 17♌ 1 | 23♋19 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23s 3 | 19s 8 | 1s29 | 22s 1 | 1n 2 | 15s33 | 4n 9 | 10n25 | 3n16 | 2n28 | 1n19 | 22s14 | 0n 8 | 23n14 | 0n 7 | 3s36 | 1s19 | 24n29 | 5n28 | 21s23 | 21s 7 | 12n 9 | 13n26 | 7s46 |
| M 2 | 22 58 | 21 8 | 0 14 | 22 16 | 0 53 | 15 41 | 4 10 | 10 24 | 3 18 | 2 27 | 1 19 | 22 13 | 0 7 | 23 14 | 0 7 | 3 35 | 1 19 | 24 30 | 5 29 | 21 23 | 21 6 | 12 6 | 13 27 | 7 46 |
| T 3 | 22 52 | 21 53 | 1n 3 | 22 29 | 0 45 | 15 50 | 4 11 | 10 24 | 3 20 | 2 27 | 1 19 | 22 13 | 0 7 | 23 14 | 0 7 | 3 35 | 1 19 | 24 30 | 5 29 | 21 23 | 21 6 | 12 4 | 13 28 | 7 46 |
| W 4 | 22 46 | 21 9 | 2 18 | 22 42 | 0 36 | 15 59 | 4 12 | 10 23 | 3 22 | 2 26 | 1 20 | 22 12 | 0 7 | 23 14 | 0 7 | 3 35 | 1 19 | 24 30 | 5 29 | 21 22 | 21 5 | 12 2 | 13 28 | 7 46 |
| T 5 | 22 39 | 18 56 | 3 26 | 22 54 | 0 28 | 16 8 | 4 13 | 10 23 | 3 24 | 2 26 | 1 20 | 22 11 | 0 7 | 23 13 | 0 7 | 3 34 | 1 19 | 24 31 | 5 29 | 21 22 | 21 4 | 12 0 | 13 29 | 7 46 |
| F 6 | 22 33 | 15 23 | 4 19 | 23 5 | 0 20 | 16 17 | 4 13 | 10 23 | 3 26 | 2 26 | 1 20 | 22 10 | 0 7 | 23 13 | 0 7 | 3 34 | 1 18 | 24 31 | 5 29 | 21 21 | 21 4 | 11 58 | 13 29 | 7 47 |
| S 7 | 22 25 | 10 51 | 4 54 | 23 15 | 0 12 | 16 27 | 4 13 | 10 23 | 3 28 | 2 26 | 1 20 | 22 9 | 0 7 | 23 13 | 0 7 | 3 33 | 1 18 | 24 32 | 5 29 | 21 20 | 21 3 | 11 56 | 13 30 | 7 47 |
| S 8 | 22 17 | 5 42 | 5 9 | 23 24 | 0 4 | 16 36 | 4 13 | 10 24 | 3 30 | 2 26 | 1 21 | 22 8 | 0 7 | 23 13 | 0 7 | 3 33 | 1 18 | 24 32 | 5 29 | 21 18 | 21 3 | 11 53 | 13 30 | 7 47 |
| M 9 | 22 9 | 0 19 | 5 3 | 23 32 | 0s 4 | 16 46 | 4 13 | 10 25 | 3 32 | 2 26 | 1 21 | 22 7 | 0 7 | 23 13 | 0 8 | 3 32 | 1 18 | 24 33 | 5 29 | 21 18 | 21 2 | 11 51 | 13 31 | 7 47 |
| T 10 | 22 0 | 4n56 | 4 38 | 23 40 | 0 11 | 16 56 | 4 12 | 10 26 | 3 34 | 2 26 | 1 21 | 22 7 | 0 7 | 23 13 | 0 8 | 3 32 | 1 18 | 24 33 | 5 30 | 21 17 | 21 2 | 11 49 | 13 32 | 7 47 |
| W11 | 21 51 | 9 47 | 3 58 | 23 45 | 0 19 | 17 5 | 4 11 | 10 27 | 3 36 | 2 26 | 1 22 | 22 6 | 0 7 | 23 13 | 0 8 | 3 31 | 1 18 | 24 34 | 5 30 | 21 17 | 21 1 | 11 47 | 13 32 | 7 47 |
| T 12 | 21 42 | 14 1 | 3 5 | 23 50 | 0 26 | 17 15 | 4 10 | 10 29 | 3 38 | 2 26 | 1 22 | 22 5 | 0 7 | 23 12 | 0 8 | 3 31 | 1 18 | 24 34 | 5 30 | 21 17 | 21 0 | 11 45 | 13 33 | 7 47 |
| F 13 | 21 32 | 17 27 | 2 4 | 23 54 | 0 33 | 17 25 | 4 9 | 10 31 | 3 40 | 2 27 | 1 22 | 22 4 | 0 7 | 23 12 | 0 8 | 3 30 | 1 18 | 24 34 | 5 30 | 21 17 | 21 0 | 11 42 | 13 34 | 7 47 |
| S 14 | 21 21 | 19 57 | 0 58 | 23 56 | 0 40 | 17 35 | 4 8 | 10 33 | 3 42 | 2 27 | 1 22 | 22 3 | 0 7 | 23 12 | 0 8 | 3 30 | 1 18 | 24 35 | 5 30 | 21 17 | 20 59 | 11 40 | 13 34 | 7 47 |
| S 15 | 21 10 | 21 25 | 0s 9 | 23 57 | 0 47 | 17 45 | 4 7 | 10 36 | 3 44 | 2 28 | 1 23 | 22 2 | 0 7 | 23 12 | 0 8 | 3 29 | 1 18 | 24 35 | 5 30 | 21 17 | 20 59 | 11 38 | 13 35 | 7 47 |
| M16 | 20 59 | 21 50 | 1 14 | 23 57 | 0 53 | 17 54 | 4 5 | 10 39 | 3 46 | 2 28 | 1 23 | 22 1 | 0 6 | 23 12 | 0 8 | 3 28 | 1 18 | 24 36 | 5 30 | 21 17 | 20 58 | 11 36 | 13 36 | 7 47 |
| T 17 | 20 48 | 21 12 | 2 16 | 23 56 | 0 59 | 18 4 | 4 3 | 10 42 | 3 48 | 2 29 | 1 23 | 22 0 | 0 6 | 23 12 | 0 8 | 3 28 | 1 18 | 24 36 | 5 30 | 21 16 | 20 57 | 11 34 | 13 37 | 7 47 |
| W18 | 20 36 | 19 37 | 3 10 | 23 53 | 1 5 | 18 13 | 4 1 | 10 45 | 3 50 | 2 30 | 1 24 | 21 59 | 0 6 | 23 12 | 0 8 | 3 27 | 1 18 | 24 37 | 5 30 | 21 15 | 20 57 | 11 31 | 13 37 | 7 47 |
| T 19 | 20 23 | 17 10 | 3 55 | 23 49 | 1 11 | 18 23 | 3 59 | 10 49 | 3 51 | 2 30 | 1 24 | 21 58 | 0 6 | 23 11 | 0 8 | 3 27 | 1 18 | 24 37 | 5 30 | 21 14 | 20 56 | 11 29 | 13 38 | 7 47 |
| F 20 | 20 10 | 14 1 | 4 30 | 23 43 | 1 17 | 18 32 | 3 57 | 10 53 | 3 53 | 2 31 | 1 24 | 21 57 | 0 6 | 23 11 | 0 8 | 3 26 | 1 18 | 24 37 | 5 31 | 21 12 | 20 56 | 11 27 | 13 39 | 7 47 |
| S 21 | 19 57 | 10 20 | 4 53 | 23 37 | 1 22 | 18 41 | 3 55 | 10 57 | 3 55 | 2 32 | 1 24 | 21 56 | 0 6 | 23 11 | 0 8 | 3 25 | 1 18 | 24 38 | 5 31 | 21 10 | 20 55 | 11 25 | 13 40 | 7 47 |
| S 22 | 19 44 | 6 15 | 5 4 | 23 29 | 1 27 | 18 50 | 3 52 | 11 2 | 3 57 | 2 33 | 1 25 | 21 56 | 0 6 | 23 11 | 0 8 | 3 25 | 1 18 | 24 38 | 5 31 | 21 8 | 20 54 | 11 22 | 13 41 | 7 47 |
| M23 | 19 30 | 1 57 | 5 1 | 23 19 | 1 32 | 18 58 | 3 50 | 11 7 | 3 59 | 2 34 | 1 25 | 21 55 | 0 6 | 23 11 | 0 8 | 3 24 | 1 18 | 24 39 | 5 31 | 21 6 | 20 54 | 11 20 | 13 41 | 7 47 |
| T 24 | 19 16 | 2s28 | 4 45 | 23 8 | 1 36 | 19 7 | 3 47 | 11 12 | 4 1 | 2 36 | 1 25 | 21 54 | 0 6 | 23 11 | 0 8 | 3 23 | 1 18 | 24 39 | 5 31 | 21 4 | 20 53 | 11 18 | 13 42 | 7 47 |
| W25 | 19 1 | 6 50 | 4 16 | 22 56 | 1 40 | 19 15 | 3 44 | 11 17 | 4 2 | 2 37 | 1 25 | 21 53 | 0 6 | 23 11 | 0 8 | 3 23 | 1 18 | 24 39 | 5 31 | 21 3 | 20 53 | 11 16 | 13 43 | 7 47 |
| T 26 | 18 46 | 10 59 | 3 35 | 22 42 | 1 44 | 19 23 | 3 41 | 11 23 | 4 4 | 2 38 | 1 26 | 21 52 | 0 6 | 23 10 | 0 8 | 3 22 | 1 18 | 24 40 | 5 31 | 21 2 | 20 52 | 11 14 | 13 44 | 7 47 |
| F 27 | 18 31 | 14 45 | 2 43 | 22 27 | 1 48 | 19 30 | 3 38 | 11 29 | 4 6 | 2 40 | 1 26 | 21 51 | 0 6 | 23 10 | 0 8 | 3 21 | 1 18 | 24 40 | 5 31 | 21 2 | 20 51 | 11 11 | 13 45 | 7 46 |
| S 28 | 18 15 | 17 56 | 1 42 | 22 10 | 1 51 | 19 37 | 3 35 | 11 35 | 4 7 | 2 41 | 1 26 | 21 50 | 0 6 | 23 10 | 0 8 | 3 21 | 1 18 | 24 41 | 5 31 | 21 2 | 20 51 | 11 9 | 13 46 | 7 46 |
| S 29 | 17 59 | 20 18 | 0 33 | 21 52 | 1 54 | 19 44 | 3 32 | 11 41 | 4 9 | 2 42 | 1 26 | 21 49 | 0 6 | 23 10 | 0 8 | 3 20 | 1 18 | 24 41 | 5 31 | 21 2 | 20 50 | 11 7 | 13 47 | 7 46 |
| M30 | 17 43 | 21 35 | 0n39 | 21 32 | 1 57 | 19 51 | 3 28 | 11 48 | 4 11 | 2 44 | 1 27 | 21 48 | 0 5 | 23 10 | 0 8 | 3 19 | 1 18 | 24 41 | 5 31 | 21 2 | 20 50 | 11 5 | 13 48 | 7 46 |
| T 31 | 17s26 | 21s33 | 1n52 | 21s11 | 1s59 | 19s57 | 3n25 | 11n55 | 4n12 | 2n46 | 1n27 | 21s47 | 0n 5 | 23n10 | 0n 8 | 3s19 | 1s18 | 24n42 | 5n31 | 21s 2 | 20s49 | 11n 3 | 13n48 | 7s46 |

Julian Day Number = 2340511.5, Delta T = 15.79 sec
Ecliptic obliquity = 23°28'39, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'48, Lahiri = 19°36'49Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## FEBRUARY 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 8 44 35 | 12♒13'43 | 10♑27 | 5♒49 | 25♐28 | 9°R14 | 26°R20 | 20♑53 | 19°R12 | 24♓42 | 3°R46 | 4°R11 | 3♐ 4 | 17♌ 8 | 23°R15 | W 1 |
| T 2 | 8 48 32 | 13°14'33 | 25°28 | 7°31 | 26°31 | 8♏58 | 26♏16 | 21° 0 | 19♊10 | 24°44 | 3♌45 | 4♐ 4 | 3° 1 | 17°15 | 23♋10 | T 2 |
| F 3 | 8 52 28 | 14°15'22 | 10♒44 | 9°13 | 27°34 | 8°41 | 26°12 | 21° 6 | 19° 9 | 24°46 | 3°43 | 3°55 | 2°58 | 17°21 | 23° 6 | F 3 |
| S 4 | 8 56 25 | 15°16'09 | 26° 6 | 10°56 | 28°37 | 8°24 | 26° 8 | 21°13 | 19° 8 | 24°47 | 3°42 | 3°44 | 2°55 | 17°28 | 23° 2 | S 4 |
| S 5 | 9 0 21 | 16°16'55 | 11♓21 | 12°39 | 29°40 | 8° 6 | 26° 4 | 21°20 | 19° 7 | 24°49 | 3°40 | 3°33 | 2°51 | 17°35 | 22°58 | S 5 |
| M 6 | 9 4 18 | 17°17'40 | 26°18 | 14°24 | 0♑44 | 7°47 | 25°59 | 21°26 | 19° 6 | 24°51 | 3°39 | 3°24 | 2°48 | 17°42 | 22°55 | M 6 |
| T 7 | 9 8 15 | 18°18'23 | 10♈50 | 16° 9 | 1°48 | 7°28 | 25°54 | 21°33 | 19° 5 | 24°53 | 3°38 | 3°17 | 2°45 | 17°48 | 22°51 | T 7 |
| W 8 | 9 12 11 | 19°19'04 | 24°53 | 17°55 | 2°52 | 7° 8 | 25°49 | 21°40 | 19° 4 | 24°55 | 3°36 | 3°12 | 2°42 | 17°55 | 22°47 | W 8 |
| T 9 | 9 16 8 | 20°19'43 | 8♉27 | 19°42 | 3°57 | 6°48 | 25°44 | 21°46 | 19° 3 | 24°57 | 3°35 | 3°10 | 2°39 | 18° 2 | 22°43 | T 9 |
| F 10 | 9 20 4 | 21°20'21 | 21°33 | 21°30 | 5° 1 | 6°27 | 25°39 | 21°53 | 19° 2 | 24°59 | 3°34 | 3°D 9 | 2°36 | 18° 8 | 22°39 | F 10 |
| S 11 | 9 24 1 | 22°20'57 | 4♊16 | 23°18 | 6° 6 | 6° 6 | 25°33 | 21°59 | 19° 2 | 25° 1 | 3°32 | 3°R 9 | 2°32 | 18°15 | 22°36 | S 11 |
| S 12 | 9 27 57 | 23°21'32 | 16°40 | 25° 8 | 7°12 | 5°44 | 25°28 | 22° 5 | 19° 1 | 25° 3 | 3°31 | 3° 9 | 2°29 | 18°22 | 22°32 | S 12 |
| M13 | 9 31 54 | 24°22'05 | 28°51 | 26°58 | 8°17 | 5°22 | 25°22 | 22°12 | 19° 0 | 25° 5 | 3°30 | 3° 6 | 2°26 | 18°29 | 22°29 | M13 |
| T 14 | 9 35 50 | 25°22'35 | 10♋51 | 28°48 | 9°23 | 4°59 | 25°16 | 22°18 | 19° 0 | 25° 7 | 3°29 | 3° 1 | 2°23 | 18°35 | 22°25 | T 14 |
| W15 | 9 39 47 | 26°23'04 | 22°47 | 0♓40 | 10°29 | 4°37 | 25°10 | 22°24 | 18°59 | 25° 9 | 3°27 | 2°53 | 2°20 | 18°42 | 22°22 | W15 |
| T 16 | 9 43 44 | 27°23'32 | 4♌39 | 2°32 | 11°35 | 4°14 | 25° 4 | 22°31 | 18°59 | 25°11 | 3°26 | 2°42 | 2°16 | 18°49 | 22°19 | T 16 |
| F 17 | 9 47 40 | 28°23'57 | 16°30 | 4°24 | 12°41 | 3°50 | 24°58 | 22°37 | 18°58 | 25°13 | 3°25 | 2°29 | 2°13 | 18°55 | 22°15 | F 17 |
| S 18 | 9 51 37 | 29°24'21 | 28°23 | 6°17 | 13°48 | 3°27 | 24°52 | 22°43 | 18°58 | 25°15 | 3°24 | 2°14 | 2°10 | 19° 2 | 22°12 | S 18 |
| S 19 | 9 55 33 | 0♓24'43 | 10♍18 | 8°10 | 14°54 | 3° 3 | 24°45 | 22°49 | 18°57 | 25°17 | 3°22 | 1°59 | 2° 7 | 19° 9 | 22° 9 | S 19 |
| M20 | 9 59 30 | 1°25'04 | 22°17 | 10° 3 | 16° 1 | 2°39 | 24°39 | 22°55 | 18°57 | 25°19 | 3°21 | 1°45 | 2° 4 | 19°16 | 22° 6 | M20 |
| T 21 | 10 3 26 | 2°25'23 | 4♎21 | 11°55 | 17° 8 | 2°16 | 24°32 | 23° 1 | 18°57 | 25°21 | 3°20 | 1°34 | 2° 1 | 19°22 | 22° 3 | T 21 |
| W22 | 10 7 23 | 3°25'40 | 16°32 | 13°48 | 18°15 | 1°52 | 24°25 | 23° 7 | 18°56 | 25°24 | 3°19 | 1°24 | 1°57 | 19°29 | 22° 0 | W22 |
| T 23 | 10 11 19 | 4°25'56 | 28°51 | 15°40 | 19°23 | 1°28 | 24°19 | 23°13 | 18°56 | 25°26 | 3°18 | 1°18 | 1°54 | 19°36 | 21°58 | T 23 |
| F 24 | 10 15 16 | 5°26'10 | 11♏23 | 17°30 | 20°30 | 1° 4 | 24°12 | 23°19 | 18°56 | 25°28 | 3°17 | 1°15 | 1°51 | 19°43 | 21°55 | F 24 |
| S 25 | 10 19 13 | 6°26'23 | 24°10 | 19°20 | 21°38 | 0°41 | 24° 5 | 23°25 | 18°D56 | 25°30 | 3°15 | 1°14 | 1°48 | 19°49 | 21°52 | S 25 |
| S 26 | 10 23 9 | 7°26'34 | 7♐17 | 21° 8 | 22°46 | 0°17 | 23°57 | 23°31 | 18°56 | 25°32 | 3°14 | 1°14 | 1°45 | 19°56 | 21°50 | S 26 |
| M27 | 10 27 6 | 8°26'44 | 20°47 | 22°53 | 23°54 | 29♌54 | 23°50 | 23°37 | 18°56 | 25°34 | 3°13 | 1°14 | 1°42 | 20° 3 | 21°47 | M27 |
| T 28 | 10 31 2 | 9°26'52 | 4♑43 | 24°36 | 25° 2 | 29°31 | 23°43 | 23°42 | 18°56 | 25°37 | 3°12 | 1°12 | 1°38 | 20° 9 | 21°45 | T 28 |
| W29 | 10 34 59 | 10♓26'59 | 19♑ 5 | 26♓16 | 26♑10 | 29♌ 8 | 23♏35 | 23♑48 | 18♊57 | 25♓39 | 3♌11 | 1♐ 8 | 1♐35 | 20♌16 | 21♋43 | W29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17s 9 | 20s 5 | 3n 0 | 20s48 | 2s 1 | 20s 3 | 3n21 | 12n 2 | 4n13 | 2n47 | 1n27 | 21s46 | 0n 5 | 23n10 | 0n 8 | 3s18 | 1s18 | 24n42 | 5n31 | 21s 1 | 20s48 | 11n 0 | 13n49 | 7s45 |
| T 2 | 16 52 | 17 12 | 3 57 | 20 24 | 2 2 | 20 8 | 3 18 | 12 9 | 4 15 | 2 49 | 1 28 | 21 45 | 0 5 | 23 10 | 0 8 | 3 17 | 1 18 | 24 43 | 5 31 | 21 0 | 20 48 | 10 58 | 13 50 | 7 45 |
| F 3 | 16 35 | 13 7 | 4 38 | 19 58 | 2 4 | 20 13 | 3 14 | 12 17 | 4 16 | 2 51 | 1 28 | 21 44 | 0 5 | 23 10 | 0 8 | 3 16 | 1 18 | 24 43 | 5 31 | 20 58 | 20 47 | 10 56 | 13 51 | 7 45 |
| S 4 | 16 17 | 8 9 | 4 59 | 19 31 | 2 4 | 20 18 | 3 10 | 12 24 | 4 17 | 2 53 | 1 28 | 21 43 | 0 5 | 23 10 | 0 8 | 3 16 | 1 18 | 24 43 | 5 31 | 20 56 | 20 46 | 10 54 | 13 52 | 7 45 |
| S 5 | 15 59 | 2 43 | 4 59 | 19 2 | 2 5 | 20 22 | 3 6 | 12 32 | 4 18 | 2 55 | 1 28 | 21 42 | 0 5 | 23 9 | 0 8 | 3 15 | 1 18 | 24 44 | 5 32 | 20 54 | 20 46 | 10 51 | 13 53 | 7 44 |
| M 6 | 15 41 | 2n47 | 4 38 | 18 32 | 2 5 | 20 26 | 3 3 | 12 40 | 4 19 | 2 57 | 1 28 | 21 41 | 0 5 | 23 9 | 0 8 | 3 14 | 1 18 | 24 44 | 5 32 | 20 52 | 20 45 | 10 49 | 13 54 | 7 44 |
| T 7 | 15 22 | 7 58 | 4 0 | 18 0 | 2 4 | 20 29 | 2 59 | 12 48 | 4 20 | 2 59 | 1 29 | 21 40 | 0 5 | 23 9 | 0 8 | 3 13 | 1 18 | 24 44 | 5 32 | 20 51 | 20 45 | 10 47 | 13 55 | 7 44 |
| W 8 | 15 3 | 12 34 | 3 8 | 17 26 | 2 3 | 20 32 | 2 55 | 12 57 | 4 21 | 3 1 | 1 29 | 21 39 | 0 5 | 23 9 | 0 8 | 3 13 | 1 18 | 24 45 | 5 32 | 20 50 | 20 44 | 10 45 | 13 56 | 7 43 |
| T 9 | 14 44 | 16 21 | 2 7 | 16 52 | 2 2 | 20 35 | 2 50 | 13 5 | 4 22 | 3 4 | 1 29 | 21 38 | 0 5 | 23 9 | 0 8 | 3 12 | 1 18 | 24 45 | 5 32 | 20 49 | 20 43 | 10 42 | 13 57 | 7 43 |
| F 10 | 14 25 | 19 10 | 1 1 | 16 15 | 2 0 | 20 37 | 2 46 | 13 14 | 4 23 | 3 6 | 1 29 | 21 37 | 0 5 | 23 9 | 0 8 | 3 11 | 1 18 | 24 45 | 5 32 | 20 49 | 20 43 | 10 40 | 13 58 | 7 43 |
| S 11 | 14 5 | 20 56 | 0s 6 | 15 37 | 1 58 | 20 38 | 2 42 | 13 22 | 4 23 | 3 8 | 1 30 | 21 36 | 0 5 | 23 9 | 0 8 | 3 10 | 1 18 | 24 46 | 5 32 | 20 49 | 20 42 | 10 38 | 13 59 | 7 42 |
| S 12 | 13 45 | 21 38 | 1 11 | 14 58 | 1 55 | 20 39 | 2 38 | 13 31 | 4 24 | 3 11 | 1 30 | 21 35 | 0 5 | 23 9 | 0 8 | 3 9 | 1 18 | 24 46 | 5 32 | 20 49 | 20 41 | 10 36 | 14 0 | 7 42 |
| M13 | 13 25 | 21 17 | 2 11 | 14 17 | 1 51 | 20 40 | 2 34 | 13 39 | 4 24 | 3 13 | 1 30 | 21 34 | 0 4 | 23 9 | 0 8 | 3 9 | 1 18 | 24 46 | 5 32 | 20 49 | 20 41 | 10 34 | 14 1 | 7 41 |
| T 14 | 13 5 | 19 58 | 3 5 | 13 35 | 1 47 | 20 40 | 2 29 | 13 48 | 4 25 | 3 16 | 1 30 | 21 33 | 0 4 | 23 9 | 0 8 | 3 8 | 1 17 | 24 47 | 5 32 | 20 48 | 20 40 | 10 31 | 14 2 | 7 41 |
| W15 | 12 45 | 17 46 | 3 50 | 12 51 | 1 43 | 20 39 | 2 25 | 13 57 | 4 25 | 3 18 | 1 30 | 21 32 | 0 4 | 23 9 | 0 8 | 3 7 | 1 17 | 24 47 | 5 32 | 20 46 | 20 40 | 10 29 | 14 3 | 7 40 |
| T 16 | 12 24 | 14 51 | 4 25 | 12 6 | 1 37 | 20 38 | 2 21 | 14 5 | 4 25 | 3 21 | 1 31 | 21 31 | 0 4 | 23 9 | 0 8 | 3 6 | 1 17 | 24 47 | 5 32 | 20 44 | 20 39 | 10 27 | 14 4 | 7 40 |
| F 17 | 12 3 | 11 20 | 4 48 | 11 20 | 1 32 | 20 37 | 2 16 | 14 14 | 4 25 | 3 23 | 1 31 | 21 30 | 0 4 | 23 9 | 0 8 | 3 5 | 1 17 | 24 48 | 5 32 | 20 41 | 20 38 | 10 25 | 14 4 | 7 40 |
| S 18 | 11 42 | 7 23 | 4 59 | 10 33 | 1 25 | 20 34 | 2 12 | 14 22 | 4 25 | 3 26 | 1 31 | 21 30 | 0 4 | 23 9 | 0 8 | 3 4 | 1 17 | 24 48 | 5 32 | 20 39 | 20 38 | 10 22 | 14 5 | 7 39 |
| S 19 | 11 21 | 3 9 | 4 56 | 9 44 | 1 18 | 20 32 | 2 7 | 14 31 | 4 25 | 3 29 | 1 31 | 21 29 | 0 4 | 23 9 | 0 8 | 3 4 | 1 17 | 24 48 | 5 32 | 20 36 | 20 37 | 10 20 | 14 6 | 7 39 |
| M20 | 10 59 | 1s14 | 4 41 | 8 54 | 1 11 | 20 29 | 2 3 | 14 39 | 4 25 | 3 32 | 1 31 | 21 28 | 0 4 | 23 9 | 0 8 | 3 3 | 1 17 | 24 49 | 5 32 | 20 33 | 20 36 | 10 18 | 14 7 | 7 38 |
| T 21 | 10 38 | 5 35 | 4 12 | 8 4 | 1 2 | 20 25 | 1 59 | 14 47 | 4 24 | 3 34 | 1 31 | 21 27 | 0 4 | 23 9 | 0 8 | 3 2 | 1 17 | 24 49 | 5 32 | 20 30 | 20 36 | 10 16 | 14 8 | 7 38 |
| W22 | 10 16 | 9 46 | 3 32 | 7 12 | 0 53 | 20 21 | 1 54 | 14 56 | 4 24 | 3 37 | 1 32 | 21 26 | 0 4 | 23 9 | 0 8 | 3 1 | 1 17 | 24 49 | 5 32 | 20 29 | 20 35 | 10 13 | 14 9 | 7 37 |
| T 23 | 9 54 | 13 36 | 2 42 | 6 20 | 0 44 | 20 16 | 1 50 | 15 4 | 4 23 | 3 40 | 1 32 | 21 25 | 0 4 | 23 9 | 0 8 | 3 0 | 1 17 | 24 49 | 5 32 | 20 27 | 20 35 | 10 11 | 14 10 | 7 36 |
| F 24 | 9 32 | 16 54 | 1 43 | 5 28 | 0 34 | 20 11 | 1 45 | 15 12 | 4 22 | 3 43 | 1 32 | 21 24 | 0 4 | 23 9 | 0 8 | 2 59 | 1 17 | 24 50 | 5 32 | 20 27 | 20 34 | 10 9 | 14 11 | 7 36 |
| S 25 | 9 10 | 19 27 | 0 37 | 4 35 | 0 23 | 20 5 | 1 41 | 15 19 | 4 22 | 3 46 | 1 32 | 21 23 | 0 4 | 23 9 | 0 8 | 2 58 | 1 17 | 24 50 | 5 32 | 20 26 | 20 33 | 10 7 | 14 12 | 7 35 |
| S 26 | 8 47 | 21 2 | 0n32 | 3 42 | 0 12 | 19 58 | 1 36 | 15 27 | 4 21 | 3 49 | 1 32 | 21 22 | 0 4 | 23 9 | 0 8 | 2 58 | 1 17 | 24 50 | 5 32 | 20 26 | 20 33 | 10 4 | 14 13 | 7 35 |
| M27 | 8 25 | 21 28 | 1 41 | 2 49 | 0n 0 | 19 51 | 1 32 | 15 34 | 4 20 | 3 52 | 1 32 | 21 21 | 0 4 | 23 9 | 0 8 | 2 57 | 1 17 | 24 51 | 5 32 | 20 26 | 20 32 | 10 2 | 14 14 | 7 34 |
| T 28 | 8 2 | 20 37 | 2 47 | 1 57 | 0 13 | 19 44 | 1 27 | 15 41 | 4 18 | 3 55 | 1 32 | 21 20 | 0 3 | 23 9 | 0 8 | 2 56 | 1 17 | 24 51 | 5 32 | 20 26 | 20 31 | 10 0 | 14 15 | 7 34 |
| W29 | 7s40 | 18s25 | 3n44 | 1s 6 | 0n26 | 19s36 | 1n23 | 15n48 | 4n17 | 3n58 | 1n33 | 21s19 | 0n 3 | 23n 9 | 0n 8 | 2s55 | 1s17 | 24n51 | 5n32 | 20s25 | 20s31 | 9n58 | 14n16 | 7s33 |

Julian Day Number = 2340542.5, Delta T = 15.75 sec
Ecliptic obliquity = 23°28'39, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'52, Lahiri = 19°36'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## MARCH 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 10 38 55 | 11♓27'04 | 3♒51 | 27♓52 | 27♑18 | 28°R46 | 23°R28 | 23♑53 | 18♊57 | 25♓41 | 3°R10 | 1°R 1 | 1♐32 | 20♌23 | 21°R41 | T 1 |
| F 2 | 10 42 52 | 12°27'07 | 18°56 | 29°24 | 28°27 | 28♌24 | 23♍21 | 23°59 | 18°57 | 25°43 | 3♌ 9 | 0♐51 | 1°29 | 20°30 | 21♋38 | F 2 |
| S 3 | 10 46 48 | 13°27'09 | 4♓11 | 0♈51 | 29°35 | 28° 2 | 23°13 | 24° 4 | 18°57 | 25°45 | 3° 8 | 0°40 | 1°26 | 20°36 | 21°36 | S 3 |
| S 4 | 10 50 45 | 14°27'08 | 19°24 | 2°13 | 0♒44 | 27°41 | 23° 5 | 24°10 | 18°58 | 25°48 | 3° 7 | 0°29 | 1°22 | 20°43 | 21°35 | S 4 |
| M 5 | 10 54 42 | 15°27'06 | 4♈25 | 3°29 | 1°53 | 27°21 | 22°58 | 24°15 | 18°58 | 25°50 | 3° 6 | 0°19 | 1°19 | 20°50 | 21°33 | M 5 |
| T 6 | 10 58 38 | 16°27'02 | 19° 5 | 4°38 | 3° 2 | 27° 0 | 22°50 | 24°20 | 18°59 | 25°52 | 3° 5 | 0°11 | 1°16 | 20°56 | 21°31 | T 6 |
| W 7 | 11 2 35 | 17°26'55 | 3♉17 | 5°41 | 4°11 | 26°41 | 22°42 | 24°25 | 18°59 | 25°54 | 3° 4 | 0° 6 | 1°13 | 21° 3 | 21°29 | W 7 |
| T 8 | 11 6 31 | 18°26'47 | 17° 0 | 6°37 | 5°20 | 26°22 | 22°35 | 24°31 | 19° 0 | 25°57 | 3° 3 | 0° 3 | 1°10 | 21°10 | 21°28 | T 8 |
| F 9 | 11 10 28 | 19°26'36 | 0♊13 | 7°25 | 6°29 | 26° 4 | 22°27 | 24°36 | 19° 1 | 25°59 | 3° 2 | 0°D 3 | 1° 7 | 21°17 | 21°27 | F 9 |
| S 10 | 11 14 24 | 20°26'23 | 13° 1 | 8° 5 | 7°39 | 25°46 | 22°19 | 24°41 | 19° 1 | 26° 1 | 3° 1 | 0° 3 | 1° 3 | 21°23 | 21°25 | S 10 |
| S 11 | 11 18 21 | 21°26'07 | 25°28 | 8°37 | 8°48 | 25°29 | 22°11 | 24°46 | 19° 2 | 26° 3 | 3° 1 | 0°R 3 | 1° 0 | 21°30 | 21°24 | S 11 |
| M12 | 11 22 17 | 22°25'50 | 7♋39 | 9° 0 | 9°58 | 25°12 | 22° 3 | 24°50 | 19° 3 | 26° 6 | 3° 0 | 0° 2 | 0°57 | 21°37 | 21°23 | M12 |
| T 13 | 11 26 14 | 23°25'30 | 19°39 | 9°16 | 11° 7 | 24°57 | 21°56 | 24°55 | 19° 4 | 26° 8 | 2°59 | 29♏59 | 0°54 | 21°43 | 21°22 | T 13 |
| W14 | 11 30 10 | 24°25'08 | 1♌32 | 9°R23 | 12°17 | 24°42 | 21°48 | 25° 0 | 19° 5 | 26°10 | 2°58 | 29°53 | 0°51 | 21°50 | 21°21 | W14 |
| T 15 | 11 34 7 | 25°24'43 | 13°22 | 9°21 | 13°27 | 24°28 | 21°40 | 25° 5 | 19° 6 | 26°13 | 2°57 | 29°44 | 0°47 | 21°57 | 21°20 | T 15 |
| F 16 | 11 38 4 | 26°24'16 | 25°14 | 9°12 | 14°36 | 24°14 | 21°32 | 25° 9 | 19° 7 | 26°15 | 2°57 | 29°34 | 0°44 | 22° 4 | 21°19 | F 16 |
| S 17 | 11 42 0 | 27°23'48 | 7♍ 9 | 8°56 | 15°46 | 24° 1 | 21°25 | 25°14 | 19° 8 | 26°17 | 2°56 | 29°22 | 0°41 | 22°10 | 21°19 | S 17 |
| S 18 | 11 45 57 | 28°23'17 | 19°10 | 8°32 | 16°56 | 23°49 | 21°17 | 25°18 | 19° 9 | 26°19 | 2°55 | 29°10 | 0°38 | 22°17 | 21°18 | S 18 |
| M19 | 11 49 53 | 29°22'43 | 1♎17 | 8° 2 | 18° 6 | 23°38 | 21° 9 | 25°22 | 19°10 | 26°22 | 2°55 | 28°59 | 0°35 | 22°24 | 21°18 | M19 |
| T 20 | 11 53 50 | 0♈22'08 | 13°31 | 7°26 | 19°17 | 23°28 | 21° 2 | 25°27 | 19°11 | 26°24 | 2°54 | 28°49 | 0°32 | 22°31 | 21°17 | T 20 |
| W21 | 11 57 46 | 1°21'31 | 25°55 | 6°45 | 20°27 | 23°18 | 20°54 | 25°31 | 19°12 | 26°26 | 2°53 | 28°42 | 0°28 | 22°37 | 21°17 | W21 |
| T 22 | 12 1 43 | 2°20'52 | 8♏28 | 6° 0 | 21°37 | 23° 9 | 20°47 | 25°35 | 19°14 | 26°28 | 2°53 | 28°38 | 0°25 | 22°44 | 21°17 | T 22 |
| F 23 | 12 5 39 | 3°20'11 | 21°12 | 5°12 | 22°48 | 23° 1 | 20°39 | 25°39 | 19°15 | 26°31 | 2°52 | 28°36 | 0°22 | 22°51 | 21°D17 | F 23 |
| S 24 | 12 9 36 | 4°19'28 | 4♐ 9 | 4°22 | 23°58 | 22°54 | 20°32 | 25°43 | 19°17 | 26°33 | 2°52 | 28°D35 | 0°19 | 22°57 | 21°17 | S 24 |
| S 25 | 12 13 33 | 5°18'44 | 17°21 | 3°31 | 25° 8 | 22°47 | 20°24 | 25°47 | 19°18 | 26°35 | 2°51 | 28°36 | 0°16 | 23° 4 | 21°17 | S 25 |
| M26 | 12 17 29 | 6°17'58 | 0♑51 | 2°41 | 26°19 | 22°41 | 20°17 | 25°51 | 19°20 | 26°37 | 2°51 | 28°R37 | 0°13 | 23°11 | 21°18 | M26 |
| T 27 | 12 21 26 | 7°17'10 | 14°40 | 1°51 | 27°30 | 22°36 | 20°10 | 25°54 | 19°21 | 26°40 | 2°50 | 28°37 | 0° 9 | 23°18 | 21°18 | T 27 |
| W28 | 12 25 22 | 8°16'20 | 28°50 | 1° 4 | 28°40 | 22°32 | 20° 3 | 25°58 | 19°23 | 26°42 | 2°50 | 28°35 | 0° 6 | 23°24 | 21°18 | W28 |
| T 29 | 12 29 19 | 9°15'28 | 13♒18 | 0°19 | 29°51 | 22°29 | 19°56 | 26° 2 | 19°24 | 26°44 | 2°49 | 28°31 | 0° 3 | 23°31 | 21°19 | T 29 |
| F 30 | 12 33 15 | 10°14'35 | 28° 1 | 29♓38 | 1♓ 2 | 22°26 | 19°49 | 26° 5 | 19°26 | 26°46 | 2°49 | 28°26 | 29♏59 | 23°38 | 21°20 | F 30 |
| S 31 | 12 37 12 | 11♈13'40 | 12♓54 | 29♓ 1 | 2♓13 | 22♌24 | 19♍42 | 26♑ 9 | 19♊28 | 26♓49 | 2♌48 | 28♏19 | 29♏57 | 23♌44 | 21♋21 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 7s17 | 14s59 | 4n28 | 0s16 | 0n39 | 19s27 | 1n18 | 15n55 | 4n16 | 4n 1 | 1n33 | 21s18 | 0n 3 | 23n 9 | 0n 8 | 2s54 | 1s17 | 24n51 | 5n32 | 20s24 | 20s30 | 9n55 | 14n17 | 7s32 |
| F 2 | 6 54 | 10 30 | 4 54 | 0n33 | 0 52 | 19 18 | 1 14 | 16 1 | 4 15 | 4 4 | 1 33 | 21 18 | 0 3 | 23 9 | 0 8 | 2 53 | 1 17 | 24 51 | 5 32 | 20 22 | 20 29 | 9 53 | 14 18 | 7 32 |
| S 3 | 6 31 | 5 20 | 5 0 | 1 21 | 1 6 | 19 8 | 1 9 | 16 8 | 4 13 | 4 7 | 1 33 | 21 17 | 0 3 | 23 9 | 0 8 | 2 52 | 1 17 | 24 52 | 5 32 | 20 19 | 20 29 | 9 51 | 14 19 | 7 31 |
| S 4 | 6 8 | 0n10 | 4 45 | 2 6 | 1 19 | 18 58 | 1 5 | 16 14 | 4 12 | 4 10 | 1 33 | 21 16 | 0 3 | 23 9 | 0 8 | 2 51 | 1 17 | 24 52 | 5 32 | 20 17 | 20 28 | 9 49 | 14 19 | 7 31 |
| M 5 | 5 45 | 5 35 | 4 10 | 2 48 | 1 33 | 18 47 | 1 0 | 16 19 | 4 10 | 4 13 | 1 33 | 21 15 | 0 3 | 23 9 | 0 8 | 2 51 | 1 17 | 24 52 | 5 32 | 20 15 | 20 27 | 9 46 | 14 20 | 7 30 |
| T 6 | 5 21 | 10 33 | 3 19 | 3 29 | 1 47 | 18 36 | 0 56 | 16 25 | 4 8 | 4 16 | 1 33 | 21 14 | 0 3 | 23 9 | 0 8 | 2 50 | 1 17 | 24 52 | 5 32 | 20 13 | 20 27 | 9 44 | 14 21 | 7 29 |
| W 7 | 4 58 | 14 46 | 2 17 | 4 6 | 2 0 | 18 24 | 0 52 | 16 30 | 4 6 | 4 20 | 1 33 | 21 13 | 0 3 | 23 9 | 0 8 | 2 49 | 1 17 | 24 52 | 5 32 | 20 12 | 20 26 | 9 42 | 14 22 | 7 29 |
| T 8 | 4 35 | 18 2 | 1 9 | 4 40 | 2 13 | 18 12 | 0 47 | 16 35 | 4 4 | 4 23 | 1 33 | 21 12 | 0 3 | 23 9 | 0 8 | 2 48 | 1 17 | 24 53 | 5 32 | 20 12 | 20 26 | 9 40 | 14 23 | 7 28 |
| F 9 | 4 11 | 20 13 | 0s 1 | 5 10 | 2 25 | 17 59 | 0 43 | 16 39 | 4 3 | 4 26 | 1 33 | 21 12 | 0 3 | 23 9 | 0 8 | 2 47 | 1 17 | 24 53 | 5 31 | 20 12 | 20 25 | 9 37 | 14 24 | 7 27 |
| S 10 | 3 48 | 21 16 | 1 8 | 5 37 | 2 37 | 17 46 | 0 39 | 16 43 | 4 1 | 4 29 | 1 33 | 21 11 | 0 3 | 23 9 | 0 8 | 2 46 | 1 17 | 24 53 | 5 31 | 20 12 | 20 24 | 9 35 | 14 25 | 7 27 |
| S 11 | 3 24 | 21 13 | 2 11 | 5 59 | 2 48 | 17 32 | 0 34 | 16 47 | 3 58 | 4 32 | 1 33 | 21 10 | 0 3 | 23 9 | 0 8 | 2 45 | 1 17 | 24 53 | 5 31 | 20 12 | 20 24 | 9 33 | 14 26 | 7 26 |
| M12 | 3 1 | 20 10 | 3 6 | 6 18 | 2 58 | 17 18 | 0 30 | 16 51 | 3 56 | 4 35 | 1 34 | 21 9 | 0 3 | 23 9 | 0 8 | 2 44 | 1 17 | 24 53 | 5 31 | 20 11 | 20 23 | 9 31 | 14 26 | 7 25 |
| T 13 | 2 37 | 18 13 | 3 52 | 6 32 | 3 7 | 17 3 | 0 26 | 16 54 | 3 54 | 4 38 | 1 34 | 21 8 | 0 2 | 23 9 | 0 8 | 2 43 | 1 17 | 24 53 | 5 31 | 20 11 | 20 22 | 9 28 | 14 27 | 7 25 |
| W14 | 2 13 | 15 31 | 4 27 | 6 42 | 3 14 | 16 48 | 0 22 | 16 57 | 3 52 | 4 41 | 1 34 | 21 8 | 0 2 | 23 9 | 0 8 | 2 42 | 1 17 | 24 54 | 5 31 | 20 9 | 20 22 | 9 26 | 14 28 | 7 24 |
| T 15 | 1 50 | 12 11 | 4 51 | 6 47 | 3 21 | 16 32 | 0 18 | 17 0 | 3 50 | 4 45 | 1 34 | 21 7 | 0 2 | 23 9 | 0 8 | 2 42 | 1 17 | 24 54 | 5 31 | 20 8 | 20 21 | 9 24 | 14 29 | 7 23 |
| F 16 | 1 26 | 8 23 | 5 2 | 6 48 | 3 25 | 16 15 | 0 14 | 17 2 | 3 47 | 4 48 | 1 34 | 21 6 | 0 2 | 23 10 | 0 8 | 2 41 | 1 17 | 24 54 | 5 31 | 20 5 | 20 20 | 9 22 | 14 30 | 7 23 |
| S 17 | 1 2 | 4 15 | 5 0 | 6 44 | 3 29 | 15 59 | 0 10 | 17 4 | 3 45 | 4 51 | 1 34 | 21 5 | 0 2 | 23 10 | 0 8 | 2 40 | 1 17 | 24 54 | 5 31 | 20 3 | 20 20 | 9 19 | 14 30 | 7 22 |
| S 18 | 0 39 | 0s 4 | 4 45 | 6 36 | 3 30 | 15 42 | 0 6 | 17 6 | 3 43 | 4 54 | 1 34 | 21 5 | 0 2 | 23 10 | 0 8 | 2 39 | 1 17 | 24 54 | 5 31 | 20 0 | 20 19 | 9 17 | 14 31 | 7 21 |
| M19 | 0 15 | 4 26 | 4 17 | 6 24 | 3 30 | 15 24 | 0 2 | 17 8 | 3 40 | 4 57 | 1 34 | 21 4 | 0 2 | 23 10 | 0 8 | 2 38 | 1 17 | 24 54 | 5 31 | 19 58 | 20 18 | 9 15 | 14 32 | 7 21 |
| T 20 | 0n 9 | 8 40 | 3 36 | 6 8 | 3 28 | 15 6 | 0s 2 | 17 9 | 3 38 | 5 0 | 1 34 | 21 3 | 0 2 | 23 10 | 0 8 | 2 37 | 1 17 | 24 54 | 5 31 | 19 56 | 20 18 | 9 13 | 14 33 | 7 20 |
| W21 | 0 32 | 12 36 | 2 45 | 5 48 | 3 24 | 14 47 | 0 6 | 17 10 | 3 36 | 5 3 | 1 34 | 21 2 | 0 2 | 23 10 | 0 8 | 2 36 | 1 17 | 24 54 | 5 31 | 19 54 | 20 17 | 9 10 | 14 33 | 7 19 |
| T 22 | 0 56 | 16 1 | 1 46 | 5 25 | 3 19 | 14 28 | 0 10 | 17 10 | 3 33 | 5 6 | 1 34 | 21 2 | 0 2 | 23 10 | 0 8 | 2 35 | 1 17 | 24 55 | 5 31 | 19 53 | 20 16 | 9 8 | 14 34 | 7 18 |
| F 23 | 1 20 | 18 43 | 0 40 | 5 0 | 3 11 | 14 9 | 0 13 | 17 11 | 3 31 | 5 9 | 1 34 | 21 1 | 0 2 | 23 10 | 0 8 | 2 34 | 1 17 | 24 55 | 5 31 | 19 53 | 20 16 | 9 6 | 14 35 | 7 18 |
| S 24 | 1 43 | 20 31 | 0n30 | 4 32 | 3 2 | 13 49 | 0 17 | 17 11 | 3 28 | 5 11 | 1 33 | 21 0 | 0 2 | 23 10 | 0 8 | 2 33 | 1 17 | 24 55 | 5 31 | 19 53 | 20 15 | 9 4 | 14 35 | 7 17 |
| S 25 | 2 7 | 21 14 | 1 39 | 4 2 | 2 52 | 13 29 | 0 20 | 17 11 | 3 26 | 5 14 | 1 33 | 21 0 | 0 2 | 23 11 | 0 8 | 2 33 | 1 17 | 24 55 | 5 31 | 19 53 | 20 14 | 9 1 | 14 36 | 7 16 |
| M26 | 2 30 | 20 44 | 2 44 | 3 31 | 2 40 | 13 8 | 0 24 | 17 10 | 3 23 | 5 17 | 1 33 | 20 59 | 0 1 | 23 11 | 0 8 | 2 32 | 1 17 | 24 55 | 5 31 | 19 53 | 20 14 | 8 59 | 14 37 | 7 16 |
| T 27 | 2 54 | 19 0 | 3 42 | 2 59 | 2 27 | 12 47 | 0 27 | 17 10 | 3 21 | 5 20 | 1 33 | 20 59 | 0 1 | 23 11 | 0 8 | 2 31 | 1 17 | 24 55 | 5 31 | 19 53 | 20 13 | 8 57 | 14 38 | 7 15 |
| W28 | 3 17 | 16 4 | 4 27 | 2 27 | 2 13 | 12 26 | 0 31 | 17 9 | 3 18 | 5 23 | 1 33 | 20 58 | 0 1 | 23 11 | 0 8 | 2 30 | 1 17 | 24 55 | 5 31 | 19 53 | 20 12 | 8 55 | 14 38 | 7 14 |
| T 29 | 3 40 | 12 7 | 4 57 | 1 56 | 1 58 | 12 4 | 0 34 | 17 7 | 3 16 | 5 25 | 1 33 | 20 57 | 0 1 | 23 11 | 0 8 | 2 29 | 1 18 | 24 55 | 5 30 | 19 52 | 20 12 | 8 52 | 14 39 | 7 13 |
| F 30 | 4 4 | 7 22 | 5 7 | 1 25 | 1 43 | 11 42 | 0 37 | 17 6 | 3 13 | 5 28 | 1 33 | 20 57 | 0 1 | 23 11 | 0 8 | 2 28 | 1 18 | 24 55 | 5 30 | 19 50 | 20 11 | 8 50 | 14 39 | 7 13 |
| S 31 | 4n27 | 2s 9 | 4n58 | 0n56 | 1n27 | 11s20 | 0s41 | 17n 4 | 3n11 | 5n31 | 1n33 | 20s56 | 0n 1 | 23n11 | 0n 8 | 2s27 | 1s18 | 24n55 | 5n30 | 19s49 | 20s10 | 8n48 | 14n40 | 7s12 |

Julian Day Number = 2340571.5, Delta T = 15.72 sec
Ecliptic obliquity = 23°28'40, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°29'56, Lahiri = 19°36'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## APRIL 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 12 41 8 | 12♈12'42 | 27♓48 | 28°R28 | 3♓24 | 22°R23 | 19°R35 | 26♑12 | 19♊30 | 26♓51 | 2°R48 | 28°R11 | 29♏53 | 23♌51 | 21♋21 | S 1 |
| M 2 | 12 45 5 | 13°11'43 | 12♈34 | 28♓ 0 | 4°35 | 22°D23 | 19♍28 | 26°15 | 19°32 | 26°53 | 2♌48 | 28♏ 5 | 29°50 | 23°58 | 21°22 | M 2 |
| T 3 | 12 49 2 | 14°10'42 | 27° 5 | 27°38 | 5°46 | 22♌23 | 19°22 | 26°18 | 19°33 | 26°55 | 2°47 | 27°59 | 29°47 | 24° 5 | 21°24 | T 3 |
| W 4 | 12 52 58 | 15° 9'39 | 11♉14 | 27°21 | 6°57 | 22°24 | 19°15 | 26°21 | 19°35 | 26°57 | 2°47 | 27°56 | 29°44 | 24°11 | 21°25 | W 4 |
| T 5 | 12 56 55 | 16° 8'33 | 24°57 | 27° 9 | 8° 8 | 22°26 | 19° 9 | 26°24 | 19°37 | 27° 0 | 2°47 | 27°D55 | 29°41 | 24°18 | 21°26 | T 5 |
| F 6 | 13 0 51 | 17° 7'26 | 8♊15 | 27° 3 | 9°19 | 22°28 | 19° 3 | 26°27 | 19°39 | 27° 2 | 2°47 | 27°55 | 29°38 | 24°25 | 21°27 | F 6 |
| S 7 | 13 4 48 | 18° 6'16 | 21° 8 | 27°D 2 | 10°30 | 22°32 | 18°57 | 26°30 | 19°41 | 27° 4 | 2°46 | 27°57 | 29°34 | 24°32 | 21°29 | S 7 |
| S 8 | 13 8 44 | 19° 5'04 | 3♋40 | 27° 6 | 11°41 | 22°35 | 18°51 | 26°33 | 19°44 | 27° 6 | 2°46 | 27°58 | 29°31 | 24°38 | 21°31 | S 8 |
| M 9 | 13 12 41 | 20° 3'50 | 15°55 | 27°16 | 12°53 | 22°40 | 18°45 | 26°35 | 19°46 | 27° 8 | 2°46 | 27°R59 | 29°28 | 24°45 | 21°32 | M 9 |
| T 10 | 13 16 37 | 21° 2'33 | 27°57 | 27°30 | 14° 4 | 22°45 | 18°40 | 26°38 | 19°48 | 27°10 | 2°46 | 27°59 | 29°25 | 24°52 | 21°34 | T 10 |
| W11 | 13 20 34 | 22° 1'14 | 9♌52 | 27°49 | 15°15 | 22°51 | 18°34 | 26°40 | 19°50 | 27°12 | 2°46 | 27°57 | 29°22 | 24°58 | 21°36 | W11 |
| T 12 | 13 24 31 | 22°59'53 | 21°43 | 28°13 | 16°26 | 22°58 | 18°29 | 26°42 | 19°52 | 27°15 | 2°46 | 27°54 | 29°18 | 25° 5 | 21°38 | T 12 |
| F 13 | 13 28 27 | 23°58'30 | 3♍37 | 28°41 | 17°38 | 23° 5 | 18°23 | 26°45 | 19°55 | 27°17 | 2°46 | 27°49 | 29°15 | 25°12 | 21°40 | F 13 |
| S 14 | 13 32 24 | 24°57'04 | 15°35 | 29°14 | 18°49 | 23°13 | 18°18 | 26°47 | 19°57 | 27°19 | 2°D46 | 27°44 | 29°12 | 25°19 | 21°42 | S 14 |
| S 15 | 13 36 20 | 25°55'37 | 27°41 | 29°50 | 20° 1 | 23°21 | 18°13 | 26°49 | 19°59 | 27°21 | 2°46 | 27°38 | 29° 9 | 25°25 | 21°44 | S 15 |
| M16 | 13 40 17 | 26°54'07 | 9♎57 | 0♈31 | 21°12 | 23°31 | 18° 8 | 26°51 | 20° 2 | 27°23 | 2°46 | 27°33 | 29° 6 | 25°32 | 21°47 | M16 |
| T 17 | 13 44 13 | 27°52'35 | 22°24 | 1°15 | 22°24 | 23°40 | 18° 4 | 26°53 | 20° 4 | 27°25 | 2°46 | 27°28 | 29° 3 | 25°39 | 21°49 | T 17 |
| W18 | 13 48 10 | 28°51'02 | 5♏ 4 | 2° 2 | 23°35 | 23°50 | 17°59 | 26°54 | 20° 7 | 27°27 | 2°46 | 27°25 | 28°59 | 25°45 | 21°52 | W18 |
| T 19 | 13 52 6 | 29°49'26 | 17°56 | 2°53 | 24°47 | 24° 1 | 17°55 | 26°56 | 20° 9 | 27°29 | 2°46 | 27°24 | 28°56 | 25°52 | 21°54 | T 19 |
| F 20 | 13 56 3 | 0♉47'49 | 1♐ 0 | 3°47 | 25°58 | 24°13 | 17°51 | 26°58 | 20°12 | 27°31 | 2°46 | 27°D23 | 28°53 | 25°59 | 21°57 | F 20 |
| S 21 | 13 59 59 | 1°46'11 | 14°17 | 4°44 | 27°10 | 24°24 | 17°47 | 26°59 | 20°15 | 27°33 | 2°46 | 27°24 | 28°50 | 26° 6 | 22° 0 | S 21 |
| S 22 | 14 3 56 | 2°44'30 | 27°47 | 5°44 | 28°22 | 24°37 | 17°43 | 27° 1 | 20°17 | 27°35 | 2°47 | 27°26 | 28°47 | 26°12 | 22° 3 | S 22 |
| M23 | 14 7 53 | 3°42'48 | 11♑29 | 6°47 | 29°33 | 24°50 | 17°39 | 27° 2 | 20°20 | 27°37 | 2°47 | 27°27 | 28°44 | 26°19 | 22° 6 | M23 |
| T 24 | 14 11 49 | 4°41'05 | 25°24 | 7°53 | 0♈45 | 25° 3 | 17°36 | 27° 3 | 20°23 | 27°39 | 2°47 | 27°28 | 28°40 | 26°26 | 22° 9 | T 24 |
| W25 | 14 15 46 | 5°39'20 | 9♒30 | 9° 1 | 1°57 | 25°17 | 17°33 | 27° 4 | 20°25 | 27°40 | 2°47 | 27°R28 | 28°37 | 26°33 | 22°12 | W25 |
| T 26 | 14 19 42 | 6°37'33 | 23°46 | 10°12 | 3° 9 | 25°32 | 17°29 | 27° 5 | 20°28 | 27°42 | 2°48 | 27°27 | 28°34 | 26°39 | 22°16 | T 26 |
| F 27 | 14 23 39 | 7°35'45 | 8♓10 | 11°26 | 4°21 | 25°47 | 17°26 | 27° 6 | 20°31 | 27°44 | 2°48 | 27°26 | 28°31 | 26°46 | 22°19 | F 27 |
| S 28 | 14 27 35 | 8°33'55 | 22°37 | 12°41 | 5°32 | 26° 2 | 17°24 | 27° 7 | 20°34 | 27°46 | 2°48 | 27°24 | 28°28 | 26°53 | 22°22 | S 28 |
| S 29 | 14 31 32 | 9°32'04 | 7♈ 3 | 13°59 | 6°44 | 26°18 | 17°21 | 27° 7 | 20°37 | 27°48 | 2°49 | 27°21 | 28°24 | 26°59 | 22°26 | S 29 |
| M30 | 14 35 28 | 10♉30'12 | 21♈23 | 15♈20 | 7♈56 | 26♌34 | 17♍19 | 27♑ 8 | 20♊40 | 27♓50 | 2♌49 | 27♏19 | 28♏21 | 27♌ 6 | 22♋30 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 4n50 | 3n13 | 4n28 | 0n28 | 1n11 | 10s57 | 0s44 | 17n 2 | 3n 8 | 5n33 | 1n33 | 20s56 | 0n 1 | 23n11 | 0n 8 | 2s26 | 1s18 | 24n55 | 5n30 | 19s47 | 20s10 | 8n45 | 14n41 | 7s11 |
| M 2 | 5 13 | 8 21 | 3 40 | 0 2 | 0 55 | 10 34 | 0 47 | 17 0 | 3 6 | 5 36 | 1 33 | 20 55 | 0 1 | 23 12 | 0 8 | 2 26 | 1 18 | 24 55 | 5 30 | 19 46 | 20 9 | 8 43 | 14 41 | 7 11 |
| T 3 | 5 36 | 12 55 | 2 39 | 0s21 | 0 39 | 10 11 | 0 50 | 16 57 | 3 3 | 5 38 | 1 33 | 20 55 | 0 1 | 23 12 | 0 8 | 2 25 | 1 18 | 24 55 | 5 30 | 19 45 | 20 8 | 8 41 | 14 42 | 7 10 |
| W 4 | 5 59 | 16 38 | 1 29 | 0 43 | 0 23 | 9 48 | 0 53 | 16 55 | 3 1 | 5 41 | 1 33 | 20 54 | 0 1 | 23 12 | 0 8 | 2 24 | 1 18 | 24 55 | 5 30 | 19 44 | 20 8 | 8 39 | 14 42 | 7 9 |
| T 5 | 6 22 | 19 18 | 0 16 | 1 1 | 0 7 | 9 24 | 0 56 | 16 52 | 2 58 | 5 43 | 1 33 | 20 54 | 0 1 | 23 12 | 0 8 | 2 23 | 1 18 | 24 55 | 5 30 | 19 44 | 20 7 | 8 36 | 14 43 | 7 8 |
| F 6 | 6 44 | 20 48 | 0s56 | 1 18 | 0s 8 | 8 59 | 0 58 | 16 49 | 2 56 | 5 45 | 1 32 | 20 53 | 0 1 | 23 12 | 0 8 | 2 22 | 1 18 | 24 55 | 5 30 | 19 44 | 20 6 | 8 34 | 14 43 | 7 8 |
| S 7 | 7 7 | 21 8 | 2 3 | 1 32 | 0 23 | 8 35 | 1 1 | 16 45 | 2 53 | 5 48 | 1 32 | 20 53 | 0 1 | 23 12 | 0 8 | 2 21 | 1 18 | 24 55 | 5 30 | 19 44 | 20 5 | 8 32 | 14 44 | 7 7 |
| S 8 | 7 29 | 20 24 | 3 2 | 1 43 | 0 37 | 8 10 | 1 4 | 16 42 | 2 51 | 5 50 | 1 32 | 20 52 | 0 1 | 23 13 | 0 8 | 2 21 | 1 18 | 24 55 | 5 30 | 19 44 | 20 5 | 8 30 | 14 44 | 7 6 |
| M 9 | 7 51 | 18 42 | 3 51 | 1 51 | 0 50 | 7 45 | 1 6 | 16 38 | 2 48 | 5 52 | 1 32 | 20 52 | 0 0 | 23 13 | 0 8 | 2 20 | 1 18 | 24 55 | 5 30 | 19 45 | 20 4 | 8 27 | 14 45 | 7 6 |
| T 10 | 8 13 | 16 12 | 4 30 | 1 57 | 1 3 | 7 20 | 1 9 | 16 34 | 2 46 | 5 54 | 1 32 | 20 51 | 0 0 | 23 13 | 0 8 | 2 19 | 1 18 | 24 55 | 5 30 | 19 45 | 20 3 | 8 25 | 14 45 | 7 5 |
| W11 | 8 35 | 13 3 | 4 56 | 2 1 | 1 15 | 6 55 | 1 11 | 16 30 | 2 44 | 5 56 | 1 32 | 20 51 | 0 0 | 23 13 | 0 8 | 2 18 | 1 18 | 24 55 | 5 30 | 19 44 | 20 3 | 8 23 | 14 46 | 7 4 |
| T 12 | 8 57 | 9 24 | 5 9 | 2 2 | 1 27 | 6 29 | 1 13 | 16 25 | 2 41 | 5 58 | 1 32 | 20 51 | 0 0 | 23 13 | 0 8 | 2 17 | 1 18 | 24 55 | 5 29 | 19 43 | 20 2 | 8 20 | 14 46 | 7 3 |
| F 13 | 9 19 | 5 23 | 5 10 | 2 1 | 1 37 | 6 3 | 1 16 | 16 21 | 2 39 | 6 0 | 1 31 | 20 50 | 0 0 | 23 13 | 0 8 | 2 16 | 1 18 | 24 55 | 5 29 | 19 42 | 20 1 | 8 18 | 14 46 | 7 3 |
| S 14 | 9 40 | 1 8 | 4 56 | 1 57 | 1 47 | 5 37 | 1 18 | 16 16 | 2 37 | 6 2 | 1 31 | 20 50 | 0 0 | 23 14 | 0 8 | 2 16 | 1 18 | 24 55 | 5 29 | 19 41 | 20 1 | 8 16 | 14 47 | 7 2 |
| S 15 | 10 2 | 3s12 | 4 30 | 1 51 | 1 57 | 5 11 | 1 20 | 16 11 | 2 34 | 6 4 | 1 31 | 20 50 | 0s 0 | 23 14 | 0 8 | 2 15 | 1 18 | 24 55 | 5 29 | 19 40 | 20 0 | 8 14 | 14 47 | 7 1 |
| M16 | 10 23 | 7 29 | 3 51 | 1 43 | 2 5 | 4 45 | 1 22 | 16 6 | 2 32 | 6 5 | 1 31 | 20 49 | 0 0 | 23 14 | 0 8 | 2 14 | 1 18 | 24 54 | 5 29 | 19 39 | 19 59 | 8 11 | 14 47 | 7 1 |
| T 17 | 10 44 | 11 31 | 3 0 | 1 33 | 2 13 | 4 18 | 1 24 | 16 0 | 2 30 | 6 7 | 1 31 | 20 49 | 0 0 | 23 14 | 0 8 | 2 13 | 1 18 | 24 54 | 5 29 | 19 38 | 19 59 | 8 9 | 14 48 | 7 0 |
| W18 | 11 5 | 15 6 | 1 59 | 1 20 | 2 21 | 3 52 | 1 26 | 15 55 | 2 28 | 6 9 | 1 31 | 20 49 | 0 0 | 23 14 | 0 8 | 2 13 | 1 18 | 24 54 | 5 29 | 19 37 | 19 58 | 8 7 | 14 48 | 6 59 |
| T 19 | 11 26 | 18 2 | 0 52 | 1 6 | 2 27 | 3 25 | 1 27 | 15 49 | 2 25 | 6 10 | 1 30 | 20 49 | 0 0 | 23 15 | 0 8 | 2 12 | 1 18 | 24 54 | 5 29 | 19 37 | 19 57 | 8 5 | 14 48 | 6 58 |
| F 20 | 11 46 | 20 4 | 0n20 | 0 50 | 2 33 | 2 58 | 1 29 | 15 43 | 2 23 | 6 12 | 1 30 | 20 48 | 0 0 | 23 15 | 0 8 | 2 11 | 1 18 | 24 54 | 5 29 | 19 36 | 19 57 | 8 2 | 14 48 | 6 58 |
| S 21 | 12 6 | 21 2 | 1 32 | 0 32 | 2 38 | 2 31 | 1 31 | 15 37 | 2 21 | 6 13 | 1 30 | 20 48 | 0 1 | 23 15 | 0 8 | 2 10 | 1 18 | 24 54 | 5 29 | 19 37 | 19 56 | 8 0 | 14 49 | 6 57 |
| S 22 | 12 27 | 20 48 | 2 39 | 0 12 | 2 42 | 2 4 | 1 32 | 15 31 | 2 19 | 6 14 | 1 30 | 20 48 | 0 1 | 23 15 | 0 8 | 2 9 | 1 18 | 24 54 | 5 29 | 19 37 | 19 55 | 7 58 | 14 49 | 6 56 |
| M23 | 12 47 | 19 21 | 3 39 | 0n 9 | 2 46 | 1 36 | 1 34 | 15 25 | 2 17 | 6 16 | 1 30 | 20 48 | 0 1 | 23 15 | 0 8 | 2 9 | 1 18 | 24 54 | 5 29 | 19 37 | 19 54 | 7 55 | 14 49 | 6 56 |
| T 24 | 13 6 | 16 43 | 4 27 | 0 32 | 2 49 | 1 9 | 1 35 | 15 18 | 2 14 | 6 17 | 1 30 | 20 48 | 0 1 | 23 16 | 0 8 | 2 8 | 1 18 | 24 54 | 5 29 | 19 38 | 19 54 | 7 53 | 14 49 | 6 55 |
| W25 | 13 26 | 13 5 | 4 59 | 0 57 | 2 52 | 0 42 | 1 36 | 15 11 | 2 12 | 6 18 | 1 29 | 20 48 | 0 1 | 23 16 | 0 8 | 2 7 | 1 18 | 24 53 | 5 28 | 19 38 | 19 53 | 7 51 | 14 50 | 6 54 |
| T 26 | 13 45 | 8 40 | 5 14 | 1 23 | 2 54 | 0 14 | 1 37 | 15 4 | 2 10 | 6 19 | 1 29 | 20 47 | 0 1 | 23 16 | 0 8 | 2 7 | 1 18 | 24 53 | 5 28 | 19 37 | 19 52 | 7 49 | 14 50 | 6 54 |
| F 27 | 14 4 | 3 44 | 5 9 | 1 50 | 2 55 | 0n13 | 1 38 | 14 57 | 2 8 | 6 20 | 1 29 | 20 47 | 0 1 | 23 16 | 0 8 | 2 6 | 1 18 | 24 53 | 5 28 | 19 37 | 19 52 | 7 46 | 14 50 | 6 53 |
| S 28 | 14 23 | 1n26 | 4 45 | 2 19 | 2 56 | 0 41 | 1 39 | 14 50 | 2 6 | 6 21 | 1 29 | 20 47 | 0 1 | 23 16 | 0 8 | 2 5 | 1 18 | 24 53 | 5 28 | 19 37 | 19 51 | 7 44 | 14 50 | 6 52 |
| S 29 | 14 41 | 6 31 | 4 3 | 2 50 | 2 56 | 1 9 | 1 40 | 14 43 | 2 4 | 6 22 | 1 29 | 20 47 | 0 1 | 23 17 | 0 8 | 2 4 | 1 18 | 24 53 | 5 28 | 19 36 | 19 50 | 7 42 | 14 50 | 6 52 |
| M30 | 15n 0 | 11n13 | 3n 5 | 3n21 | 2s55 | 1n36 | 1s41 | 14n35 | 2n 2 | 6n23 | 1n28 | 20s47 | 0s 1 | 23n17 | 0n 8 | 2s 4 | 1s18 | 24n53 | 5n28 | 19s35 | 19s50 | 7n40 | 14n50 | 6s51 |

Julian Day Number = 2340602.5, Delta T = 15.69 sec
Ecliptic obliquity = 23°28'40, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'01, Lahiri = 19°37'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## MAY 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 39 25 | 11♉28'18 | 5♉31 | 16♈42 | 9♈ 8 | 26♌51 | 17°R16 | 27♏ 9 | 20♊42 | 27♓51 | 2♌50 | 27°R17 | 28♏18 | 27♌13 | 22♋33 | T 1 |
| W 2 | 14 43 22 | 12°26'22 | 19°23 | 18° 7 | 10°20 | 27° 8 | 17♍14 | 27° 9 | 20°45 | 27°53 | 2°50 | 27♏17 | 28°15 | 27°20 | 22°37 | W 2 |
| T 3 | 14 47 18 | 13°24'25 | 2♊56 | 19°34 | 11°32 | 27°26 | 17°12 | 27° 9 | 20°48 | 27°55 | 2°51 | 27°D17 | 28°12 | 27°26 | 22°41 | T 3 |
| F 4 | 14 51 15 | 14°22'26 | 16° 8 | 21° 3 | 12°44 | 27°44 | 17°11 | 27°10 | 20°51 | 27°57 | 2°51 | 27°17 | 28° 9 | 27°33 | 22°45 | F 4 |
| S 5 | 14 55 11 | 15°20'25 | 29° 0 | 22°34 | 13°56 | 28° 3 | 17° 9 | 27°10 | 20°55 | 27°58 | 2°52 | 27°18 | 28° 5 | 27°40 | 22°49 | S 5 |
| S 6 | 14 59 8 | 16°18'22 | 11♋33 | 24° 7 | 15° 8 | 28°22 | 17° 8 | 27°R10 | 20°58 | 28° 0 | 2°52 | 27°19 | 28° 2 | 27°47 | 22°53 | S 6 |
| M 7 | 15 3 4 | 17°16'18 | 23°50 | 25°42 | 16°20 | 28°41 | 17° 6 | 27°10 | 21° 1 | 28° 2 | 2°53 | 27°20 | 27°59 | 27°53 | 22°57 | M 7 |
| T 8 | 15 7 1 | 18°14'12 | 5♌54 | 27°20 | 17°32 | 29° 1 | 17° 5 | 27° 9 | 21° 4 | 28° 3 | 2°53 | 27°21 | 27°56 | 28° 0 | 23° 2 | T 8 |
| W 9 | 15 10 57 | 19°12'04 | 17°51 | 28°59 | 18°44 | 29°21 | 17° 5 | 27° 9 | 21° 7 | 28° 5 | 2°54 | 27°R21 | 27°53 | 28° 7 | 23° 6 | W 9 |
| T 10 | 15 14 54 | 20° 9'54 | 29°44 | 0♍41 | 19°56 | 29°41 | 17° 4 | 27° 9 | 21°10 | 28° 6 | 2°55 | 27°21 | 27°50 | 28°13 | 23°10 | T 10 |
| F 11 | 15 18 51 | 21° 7'42 | 11♍39 | 2°24 | 21° 9 | 0♍ 2 | 17° 4 | 27° 8 | 21°13 | 28° 8 | 2°55 | 27°20 | 27°46 | 28°20 | 23°15 | F 11 |
| S 12 | 15 22 47 | 22° 5'29 | 23°39 | 4°10 | 22°21 | 0°23 | 17° 3 | 27° 8 | 21°17 | 28° 9 | 2°56 | 27°20 | 27°43 | 28°27 | 23°19 | S 12 |
| S 13 | 15 26 44 | 23° 3'14 | 5♎49 | 5°57 | 23°33 | 0°45 | 17°D 3 | 27° 7 | 21°20 | 28°11 | 2°57 | 27°19 | 27°40 | 28°34 | 23°24 | S 13 |
| M14 | 15 30 40 | 24° 0'58 | 18°11 | 7°47 | 24°45 | 1° 7 | 17° 3 | 27° 6 | 21°23 | 28°12 | 2°58 | 27°19 | 27°37 | 28°40 | 23°29 | M14 |
| T 15 | 15 34 37 | 24°58'40 | 0♏49 | 9°39 | 25°57 | 1°29 | 17° 4 | 27° 5 | 21°26 | 28°14 | 2°58 | 27°18 | 27°34 | 28°47 | 23°34 | T 15 |
| W16 | 15 38 33 | 25°56'20 | 13°44 | 11°33 | 27° 9 | 1°52 | 17° 4 | 27° 5 | 21°30 | 28°15 | 2°59 | 27°18 | 27°30 | 28°54 | 23°38 | W16 |
| T 17 | 15 42 30 | 26°54'00 | 26°55 | 13°29 | 28°22 | 2°15 | 17° 5 | 27° 4 | 21°33 | 28°17 | 3° 0 | 27°18 | 27°27 | 29° 0 | 23°43 | T 17 |
| F 18 | 15 46 26 | 27°51'38 | 10♐23 | 15°26 | 29°34 | 2°38 | 17° 5 | 27° 2 | 21°36 | 28°18 | 3° 1 | 27°18 | 27°24 | 29° 7 | 23°48 | F 18 |
| S 19 | 15 50 23 | 28°49'14 | 24° 6 | 17°26 | 0♑46 | 3° 1 | 17° 6 | 27° 1 | 21°40 | 28°19 | 3° 2 | 27°18 | 27°21 | 29°14 | 23°54 | S 19 |
| S 20 | 15 54 20 | 29°46'50 | 8♏ 2 | 19°28 | 1°58 | 3°25 | 17° 8 | 27° 0 | 21°43 | 28°21 | 3° 3 | 27°18 | 27°18 | 29°21 | 23°59 | S 20 |
| M21 | 15 58 16 | 0♊44'25 | 22° 7 | 21°31 | 3°11 | 3°49 | 17° 9 | 26°58 | 21°46 | 28°22 | 3° 4 | 27°18 | 27°15 | 29°27 | 24° 4 | M21 |
| T 22 | 16 2 13 | 1°41'58 | 6♒18 | 23°36 | 4°23 | 4°13 | 17°11 | 26°57 | 21°50 | 28°23 | 3° 4 | 27°17 | 27°11 | 29°34 | 24° 9 | T 22 |
| W23 | 16 6 9 | 2°39'31 | 20°33 | 25°43 | 5°35 | 4°38 | 17°12 | 26°55 | 21°53 | 28°25 | 3° 5 | 27°17 | 27° 8 | 29°41 | 24°14 | W23 |
| T 24 | 16 10 6 | 3°37'03 | 4♓48 | 27°51 | 6°48 | 5° 3 | 17°14 | 26°54 | 21°57 | 28°26 | 3° 6 | 27°D17 | 27° 5 | 29°48 | 24°20 | T 24 |
| F 25 | 16 14 2 | 4°34'34 | 19° 1 | 0♊ 0 | 8° 0 | 5°28 | 17°16 | 26°52 | 22° 0 | 28°27 | 3° 7 | 27°17 | 27° 2 | 29°54 | 24°25 | F 25 |
| S 26 | 16 17 59 | 5°32'04 | 3♈ 9 | 2°11 | 9°13 | 5°54 | 17°18 | 26°50 | 22° 4 | 28°28 | 3° 8 | 27°18 | 26°59 | 0♍ 1 | 24°31 | S 26 |
| S 27 | 16 21 55 | 6°29'34 | 17° 9 | 4°22 | 10°25 | 6°19 | 17°21 | 26°48 | 22° 7 | 28°29 | 3°10 | 27°18 | 26°56 | 0° 8 | 24°36 | S 27 |
| M28 | 16 25 52 | 7°27'03 | 1♉ 1 | 6°34 | 11°37 | 6°45 | 17°23 | 26°46 | 22°10 | 28°30 | 3°11 | 27°19 | 26°52 | 0°14 | 24°42 | M28 |
| T 29 | 16 29 49 | 8°24'31 | 14°42 | 8°46 | 12°50 | 7°12 | 17°26 | 26°44 | 22°14 | 28°31 | 3°12 | 27°20 | 26°49 | 0°21 | 24°48 | T 29 |
| W30 | 16 33 45 | 9°21'58 | 28°10 | 10°58 | 14° 2 | 7°38 | 17°29 | 26°42 | 22°17 | 28°32 | 3°13 | 27°R20 | 26°46 | 0°28 | 24°54 | W30 |
| T 31 | 16 37 42 | 10♊19'24 | 11♊23 | 13♊10 | 15♉15 | 8♍ 5 | 17♍32 | 26♏39 | 22♊21 | 28♓33 | 3♌14 | 27♏20 | 26♏43 | 0♍35 | 24♋59 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n18 | 15n13 | 1n57 | 3n54 | 2s54 | 2n 4 | 1s42 | 14n28 | 2n 0 | 6n23 | 1n28 | 20s47 | 0s 1 | 23n17 | 0n 8 | 2s 3 | 1s18 | 24n52 | 5n28 | 19s35 | 19s49 | 7n37 | 14n50 | 6s50 |
| W 2 | 15 36 | 18 18 | 0 43 | 4 28 | 2 52 | 2 32 | 1 43 | 14 20 | 1 58 | 6 24 | 1 28 | 20 47 | 0 1 | 23 17 | 0 8 | 2 2 | 1 18 | 24 52 | 5 28 | 19 35 | 19 48 | 7 35 | 14 50 | 6 50 |
| T 3 | 15 53 | 20 16 | 0s31 | 5 3 | 2 50 | 2 59 | 1 43 | 14 12 | 1 56 | 6 25 | 1 28 | 20 47 | 0 2 | 23 17 | 0 8 | 2 2 | 1 18 | 24 52 | 5 28 | 19 35 | 19 47 | 7 33 | 14 50 | 6 49 |
| F 4 | 16 11 | 21 3 | 1 42 | 5 39 | 2 47 | 3 27 | 1 44 | 14 4 | 1 54 | 6 25 | 1 28 | 20 47 | 0 2 | 23 18 | 0 8 | 2 1 | 1 19 | 24 52 | 5 28 | 19 35 | 19 47 | 7 30 | 14 50 | 6 49 |
| S 5 | 16 28 | 20 42 | 2 47 | 6 16 | 2 43 | 3 54 | 1 44 | 13 56 | 1 53 | 6 25 | 1 27 | 20 47 | 0 2 | 23 18 | 0 8 | 2 1 | 1 19 | 24 52 | 5 28 | 19 35 | 19 46 | 7 28 | 14 50 | 6 48 |
| S 6 | 16 44 | 19 18 | 3 41 | 6 54 | 2 39 | 4 22 | 1 45 | 13 47 | 1 51 | 6 26 | 1 27 | 20 47 | 0 2 | 23 18 | 0 8 | 2 0 | 1 19 | 24 51 | 5 28 | 19 36 | 19 45 | 7 26 | 14 50 | 6 47 |
| M 7 | 17 1 | 17 2 | 4 24 | 7 33 | 2 35 | 4 49 | 1 45 | 13 39 | 1 49 | 6 26 | 1 27 | 20 47 | 0 2 | 23 18 | 0 8 | 1 59 | 1 19 | 24 51 | 5 28 | 19 36 | 19 45 | 7 24 | 14 50 | 6 47 |
| T 8 | 17 17 | 14 4 | 4 55 | 8 13 | 2 30 | 5 17 | 1 45 | 13 30 | 1 47 | 6 26 | 1 27 | 20 48 | 0 2 | 23 18 | 0 8 | 1 59 | 1 19 | 24 51 | 5 27 | 19 36 | 19 44 | 7 21 | 14 50 | 6 46 |
| W 9 | 17 33 | 10 33 | 5 12 | 8 53 | 2 24 | 5 44 | 1 45 | 13 22 | 1 45 | 6 26 | 1 26 | 20 48 | 0 2 | 23 19 | 0 8 | 1 58 | 1 19 | 24 51 | 5 27 | 19 36 | 19 43 | 7 19 | 14 50 | 6 46 |
| T 10 | 17 49 | 6 38 | 5 16 | 9 34 | 2 18 | 6 11 | 1 45 | 13 13 | 1 43 | 6 26 | 1 26 | 20 48 | 0 2 | 23 19 | 0 8 | 1 57 | 1 19 | 24 51 | 5 27 | 19 36 | 19 42 | 7 17 | 14 50 | 6 45 |
| F 11 | 18 4 | 2 28 | 5 7 | 10 16 | 2 11 | 6 38 | 1 45 | 13 4 | 1 42 | 6 26 | 1 26 | 20 48 | 0 2 | 23 19 | 0 8 | 1 57 | 1 19 | 24 50 | 5 27 | 19 36 | 19 42 | 7 14 | 14 50 | 6 44 |
| S 12 | 18 19 | 1s49 | 4 44 | 10 59 | 2 4 | 7 5 | 1 45 | 12 54 | 1 40 | 6 26 | 1 26 | 20 48 | 0 2 | 23 19 | 0 8 | 1 56 | 1 19 | 24 50 | 5 27 | 19 36 | 19 41 | 7 12 | 14 49 | 6 44 |
| S 13 | 18 34 | 6 6 | 4 8 | 11 42 | 1 56 | 7 32 | 1 45 | 12 45 | 1 38 | 6 26 | 1 26 | 20 48 | 0 2 | 23 20 | 0 8 | 1 56 | 1 19 | 24 50 | 5 27 | 19 36 | 19 40 | 7 10 | 14 49 | 6 43 |
| M14 | 18 48 | 10 14 | 3 20 | 12 25 | 1 48 | 7 59 | 1 44 | 12 36 | 1 36 | 6 26 | 1 25 | 20 49 | 0 2 | 23 20 | 0 8 | 1 55 | 1 19 | 24 50 | 5 27 | 19 35 | 19 40 | 7 8 | 14 49 | 6 43 |
| T 15 | 19 2 | 13 59 | 2 22 | 13 9 | 1 40 | 8 25 | 1 44 | 12 26 | 1 35 | 6 25 | 1 25 | 20 49 | 0 3 | 23 20 | 0 8 | 1 55 | 1 19 | 24 49 | 5 27 | 19 35 | 19 39 | 7 5 | 14 49 | 6 42 |
| W16 | 19 16 | 17 10 | 1 15 | 13 53 | 1 31 | 8 52 | 1 44 | 12 17 | 1 33 | 6 25 | 1 25 | 20 49 | 0 3 | 23 20 | 0 8 | 1 54 | 1 19 | 24 49 | 5 27 | 19 35 | 19 38 | 7 3 | 14 48 | 6 42 |
| T 17 | 19 30 | 19 32 | 0 2 | 14 36 | 1 22 | 9 18 | 1 43 | 12 7 | 1 31 | 6 25 | 1 25 | 20 49 | 0 3 | 23 20 | 0 8 | 1 54 | 1 19 | 24 49 | 5 27 | 19 35 | 19 37 | 7 1 | 14 48 | 6 41 |
| F 18 | 19 43 | 20 51 | 1n12 | 15 20 | 1 12 | 9 44 | 1 43 | 11 57 | 1 30 | 6 24 | 1 24 | 20 50 | 0 3 | 23 21 | 0 8 | 1 53 | 1 19 | 24 49 | 5 27 | 19 35 | 19 37 | 6 58 | 14 48 | 6 40 |
| S 19 | 19 56 | 20 58 | 2 23 | 16 4 | 1 2 | 10 10 | 1 42 | 11 47 | 1 28 | 6 24 | 1 24 | 20 50 | 0 3 | 23 21 | 0 8 | 1 53 | 1 19 | 24 48 | 5 27 | 19 35 | 19 36 | 6 56 | 14 48 | 6 40 |
| S 20 | 20 8 | 19 47 | 3 27 | 16 47 | 0 52 | 10 36 | 1 41 | 11 37 | 1 26 | 6 23 | 1 24 | 20 50 | 0 3 | 23 21 | 0 8 | 1 52 | 1 19 | 24 48 | 5 27 | 19 35 | 19 35 | 6 54 | 14 47 | 6 39 |
| M21 | 20 20 | 17 24 | 4 19 | 17 30 | 0 42 | 11 1 | 1 41 | 11 26 | 1 25 | 6 22 | 1 24 | 20 51 | 0 3 | 23 21 | 0 8 | 1 52 | 1 19 | 24 48 | 5 27 | 19 35 | 19 34 | 6 52 | 14 47 | 6 39 |
| T 22 | 20 32 | 13 57 | 4 56 | 18 12 | 0 31 | 11 26 | 1 40 | 11 16 | 1 23 | 6 21 | 1 24 | 20 51 | 0 3 | 23 22 | 0 8 | 1 51 | 1 19 | 24 48 | 5 27 | 19 35 | 19 34 | 6 49 | 14 47 | 6 38 |
| W23 | 20 43 | 9 41 | 5 15 | 18 53 | 0 21 | 11 51 | 1 39 | 11 6 | 1 22 | 6 20 | 1 23 | 20 52 | 0 3 | 23 22 | 0 8 | 1 51 | 1 19 | 24 47 | 5 27 | 19 35 | 19 33 | 6 47 | 14 46 | 6 38 |
| T 24 | 20 55 | 4 53 | 5 14 | 19 33 | 0 10 | 12 16 | 1 38 | 10 55 | 1 20 | 6 19 | 1 23 | 20 52 | 0 3 | 23 22 | 0 8 | 1 50 | 1 19 | 24 47 | 5 26 | 19 35 | 19 32 | 6 45 | 14 46 | 6 37 |
| F 25 | 21 5 | 0n10 | 4 54 | 20 12 | 0n 1 | 12 40 | 1 37 | 10 44 | 1 19 | 6 18 | 1 23 | 20 52 | 0 3 | 23 22 | 0 8 | 1 50 | 1 19 | 24 47 | 5 26 | 19 35 | 19 32 | 6 42 | 14 45 | 6 37 |
| S 26 | 21 16 | 5 11 | 4 17 | 20 49 | 0 11 | 13 5 | 1 36 | 10 33 | 1 17 | 6 17 | 1 23 | 20 53 | 0 4 | 23 22 | 0 8 | 1 50 | 1 19 | 24 46 | 5 26 | 19 35 | 19 31 | 6 40 | 14 45 | 6 36 |
| S 27 | 21 26 | 9 54 | 3 25 | 21 24 | 0 22 | 13 28 | 1 34 | 10 23 | 1 16 | 6 16 | 1 22 | 20 53 | 0 4 | 23 23 | 0 8 | 1 49 | 1 20 | 24 46 | 5 26 | 19 35 | 19 30 | 6 38 | 14 44 | 6 36 |
| M28 | 21 35 | 14 3 | 2 21 | 21 58 | 0 32 | 13 52 | 1 33 | 10 12 | 1 14 | 6 15 | 1 22 | 20 54 | 0 4 | 23 23 | 0 8 | 1 49 | 1 20 | 24 46 | 5 26 | 19 36 | 19 29 | 6 36 | 14 44 | 6 35 |
| T 29 | 21 45 | 17 23 | 1 9 | 22 29 | 0 42 | 14 15 | 1 32 | 10 0 | 1 13 | 6 14 | 1 22 | 20 54 | 0 4 | 23 23 | 0 8 | 1 48 | 1 20 | 24 45 | 5 26 | 19 36 | 19 29 | 6 33 | 14 43 | 6 35 |
| W30 | 21 53 | 19 42 | 0s 5 | 22 58 | 0 51 | 14 38 | 1 31 | 9 49 | 1 11 | 6 12 | 1 22 | 20 55 | 0 4 | 23 23 | 0 8 | 1 48 | 1 20 | 24 45 | 5 26 | 19 36 | 19 28 | 6 31 | 14 43 | 6 34 |
| T 31 | 22n 2 | 20n55 | 1s17 | 23n25 | 1n 0 | 15n 1 | 1s29 | 9n38 | 1n10 | 6n11 | 1n21 | 20s55 | 0s 4 | 23n23 | 0n 8 | 1s48 | 1s20 | 24n45 | 5n26 | 19s36 | 19s27 | 6n29 | 14n42 | 6s34 |

Julian Day Number = 2340632.5, Delta T = 15.65 sec
Ecliptic obliquity = 23°28'39, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'05, Lahiri = 19°37'05Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## JUNE 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 16 41 38 | 11♊16'50 | 24♊21 | 15♊21 | 16♉27 | 8♍32 | 17♍35 | 26°R37 | 22♊25 | 28♓34 | 3♌15 | 27°R19 | 26♏40 | 0♍41 | 25♋ 5 | F 1 |
| S 2 | 16 45 35 | 12°14'14 | 7♋ 3 | 17°31 | 17°40 | 8°59 | 17°39 | 26♉35 | 22°28 | 28°35 | 3°16 | 27♏17 | 26°36 | 0°48 | 25°11 | S 2 |
| S 3 | 16 49 31 | 13°11'38 | 19°31 | 19°41 | 18°52 | 9°27 | 17°42 | 26°32 | 22°32 | 28°36 | 3°17 | 27°15 | 26°33 | 0°55 | 25°17 | S 3 |
| M 4 | 16 53 28 | 14° 9'00 | 1♌46 | 21°49 | 20° 5 | 9°54 | 17°46 | 26°29 | 22°35 | 28°37 | 3°19 | 27°12 | 26°30 | 1° 2 | 25°23 | M 4 |
| T 5 | 16 57 24 | 15° 6'22 | 13°50 | 23°56 | 21°18 | 10°22 | 17°50 | 26°27 | 22°39 | 28°38 | 3°20 | 27°10 | 26°27 | 1° 8 | 25°29 | T 5 |
| W 6 | 17 1 21 | 16° 3'42 | 25°46 | 26° 1 | 22°30 | 10°50 | 17°54 | 26°24 | 22°42 | 28°39 | 3°21 | 27° 8 | 26°24 | 1°15 | 25°35 | W 6 |
| T 7 | 17 5 18 | 17° 1'01 | 7♍40 | 28° 4 | 23°43 | 11°19 | 17°58 | 26°21 | 22°46 | 28°40 | 3°22 | 27° 7 | 26°21 | 1°22 | 25°42 | T 7 |
| F 8 | 17 9 14 | 17°58'20 | 19°34 | 0♋ 6 | 24°55 | 11°47 | 18° 3 | 26°18 | 22°49 | 28°40 | 3°24 | 27°D 7 | 26°17 | 1°28 | 25°48 | F 8 |
| S 9 | 17 13 11 | 18°55'38 | 1♎34 | 2° 5 | 26° 8 | 12°16 | 18° 7 | 26°15 | 22°53 | 28°41 | 3°25 | 27° 7 | 26°14 | 1°35 | 25°54 | S 9 |
| S 10 | 17 17 7 | 19°52'54 | 13°44 | 4° 2 | 27°21 | 12°45 | 18°12 | 26°12 | 22°57 | 28°42 | 3°26 | 27° 8 | 26°11 | 1°42 | 26° 0 | S 10 |
| M11 | 17 21 4 | 20°50'10 | 26° 8 | 5°57 | 28°33 | 13°14 | 18°17 | 26° 9 | 23° 0 | 28°42 | 3°28 | 27°10 | 26° 8 | 1°49 | 26° 7 | M11 |
| T 12 | 17 25 0 | 21°47'25 | 8♏51 | 7°50 | 29°46 | 13°44 | 18°22 | 26° 6 | 23° 4 | 28°43 | 3°29 | 27°11 | 26° 5 | 1°55 | 26°13 | T 12 |
| W13 | 17 28 57 | 22°44'40 | 21°55 | 9°41 | 0♊59 | 14°13 | 18°27 | 26° 3 | 23° 7 | 28°44 | 3°30 | 27°R12 | 26° 2 | 2° 2 | 26°20 | W13 |
| T 14 | 17 32 53 | 23°41'53 | 5♐22 | 11°29 | 2°12 | 14°43 | 18°32 | 25°59 | 23°11 | 28°44 | 3°32 | 27°12 | 25°58 | 2° 9 | 26°26 | T 14 |
| F 15 | 17 36 50 | 24°39'07 | 19°10 | 13°15 | 3°24 | 15°13 | 18°38 | 25°56 | 23°14 | 28°45 | 3°33 | 27°11 | 25°55 | 2°15 | 26°33 | F 15 |
| S 16 | 17 40 47 | 25°36'19 | 3♑18 | 14°58 | 4°37 | 15°43 | 18°43 | 25°52 | 23°18 | 28°45 | 3°35 | 27° 8 | 25°52 | 2°22 | 26°39 | S 16 |
| S 17 | 17 44 43 | 26°33'32 | 17°41 | 16°39 | 5°50 | 16°14 | 18°49 | 25°49 | 23°22 | 28°46 | 3°36 | 27° 4 | 25°49 | 2°29 | 26°46 | S 17 |
| M18 | 17 48 40 | 27°30'44 | 2♒14 | 18°18 | 7° 3 | 16°44 | 18°55 | 25°45 | 23°25 | 28°46 | 3°38 | 27° 0 | 25°46 | 2°36 | 26°53 | M18 |
| T 19 | 17 52 36 | 28°27'56 | 16°50 | 19°55 | 8°16 | 17°15 | 19° 1 | 25°42 | 23°29 | 28°46 | 3°39 | 26°56 | 25°42 | 2°42 | 26°59 | T 19 |
| W20 | 17 56 33 | 29°25'08 | 1♓22 | 21°29 | 9°28 | 17°46 | 19° 7 | 25°38 | 23°32 | 28°47 | 3°40 | 26°53 | 25°39 | 2°49 | 27° 6 | W20 |
| T 21 | 18 0 29 | 0♋22'19 | 15°47 | 23° 1 | 10°41 | 18°17 | 19°14 | 25°34 | 23°36 | 28°47 | 3°42 | 26°50 | 25°36 | 2°56 | 27°13 | T 21 |
| F 22 | 18 4 26 | 1°19'31 | 29°59 | 24°30 | 11°54 | 18°48 | 19°20 | 25°30 | 23°39 | 28°47 | 3°43 | 26°D50 | 25°33 | 3° 3 | 27°20 | F 22 |
| S 23 | 18 8 22 | 2°16'43 | 13♈58 | 25°57 | 13° 7 | 19°19 | 19°27 | 25°27 | 23°43 | 28°48 | 3°45 | 26°50 | 25°30 | 3° 9 | 27°27 | S 23 |
| S 24 | 18 12 19 | 3°13'55 | 27°43 | 27°21 | 14°20 | 19°51 | 19°33 | 25°23 | 23°47 | 28°48 | 3°47 | 26°51 | 25°27 | 3°16 | 27°33 | S 24 |
| M25 | 18 16 16 | 4°11'07 | 11♉13 | 28°43 | 15°33 | 20°23 | 19°40 | 25°19 | 23°50 | 28°48 | 3°48 | 26°53 | 25°23 | 3°23 | 27°40 | M25 |
| T 26 | 18 20 12 | 5° 8'19 | 24°30 | 0♌ 3 | 16°46 | 20°54 | 19°47 | 25°15 | 23°54 | 28°48 | 3°50 | 26°R53 | 25°20 | 3°29 | 27°47 | T 26 |
| W27 | 18 24 9 | 6° 5'32 | 7♊34 | 1°20 | 17°59 | 21°26 | 19°54 | 25°11 | 23°57 | 28°49 | 3°51 | 26°53 | 25°17 | 3°36 | 27°54 | W27 |
| T 28 | 18 28 5 | 7° 2'45 | 20°25 | 2°34 | 19°12 | 21°59 | 20° 1 | 25° 7 | 24° 1 | 28°49 | 3°53 | 26°51 | 25°14 | 3°43 | 28° 1 | T 28 |
| F 29 | 18 32 2 | 7°59'57 | 3♋ 5 | 3°46 | 20°25 | 22°31 | 20° 9 | 25° 3 | 24° 4 | 28°49 | 3°54 | 26°47 | 25°11 | 3°50 | 28° 8 | F 29 |
| S 30 | 18 35 58 | 8♋57'10 | 15♋34 | 4♌54 | 21♊38 | 23♍ 4 | 20♍16 | 24♉58 | 24♊ 8 | 28♓49 | 3♌56 | 26♏40 | 25♏ 8 | 3♍56 | 28♋15 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 22n10 | 20n58 | 2s24 | 23n49 | 1n 9 | 15n23 | 1s28 | 9n26 | 1n 8 | 6n10 | 1n21 | 20s56 | 0s 4 | 23n24 | 0n 8 | 1s47 | 1s20 | 24n44 | 5n26 | 19s35 | 19s26 | 6n26 | 14n42 | 6s34 |
| S 2 | 22 18 | 19 55 | 3 22 | 24 10 | 1 17 | 15 45 | 1 26 | 9 15 | 1 7 | 6 8 | 1 21 | 20 56 | 0 4 | 23 24 | 0 8 | 1 47 | 1 20 | 24 44 | 5 26 | 19 35 | 19 26 | 6 24 | 14 41 | 6 33 |
| S 3 | 22 25 | 17 56 | 4 10 | 24 29 | 1 25 | 16 6 | 1 25 | 9 3 | 1 5 | 6 6 | 1 21 | 20 57 | 0 4 | 23 24 | 0 8 | 1 47 | 1 20 | 24 44 | 5 26 | 19 35 | 19 25 | 6 22 | 14 40 | 6 33 |
| M 4 | 22 32 | 15 10 | 4 45 | 24 45 | 1 31 | 16 28 | 1 23 | 8 51 | 1 4 | 6 5 | 1 21 | 20 58 | 0 4 | 23 24 | 0 8 | 1 46 | 1 20 | 24 44 | 5 26 | 19 34 | 19 24 | 6 20 | 14 40 | 6 32 |
| T 5 | 22 39 | 11 48 | 5 7 | 24 58 | 1 38 | 16 48 | 1 21 | 8 39 | 1 3 | 6 3 | 1 20 | 20 58 | 0 4 | 23 24 | 0 8 | 1 46 | 1 20 | 24 43 | 5 26 | 19 33 | 19 23 | 6 17 | 14 39 | 6 32 |
| W 6 | 22 45 | 8 0 | 5 15 | 25 8 | 1 43 | 17 9 | 1 19 | 8 27 | 1 1 | 6 1 | 1 20 | 20 59 | 0 5 | 23 25 | 0 8 | 1 46 | 1 20 | 24 43 | 5 26 | 19 33 | 19 23 | 6 15 | 14 38 | 6 31 |
| T 7 | 22 51 | 3 55 | 5 10 | 25 16 | 1 48 | 17 29 | 1 18 | 8 15 | 1 0 | 5 59 | 1 20 | 20 59 | 0 5 | 23 25 | 0 8 | 1 45 | 1 20 | 24 42 | 5 26 | 19 33 | 19 22 | 6 13 | 14 38 | 6 31 |
| F 8 | 22 56 | 0s20 | 4 51 | 25 20 | 1 52 | 17 48 | 1 16 | 8 3 | 0 59 | 5 57 | 1 20 | 21 0 | 0 5 | 23 25 | 0 8 | 1 45 | 1 20 | 24 42 | 5 26 | 19 33 | 19 21 | 6 11 | 14 37 | 6 31 |
| S 9 | 23 1 | 4 36 | 4 20 | 25 23 | 1 55 | 18 7 | 1 14 | 7 51 | 0 57 | 5 55 | 1 20 | 21 1 | 0 5 | 23 25 | 0 8 | 1 45 | 1 20 | 24 42 | 5 26 | 19 33 | 19 20 | 6 8 | 14 36 | 6 30 |
| S 10 | 23 5 | 8 45 | 3 37 | 25 22 | 1 58 | 18 26 | 1 12 | 7 39 | 0 56 | 5 53 | 1 19 | 21 1 | 0 5 | 23 25 | 0 8 | 1 45 | 1 20 | 24 41 | 5 26 | 19 33 | 19 20 | 6 6 | 14 36 | 6 30 |
| M11 | 23 10 | 12 38 | 2 43 | 25 20 | 1 59 | 18 44 | 1 10 | 7 26 | 0 55 | 5 51 | 1 19 | 21 2 | 0 5 | 23 26 | 0 8 | 1 45 | 1 20 | 24 41 | 5 26 | 19 33 | 19 19 | 6 4 | 14 35 | 6 30 |
| T 12 | 23 13 | 16 2 | 1 39 | 25 15 | 2 0 | 19 2 | 1 8 | 7 14 | 0 53 | 5 49 | 1 19 | 21 3 | 0 5 | 23 26 | 0 8 | 1 44 | 1 20 | 24 41 | 5 26 | 19 34 | 19 18 | 6 1 | 14 34 | 6 29 |
| W13 | 23 17 | 18 45 | 0 29 | 25 8 | 2 1 | 19 19 | 1 6 | 7 1 | 0 52 | 5 47 | 1 19 | 21 3 | 0 5 | 23 26 | 0 8 | 1 44 | 1 20 | 24 40 | 5 26 | 19 34 | 19 17 | 5 59 | 14 33 | 6 29 |
| T 14 | 23 20 | 20 30 | 0n45 | 24 59 | 2 0 | 19 35 | 1 4 | 6 48 | 0 51 | 5 45 | 1 18 | 21 4 | 0 5 | 23 26 | 0 8 | 1 44 | 1 20 | 24 40 | 5 26 | 19 34 | 19 17 | 5 57 | 14 32 | 6 28 |
| F 15 | 23 22 | 21 5 | 1 58 | 24 47 | 1 59 | 19 52 | 1 2 | 6 36 | 0 49 | 5 42 | 1 18 | 21 5 | 0 5 | 23 26 | 0 8 | 1 44 | 1 20 | 24 40 | 5 26 | 19 34 | 19 16 | 5 55 | 14 31 | 6 28 |
| S 16 | 23 24 | 20 21 | 3 5 | 24 35 | 1 57 | 20 7 | 1 0 | 6 23 | 0 48 | 5 40 | 1 18 | 21 6 | 0 5 | 23 27 | 0 8 | 1 44 | 1 21 | 24 39 | 5 26 | 19 33 | 19 15 | 5 52 | 14 31 | 6 28 |
| S 17 | 23 26 | 18 19 | 4 2 | 24 20 | 1 55 | 20 22 | 0 57 | 6 10 | 0 47 | 5 37 | 1 18 | 21 6 | 0 6 | 23 27 | 0 8 | 1 44 | 1 21 | 24 39 | 5 26 | 19 32 | 19 14 | 5 50 | 14 30 | 6 27 |
| M18 | 23 27 | 15 5 | 4 44 | 24 4 | 1 51 | 20 37 | 0 55 | 5 57 | 0 46 | 5 35 | 1 18 | 21 7 | 0 6 | 23 27 | 0 8 | 1 43 | 1 21 | 24 39 | 5 26 | 19 31 | 19 14 | 5 48 | 14 29 | 6 27 |
| T 19 | 23 28 | 10 56 | 5 7 | 23 46 | 1 48 | 20 51 | 0 53 | 5 44 | 0 45 | 5 32 | 1 17 | 21 8 | 0 6 | 23 27 | 0 8 | 1 43 | 1 21 | 24 38 | 5 26 | 19 30 | 19 13 | 5 45 | 14 28 | 6 27 |
| W20 | 23 29 | 6 9 | 5 11 | 23 27 | 1 43 | 21 4 | 0 51 | 5 31 | 0 43 | 5 30 | 1 17 | 21 9 | 0 6 | 23 27 | 0 8 | 1 43 | 1 21 | 24 38 | 5 26 | 19 29 | 19 12 | 5 43 | 14 27 | 6 27 |
| T 21 | 23 29 | 1 5 | 4 55 | 23 7 | 1 38 | 21 17 | 0 48 | 5 17 | 0 42 | 5 27 | 1 17 | 21 9 | 0 6 | 23 28 | 0 8 | 1 43 | 1 21 | 24 37 | 5 26 | 19 29 | 19 11 | 5 41 | 14 26 | 6 26 |
| F 22 | 23 28 | 3n59 | 4 21 | 22 46 | 1 32 | 21 30 | 0 46 | 5 4 | 0 41 | 5 24 | 1 17 | 21 10 | 0 6 | 23 28 | 0 8 | 1 43 | 1 21 | 24 37 | 5 26 | 19 29 | 19 11 | 5 39 | 14 25 | 6 26 |
| S 23 | 23 27 | 8 47 | 3 33 | 22 24 | 1 26 | 21 41 | 0 44 | 4 51 | 0 40 | 5 22 | 1 17 | 21 11 | 0 6 | 23 28 | 0 8 | 1 43 | 1 21 | 24 37 | 5 25 | 19 29 | 19 10 | 5 36 | 14 24 | 6 26 |
| S 24 | 23 26 | 13 3 | 2 32 | 22 1 | 1 19 | 21 52 | 0 41 | 4 37 | 0 39 | 5 19 | 1 16 | 21 12 | 0 6 | 23 28 | 0 8 | 1 43 | 1 21 | 24 36 | 5 25 | 19 29 | 19 9 | 5 34 | 14 23 | 6 25 |
| M25 | 23 25 | 16 33 | 1 24 | 21 37 | 1 11 | 22 3 | 0 39 | 4 24 | 0 37 | 5 16 | 1 16 | 21 13 | 0 6 | 23 28 | 0 8 | 1 43 | 1 21 | 24 36 | 5 25 | 19 29 | 19 8 | 5 32 | 14 22 | 6 25 |
| T 26 | 23 23 | 19 8 | 0 13 | 21 12 | 1 3 | 22 13 | 0 36 | 4 10 | 0 36 | 5 13 | 1 16 | 21 13 | 0 6 | 23 28 | 0 8 | 1 43 | 1 21 | 24 36 | 5 25 | 19 30 | 19 8 | 5 29 | 14 21 | 6 25 |
| W27 | 23 20 | 20 39 | 0s58 | 20 47 | 0 55 | 22 22 | 0 34 | 3 56 | 0 35 | 5 10 | 1 16 | 21 14 | 0 6 | 23 29 | 0 8 | 1 43 | 1 21 | 24 35 | 5 25 | 19 29 | 19 7 | 5 27 | 14 20 | 6 25 |
| T 28 | 23 17 | 21 4 | 2 4 | 20 22 | 0 46 | 22 31 | 0 32 | 3 42 | 0 34 | 5 7 | 1 16 | 21 15 | 0 7 | 23 29 | 0 8 | 1 43 | 1 21 | 24 35 | 5 25 | 19 29 | 19 6 | 5 25 | 14 18 | 6 24 |
| F 29 | 23 14 | 20 23 | 3 3 | 19 56 | 0 36 | 22 39 | 0 29 | 3 29 | 0 33 | 5 4 | 1 15 | 21 16 | 0 7 | 23 29 | 0 8 | 1 43 | 1 21 | 24 34 | 5 25 | 19 28 | 19 5 | 5 23 | 14 17 | 6 24 |
| S 30 | 23n10 | 18n43 | 3s53 | 19n30 | 0n26 | 22n46 | 0s27 | 3n15 | 0n32 | 5n 1 | 1n15 | 21s17 | 0s 7 | 23n29 | 0n 8 | 1s43 | 1s21 | 24n34 | 5n26 | 19s27 | 19s 5 | 5n20 | 14n16 | 6s24 |

Julian Day Number = 2340663.5, Delta T = 15.62 sec
Ecliptic obliquity = 23°28'38, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'09, Lahiri = 19°37'09Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## JULY 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 18 39 55 | 9♋54'22 | 27♋52 | 6♌ 0 | 22♊52 | 23♍36 | 20♍24 | 24°R54 | 24♊11 | 28°R49 | 3♌58 | 26°R33 | 25♏ 4 | 4♍ 3 | 28♋22 | S 1 |
| M 2 | 18 43 52 | 10°51'35 | 10♌ 1 | 7° 4 | 24° 5 | 24° 9 | 20°32 | 24♑50 | 24°15 | 28♓49 | 3°59 | 26♏25 | 25° 1 | 4°10 | 28°29 | M 2 |
| T 3 | 18 47 48 | 11°48'48 | 22° 1 | 8° 4 | 25°18 | 24°42 | 20°40 | 24°46 | 24°18 | 28°49 | 4° 1 | 26°17 | 24°58 | 4°17 | 28°37 | T 3 |
| W 4 | 18 51 45 | 12°46'00 | 3♍55 | 9° 1 | 26°31 | 25°15 | 20°48 | 24°41 | 24°22 | 28°49 | 4° 2 | 26°10 | 24°55 | 4°23 | 28°44 | W 4 |
| T 5 | 18 55 41 | 13°43'12 | 15°47 | 9°54 | 27°44 | 25°48 | 20°56 | 24°37 | 24°25 | 28°48 | 4° 4 | 26° 5 | 24°52 | 4°30 | 28°51 | T 5 |
| F 6 | 18 59 38 | 14°40'25 | 27°39 | 10°45 | 28°57 | 26°22 | 21° 4 | 24°33 | 24°28 | 28°48 | 4° 6 | 26° 1 | 24°48 | 4°37 | 28°58 | F 6 |
| S 7 | 19 3 34 | 15°37'37 | 9♎37 | 11°32 | 0♋11 | 26°55 | 21°12 | 24°28 | 24°32 | 28°48 | 4° 7 | 25°59 | 24°45 | 4°43 | 29° 5 | S 7 |
| S 8 | 19 7 31 | 16°34'50 | 21°45 | 12°16 | 1°24 | 27°29 | 21°21 | 24°24 | 24°35 | 28°48 | 4° 9 | 25°D59 | 24°42 | 4°50 | 29°13 | S 8 |
| M 9 | 19 11 27 | 17°32'02 | 4♏ 7 | 12°55 | 2°37 | 28° 3 | 21°29 | 24°20 | 24°39 | 28°48 | 4°11 | 26° 0 | 24°39 | 4°57 | 29°20 | M 9 |
| T 10 | 19 15 24 | 18°29'15 | 16°49 | 13°31 | 3°51 | 28°37 | 21°38 | 24°15 | 24°42 | 28°47 | 4°12 | 26° 1 | 24°36 | 5° 4 | 29°27 | T 10 |
| W11 | 19 19 21 | 19°26'27 | 29°55 | 14° 3 | 5° 4 | 29°11 | 21°47 | 24°11 | 24°45 | 28°47 | 4°14 | 26°R 1 | 24°33 | 5°10 | 29°34 | W11 |
| T 12 | 19 23 17 | 20°23'40 | 13♐28 | 14°31 | 6°17 | 29°45 | 21°55 | 24° 7 | 24°49 | 28°47 | 4°16 | 26° 0 | 24°29 | 5°17 | 29°42 | T 12 |
| F 13 | 19 27 14 | 21°20'53 | 27°27 | 14°54 | 7°31 | 0♎20 | 22° 4 | 24° 2 | 24°52 | 28°46 | 4°18 | 25°57 | 24°26 | 5°24 | 29°49 | F 13 |
| S 14 | 19 31 10 | 22°18'07 | 11♑52 | 15°13 | 8°44 | 0°54 | 22°14 | 23°58 | 24°55 | 28°46 | 4°19 | 25°51 | 24°23 | 5°30 | 29°56 | S 14 |
| S 15 | 19 35 7 | 23°15'21 | 26°37 | 15°27 | 9°57 | 1°29 | 22°23 | 23°53 | 24°59 | 28°46 | 4°21 | 25°44 | 24°20 | 5°37 | 0♌ 4 | S 15 |
| M16 | 19 39 3 | 24°12'35 | 11♒34 | 15°37 | 11°11 | 2° 3 | 22°32 | 23°49 | 25° 2 | 28°45 | 4°23 | 25°35 | 24°17 | 5°44 | 0°11 | M16 |
| T 17 | 19 43 0 | 25° 9'50 | 26°35 | 15°R42 | 12°24 | 2°38 | 22°41 | 23°44 | 25° 5 | 28°45 | 4°24 | 25°26 | 24°13 | 5°51 | 0°18 | T 17 |
| W18 | 19 46 56 | 26° 7'06 | 11♓30 | 15°41 | 13°38 | 3°13 | 22°51 | 23°40 | 25° 8 | 28°44 | 4°26 | 25°19 | 24°10 | 5°57 | 0°26 | W18 |
| T 19 | 19 50 53 | 27° 4'23 | 26°11 | 15°36 | 14°51 | 3°48 | 23° 0 | 23°36 | 25°11 | 28°43 | 4°28 | 25°13 | 24° 7 | 6° 4 | 0°33 | T 19 |
| F 20 | 19 54 50 | 28° 1'40 | 10♈32 | 15°26 | 16° 5 | 4°24 | 23°10 | 23°31 | 25°15 | 28°43 | 4°30 | 25°10 | 24° 4 | 6°11 | 0°40 | F 20 |
| S 21 | 19 58 46 | 28°58'59 | 24°33 | 15°11 | 17°19 | 4°59 | 23°20 | 23°27 | 25°18 | 28°42 | 4°31 | 25°D 9 | 24° 1 | 6°17 | 0°48 | S 21 |
| S 22 | 20 2 43 | 29°56'18 | 8♉12 | 14°51 | 18°32 | 5°34 | 23°30 | 23°22 | 25°21 | 28°42 | 4°33 | 25° 9 | 23°58 | 6°24 | 0°55 | S 22 |
| M23 | 20 6 39 | 0♌53'39 | 21°31 | 14°26 | 19°46 | 6°10 | 23°40 | 23°18 | 25°24 | 28°41 | 4°35 | 25°R 9 | 23°54 | 6°31 | 1° 2 | M23 |
| T 24 | 20 10 36 | 1°51'01 | 4♊32 | 13°57 | 21° 0 | 6°46 | 23°50 | 23°14 | 25°27 | 28°40 | 4°37 | 25° 9 | 23°51 | 6°38 | 1°10 | T 24 |
| W25 | 20 14 32 | 2°48'23 | 17°18 | 13°24 | 22°13 | 7°21 | 24° 0 | 23° 9 | 25°30 | 28°39 | 4°38 | 25° 7 | 23°48 | 6°44 | 1°17 | W25 |
| T 26 | 20 18 29 | 3°45'47 | 29°52 | 12°47 | 23°27 | 7°57 | 24°10 | 23° 5 | 25°33 | 28°39 | 4°40 | 25° 2 | 23°45 | 6°51 | 1°25 | T 26 |
| F 27 | 20 22 25 | 4°43'12 | 12♋16 | 12° 6 | 24°41 | 8°34 | 24°20 | 23° 1 | 25°36 | 28°38 | 4°42 | 24°55 | 23°42 | 6°58 | 1°32 | F 27 |
| S 28 | 20 26 22 | 5°40'38 | 24°31 | 11°24 | 25°54 | 9°10 | 24°31 | 22°56 | 25°39 | 28°37 | 4°44 | 24°45 | 23°39 | 7° 5 | 1°39 | S 28 |
| S 29 | 20 30 19 | 6°38'05 | 6♌38 | 10°39 | 27° 8 | 9°46 | 24°41 | 22°52 | 25°42 | 28°36 | 4°45 | 24°33 | 23°35 | 7°11 | 1°47 | S 29 |
| M30 | 20 34 15 | 7°35'32 | 18°39 | 9°53 | 28°22 | 10°22 | 24°52 | 22°48 | 25°45 | 28°35 | 4°47 | 24°20 | 23°32 | 7°18 | 1°54 | M30 |
| T 31 | 20 38 12 | 8♌33'01 | 0♍35 | 9♌ 6 | 29♋36 | 10♎59 | 25♍ 2 | 22♑44 | 25♊48 | 28♓34 | 4♌49 | 24♏ 7 | 23♏29 | 7♍25 | 2♌ 2 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 6 | 16n12 | 4s30 | 19n 3 | 0n16 | 22n53 | 0s24 | 3n 1 | 0n31 | 4n58 | 1n15 | 21s18 | 0s 7 | 23n29 | 0n 8 | 1s43 | 1s21 | 24n34 | 5n26 | 19s25 | 19s 4 | 5n18 | 14n15 | 6s24 |
| M 2 | 23 2 | 13 1 | 4 55 | 18 37 | 0 5 | 22 59 | 0 22 | 2 47 | 0 30 | 4 54 | 1 15 | 21 19 | 0 7 | 23 29 | 0 8 | 1 43 | 1 21 | 24 33 | 5 26 | 19 23 | 19 3 | 5 16 | 14 14 | 6 24 |
| T 3 | 22 57 | 9 21 | 5 7 | 18 11 | 0s 6 | 23 5 | 0 19 | 2 33 | 0 29 | 4 51 | 1 15 | 21 19 | 0 7 | 23 30 | 0 8 | 1 43 | 1 21 | 24 33 | 5 26 | 19 21 | 19 2 | 5 13 | 14 13 | 6 23 |
| W 4 | 22 52 | 5 21 | 5 5 | 17 44 | 0 18 | 23 9 | 0 17 | 2 19 | 0 27 | 4 48 | 1 15 | 21 20 | 0 7 | 23 30 | 0 8 | 1 43 | 1 21 | 24 33 | 5 26 | 19 20 | 19 2 | 5 11 | 14 11 | 6 23 |
| T 5 | 22 46 | 1 10 | 4 50 | 17 18 | 0 30 | 23 13 | 0 14 | 2 4 | 0 26 | 4 44 | 1 14 | 21 21 | 0 7 | 23 30 | 0 8 | 1 43 | 1 22 | 24 32 | 5 26 | 19 18 | 19 1 | 5 9 | 14 10 | 6 23 |
| F 6 | 22 40 | 3s 5 | 4 22 | 16 53 | 0 43 | 23 17 | 0 12 | 1 50 | 0 25 | 4 41 | 1 14 | 21 22 | 0 7 | 23 30 | 0 8 | 1 43 | 1 22 | 24 32 | 5 26 | 19 17 | 19 0 | 5 7 | 14 9 | 6 23 |
| S 7 | 22 34 | 7 14 | 3 43 | 16 28 | 0 56 | 23 20 | 0 9 | 1 36 | 0 24 | 4 38 | 1 14 | 21 23 | 0 7 | 23 30 | 0 8 | 1 44 | 1 22 | 24 31 | 5 26 | 19 17 | 18 59 | 5 4 | 14 8 | 6 23 |
| S 8 | 22 27 | 11 10 | 2 54 | 16 3 | 1 9 | 23 22 | 0 7 | 1 21 | 0 23 | 4 34 | 1 14 | 21 24 | 0 7 | 23 30 | 0 8 | 1 44 | 1 22 | 24 31 | 5 26 | 19 17 | 18 58 | 5 2 | 14 6 | 6 23 |
| M 9 | 22 20 | 14 43 | 1 55 | 15 39 | 1 22 | 23 23 | 0 4 | 1 7 | 0 22 | 4 31 | 1 14 | 21 25 | 0 8 | 23 31 | 0 8 | 1 44 | 1 22 | 24 31 | 5 26 | 19 17 | 18 58 | 5 0 | 14 5 | 6 22 |
| T 10 | 22 12 | 17 41 | 0 49 | 15 16 | 1 36 | 23 24 | 0 2 | 0 53 | 0 21 | 4 27 | 1 14 | 21 25 | 0 8 | 23 31 | 0 8 | 1 44 | 1 22 | 24 30 | 5 26 | 19 17 | 18 57 | 4 58 | 14 4 | 6 22 |
| W11 | 22 4 | 19 49 | 0n21 | 14 53 | 1 50 | 23 24 | 0n 1 | 0 38 | 0 20 | 4 23 | 1 13 | 21 26 | 0 8 | 23 31 | 0 8 | 1 44 | 1 22 | 24 30 | 5 26 | 19 17 | 18 56 | 4 55 | 14 2 | 6 22 |
| T 12 | 21 56 | 20 56 | 1 32 | 14 32 | 2 3 | 23 23 | 0 3 | 0 23 | 0 19 | 4 20 | 1 13 | 21 27 | 0 8 | 23 31 | 0 9 | 1 44 | 1 22 | 24 29 | 5 26 | 19 17 | 18 55 | 4 53 | 14 1 | 6 22 |
| F 13 | 21 47 | 20 47 | 2 40 | 14 12 | 2 17 | 23 22 | 0 6 | 0 9 | 0 18 | 4 16 | 1 13 | 21 28 | 0 8 | 23 31 | 0 9 | 1 44 | 1 22 | 24 29 | 5 26 | 19 16 | 18 55 | 4 51 | 14 0 | 6 22 |
| S 14 | 21 38 | 19 18 | 3 40 | 13 53 | 2 31 | 23 20 | 0 8 | 0s 6 | 0 17 | 4 12 | 1 13 | 21 29 | 0 8 | 23 31 | 0 9 | 1 45 | 1 22 | 24 29 | 5 26 | 19 15 | 18 54 | 4 48 | 13 58 | 6 22 |
| S 15 | 21 28 | 16 30 | 4 26 | 13 36 | 2 45 | 23 17 | 0 11 | 0 21 | 0 16 | 4 9 | 1 13 | 21 30 | 0 8 | 23 31 | 0 9 | 1 45 | 1 22 | 24 28 | 5 26 | 19 13 | 18 53 | 4 46 | 13 57 | 6 22 |
| M16 | 21 18 | 12 36 | 4 55 | 13 20 | 2 59 | 23 14 | 0 13 | 0 35 | 0 15 | 4 5 | 1 13 | 21 31 | 0 8 | 23 32 | 0 9 | 1 45 | 1 22 | 24 28 | 5 26 | 19 11 | 18 52 | 4 44 | 13 55 | 6 22 |
| T 17 | 21 8 | 7 54 | 5 4 | 13 5 | 3 13 | 23 9 | 0 16 | 0 50 | 0 14 | 4 1 | 1 12 | 21 31 | 0 8 | 23 32 | 0 9 | 1 45 | 1 22 | 24 28 | 5 26 | 19 9 | 18 51 | 4 42 | 13 54 | 6 22 |
| W18 | 20 58 | 2 45 | 4 52 | 12 53 | 3 26 | 23 5 | 0 18 | 1 5 | 0 13 | 3 57 | 1 12 | 21 32 | 0 8 | 23 32 | 0 9 | 1 46 | 1 22 | 24 27 | 5 26 | 19 7 | 18 51 | 4 39 | 13 53 | 6 22 |
| T 19 | 20 47 | 2n29 | 4 21 | 12 42 | 3 39 | 22 59 | 0 20 | 1 20 | 0 12 | 3 53 | 1 12 | 21 33 | 0 8 | 23 32 | 0 9 | 1 46 | 1 22 | 24 27 | 5 26 | 19 6 | 18 50 | 4 37 | 13 51 | 6 22 |
| F 20 | 20 35 | 7 28 | 3 34 | 12 33 | 3 51 | 22 53 | 0 23 | 1 35 | 0 11 | 3 49 | 1 12 | 21 34 | 0 8 | 23 32 | 0 9 | 1 46 | 1 22 | 24 26 | 5 26 | 19 5 | 18 49 | 4 35 | 13 50 | 6 21 |
| S 21 | 20 24 | 11 56 | 2 36 | 12 26 | 4 3 | 22 46 | 0 25 | 1 50 | 0 10 | 3 45 | 1 12 | 21 35 | 0 9 | 23 32 | 0 9 | 1 46 | 1 22 | 24 26 | 5 26 | 19 5 | 18 48 | 4 32 | 13 48 | 6 21 |
| S 22 | 20 12 | 15 40 | 1 29 | 12 22 | 4 14 | 22 39 | 0 27 | 2 4 | 0 9 | 3 41 | 1 12 | 21 36 | 0 9 | 23 32 | 0 9 | 1 47 | 1 22 | 24 26 | 5 26 | 19 5 | 18 48 | 4 30 | 13 47 | 6 21 |
| M23 | 19 59 | 18 29 | 0 19 | 12 19 | 4 23 | 22 31 | 0 30 | 2 19 | 0 8 | 3 37 | 1 12 | 21 36 | 0 9 | 23 32 | 0 9 | 1 47 | 1 22 | 24 25 | 5 26 | 19 5 | 18 47 | 4 28 | 13 45 | 6 21 |
| T 24 | 19 47 | 20 16 | 0s50 | 12 19 | 4 32 | 22 22 | 0 32 | 2 34 | 0 7 | 3 33 | 1 11 | 21 37 | 0 9 | 23 33 | 0 9 | 1 47 | 1 22 | 24 25 | 5 26 | 19 5 | 18 46 | 4 26 | 13 43 | 6 21 |
| W25 | 19 34 | 20 58 | 1 55 | 12 21 | 4 40 | 22 12 | 0 34 | 2 49 | 0 7 | 3 29 | 1 11 | 21 38 | 0 9 | 23 33 | 0 9 | 1 48 | 1 23 | 24 25 | 5 26 | 19 4 | 18 45 | 4 23 | 13 42 | 6 21 |
| T 26 | 19 20 | 20 35 | 2 53 | 12 26 | 4 46 | 22 2 | 0 36 | 3 5 | 0 6 | 3 25 | 1 11 | 21 39 | 0 9 | 23 33 | 0 9 | 1 48 | 1 23 | 24 24 | 5 26 | 19 3 | 18 44 | 4 21 | 13 40 | 6 21 |
| F 27 | 19 7 | 19 13 | 3 42 | 12 32 | 4 50 | 21 51 | 0 38 | 3 20 | 0 5 | 3 20 | 1 11 | 21 40 | 0 9 | 23 33 | 0 9 | 1 48 | 1 23 | 24 24 | 5 27 | 19 2 | 18 44 | 4 19 | 13 39 | 6 21 |
| S 28 | 18 53 | 16 59 | 4 21 | 12 41 | 4 53 | 21 40 | 0 41 | 3 35 | 0 4 | 3 16 | 1 11 | 21 40 | 0 9 | 23 33 | 0 9 | 1 49 | 1 23 | 24 23 | 5 27 | 18 59 | 18 43 | 4 17 | 13 37 | 6 21 |
| S 29 | 18 39 | 14 1 | 4 46 | 12 52 | 4 55 | 21 28 | 0 43 | 3 50 | 0 3 | 3 12 | 1 11 | 21 41 | 0 9 | 23 33 | 0 9 | 1 49 | 1 23 | 24 23 | 5 27 | 18 56 | 18 42 | 4 14 | 13 36 | 6 21 |
| M30 | 18 24 | 10 31 | 4 59 | 13 5 | 4 54 | 21 15 | 0 45 | 4 5 | 0 2 | 3 8 | 1 11 | 21 42 | 0 9 | 23 33 | 0 9 | 1 50 | 1 23 | 24 23 | 5 27 | 18 53 | 18 41 | 4 12 | 13 34 | 6 21 |
| T 31 | 18n 9 | 6n37 | 4s59 | 13n19 | 4s52 | 21n 2 | 0n47 | 4s20 | 0n 1 | 3n 3 | 1n11 | 21s43 | 0s 9 | 23n33 | 0n 9 | 1s50 | 1s23 | 24n22 | 5n27 | 18s50 | 18s40 | 4n10 | 13n32 | 6s21 |

Julian Day Number = 2340693.5, Delta T = 15.59 sec
Ecliptic obliquity = 23°28'38, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'13, Lahiri = 19°37'14Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## AUGUST 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 20 42 8 | 9♌30'30 | 12♍27 | 8°R20 | 0♌50 | 11♎36 | 25♍13 | 22°R39 | 25♊50 | 28°R34 | 4♌51 | 23°R55 | 23♏26 | 7♍31 | 2♌ 9 | W 1 |
| T 2 | 20 46 5 | 10°28'01 | 24°17 | 7♌35 | 2° 4 | 12°12 | 25°24 | 22♑35 | 25°53 | 28♓33 | 4°52 | 23♏46 | 23°23 | 7°38 | 2°16 | T 2 |
| F 3 | 20 50 1 | 11°25'32 | 6♎ 8 | 6°53 | 3°18 | 12°49 | 25°35 | 22°31 | 25°56 | 28°32 | 4°54 | 23°38 | 23°19 | 7°45 | 2°24 | F 3 |
| S 4 | 20 53 58 | 12°23'04 | 18° 5 | 6°13 | 4°32 | 13°26 | 25°46 | 22°27 | 25°59 | 28°31 | 4°56 | 23°34 | 23°16 | 7°52 | 2°31 | S 4 |
| S 5 | 20 57 54 | 13°20'37 | 0♏10 | 5°38 | 5°46 | 14° 3 | 25°56 | 22°23 | 26° 1 | 28°30 | 4°58 | 23°32 | 23°13 | 7°58 | 2°38 | S 5 |
| M 6 | 21 1 51 | 14°18'11 | 12°29 | 5° 6 | 7° 0 | 14°40 | 26° 8 | 22°19 | 26° 4 | 28°28 | 4°59 | 23°D31 | 23°10 | 8° 5 | 2°46 | M 6 |
| T 7 | 21 5 48 | 15°15'46 | 25° 8 | 4°41 | 8°14 | 15°18 | 26°19 | 22°15 | 26° 7 | 28°27 | 5° 1 | 23°R31 | 23° 7 | 8°12 | 2°53 | T 7 |
| W 8 | 21 9 44 | 16°13'22 | 8♐10 | 4°21 | 9°28 | 15°55 | 26°30 | 22°11 | 26° 9 | 28°26 | 5° 3 | 23°31 | 23° 4 | 8°18 | 3° 0 | W 8 |
| T 9 | 21 13 41 | 17°10'58 | 21°40 | 4° 7 | 10°42 | 16°33 | 26°41 | 22° 8 | 26°12 | 28°25 | 5° 5 | 23°28 | 23° 0 | 8°25 | 3° 8 | T 9 |
| F 10 | 21 17 37 | 18° 8'36 | 5♑39 | 4°D 0 | 11°56 | 17°10 | 26°52 | 22° 4 | 26°14 | 28°24 | 5° 6 | 23°24 | 22°57 | 8°32 | 3°15 | F 10 |
| S 11 | 21 21 34 | 19° 6'15 | 20° 7 | 4° 0 | 13°10 | 17°48 | 27° 4 | 22° 0 | 26°17 | 28°23 | 5° 8 | 23°17 | 22°54 | 8°39 | 3°22 | S 11 |
| S 12 | 21 25 30 | 20° 3'55 | 5♒ 1 | 4° 7 | 14°24 | 18°26 | 27°15 | 21°56 | 26°19 | 28°22 | 5°10 | 23° 8 | 22°51 | 8°45 | 3°29 | S 12 |
| M13 | 21 29 27 | 21° 1'36 | 20°11 | 4°22 | 15°38 | 19° 4 | 27°27 | 21°53 | 26°22 | 28°20 | 5°11 | 22°57 | 22°48 | 8°52 | 3°37 | M13 |
| T 14 | 21 33 23 | 21°59'19 | 5♓29 | 4°44 | 16°52 | 19°42 | 27°38 | 21°49 | 26°24 | 28°19 | 5°13 | 22°46 | 22°45 | 8°59 | 3°44 | T 14 |
| W15 | 21 37 20 | 22°57'03 | 20°42 | 5°14 | 18° 6 | 20°20 | 27°50 | 21°46 | 26°26 | 28°18 | 5°15 | 22°36 | 22°41 | 9° 5 | 3°51 | W15 |
| T 16 | 21 41 17 | 23°54'48 | 5♈40 | 5°51 | 19°21 | 20°58 | 28° 2 | 21°42 | 26°29 | 28°17 | 5°16 | 22°29 | 22°38 | 9°12 | 3°58 | T 16 |
| F 17 | 21 45 13 | 24°52'36 | 20°15 | 6°36 | 20°35 | 21°36 | 28°13 | 21°39 | 26°31 | 28°15 | 5°18 | 22°24 | 22°35 | 9°19 | 4° 5 | F 17 |
| S 18 | 21 49 10 | 25°50'24 | 4♉25 | 7°27 | 21°49 | 22°15 | 28°25 | 21°36 | 26°33 | 28°14 | 5°20 | 22°22 | 22°32 | 9°26 | 4°12 | S 18 |
| S 19 | 21 53 6 | 26°48'15 | 18° 8 | 8°26 | 23° 3 | 22°53 | 28°37 | 21°33 | 26°35 | 28°13 | 5°21 | 22°21 | 22°29 | 9°32 | 4°20 | S 19 |
| M20 | 21 57 3 | 27°46'08 | 1♊26 | 9°31 | 24°18 | 23°32 | 28°49 | 21°29 | 26°38 | 28°11 | 5°23 | 22°21 | 22°25 | 9°39 | 4°27 | M20 |
| T 21 | 22 0 59 | 28°44'02 | 14°22 | 10°43 | 25°32 | 24°10 | 29° 1 | 21°26 | 26°40 | 28°10 | 5°25 | 22°20 | 22°22 | 9°46 | 4°34 | T 21 |
| W22 | 22 4 56 | 29°41'58 | 26°59 | 12° 1 | 26°46 | 24°49 | 29°13 | 21°23 | 26°42 | 28° 8 | 5°26 | 22°18 | 22°19 | 9°52 | 4°41 | W22 |
| T 23 | 22 8 52 | 0♍39'57 | 9♋23 | 13°24 | 28° 1 | 25°28 | 29°25 | 21°20 | 26°44 | 28° 7 | 5°28 | 22°13 | 22°16 | 9°59 | 4°48 | T 23 |
| F 24 | 22 12 49 | 1°37'56 | 21°35 | 14°52 | 29°15 | 26° 7 | 29°37 | 21°18 | 26°46 | 28° 6 | 5°30 | 22° 5 | 22°13 | 10° 6 | 4°55 | F 24 |
| S 25 | 22 16 46 | 2°35'58 | 3♌40 | 16°26 | 0♍29 | 26°46 | 29°49 | 21°15 | 26°48 | 28° 4 | 5°31 | 21°55 | 22°10 | 10°13 | 5° 2 | S 25 |
| S 26 | 22 20 42 | 3°34'01 | 15°39 | 18° 3 | 1°44 | 27°25 | 0♎ 2 | 21°12 | 26°50 | 28° 3 | 5°33 | 21°43 | 22° 6 | 10°19 | 5° 9 | S 26 |
| M27 | 22 24 39 | 4°32'06 | 27°34 | 19°44 | 2°58 | 28° 4 | 0°14 | 21° 9 | 26°51 | 28° 1 | 5°34 | 21°29 | 22° 3 | 10°26 | 5°15 | M27 |
| T 28 | 22 28 35 | 5°30'13 | 9♍26 | 21°28 | 4°13 | 28°44 | 0°26 | 21° 7 | 26°53 | 28° 0 | 5°36 | 21°15 | 22° 0 | 10°33 | 5°22 | T 28 |
| W29 | 22 32 32 | 6°28'21 | 21°17 | 23°16 | 5°27 | 29°23 | 0°38 | 21° 4 | 26°55 | 27°58 | 5°37 | 21° 3 | 21°57 | 10°40 | 5°29 | W29 |
| T 30 | 22 36 28 | 7°26'32 | 3♎ 8 | 25° 5 | 6°42 | 0♏ 3 | 0°51 | 21° 2 | 26°57 | 27°57 | 5°39 | 20°52 | 21°54 | 10°46 | 5°36 | T 30 |
| F 31 | 22 40 25 | 8♍24'43 | 15♎ 2 | 26♌56 | 7♍56 | 0♏42 | 1♎ 3 | 21♑ 0 | 26♊58 | 27♓55 | 5♌40 | 20♏44 | 21♏51 | 10♍53 | 5♌43 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17n54 | 2n30 | 4s46 | 13n35 | 4s48 | 20n48 | 0n49 | 4s35 | 0n 0 | 2n59 | 1n10 | 21s44 | 0s10 | 23n33 | 0n 9 | 1s50 | 1s23 | 24n22 | 5n27 | 18s47 | 18s40 | 4n 7 | 13n31 | 6s22 |
| T 2 | 17 39 | 1s42 | 4 20 | 13 52 | 4 42 | 20 33 | 0 51 | 4 50 | 0s 1 | 2 54 | 1 10 | 21 44 | 0 10 | 23 34 | 0 9 | 1 51 | 1 23 | 24 22 | 5 27 | 18 45 | 18 39 | 4 5 | 13 29 | 6 22 |
| F 3 | 17 23 | 5 51 | 3 43 | 14 10 | 4 34 | 20 18 | 0 53 | 5 6 | 0 2 | 2 50 | 1 10 | 21 45 | 0 10 | 23 34 | 0 9 | 1 51 | 1 23 | 24 21 | 5 27 | 18 43 | 18 38 | 4 3 | 13 27 | 6 22 |
| S 4 | 17 7 | 9 48 | 2 56 | 14 28 | 4 25 | 20 2 | 0 54 | 5 21 | 0 2 | 2 46 | 1 10 | 21 46 | 0 10 | 23 34 | 0 9 | 1 52 | 1 23 | 24 21 | 5 27 | 18 42 | 18 37 | 4 1 | 13 26 | 6 22 |
| S 5 | 16 50 | 13 25 | 2 0 | 14 48 | 4 14 | 19 46 | 0 56 | 5 36 | 0 3 | 2 41 | 1 10 | 21 47 | 0 10 | 23 34 | 0 9 | 1 52 | 1 23 | 24 21 | 5 27 | 18 41 | 18 36 | 3 58 | 13 24 | 6 22 |
| M 6 | 16 34 | 16 32 | 0 58 | 15 7 | 4 1 | 19 29 | 0 58 | 5 51 | 0 4 | 2 37 | 1 10 | 21 47 | 0 10 | 23 34 | 0 9 | 1 53 | 1 23 | 24 20 | 5 27 | 18 41 | 18 36 | 3 56 | 13 22 | 6 22 |
| T 7 | 16 17 | 18 56 | 0n 9 | 15 26 | 3 48 | 19 12 | 1 0 | 6 6 | 0 5 | 2 32 | 1 10 | 21 48 | 0 10 | 23 34 | 0 9 | 1 53 | 1 23 | 24 20 | 5 27 | 18 41 | 18 35 | 3 54 | 13 21 | 6 22 |
| W 8 | 16 0 | 20 26 | 1 17 | 15 45 | 3 33 | 18 54 | 1 1 | 6 22 | 0 6 | 2 28 | 1 10 | 21 49 | 0 10 | 23 34 | 0 9 | 1 54 | 1 23 | 24 20 | 5 28 | 18 41 | 18 34 | 3 52 | 13 19 | 6 22 |
| T 9 | 15 43 | 20 50 | 2 23 | 16 3 | 3 18 | 18 35 | 1 3 | 6 37 | 0 7 | 2 23 | 1 10 | 21 49 | 0 10 | 23 34 | 0 9 | 1 54 | 1 23 | 24 19 | 5 28 | 18 40 | 18 33 | 3 49 | 13 17 | 6 22 |
| F 10 | 15 25 | 19 59 | 3 23 | 16 21 | 3 1 | 18 16 | 1 4 | 6 52 | 0 7 | 2 18 | 1 9 | 21 50 | 0 10 | 23 34 | 0 9 | 1 55 | 1 23 | 24 19 | 5 28 | 18 39 | 18 32 | 3 47 | 13 15 | 6 22 |
| S 11 | 15 7 | 17 49 | 4 12 | 16 37 | 2 44 | 17 57 | 1 6 | 7 7 | 0 8 | 2 14 | 1 9 | 21 51 | 0 10 | 23 34 | 0 9 | 1 55 | 1 23 | 24 19 | 5 28 | 18 37 | 18 32 | 3 45 | 13 14 | 6 22 |
| S 12 | 14 49 | 14 25 | 4 46 | 16 52 | 2 27 | 17 37 | 1 7 | 7 22 | 0 9 | 2 9 | 1 9 | 21 51 | 0 10 | 23 34 | 0 9 | 1 56 | 1 23 | 24 18 | 5 28 | 18 35 | 18 31 | 3 43 | 13 12 | 6 23 |
| M13 | 14 31 | 10 2 | 5 0 | 17 6 | 2 10 | 17 16 | 1 9 | 7 38 | 0 10 | 2 4 | 1 9 | 21 52 | 0 10 | 23 35 | 0 9 | 1 56 | 1 23 | 24 18 | 5 28 | 18 32 | 18 30 | 3 40 | 13 10 | 6 23 |
| T 14 | 14 12 | 4 58 | 4 53 | 17 18 | 1 52 | 16 55 | 1 10 | 7 53 | 0 11 | 2 0 | 1 9 | 21 53 | 0 11 | 23 35 | 0 9 | 1 57 | 1 23 | 24 18 | 5 28 | 18 30 | 18 29 | 3 38 | 13 8 | 6 23 |
| W15 | 13 53 | 0n22 | 4 25 | 17 27 | 1 35 | 16 34 | 1 12 | 8 8 | 0 12 | 1 55 | 1 9 | 21 53 | 0 11 | 23 35 | 0 9 | 1 57 | 1 23 | 24 17 | 5 28 | 18 27 | 18 28 | 3 36 | 13 7 | 6 23 |
| T 16 | 13 34 | 5 37 | 3 40 | 17 35 | 1 18 | 16 12 | 1 13 | 8 23 | 0 12 | 1 50 | 1 9 | 21 54 | 0 11 | 23 35 | 0 9 | 1 58 | 1 23 | 24 17 | 5 28 | 18 25 | 18 28 | 3 33 | 13 5 | 6 23 |
| F 17 | 13 15 | 10 24 | 2 41 | 17 40 | 1 1 | 15 49 | 1 14 | 8 38 | 0 13 | 1 46 | 1 9 | 21 55 | 0 11 | 23 35 | 0 9 | 1 58 | 1 23 | 24 17 | 5 29 | 18 24 | 18 27 | 3 31 | 13 3 | 6 23 |
| S 18 | 12 56 | 14 29 | 1 33 | 17 43 | 0 44 | 15 26 | 1 15 | 8 53 | 0 14 | 1 41 | 1 9 | 21 55 | 0 11 | 23 35 | 0 9 | 1 59 | 1 24 | 24 16 | 5 29 | 18 23 | 18 26 | 3 29 | 13 1 | 6 24 |
| S 19 | 12 36 | 17 37 | 0 22 | 17 44 | 0 28 | 15 3 | 1 16 | 9 8 | 0 15 | 1 36 | 1 9 | 21 56 | 0 11 | 23 35 | 0 9 | 1 59 | 1 24 | 24 16 | 5 29 | 18 23 | 18 25 | 3 27 | 12 59 | 6 24 |
| M20 | 12 16 | 19 42 | 0s48 | 17 41 | 0 13 | 14 39 | 1 17 | 9 23 | 0 15 | 1 31 | 1 9 | 21 56 | 0 11 | 23 35 | 0 9 | 2 0 | 1 24 | 24 16 | 5 29 | 18 23 | 18 24 | 3 24 | 12 57 | 6 24 |
| T 21 | 11 56 | 20 41 | 1 54 | 17 36 | 0n 1 | 14 15 | 1 18 | 9 38 | 0 16 | 1 26 | 1 8 | 21 57 | 0 11 | 23 35 | 0 9 | 2 1 | 1 24 | 24 15 | 5 29 | 18 23 | 18 24 | 3 22 | 12 56 | 6 24 |
| W22 | 11 36 | 20 35 | 2 52 | 17 28 | 0 15 | 13 51 | 1 19 | 9 53 | 0 17 | 1 21 | 1 8 | 21 57 | 0 11 | 23 35 | 0 9 | 2 1 | 1 24 | 24 15 | 5 29 | 18 22 | 18 23 | 3 20 | 12 54 | 6 25 |
| T 23 | 11 15 | 19 28 | 3 41 | 17 16 | 0 28 | 13 26 | 1 20 | 10 8 | 0 18 | 1 17 | 1 8 | 21 58 | 0 11 | 23 35 | 0 9 | 2 2 | 1 24 | 24 15 | 5 29 | 18 21 | 18 22 | 3 18 | 12 52 | 6 25 |
| F 24 | 10 55 | 17 28 | 4 19 | 17 2 | 0 40 | 13 1 | 1 21 | 10 23 | 0 18 | 1 12 | 1 8 | 21 59 | 0 11 | 23 35 | 0 9 | 2 2 | 1 24 | 24 15 | 5 29 | 18 19 | 18 21 | 3 15 | 12 50 | 6 25 |
| S 25 | 10 34 | 14 44 | 4 45 | 16 45 | 0 51 | 12 35 | 1 21 | 10 38 | 0 19 | 1 7 | 1 8 | 21 59 | 0 11 | 23 35 | 0 9 | 2 3 | 1 24 | 24 14 | 5 30 | 18 16 | 18 20 | 3 13 | 12 48 | 6 25 |
| S 26 | 10 13 | 11 25 | 4 59 | 16 25 | 1 1 | 12 9 | 1 22 | 10 53 | 0 20 | 1 2 | 1 8 | 21 59 | 0 11 | 23 36 | 0 9 | 2 4 | 1 24 | 24 14 | 5 30 | 18 13 | 18 19 | 3 11 | 12 46 | 6 25 |
| M27 | 9 52 | 7 40 | 4 59 | 16 2 | 1 10 | 11 43 | 1 22 | 11 8 | 0 21 | 0 57 | 1 8 | 22 0 | 0 12 | 23 36 | 0 9 | 2 4 | 1 24 | 24 14 | 5 30 | 18 10 | 18 19 | 3 9 | 12 45 | 6 26 |
| T 28 | 9 30 | 3 38 | 4 46 | 15 36 | 1 18 | 11 16 | 1 23 | 11 22 | 0 21 | 0 52 | 1 8 | 22 0 | 0 12 | 23 36 | 0 9 | 2 5 | 1 24 | 24 14 | 5 30 | 18 6 | 18 18 | 3 6 | 12 43 | 6 26 |
| W29 | 9 9 | 0s31 | 4 20 | 15 7 | 1 25 | 10 49 | 1 23 | 11 37 | 0 22 | 0 47 | 1 8 | 22 1 | 0 12 | 23 36 | 0 9 | 2 5 | 1 24 | 24 13 | 5 30 | 18 3 | 18 17 | 3 4 | 12 41 | 6 26 |
| T 30 | 8 47 | 4 40 | 3 43 | 14 37 | 1 31 | 10 22 | 1 24 | 11 52 | 0 23 | 0 42 | 1 8 | 22 1 | 0 12 | 23 36 | 0 9 | 2 6 | 1 24 | 24 13 | 5 30 | 18 0 | 18 16 | 3 2 | 12 39 | 6 27 |
| F 31 | 8n26 | 8s39 | 2s57 | 14n 3 | 1n36 | 9n54 | 1n24 | 12s 6 | 0s24 | 0n37 | 1n 8 | 22s 2 | 0s12 | 23n36 | 0n 9 | 2s 7 | 1s24 | 24n13 | 5n30 | 17s58 | 18s15 | 3n 0 | 12n37 | 6s27 |

Julian Day Number = 2340724.5, Delta T = 15.55 sec
Ecliptic obliquity = 23°28'38, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'17, Lahiri = 19°37'18Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## SEPTEMBER 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 44 21 | 9♍22'56 | 27♎ 1 | 28♌49 | 9♍11 | 1♏22 | 1♎16 | 20°R58 | 27♊ 0 | 27°R54 | 5♌42 | 20°R39 | 21♏47 | 11♍ 0 | 5♌49 | S 1 |
| S 2 | 22 48 18 | 10°21'11 | 9♏ 8 | 0♍43 | 10°25 | 2° 2 | 1°28 | 20♑55 | 27° 1 | 27♓52 | 5°43 | 20♏37 | 21°44 | 11° 6 | 5°56 | S 2 |
| M 3 | 22 52 14 | 11°19'28 | 21°28 | 2°37 | 11°40 | 2°42 | 1°41 | 20°53 | 27° 3 | 27°50 | 5°45 | 20°D36 | 21°41 | 11°13 | 6° 2 | M 3 |
| T 4 | 22 56 11 | 12°17'46 | 4♐ 4 | 4°32 | 12°54 | 3°22 | 1°53 | 20°51 | 27° 4 | 27°49 | 5°46 | 20°37 | 21°38 | 11°20 | 6° 9 | T 4 |
| W 5 | 23 0 8 | 13°16'05 | 17° 2 | 6°27 | 14° 9 | 4° 2 | 2° 6 | 20°50 | 27° 6 | 27°47 | 5°48 | 20°R37 | 21°35 | 11°27 | 6°16 | W 5 |
| T 6 | 23 4 4 | 14°14'27 | 0♑25 | 8°22 | 15°24 | 4°42 | 2°18 | 20°48 | 27° 7 | 27°46 | 5°49 | 20°36 | 21°31 | 11°33 | 6°22 | T 6 |
| F 7 | 23 8 1 | 15°12'49 | 14°17 | 10°17 | 16°38 | 5°23 | 2°31 | 20°46 | 27° 9 | 27°44 | 5°51 | 20°33 | 21°28 | 11°40 | 6°29 | F 7 |
| S 8 | 23 11 57 | 16°11'14 | 28°37 | 12°11 | 17°53 | 6° 3 | 2°44 | 20°45 | 27°10 | 27°42 | 5°52 | 20°27 | 21°25 | 11°47 | 6°35 | S 8 |
| S 9 | 23 15 54 | 17° 9'40 | 13♒24 | 14° 5 | 19° 8 | 6°43 | 2°56 | 20°43 | 27°11 | 27°41 | 5°54 | 20°19 | 21°22 | 11°53 | 6°41 | S 9 |
| M10 | 23 19 50 | 18° 8'07 | 28°31 | 15°58 | 20°22 | 7°24 | 3° 9 | 20°42 | 27°12 | 27°39 | 5°55 | 20°10 | 21°19 | 12° 0 | 6°48 | M10 |
| T 11 | 23 23 47 | 19° 6'36 | 13♓49 | 17°50 | 21°37 | 8° 4 | 3°22 | 20°40 | 27°13 | 27°38 | 5°56 | 20° 1 | 21°16 | 12° 7 | 6°54 | T 11 |
| W12 | 23 27 43 | 20° 5'07 | 29° 7 | 19°42 | 22°51 | 8°45 | 3°35 | 20°39 | 27°14 | 27°36 | 5°58 | 19°53 | 21°12 | 12°14 | 7° 0 | W12 |
| T 13 | 23 31 40 | 21° 3'41 | 14♈14 | 21°32 | 24° 6 | 9°26 | 3°47 | 20°38 | 27°16 | 27°34 | 5°59 | 19°47 | 21° 9 | 12°20 | 7° 6 | T 13 |
| F 14 | 23 35 37 | 22° 2'16 | 29° 0 | 23°22 | 25°21 | 10° 7 | 4° 0 | 20°37 | 27°16 | 27°33 | 6° 0 | 19°43 | 21° 6 | 12°27 | 7°12 | F 14 |
| S 15 | 23 39 33 | 23° 0'53 | 13♉21 | 25°11 | 26°36 | 10°48 | 4°13 | 20°36 | 27°17 | 27°31 | 6° 2 | 19°D41 | 21° 3 | 12°34 | 7°18 | S 15 |
| S 16 | 23 43 30 | 23°59'33 | 27°13 | 26°58 | 27°50 | 11°29 | 4°26 | 20°35 | 27°18 | 27°29 | 6° 3 | 19°41 | 21° 0 | 12°40 | 7°24 | S 16 |
| M17 | 23 47 26 | 24°58'15 | 10♊37 | 28°45 | 29° 5 | 12°10 | 4°39 | 20°35 | 27°19 | 27°28 | 6° 4 | 19°42 | 20°56 | 12°47 | 7°30 | M17 |
| T 18 | 23 51 23 | 25°56'59 | 23°36 | 0♎31 | 0♎20 | 12°51 | 4°52 | 20°34 | 27°20 | 27°26 | 6° 5 | 19°R43 | 20°53 | 12°54 | 7°36 | T 18 |
| W19 | 23 55 19 | 26°55'46 | 6♋13 | 2°16 | 1°35 | 13°32 | 5° 4 | 20°33 | 27°21 | 27°24 | 6° 7 | 19°42 | 20°50 | 13° 0 | 7°42 | W19 |
| T 20 | 23 59 16 | 27°54'35 | 18°34 | 4° 0 | 2°49 | 14°14 | 5°17 | 20°33 | 27°21 | 27°23 | 6° 8 | 19°40 | 20°47 | 13° 7 | 7°48 | T 20 |
| F 21 | 0 3 12 | 28°53'26 | 0♌42 | 5°43 | 4° 4 | 14°55 | 5°30 | 20°33 | 27°22 | 27°21 | 6° 9 | 19°35 | 20°44 | 13°14 | 7°53 | F 21 |
| S 22 | 0 7 9 | 29°52'19 | 12°41 | 7°25 | 5°19 | 15°37 | 5°43 | 20°32 | 27°22 | 27°19 | 6°10 | 19°29 | 20°41 | 13°21 | 7°59 | S 22 |
| S 23 | 0 11 6 | 0♎51'14 | 24°35 | 9° 6 | 6°34 | 16°18 | 5°56 | 20°32 | 27°23 | 27°18 | 6°11 | 19°21 | 20°37 | 13°27 | 8° 5 | S 23 |
| M24 | 0 15 2 | 1°50'12 | 6♍27 | 10°46 | 7°48 | 17° 0 | 6° 9 | 20°D32 | 27°23 | 27°16 | 6°12 | 19°11 | 20°34 | 13°34 | 8°10 | M24 |
| T 25 | 0 18 59 | 2°49'12 | 18°18 | 12°25 | 9° 3 | 17°42 | 6°22 | 20°32 | 27°24 | 27°14 | 6°13 | 19° 2 | 20°31 | 13°41 | 8°16 | T 25 |
| W26 | 0 22 55 | 3°48'13 | 0♎11 | 14° 4 | 10°18 | 18°24 | 6°35 | 20°32 | 27°24 | 27°13 | 6°14 | 18°54 | 20°28 | 13°47 | 8°21 | W26 |
| T 27 | 0 26 52 | 4°47'17 | 12° 8 | 15°41 | 11°33 | 19° 6 | 6°48 | 20°33 | 27°25 | 27°11 | 6°16 | 18°47 | 20°25 | 13°54 | 8°26 | T 27 |
| F 28 | 0 30 48 | 5°46'23 | 24° 9 | 17°18 | 12°48 | 19°48 | 7° 1 | 20°33 | 27°25 | 27° 9 | 6°17 | 18°42 | 20°22 | 14° 1 | 8°32 | F 28 |
| S 29 | 0 34 45 | 6°45'31 | 6♏16 | 18°54 | 14° 3 | 20°30 | 7°14 | 20°33 | 27°25 | 27° 8 | 6°18 | 18°39 | 20°18 | 14° 8 | 8°37 | S 29 |
| S 30 | 0 38 41 | 7♎44'41 | 18♏32 | 20♎29 | 15♎18 | 21♏12 | 7♎27 | 20♑34 | 27♊25 | 27♓ 6 | 6♌19 | 18°D38 | 20♏15 | 14♍14 | 8♌42 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n 4 | 12s19 | 2s 2 | 13n28 | 1n40 | 9n27 | 1n24 | 12s21 | 0s24 | 0n32 | 1n 8 | 22s 2 | 0s12 | 23n36 | 0n 9 | 2s 7 | 1s24 | 24n13 | 5n31 | 17s57 | 18s15 | 2n57 | 12n35 | 6s27 |
| S 2 | 7 42 | 15 31 | 1 1 | 12 51 | 1 43 | 8 59 | 1 25 | 12 35 | 0 25 | 0 27 | 1 8 | 22 3 | 0 12 | 23 36 | 0 9 | 2 8 | 1 24 | 24 12 | 5 31 | 17 56 | 18 14 | 2 55 | 12 33 | 6 28 |
| M 3 | 7 20 | 18 5 | 0n 5 | 12 12 | 1 46 | 8 30 | 1 25 | 12 50 | 0 26 | 0 22 | 1 8 | 22 3 | 0 12 | 23 36 | 0 9 | 2 9 | 1 24 | 24 12 | 5 31 | 17 56 | 18 13 | 2 53 | 12 31 | 6 28 |
| T 4 | 6 58 | 19 50 | 1 11 | 11 32 | 1 47 | 8 2 | 1 25 | 13 4 | 0 26 | 0 17 | 1 8 | 22 3 | 0 12 | 23 36 | 0 9 | 2 9 | 1 24 | 24 12 | 5 31 | 17 56 | 18 12 | 2 51 | 12 29 | 6 28 |
| W 5 | 6 35 | 20 35 | 2 16 | 10 50 | 1 48 | 7 33 | 1 25 | 13 19 | 0 27 | 0 12 | 1 7 | 22 4 | 0 12 | 23 36 | 0 9 | 2 10 | 1 24 | 24 12 | 5 31 | 17 56 | 18 11 | 2 48 | 12 28 | 6 29 |
| T 6 | 6 13 | 20 13 | 3 15 | 10 7 | 1 48 | 7 4 | 1 25 | 13 33 | 0 28 | 0 7 | 1 7 | 22 4 | 0 12 | 23 36 | 0 9 | 2 11 | 1 24 | 24 11 | 5 31 | 17 56 | 18 10 | 2 46 | 12 26 | 6 29 |
| F 7 | 5 50 | 18 38 | 4 6 | 9 23 | 1 47 | 6 35 | 1 25 | 13 47 | 0 28 | 0 2 | 1 7 | 22 4 | 0 12 | 23 36 | 0 9 | 2 11 | 1 24 | 24 11 | 5 31 | 17 55 | 18 10 | 2 44 | 12 24 | 6 29 |
| S 8 | 5 27 | 15 52 | 4 42 | 8 38 | 1 46 | 6 6 | 1 24 | 14 1 | 0 29 | 0s 3 | 1 7 | 22 5 | 0 12 | 23 36 | 0 9 | 2 12 | 1 24 | 24 11 | 5 32 | 17 53 | 18 9 | 2 42 | 12 22 | 6 30 |
| S 9 | 5 5 | 12 0 | 5 2 | 7 52 | 1 44 | 5 36 | 1 24 | 14 15 | 0 30 | 0 8 | 1 7 | 22 5 | 0 12 | 23 36 | 0 9 | 2 13 | 1 24 | 24 11 | 5 32 | 17 51 | 18 8 | 2 39 | 12 20 | 6 30 |
| M10 | 4 42 | 7 18 | 5 1 | 7 6 | 1 42 | 5 6 | 1 24 | 14 29 | 0 30 | 0 14 | 1 7 | 22 5 | 0 12 | 23 36 | 0 9 | 2 13 | 1 24 | 24 11 | 5 32 | 17 49 | 18 7 | 2 37 | 12 18 | 6 30 |
| T 11 | 4 19 | 2 6 | 4 38 | 6 20 | 1 39 | 4 37 | 1 23 | 14 43 | 0 31 | 0 19 | 1 7 | 22 5 | 0 13 | 23 36 | 0 9 | 2 14 | 1 24 | 24 11 | 5 32 | 17 46 | 18 6 | 2 35 | 12 16 | 6 31 |
| W12 | 3 56 | 3n15 | 3 56 | 5 33 | 1 35 | 4 7 | 1 23 | 14 57 | 0 32 | 0 24 | 1 7 | 22 6 | 0 13 | 23 36 | 0 9 | 2 15 | 1 24 | 24 10 | 5 32 | 17 44 | 18 5 | 2 33 | 12 14 | 6 31 |
| T 13 | 3 33 | 8 21 | 2 58 | 4 46 | 1 32 | 3 36 | 1 22 | 15 10 | 0 32 | 0 29 | 1 7 | 22 6 | 0 13 | 23 36 | 0 9 | 2 15 | 1 24 | 24 10 | 5 33 | 17 43 | 18 5 | 2 30 | 12 12 | 6 32 |
| F 14 | 3 10 | 12 50 | 1 48 | 3 59 | 1 27 | 3 6 | 1 22 | 15 24 | 0 33 | 0 34 | 1 7 | 22 6 | 0 13 | 23 36 | 0 9 | 2 16 | 1 24 | 24 10 | 5 33 | 17 41 | 18 4 | 2 28 | 12 10 | 6 32 |
| S 15 | 2 47 | 16 25 | 0 34 | 3 11 | 1 23 | 2 36 | 1 21 | 15 37 | 0 34 | 0 39 | 1 7 | 22 6 | 0 13 | 23 36 | 0 10 | 2 17 | 1 24 | 24 10 | 5 33 | 17 41 | 18 3 | 2 26 | 12 9 | 6 32 |
| S 16 | 2 23 | 18 55 | 0s40 | 2 24 | 1 18 | 2 6 | 1 21 | 15 51 | 0 34 | 0 44 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 17 | 1 24 | 24 10 | 5 33 | 17 41 | 18 2 | 2 24 | 12 7 | 6 33 |
| M17 | 2 0 | 20 16 | 1 50 | 1 37 | 1 13 | 1 35 | 1 20 | 16 4 | 0 35 | 0 49 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 18 | 1 24 | 24 10 | 5 33 | 17 41 | 18 1 | 2 21 | 12 5 | 6 33 |
| T 18 | 1 37 | 20 28 | 2 52 | 0 49 | 1 7 | 1 5 | 1 19 | 16 17 | 0 36 | 0 55 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 19 | 1 24 | 24 9 | 5 33 | 17 41 | 18 0 | 2 19 | 12 3 | 6 34 |
| W19 | 1 13 | 19 37 | 3 43 | 0 2 | 1 2 | 0 34 | 1 18 | 16 30 | 0 36 | 1 0 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 19 | 1 24 | 24 9 | 5 34 | 17 41 | 18 0 | 2 17 | 12 1 | 6 34 |
| T 20 | 0 50 | 17 50 | 4 23 | 0s44 | 0 56 | 0 3 | 1 17 | 16 43 | 0 37 | 1 5 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 20 | 1 24 | 24 9 | 5 34 | 17 41 | 17 59 | 2 15 | 11 59 | 6 35 |
| F 21 | 0 27 | 15 18 | 4 51 | 1 31 | 0 50 | 0s27 | 1 16 | 16 56 | 0 37 | 1 10 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 21 | 1 24 | 24 9 | 5 34 | 17 39 | 17 58 | 2 12 | 11 57 | 6 35 |
| S 22 | 0 3 | 12 9 | 5 5 | 2 17 | 0 43 | 0 58 | 1 15 | 17 9 | 0 38 | 1 15 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 21 | 1 24 | 24 9 | 5 34 | 17 38 | 17 57 | 2 10 | 11 55 | 6 36 |
| S 23 | 0s20 | 8 32 | 5 6 | 3 3 | 0 37 | 1 29 | 1 14 | 17 22 | 0 39 | 1 20 | 1 7 | 22 7 | 0 13 | 23 37 | 0 10 | 2 22 | 1 24 | 24 9 | 5 34 | 17 35 | 17 56 | 2 8 | 11 54 | 6 36 |
| M24 | 0 44 | 4 37 | 4 53 | 3 48 | 0 30 | 1 59 | 1 13 | 17 34 | 0 39 | 1 25 | 1 7 | 22 8 | 0 13 | 23 37 | 0 10 | 2 23 | 1 24 | 24 9 | 5 35 | 17 33 | 17 55 | 2 6 | 11 52 | 6 37 |
| T 25 | 1 7 | 0 31 | 4 28 | 4 33 | 0 23 | 2 30 | 1 11 | 17 46 | 0 40 | 1 31 | 1 7 | 22 8 | 0 13 | 23 37 | 0 10 | 2 23 | 1 24 | 24 9 | 5 35 | 17 30 | 17 54 | 2 3 | 11 50 | 6 37 |
| W26 | 1 31 | 3s37 | 3 52 | 5 18 | 0 17 | 3 1 | 1 10 | 17 59 | 0 40 | 1 36 | 1 7 | 22 8 | 0 13 | 23 37 | 0 10 | 2 24 | 1 24 | 24 9 | 5 35 | 17 28 | 17 54 | 2 1 | 11 48 | 6 38 |
| T 27 | 1 54 | 7 38 | 3 5 | 6 2 | 0 10 | 3 31 | 1 9 | 18 11 | 0 41 | 1 41 | 1 7 | 22 8 | 0 14 | 23 37 | 0 10 | 2 25 | 1 24 | 24 8 | 5 35 | 17 26 | 17 53 | 1 59 | 11 46 | 6 38 |
| F 28 | 2 18 | 11 22 | 2 9 | 6 46 | 0 3 | 4 2 | 1 7 | 18 23 | 0 42 | 1 46 | 1 7 | 22 8 | 0 14 | 23 37 | 0 10 | 2 25 | 1 24 | 24 8 | 5 35 | 17 25 | 17 52 | 1 57 | 11 44 | 6 39 |
| S 29 | 2 41 | 14 41 | 1 7 | 7 29 | 0s 4 | 4 32 | 1 6 | 18 35 | 0 42 | 1 51 | 1 7 | 22 8 | 0 14 | 23 37 | 0 10 | 2 26 | 1 24 | 24 8 | 5 36 | 17 24 | 17 51 | 1 54 | 11 43 | 6 39 |
| S 30 | 3s 5 | 17s23 | 0s 0 | 8s11 | 0s11 | 5s 2 | 1n 4 | 18s47 | 0s43 | 1s56 | 1n 7 | 22s 8 | 0s14 | 23n37 | 0n10 | 2s27 | 1s24 | 24n 8 | 5n36 | 17s24 | 17s50 | 1n52 | 11n41 | 6s40 |

Julian Day Number = 2340755.5, Delta T = 15.52 sec
Ecliptic obliquity = 23°28'38, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'22, Lahiri = 19°37'22Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## OCTOBER 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 0 42 38 | 8♎43'53 | 1♐ 0 | 22♎ 3 | 16♎32 | 21♏54 | 7♎40 | 20♑35 | 27♊25 | 27°R 4 | 6♌19 | 18♏39 | 20♏12 | 14♍21 | 8♌47 | M 1 |
| T 2 | 0 46 34 | 9°43'07 | 13°42 | 23°37 | 17°47 | 22°37 | 7°53 | 20°35 | 27°R25 | 27♓ 3 | 6°20 | 18°40 | 20° 9 | 14°28 | 8°52 | T 2 |
| W 3 | 0 50 31 | 10°42'22 | 26°42 | 25° 9 | 19° 2 | 23°19 | 8° 6 | 20°36 | 27°25 | 27° 1 | 6°21 | 18°42 | 20° 6 | 14°34 | 8°57 | W 3 |
| T 4 | 0 54 28 | 11°41'39 | 10♑ 2 | 26°41 | 20°17 | 24° 2 | 8°19 | 20°37 | 27°25 | 27° 0 | 6°22 | 18°R42 | 20° 2 | 14°41 | 9° 2 | T 4 |
| F 5 | 0 58 24 | 12°40'58 | 23°45 | 28°12 | 21°32 | 24°44 | 8°32 | 20°38 | 27°25 | 26°58 | 6°23 | 18°42 | 19°59 | 14°48 | 9° 6 | F 5 |
| S 6 | 1 2 21 | 13°40'19 | 7♒52 | 29°43 | 22°47 | 25°27 | 8°45 | 20°39 | 27°25 | 26°56 | 6°24 | 18°40 | 19°56 | 14°55 | 9°11 | S 6 |
| S 7 | 1 6 17 | 14°39'42 | 22°22 | 1♏13 | 24° 2 | 26°10 | 8°58 | 20°41 | 27°25 | 26°55 | 6°25 | 18°36 | 19°53 | 15° 1 | 9°16 | S 7 |
| M 8 | 1 10 14 | 15°39'06 | 7♓12 | 2°42 | 25°16 | 26°53 | 9°11 | 20°42 | 27°24 | 26°53 | 6°26 | 18°32 | 19°50 | 15° 8 | 9°20 | M 8 |
| T 9 | 1 14 10 | 16°38'32 | 22°13 | 4°10 | 26°31 | 27°36 | 9°24 | 20°43 | 27°24 | 26°52 | 6°26 | 18°27 | 19°47 | 15°15 | 9°24 | T 9 |
| W10 | 1 18 7 | 17°38'00 | 7♈19 | 5°37 | 27°46 | 28°18 | 9°37 | 20°45 | 27°24 | 26°50 | 6°27 | 18°23 | 19°43 | 15°21 | 9°29 | W10 |
| T 11 | 1 22 3 | 18°37'30 | 22°19 | 7° 4 | 29° 1 | 29° 2 | 9°50 | 20°47 | 27°23 | 26°49 | 6°28 | 18°19 | 19°40 | 15°28 | 9°33 | T 11 |
| F 12 | 1 26 0 | 19°37'02 | 7♉ 5 | 8°30 | 0♏16 | 29°45 | 10° 3 | 20°48 | 27°23 | 26°47 | 6°28 | 18°18 | 19°37 | 15°35 | 9°37 | F 12 |
| S 13 | 1 29 57 | 20°36'36 | 21°29 | 9°55 | 1°31 | 0♐28 | 10°16 | 20°50 | 27°22 | 26°46 | 6°29 | 18°D17 | 19°34 | 15°42 | 9°41 | S 13 |
| S 14 | 1 33 53 | 21°36'12 | 5♊27 | 11°19 | 2°46 | 1°11 | 10°28 | 20°52 | 27°22 | 26°44 | 6°30 | 18°18 | 19°31 | 15°48 | 9°45 | S 14 |
| M15 | 1 37 50 | 22°35'51 | 18°59 | 12°43 | 4° 1 | 1°54 | 10°41 | 20°54 | 27°21 | 26°43 | 6°30 | 18°20 | 19°27 | 15°55 | 9°49 | M15 |
| T 16 | 1 41 46 | 23°35'32 | 2♋ 5 | 14° 5 | 5°16 | 2°38 | 10°54 | 20°56 | 27°20 | 26°41 | 6°31 | 18°21 | 19°24 | 16° 2 | 9°53 | T 16 |
| W17 | 1 45 43 | 24°35'15 | 14°47 | 15°27 | 6°30 | 3°21 | 11° 7 | 20°58 | 27°19 | 26°40 | 6°32 | 18°22 | 19°21 | 16° 8 | 9°57 | W17 |
| T 18 | 1 49 39 | 25°35'01 | 27°11 | 16°47 | 7°45 | 4° 5 | 11°20 | 21° 1 | 27°19 | 26°38 | 6°32 | 18°R23 | 19°18 | 16°15 | 10° 1 | T 18 |
| F 19 | 1 53 36 | 26°34'48 | 9♌20 | 18° 6 | 9° 0 | 4°48 | 11°33 | 21° 3 | 27°18 | 26°37 | 6°33 | 18°22 | 19°15 | 16°22 | 10° 4 | F 19 |
| S 20 | 1 57 32 | 27°34'38 | 21°18 | 19°25 | 10°15 | 5°32 | 11°45 | 21° 6 | 27°17 | 26°36 | 6°33 | 18°20 | 19°12 | 16°28 | 10° 8 | S 20 |
| S 21 | 2 1 29 | 28°34'30 | 3♍11 | 20°42 | 11°30 | 6°16 | 11°58 | 21° 8 | 27°16 | 26°34 | 6°34 | 18°18 | 19° 8 | 16°35 | 10°11 | S 21 |
| M22 | 2 5 26 | 29°34'25 | 15° 1 | 21°57 | 12°45 | 7° 0 | 12°11 | 21°11 | 27°15 | 26°33 | 6°34 | 18°15 | 19° 5 | 16°42 | 10°14 | M22 |
| T 23 | 2 9 22 | 0♏34'21 | 26°54 | 23°12 | 14° 0 | 7°44 | 12°23 | 21°14 | 27°14 | 26°32 | 6°34 | 18°12 | 19° 2 | 16°49 | 10°18 | T 23 |
| W24 | 2 13 19 | 1°34'20 | 8♎51 | 24°24 | 15°15 | 8°28 | 12°36 | 21°17 | 27°13 | 26°30 | 6°35 | 18° 9 | 18°59 | 16°55 | 10°21 | W24 |
| T 25 | 2 17 15 | 2°34'20 | 20°54 | 25°35 | 16°30 | 9°12 | 12°49 | 21°20 | 27°12 | 26°29 | 6°35 | 18° 7 | 18°56 | 17° 2 | 10°24 | T 25 |
| F 26 | 2 21 12 | 3°34'22 | 3♏ 6 | 26°44 | 17°45 | 9°56 | 13° 1 | 21°23 | 27°10 | 26°28 | 6°35 | 18° 6 | 18°53 | 17° 9 | 10°27 | F 26 |
| S 27 | 2 25 8 | 4°34'27 | 15°28 | 27°50 | 19° 0 | 10°40 | 13°14 | 21°26 | 27° 9 | 26°27 | 6°36 | 18°D 5 | 18°49 | 17°15 | 10°30 | S 27 |
| S 28 | 2 29 5 | 5°34'33 | 28° 1 | 28°54 | 20°15 | 11°24 | 13°26 | 21°29 | 27° 8 | 26°25 | 6°36 | 18° 5 | 18°46 | 17°22 | 10°32 | S 28 |
| M29 | 2 33 1 | 6°34'41 | 10♐45 | 29°56 | 21°30 | 12° 9 | 13°39 | 21°32 | 27° 7 | 26°24 | 6°36 | 18° 6 | 18°43 | 17°29 | 10°35 | M29 |
| T 30 | 2 36 58 | 7°34'51 | 23°43 | 0♐54 | 22°44 | 12°53 | 13°51 | 21°36 | 27° 5 | 26°23 | 6°37 | 18° 7 | 18°40 | 17°36 | 10°38 | T 30 |
| W31 | 2 40 55 | 8♏35'02 | 6♑56 | 1♐50 | 23♏59 | 13♐37 | 14♎ 4 | 21♑39 | 27♊ 4 | 26♓22 | 6♌37 | 18♏ 8 | 18♏37 | 17♍42 | 10♌40 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 3s28 | 19s18 | 1n 7 | 8s53 | 0s18 | 5s33 | 1n 3 | 18s58 | 0s43 | 2s 1 | 1n 7 | 22s 8 | 0s14 | 23n37 | 0n10 | 2s27 | 1s24 | 24n 8 | 5n36 | 17s24 | 17s49 | 1n50 | 11n39 | 6s40 |
| T 2 | 3 51 | 20 18 | 2 12 | 9 34 | 0 25 | 6 3 | 1 1 | 19 10 | 0 44 | 2 6 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 28 | 1 24 | 24 8 | 5 36 | 17 24 | 17 49 | 1 48 | 11 37 | 6 41 |
| W 3 | 4 15 | 20 14 | 3 12 | 10 15 | 0 32 | 6 33 | 1 0 | 19 21 | 0 44 | 2 12 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 28 | 1 24 | 24 8 | 5 36 | 17 25 | 17 48 | 1 46 | 11 35 | 6 41 |
| T 4 | 4 38 | 19 3 | 4 4 | 10 55 | 0 39 | 7 3 | 0 58 | 19 32 | 0 45 | 2 17 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 29 | 1 24 | 24 8 | 5 37 | 17 25 | 17 47 | 1 43 | 11 34 | 6 42 |
| F 5 | 5 1 | 16 44 | 4 43 | 11 35 | 0 47 | 7 32 | 0 56 | 19 43 | 0 45 | 2 22 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 30 | 1 24 | 24 8 | 5 37 | 17 25 | 17 46 | 1 41 | 11 32 | 6 42 |
| S 6 | 5 24 | 13 23 | 5 6 | 12 13 | 0 54 | 8 2 | 0 54 | 19 54 | 0 46 | 2 27 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 30 | 1 24 | 24 8 | 5 37 | 17 24 | 17 45 | 1 39 | 11 30 | 6 43 |
| S 7 | 5 47 | 9 10 | 5 11 | 12 52 | 1 0 | 8 31 | 0 52 | 20 5 | 0 46 | 2 32 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 31 | 1 24 | 24 8 | 5 37 | 17 23 | 17 44 | 1 37 | 11 28 | 6 44 |
| M 8 | 6 10 | 4 18 | 4 56 | 13 29 | 1 7 | 9 1 | 0 51 | 20 15 | 0 47 | 2 37 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 32 | 1 24 | 24 8 | 5 37 | 17 22 | 17 43 | 1 34 | 11 27 | 6 44 |
| T 9 | 6 33 | 0n53 | 4 20 | 14 5 | 1 14 | 9 30 | 0 49 | 20 25 | 0 47 | 2 42 | 1 7 | 22 7 | 0 14 | 23 37 | 0 10 | 2 32 | 1 24 | 24 8 | 5 38 | 17 21 | 17 43 | 1 32 | 11 25 | 6 45 |
| W10 | 6 56 | 6 3 | 3 26 | 14 41 | 1 21 | 9 58 | 0 47 | 20 36 | 0 48 | 2 47 | 1 7 | 22 6 | 0 14 | 23 37 | 0 10 | 2 33 | 1 24 | 24 8 | 5 38 | 17 20 | 17 42 | 1 30 | 11 23 | 6 45 |
| T 11 | 7 19 | 10 50 | 2 18 | 15 16 | 1 28 | 10 27 | 0 45 | 20 46 | 0 48 | 2 52 | 1 7 | 22 6 | 0 14 | 23 37 | 0 10 | 2 33 | 1 24 | 24 8 | 5 38 | 17 19 | 17 41 | 1 28 | 11 22 | 6 46 |
| F 12 | 7 41 | 14 52 | 1 1 | 15 51 | 1 34 | 10 55 | 0 42 | 20 55 | 0 49 | 2 57 | 1 7 | 22 6 | 0 14 | 23 37 | 0 10 | 2 34 | 1 24 | 24 8 | 5 38 | 17 18 | 17 40 | 1 26 | 11 20 | 6 46 |
| S 13 | 8 4 | 17 53 | 0s18 | 16 24 | 1 40 | 11 23 | 0 40 | 21 5 | 0 49 | 3 2 | 1 7 | 22 6 | 0 14 | 23 37 | 0 10 | 2 35 | 1 24 | 24 8 | 5 38 | 17 18 | 17 39 | 1 23 | 11 18 | 6 47 |
| S 14 | 8 26 | 19 43 | 1 33 | 16 56 | 1 47 | 11 51 | 0 38 | 21 15 | 0 50 | 3 7 | 1 7 | 22 6 | 0 15 | 23 37 | 0 10 | 2 35 | 1 24 | 24 8 | 5 39 | 17 18 | 17 38 | 1 21 | 11 17 | 6 48 |
| M15 | 8 48 | 20 21 | 2 41 | 17 28 | 1 53 | 12 19 | 0 36 | 21 24 | 0 50 | 3 12 | 1 7 | 22 5 | 0 15 | 23 37 | 0 10 | 2 36 | 1 24 | 24 8 | 5 39 | 17 19 | 17 37 | 1 19 | 11 15 | 6 48 |
| T 16 | 9 10 | 19 50 | 3 38 | 17 59 | 1 59 | 12 46 | 0 34 | 21 33 | 0 51 | 3 17 | 1 7 | 22 5 | 0 15 | 23 37 | 0 10 | 2 36 | 1 24 | 24 8 | 5 39 | 17 19 | 17 36 | 1 17 | 11 13 | 6 49 |
| W17 | 9 32 | 18 18 | 4 23 | 18 28 | 2 4 | 13 13 | 0 32 | 21 42 | 0 51 | 3 22 | 1 7 | 22 5 | 0 15 | 23 37 | 0 10 | 2 37 | 1 24 | 24 8 | 5 39 | 17 19 | 17 36 | 1 14 | 11 12 | 6 50 |
| T 18 | 9 54 | 15 57 | 4 54 | 18 57 | 2 10 | 13 39 | 0 29 | 21 51 | 0 52 | 3 27 | 1 7 | 22 4 | 0 15 | 23 37 | 0 10 | 2 37 | 1 24 | 24 8 | 5 40 | 17 20 | 17 35 | 1 12 | 11 10 | 6 50 |
| F 19 | 10 16 | 12 57 | 5 11 | 19 25 | 2 15 | 14 6 | 0 27 | 21 59 | 0 52 | 3 32 | 1 7 | 22 4 | 0 15 | 23 37 | 0 10 | 2 38 | 1 24 | 24 9 | 5 40 | 17 19 | 17 34 | 1 10 | 11 9 | 6 51 |
| S 20 | 10 38 | 9 27 | 5 15 | 19 51 | 2 20 | 14 32 | 0 25 | 22 8 | 0 53 | 3 37 | 1 7 | 22 4 | 0 15 | 23 37 | 0 10 | 2 38 | 1 24 | 24 9 | 5 40 | 17 19 | 17 33 | 1 8 | 11 7 | 6 52 |
| S 21 | 10 59 | 5 37 | 5 4 | 20 17 | 2 25 | 14 57 | 0 22 | 22 16 | 0 53 | 3 42 | 1 7 | 22 3 | 0 15 | 23 37 | 0 10 | 2 39 | 1 24 | 24 9 | 5 40 | 17 18 | 17 32 | 1 6 | 11 6 | 6 52 |
| M22 | 11 20 | 1 35 | 4 41 | 20 41 | 2 29 | 15 22 | 0 20 | 22 24 | 0 54 | 3 47 | 1 8 | 22 3 | 0 15 | 23 37 | 0 10 | 2 39 | 1 24 | 24 9 | 5 40 | 17 17 | 17 31 | 1 3 | 11 4 | 6 53 |
| T 23 | 11 41 | 2s32 | 4 6 | 21 4 | 2 33 | 15 47 | 0 18 | 22 31 | 0 54 | 3 52 | 1 8 | 22 3 | 0 15 | 23 37 | 0 10 | 2 40 | 1 24 | 24 9 | 5 41 | 17 17 | 17 30 | 1 1 | 11 3 | 6 54 |
| W24 | 12 2 | 6 35 | 3 20 | 21 26 | 2 37 | 16 11 | 0 15 | 22 39 | 0 54 | 3 57 | 1 8 | 22 2 | 0 15 | 23 37 | 0 10 | 2 40 | 1 24 | 24 9 | 5 41 | 17 16 | 17 30 | 0 59 | 11 1 | 6 54 |
| T 25 | 12 23 | 10 24 | 2 25 | 21 47 | 2 40 | 16 35 | 0 13 | 22 46 | 0 55 | 4 2 | 1 8 | 22 2 | 0 15 | 23 37 | 0 10 | 2 41 | 1 24 | 24 9 | 5 41 | 17 15 | 17 29 | 0 57 | 11 0 | 6 55 |
| F 26 | 12 44 | 13 51 | 1 22 | 22 6 | 2 43 | 16 59 | 0 10 | 22 53 | 0 55 | 4 7 | 1 8 | 22 2 | 0 15 | 23 37 | 0 10 | 2 41 | 1 24 | 24 9 | 5 41 | 17 15 | 17 28 | 0 54 | 10 58 | 6 56 |
| S 27 | 13 4 | 16 44 | 0 15 | 22 24 | 2 46 | 17 22 | 0 8 | 23 0 | 0 56 | 4 11 | 1 8 | 22 1 | 0 15 | 23 37 | 0 10 | 2 42 | 1 24 | 24 9 | 5 42 | 17 15 | 17 27 | 0 52 | 10 57 | 6 56 |
| S 28 | 13 24 | 18 52 | 0n55 | 22 40 | 2 48 | 17 45 | 0 5 | 23 7 | 0 56 | 4 16 | 1 8 | 22 1 | 0 15 | 23 37 | 0 10 | 2 42 | 1 24 | 24 10 | 5 42 | 17 15 | 17 26 | 0 50 | 10 56 | 6 57 |
| M29 | 13 44 | 20 4 | 2 2 | 22 55 | 2 49 | 18 7 | 0 3 | 23 13 | 0 56 | 4 21 | 1 8 | 22 0 | 0 15 | 23 37 | 0 10 | 2 43 | 1 24 | 24 10 | 5 42 | 17 15 | 17 25 | 0 48 | 10 54 | 6 58 |
| T 30 | 14 4 | 20 15 | 3 5 | 23 8 | 2 50 | 18 29 | 0 0 | 23 19 | 0 57 | 4 26 | 1 8 | 22 0 | 0 15 | 23 37 | 0 10 | 2 43 | 1 24 | 24 10 | 5 42 | 17 15 | 17 24 | 0 46 | 10 53 | 6 58 |
| W31 | 14s23 | 19s19 | 3n59 | 23s20 | 2s50 | 18s50 | 0s 2 | 23s25 | 0s57 | 4s31 | 1n 8 | 21s59 | 0s15 | 23n37 | 0n10 | 2s44 | 1s24 | 24n10 | 5n43 | 17s15 | 17s23 | 0n43 | 10n52 | 6s59 |

Julian Day Number = 2340785.5, Delta T = 15.49 sec
Ecliptic obliquity = 23°28'38, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'26, Lahiri = 19°37'26Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## NOVEMBER 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 2 44 51 | 9♏35'15 | 20♑23 | 2♐41 | 25♏14 | 14♐22 | 14♎16 | 21♑43 | 27°R 2 | 26°R21 | 6♌37 | 18♏ 9 | 18♏33 | 17♍49 | 10♌42 | T 1 |
| F 2 | 2 48 48 | 10°35'30 | 4♒ 6 | 3°28 | 26°29 | 15° 7 | 14°28 | 21°46 | 27♊ 1 | 26♓20 | 6°37 | 18° 9 | 18°30 | 17°56 | 10°45 | F 2 |
| S 3 | 2 52 44 | 11°35'46 | 18° 5 | 4°10 | 27°44 | 15°51 | 14°41 | 21°50 | 26°59 | 26°19 | 6°37 | 18°R 9 | 18°27 | 18° 2 | 10°47 | S 3 |
| S 4 | 2 56 41 | 12°36'03 | 2♓19 | 4°47 | 28°59 | 16°36 | 14°53 | 21°54 | 26°58 | 26°18 | 6°37 | 18° 9 | 18°24 | 18° 9 | 10°49 | S 4 |
| M 5 | 3 0 37 | 13°36'22 | 16°46 | 5°18 | 0♐14 | 17°21 | 15° 5 | 21°58 | 26°56 | 26°17 | 6°37 | 18° 8 | 18°21 | 18°16 | 10°51 | M 5 |
| T 6 | 3 4 34 | 14°36'42 | 1♈22 | 5°43 | 1°29 | 18° 5 | 15°17 | 22° 2 | 26°54 | 26°16 | 6°R37 | 18° 8 | 18°18 | 18°22 | 10°53 | T 6 |
| W 7 | 3 8 30 | 15°37'03 | 16° 2 | 6° 0 | 2°44 | 18°50 | 15°29 | 22° 6 | 26°53 | 26°15 | 6°37 | 18° 8 | 18°14 | 18°29 | 10°54 | W 7 |
| T 8 | 3 12 27 | 16°37'26 | 0♉39 | 6°10 | 3°59 | 19°35 | 15°41 | 22°10 | 26°51 | 26°14 | 6°37 | 18° 7 | 18°11 | 18°36 | 10°56 | T 8 |
| F 9 | 3 16 24 | 17°37'51 | 15° 8 | 6°R10 | 5°13 | 20°20 | 15°53 | 22°14 | 26°49 | 26°13 | 6°37 | 18° 7 | 18° 8 | 18°43 | 10°58 | F 9 |
| S 10 | 3 20 20 | 18°38'18 | 29°22 | 6° 1 | 6°28 | 21° 5 | 16° 5 | 22°19 | 26°47 | 26°12 | 6°37 | 18° 7 | 18° 5 | 18°49 | 10°59 | S 10 |
| S 11 | 3 24 17 | 19°38'46 | 13♊16 | 5°43 | 7°43 | 21°50 | 16°17 | 22°23 | 26°45 | 26°11 | 6°37 | 18° 7 | 18° 2 | 18°56 | 11° 0 | S 11 |
| M12 | 3 28 13 | 20°39'15 | 26°49 | 5°14 | 8°58 | 22°36 | 16°29 | 22°28 | 26°44 | 26°10 | 6°37 | 18° 7 | 17°59 | 19° 3 | 11° 2 | M12 |
| T 13 | 3 32 10 | 21°39'47 | 9♋58 | 4°35 | 10°13 | 23°21 | 16°41 | 22°32 | 26°42 | 26°10 | 6°37 | 18° 7 | 17°55 | 19° 9 | 11° 3 | T 13 |
| W14 | 3 36 6 | 22°40'20 | 22°45 | 3°45 | 11°28 | 24° 6 | 16°53 | 22°37 | 26°40 | 26° 9 | 6°36 | 18° 6 | 17°52 | 19°16 | 11° 4 | W14 |
| T 15 | 3 40 3 | 23°40'55 | 5♌13 | 2°46 | 12°43 | 24°52 | 17° 4 | 22°41 | 26°38 | 26° 8 | 6°36 | 18° 6 | 17°49 | 19°23 | 11° 5 | T 15 |
| F 16 | 3 43 59 | 24°41'32 | 17°25 | 1°38 | 13°58 | 25°37 | 17°16 | 22°46 | 26°36 | 26° 7 | 6°36 | 18° 5 | 17°46 | 19°30 | 11° 5 | F 16 |
| S 17 | 3 47 56 | 25°42'10 | 29°25 | 0°23 | 15°12 | 26°22 | 17°27 | 22°51 | 26°33 | 26° 7 | 6°36 | 18°D 5 | 17°43 | 19°36 | 11° 6 | S 17 |
| S 18 | 3 51 53 | 26°42'50 | 11♍18 | 29♏ 4 | 16°27 | 27° 8 | 17°39 | 22°56 | 26°31 | 26° 6 | 6°35 | 18° 6 | 17°39 | 19°43 | 11° 7 | S 18 |
| M19 | 3 55 49 | 27°43'32 | 23° 9 | 27°42 | 17°42 | 27°54 | 17°50 | 23° 1 | 26°29 | 26° 5 | 6°35 | 18° 6 | 17°36 | 19°50 | 11° 7 | M19 |
| T 20 | 3 59 46 | 28°44'15 | 5♎ 2 | 26°20 | 18°57 | 28°39 | 18° 2 | 23° 6 | 26°27 | 26° 5 | 6°35 | 18° 7 | 17°33 | 19°56 | 11° 7 | T 20 |
| W21 | 4 3 42 | 29°45'00 | 17° 2 | 25° 2 | 20°12 | 29°25 | 18°13 | 23°11 | 26°25 | 26° 4 | 6°34 | 18° 9 | 17°30 | 20° 3 | 11° 8 | W21 |
| T 22 | 4 7 39 | 0♐45'47 | 29°12 | 23°49 | 21°27 | 0♑11 | 18°24 | 23°16 | 26°23 | 26° 4 | 6°34 | 18°10 | 17°27 | 20°10 | 11° 8 | T 22 |
| F 23 | 4 11 35 | 1°46'35 | 11♏34 | 22°44 | 22°42 | 0°56 | 18°35 | 23°21 | 26°20 | 26° 3 | 6°34 | 18°10 | 17°24 | 20°16 | 11°R 8 | F 23 |
| S 24 | 4 15 32 | 2°47'24 | 24°12 | 21°49 | 23°56 | 1°42 | 18°46 | 23°27 | 26°18 | 26° 3 | 6°33 | 18°R10 | 17°20 | 20°23 | 11° 8 | S 24 |
| S 25 | 4 19 28 | 3°48'14 | 7♐ 4 | 21° 5 | 25°11 | 2°28 | 18°57 | 23°32 | 26°16 | 26° 3 | 6°33 | 18° 9 | 17°17 | 20°30 | 11° 8 | S 25 |
| M26 | 4 23 25 | 4°49'06 | 20°13 | 20°32 | 26°26 | 3°14 | 19° 8 | 23°37 | 26°13 | 26° 2 | 6°32 | 18° 8 | 17°14 | 20°37 | 11° 7 | M26 |
| T 27 | 4 27 22 | 5°49'59 | 3♑36 | 20°10 | 27°41 | 4° 0 | 19°19 | 23°43 | 26°11 | 26° 2 | 6°32 | 18° 6 | 17°11 | 20°43 | 11° 7 | T 27 |
| W28 | 4 31 18 | 6°50'53 | 17°12 | 20°D 0 | 28°56 | 4°46 | 19°29 | 23°49 | 26° 9 | 26° 2 | 6°31 | 18° 3 | 17° 8 | 20°50 | 11° 6 | W28 |
| T 29 | 4 35 15 | 7°51'48 | 1♒ 0 | 20° 1 | 0♑11 | 5°32 | 19°40 | 23°54 | 26° 6 | 26° 1 | 6°30 | 18° 0 | 17° 5 | 20°57 | 11° 6 | T 29 |
| F 30 | 4 39 11 | 8♐52'43 | 14♒56 | 20♏12 | 1♑25 | 6♑18 | 19♎51 | 24♑ 0 | 26♊ 4 | 26♓ 1 | 6♌30 | 17♏58 | 17♏ 1 | 21♍ 3 | 11♌ 5 | F 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14 s42 | 17 s18 | 4n41 | 23 s30 | 2 s49 | 19 s11 | 0 s 5 | 23 s31 | 0 s58 | 4 s35 | 1n 8 | 21 s59 | 0 s15 | 23n37 | 0n10 | 2 s44 | 1 s24 | 24n10 | 5n43 | 17 s16 | 17 s23 | 0n41 | 10n50 | 7 s 0 |
| F 2 | 15 1 | 14 16 | 5 8 | 23 37 | 2 48 | 19 31 | 0 7 | 23 36 | 0 58 | 4 40 | 1 8 | 21 58 | 0 16 | 23 37 | 0 10 | 2 44 | 1 24 | 24 10 | 5 43 | 17 16 | 17 22 | 0 39 | 10 49 | 7 0 |
| S 3 | 15 20 | 10 24 | 5 17 | 23 43 | 2 45 | 19 51 | 0 10 | 23 41 | 0 58 | 4 45 | 1 8 | 21 58 | 0 16 | 23 37 | 0 10 | 2 45 | 1 24 | 24 11 | 5 43 | 17 16 | 17 21 | 0 37 | 10 48 | 7 1 |
| S 4 | 15 39 | 5 52 | 5 8 | 23 47 | 2 42 | 20 10 | 0 12 | 23 46 | 0 59 | 4 49 | 1 8 | 21 57 | 0 16 | 23 37 | 0 10 | 2 45 | 1 24 | 24 11 | 5 43 | 17 16 | 17 20 | 0 35 | 10 47 | 7 2 |
| M 5 | 15 57 | 0 57 | 4 39 | 23 48 | 2 38 | 20 28 | 0 15 | 23 51 | 0 59 | 4 54 | 1 8 | 21 56 | 0 16 | 23 37 | 0 10 | 2 46 | 1 24 | 24 11 | 5 44 | 17 16 | 17 19 | 0 32 | 10 45 | 7 2 |
| T 6 | 16 15 | 4n 5 | 3 51 | 23 47 | 2 32 | 20 46 | 0 17 | 23 56 | 0 59 | 4 59 | 1 9 | 21 56 | 0 16 | 23 37 | 0 10 | 2 46 | 1 24 | 24 11 | 5 44 | 17 15 | 17 18 | 0 30 | 10 44 | 7 3 |
| W 7 | 16 33 | 8 55 | 2 49 | 23 44 | 2 25 | 21 4 | 0 20 | 24 0 | 1 0 | 5 3 | 1 9 | 21 55 | 0 16 | 23 37 | 0 10 | 2 46 | 1 24 | 24 12 | 5 44 | 17 15 | 17 17 | 0 28 | 10 43 | 7 4 |
| T 8 | 16 50 | 13 13 | 1 36 | 23 37 | 2 17 | 21 20 | 0 22 | 24 4 | 1 0 | 5 8 | 1 9 | 21 55 | 0 16 | 23 37 | 0 10 | 2 47 | 1 24 | 24 12 | 5 44 | 17 15 | 17 16 | 0 26 | 10 42 | 7 5 |
| F 9 | 17 7 | 16 40 | 0 17 | 23 28 | 2 8 | 21 37 | 0 25 | 24 8 | 1 0 | 5 12 | 1 9 | 21 54 | 0 16 | 23 37 | 0 10 | 2 47 | 1 23 | 24 12 | 5 45 | 17 15 | 17 15 | 0 24 | 10 41 | 7 5 |
| S 10 | 17 24 | 19 2 | 1 s 2 | 23 15 | 1 56 | 21 52 | 0 27 | 24 11 | 1 1 | 5 17 | 1 9 | 21 53 | 0 16 | 23 37 | 0 10 | 2 47 | 1 23 | 24 12 | 5 45 | 17 15 | 17 15 | 0 21 | 10 40 | 7 6 |
| S 11 | 17 40 | 20 11 | 2 15 | 23 0 | 1 44 | 22 7 | 0 30 | 24 14 | 1 1 | 5 21 | 1 9 | 21 53 | 0 16 | 23 37 | 0 11 | 2 48 | 1 23 | 24 12 | 5 45 | 17 15 | 17 14 | 0 19 | 10 39 | 7 7 |
| M12 | 17 57 | 20 8 | 3 19 | 22 40 | 1 29 | 22 22 | 0 32 | 24 17 | 1 1 | 5 26 | 1 9 | 21 52 | 0 16 | 23 37 | 0 11 | 2 48 | 1 23 | 24 13 | 5 45 | 17 15 | 17 13 | 0 17 | 10 38 | 7 7 |
| T 13 | 18 13 | 18 57 | 4 10 | 22 17 | 1 13 | 22 35 | 0 35 | 24 20 | 1 2 | 5 30 | 1 9 | 21 51 | 0 16 | 23 37 | 0 11 | 2 48 | 1 23 | 24 13 | 5 45 | 17 15 | 17 12 | 0 15 | 10 37 | 7 8 |
| W14 | 18 28 | 16 50 | 4 47 | 21 51 | 0 56 | 22 48 | 0 37 | 24 23 | 1 2 | 5 35 | 1 9 | 21 51 | 0 16 | 23 37 | 0 11 | 2 49 | 1 23 | 24 13 | 5 46 | 17 15 | 17 11 | 0 13 | 10 36 | 7 9 |
| T 15 | 18 43 | 13 59 | 5 9 | 21 21 | 0 37 | 23 1 | 0 40 | 24 25 | 1 2 | 5 39 | 1 9 | 21 50 | 0 16 | 23 37 | 0 11 | 2 49 | 1 23 | 24 14 | 5 46 | 17 15 | 17 10 | 0 10 | 10 35 | 7 10 |
| F 16 | 18 58 | 10 36 | 5 17 | 20 49 | 0 18 | 23 12 | 0 42 | 24 27 | 1 2 | 5 43 | 1 9 | 21 49 | 0 16 | 23 37 | 0 11 | 2 49 | 1 23 | 24 14 | 5 46 | 17 15 | 17 9 | 0 8 | 10 34 | 7 10 |
| S 17 | 19 13 | 6 50 | 5 11 | 20 13 | 0n 3 | 23 23 | 0 44 | 24 28 | 1 3 | 5 48 | 1 10 | 21 48 | 0 16 | 23 37 | 0 11 | 2 49 | 1 23 | 24 14 | 5 46 | 17 15 | 17 8 | 0 6 | 10 33 | 7 11 |
| S 18 | 19 27 | 2 50 | 4 52 | 19 36 | 0 23 | 23 34 | 0 47 | 24 30 | 1 3 | 5 52 | 1 10 | 21 48 | 0 16 | 23 36 | 0 11 | 2 49 | 1 23 | 24 14 | 5 47 | 17 15 | 17 7 | 0 4 | 10 32 | 7 12 |
| M19 | 19 41 | 1 s15 | 4 20 | 18 58 | 0 43 | 23 43 | 0 49 | 24 31 | 1 3 | 5 56 | 1 10 | 21 47 | 0 16 | 23 36 | 0 11 | 2 50 | 1 23 | 24 15 | 5 47 | 17 15 | 17 7 | 0 2 | 10 32 | 7 12 |
| T 20 | 19 55 | 5 19 | 3 37 | 18 21 | 1 3 | 23 52 | 0 51 | 24 32 | 1 3 | 6 0 | 1 10 | 21 46 | 0 16 | 23 36 | 0 11 | 2 50 | 1 23 | 24 15 | 5 47 | 17 15 | 17 6 | 0 s 1 | 10 31 | 7 13 |
| W21 | 20 8 | 9 14 | 2 44 | 17 44 | 1 22 | 24 0 | 0 54 | 24 32 | 1 4 | 6 4 | 1 10 | 21 45 | 0 17 | 23 36 | 0 11 | 2 50 | 1 23 | 24 15 | 5 47 | 17 16 | 17 5 | 0 3 | 10 30 | 7 14 |
| T 22 | 20 21 | 12 49 | 1 43 | 17 10 | 1 38 | 24 8 | 0 56 | 24 33 | 1 4 | 6 9 | 1 10 | 21 44 | 0 17 | 23 36 | 0 11 | 2 50 | 1 23 | 24 16 | 5 47 | 17 16 | 17 4 | 0 5 | 10 29 | 7 15 |
| F 23 | 20 33 | 15 54 | 0 36 | 16 39 | 1 53 | 24 15 | 0 58 | 24 33 | 1 4 | 6 13 | 1 10 | 21 44 | 0 17 | 23 36 | 0 11 | 2 50 | 1 23 | 24 16 | 5 48 | 17 16 | 17 3 | 0 7 | 10 29 | 7 15 |
| S 24 | 20 45 | 18 19 | 0n33 | 16 13 | 2 6 | 24 21 | 1 0 | 24 32 | 1 4 | 6 17 | 1 10 | 21 43 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 16 | 5 48 | 17 16 | 17 2 | 0 9 | 10 28 | 7 16 |
| S 25 | 20 57 | 19 50 | 1 43 | 15 51 | 2 17 | 24 26 | 1 3 | 24 32 | 1 5 | 6 21 | 1 10 | 21 42 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 17 | 5 48 | 17 16 | 17 1 | 0 11 | 10 27 | 7 17 |
| M26 | 21 8 | 20 19 | 2 48 | 15 34 | 2 26 | 24 30 | 1 5 | 24 31 | 1 5 | 6 25 | 1 11 | 21 41 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 17 | 5 48 | 17 15 | 17 0 | 0 14 | 10 27 | 7 17 |
| T 27 | 21 19 | 19 41 | 3 45 | 15 22 | 2 32 | 24 34 | 1 7 | 24 30 | 1 5 | 6 29 | 1 11 | 21 40 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 17 | 5 49 | 17 15 | 16 59 | 0 16 | 10 26 | 7 18 |
| W28 | 21 29 | 17 53 | 4 31 | 15 15 | 2 37 | 24 37 | 1 9 | 24 29 | 1 5 | 6 33 | 1 11 | 21 39 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 18 | 5 49 | 17 14 | 16 59 | 0 18 | 10 26 | 7 19 |
| T 29 | 21 39 | 15 4 | 5 1 | 15 13 | 2 39 | 24 39 | 1 11 | 24 27 | 1 5 | 6 37 | 1 11 | 21 38 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 18 | 5 49 | 17 13 | 16 58 | 0 20 | 10 25 | 7 19 |
| F 30 | 21 s49 | 11 s22 | 5n15 | 15 s15 | 2n40 | 24 s41 | 1 s13 | 24 s25 | 1 s 6 | 6 s40 | 1n11 | 21 s37 | 0 s17 | 23n36 | 0n11 | 2 s51 | 1 s23 | 24n18 | 5n49 | 17 s13 | 16 s57 | 0 s22 | 10n25 | 7 s20 |

Julian Day Number = 2340816.5, Delta T = 15.46 sec
Ecliptic obliquity = 23°28'37, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'30, Lahiri = 19°37'30Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1696
# geocentric

## DECEMBER 1696 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 43 8 | 9♐53'39 | 28♒59 | 20♏32 | 2♑40 | 7♑ 5 | 20♎ 1 | 24♑ 6 | 26°R 1 | 26°R 1 | 6°R29 | 17°R56 | 16♏58 | 21♍10 | 11°R 4 | S 1 |
| S 2 | 4 47 4 | 10°54'36 | 13♓ 7 | 21° 0 | 3°55 | 7°51 | 20°11 | 24°11 | 25♊59 | 26♓ 1 | 6♌29 | 17°D56 | 16°55 | 21°17 | 11♌ 3 | S 2 |
| M 3 | 4 51 1 | 11°55'34 | 27°19 | 21°37 | 5°10 | 8°37 | 20°22 | 24°17 | 25°57 | 26° 1 | 6°28 | 17♏57 | 16°52 | 21°23 | 11° 2 | M 3 |
| T 4 | 4 54 57 | 12°56'32 | 11♈31 | 22°19 | 6°24 | 9°23 | 20°32 | 24°23 | 25°54 | 26° 0 | 6°27 | 17°58 | 16°49 | 21°30 | 11° 1 | T 4 |
| W 5 | 4 58 54 | 13°57'31 | 25°42 | 23° 8 | 7°39 | 10°10 | 20°42 | 24°29 | 25°52 | 26° 0 | 6°26 | 18° 0 | 16°45 | 21°37 | 11° 0 | W 5 |
| T 6 | 5 2 51 | 14°58'30 | 9♉50 | 24° 3 | 8°54 | 10°56 | 20°52 | 24°35 | 25°49 | 26°D 0 | 6°26 | 18° 1 | 16°42 | 21°44 | 10°59 | T 6 |
| F 7 | 5 6 47 | 15°59'30 | 23°51 | 25° 1 | 10° 9 | 11°42 | 21° 2 | 24°41 | 25°47 | 26° 0 | 6°25 | 18°R 1 | 16°39 | 21°50 | 10°57 | F 7 |
| S 8 | 5 10 44 | 17° 0'31 | 7♊42 | 26° 4 | 11°23 | 12°29 | 21°12 | 24°47 | 25°44 | 26° 0 | 6°24 | 17°59 | 16°36 | 21°57 | 10°56 | S 8 |
| S 9 | 5 14 40 | 18° 1'33 | 21°19 | 27°11 | 12°38 | 13°15 | 21°21 | 24°53 | 25°41 | 26° 0 | 6°23 | 17°56 | 16°33 | 22° 4 | 10°54 | S 9 |
| M10 | 5 18 37 | 19° 2'35 | 4♋41 | 28°20 | 13°53 | 14° 2 | 21°31 | 24°59 | 25°39 | 26° 1 | 6°22 | 17°52 | 16°30 | 22°10 | 10°52 | M10 |
| T 11 | 5 22 33 | 20° 3'38 | 17°45 | 29°32 | 15° 7 | 14°49 | 21°40 | 25° 6 | 25°36 | 26° 1 | 6°22 | 17°47 | 16°26 | 22°17 | 10°50 | T 11 |
| W12 | 5 26 30 | 21° 4'42 | 0♌31 | 0♐47 | 16°22 | 15°35 | 21°50 | 25°12 | 25°34 | 26° 1 | 6°21 | 17°41 | 16°23 | 22°24 | 10°48 | W12 |
| T 13 | 5 30 26 | 22° 5'47 | 12°59 | 2° 3 | 17°37 | 16°22 | 21°59 | 25°18 | 25°31 | 26° 1 | 6°20 | 17°35 | 16°20 | 22°30 | 10°46 | T 13 |
| F 14 | 5 34 23 | 23° 6'52 | 25°12 | 3°22 | 18°51 | 17° 9 | 22° 8 | 25°25 | 25°29 | 26° 1 | 6°19 | 17°30 | 16°17 | 22°37 | 10°44 | F 14 |
| S 15 | 5 38 20 | 24° 7'59 | 7♍13 | 4°42 | 20° 6 | 17°55 | 22°17 | 25°31 | 25°26 | 26° 2 | 6°18 | 17°27 | 16°14 | 22°44 | 10°42 | S 15 |
| S 16 | 5 42 16 | 25° 9'05 | 19° 6 | 6° 3 | 21°20 | 18°42 | 22°26 | 25°37 | 25°23 | 26° 2 | 6°17 | 17°25 | 16°11 | 22°50 | 10°40 | S 16 |
| M17 | 5 46 13 | 26°10'13 | 0♎57 | 7°25 | 22°35 | 19°29 | 22°35 | 25°44 | 25°21 | 26° 2 | 6°16 | 17°D25 | 16° 7 | 22°57 | 10°37 | M17 |
| T 18 | 5 50 9 | 27°11'21 | 12°49 | 8°49 | 23°50 | 20°16 | 22°44 | 25°50 | 25°18 | 26° 3 | 6°15 | 17°26 | 16° 4 | 23° 4 | 10°35 | T 18 |
| W19 | 5 54 6 | 28°12'30 | 24°49 | 10°13 | 25° 4 | 21° 3 | 22°52 | 25°57 | 25°16 | 26° 3 | 6°14 | 17°28 | 16° 1 | 23°11 | 10°32 | W19 |
| T 20 | 5 58 2 | 29°13'40 | 7♏ 1 | 11°39 | 26°19 | 21°49 | 23° 1 | 26° 4 | 25°13 | 26° 4 | 6°13 | 17°29 | 15°58 | 23°17 | 10°29 | T 20 |
| F 21 | 6 1 59 | 0♑14'50 | 19°29 | 13° 5 | 27°33 | 22°36 | 23° 9 | 26°10 | 25°11 | 26° 4 | 6°12 | 17°R30 | 15°55 | 23°24 | 10°26 | F 21 |
| S 22 | 6 5 55 | 1°16'01 | 2♐17 | 14°32 | 28°48 | 23°23 | 23°17 | 26°17 | 25° 8 | 26° 5 | 6°11 | 17°29 | 15°51 | 23°31 | 10°24 | S 22 |
| S 23 | 6 9 52 | 2°17'12 | 15°27 | 15°59 | 0♒ 2 | 24°10 | 23°25 | 26°24 | 25° 5 | 26° 5 | 6°10 | 17°25 | 15°48 | 23°37 | 10°21 | S 23 |
| M24 | 6 13 49 | 3°18'24 | 28°57 | 17°27 | 1°17 | 24°57 | 23°33 | 26°30 | 25° 3 | 26° 6 | 6° 8 | 17°20 | 15°45 | 23°44 | 10°18 | M24 |
| T 25 | 6 17 45 | 4°19'35 | 12♑47 | 18°56 | 2°31 | 25°44 | 23°41 | 26°37 | 25° 0 | 26° 6 | 6° 7 | 17°13 | 15°42 | 23°51 | 10°14 | T 25 |
| W26 | 6 21 42 | 5°20'47 | 26°53 | 20°25 | 3°45 | 26°32 | 23°49 | 26°44 | 24°58 | 26° 7 | 6° 6 | 17° 5 | 15°39 | 23°57 | 10°11 | W26 |
| T 27 | 6 25 38 | 6°21'59 | 11♒ 9 | 21°54 | 5° 0 | 27°19 | 23°57 | 26°51 | 24°55 | 26° 8 | 6° 5 | 16°56 | 15°36 | 24° 4 | 10° 8 | T 27 |
| F 28 | 6 29 35 | 7°23'10 | 25°31 | 23°24 | 6°14 | 28° 6 | 24° 4 | 26°58 | 24°53 | 26° 8 | 6° 4 | 16°49 | 15°32 | 24°11 | 10° 5 | F 28 |
| S 29 | 6 33 31 | 8°24'21 | 9♓52 | 24°55 | 7°29 | 28°53 | 24°11 | 27° 4 | 24°50 | 26° 9 | 6° 3 | 16°43 | 15°29 | 24°18 | 10° 1 | S 29 |
| S 30 | 6 37 28 | 9°25'32 | 24° 9 | 26°25 | 8°43 | 29°40 | 24°18 | 27°11 | 24°48 | 26°10 | 6° 1 | 16°40 | 15°26 | 24°24 | 9°58 | S 30 |
| M31 | 6 41 24 | 10♑26'42 | 8♈19 | 27♐57 | 9♒57 | 0♒27 | 24♎25 | 27♑18 | 24♊45 | 26♓11 | 6♌ 0 | 16°D39 | 15♏23 | 24♍31 | 9♌54 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 21s58 | 7s 1 | 5n 9 | 15s20 | 2n40 | 24s42 | 1s15 | 24s23 | 1s 6 | 6s44 | 1n11 | 21s36 | 0s17 | 23n36 | 0n11 | 2s51 | 1s23 | 24n19 | 5n49 | 17s12 | 16s56 | 0s24 | 10n24 | 7s21 |
| S 2 | 22 7 | 2 15 | 4 45 | 15 29 | 2 38 | 24 42 | 1 17 | 24 21 | 1 6 | 6 48 | 1 11 | 21 35 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 19 | 5 50 | 17 12 | 16 55 | 0 27 | 10 24 | 7 22 |
| M 3 | 22 15 | 2n39 | 4 4 | 15 41 | 2 36 | 24 41 | 1 18 | 24 18 | 1 6 | 6 52 | 1 12 | 21 34 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 19 | 5 50 | 17 12 | 16 54 | 0 29 | 10 23 | 7 22 |
| T 4 | 22 23 | 7 26 | 3 7 | 15 56 | 2 32 | 24 39 | 1 20 | 24 15 | 1 6 | 6 55 | 1 12 | 21 33 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 20 | 5 50 | 17 13 | 16 53 | 0 31 | 10 23 | 7 23 |
| W 5 | 22 31 | 11 48 | 2 0 | 16 12 | 2 28 | 24 37 | 1 22 | 24 11 | 1 6 | 6 59 | 1 12 | 21 32 | 0 17 | 23 36 | 0 11 | 2 51 | 1 23 | 24 20 | 5 50 | 17 13 | 16 52 | 0 33 | 10 23 | 7 24 |
| T 6 | 22 38 | 15 30 | 0 45 | 16 30 | 2 23 | 24 34 | 1 24 | 24 8 | 1 7 | 7 3 | 1 12 | 21 31 | 0 17 | 23 35 | 0 11 | 2 51 | 1 23 | 24 21 | 5 50 | 17 13 | 16 51 | 0 35 | 10 22 | 7 24 |
| F 7 | 22 44 | 18 15 | 0s32 | 16 50 | 2 17 | 24 30 | 1 25 | 24 4 | 1 7 | 7 6 | 1 12 | 21 30 | 0 17 | 23 35 | 0 11 | 2 51 | 1 22 | 24 21 | 5 51 | 17 13 | 16 50 | 0 37 | 10 22 | 7 25 |
| S 8 | 22 50 | 19 53 | 1 46 | 17 11 | 2 11 | 24 26 | 1 27 | 24 0 | 1 7 | 7 10 | 1 12 | 21 29 | 0 17 | 23 35 | 0 11 | 2 51 | 1 22 | 24 21 | 5 51 | 17 13 | 16 49 | 0 40 | 10 22 | 7 25 |
| S 9 | 22 56 | 20 20 | 2 52 | 17 32 | 2 4 | 24 20 | 1 28 | 23 56 | 1 7 | 7 13 | 1 12 | 21 28 | 0 18 | 23 35 | 0 11 | 2 51 | 1 22 | 24 22 | 5 51 | 17 12 | 16 49 | 0 42 | 10 22 | 7 26 |
| M10 | 23 1 | 19 36 | 3 48 | 17 55 | 1 58 | 24 14 | 1 30 | 23 51 | 1 7 | 7 17 | 1 13 | 21 27 | 0 18 | 23 35 | 0 11 | 2 51 | 1 22 | 24 22 | 5 51 | 17 11 | 16 48 | 0 44 | 10 22 | 7 27 |
| T 11 | 23 6 | 17 50 | 4 30 | 18 17 | 1 50 | 24 8 | 1 31 | 23 46 | 1 7 | 7 20 | 1 13 | 21 26 | 0 18 | 23 35 | 0 11 | 2 51 | 1 22 | 24 23 | 5 51 | 17 9 | 16 47 | 0 46 | 10 22 | 7 27 |
| W12 | 23 11 | 15 13 | 4 58 | 18 40 | 1 43 | 24 0 | 1 32 | 23 41 | 1 7 | 7 23 | 1 13 | 21 25 | 0 18 | 23 35 | 0 11 | 2 51 | 1 22 | 24 23 | 5 52 | 17 8 | 16 46 | 0 48 | 10 22 | 7 28 |
| T 13 | 23 14 | 11 59 | 5 10 | 19 3 | 1 35 | 23 52 | 1 34 | 23 35 | 1 7 | 7 27 | 1 13 | 21 24 | 0 18 | 23 35 | 0 11 | 2 51 | 1 22 | 24 23 | 5 52 | 17 6 | 16 45 | 0 50 | 10 22 | 7 29 |
| F 14 | 23 18 | 8 17 | 5 9 | 19 25 | 1 28 | 23 43 | 1 35 | 23 29 | 1 7 | 7 30 | 1 13 | 21 23 | 0 18 | 23 35 | 0 11 | 2 50 | 1 22 | 24 24 | 5 52 | 17 5 | 16 44 | 0 53 | 10 21 | 7 29 |
| S 15 | 23 21 | 4 20 | 4 53 | 19 48 | 1 20 | 23 33 | 1 36 | 23 23 | 1 8 | 7 33 | 1 13 | 21 22 | 0 18 | 23 35 | 0 11 | 2 50 | 1 22 | 24 24 | 5 52 | 17 4 | 16 43 | 0 55 | 10 22 | 7 30 |
| S 16 | 23 23 | 0 15 | 4 25 | 20 10 | 1 12 | 23 23 | 1 37 | 23 17 | 1 8 | 7 36 | 1 14 | 21 21 | 0 18 | 23 35 | 0 11 | 2 50 | 1 22 | 24 25 | 5 52 | 17 4 | 16 42 | 0 57 | 10 22 | 7 30 |
| M17 | 23 25 | 3s50 | 3 46 | 20 31 | 1 4 | 23 12 | 1 38 | 23 11 | 1 8 | 7 40 | 1 14 | 21 20 | 0 18 | 23 35 | 0 11 | 2 50 | 1 22 | 24 25 | 5 53 | 17 3 | 16 41 | 0 59 | 10 22 | 7 31 |
| T 18 | 23 27 | 7 47 | 2 57 | 20 53 | 0 57 | 23 0 | 1 39 | 23 4 | 1 8 | 7 43 | 1 14 | 21 18 | 0 18 | 23 35 | 0 11 | 2 50 | 1 22 | 24 26 | 5 53 | 17 4 | 16 40 | 1 1 | 10 22 | 7 31 |
| W19 | 23 28 | 11 29 | 2 0 | 21 13 | 0 49 | 22 47 | 1 40 | 22 57 | 1 8 | 7 46 | 1 14 | 21 17 | 0 18 | 23 35 | 0 11 | 2 50 | 1 22 | 24 26 | 5 53 | 17 4 | 16 39 | 1 3 | 10 22 | 7 32 |
| T 20 | 23 28 | 14 46 | 0 57 | 21 33 | 0 41 | 22 34 | 1 41 | 22 49 | 1 8 | 7 49 | 1 14 | 21 16 | 0 18 | 23 34 | 0 11 | 2 49 | 1 22 | 24 26 | 5 53 | 17 5 | 16 39 | 1 6 | 10 22 | 7 32 |
| F 21 | 23 29 | 17 27 | 0n11 | 21 51 | 0 33 | 22 20 | 1 42 | 22 42 | 1 8 | 7 51 | 1 15 | 21 15 | 0 18 | 23 34 | 0 11 | 2 49 | 1 22 | 24 27 | 5 53 | 17 5 | 16 38 | 1 8 | 10 22 | 7 33 |
| S 22 | 23 28 | 19 21 | 1 19 | 22 9 | 0 25 | 22 6 | 1 42 | 22 34 | 1 8 | 7 54 | 1 15 | 21 14 | 0 18 | 23 34 | 0 11 | 2 49 | 1 22 | 24 27 | 5 53 | 17 4 | 16 37 | 1 10 | 10 23 | 7 34 |
| S 23 | 23 27 | 20 16 | 2 25 | 22 27 | 0 18 | 21 51 | 1 43 | 22 26 | 1 8 | 7 57 | 1 15 | 21 12 | 0 18 | 23 34 | 0 11 | 2 49 | 1 22 | 24 28 | 5 54 | 17 4 | 16 36 | 1 12 | 10 23 | 7 34 |
| M24 | 23 26 | 20 3 | 3 25 | 22 43 | 0 10 | 21 35 | 1 43 | 22 17 | 1 8 | 8 0 | 1 15 | 21 11 | 0 18 | 23 34 | 0 11 | 2 48 | 1 22 | 24 28 | 5 54 | 17 2 | 16 35 | 1 14 | 10 23 | 7 35 |
| T 25 | 23 24 | 18 39 | 4 14 | 22 58 | 0 3 | 21 19 | 1 44 | 22 9 | 1 8 | 8 3 | 1 15 | 21 10 | 0 18 | 23 34 | 0 11 | 2 48 | 1 22 | 24 29 | 5 54 | 17 0 | 16 34 | 1 16 | 10 24 | 7 35 |
| W26 | 23 22 | 16 6 | 4 48 | 23 12 | 0s 5 | 21 2 | 1 44 | 22 0 | 1 8 | 8 5 | 1 15 | 21 9 | 0 19 | 23 34 | 0 11 | 2 48 | 1 22 | 24 29 | 5 54 | 16 58 | 16 33 | 1 18 | 10 24 | 7 35 |
| T 27 | 23 19 | 12 33 | 5 5 | 23 25 | 0 12 | 20 44 | 1 44 | 21 50 | 1 8 | 8 8 | 1 16 | 21 7 | 0 19 | 23 34 | 0 11 | 2 47 | 1 22 | 24 30 | 5 54 | 16 55 | 16 32 | 1 21 | 10 24 | 7 36 |
| F 28 | 23 16 | 8 16 | 5 3 | 23 37 | 0 19 | 20 26 | 1 45 | 21 41 | 1 8 | 8 10 | 1 16 | 21 6 | 0 19 | 23 34 | 0 11 | 2 47 | 1 22 | 24 30 | 5 54 | 16 53 | 16 31 | 1 23 | 10 25 | 7 36 |
| S 29 | 23 13 | 3 31 | 4 42 | 23 48 | 0 26 | 20 7 | 1 45 | 21 31 | 1 8 | 8 13 | 1 16 | 21 5 | 0 19 | 23 34 | 0 11 | 2 47 | 1 22 | 24 30 | 5 54 | 16 52 | 16 30 | 1 25 | 10 25 | 7 37 |
| S 30 | 23 8 | 1n24 | 4 4 | 23 58 | 0 32 | 19 48 | 1 45 | 21 21 | 1 8 | 8 15 | 1 16 | 21 4 | 0 19 | 23 34 | 0 11 | 2 46 | 1 22 | 24 31 | 5 55 | 16 51 | 16 29 | 1 27 | 10 26 | 7 37 |
| M31 | 23s 4 | 6n13 | 3n11 | 24s 7 | 0s39 | 19s28 | 1s45 | 21s11 | 1s 8 | 8s18 | 1n16 | 21s 2 | 0s19 | 23n33 | 0n11 | 2s46 | 1s22 | 24n31 | 5n55 | 16s50 | 16s28 | 1s29 | 10n26 | 7s38 |

Julian Day Number = 2340846.5, Delta T = 15.42 sec
Ecliptic obliquity = 23°28'37, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'34, Lahiri = 19°37'35Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## JANUARY 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 45 21 | 11♉27'53 | 22♈20 | 29♐28 | 11♒11 | 1♒14 | 24♎32 | 27♉25 | 24°R43 | 26♓12 | 5°R59 | 16♏39 | 15♏20 | 24♍38 | 9°R50 | T 1 |
| W 2 | 6 49 18 | 12°29'02 | 6♊12 | 1♉ 0 | 12°26 | 2° 2 | 24°39 | 27°32 | 24♊41 | 26°13 | 5♌58 | 16°40 | 15°17 | 24°44 | 9♌47 | W 2 |
| T 3 | 6 53 14 | 13°30'11 | 19°55 | 2°33 | 13°40 | 2°49 | 24°46 | 27°39 | 24°38 | 26°14 | 5°56 | 16°R41 | 15°13 | 24°51 | 9°43 | T 3 |
| F 4 | 6 57 11 | 14°31'20 | 3♊29 | 4° 6 | 14°54 | 3°36 | 24°52 | 27°46 | 24°36 | 26°15 | 5°55 | 16°39 | 15°10 | 24°58 | 9°39 | F 4 |
| S 5 | 7 1 7 | 15°32'29 | 16°53 | 5°39 | 16° 8 | 4°24 | 24°58 | 27°53 | 24°33 | 26°16 | 5°54 | 16°35 | 15° 7 | 25° 4 | 9°35 | S 5 |
| S 6 | 7 5 4 | 16°33'36 | 0♋ 6 | 7°13 | 17°22 | 5°11 | 25° 4 | 28° 0 | 24°31 | 26°17 | 5°53 | 16°29 | 15° 4 | 25°11 | 9°31 | S 6 |
| M 7 | 7 9 0 | 17°34'44 | 13° 8 | 8°47 | 18°36 | 5°58 | 25°10 | 28° 7 | 24°29 | 26°18 | 5°51 | 16°20 | 15° 1 | 25°18 | 9°27 | M 7 |
| T 8 | 7 12 57 | 18°35'51 | 25°57 | 10°21 | 19°50 | 6°45 | 25°16 | 28°14 | 24°26 | 26°19 | 5°50 | 16° 8 | 14°57 | 25°24 | 9°23 | T 8 |
| W 9 | 7 16 54 | 19°36'58 | 8♌33 | 11°56 | 21° 4 | 7°33 | 25°22 | 28°21 | 24°24 | 26°20 | 5°49 | 15°56 | 14°54 | 25°31 | 9°19 | W 9 |
| T 10 | 7 20 50 | 20°38'04 | 20°55 | 13°32 | 22°18 | 8°20 | 25°27 | 28°28 | 24°22 | 26°21 | 5°47 | 15°44 | 14°51 | 25°38 | 9°15 | T 10 |
| F 11 | 7 24 47 | 21°39'10 | 3♍ 5 | 15° 8 | 23°32 | 9° 8 | 25°33 | 28°35 | 24°20 | 26°22 | 5°46 | 15°33 | 14°48 | 25°45 | 9°10 | F 11 |
| S 12 | 7 28 43 | 22°40'16 | 15° 5 | 16°45 | 24°45 | 9°55 | 25°38 | 28°43 | 24°17 | 26°23 | 5°45 | 15°24 | 14°45 | 25°51 | 9° 6 | S 12 |
| S 13 | 7 32 40 | 23°41'21 | 26°57 | 18°22 | 25°59 | 10°42 | 25°43 | 28°50 | 24°15 | 26°25 | 5°43 | 15°18 | 14°42 | 25°58 | 9° 2 | S 13 |
| M14 | 7 36 36 | 24°42'26 | 8♎46 | 19°59 | 27°13 | 11°30 | 25°48 | 28°57 | 24°13 | 26°26 | 5°42 | 15°15 | 14°38 | 26° 5 | 8°57 | M14 |
| T 15 | 7 40 33 | 25°43'30 | 20°37 | 21°38 | 28°27 | 12°17 | 25°53 | 29° 4 | 24°11 | 26°27 | 5°41 | 15°13 | 14°35 | 26°11 | 8°53 | T 15 |
| W16 | 7 44 29 | 26°44'34 | 2♏34 | 23°16 | 29°40 | 13° 5 | 25°57 | 29°11 | 24° 9 | 26°28 | 5°39 | 15°D13 | 14°32 | 26°18 | 8°49 | W16 |
| T 17 | 7 48 26 | 27°45'38 | 14°44 | 24°56 | 0♓54 | 13°52 | 26° 2 | 29°18 | 24° 7 | 26°30 | 5°38 | 15°R14 | 14°29 | 26°25 | 8°44 | T 17 |
| F 18 | 7 52 22 | 28°46'41 | 27°12 | 26°36 | 2° 7 | 14°39 | 26° 6 | 29°25 | 24° 5 | 26°31 | 5°37 | 15°13 | 14°26 | 26°31 | 8°40 | F 18 |
| S 19 | 7 56 19 | 29°47'44 | 10♐ 2 | 28°16 | 3°21 | 15°27 | 26°10 | 29°32 | 24° 3 | 26°33 | 5°35 | 15°11 | 14°22 | 26°38 | 8°35 | S 19 |
| S 20 | 8 0 16 | 0♒48'46 | 23°17 | 29°58 | 4°34 | 16°14 | 26°14 | 29°40 | 24° 1 | 26°34 | 5°34 | 15° 5 | 14°19 | 26°45 | 8°31 | S 20 |
| M21 | 8 4 12 | 1°49'48 | 7♑ 0 | 1♒39 | 5°48 | 17° 2 | 26°17 | 29°47 | 23°59 | 26°36 | 5°32 | 14°58 | 14°16 | 26°51 | 8°26 | M21 |
| T 22 | 8 8 9 | 2°50'49 | 21° 8 | 3°22 | 7° 1 | 17°49 | 26°21 | 29°54 | 23°57 | 26°37 | 5°31 | 14°47 | 14°13 | 26°58 | 8°22 | T 22 |
| W23 | 8 12 5 | 3°51'49 | 5♒38 | 5° 5 | 8°14 | 18°37 | 26°24 | 0♒ 1 | 23°56 | 26°39 | 5°30 | 14°35 | 14°10 | 27° 5 | 8°17 | W23 |
| T 24 | 8 16 2 | 4°52'47 | 20°22 | 6°49 | 9°28 | 19°24 | 26°27 | 0° 8 | 23°54 | 26°40 | 5°28 | 14°23 | 14° 7 | 27°11 | 8°12 | T 24 |
| F 25 | 8 19 58 | 5°53'45 | 5♓11 | 8°33 | 10°41 | 20°12 | 26°30 | 0°15 | 23°52 | 26°42 | 5°27 | 14°12 | 14° 3 | 27°18 | 8° 8 | F 25 |
| S 26 | 8 23 55 | 6°54'42 | 19°59 | 10°18 | 11°54 | 20°59 | 26°33 | 0°22 | 23°50 | 26°43 | 5°25 | 14° 4 | 14° 0 | 27°25 | 8° 3 | S 26 |
| S 27 | 8 27 52 | 7°55'37 | 4♈36 | 12° 3 | 13° 7 | 21°47 | 26°36 | 0°29 | 23°49 | 26°45 | 5°24 | 13°58 | 13°57 | 27°32 | 7°58 | S 27 |
| M28 | 8 31 48 | 8°56'31 | 18°59 | 13°49 | 14°20 | 22°34 | 26°38 | 0°36 | 23°47 | 26°47 | 5°23 | 13°55 | 13°54 | 27°38 | 7°54 | M28 |
| T 29 | 8 35 45 | 9°57'24 | 3♉ 4 | 15°36 | 15°33 | 23°21 | 26°40 | 0°44 | 23°45 | 26°48 | 5°21 | 13°54 | 13°51 | 27°45 | 7°49 | T 29 |
| W30 | 8 39 41 | 10°58'15 | 16°52 | 17°23 | 16°46 | 24° 9 | 26°43 | 0°51 | 23°44 | 26°50 | 5°20 | 13°54 | 13°48 | 27°52 | 7°45 | W30 |
| T 31 | 8 43 38 | 11♒59'05 | 0♊24 | 19♒10 | 17♓59 | 24♒56 | 26♎44 | 0♒58 | 23♊42 | 26♓52 | 5♌18 | 13♏53 | 13♏44 | 27♍58 | 7♌40 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 22s59 | 10n40 | 2n 7 | 24s14 | 0s45 | 19s 7 | 1s45 | 21s 1 | 1s 8 | 8s20 | 1n17 | 21s 1 | 0s19 | 23n33 | 0n11 | 2s46 | 1s21 | 24n32 | 5n55 | 16s50 | 16s27 | 1s31 | 10n27 | 7s38 |
| W 2 | 22 53 | 14 29 | 0 56 | 24 20 | 0 52 | 18 46 | 1 45 | 20 50 | 1 8 | 8 22 | 1 17 | 21 0 | 0 19 | 23 33 | 0 11 | 2 45 | 1 21 | 24 32 | 5 55 | 16 51 | 16 27 | 1 33 | 10 27 | 7 38 |
| T 3 | 22 47 | 17 28 | 0s17 | 24 25 | 0 58 | 18 25 | 1 44 | 20 39 | 1 8 | 8 25 | 1 17 | 20 58 | 0 19 | 23 33 | 0 11 | 2 45 | 1 21 | 24 33 | 5 55 | 16 51 | 16 26 | 1 36 | 10 28 | 7 39 |
| F 4 | 22 41 | 19 26 | 1 29 | 24 28 | 1 4 | 18 3 | 1 44 | 20 28 | 1 8 | 8 27 | 1 17 | 20 57 | 0 19 | 23 33 | 0 11 | 2 44 | 1 21 | 24 33 | 5 55 | 16 50 | 16 25 | 1 38 | 10 29 | 7 39 |
| S 5 | 22 34 | 20 16 | 2 34 | 24 31 | 1 9 | 17 40 | 1 44 | 20 17 | 1 8 | 8 29 | 1 17 | 20 56 | 0 19 | 23 33 | 0 11 | 2 44 | 1 21 | 24 34 | 5 55 | 16 49 | 16 24 | 1 40 | 10 29 | 7 39 |
| S 6 | 22 27 | 19 58 | 3 30 | 24 31 | 1 15 | 17 17 | 1 43 | 20 6 | 1 7 | 8 31 | 1 18 | 20 54 | 0 19 | 23 33 | 0 11 | 2 44 | 1 21 | 24 34 | 5 56 | 16 47 | 16 23 | 1 42 | 10 30 | 7 40 |
| M 7 | 22 19 | 18 37 | 4 14 | 24 31 | 1 20 | 16 54 | 1 43 | 19 54 | 1 7 | 8 33 | 1 18 | 20 53 | 0 19 | 23 33 | 0 11 | 2 43 | 1 21 | 24 35 | 5 56 | 16 45 | 16 22 | 1 44 | 10 31 | 7 40 |
| T 8 | 22 11 | 16 20 | 4 45 | 24 29 | 1 25 | 16 30 | 1 42 | 19 42 | 1 7 | 8 35 | 1 18 | 20 52 | 0 19 | 23 33 | 0 11 | 2 43 | 1 21 | 24 35 | 5 56 | 16 42 | 16 21 | 1 46 | 10 32 | 7 40 |
| W 9 | 22 2 | 13 19 | 5 0 | 24 26 | 1 30 | 16 6 | 1 41 | 19 30 | 1 7 | 8 37 | 1 18 | 20 50 | 0 19 | 23 33 | 0 11 | 2 42 | 1 21 | 24 35 | 5 56 | 16 38 | 16 20 | 1 48 | 10 32 | 7 41 |
| T 10 | 21 53 | 9 47 | 5 2 | 24 21 | 1 34 | 15 41 | 1 40 | 19 17 | 1 7 | 8 38 | 1 19 | 20 49 | 0 19 | 23 33 | 0 11 | 2 42 | 1 21 | 24 36 | 5 56 | 16 35 | 16 19 | 1 50 | 10 33 | 7 41 |
| F 11 | 21 44 | 5 54 | 4 49 | 24 15 | 1 38 | 15 16 | 1 39 | 19 5 | 1 7 | 8 40 | 1 19 | 20 48 | 0 20 | 23 32 | 0 11 | 2 41 | 1 21 | 24 36 | 5 56 | 16 31 | 16 18 | 1 53 | 10 34 | 7 41 |
| S 12 | 21 34 | 1 50 | 4 24 | 24 7 | 1 42 | 14 50 | 1 39 | 18 52 | 1 7 | 8 42 | 1 19 | 20 46 | 0 20 | 23 32 | 0 11 | 2 41 | 1 21 | 24 37 | 5 56 | 16 29 | 16 17 | 1 55 | 10 35 | 7 41 |
| S 13 | 21 24 | 2s16 | 3 47 | 23 58 | 1 46 | 14 24 | 1 37 | 18 39 | 1 7 | 8 44 | 1 19 | 20 45 | 0 20 | 23 32 | 0 11 | 2 40 | 1 21 | 24 37 | 5 56 | 16 27 | 16 16 | 1 57 | 10 36 | 7 42 |
| M14 | 21 13 | 6 15 | 3 1 | 23 47 | 1 49 | 13 58 | 1 36 | 18 26 | 1 7 | 8 45 | 1 19 | 20 43 | 0 20 | 23 32 | 0 11 | 2 40 | 1 21 | 24 38 | 5 57 | 16 26 | 16 15 | 1 59 | 10 37 | 7 42 |
| T 15 | 21 2 | 10 1 | 2 7 | 23 35 | 1 53 | 13 31 | 1 35 | 18 12 | 1 6 | 8 47 | 1 20 | 20 42 | 0 20 | 23 32 | 0 11 | 2 39 | 1 21 | 24 38 | 5 57 | 16 26 | 16 14 | 2 1 | 10 38 | 7 42 |
| W16 | 20 50 | 13 26 | 1 7 | 23 22 | 1 55 | 13 4 | 1 34 | 17 59 | 1 6 | 8 48 | 1 20 | 20 41 | 0 20 | 23 32 | 0 11 | 2 38 | 1 21 | 24 39 | 5 57 | 16 26 | 16 13 | 2 3 | 10 39 | 7 42 |
| T 17 | 20 39 | 16 20 | 0 3 | 23 6 | 1 58 | 12 37 | 1 32 | 17 45 | 1 6 | 8 49 | 1 20 | 20 39 | 0 20 | 23 32 | 0 11 | 2 38 | 1 21 | 24 39 | 5 57 | 16 26 | 16 13 | 2 5 | 10 40 | 7 42 |
| F 18 | 20 26 | 18 32 | 1n 3 | 22 50 | 2 0 | 12 9 | 1 31 | 17 31 | 1 6 | 8 51 | 1 20 | 20 38 | 0 20 | 23 32 | 0 11 | 2 37 | 1 21 | 24 40 | 5 57 | 16 25 | 16 12 | 2 7 | 10 41 | 7 42 |
| S 19 | 20 14 | 19 53 | 2 8 | 22 31 | 2 2 | 11 41 | 1 29 | 17 17 | 1 6 | 8 52 | 1 21 | 20 36 | 0 20 | 23 32 | 0 11 | 2 37 | 1 21 | 24 40 | 5 57 | 16 25 | 16 11 | 2 9 | 10 42 | 7 42 |
| S 20 | 20 0 | 20 11 | 3 7 | 22 12 | 2 3 | 11 13 | 1 28 | 17 2 | 1 6 | 8 53 | 1 21 | 20 35 | 0 20 | 23 32 | 0 11 | 2 36 | 1 21 | 24 40 | 5 57 | 16 23 | 16 10 | 2 12 | 10 43 | 7 42 |
| M21 | 19 47 | 19 20 | 3 58 | 21 50 | 2 4 | 10 44 | 1 26 | 16 48 | 1 5 | 8 54 | 1 21 | 20 34 | 0 20 | 23 32 | 0 11 | 2 36 | 1 21 | 24 41 | 5 57 | 16 21 | 16 9 | 2 14 | 10 44 | 7 43 |
| T 22 | 19 33 | 17 16 | 4 36 | 21 27 | 2 4 | 10 15 | 1 24 | 16 33 | 1 5 | 8 55 | 1 21 | 20 32 | 0 20 | 23 32 | 0 11 | 2 35 | 1 21 | 24 41 | 5 57 | 16 18 | 16 8 | 2 16 | 10 45 | 7 43 |
| W23 | 19 19 | 14 5 | 4 57 | 21 2 | 2 5 | 9 46 | 1 22 | 16 18 | 1 5 | 8 56 | 1 21 | 20 31 | 0 20 | 23 31 | 0 11 | 2 34 | 1 21 | 24 42 | 5 57 | 16 14 | 16 7 | 2 18 | 10 46 | 7 43 |
| T 24 | 19 5 | 10 0 | 4 59 | 20 36 | 2 4 | 9 17 | 1 20 | 16 3 | 1 5 | 8 57 | 1 22 | 20 29 | 0 20 | 23 31 | 0 11 | 2 34 | 1 21 | 24 42 | 5 57 | 16 11 | 16 6 | 2 20 | 10 47 | 7 43 |
| F 25 | 18 50 | 5 16 | 4 41 | 20 8 | 2 4 | 8 47 | 1 18 | 15 48 | 1 5 | 8 58 | 1 22 | 20 28 | 0 21 | 23 31 | 0 11 | 2 33 | 1 21 | 24 43 | 5 58 | 16 8 | 16 5 | 2 22 | 10 48 | 7 43 |
| S 26 | 18 34 | 0 14 | 4 4 | 19 39 | 2 2 | 8 17 | 1 16 | 15 32 | 1 4 | 8 59 | 1 22 | 20 26 | 0 21 | 23 31 | 0 11 | 2 32 | 1 21 | 24 43 | 5 58 | 16 5 | 16 4 | 2 24 | 10 49 | 7 43 |
| S 27 | 18 19 | 4n46 | 3 12 | 19 8 | 2 1 | 7 47 | 1 14 | 15 17 | 1 4 | 9 0 | 1 22 | 20 25 | 0 21 | 23 31 | 0 11 | 2 32 | 1 21 | 24 43 | 5 58 | 16 3 | 16 3 | 2 26 | 10 51 | 7 43 |
| M28 | 18 3 | 9 25 | 2 8 | 18 36 | 1 59 | 7 17 | 1 12 | 15 1 | 1 4 | 9 0 | 1 23 | 20 23 | 0 21 | 23 31 | 0 11 | 2 31 | 1 21 | 24 44 | 5 58 | 16 2 | 16 2 | 2 28 | 10 52 | 7 43 |
| T 29 | 17 47 | 13 27 | 0 57 | 18 2 | 1 56 | 6 46 | 1 10 | 14 45 | 1 4 | 9 1 | 1 23 | 20 22 | 0 21 | 23 31 | 0 11 | 2 30 | 1 21 | 24 44 | 5 58 | 16 2 | 16 1 | 2 31 | 10 53 | 7 43 |
| W30 | 17 30 | 16 39 | 0s16 | 17 26 | 1 53 | 6 16 | 1 7 | 14 29 | 1 3 | 9 1 | 1 23 | 20 20 | 0 21 | 23 31 | 0 11 | 2 30 | 1 21 | 24 45 | 5 58 | 16 2 | 16 0 | 2 33 | 10 54 | 7 42 |
| T 31 | 17s13 | 18n52 | 1s26 | 16s49 | 1s49 | 5s45 | 1s 5 | 14s13 | 1s 3 | 9s 2 | 1n23 | 20s19 | 0s21 | 23n31 | 0n11 | 2s29 | 1s20 | 24n45 | 5n58 | 16s 2 | 15s59 | 2s35 | 10n55 | 7s42 |

Julian Day Number = 2340877.5, Delta T = 15.39 sec
Ecliptic obliquity = 23°28'36, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'38, Lahiri = 19°37'39Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## FEBRUARY 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 8 47 34 | 12♒59'53 | 13♊40 | 20♒58 | 19♓11 | 25♒44 | 26♎46 | 1♒ 5 | 23°R41 | 26♓53 | 5°R17 | 13°R51 | 13♏41 | 28♍ 5 | 7°R35 | F 1 |
| S 2 | 8 51 31 | 14° 0'40 | 26°43 | 22°46 | 20°24 | 26°31 | 26°48 | 1°12 | 23♊40 | 26°55 | 5♌16 | 13♏46 | 13°38 | 28°12 | 7♌31 | S 2 |
| S 3 | 8 55 27 | 15° 1'25 | 9♋35 | 24°34 | 21°36 | 27°19 | 26°49 | 1°19 | 23°38 | 26°57 | 5°14 | 13°38 | 13°35 | 28°18 | 7°26 | S 3 |
| M 4 | 8 59 24 | 16° 2'09 | 22°16 | 26°21 | 22°49 | 28° 6 | 26°50 | 1°26 | 23°37 | 26°59 | 5°13 | 13°27 | 13°32 | 28°25 | 7°22 | M 4 |
| T 5 | 9 3 21 | 17° 2'51 | 4♌47 | 28° 9 | 24° 1 | 28°54 | 26°51 | 1°33 | 23°36 | 27° 1 | 5°12 | 13°14 | 13°28 | 28°32 | 7°17 | T 5 |
| W 6 | 9 7 17 | 18° 3'32 | 17° 9 | 29°56 | 25°14 | 29°41 | 26°52 | 1°40 | 23°35 | 27° 2 | 5°10 | 12°59 | 13°25 | 28°38 | 7°13 | W 6 |
| T 7 | 9 11 14 | 19° 4'12 | 29°21 | 1♓42 | 26°26 | 0♓28 | 26°52 | 1°47 | 23°33 | 27° 4 | 5° 9 | 12°45 | 13°22 | 28°45 | 7° 8 | T 7 |
| F 8 | 9 15 10 | 20° 4'50 | 11♍24 | 3°27 | 27°38 | 1°16 | 26°53 | 1°53 | 23°32 | 27° 6 | 5° 8 | 12°32 | 13°19 | 28°52 | 7° 4 | F 8 |
| S 9 | 9 19 7 | 21° 5'26 | 23°19 | 5°10 | 28°50 | 2° 3 | 26°53 | 2° 0 | 23°31 | 27° 8 | 5° 6 | 12°21 | 13°16 | 28°58 | 6°59 | S 9 |
| S 10 | 9 23 3 | 22° 6'02 | 5♎ 9 | 6°52 | 0♈ 2 | 2°50 | 26°R53 | 2° 7 | 23°30 | 27°10 | 5° 5 | 12°13 | 13°13 | 29° 5 | 6°55 | S 10 |
| M11 | 9 27 0 | 23° 6'36 | 16°57 | 8°31 | 1°14 | 3°38 | 26°53 | 2°14 | 23°29 | 27°12 | 5° 4 | 12° 8 | 13° 9 | 29°12 | 6°50 | M11 |
| T 12 | 9 30 56 | 24° 7'09 | 28°47 | 10° 8 | 2°25 | 4°25 | 26°52 | 2°21 | 23°28 | 27°14 | 5° 2 | 12° 5 | 13° 6 | 29°18 | 6°46 | T 12 |
| W13 | 9 34 53 | 25° 7'40 | 10♏42 | 11°41 | 3°37 | 5°12 | 26°52 | 2°28 | 23°27 | 27°16 | 5° 1 | 12°D 4 | 13° 3 | 29°25 | 6°42 | W13 |
| T 14 | 9 38 49 | 26° 8'10 | 22°49 | 13°10 | 4°49 | 6° 0 | 26°51 | 2°34 | 23°27 | 27°18 | 5° 0 | 12°R 4 | 13° 0 | 29°32 | 6°37 | T 14 |
| F 15 | 9 42 46 | 27° 8'39 | 5♐13 | 14°35 | 6° 0 | 6°47 | 26°50 | 2°41 | 23°26 | 27°20 | 4°58 | 12° 4 | 12°57 | 29°39 | 6°33 | F 15 |
| S 16 | 9 46 43 | 28° 9'07 | 17°59 | 15°54 | 7°11 | 7°34 | 26°49 | 2°48 | 23°25 | 27°22 | 4°57 | 12° 3 | 12°54 | 29°45 | 6°29 | S 16 |
| S 17 | 9 50 39 | 29° 9'33 | 1♑11 | 17° 7 | 8°23 | 8°21 | 26°48 | 2°54 | 23°24 | 27°24 | 4°56 | 11°59 | 12°50 | 29°52 | 6°25 | S 17 |
| M18 | 9 54 36 | 0♓ 9'58 | 14°53 | 18°14 | 9°34 | 9° 9 | 26°46 | 3° 1 | 23°24 | 27°26 | 4°55 | 11°52 | 12°47 | 29°59 | 6°21 | M18 |
| T 19 | 9 58 32 | 1°10'22 | 29° 4 | 19°14 | 10°45 | 9°56 | 26°45 | 3° 8 | 23°23 | 27°28 | 4°53 | 11°43 | 12°44 | 0♎ 5 | 6°17 | T 19 |
| W20 | 10 2 29 | 2°10'44 | 13♒42 | 20° 6 | 11°56 | 10°43 | 26°43 | 3°14 | 23°23 | 27°30 | 4°52 | 11°33 | 12°41 | 0°12 | 6°13 | W20 |
| T 21 | 10 6 25 | 3°11'04 | 28°40 | 20°49 | 13° 7 | 11°30 | 26°41 | 3°21 | 23°22 | 27°32 | 4°51 | 11°22 | 12°38 | 0°19 | 6° 9 | T 21 |
| F 22 | 10 10 22 | 4°11'23 | 13♓49 | 21°24 | 14°17 | 12°17 | 26°38 | 3°27 | 23°22 | 27°34 | 4°50 | 11°12 | 12°34 | 0°25 | 6° 5 | F 22 |
| S 23 | 10 14 18 | 5°11'39 | 28°59 | 21°50 | 15°28 | 13° 4 | 26°36 | 3°34 | 23°22 | 27°37 | 4°49 | 11° 4 | 12°31 | 0°32 | 6° 2 | S 23 |
| S 24 | 10 18 15 | 6°11'54 | 13♈59 | 22° 6 | 16°39 | 13°52 | 26°33 | 3°40 | 23°21 | 27°39 | 4°47 | 10°59 | 12°28 | 0°39 | 5°58 | S 24 |
| M25 | 10 22 12 | 7°12'07 | 28°41 | 22°R12 | 17°49 | 14°39 | 26°31 | 3°46 | 23°21 | 27°41 | 4°46 | 10°56 | 12°25 | 0°45 | 5°54 | M25 |
| T 26 | 10 26 8 | 8°12'17 | 13♉ 2 | 22° 9 | 18°59 | 15°26 | 26°28 | 3°53 | 23°21 | 27°43 | 4°45 | 10°D56 | 12°22 | 0°52 | 5°51 | T 26 |
| W27 | 10 30 5 | 9°12'26 | 26°59 | 21°57 | 20° 9 | 16°13 | 26°24 | 3°59 | 23°21 | 27°45 | 4°44 | 10°56 | 12°19 | 0°59 | 5°47 | W27 |
| T 28 | 10 34 1 | 10♓12'32 | 10♊33 | 21♓36 | 21♈19 | 17♓ 0 | 26♎21 | 4♒ 5 | 23♊21 | 27♓47 | 4♌43 | 10°R57 | 12♏15 | 1♎ 5 | 5♌44 | T 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 16s56 | 19n59 | 2s30 | 16s10 | 1s44 | 5s14 | 1s 2 | 13s57 | 1s 3 | 9s 2 | 1n24 | 20s18 | 0s21 | 23n31 | 0n11 | 2s28 | 1s20 | 24n45 | 5n58 | 16s 1 | 15s58 | 2s37 | 10n57 | 7s42 |
| S 2 | 16 39 | 20 1 | 3 25 | 15 31 | 1 39 | 4 43 | 0 59 | 13 41 | 1 3 | 9 3 | 1 24 | 20 16 | 0 21 | 23 31 | 0 11 | 2 27 | 1 20 | 24 46 | 5 58 | 16 0 | 15 57 | 2 39 | 10 58 | 7 42 |
| S 3 | 16 21 | 18 59 | 4 9 | 14 49 | 1 33 | 4 12 | 0 57 | 13 24 | 1 2 | 9 3 | 1 24 | 20 15 | 0 21 | 23 31 | 0 11 | 2 27 | 1 20 | 24 46 | 5 58 | 15 57 | 15 56 | 2 41 | 10 59 | 7 42 |
| M 4 | 16 3 | 17 2 | 4 40 | 14 7 | 1 27 | 3 41 | 0 54 | 13 7 | 1 2 | 9 3 | 1 24 | 20 13 | 0 21 | 23 31 | 0 11 | 2 26 | 1 20 | 24 47 | 5 58 | 15 54 | 15 55 | 2 43 | 11 1 | 7 42 |
| T 5 | 15 45 | 14 18 | 4 56 | 13 23 | 1 20 | 3 10 | 0 51 | 12 51 | 1 2 | 9 3 | 1 25 | 20 12 | 0 21 | 23 31 | 0 11 | 2 25 | 1 20 | 24 47 | 5 58 | 15 50 | 15 54 | 2 45 | 11 2 | 7 42 |
| W 6 | 15 27 | 10 58 | 4 59 | 12 38 | 1 12 | 2 38 | 0 48 | 12 34 | 1 2 | 9 3 | 1 25 | 20 10 | 0 21 | 23 30 | 0 11 | 2 24 | 1 20 | 24 47 | 5 58 | 15 46 | 15 54 | 2 47 | 11 3 | 7 41 |
| T 7 | 15 8 | 7 14 | 4 47 | 11 53 | 1 4 | 2 7 | 0 45 | 12 17 | 1 1 | 9 3 | 1 25 | 20 9 | 0 22 | 23 30 | 0 11 | 2 24 | 1 20 | 24 48 | 5 58 | 15 41 | 15 53 | 2 49 | 11 4 | 7 41 |
| F 8 | 14 49 | 3 15 | 4 23 | 11 6 | 0 54 | 1 35 | 0 42 | 12 0 | 1 1 | 9 3 | 1 25 | 20 7 | 0 22 | 23 30 | 0 11 | 2 23 | 1 20 | 24 48 | 5 58 | 15 37 | 15 52 | 2 51 | 11 6 | 7 41 |
| S 9 | 14 29 | 0s50 | 3 48 | 10 19 | 0 45 | 1 4 | 0 39 | 11 42 | 1 1 | 9 3 | 1 25 | 20 6 | 0 22 | 23 30 | 0 11 | 2 22 | 1 20 | 24 48 | 5 58 | 15 34 | 15 51 | 2 53 | 11 7 | 7 41 |
| S 10 | 14 10 | 4 50 | 3 2 | 9 32 | 0 34 | 0 32 | 0 36 | 11 25 | 1 0 | 9 3 | 1 26 | 20 4 | 0 22 | 23 30 | 0 11 | 2 21 | 1 20 | 24 49 | 5 58 | 15 31 | 15 50 | 2 56 | 11 8 | 7 40 |
| M11 | 13 50 | 8 39 | 2 9 | 8 44 | 0 23 | 0 1 | 0 33 | 11 7 | 1 0 | 9 2 | 1 26 | 20 3 | 0 22 | 23 30 | 0 11 | 2 21 | 1 20 | 24 49 | 5 58 | 15 30 | 15 49 | 2 58 | 11 10 | 7 40 |
| T 12 | 13 30 | 12 9 | 1 10 | 7 57 | 0 11 | 0n31 | 0 29 | 10 50 | 1 0 | 9 2 | 1 26 | 20 1 | 0 22 | 23 30 | 0 11 | 2 20 | 1 20 | 24 50 | 5 58 | 15 29 | 15 48 | 3 0 | 11 11 | 7 40 |
| W13 | 13 10 | 15 10 | 0 7 | 7 10 | 0n 2 | 1 2 | 0 26 | 10 32 | 0 59 | 9 2 | 1 26 | 20 0 | 0 22 | 23 30 | 0 11 | 2 19 | 1 20 | 24 50 | 5 58 | 15 29 | 15 47 | 3 2 | 11 12 | 7 39 |
| T 14 | 12 50 | 17 35 | 0n57 | 6 23 | 0 15 | 1 34 | 0 23 | 10 14 | 0 59 | 9 1 | 1 27 | 19 59 | 0 22 | 23 30 | 0 11 | 2 18 | 1 20 | 24 50 | 5 58 | 15 29 | 15 46 | 3 4 | 11 14 | 7 39 |
| F 15 | 12 29 | 19 14 | 2 0 | 5 38 | 0 29 | 2 6 | 0 19 | 9 57 | 0 59 | 9 1 | 1 27 | 19 57 | 0 22 | 23 30 | 0 11 | 2 17 | 1 20 | 24 51 | 5 58 | 15 29 | 15 45 | 3 6 | 11 15 | 7 39 |
| S 16 | 12 8 | 19 58 | 2 58 | 4 54 | 0 43 | 2 37 | 0 16 | 9 39 | 0 58 | 9 0 | 1 27 | 19 56 | 0 22 | 23 30 | 0 11 | 2 16 | 1 20 | 24 51 | 5 58 | 15 28 | 15 44 | 3 8 | 11 16 | 7 38 |
| S 17 | 11 47 | 19 39 | 3 50 | 4 12 | 0 58 | 3 8 | 0 12 | 9 21 | 0 58 | 8 59 | 1 27 | 19 54 | 0 22 | 23 30 | 0 11 | 2 16 | 1 20 | 24 51 | 5 58 | 15 27 | 15 43 | 3 10 | 11 18 | 7 38 |
| M18 | 11 26 | 18 10 | 4 30 | 3 33 | 1 13 | 3 40 | 0 9 | 9 3 | 0 58 | 8 59 | 1 28 | 19 53 | 0 23 | 23 30 | 0 11 | 2 15 | 1 20 | 24 52 | 5 58 | 15 25 | 15 42 | 3 12 | 11 19 | 7 38 |
| T 19 | 11 4 | 15 34 | 4 55 | 2 55 | 1 28 | 4 11 | 0 5 | 8 44 | 0 57 | 8 58 | 1 28 | 19 51 | 0 23 | 23 30 | 0 11 | 2 14 | 1 20 | 24 52 | 5 58 | 15 23 | 15 41 | 3 14 | 11 21 | 7 37 |
| W20 | 10 43 | 11 55 | 5 2 | 2 21 | 1 43 | 4 42 | 0 1 | 8 26 | 0 57 | 8 57 | 1 28 | 19 50 | 0 23 | 23 30 | 0 11 | 2 13 | 1 20 | 24 52 | 5 58 | 15 19 | 15 40 | 3 16 | 11 22 | 7 37 |
| T 21 | 10 21 | 7 26 | 4 49 | 1 50 | 1 58 | 5 13 | 0n 3 | 8 8 | 0 56 | 8 56 | 1 28 | 19 48 | 0 23 | 23 30 | 0 11 | 2 12 | 1 20 | 24 52 | 5 58 | 15 16 | 15 39 | 3 18 | 11 23 | 7 36 |
| F 22 | 9 59 | 2 27 | 4 15 | 1 23 | 2 12 | 5 44 | 0 6 | 7 49 | 0 56 | 8 55 | 1 28 | 19 47 | 0 23 | 23 30 | 0 11 | 2 11 | 1 20 | 24 53 | 5 58 | 15 13 | 15 38 | 3 20 | 11 25 | 7 36 |
| S 23 | 9 37 | 2n43 | 3 24 | 1 0 | 2 26 | 6 15 | 0 10 | 7 31 | 0 56 | 8 54 | 1 29 | 19 46 | 0 23 | 23 30 | 0 11 | 2 11 | 1 20 | 24 53 | 5 58 | 15 10 | 15 37 | 3 22 | 11 26 | 7 35 |
| S 24 | 9 15 | 7 39 | 2 18 | 0 42 | 2 40 | 6 46 | 0 14 | 7 12 | 0 55 | 8 53 | 1 29 | 19 44 | 0 23 | 23 30 | 0 11 | 2 10 | 1 20 | 24 53 | 5 58 | 15 9 | 15 36 | 3 24 | 11 27 | 7 35 |
| M25 | 8 53 | 12 2 | 1 5 | 0 27 | 2 53 | 7 17 | 0 18 | 6 54 | 0 55 | 8 51 | 1 29 | 19 43 | 0 23 | 23 30 | 0 11 | 2 9 | 1 20 | 24 54 | 5 58 | 15 8 | 15 35 | 3 27 | 11 29 | 7 34 |
| T 26 | 8 30 | 15 36 | 0s11 | 0 18 | 3 4 | 7 47 | 0 22 | 6 35 | 0 54 | 8 50 | 1 29 | 19 41 | 0 23 | 23 30 | 0 11 | 2 8 | 1 20 | 24 54 | 5 58 | 15 8 | 15 34 | 3 29 | 11 30 | 7 34 |
| W27 | 8 8 | 18 8 | 1 25 | 0 13 | 3 14 | 8 17 | 0 26 | 6 17 | 0 54 | 8 49 | 1 29 | 19 40 | 0 23 | 23 30 | 0 11 | 2 7 | 1 20 | 24 54 | 5 58 | 15 8 | 15 33 | 3 31 | 11 31 | 7 33 |
| T 28 | 7s45 | 19n34 | 2s31 | 0s13 | 3n23 | 8n47 | 0n30 | 5s58 | 0s54 | 8s48 | 1n30 | 19s39 | 0s23 | 23n30 | 0n11 | 2s 6 | 1s20 | 24n54 | 5n58 | 15s 8 | 15s32 | 3s33 | 11n33 | 7s33 |

Julian Day Number = 2340908.5, Delta T = 15.36 sec
Ecliptic obliquity = 23°28'36, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'43, Lahiri = 19°37'43Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## MARCH 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 10 37 58 | 11♓12'37 | 23♊45 | 21°R 7 | 22♈29 | 17♓47 | 26°R18 | 4♒11 | 23°D21 | 27♓50 | 4°R42 | 10°R56 | 12♏12 | 1♎12 | 5°R40 | F 1 |
| S 2 | 10 41 54 | 12°12'39 | 6♋40 | 20♓30 | 23°39 | 18°34 | 26♎14 | 4°18 | 23♊21 | 27°52 | 4♌41 | 10♏53 | 12° 9 | 1°19 | 5♌37 | S 2 |
| S 3 | 10 45 51 | 13°12'39 | 19°19 | 19°46 | 24°48 | 19°21 | 26°10 | 4°24 | 23°21 | 27°54 | 4°40 | 10°48 | 12° 6 | 1°25 | 5°34 | S 3 |
| M 4 | 10 49 47 | 14°12'37 | 1♌45 | 18°57 | 25°58 | 20° 7 | 26° 6 | 4°30 | 23°21 | 27°56 | 4°39 | 10°40 | 12° 3 | 1°32 | 5°31 | M 4 |
| T 5 | 10 53 44 | 15°12'32 | 14° 1 | 18° 3 | 27° 7 | 20°54 | 26° 2 | 4°36 | 23°21 | 27°58 | 4°38 | 10°30 | 12° 0 | 1°39 | 5°28 | T 5 |
| W 6 | 10 57 41 | 16°12'26 | 26° 9 | 17° 7 | 28°16 | 21°41 | 25°57 | 4°42 | 23°21 | 28° 1 | 4°37 | 10°20 | 11°56 | 1°45 | 5°25 | W 6 |
| T 7 | 11 1 37 | 17°12'18 | 8♍10 | 16° 8 | 29°25 | 22°28 | 25°53 | 4°48 | 23°22 | 28° 3 | 4°36 | 10° 9 | 11°53 | 1°52 | 5°22 | T 7 |
| F 8 | 11 5 34 | 18°12'07 | 20° 6 | 15°10 | 0♉34 | 23°15 | 25°48 | 4°53 | 23°22 | 28° 5 | 4°35 | 10° 0 | 11°50 | 1°59 | 5°19 | F 8 |
| S 9 | 11 9 30 | 19°11'55 | 1♎57 | 14°12 | 1°42 | 24° 1 | 25°44 | 4°59 | 23°22 | 28° 7 | 4°34 | 9°52 | 11°47 | 2° 5 | 5°17 | S 9 |
| S 10 | 11 13 27 | 20°11'40 | 13°46 | 13°16 | 2°51 | 24°48 | 25°39 | 5° 5 | 23°23 | 28°10 | 4°33 | 9°46 | 11°44 | 2°12 | 5°14 | S 10 |
| M11 | 11 17 23 | 21°11'24 | 25°35 | 12°24 | 3°59 | 25°35 | 25°33 | 5°11 | 23°23 | 28°12 | 4°32 | 9°42 | 11°40 | 2°19 | 5°11 | M11 |
| T 12 | 11 21 20 | 22°11'06 | 7♏26 | 11°35 | 5° 7 | 26°21 | 25°28 | 5°16 | 23°24 | 28°14 | 4°31 | 9°D41 | 11°37 | 2°25 | 5° 9 | T 12 |
| W13 | 11 25 16 | 23°10'46 | 19°24 | 10°52 | 6°15 | 27° 8 | 25°23 | 5°22 | 23°25 | 28°16 | 4°30 | 9°42 | 11°34 | 2°32 | 5° 7 | W13 |
| T 14 | 11 29 13 | 24°10'24 | 1♐32 | 10°13 | 7°23 | 27°55 | 25°17 | 5°27 | 23°25 | 28°19 | 4°29 | 9°43 | 11°31 | 2°39 | 5° 5 | T 14 |
| F 15 | 11 33 10 | 25°10'01 | 13°55 | 9°41 | 8°30 | 28°41 | 25°12 | 5°33 | 23°26 | 28°21 | 4°29 | 9°44 | 11°28 | 2°46 | 5° 2 | F 15 |
| S 16 | 11 37 6 | 26° 9'36 | 26°38 | 9°14 | 9°37 | 29°28 | 25° 6 | 5°38 | 23°27 | 28°23 | 4°28 | 9°R45 | 11°25 | 2°52 | 5° 0 | S 16 |
| S 17 | 11 41 3 | 27° 9'09 | 9♑45 | 8°53 | 10°45 | 0♈14 | 25° 0 | 5°44 | 23°28 | 28°25 | 4°27 | 9°44 | 11°21 | 2°59 | 4°58 | S 17 |
| M18 | 11 44 59 | 28° 8'40 | 23°19 | 8°39 | 11°51 | 1° 0 | 24°54 | 5°49 | 23°29 | 28°28 | 4°26 | 9°41 | 11°18 | 3° 6 | 4°57 | M18 |
| T 19 | 11 48 56 | 29° 8'10 | 7♒21 | 8°30 | 12°58 | 1°47 | 24°48 | 5°54 | 23°29 | 28°30 | 4°26 | 9°37 | 11°15 | 3°12 | 4°55 | T 19 |
| W20 | 11 52 52 | 0♈ 7'38 | 21°52 | 8°D28 | 14° 5 | 2°33 | 24°41 | 5°59 | 23°30 | 28°32 | 4°25 | 9°32 | 11°12 | 3°19 | 4°53 | W20 |
| T 21 | 11 56 49 | 1° 7'04 | 6♓46 | 8°31 | 15°11 | 3°20 | 24°35 | 6° 4 | 23°31 | 28°35 | 4°24 | 9°26 | 11° 9 | 3°26 | 4°52 | T 21 |
| F 22 | 12 0 45 | 2° 6'27 | 21°56 | 8°40 | 16°17 | 4° 6 | 24°28 | 6° 9 | 23°33 | 28°37 | 4°24 | 9°20 | 11° 5 | 3°32 | 4°50 | F 22 |
| S 23 | 12 4 42 | 3° 5'49 | 7♈12 | 8°54 | 17°23 | 4°52 | 24°22 | 6°14 | 23°34 | 28°39 | 4°23 | 9°16 | 11° 2 | 3°39 | 4°49 | S 23 |
| S 24 | 12 8 38 | 4° 5'09 | 22°24 | 9°14 | 18°29 | 5°38 | 24°15 | 6°19 | 23°35 | 28°41 | 4°22 | 9°13 | 10°59 | 3°46 | 4°48 | S 24 |
| M25 | 12 12 35 | 5° 4'27 | 7♉22 | 9°38 | 19°34 | 6°24 | 24° 8 | 6°24 | 23°36 | 28°44 | 4°22 | 9°D12 | 10°56 | 3°52 | 4°47 | M25 |
| T 26 | 12 16 32 | 6° 3'42 | 21°58 | 10° 7 | 20°39 | 7°11 | 24° 1 | 6°29 | 23°37 | 28°46 | 4°21 | 9°13 | 10°53 | 3°59 | 4°46 | T 26 |
| W27 | 12 20 28 | 7° 2'56 | 6♊ 9 | 10°40 | 21°44 | 7°57 | 23°54 | 6°33 | 23°39 | 28°48 | 4°21 | 9°14 | 10°50 | 4° 6 | 4°45 | W27 |
| T 28 | 12 24 25 | 8° 2'07 | 19°53 | 11°17 | 22°49 | 8°43 | 23°47 | 6°38 | 23°40 | 28°50 | 4°20 | 9°15 | 10°46 | 4°12 | 4°44 | T 28 |
| F 29 | 12 28 21 | 9° 1'15 | 3♋12 | 11°58 | 23°53 | 9°29 | 23°40 | 6°42 | 23°42 | 28°53 | 4°20 | 9°R16 | 10°43 | 4°19 | 4°43 | F 29 |
| S 30 | 12 32 18 | 10° 0'22 | 16° 8 | 12°43 | 24°57 | 10°15 | 23°33 | 6°47 | 23°43 | 28°55 | 4°19 | 9°16 | 10°40 | 4°26 | 4°43 | S 30 |
| S 31 | 12 36 14 | 10♈59'25 | 28♋44 | 13♓31 | 26♉ 1 | 11♈ 0 | 23♎25 | 6♒51 | 23♊45 | 28♓57 | 4♌19 | 9♏15 | 10♏37 | 4♎32 | 4♌42 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 7s22 | 19n52 | 3s28 | 0s18 | 3n30 | 9n17 | 0n34 | 5s39 | 0s53 | 8s46 | 1n30 | 19s37 | 0s24 | 23n30 | 0n11 | 2s 5 | 1s20 | 24n55 | 5n58 | 15s 8 | 15s31 | 3s35 | 11n34 | 7s32 | F 1 |
| S 2 | 6 59 | 19 6 | 4 13 | 0 28 | 3 36 | 9 47 | 0 38 | 5 20 | 0 53 | 8 45 | 1 30 | 19 36 | 0 24 | 23 30 | 0 11 | 2 4 | 1 20 | 24 55 | 5 58 | 15 7 | 15 30 | 3 37 | 11 35 | 7 32 | S 2 |
| S 3 | 6 36 | 17 24 | 4 44 | 0 42 | 3 39 | 10 16 | 0 42 | 5 2 | 0 52 | 8 43 | 1 30 | 19 35 | 0 24 | 23 30 | 0 11 | 2 4 | 1 20 | 24 55 | 5 58 | 15 5 | 15 29 | 3 39 | 11 37 | 7 31 | S 3 |
| M 4 | 6 13 | 14 54 | 5 1 | 1 0 | 3 41 | 10 46 | 0 46 | 4 43 | 0 52 | 8 41 | 1 30 | 19 33 | 0 24 | 23 30 | 0 11 | 2 3 | 1 20 | 24 55 | 5 58 | 15 3 | 15 28 | 3 41 | 11 38 | 7 31 | M 4 |
| T 5 | 5 50 | 11 47 | 5 4 | 1 21 | 3 40 | 11 15 | 0 50 | 4 24 | 0 51 | 8 40 | 1 31 | 19 32 | 0 24 | 23 30 | 0 11 | 2 2 | 1 20 | 24 56 | 5 58 | 15 0 | 15 27 | 3 43 | 11 39 | 7 30 | T 5 |
| W 6 | 5 27 | 8 13 | 4 54 | 1 45 | 3 38 | 11 43 | 0 55 | 4 5 | 0 51 | 8 38 | 1 31 | 19 30 | 0 24 | 23 30 | 0 11 | 2 1 | 1 20 | 24 56 | 5 58 | 14 56 | 15 26 | 3 45 | 11 40 | 7 29 | W 6 |
| T 7 | 5 4 | 4 21 | 4 30 | 2 12 | 3 33 | 12 12 | 0 59 | 3 46 | 0 51 | 8 36 | 1 31 | 19 29 | 0 24 | 23 30 | 0 11 | 2 0 | 1 20 | 24 56 | 5 58 | 14 53 | 15 26 | 3 47 | 11 42 | 7 29 | T 7 |
| F 8 | 4 40 | 0 20 | 3 54 | 2 41 | 3 26 | 12 40 | 1 3 | 3 27 | 0 50 | 8 34 | 1 31 | 19 28 | 0 24 | 23 30 | 0 11 | 1 59 | 1 20 | 24 56 | 5 58 | 14 50 | 15 25 | 3 49 | 11 43 | 7 28 | F 8 |
| S 9 | 4 17 | 3s40 | 3 9 | 3 11 | 3 18 | 13 8 | 1 7 | 3 8 | 0 50 | 8 32 | 1 31 | 19 27 | 0 24 | 23 30 | 0 11 | 1 58 | 1 20 | 24 56 | 5 58 | 14 48 | 15 24 | 3 51 | 11 44 | 7 27 | S 9 |
| S 10 | 3 53 | 7 31 | 2 15 | 3 41 | 3 8 | 13 36 | 1 11 | 2 49 | 0 49 | 8 30 | 1 31 | 19 25 | 0 24 | 23 30 | 0 11 | 1 57 | 1 20 | 24 57 | 5 58 | 14 46 | 15 23 | 3 53 | 11 46 | 7 27 | S 10 |
| M11 | 3 30 | 11 5 | 1 15 | 4 12 | 2 57 | 14 3 | 1 16 | 2 30 | 0 49 | 8 28 | 1 32 | 19 24 | 0 24 | 23 30 | 0 11 | 1 56 | 1 20 | 24 57 | 5 58 | 14 45 | 15 22 | 3 55 | 11 47 | 7 26 | M11 |
| T 12 | 3 6 | 14 12 | 0 12 | 4 42 | 2 44 | 14 30 | 1 20 | 2 11 | 0 48 | 8 26 | 1 32 | 19 23 | 0 25 | 23 30 | 0 11 | 1 56 | 1 20 | 24 57 | 5 58 | 14 44 | 15 21 | 3 57 | 11 48 | 7 25 | T 12 |
| W13 | 2 43 | 16 46 | 0n52 | 5 10 | 2 31 | 14 57 | 1 24 | 1 52 | 0 48 | 8 24 | 1 32 | 19 21 | 0 25 | 23 30 | 0 11 | 1 55 | 1 20 | 24 57 | 5 58 | 14 44 | 15 20 | 3 59 | 11 49 | 7 25 | W13 |
| T 14 | 2 19 | 18 37 | 1 56 | 5 38 | 2 17 | 15 23 | 1 28 | 1 33 | 0 47 | 8 22 | 1 32 | 19 20 | 0 25 | 23 30 | 0 11 | 1 54 | 1 20 | 24 57 | 5 58 | 14 45 | 15 19 | 4 1 | 11 50 | 7 24 | T 14 |
| F 15 | 1 55 | 19 37 | 2 55 | 6 4 | 2 2 | 15 49 | 1 33 | 1 14 | 0 47 | 8 20 | 1 32 | 19 19 | 0 25 | 23 30 | 0 11 | 1 53 | 1 20 | 24 57 | 5 58 | 14 45 | 15 18 | 4 3 | 11 51 | 7 23 | F 15 |
| S 16 | 1 32 | 19 39 | 3 47 | 6 28 | 1 47 | 16 15 | 1 37 | 0 55 | 0 46 | 8 18 | 1 32 | 19 18 | 0 25 | 23 30 | 0 11 | 1 52 | 1 20 | 24 57 | 5 58 | 14 45 | 15 17 | 4 5 | 11 53 | 7 23 | S 16 |
| S 17 | 1 8 | 18 39 | 4 29 | 6 49 | 1 32 | 16 40 | 1 41 | 0 36 | 0 46 | 8 15 | 1 33 | 19 16 | 0 25 | 23 30 | 0 11 | 1 51 | 1 20 | 24 58 | 5 58 | 14 45 | 15 16 | 4 7 | 11 54 | 7 22 | S 17 |
| M18 | 0 44 | 16 34 | 4 58 | 7 9 | 1 17 | 17 5 | 1 45 | 0 17 | 0 45 | 8 13 | 1 33 | 19 15 | 0 25 | 23 30 | 0 11 | 1 50 | 1 20 | 24 58 | 5 58 | 14 44 | 15 15 | 4 9 | 11 55 | 7 21 | M18 |
| T 19 | 0 21 | 13 27 | 5 10 | 7 26 | 1 2 | 17 30 | 1 49 | 0n 1 | 0 45 | 8 11 | 1 33 | 19 14 | 0 25 | 23 30 | 0 11 | 1 49 | 1 20 | 24 58 | 5 58 | 14 43 | 15 14 | 4 11 | 11 56 | 7 21 | T 19 |
| W20 | 0n 3 | 9 27 | 5 3 | 7 41 | 0 47 | 17 54 | 1 54 | 0 20 | 0 44 | 8 8 | 1 33 | 19 13 | 0 25 | 23 30 | 0 11 | 1 48 | 1 20 | 24 58 | 5 57 | 14 41 | 15 13 | 4 13 | 11 57 | 7 20 | W20 |
| T 21 | 0 27 | 4 46 | 4 36 | 7 53 | 0 33 | 18 17 | 1 58 | 0 39 | 0 44 | 8 6 | 1 33 | 19 12 | 0 26 | 23 30 | 0 11 | 1 47 | 1 20 | 24 58 | 5 57 | 14 39 | 15 12 | 4 15 | 11 58 | 7 19 | T 21 |
| F 22 | 0 50 | 0n18 | 3 49 | 8 3 | 0 18 | 18 41 | 2 2 | 0 58 | 0 43 | 8 3 | 1 33 | 19 11 | 0 26 | 23 30 | 0 11 | 1 47 | 1 20 | 24 58 | 5 57 | 14 38 | 15 11 | 4 17 | 11 59 | 7 18 | F 22 |
| S 23 | 1 14 | 5 24 | 2 46 | 8 10 | 0 5 | 19 4 | 2 6 | 1 17 | 0 43 | 8 1 | 1 33 | 19 10 | 0 26 | 23 30 | 0 11 | 1 46 | 1 20 | 24 58 | 5 57 | 14 36 | 15 10 | 4 19 | 12 0 | 7 18 | S 23 |
| S 24 | 1 38 | 10 8 | 1 31 | 8 15 | 0s 9 | 19 26 | 2 10 | 1 36 | 0 42 | 7 58 | 1 33 | 19 8 | 0 26 | 23 30 | 0 11 | 1 45 | 1 20 | 24 58 | 5 57 | 14 35 | 15 9 | 4 21 | 12 1 | 7 17 | S 24 |
| M25 | 2 1 | 14 9 | 0 10 | 8 18 | 0 22 | 19 48 | 2 14 | 1 55 | 0 42 | 7 56 | 1 33 | 19 7 | 0 26 | 23 31 | 0 11 | 1 44 | 1 20 | 24 58 | 5 57 | 14 35 | 15 8 | 4 23 | 12 2 | 7 16 | M25 |
| T 26 | 2 25 | 17 10 | 1s 9 | 8 19 | 0 34 | 20 10 | 2 18 | 2 13 | 0 41 | 7 53 | 1 33 | 19 6 | 0 26 | 23 31 | 0 11 | 1 43 | 1 20 | 24 58 | 5 57 | 14 35 | 15 7 | 4 25 | 12 3 | 7 15 | T 26 |
| W27 | 2 48 | 19 2 | 2 22 | 8 17 | 0 46 | 20 31 | 2 22 | 2 32 | 0 41 | 7 50 | 1 34 | 19 5 | 0 26 | 23 31 | 0 11 | 1 42 | 1 20 | 24 59 | 5 57 | 14 36 | 15 6 | 4 27 | 12 4 | 7 14 | W27 |
| T 28 | 3 12 | 19 42 | 3 25 | 8 13 | 0 57 | 20 51 | 2 26 | 2 51 | 0 40 | 7 48 | 1 34 | 19 4 | 0 26 | 23 31 | 0 11 | 1 41 | 1 20 | 24 59 | 5 57 | 14 36 | 15 5 | 4 29 | 12 5 | 7 14 | T 28 |
| F 29 | 3 35 | 19 13 | 4 14 | 8 7 | 1 7 | 21 11 | 2 30 | 3 9 | 0 39 | 7 45 | 1 34 | 19 3 | 0 26 | 23 31 | 0 11 | 1 40 | 1 20 | 24 59 | 5 57 | 14 36 | 15 4 | 4 31 | 12 6 | 7 13 | F 29 |
| S 30 | 3 58 | 17 44 | 4 49 | 8 0 | 1 17 | 21 31 | 2 34 | 3 28 | 0 39 | 7 42 | 1 34 | 19 2 | 0 27 | 23 31 | 0 11 | 1 39 | 1 20 | 24 59 | 5 57 | 14 36 | 15 3 | 4 33 | 12 7 | 7 12 | S 30 |
| S 31 | 4n21 | 15n25 | 5s 8 | 7s50 | 1s27 | 21n50 | 2n38 | 3n46 | 0s38 | 7s40 | 1n34 | 19s 1 | 0s27 | 23n31 | 0n11 | 1s39 | 1s20 | 24n59 | 5n57 | 14s36 | 15s 2 | 4s35 | 12n 8 | 7s11 | S 31 |

Julian Day Number = 2340936.5, Delta T = 15.33 sec
Ecliptic obliquity = 23°28'37, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'47, Lahiri = 19°37'47Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## APRIL 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 12 40 11 | 11♈58'27 | 11♌ 5 | 14♓22 | 27♉ 4 | 11♈46 | 23°R18 | 6♒55 | 23♊46 | 28♓59 | 4°R18 | 9°R12 | 10♏34 | 4♎39 | 4°R42 | M 1 |
| T 2 | 12 44 7 | 12°57'26 | 23°13 | 15°17 | 28° 8 | 12°32 | 23♎11 | 7° 0 | 23°48 | 29° 2 | 4♌18 | 9♏ 9 | 10°31 | 4°46 | 4♌41 | T 2 |
| W 3 | 12 48 4 | 13°56'23 | 5♍12 | 16°15 | 29°10 | 13°18 | 23° 3 | 7° 4 | 23°50 | 29° 4 | 4°18 | 9° 5 | 10°27 | 4°52 | 4°41 | W 3 |
| T 4 | 12 52 1 | 14°55'18 | 17° 6 | 17°15 | 0♊13 | 14° 4 | 22°56 | 7° 8 | 23°51 | 29° 6 | 4°17 | 9° 0 | 10°24 | 4°59 | 4°D41 | T 4 |
| F 5 | 12 55 57 | 15°54'10 | 28°56 | 18°18 | 1°15 | 14°49 | 22°48 | 7°12 | 23°53 | 29° 8 | 4°17 | 8°57 | 10°21 | 5° 6 | 4°41 | F 5 |
| S 6 | 12 59 54 | 16°53'01 | 10♎45 | 19°24 | 2°17 | 15°35 | 22°40 | 7°16 | 23°55 | 29°10 | 4°17 | 8°53 | 10°18 | 5°12 | 4°41 | S 6 |
| S 7 | 13 3 50 | 17°51'49 | 22°36 | 20°32 | 3°19 | 16°20 | 22°33 | 7°20 | 23°57 | 29°13 | 4°17 | 8°51 | 10°15 | 5°19 | 4°42 | S 7 |
| M 8 | 13 7 47 | 18°50'36 | 4♏29 | 21°42 | 4°20 | 17° 6 | 22°25 | 7°23 | 23°59 | 29°15 | 4°16 | 8°D51 | 10°11 | 5°26 | 4°42 | M 8 |
| T 9 | 13 11 43 | 19°49'21 | 16°27 | 22°55 | 5°21 | 17°51 | 22°18 | 7°27 | 24° 1 | 29°17 | 4°16 | 8°51 | 10° 8 | 5°32 | 4°42 | T 9 |
| W10 | 13 15 40 | 20°48'03 | 28°33 | 24°10 | 6°21 | 18°37 | 22°10 | 7°31 | 24° 3 | 29°19 | 4°16 | 8°52 | 10° 5 | 5°39 | 4°43 | W10 |
| T 11 | 13 19 36 | 21°46'44 | 10♐49 | 25°27 | 7°21 | 19°22 | 22° 2 | 7°34 | 24° 5 | 29°21 | 4°16 | 8°53 | 10° 2 | 5°46 | 4°44 | T 11 |
| F 12 | 13 23 33 | 22°45'24 | 23°19 | 26°47 | 8°21 | 20° 8 | 21°54 | 7°37 | 24° 7 | 29°23 | 4°16 | 8°54 | 9°59 | 5°52 | 4°45 | F 12 |
| S 13 | 13 27 30 | 23°44'01 | 6♑ 5 | 28° 8 | 9°20 | 20°53 | 21°47 | 7°41 | 24° 9 | 29°25 | 4°16 | 8°55 | 9°56 | 5°59 | 4°45 | S 13 |
| S 14 | 13 31 26 | 24°42'37 | 19°11 | 29°31 | 10°19 | 21°38 | 21°39 | 7°44 | 24°11 | 29°28 | 4°16 | 8°R56 | 9°52 | 6° 6 | 4°46 | S 14 |
| M15 | 13 35 23 | 25°41'11 | 2♒39 | 0♈56 | 11°17 | 22°23 | 21°31 | 7°47 | 24°13 | 29°30 | 4°16 | 8°56 | 9°49 | 6°12 | 4°48 | M15 |
| T 16 | 13 39 19 | 26°39'44 | 16°32 | 2°23 | 12°15 | 23° 9 | 21°24 | 7°50 | 24°15 | 29°32 | 4°D16 | 8°55 | 9°46 | 6°19 | 4°49 | T 16 |
| W17 | 13 43 16 | 27°38'14 | 0♓48 | 3°52 | 13°12 | 23°54 | 21°16 | 7°53 | 24°18 | 29°34 | 4°16 | 8°54 | 9°43 | 6°26 | 4°50 | W17 |
| T 18 | 13 47 12 | 28°36'44 | 15°26 | 5°23 | 14° 9 | 24°39 | 21° 9 | 7°56 | 24°20 | 29°36 | 4°16 | 8°53 | 9°40 | 6°32 | 4°52 | T 18 |
| F 19 | 13 51 9 | 29°35'11 | 0♈21 | 6°55 | 15° 6 | 25°24 | 21° 1 | 7°59 | 24°22 | 29°38 | 4°16 | 8°52 | 9°36 | 6°39 | 4°53 | F 19 |
| S 20 | 13 55 5 | 0♉33'37 | 15°26 | 8°29 | 16° 1 | 26° 9 | 20°54 | 8° 2 | 24°25 | 29°40 | 4°16 | 8°51 | 9°33 | 6°46 | 4°55 | S 20 |
| S 21 | 13 59 2 | 1°32'01 | 0♉32 | 10° 6 | 16°57 | 26°54 | 20°46 | 8° 4 | 24°27 | 29°42 | 4°16 | 8°51 | 9°30 | 6°52 | 4°56 | S 21 |
| M22 | 14 2 58 | 2°30'23 | 15°30 | 11°43 | 17°52 | 27°39 | 20°39 | 8° 7 | 24°30 | 29°44 | 4°16 | 8°D51 | 9°27 | 6°59 | 4°58 | M22 |
| T 23 | 14 6 55 | 3°28'43 | 0♊11 | 13°23 | 18°46 | 28°23 | 20°31 | 8° 9 | 24°32 | 29°46 | 4°16 | 8°51 | 9°24 | 7° 6 | 5° 0 | T 23 |
| W24 | 14 10 52 | 4°27'02 | 14°31 | 15° 4 | 19°40 | 29° 8 | 20°24 | 8°12 | 24°35 | 29°48 | 4°17 | 8°51 | 9°21 | 7°12 | 5° 2 | W24 |
| T 25 | 14 14 48 | 5°25'18 | 28°25 | 16°48 | 20°33 | 29°53 | 20°17 | 8°14 | 24°37 | 29°50 | 4°17 | 8°52 | 9°17 | 7°19 | 5° 4 | T 25 |
| F 26 | 14 18 45 | 6°23'33 | 11♋52 | 18°33 | 21°25 | 0♉37 | 20°10 | 8°16 | 24°40 | 29°52 | 4°17 | 8°52 | 9°14 | 7°26 | 5° 7 | F 26 |
| S 27 | 14 22 41 | 7°21'45 | 24°54 | 20°19 | 22°17 | 1°22 | 20° 2 | 8°18 | 24°43 | 29°54 | 4°17 | 8°52 | 9°11 | 7°32 | 5° 9 | S 27 |
| S 28 | 14 26 38 | 8°19'56 | 7♌34 | 22° 8 | 23° 8 | 2° 7 | 19°55 | 8°20 | 24°45 | 29°55 | 4°18 | 8°52 | 9° 8 | 7°39 | 5°12 | S 28 |
| M29 | 14 30 34 | 9°18'04 | 19°55 | 23°58 | 23°58 | 2°51 | 19°49 | 8°22 | 24°48 | 29°57 | 4°18 | 8°52 | 9° 5 | 7°46 | 5°14 | M29 |
| T 30 | 14 34 31 | 10♉16'10 | 2♍ 1 | 25♈51 | 24♊48 | 3♉36 | 19♎42 | 8♒24 | 24♊51 | 29♓59 | 4♌18 | 8♏52 | 9♏ 2 | 7♎52 | 5♌17 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 4n44 | 12n27 | 5s13 | 7s38 | 1s36 | 22n 9 | 2n41 | 4n 5 | 0s38 | 7s37 | 1n34 | 19s 0 | 0s27 | 23n31 | 0n11 | 1s38 | 1s20 | 24n59 | 5n57 | 14s35 | 15s 1 | 4s37 | 12n 9 | 7s11 |
| T 2 | 5 7 | 9 0 | 5 4 | 7 24 | 1 44 | 22 27 | 2 45 | 4 23 | 0 37 | 7 34 | 1 34 | 18 59 | 0 27 | 23 31 | 0 11 | 1 37 | 1 20 | 24 59 | 5 57 | 14 34 | 15 0 | 4 39 | 12 10 | 7 10 |
| W 3 | 5 30 | 5 15 | 4 42 | 7 9 | 1 52 | 22 45 | 2 49 | 4 42 | 0 37 | 7 31 | 1 34 | 18 58 | 0 27 | 23 31 | 0 11 | 1 36 | 1 20 | 24 59 | 5 56 | 14 33 | 14 59 | 4 41 | 12 10 | 7 9 |
| T 4 | 5 53 | 1 18 | 4 7 | 6 52 | 1 59 | 23 2 | 2 52 | 5 0 | 0 36 | 7 28 | 1 34 | 18 57 | 0 27 | 23 31 | 0 11 | 1 35 | 1 20 | 24 59 | 5 56 | 14 31 | 14 58 | 4 43 | 12 11 | 7 8 |
| F 5 | 6 16 | 2s40 | 3 22 | 6 33 | 2 5 | 23 18 | 2 56 | 5 18 | 0 36 | 7 26 | 1 34 | 18 56 | 0 27 | 23 31 | 0 11 | 1 34 | 1 20 | 24 59 | 5 56 | 14 30 | 14 57 | 4 45 | 12 12 | 7 7 |
| S 6 | 6 39 | 6 33 | 2 29 | 6 13 | 2 11 | 23 35 | 2 59 | 5 36 | 0 35 | 7 23 | 1 34 | 18 56 | 0 27 | 23 31 | 0 11 | 1 33 | 1 20 | 24 59 | 5 56 | 14 29 | 14 56 | 4 47 | 12 13 | 7 7 |
| S 7 | 7 1 | 10 10 | 1 29 | 5 51 | 2 17 | 23 50 | 3 3 | 5 54 | 0 34 | 7 20 | 1 34 | 18 55 | 0 27 | 23 32 | 0 11 | 1 33 | 1 20 | 24 59 | 5 56 | 14 28 | 14 55 | 4 49 | 12 13 | 7 6 |
| M 8 | 7 24 | 13 25 | 0 24 | 5 28 | 2 22 | 24 5 | 3 6 | 6 12 | 0 34 | 7 17 | 1 34 | 18 54 | 0 28 | 23 32 | 0 11 | 1 32 | 1 20 | 24 59 | 5 56 | 14 28 | 14 54 | 4 51 | 12 14 | 7 5 |
| T 9 | 7 46 | 16 7 | 0n42 | 5 3 | 2 26 | 24 20 | 3 9 | 6 30 | 0 33 | 7 14 | 1 34 | 18 53 | 0 28 | 23 32 | 0 11 | 1 31 | 1 20 | 24 59 | 5 56 | 14 28 | 14 53 | 4 53 | 12 15 | 7 4 |
| W10 | 8 8 | 18 8 | 1 47 | 4 36 | 2 30 | 24 33 | 3 12 | 6 48 | 0 33 | 7 11 | 1 34 | 18 52 | 0 28 | 23 32 | 0 11 | 1 30 | 1 20 | 24 59 | 5 56 | 14 28 | 14 52 | 4 55 | 12 15 | 7 3 |
| T 11 | 8 30 | 19 20 | 2 48 | 4 9 | 2 33 | 24 47 | 3 15 | 7 6 | 0 32 | 7 9 | 1 34 | 18 51 | 0 28 | 23 32 | 0 11 | 1 29 | 1 20 | 24 59 | 5 56 | 14 29 | 14 51 | 4 57 | 12 16 | 7 3 |
| F 12 | 8 52 | 19 37 | 3 42 | 3 39 | 2 35 | 25 0 | 3 18 | 7 24 | 0 32 | 7 6 | 1 34 | 18 51 | 0 28 | 23 32 | 0 11 | 1 28 | 1 20 | 24 59 | 5 56 | 14 29 | 14 50 | 4 59 | 12 17 | 7 2 |
| S 13 | 9 14 | 18 54 | 4 27 | 3 9 | 2 37 | 25 12 | 3 21 | 7 41 | 0 31 | 7 3 | 1 34 | 18 50 | 0 28 | 23 32 | 0 11 | 1 28 | 1 20 | 24 58 | 5 56 | 14 30 | 14 49 | 5 1 | 12 17 | 7 1 |
| S 14 | 9 35 | 17 11 | 4 58 | 2 37 | 2 39 | 25 23 | 3 24 | 7 59 | 0 30 | 7 0 | 1 34 | 18 49 | 0 28 | 23 32 | 0 11 | 1 27 | 1 20 | 24 58 | 5 56 | 14 30 | 14 48 | 5 3 | 12 18 | 7 0 |
| M15 | 9 57 | 14 29 | 5 15 | 2 4 | 2 40 | 25 35 | 3 27 | 8 16 | 0 30 | 6 57 | 1 34 | 18 49 | 0 28 | 23 32 | 0 11 | 1 26 | 1 20 | 24 58 | 5 55 | 14 30 | 14 47 | 5 5 | 12 18 | 6 59 |
| T 16 | 10 18 | 10 54 | 5 14 | 1 30 | 2 40 | 25 45 | 3 29 | 8 33 | 0 29 | 6 55 | 1 34 | 18 48 | 0 29 | 23 32 | 0 11 | 1 25 | 1 20 | 24 58 | 5 55 | 14 30 | 14 46 | 5 7 | 12 19 | 6 58 |
| W17 | 10 39 | 6 37 | 4 54 | 0 55 | 2 40 | 25 55 | 3 32 | 8 51 | 0 29 | 6 52 | 1 34 | 18 47 | 0 29 | 23 32 | 0 11 | 1 24 | 1 21 | 24 58 | 5 55 | 14 29 | 14 45 | 5 9 | 12 19 | 6 58 |
| T 18 | 11 0 | 1 50 | 4 15 | 0 18 | 2 39 | 26 4 | 3 34 | 9 8 | 0 28 | 6 49 | 1 34 | 18 47 | 0 29 | 23 33 | 0 11 | 1 24 | 1 21 | 24 58 | 5 55 | 14 29 | 14 44 | 5 11 | 12 20 | 6 57 |
| F 19 | 11 21 | 3n10 | 3 18 | 0n20 | 2 38 | 26 13 | 3 36 | 9 25 | 0 27 | 6 46 | 1 33 | 18 46 | 0 29 | 23 33 | 0 11 | 1 23 | 1 21 | 24 58 | 5 55 | 14 29 | 14 43 | 5 13 | 12 20 | 6 56 |
| S 20 | 11 41 | 8 2 | 2 6 | 0 59 | 2 36 | 26 22 | 3 38 | 9 42 | 0 27 | 6 43 | 1 33 | 18 45 | 0 29 | 23 33 | 0 11 | 1 22 | 1 21 | 24 58 | 5 55 | 14 28 | 14 42 | 5 15 | 12 21 | 6 55 |
| S 21 | 12 2 | 12 24 | 0 46 | 1 38 | 2 34 | 26 29 | 3 40 | 9 58 | 0 26 | 6 41 | 1 33 | 18 45 | 0 29 | 23 33 | 0 11 | 1 21 | 1 21 | 24 58 | 5 55 | 14 28 | 14 41 | 5 17 | 12 21 | 6 54 |
| M22 | 12 22 | 15 55 | 0s37 | 2 19 | 2 31 | 26 37 | 3 42 | 10 15 | 0 26 | 6 38 | 1 33 | 18 44 | 0 29 | 23 33 | 0 11 | 1 20 | 1 21 | 24 58 | 5 55 | 14 28 | 14 40 | 5 19 | 12 21 | 6 54 |
| T 23 | 12 42 | 18 20 | 1 56 | 3 1 | 2 28 | 26 43 | 3 44 | 10 32 | 0 25 | 6 35 | 1 33 | 18 44 | 0 29 | 23 33 | 0 11 | 1 20 | 1 21 | 24 57 | 5 55 | 14 28 | 14 39 | 5 21 | 12 22 | 6 53 |
| W24 | 13 1 | 19 30 | 3 6 | 3 44 | 2 24 | 26 49 | 3 46 | 10 48 | 0 24 | 6 33 | 1 33 | 18 43 | 0 30 | 23 33 | 0 11 | 1 19 | 1 21 | 24 57 | 5 55 | 14 28 | 14 38 | 5 23 | 12 22 | 6 52 |
| T 25 | 13 21 | 19 26 | 4 2 | 4 28 | 2 20 | 26 55 | 3 47 | 11 5 | 0 24 | 6 30 | 1 33 | 18 43 | 0 30 | 23 33 | 0 11 | 1 18 | 1 21 | 24 57 | 5 55 | 14 29 | 14 37 | 5 25 | 12 22 | 6 51 |
| F 26 | 13 40 | 18 15 | 4 43 | 5 12 | 2 15 | 27 0 | 3 48 | 11 21 | 0 23 | 6 28 | 1 33 | 18 42 | 0 30 | 23 33 | 0 11 | 1 17 | 1 21 | 24 57 | 5 54 | 14 29 | 14 36 | 5 27 | 12 23 | 6 50 |
| S 27 | 13 59 | 16 7 | 5 8 | 5 57 | 2 9 | 27 4 | 3 49 | 11 37 | 0 22 | 6 25 | 1 33 | 18 42 | 0 30 | 23 33 | 0 11 | 1 17 | 1 21 | 24 57 | 5 54 | 14 29 | 14 35 | 5 29 | 12 23 | 6 50 |
| S 28 | 14 18 | 13 17 | 5 18 | 6 43 | 2 3 | 27 8 | 3 50 | 11 53 | 0 22 | 6 22 | 1 33 | 18 42 | 0 30 | 23 34 | 0 11 | 1 16 | 1 21 | 24 57 | 5 54 | 14 29 | 14 34 | 5 31 | 12 23 | 6 49 |
| M29 | 14 37 | 9 56 | 5 12 | 7 30 | 1 57 | 27 11 | 3 51 | 12 9 | 0 21 | 6 20 | 1 32 | 18 41 | 0 30 | 23 34 | 0 11 | 1 15 | 1 21 | 24 57 | 5 54 | 14 29 | 14 33 | 5 33 | 12 23 | 6 48 |
| T 30 | 14n55 | 6n13 | 4s52 | 8n18 | 1s50 | 27n14 | 3n52 | 12n25 | 0s21 | 6s18 | 1n32 | 18s41 | 0s30 | 23n34 | 0n11 | 1s15 | 1s21 | 24n56 | 5n54 | 14s29 | 14s32 | 5s35 | 12n23 | 6s47 |

Julian Day Number = 2340967.5, Delta T = 15.30 sec
Ecliptic obliquity = 23°28'37, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'51, Lahiri = 19°37'51Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## MAY 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 14 38 27 | 11♉14'14 | 13♍58 | 27♈45 | 25♊37 | 4♉20 | 19°R35 | 8♒25 | 24♊54 | 0♈ 1 | 4♌19 | 8♏53 | 8♏58 | 7♎59 | 5♌20 | W 1 |
| T 2 | 14 42 24 | 12°12'17 | 25°48 | 29°40 | 26°25 | 5° 4 | 19♎28 | 8°27 | 24°57 | 0° 3 | 4°19 | 8°53 | 8°55 | 8° 6 | 5°22 | T 2 |
| F 3 | 14 46 21 | 13°10'17 | 7♎37 | 1♉38 | 27°12 | 5°49 | 19°22 | 8°28 | 24°59 | 0° 5 | 4°20 | 8°53 | 8°52 | 8°12 | 5°25 | F 3 |
| S 4 | 14 50 17 | 14° 8'16 | 19°27 | 3°37 | 27°58 | 6°33 | 19°15 | 8°30 | 25° 2 | 0° 6 | 4°20 | 8°54 | 8°49 | 8°19 | 5°28 | S 4 |
| S 5 | 14 54 14 | 15° 6'13 | 1♏21 | 5°38 | 28°44 | 7°17 | 19° 9 | 8°31 | 25° 5 | 0° 8 | 4°21 | 8°54 | 8°46 | 8°26 | 5°32 | S 5 |
| M 6 | 14 58 10 | 16° 4'09 | 13°21 | 7°41 | 29°28 | 8° 1 | 19° 3 | 8°32 | 25° 8 | 0°10 | 4°21 | 8°R54 | 8°42 | 8°32 | 5°35 | M 6 |
| T 7 | 15 2 7 | 17° 2'03 | 25°30 | 9°45 | 0♋12 | 8°45 | 18°57 | 8°33 | 25°11 | 0°12 | 4°22 | 8°54 | 8°39 | 8°39 | 5°38 | T 7 |
| W 8 | 15 6 3 | 17°59'55 | 7♐50 | 11°51 | 0°54 | 9°29 | 18°51 | 8°35 | 25°14 | 0°13 | 4°22 | 8°53 | 8°36 | 8°46 | 5°42 | W 8 |
| T 9 | 15 10 0 | 18°57'46 | 20°21 | 13°58 | 1°36 | 10°13 | 18°45 | 8°35 | 25°17 | 0°15 | 4°23 | 8°52 | 8°33 | 8°52 | 5°45 | T 9 |
| F 10 | 15 13 56 | 19°55'36 | 3♑ 6 | 16° 6 | 2°16 | 10°57 | 18°39 | 8°36 | 25°20 | 0°16 | 4°23 | 8°50 | 8°30 | 8°59 | 5°49 | F 10 |
| S 11 | 15 17 53 | 20°53'24 | 16° 5 | 18°16 | 2°56 | 11°41 | 18°34 | 8°37 | 25°23 | 0°18 | 4°24 | 8°49 | 8°27 | 9° 6 | 5°52 | S 11 |
| S 12 | 15 21 50 | 21°51'12 | 29°19 | 20°26 | 3°34 | 12°25 | 18°28 | 8°38 | 25°27 | 0°20 | 4°25 | 8°48 | 8°23 | 9°12 | 5°56 | S 12 |
| M13 | 15 25 46 | 22°48'58 | 12♒51 | 22°37 | 4°11 | 13° 9 | 18°23 | 8°38 | 25°30 | 0°21 | 4°25 | 8°47 | 8°20 | 9°19 | 6° 0 | M13 |
| T 14 | 15 29 43 | 23°46'42 | 26°39 | 24°48 | 4°47 | 13°52 | 18°18 | 8°39 | 25°33 | 0°23 | 4°26 | 8°D47 | 8°17 | 9°26 | 6° 4 | T 14 |
| W15 | 15 33 39 | 24°44'26 | 10♓44 | 27° 0 | 5°21 | 14°36 | 18°13 | 8°39 | 25°36 | 0°24 | 4°27 | 8°47 | 8°14 | 9°32 | 6° 8 | W15 |
| T 16 | 15 37 36 | 25°42'09 | 25° 4 | 29°11 | 5°54 | 15°20 | 18° 8 | 8°39 | 25°39 | 0°26 | 4°28 | 8°48 | 8°11 | 9°39 | 6°12 | T 16 |
| F 17 | 15 41 32 | 26°39'51 | 9♈38 | 1♊22 | 6°26 | 16° 3 | 18° 3 | 8°39 | 25°42 | 0°27 | 4°28 | 8°49 | 8° 8 | 9°46 | 6°17 | F 17 |
| S 18 | 15 45 29 | 27°37'31 | 24°21 | 3°32 | 6°56 | 16°47 | 17°58 | 8°R39 | 25°46 | 0°29 | 4°29 | 8°50 | 8° 4 | 9°52 | 6°21 | S 18 |
| S 19 | 15 49 25 | 28°35'11 | 9♉ 7 | 5°41 | 7°25 | 17°30 | 17°54 | 8°39 | 25°49 | 0°30 | 4°30 | 8°R51 | 8° 1 | 9°59 | 6°25 | S 19 |
| M20 | 15 53 22 | 29°32'49 | 23°49 | 7°50 | 7°53 | 18°14 | 17°50 | 8°39 | 25°52 | 0°31 | 4°31 | 8°50 | 7°58 | 10° 6 | 6°30 | M20 |
| T 21 | 15 57 19 | 0♊30'26 | 8♊21 | 9°56 | 8°18 | 18°57 | 17°46 | 8°39 | 25°56 | 0°33 | 4°32 | 8°49 | 7°55 | 10°12 | 6°34 | T 21 |
| W22 | 16 1 15 | 1°28'02 | 22°36 | 12° 1 | 8°42 | 19°40 | 17°42 | 8°39 | 25°59 | 0°34 | 4°33 | 8°46 | 7°52 | 10°19 | 6°39 | W22 |
| T 23 | 16 5 12 | 2°25'37 | 6♋30 | 14° 4 | 9° 5 | 20°23 | 17°38 | 8°38 | 26° 2 | 0°35 | 4°34 | 8°43 | 7°48 | 10°26 | 6°44 | T 23 |
| F 24 | 16 9 8 | 3°23'11 | 20° 1 | 16° 5 | 9°25 | 21° 7 | 17°34 | 8°38 | 26° 6 | 0°37 | 4°35 | 8°39 | 7°45 | 10°32 | 6°49 | F 24 |
| S 25 | 16 13 5 | 4°20'43 | 3♌ 7 | 18° 4 | 9°44 | 21°50 | 17°31 | 8°37 | 26° 9 | 0°38 | 4°36 | 8°36 | 7°42 | 10°39 | 6°54 | S 25 |
| S 26 | 16 17 1 | 5°18'13 | 15°50 | 20° 0 | 10° 1 | 22°33 | 17°28 | 8°36 | 26°12 | 0°39 | 4°37 | 8°34 | 7°39 | 10°46 | 6°59 | S 26 |
| M27 | 16 20 58 | 6°15'43 | 28°13 | 21°54 | 10°15 | 23°16 | 17°24 | 8°35 | 26°16 | 0°40 | 4°38 | 8°32 | 7°36 | 10°52 | 7° 4 | M27 |
| T 28 | 16 24 54 | 7°13'11 | 10♍21 | 23°46 | 10°28 | 23°59 | 17°21 | 8°34 | 26°19 | 0°42 | 4°39 | 8°D32 | 7°33 | 10°59 | 7° 9 | T 28 |
| W29 | 16 28 51 | 8°10'38 | 22°17 | 25°35 | 10°39 | 24°42 | 17°19 | 8°33 | 26°23 | 0°43 | 4°40 | 8°33 | 7°29 | 11° 6 | 7°14 | W29 |
| T 30 | 16 32 48 | 9° 8'03 | 4♎ 7 | 27°21 | 10°47 | 25°25 | 17°16 | 8°32 | 26°26 | 0°44 | 4°41 | 8°34 | 7°26 | 11°12 | 7°19 | T 30 |
| F 31 | 16 36 44 | 10♊ 5'27 | 15♎56 | 29♊ 5 | 10♋53 | 26♉ 7 | 17♎14 | 8♒31 | 26♊30 | 0♈45 | 4♌42 | 8♏36 | 7♏23 | 11♎19 | 7♌25 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 15n13 | 2n19 | 4s20 | 9n 5 | 1s43 | 27n17 | 3n52 | 12n40 | 0s20 | 6s15 | 1n32 | 18s41 | 0s30 | 23n34 | 0n11 | 1s14 | 1s21 | 24n56 | 5n54 | 14s29 | 14s31 | 5s37 | 12n23 | 6s46 |
| T 2 | 15 31 | 1s39 | 3 37 | 9 54 | 1 35 | 27 18 | 3 53 | 12 56 | 0 19 | 6 13 | 1 32 | 18 40 | 0 31 | 23 34 | 0 11 | 1 13 | 1 21 | 24 56 | 5 54 | 14 29 | 14 30 | 5 39 | 12 23 | 6 46 |
| F 3 | 15 49 | 5 33 | 2 45 | 10 42 | 1 27 | 27 20 | 3 53 | 13 11 | 0 19 | 6 10 | 1 32 | 18 40 | 0 31 | 23 34 | 0 11 | 1 12 | 1 21 | 24 56 | 5 54 | 14 29 | 14 29 | 5 40 | 12 24 | 6 45 |
| S 4 | 16 6 | 9 15 | 1 46 | 11 31 | 1 18 | 27 20 | 3 53 | 13 26 | 0 18 | 6 8 | 1 32 | 18 40 | 0 31 | 23 34 | 0 11 | 1 12 | 1 21 | 24 56 | 5 54 | 14 29 | 14 28 | 5 42 | 12 24 | 6 44 |
| S 5 | 16 24 | 12 37 | 0 42 | 12 20 | 1 9 | 27 21 | 3 53 | 13 41 | 0 17 | 6 6 | 1 31 | 18 40 | 0 31 | 23 34 | 0 11 | 1 11 | 1 21 | 24 55 | 5 54 | 14 29 | 14 27 | 5 44 | 12 24 | 6 43 |
| M 6 | 16 40 | 15 29 | 0n25 | 13 9 | 0 59 | 27 21 | 3 52 | 13 56 | 0 17 | 6 4 | 1 31 | 18 39 | 0 31 | 23 34 | 0 11 | 1 11 | 1 21 | 24 55 | 5 54 | 14 29 | 14 26 | 5 46 | 12 24 | 6 43 |
| T 7 | 16 57 | 17 42 | 1 31 | 13 58 | 0 50 | 27 20 | 3 51 | 14 11 | 0 16 | 6 2 | 1 31 | 18 39 | 0 31 | 23 35 | 0 11 | 1 10 | 1 21 | 24 55 | 5 54 | 14 29 | 14 25 | 5 48 | 12 24 | 6 42 |
| W 8 | 17 13 | 19 7 | 2 34 | 14 47 | 0 40 | 27 19 | 3 51 | 14 26 | 0 16 | 5 59 | 1 31 | 18 39 | 0 31 | 23 35 | 0 11 | 1 9 | 1 21 | 24 55 | 5 53 | 14 29 | 14 23 | 5 50 | 12 23 | 6 41 |
| T 9 | 17 29 | 19 38 | 3 30 | 15 35 | 0 30 | 27 17 | 3 49 | 14 40 | 0 15 | 5 57 | 1 31 | 18 39 | 0 31 | 23 35 | 0 11 | 1 9 | 1 21 | 24 54 | 5 53 | 14 29 | 14 22 | 5 52 | 12 23 | 6 40 |
| F 10 | 17 45 | 19 9 | 4 17 | 16 23 | 0 19 | 27 15 | 3 48 | 14 55 | 0 14 | 5 55 | 1 31 | 18 39 | 0 32 | 23 35 | 0 11 | 1 8 | 1 21 | 24 54 | 5 53 | 14 28 | 14 21 | 5 54 | 12 23 | 6 40 |
| S 11 | 18 0 | 17 40 | 4 52 | 17 9 | 0 9 | 27 13 | 3 46 | 15 9 | 0 14 | 5 53 | 1 30 | 18 39 | 0 32 | 23 35 | 0 11 | 1 7 | 1 21 | 24 54 | 5 53 | 14 28 | 14 20 | 5 56 | 12 23 | 6 39 |
| S 12 | 18 15 | 15 14 | 5 12 | 17 55 | 0n 2 | 27 10 | 3 45 | 15 23 | 0 13 | 5 52 | 1 30 | 18 39 | 0 32 | 23 35 | 0 11 | 1 7 | 1 21 | 24 54 | 5 53 | 14 27 | 14 19 | 5 58 | 12 23 | 6 38 |
| M13 | 18 30 | 11 56 | 5 16 | 18 39 | 0 12 | 27 7 | 3 43 | 15 37 | 0 12 | 5 50 | 1 30 | 18 39 | 0 32 | 23 35 | 0 11 | 1 6 | 1 21 | 24 54 | 5 53 | 14 27 | 14 18 | 6 0 | 12 23 | 6 37 |
| T 14 | 18 45 | 7 55 | 5 1 | 19 22 | 0 23 | 27 3 | 3 40 | 15 50 | 0 12 | 5 48 | 1 30 | 18 39 | 0 32 | 23 35 | 0 11 | 1 6 | 1 21 | 24 53 | 5 53 | 14 27 | 14 17 | 6 2 | 12 22 | 6 37 |
| W15 | 18 59 | 3 24 | 4 29 | 20 3 | 0 33 | 26 59 | 3 38 | 16 4 | 0 11 | 5 46 | 1 30 | 18 39 | 0 32 | 23 35 | 0 11 | 1 5 | 1 22 | 24 53 | 5 53 | 14 27 | 14 16 | 6 4 | 12 22 | 6 36 |
| T 16 | 19 13 | 1n24 | 3 39 | 20 43 | 0 43 | 26 55 | 3 35 | 16 17 | 0 10 | 5 45 | 1 29 | 18 39 | 0 32 | 23 36 | 0 11 | 1 5 | 1 22 | 24 53 | 5 53 | 14 27 | 14 15 | 6 6 | 12 22 | 6 35 |
| F 17 | 19 26 | 6 12 | 2 35 | 21 20 | 0 53 | 26 50 | 3 31 | 16 31 | 0 10 | 5 43 | 1 29 | 18 39 | 0 33 | 23 36 | 0 11 | 1 4 | 1 22 | 24 52 | 5 53 | 14 28 | 14 14 | 6 7 | 12 21 | 6 34 |
| S 18 | 19 40 | 10 41 | 1 19 | 21 55 | 1 2 | 26 45 | 3 28 | 16 44 | 0 9 | 5 41 | 1 29 | 18 39 | 0 33 | 23 36 | 0 11 | 1 3 | 1 22 | 24 52 | 5 53 | 14 28 | 14 13 | 6 9 | 12 21 | 6 34 |
| S 19 | 19 53 | 14 32 | 0s 1 | 22 28 | 1 11 | 26 40 | 3 24 | 16 57 | 0 9 | 5 40 | 1 29 | 18 39 | 0 33 | 23 36 | 0 11 | 1 3 | 1 22 | 24 52 | 5 53 | 14 28 | 14 12 | 6 11 | 12 21 | 6 33 |
| M20 | 20 5 | 17 26 | 1 22 | 22 58 | 1 20 | 26 34 | 3 20 | 17 9 | 0 8 | 5 39 | 1 28 | 18 39 | 0 33 | 23 36 | 0 11 | 1 2 | 1 22 | 24 52 | 5 52 | 14 28 | 14 11 | 6 13 | 12 20 | 6 32 |
| T 21 | 20 17 | 19 10 | 2 36 | 23 25 | 1 28 | 26 28 | 3 15 | 17 22 | 0 7 | 5 37 | 1 28 | 18 40 | 0 33 | 23 36 | 0 11 | 1 2 | 1 22 | 24 51 | 5 52 | 14 28 | 14 10 | 6 15 | 12 20 | 6 32 |
| W22 | 20 29 | 19 38 | 3 38 | 23 50 | 1 35 | 26 21 | 3 11 | 17 34 | 0 7 | 5 36 | 1 28 | 18 40 | 0 33 | 23 36 | 0 11 | 1 1 | 1 22 | 24 51 | 5 52 | 14 27 | 14 9 | 6 17 | 12 19 | 6 31 |
| T 23 | 20 41 | 18 53 | 4 26 | 24 12 | 1 42 | 26 15 | 3 5 | 17 47 | 0 6 | 5 35 | 1 28 | 18 40 | 0 33 | 23 36 | 0 11 | 1 1 | 1 22 | 24 51 | 5 52 | 14 26 | 14 8 | 6 19 | 12 19 | 6 30 |
| F 24 | 20 52 | 17 4 | 4 58 | 24 32 | 1 48 | 26 8 | 3 0 | 17 59 | 0 5 | 5 34 | 1 27 | 18 40 | 0 33 | 23 36 | 0 11 | 1 1 | 1 22 | 24 50 | 5 52 | 14 25 | 14 7 | 6 21 | 12 18 | 6 30 |
| S 25 | 21 3 | 14 25 | 5 13 | 24 49 | 1 53 | 26 1 | 2 54 | 18 11 | 0 5 | 5 33 | 1 27 | 18 41 | 0 34 | 23 37 | 0 11 | 1 0 | 1 22 | 24 50 | 5 52 | 14 23 | 14 6 | 6 23 | 12 18 | 6 29 |
| S 26 | 21 13 | 11 9 | 5 12 | 25 3 | 1 57 | 25 53 | 2 48 | 18 22 | 0 4 | 5 31 | 1 27 | 18 41 | 0 34 | 23 37 | 0 11 | 1 0 | 1 22 | 24 50 | 5 52 | 14 23 | 14 5 | 6 25 | 12 17 | 6 28 |
| M27 | 21 23 | 7 29 | 4 56 | 25 15 | 2 1 | 25 45 | 2 41 | 18 34 | 0 3 | 5 31 | 1 27 | 18 41 | 0 34 | 23 37 | 0 11 | 0 59 | 1 22 | 24 49 | 5 52 | 14 22 | 14 4 | 6 26 | 12 17 | 6 28 |
| T 28 | 21 33 | 3 34 | 4 27 | 25 24 | 2 4 | 25 37 | 2 34 | 18 45 | 0 3 | 5 30 | 1 26 | 18 42 | 0 34 | 23 37 | 0 11 | 0 59 | 1 22 | 24 49 | 5 52 | 14 22 | 14 3 | 6 28 | 12 16 | 6 27 |
| W29 | 21 42 | 0s25 | 3 47 | 25 30 | 2 6 | 25 29 | 2 26 | 18 56 | 0 2 | 5 29 | 1 26 | 18 42 | 0 34 | 23 37 | 0 11 | 0 58 | 1 22 | 24 49 | 5 52 | 14 22 | 14 2 | 6 30 | 12 15 | 6 26 |
| T 30 | 21 51 | 4 22 | 2 58 | 25 35 | 2 8 | 25 20 | 2 19 | 19 7 | 0 1 | 5 28 | 1 26 | 18 42 | 0 34 | 23 37 | 0 11 | 0 58 | 1 22 | 24 49 | 5 52 | 14 23 | 14 1 | 6 32 | 12 15 | 6 26 |
| F 31 | 22n 0 | 8s 9 | 2s 1 | 25n37 | 2n 8 | 25n12 | 2n10 | 19n18 | 0s 1 | 5s27 | 1n26 | 18s43 | 0s34 | 23n37 | 0n11 | 0s58 | 1s22 | 24n48 | 5n52 | 14s23 | 14s 0 | 6s34 | 12n14 | 6s25 |

Julian Day Number = 2340997.5, Delta T = 15.26 sec
Ecliptic obliquity = 23°28'36, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'55, Lahiri = 19°37'55Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## JUNE 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 40 41 | 11♊ 2'51 | 27♎48 | 0♋46 | 10♋58 | 26♉50 | 17°R11 | 8°R30 | 26♊33 | 0♈46 | 4♌43 | 8♏37 | 7♏20 | 11♎26 | 7♌30 | S 1 |
| S 2 | 16 44 37 | 12° 0'13 | 9♏47 | 2°24 | 10°R59 | 27°33 | 17♎ 9 | 8♒28 | 26°37 | 0°47 | 4°44 | 8°R38 | 7°17 | 11°32 | 7°35 | S 2 |
| M 3 | 16 48 34 | 12°57'34 | 21°57 | 4° 0 | 10°59 | 28°15 | 17° 8 | 8°27 | 26°40 | 0°48 | 4°45 | 8°37 | 7°14 | 11°39 | 7°41 | M 3 |
| T 4 | 16 52 30 | 13°54'54 | 4♐19 | 5°32 | 10°56 | 28°58 | 17° 6 | 8°25 | 26°44 | 0°49 | 4°47 | 8°35 | 7°10 | 11°46 | 7°47 | T 4 |
| W 5 | 16 56 27 | 14°52'14 | 16°56 | 7° 2 | 10°50 | 29°40 | 17° 4 | 8°24 | 26°47 | 0°50 | 4°48 | 8°30 | 7° 7 | 11°52 | 7°52 | W 5 |
| T 6 | 17 0 23 | 15°49'33 | 29°47 | 8°29 | 10°42 | 0♊23 | 17° 3 | 8°22 | 26°51 | 0°51 | 4°49 | 8°25 | 7° 4 | 11°59 | 7°58 | T 6 |
| F 7 | 17 4 20 | 16°46'51 | 12♑53 | 9°54 | 10°32 | 1° 5 | 17° 2 | 8°20 | 26°54 | 0°52 | 4°50 | 8°19 | 7° 1 | 12° 6 | 8° 4 | F 7 |
| S 8 | 17 8 17 | 17°44'08 | 26°13 | 11°15 | 10°20 | 1°48 | 17° 1 | 8°18 | 26°58 | 0°52 | 4°52 | 8°13 | 6°58 | 12°12 | 8°10 | S 8 |
| S 9 | 17 12 13 | 18°41'25 | 9♒46 | 12°34 | 10° 5 | 2°30 | 17° 0 | 8°16 | 27° 1 | 0°53 | 4°53 | 8° 7 | 6°54 | 12°19 | 8°16 | S 9 |
| M10 | 17 16 10 | 19°38'42 | 23°29 | 13°49 | 9°47 | 3°12 | 16°59 | 8°14 | 27° 5 | 0°54 | 4°54 | 8° 3 | 6°51 | 12°25 | 8°22 | M10 |
| T 11 | 17 20 6 | 20°35'58 | 7♓23 | 15° 2 | 9°28 | 3°54 | 16°59 | 8°12 | 27° 9 | 0°55 | 4°56 | 8° 0 | 6°48 | 12°32 | 8°28 | T 11 |
| W12 | 17 24 3 | 21°33'14 | 21°26 | 16°11 | 9° 6 | 4°37 | 16°59 | 8°10 | 27°12 | 0°55 | 4°57 | 8°D 0 | 6°45 | 12°39 | 8°34 | W12 |
| T 13 | 17 27 59 | 22°30'30 | 5♈36 | 17°17 | 8°42 | 5°19 | 16°D58 | 8° 7 | 27°16 | 0°56 | 4°58 | 8° 0 | 6°42 | 12°45 | 8°40 | T 13 |
| F 14 | 17 31 56 | 23°27'45 | 19°51 | 18°20 | 8°16 | 6° 1 | 16°59 | 8° 5 | 27°19 | 0°57 | 5° 0 | 8° 1 | 6°39 | 12°52 | 8°47 | F 14 |
| S 15 | 17 35 52 | 24°25'00 | 4♉11 | 19°20 | 7°48 | 6°43 | 16°59 | 8° 2 | 27°23 | 0°57 | 5° 1 | 8°R 2 | 6°35 | 12°59 | 8°53 | S 15 |
| S 16 | 17 39 49 | 25°22'15 | 18°32 | 20°17 | 7°18 | 7°25 | 16°59 | 8° 0 | 27°26 | 0°58 | 5° 2 | 8° 2 | 6°32 | 13° 5 | 8°59 | S 16 |
| M17 | 17 43 46 | 26°19'30 | 2♊50 | 21°10 | 6°46 | 8° 7 | 17° 0 | 7°57 | 27°30 | 0°59 | 5° 4 | 7°59 | 6°29 | 13°12 | 9° 6 | M17 |
| T 18 | 17 47 42 | 27°16'45 | 17° 1 | 21°59 | 6°14 | 8°48 | 17° 1 | 7°54 | 27°34 | 0°59 | 5° 5 | 7°55 | 6°26 | 13°19 | 9°12 | T 18 |
| W19 | 17 51 39 | 28°14'00 | 0♋59 | 22°45 | 5°39 | 9°30 | 17° 2 | 7°51 | 27°37 | 1° 0 | 5° 7 | 7°48 | 6°23 | 13°25 | 9°19 | W19 |
| T 20 | 17 55 35 | 29°11'14 | 14°42 | 23°27 | 5° 4 | 10°12 | 17° 3 | 7°48 | 27°41 | 1° 0 | 5° 8 | 7°40 | 6°20 | 13°32 | 9°25 | T 20 |
| F 21 | 17 59 32 | 0♌ 8'27 | 28° 5 | 24° 5 | 4°28 | 10°54 | 17° 4 | 7°45 | 27°44 | 1° 0 | 5°10 | 7°32 | 6°16 | 13°39 | 9°32 | F 21 |
| S 22 | 18 3 28 | 1° 5'40 | 11♌ 8 | 24°39 | 3°51 | 11°35 | 17° 6 | 7°42 | 27°48 | 1° 1 | 5°11 | 7°23 | 6°13 | 13°45 | 9°39 | S 22 |
| S 23 | 18 7 25 | 2° 2'53 | 23°50 | 25° 9 | 3°14 | 12°17 | 17° 7 | 7°39 | 27°52 | 1° 1 | 5°13 | 7°16 | 6°10 | 13°52 | 9°45 | S 23 |
| M24 | 18 11 22 | 3° 0'06 | 6♍13 | 25°34 | 2°36 | 12°58 | 17° 9 | 7°36 | 27°55 | 1° 1 | 5°14 | 7°10 | 6° 7 | 13°59 | 9°52 | M24 |
| T 25 | 18 15 18 | 3°57'17 | 18°21 | 25°56 | 1°59 | 13°40 | 17°11 | 7°33 | 27°59 | 1° 2 | 5°16 | 7° 7 | 6° 4 | 14° 5 | 9°59 | T 25 |
| W26 | 18 19 15 | 4°54'29 | 0♎17 | 26°13 | 1°21 | 14°21 | 17°14 | 7°29 | 28° 2 | 1° 2 | 5°17 | 7°D 6 | 6° 0 | 14°12 | 10° 6 | W26 |
| T 27 | 18 23 11 | 5°51'40 | 12° 7 | 26°25 | 0°45 | 15° 3 | 17°16 | 7°26 | 28° 6 | 1° 2 | 5°19 | 7° 6 | 5°57 | 14°19 | 10°13 | T 27 |
| F 28 | 18 27 8 | 6°48'51 | 23°57 | 26°33 | 0° 9 | 15°44 | 17°18 | 7°23 | 28°10 | 1° 2 | 5°20 | 7° 6 | 5°54 | 14°25 | 10°20 | F 28 |
| S 29 | 18 31 4 | 7°46'02 | 5♏51 | 26°R36 | 29♊34 | 16°25 | 17°21 | 7°19 | 28°13 | 1° 3 | 5°22 | 7°R 7 | 5°51 | 14°32 | 10°27 | S 29 |
| S 30 | 18 35 1 | 8♋43'12 | 17♏54 | 26♋34 | 29♊ 0 | 17♊ 6 | 17♎24 | 7♒16 | 28♊17 | 1♈ 3 | 5♌24 | 7♏ 6 | 5♏48 | 14♎39 | 10♌34 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 8 | 11s38 | 0s59 | 25n37 | 2n 8 | 25n 3 | 2n 2 | 19n29 | 0s 0 | 5s27 | 1n25 | 18s43 | 0s35 | 23n37 | 0n11 | 0s57 | 1s22 | 24n48 | 5n52 | 14s24 | 13s59 | 6s36 | 12n13 | 6s25 |
| S 2 | 22 16 | 14 40 | 0n 6 | 25 35 | 2 7 | 24 53 | 1 52 | 19 39 | 0n 1 | 5 26 | 1 25 | 18 44 | 0 35 | 23 37 | 0 11 | 0 57 | 1 22 | 24 47 | 5 52 | 14 24 | 13 58 | 6 38 | 12 13 | 6 24 |
| M 3 | 22 23 | 17 7 | 1 12 | 25 31 | 2 6 | 24 44 | 1 43 | 19 49 | 0 1 | 5 26 | 1 25 | 18 44 | 0 35 | 23 37 | 0 11 | 0 57 | 1 22 | 24 47 | 5 52 | 14 24 | 13 57 | 6 40 | 12 12 | 6 23 |
| T 4 | 22 30 | 18 49 | 2 16 | 25 25 | 2 3 | 24 34 | 1 33 | 19 59 | 0 2 | 5 25 | 1 25 | 18 45 | 0 35 | 23 38 | 0 11 | 0 56 | 1 22 | 24 47 | 5 52 | 14 23 | 13 56 | 6 42 | 12 11 | 6 23 |
| W 5 | 22 37 | 19 37 | 3 14 | 25 17 | 2 0 | 24 24 | 1 22 | 20 9 | 0 3 | 5 25 | 1 24 | 18 45 | 0 35 | 23 38 | 0 11 | 0 56 | 1 23 | 24 46 | 5 52 | 14 22 | 13 55 | 6 43 | 12 10 | 6 22 |
| T 6 | 22 43 | 19 26 | 4 3 | 25 8 | 1 56 | 24 14 | 1 12 | 20 19 | 0 3 | 5 25 | 1 24 | 18 46 | 0 35 | 23 38 | 0 11 | 0 56 | 1 23 | 24 46 | 5 51 | 14 20 | 13 54 | 6 45 | 12 9 | 6 22 |
| F 7 | 22 49 | 18 12 | 4 40 | 24 58 | 1 52 | 24 4 | 1 0 | 20 28 | 0 4 | 5 25 | 1 24 | 18 47 | 0 35 | 23 38 | 0 11 | 0 55 | 1 23 | 24 46 | 5 51 | 14 18 | 13 53 | 6 47 | 12 8 | 6 21 |
| S 8 | 22 55 | 15 58 | 5 3 | 24 46 | 1 46 | 23 53 | 0 49 | 20 38 | 0 4 | 5 24 | 1 24 | 18 47 | 0 35 | 23 38 | 0 11 | 0 55 | 1 23 | 24 45 | 5 51 | 14 16 | 13 52 | 6 49 | 12 7 | 6 20 |
| S 9 | 23 0 | 12 51 | 5 10 | 24 33 | 1 40 | 23 42 | 0 37 | 20 47 | 0 5 | 5 24 | 1 23 | 18 48 | 0 36 | 23 38 | 0 11 | 0 55 | 1 23 | 24 45 | 5 51 | 14 14 | 13 50 | 6 51 | 12 6 | 6 20 |
| M10 | 23 4 | 9 0 | 4 59 | 24 19 | 1 34 | 23 31 | 0 24 | 20 55 | 0 6 | 5 24 | 1 23 | 18 49 | 0 36 | 23 38 | 0 11 | 0 54 | 1 23 | 24 45 | 5 51 | 14 13 | 13 49 | 6 53 | 12 5 | 6 19 |
| T 11 | 23 9 | 4 37 | 4 30 | 24 3 | 1 26 | 23 20 | 0 11 | 21 4 | 0 6 | 5 24 | 1 23 | 18 49 | 0 36 | 23 38 | 0 11 | 0 54 | 1 23 | 24 44 | 5 51 | 14 12 | 13 48 | 6 55 | 12 4 | 6 19 |
| W12 | 23 12 | 0n 3 | 3 46 | 23 47 | 1 18 | 23 8 | 0s 2 | 21 13 | 0 7 | 5 25 | 1 23 | 18 50 | 0 36 | 23 38 | 0 11 | 0 54 | 1 23 | 24 44 | 5 51 | 14 12 | 13 47 | 6 57 | 12 3 | 6 18 |
| T 13 | 23 16 | 4 46 | 2 47 | 23 30 | 1 9 | 22 56 | 0 15 | 21 21 | 0 8 | 5 25 | 1 22 | 18 51 | 0 36 | 23 38 | 0 11 | 0 54 | 1 23 | 24 44 | 5 51 | 14 12 | 13 46 | 6 58 | 12 2 | 6 18 |
| F 14 | 23 19 | 9 16 | 1 37 | 23 13 | 1 0 | 22 45 | 0 29 | 21 29 | 0 8 | 5 25 | 1 22 | 18 52 | 0 36 | 23 38 | 0 11 | 0 54 | 1 23 | 24 43 | 5 51 | 14 12 | 13 45 | 7 0 | 12 1 | 6 17 |
| S 15 | 23 22 | 13 16 | 0 21 | 22 54 | 0 50 | 22 32 | 0 42 | 21 37 | 0 9 | 5 25 | 1 22 | 18 52 | 0 36 | 23 39 | 0 11 | 0 53 | 1 23 | 24 43 | 5 51 | 14 13 | 13 44 | 7 2 | 12 0 | 6 17 |
| S 16 | 23 24 | 16 28 | 0s56 | 22 35 | 0 39 | 22 20 | 0 56 | 21 44 | 0 10 | 5 26 | 1 21 | 18 53 | 0 37 | 23 39 | 0 11 | 0 53 | 1 23 | 24 42 | 5 51 | 14 12 | 13 43 | 7 4 | 11 59 | 6 16 |
| M17 | 23 26 | 18 38 | 2 10 | 22 16 | 0 28 | 22 8 | 1 11 | 21 52 | 0 10 | 5 26 | 1 21 | 18 54 | 0 37 | 23 39 | 0 12 | 0 53 | 1 23 | 24 42 | 5 51 | 14 12 | 13 42 | 7 6 | 11 58 | 6 16 |
| T 18 | 23 27 | 19 37 | 3 14 | 21 57 | 0 16 | 21 55 | 1 25 | 21 59 | 0 11 | 5 27 | 1 21 | 18 55 | 0 37 | 23 39 | 0 12 | 0 53 | 1 23 | 24 42 | 5 51 | 14 10 | 13 41 | 7 8 | 11 57 | 6 15 |
| W19 | 23 28 | 19 22 | 4 6 | 21 37 | 0 4 | 21 42 | 1 39 | 22 6 | 0 12 | 5 28 | 1 21 | 18 56 | 0 37 | 23 39 | 0 12 | 0 53 | 1 23 | 24 41 | 5 51 | 14 8 | 13 40 | 7 10 | 11 55 | 6 15 |
| T 20 | 23 28 | 17 59 | 4 43 | 21 17 | 0s 9 | 21 30 | 1 53 | 22 13 | 0 12 | 5 28 | 1 20 | 18 57 | 0 37 | 23 39 | 0 12 | 0 53 | 1 23 | 24 41 | 5 51 | 14 5 | 13 39 | 7 11 | 11 54 | 6 14 |
| F 21 | 23 29 | 15 38 | 5 2 | 20 58 | 0 22 | 21 17 | 2 7 | 22 20 | 0 13 | 5 29 | 1 20 | 18 57 | 0 37 | 23 39 | 0 12 | 0 52 | 1 23 | 24 40 | 5 51 | 14 3 | 13 38 | 7 13 | 11 53 | 6 14 |
| S 22 | 23 28 | 12 33 | 5 6 | 20 38 | 0 36 | 21 4 | 2 21 | 22 26 | 0 14 | 5 30 | 1 20 | 18 58 | 0 37 | 23 39 | 0 12 | 0 52 | 1 23 | 24 40 | 5 51 | 14 0 | 13 37 | 7 15 | 11 52 | 6 13 |
| S 23 | 23 28 | 8 58 | 4 54 | 20 19 | 0 50 | 20 51 | 2 35 | 22 32 | 0 14 | 5 31 | 1 19 | 18 59 | 0 37 | 23 39 | 0 12 | 0 52 | 1 23 | 24 40 | 5 51 | 13 57 | 13 36 | 7 17 | 11 50 | 6 13 |
| M24 | 23 27 | 5 5 | 4 28 | 20 0 | 1 5 | 20 39 | 2 48 | 22 38 | 0 15 | 5 32 | 1 19 | 19 0 | 0 38 | 23 39 | 0 12 | 0 52 | 1 24 | 24 39 | 5 51 | 13 56 | 13 35 | 7 19 | 11 49 | 6 12 |
| T 25 | 23 25 | 1 4 | 3 51 | 19 41 | 1 20 | 20 26 | 3 1 | 22 44 | 0 16 | 5 33 | 1 19 | 19 1 | 0 38 | 23 39 | 0 12 | 0 52 | 1 24 | 24 39 | 5 51 | 13 55 | 13 34 | 7 21 | 11 48 | 6 12 |
| W26 | 23 23 | 2s56 | 3 4 | 19 23 | 1 35 | 20 14 | 3 14 | 22 49 | 0 16 | 5 34 | 1 19 | 19 2 | 0 38 | 23 39 | 0 12 | 0 52 | 1 24 | 24 38 | 5 51 | 13 54 | 13 33 | 7 22 | 11 46 | 6 11 |
| T 27 | 23 21 | 6 48 | 2 10 | 19 6 | 1 51 | 20 2 | 3 27 | 22 55 | 0 17 | 5 35 | 1 18 | 19 3 | 0 38 | 23 39 | 0 12 | 0 52 | 1 24 | 24 38 | 5 51 | 13 54 | 13 32 | 7 24 | 11 45 | 6 11 |
| F 28 | 23 18 | 10 23 | 1 10 | 18 49 | 2 6 | 19 50 | 3 38 | 23 0 | 0 17 | 5 36 | 1 18 | 19 4 | 0 38 | 23 39 | 0 12 | 0 52 | 1 24 | 24 38 | 5 51 | 13 54 | 13 31 | 7 26 | 11 44 | 6 11 |
| S 29 | 23 15 | 13 36 | 0 7 | 18 33 | 2 22 | 19 39 | 3 50 | 23 5 | 0 18 | 5 38 | 1 18 | 19 5 | 0 38 | 23 39 | 0 12 | 0 52 | 1 24 | 24 37 | 5 51 | 13 55 | 13 29 | 7 28 | 11 42 | 6 10 |
| S 30 | 23n11 | 16s16 | 0n57 | 18n18 | 2s37 | 19n28 | 4s 1 | 23n10 | 0n19 | 5s39 | 1n18 | 19s 6 | 0s38 | 23n40 | 0n12 | 0s52 | 1s24 | 24n37 | 5n51 | 13s54 | 13s28 | 7s30 | 11n41 | 6s10 |

Julian Day Number = 2341028.5, Delta T = 15.23 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°30'59, Lahiri = 19°38'00Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## JULY 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 18 38 57 | 9♋40'22 | 0♐10 | 26°R28 | 28°R28 | 17♊47 | 17♎27 | 7°R12 | 28♊20 | 1♈ 3 | 5♌25 | 7°R 4 | 5♏45 | 14♎45 | 10♌41 | M 1 |
| T 2 | 18 42 54 | 10°37'32 | 12°43 | 26♋17 | 27♊57 | 18°28 | 17°30 | 7♒ 8 | 28°24 | 1° 3 | 5°27 | 6♏59 | 5°41 | 14°52 | 10°48 | T 2 |
| W 3 | 18 46 51 | 11°34'43 | 25°36 | 26° 1 | 27°28 | 19° 9 | 17°34 | 7° 4 | 28°27 | 1°R 3 | 5°28 | 6°52 | 5°38 | 14°59 | 10°55 | W 3 |
| T 4 | 18 50 47 | 12°31'53 | 8♑47 | 25°42 | 27° 0 | 19°50 | 17°37 | 7° 1 | 28°31 | 1° 3 | 5°30 | 6°43 | 5°35 | 15° 5 | 11° 3 | T 4 |
| F 5 | 18 54 44 | 13°29'03 | 22°17 | 25°18 | 26°35 | 20°31 | 17°41 | 6°57 | 28°34 | 1° 3 | 5°32 | 6°32 | 5°32 | 15°12 | 11°10 | F 5 |
| S 6 | 18 58 40 | 14°26'14 | 6♒ 2 | 24°50 | 26°12 | 21°12 | 17°45 | 6°53 | 28°38 | 1° 3 | 5°33 | 6°22 | 5°29 | 15°19 | 11°17 | S 6 |
| S 7 | 19 2 37 | 15°23'25 | 20° 0 | 24°19 | 25°51 | 21°53 | 17°49 | 6°49 | 28°41 | 1° 3 | 5°35 | 6°12 | 5°26 | 15°25 | 11°25 | S 7 |
| M 8 | 19 6 33 | 16°20'36 | 4♓ 5 | 23°45 | 25°32 | 22°34 | 17°53 | 6°45 | 28°45 | 1° 3 | 5°37 | 6° 4 | 5°22 | 15°32 | 11°32 | M 8 |
| T 9 | 19 10 30 | 17°17'48 | 18°14 | 23° 9 | 25°16 | 23°15 | 17°58 | 6°41 | 28°48 | 1° 2 | 5°38 | 5°59 | 5°19 | 15°39 | 11°39 | T 9 |
| W10 | 19 14 26 | 18°15'00 | 2♈25 | 22°31 | 25° 2 | 23°55 | 18° 2 | 6°37 | 28°52 | 1° 2 | 5°40 | 5°56 | 5°16 | 15°45 | 11°47 | W10 |
| T 11 | 19 18 23 | 19°12'13 | 16°35 | 21°51 | 24°50 | 24°36 | 18° 7 | 6°33 | 28°55 | 1° 2 | 5°42 | 5°D55 | 5°13 | 15°52 | 11°54 | T 11 |
| F 12 | 19 22 20 | 20° 9'27 | 0♉42 | 21°11 | 24°41 | 25°16 | 18°12 | 6°29 | 28°59 | 1° 2 | 5°43 | 5°R56 | 5°10 | 15°58 | 12° 2 | F 12 |
| S 13 | 19 26 16 | 21° 6'41 | 14°45 | 20°31 | 24°34 | 25°57 | 18°17 | 6°24 | 29° 2 | 1° 1 | 5°45 | 5°55 | 5° 6 | 16° 5 | 12° 9 | S 13 |
| S 14 | 19 30 13 | 22° 3'56 | 28°45 | 19°51 | 24°30 | 26°37 | 18°22 | 6°20 | 29° 5 | 1° 1 | 5°47 | 5°54 | 5° 3 | 16°12 | 12°17 | S 14 |
| M15 | 19 34 9 | 23° 1'13 | 12♊38 | 19°13 | 24°D28 | 27°18 | 18°27 | 6°16 | 29° 9 | 1° 1 | 5°49 | 5°50 | 5° 0 | 16°18 | 12°25 | M15 |
| T 16 | 19 38 6 | 23°58'29 | 26°24 | 18°38 | 24°28 | 27°58 | 18°33 | 6°12 | 29°12 | 1° 0 | 5°50 | 5°43 | 4°57 | 16°25 | 12°32 | T 16 |
| W17 | 19 42 2 | 24°55'47 | 9♋59 | 18° 5 | 24°31 | 28°39 | 18°38 | 6° 7 | 29°15 | 1° 0 | 5°52 | 5°34 | 4°54 | 16°32 | 12°40 | W17 |
| T 18 | 19 45 59 | 25°53'05 | 23°22 | 17°35 | 24°36 | 29°19 | 18°44 | 6° 3 | 29°19 | 0°59 | 5°54 | 5°22 | 4°51 | 16°38 | 12°47 | T 18 |
| F 19 | 19 49 55 | 26°50'24 | 6♌29 | 17°10 | 24°43 | 29°59 | 18°50 | 5°59 | 29°22 | 0°59 | 5°56 | 5°10 | 4°47 | 16°45 | 12°55 | F 19 |
| S 20 | 19 53 52 | 27°47'43 | 19°21 | 16°49 | 24°52 | 0♋39 | 18°56 | 5°54 | 29°25 | 0°58 | 5°57 | 4°57 | 4°44 | 16°52 | 13° 3 | S 20 |
| S 21 | 19 57 49 | 28°45'03 | 1♍55 | 16°33 | 25° 3 | 1°19 | 19° 2 | 5°50 | 29°29 | 0°58 | 5°59 | 4°46 | 4°41 | 16°58 | 13°11 | S 21 |
| M22 | 20 1 45 | 29°42'23 | 14°13 | 16°22 | 25°17 | 1°59 | 19° 8 | 5°45 | 29°32 | 0°57 | 6° 1 | 4°38 | 4°38 | 17° 5 | 13°18 | M22 |
| T 23 | 20 5 42 | 0♌39'44 | 26°18 | 16°D17 | 25°32 | 2°39 | 19°15 | 5°41 | 29°35 | 0°57 | 6° 3 | 4°31 | 4°35 | 17°12 | 13°26 | T 23 |
| W24 | 20 9 38 | 1°37'05 | 8♎13 | 16°18 | 25°49 | 3°19 | 19°21 | 5°36 | 29°38 | 0°56 | 6° 4 | 4°28 | 4°31 | 17°18 | 13°34 | W24 |
| T 25 | 20 13 35 | 2°34'27 | 20° 2 | 16°25 | 26° 8 | 3°59 | 19°28 | 5°32 | 29°41 | 0°55 | 6° 6 | 4°26 | 4°28 | 17°25 | 13°42 | T 25 |
| F 26 | 20 17 31 | 3°31'50 | 1♏51 | 16°38 | 26°29 | 4°39 | 19°35 | 5°28 | 29°45 | 0°55 | 6° 8 | 4°26 | 4°25 | 17°32 | 13°50 | F 26 |
| S 27 | 20 21 28 | 4°29'13 | 13°44 | 16°58 | 26°52 | 5°19 | 19°42 | 5°23 | 29°48 | 0°54 | 6°10 | 4°26 | 4°22 | 17°38 | 13°57 | S 27 |
| S 28 | 20 25 24 | 5°26'37 | 25°48 | 17°23 | 27°16 | 5°59 | 19°49 | 5°19 | 29°51 | 0°53 | 6°11 | 4°25 | 4°19 | 17°45 | 14° 5 | S 28 |
| M29 | 20 29 21 | 6°24'02 | 8♐ 8 | 17°56 | 27°42 | 6°38 | 19°56 | 5°14 | 29°54 | 0°53 | 6°13 | 4°22 | 4°16 | 17°52 | 14°13 | M29 |
| T 30 | 20 33 18 | 7°21'27 | 20°47 | 18°34 | 28° 9 | 7°18 | 20° 4 | 5°10 | 29°57 | 0°52 | 6°15 | 4°17 | 4°12 | 17°58 | 14°21 | T 30 |
| W31 | 20 37 14 | 8♌18'53 | 3♑49 | 19♋19 | 28♊38 | 7♋57 | 20♎11 | 5♒ 5 | 29♊59 | 0♈51 | 6♌17 | 4♏ 9 | 4♏ 9 | 18♎ 5 | 14♌29 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 23n 7 | 18s16 | 2n 0 | 18n 4 | 2s52 | 19n17 | 4s11 | 23n14 | 0n19 | 5s40 | 1n17 | 19s 7 | 0s38 | 23n40 | 0n12 | 0s52 | 1s24 | 24n36 | 5n51 | 13s54 | 13s27 | 7s32 | 11n39 | 6s 9 |
| T 2 | 23 3 | 19 25 | 2 58 | 17 52 | 3 7 | 19 7 | 4 21 | 23 18 | 0 20 | 5 42 | 1 17 | 19 8 | 0 39 | 23 40 | 0 12 | 0 52 | 1 24 | 24 36 | 5 51 | 13 52 | 13 26 | 7 33 | 11 38 | 6 9 |
| W 3 | 22 58 | 19 36 | 3 49 | 17 40 | 3 22 | 18 57 | 4 30 | 23 23 | 0 21 | 5 43 | 1 17 | 19 9 | 0 39 | 23 40 | 0 12 | 0 52 | 1 24 | 24 36 | 5 51 | 13 50 | 13 25 | 7 35 | 11 36 | 6 9 |
| T 4 | 22 53 | 18 44 | 4 28 | 17 30 | 3 36 | 18 48 | 4 38 | 23 26 | 0 21 | 5 45 | 1 17 | 19 10 | 0 39 | 23 40 | 0 12 | 0 52 | 1 24 | 24 35 | 5 51 | 13 47 | 13 24 | 7 37 | 11 34 | 6 8 |
| F 5 | 22 48 | 16 48 | 4 54 | 17 21 | 3 49 | 18 40 | 4 46 | 23 30 | 0 22 | 5 47 | 1 16 | 19 11 | 0 39 | 23 40 | 0 12 | 0 52 | 1 24 | 24 35 | 5 51 | 13 43 | 13 23 | 7 39 | 11 33 | 6 8 |
| S 6 | 22 42 | 13 54 | 5 3 | 17 14 | 4 2 | 18 32 | 4 54 | 23 34 | 0 23 | 5 48 | 1 16 | 19 13 | 0 39 | 23 40 | 0 12 | 0 52 | 1 24 | 24 34 | 5 51 | 13 40 | 13 22 | 7 41 | 11 31 | 6 8 |
| S 7 | 22 35 | 10 11 | 4 54 | 17 8 | 4 13 | 18 24 | 5 0 | 23 37 | 0 23 | 5 50 | 1 16 | 19 14 | 0 39 | 23 40 | 0 12 | 0 52 | 1 24 | 24 34 | 5 51 | 13 37 | 13 21 | 7 42 | 11 30 | 6 7 |
| M 8 | 22 28 | 5 52 | 4 28 | 17 3 | 4 24 | 18 18 | 5 6 | 23 40 | 0 24 | 5 52 | 1 15 | 19 15 | 0 39 | 23 40 | 0 12 | 0 52 | 1 24 | 24 34 | 5 51 | 13 34 | 13 20 | 7 44 | 11 28 | 6 7 |
| T 9 | 22 21 | 1 12 | 3 45 | 17 0 | 4 33 | 18 12 | 5 12 | 23 43 | 0 25 | 5 54 | 1 15 | 19 16 | 0 39 | 23 40 | 0 12 | 0 53 | 1 24 | 24 33 | 5 51 | 13 32 | 13 19 | 7 46 | 11 26 | 6 7 |
| W10 | 22 14 | 3n32 | 2 48 | 16 59 | 4 40 | 18 6 | 5 17 | 23 45 | 0 25 | 5 56 | 1 15 | 19 17 | 0 39 | 23 40 | 0 12 | 0 53 | 1 24 | 24 33 | 5 51 | 13 31 | 13 18 | 7 48 | 11 25 | 6 6 |
| T 11 | 22 6 | 8 5 | 1 41 | 16 59 | 4 46 | 18 1 | 5 21 | 23 48 | 0 26 | 5 58 | 1 15 | 19 18 | 0 40 | 23 40 | 0 12 | 0 53 | 1 24 | 24 32 | 5 51 | 13 31 | 13 17 | 7 50 | 11 23 | 6 6 |
| F 12 | 21 58 | 12 10 | 0 28 | 17 1 | 4 51 | 17 57 | 5 25 | 23 50 | 0 26 | 6 0 | 1 14 | 19 19 | 0 40 | 23 40 | 0 12 | 0 53 | 1 25 | 24 32 | 5 51 | 13 31 | 13 16 | 7 51 | 11 21 | 6 6 |
| S 13 | 21 49 | 15 33 | 0s47 | 17 4 | 4 54 | 17 54 | 5 28 | 23 52 | 0 27 | 6 2 | 1 14 | 19 21 | 0 40 | 23 40 | 0 12 | 0 53 | 1 25 | 24 32 | 5 51 | 13 31 | 13 15 | 7 53 | 11 19 | 6 5 |
| S 14 | 21 40 | 18 0 | 1 58 | 17 8 | 4 55 | 17 51 | 5 31 | 23 54 | 0 28 | 6 4 | 1 14 | 19 22 | 0 40 | 23 40 | 0 12 | 0 53 | 1 25 | 24 31 | 5 51 | 13 30 | 13 14 | 7 55 | 11 18 | 6 5 |
| M15 | 21 31 | 19 21 | 3 1 | 17 14 | 4 55 | 17 48 | 5 33 | 23 55 | 0 28 | 6 6 | 1 14 | 19 23 | 0 40 | 23 40 | 0 12 | 0 53 | 1 25 | 24 31 | 5 51 | 13 29 | 13 13 | 7 57 | 11 16 | 6 5 |
| T 16 | 21 21 | 19 32 | 3 54 | 17 21 | 4 52 | 17 47 | 5 35 | 23 57 | 0 29 | 6 9 | 1 13 | 19 24 | 0 40 | 23 40 | 0 12 | 0 54 | 1 25 | 24 30 | 5 51 | 13 27 | 13 11 | 7 59 | 11 14 | 6 5 |
| W17 | 21 11 | 18 35 | 4 32 | 17 29 | 4 49 | 17 45 | 5 37 | 23 58 | 0 30 | 6 11 | 1 13 | 19 25 | 0 40 | 23 40 | 0 12 | 0 54 | 1 25 | 24 30 | 5 51 | 13 24 | 13 10 | 8 0 | 11 12 | 6 4 |
| T 18 | 21 0 | 16 37 | 4 54 | 17 38 | 4 43 | 17 45 | 5 38 | 23 59 | 0 30 | 6 14 | 1 13 | 19 26 | 0 40 | 23 40 | 0 12 | 0 54 | 1 25 | 24 30 | 5 51 | 13 20 | 13 9 | 8 2 | 11 10 | 6 4 |
| F 19 | 20 49 | 13 49 | 5 1 | 17 48 | 4 36 | 17 44 | 5 38 | 24 0 | 0 31 | 6 16 | 1 13 | 19 28 | 0 40 | 23 40 | 0 12 | 0 54 | 1 25 | 24 29 | 5 51 | 13 16 | 13 8 | 8 4 | 11 8 | 6 4 |
| S 20 | 20 38 | 10 25 | 4 52 | 17 59 | 4 28 | 17 45 | 5 38 | 24 0 | 0 32 | 6 18 | 1 12 | 19 29 | 0 40 | 23 40 | 0 12 | 0 55 | 1 25 | 24 29 | 5 51 | 13 12 | 13 7 | 8 6 | 11 7 | 6 3 |
| S 21 | 20 27 | 6 38 | 4 28 | 18 11 | 4 18 | 17 45 | 5 38 | 24 0 | 0 32 | 6 21 | 1 12 | 19 30 | 0 41 | 23 40 | 0 12 | 0 55 | 1 25 | 24 28 | 5 51 | 13 8 | 13 6 | 8 8 | 11 5 | 6 3 |
| M22 | 20 15 | 2 38 | 3 53 | 18 23 | 4 7 | 17 46 | 5 38 | 24 1 | 0 33 | 6 24 | 1 12 | 19 31 | 0 41 | 23 40 | 0 12 | 0 55 | 1 25 | 24 28 | 5 51 | 13 5 | 13 5 | 8 9 | 11 3 | 6 3 |
| T 23 | 20 2 | 1s24 | 3 7 | 18 35 | 3 55 | 17 48 | 5 37 | 24 0 | 0 33 | 6 26 | 1 12 | 19 32 | 0 41 | 23 40 | 0 12 | 0 55 | 1 25 | 24 28 | 5 51 | 13 3 | 13 4 | 8 11 | 11 1 | 6 3 |
| W24 | 19 50 | 5 19 | 2 14 | 18 48 | 3 42 | 17 49 | 5 35 | 24 0 | 0 34 | 6 29 | 1 12 | 19 33 | 0 41 | 23 40 | 0 12 | 0 56 | 1 25 | 24 27 | 5 52 | 13 2 | 13 3 | 8 13 | 10 59 | 6 3 |
| T 25 | 19 37 | 9 1 | 1 16 | 19 1 | 3 29 | 17 51 | 5 34 | 24 0 | 0 35 | 6 32 | 1 11 | 19 35 | 0 41 | 23 41 | 0 12 | 0 56 | 1 25 | 24 27 | 5 52 | 13 1 | 13 2 | 8 15 | 10 57 | 6 2 |
| F 26 | 19 24 | 12 21 | 0 14 | 19 13 | 3 14 | 17 54 | 5 32 | 23 59 | 0 35 | 6 35 | 1 11 | 19 36 | 0 41 | 23 41 | 0 12 | 0 56 | 1 25 | 24 26 | 5 52 | 13 1 | 13 1 | 8 16 | 10 55 | 6 2 |
| S 27 | 19 10 | 15 12 | 0n49 | 19 26 | 3 0 | 17 56 | 5 30 | 23 58 | 0 36 | 6 37 | 1 11 | 19 37 | 0 41 | 23 41 | 0 12 | 0 57 | 1 25 | 24 26 | 5 52 | 13 1 | 13 0 | 8 18 | 10 53 | 6 2 |
| S 28 | 18 56 | 17 27 | 1 51 | 19 38 | 2 44 | 17 59 | 5 28 | 23 57 | 0 37 | 6 40 | 1 11 | 19 38 | 0 41 | 23 41 | 0 12 | 0 57 | 1 25 | 24 26 | 5 52 | 13 1 | 12 59 | 8 20 | 10 51 | 6 2 |
| M29 | 18 42 | 18 56 | 2 48 | 19 49 | 2 29 | 18 2 | 5 25 | 23 56 | 0 37 | 6 43 | 1 10 | 19 39 | 0 41 | 23 41 | 0 12 | 0 57 | 1 25 | 24 25 | 5 52 | 13 0 | 12 58 | 8 22 | 10 49 | 6 2 |
| T 30 | 18 28 | 19 31 | 3 39 | 20 0 | 2 13 | 18 5 | 5 23 | 23 54 | 0 38 | 6 46 | 1 10 | 19 41 | 0 41 | 23 41 | 0 12 | 0 58 | 1 25 | 24 25 | 5 52 | 12 58 | 12 57 | 8 24 | 10 47 | 6 2 |
| W31 | 18n13 | 19s 5 | 4n20 | 20n 9 | 1s57 | 18n 9 | 5s20 | 23n53 | 0n39 | 6s49 | 1n10 | 19s42 | 0s41 | 23n41 | 0n12 | 0s58 | 1s25 | 24n24 | 5n52 | 12s55 | 12s55 | 8s25 | 10n45 | 6s 1 |

Julian Day Number = 2341058.5, Delta T = 15.20 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'03, Lahiri = 19°38'04Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## AUGUST 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 20 41 11 | 9♌16'20 | 17♉15 | 20♋10 | 29♊ 9 | 8♋37 | 20♎19 | 5°R 1 | 0♋ 3 | 0°R50 | 6♌18 | 3°R59 | 4♏ 6 | 18♎12 | 14♌37 | T 1 |
| F 2 | 20 45 7 | 10°13'48 | 1♒ 4 | 21° 7 | 29°40 | 9°16 | 20°27 | 4♒56 | 0° 6 | 0♈49 | 6°20 | 3♏48 | 4° 3 | 18°18 | 14°45 | F 2 |
| S 3 | 20 49 4 | 11°11'17 | 15°13 | 22°10 | 0♋14 | 9°56 | 20°34 | 4°52 | 0° 9 | 0°48 | 6°22 | 3°36 | 4° 0 | 18°25 | 14°53 | S 3 |
| S 4 | 20 53 0 | 12° 8'47 | 29°36 | 23°19 | 0°48 | 10°35 | 20°42 | 4°48 | 0°12 | 0°47 | 6°24 | 3°26 | 3°57 | 18°31 | 15° 1 | S 4 |
| M 5 | 20 56 57 | 13° 6'18 | 14♓ 7 | 24°33 | 1°24 | 11°15 | 20°51 | 4°43 | 0°14 | 0°46 | 6°25 | 3°17 | 3°53 | 18°38 | 15° 9 | M 5 |
| T 6 | 21 0 53 | 14° 3'50 | 28°39 | 25°53 | 2° 1 | 11°54 | 20°59 | 4°39 | 0°17 | 0°45 | 6°27 | 3°11 | 3°50 | 18°45 | 15°17 | T 6 |
| W 7 | 21 4 50 | 15° 1'24 | 13♈ 7 | 27°19 | 2°39 | 12°33 | 21° 7 | 4°34 | 0°20 | 0°44 | 6°29 | 3° 8 | 3°47 | 18°51 | 15°24 | W 7 |
| T 8 | 21 8 47 | 15°58'59 | 27°28 | 28°49 | 3°19 | 13°12 | 21°16 | 4°30 | 0°23 | 0°43 | 6°31 | 3°D 7 | 3°44 | 18°58 | 15°32 | T 8 |
| F 9 | 21 12 43 | 16°56'36 | 11♉38 | 0♌23 | 3°59 | 13°51 | 21°24 | 4°26 | 0°26 | 0°42 | 6°32 | 3°R 7 | 3°41 | 19° 5 | 15°40 | F 9 |
| S 10 | 21 16 40 | 17°54'14 | 25°36 | 2° 2 | 4°41 | 14°31 | 21°33 | 4°22 | 0°28 | 0°41 | 6°34 | 3° 7 | 3°37 | 19°11 | 15°48 | S 10 |
| S 11 | 21 20 36 | 18°51'54 | 9♊23 | 3°45 | 5°23 | 15°10 | 21°42 | 4°17 | 0°31 | 0°40 | 6°36 | 3° 5 | 3°34 | 19°18 | 15°56 | S 11 |
| M12 | 21 24 33 | 19°49'36 | 22°58 | 5°31 | 6° 7 | 15°49 | 21°51 | 4°13 | 0°34 | 0°39 | 6°38 | 3° 1 | 3°31 | 19°25 | 16° 4 | M12 |
| T 13 | 21 28 29 | 20°47'19 | 6♋22 | 7°20 | 6°51 | 16°28 | 22° 0 | 4° 9 | 0°36 | 0°38 | 6°39 | 2°55 | 3°28 | 19°31 | 16°12 | T 13 |
| W14 | 21 32 26 | 21°45'04 | 19°34 | 9°12 | 7°36 | 17° 6 | 22° 9 | 4° 5 | 0°39 | 0°36 | 6°41 | 2°46 | 3°25 | 19°38 | 16°20 | W14 |
| T 15 | 21 36 22 | 22°42'50 | 2♌35 | 11° 6 | 8°23 | 17°45 | 22°18 | 4° 1 | 0°41 | 0°35 | 6°43 | 2°35 | 3°22 | 19°45 | 16°28 | T 15 |
| F 16 | 21 40 19 | 23°40'38 | 15°23 | 13° 2 | 9°10 | 18°24 | 22°27 | 3°57 | 0°44 | 0°34 | 6°45 | 2°23 | 3°18 | 19°51 | 16°36 | F 16 |
| S 17 | 21 44 16 | 24°38'27 | 27°58 | 14°59 | 9°57 | 19° 3 | 22°37 | 3°52 | 0°46 | 0°33 | 6°46 | 2°12 | 3°15 | 19°58 | 16°44 | S 17 |
| S 18 | 21 48 12 | 25°36'18 | 10♍19 | 16°58 | 10°46 | 19°41 | 22°46 | 3°48 | 0°49 | 0°31 | 6°48 | 2° 1 | 3°12 | 20° 5 | 16°52 | S 18 |
| M19 | 21 52 9 | 26°34'10 | 22°29 | 18°57 | 11°35 | 20°20 | 22°56 | 3°45 | 0°51 | 0°30 | 6°50 | 1°53 | 3° 9 | 20°11 | 17° 0 | M19 |
| T 20 | 21 56 5 | 27°32'03 | 4♎28 | 20°57 | 12°25 | 20°59 | 23° 6 | 3°41 | 0°53 | 0°29 | 6°51 | 1°47 | 3° 6 | 20°18 | 17° 8 | T 20 |
| W21 | 22 0 2 | 28°29'58 | 16°20 | 22°56 | 13°16 | 21°37 | 23°16 | 3°37 | 0°56 | 0°27 | 6°53 | 1°43 | 3° 3 | 20°24 | 17°16 | W21 |
| T 22 | 22 3 58 | 29°27'54 | 28° 7 | 24°56 | 14° 8 | 22°16 | 23°25 | 3°33 | 0°58 | 0°26 | 6°55 | 1°D42 | 2°59 | 20°31 | 17°23 | T 22 |
| F 23 | 22 7 55 | 0♍25'51 | 9♏54 | 26°55 | 15° 0 | 22°54 | 23°36 | 3°29 | 1° 0 | 0°25 | 6°56 | 1°42 | 2°56 | 20°38 | 17°31 | F 23 |
| S 24 | 22 11 51 | 1°23'50 | 21°46 | 28°54 | 15°52 | 23°32 | 23°46 | 3°26 | 1° 2 | 0°23 | 6°58 | 1°43 | 2°53 | 20°44 | 17°39 | S 24 |
| S 25 | 22 15 48 | 2°21'51 | 3♐49 | 0♍52 | 16°46 | 24°11 | 23°56 | 3°22 | 1° 5 | 0°22 | 7° 0 | 1°R43 | 2°50 | 20°51 | 17°47 | S 25 |
| M26 | 22 19 44 | 3°19'52 | 16° 7 | 2°49 | 17°40 | 24°49 | 24° 6 | 3°18 | 1° 7 | 0°21 | 7° 1 | 1°42 | 2°47 | 20°58 | 17°55 | M26 |
| T 27 | 22 23 41 | 4°17'55 | 28°46 | 4°45 | 18°34 | 25°27 | 24°16 | 3°15 | 1° 9 | 0°19 | 7° 3 | 1°39 | 2°43 | 21° 4 | 18° 3 | T 27 |
| W28 | 22 27 38 | 5°16'00 | 11♑50 | 6°40 | 19°29 | 26° 5 | 24°27 | 3°11 | 1°11 | 0°18 | 7° 4 | 1°34 | 2°40 | 21°11 | 18°10 | W28 |
| T 29 | 22 31 34 | 6°14'06 | 25°21 | 8°34 | 20°25 | 26°43 | 24°37 | 3° 8 | 1°13 | 0°16 | 7° 6 | 1°27 | 2°37 | 21°18 | 18°18 | T 29 |
| F 30 | 22 35 31 | 7°12'13 | 9♒19 | 10°28 | 21°21 | 27°21 | 24°48 | 3° 5 | 1°15 | 0°15 | 7° 8 | 1°19 | 2°34 | 21°24 | 18°26 | F 30 |
| S 31 | 22 39 27 | 8♍10'22 | 23♒41 | 12♍20 | 22♋17 | 27♋59 | 24♎59 | 3♒ 2 | 1♋17 | 0♈13 | 7♌ 9 | 1♏11 | 2♏31 | 21♎31 | 18♌34 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 17n58 | 17s36 | 4n48 | 20n18 | 1s41 | 18n12 | 5s16 | 23n51 | 0n39 | 6s52 | 1n10 | 19s43 | 0s42 | 23n41 | 0n12 | 0s59 | 1s26 | 24n24 | 5n52 | 12s52 | 12s54 | 8s27 | 10n42 | 6s 1 |
| F 2 | 17 42 | 15 4 | 5 1 | 20 25 | 1 25 | 18 15 | 5 13 | 23 49 | 0 40 | 6 56 | 1 9 | 19 44 | 0 42 | 23 41 | 0 12 | 0 59 | 1 26 | 24 24 | 5 52 | 12 48 | 12 53 | 8 29 | 10 40 | 6 1 |
| S 3 | 17 27 | 11 36 | 4 55 | 20 30 | 1 9 | 18 19 | 5 10 | 23 47 | 0 40 | 6 59 | 1 9 | 19 45 | 0 42 | 23 41 | 0 12 | 0 59 | 1 26 | 24 23 | 5 52 | 12 44 | 12 52 | 8 31 | 10 38 | 6 1 |
| S 4 | 17 11 | 7 24 | 4 31 | 20 34 | 0 54 | 18 22 | 5 6 | 23 44 | 0 41 | 7 2 | 1 9 | 19 46 | 0 42 | 23 41 | 0 12 | 1 0 | 1 26 | 24 23 | 5 52 | 12 41 | 12 51 | 8 32 | 10 36 | 6 1 |
| M 5 | 16 55 | 2 45 | 3 49 | 20 36 | 0 39 | 18 26 | 5 2 | 23 42 | 0 42 | 7 5 | 1 9 | 19 47 | 0 42 | 23 41 | 0 12 | 1 0 | 1 26 | 24 23 | 5 52 | 12 38 | 12 50 | 8 34 | 10 34 | 6 1 |
| T 6 | 16 38 | 2n 5 | 2 52 | 20 36 | 0 25 | 18 30 | 4 58 | 23 39 | 0 42 | 7 8 | 1 9 | 19 49 | 0 42 | 23 41 | 0 12 | 1 1 | 1 26 | 24 22 | 5 52 | 12 36 | 12 49 | 8 36 | 10 32 | 6 1 |
| W 7 | 16 21 | 6 47 | 1 44 | 20 33 | 0 11 | 18 33 | 4 54 | 23 36 | 0 43 | 7 12 | 1 8 | 19 50 | 0 42 | 23 41 | 0 12 | 1 1 | 1 26 | 24 22 | 5 53 | 12 35 | 12 48 | 8 38 | 10 30 | 6 1 |
| T 8 | 16 4 | 11 3 | 0 30 | 20 29 | 0n 3 | 18 36 | 4 50 | 23 33 | 0 44 | 7 15 | 1 8 | 19 51 | 0 42 | 23 41 | 0 12 | 1 1 | 1 26 | 24 21 | 5 53 | 12 34 | 12 47 | 8 39 | 10 27 | 6 1 |
| F 9 | 15 47 | 14 38 | 0s45 | 20 21 | 0 16 | 18 40 | 4 45 | 23 29 | 0 44 | 7 19 | 1 8 | 19 52 | 0 42 | 23 41 | 0 12 | 1 2 | 1 26 | 24 21 | 5 53 | 12 34 | 12 46 | 8 41 | 10 25 | 6 0 |
| S 10 | 15 29 | 17 18 | 1 56 | 20 11 | 0 28 | 18 43 | 4 41 | 23 26 | 0 45 | 7 22 | 1 8 | 19 53 | 0 42 | 23 41 | 0 12 | 1 2 | 1 26 | 24 21 | 5 53 | 12 34 | 12 45 | 8 43 | 10 23 | 6 0 |
| S 11 | 15 12 | 18 56 | 3 0 | 19 59 | 0 39 | 18 46 | 4 36 | 23 22 | 0 45 | 7 25 | 1 8 | 19 54 | 0 42 | 23 41 | 0 12 | 1 3 | 1 26 | 24 20 | 5 53 | 12 34 | 12 44 | 8 45 | 10 21 | 6 0 |
| M12 | 14 53 | 19 26 | 3 52 | 19 43 | 0 49 | 18 49 | 4 32 | 23 18 | 0 46 | 7 29 | 1 7 | 19 55 | 0 42 | 23 41 | 0 12 | 1 3 | 1 26 | 24 20 | 5 53 | 12 32 | 12 42 | 8 46 | 10 18 | 6 0 |
| T 13 | 14 35 | 18 49 | 4 31 | 19 25 | 0 59 | 18 51 | 4 27 | 23 14 | 0 47 | 7 32 | 1 7 | 19 56 | 0 42 | 23 41 | 0 12 | 1 4 | 1 26 | 24 20 | 5 53 | 12 30 | 12 41 | 8 48 | 10 16 | 6 0 |
| W14 | 14 17 | 17 11 | 4 54 | 19 4 | 1 8 | 18 54 | 4 22 | 23 10 | 0 47 | 7 36 | 1 7 | 19 57 | 0 42 | 23 41 | 0 12 | 1 4 | 1 26 | 24 19 | 5 53 | 12 27 | 12 40 | 8 50 | 10 14 | 6 0 |
| T 15 | 13 58 | 14 42 | 5 2 | 18 41 | 1 15 | 18 56 | 4 17 | 23 5 | 0 48 | 7 40 | 1 7 | 19 58 | 0 42 | 23 41 | 0 12 | 1 5 | 1 26 | 24 19 | 5 53 | 12 23 | 12 39 | 8 51 | 10 12 | 6 0 |
| F 16 | 13 39 | 11 33 | 4 55 | 18 15 | 1 22 | 18 58 | 4 12 | 23 1 | 0 49 | 7 43 | 1 7 | 19 59 | 0 43 | 23 41 | 0 12 | 1 5 | 1 26 | 24 19 | 5 54 | 12 19 | 12 38 | 8 53 | 10 9 | 6 0 |
| S 17 | 13 20 | 7 56 | 4 33 | 17 46 | 1 28 | 19 0 | 4 7 | 22 56 | 0 49 | 7 47 | 1 6 | 20 0 | 0 43 | 23 41 | 0 12 | 1 6 | 1 26 | 24 18 | 5 54 | 12 15 | 12 37 | 8 55 | 10 7 | 6 0 |
| S 18 | 13 0 | 4 2 | 3 58 | 17 15 | 1 33 | 19 1 | 4 2 | 22 51 | 0 50 | 7 51 | 1 6 | 20 1 | 0 43 | 23 41 | 0 12 | 1 7 | 1 26 | 24 18 | 5 54 | 12 12 | 12 36 | 8 57 | 10 5 | 6 0 |
| M19 | 12 41 | 0 2 | 3 13 | 16 43 | 1 38 | 19 2 | 3 57 | 22 46 | 0 50 | 7 54 | 1 6 | 20 2 | 0 43 | 23 41 | 0 12 | 1 7 | 1 26 | 24 18 | 5 54 | 12 9 | 12 35 | 8 58 | 10 2 | 6 0 |
| T 20 | 12 21 | 3s55 | 2 20 | 16 8 | 1 41 | 19 3 | 3 52 | 22 41 | 0 51 | 7 58 | 1 6 | 20 3 | 0 43 | 23 41 | 0 12 | 1 8 | 1 26 | 24 17 | 5 54 | 12 7 | 12 34 | 9 0 | 10 0 | 6 0 |
| W21 | 12 1 | 7 41 | 1 21 | 15 31 | 1 43 | 19 4 | 3 46 | 22 35 | 0 52 | 8 2 | 1 6 | 20 4 | 0 43 | 23 41 | 0 12 | 1 8 | 1 26 | 24 17 | 5 54 | 12 5 | 12 33 | 9 2 | 9 58 | 6 0 |
| T 22 | 11 41 | 11 7 | 0 19 | 14 53 | 1 45 | 19 4 | 3 41 | 22 30 | 0 52 | 8 6 | 1 6 | 20 5 | 0 43 | 23 41 | 0 12 | 1 9 | 1 26 | 24 17 | 5 54 | 12 5 | 12 32 | 9 4 | 9 55 | 6 0 |
| F 23 | 11 20 | 14 7 | 0n44 | 14 13 | 1 46 | 19 4 | 3 36 | 22 24 | 0 53 | 8 10 | 1 5 | 20 6 | 0 43 | 23 41 | 0 12 | 1 9 | 1 26 | 24 16 | 5 54 | 12 5 | 12 31 | 9 5 | 9 53 | 6 0 |
| S 24 | 11 0 | 16 32 | 1 46 | 13 32 | 1 46 | 19 3 | 3 30 | 22 18 | 0 54 | 8 14 | 1 5 | 20 7 | 0 43 | 23 41 | 0 12 | 1 10 | 1 26 | 24 16 | 5 55 | 12 5 | 12 29 | 9 7 | 9 51 | 6 0 |
| S 25 | 10 39 | 18 16 | 2 44 | 12 50 | 1 46 | 19 2 | 3 25 | 22 12 | 0 54 | 8 18 | 1 5 | 20 8 | 0 43 | 23 41 | 0 12 | 1 11 | 1 26 | 24 16 | 5 55 | 12 5 | 12 28 | 9 9 | 9 48 | 6 0 |
| M26 | 10 18 | 19 11 | 3 35 | 12 7 | 1 45 | 19 1 | 3 19 | 22 6 | 0 55 | 8 21 | 1 5 | 20 9 | 0 43 | 23 41 | 0 12 | 1 11 | 1 26 | 24 16 | 5 55 | 12 5 | 12 27 | 9 10 | 9 46 | 6 0 |
| T 27 | 9 57 | 19 10 | 4 18 | 11 23 | 1 43 | 18 59 | 3 14 | 21 59 | 0 55 | 8 25 | 1 5 | 20 10 | 0 43 | 23 41 | 0 13 | 1 12 | 1 26 | 24 15 | 5 55 | 12 4 | 12 26 | 9 12 | 9 43 | 6 0 |
| W28 | 9 36 | 18 9 | 4 49 | 10 38 | 1 41 | 18 57 | 3 8 | 21 53 | 0 56 | 8 29 | 1 4 | 20 10 | 0 43 | 23 41 | 0 13 | 1 12 | 1 27 | 24 15 | 5 55 | 12 2 | 12 25 | 9 14 | 9 41 | 6 1 |
| T 29 | 9 14 | 16 6 | 5 5 | 9 53 | 1 38 | 18 55 | 3 3 | 21 46 | 0 57 | 8 33 | 1 4 | 20 11 | 0 43 | 23 41 | 0 13 | 1 13 | 1 27 | 24 15 | 5 55 | 12 0 | 12 24 | 9 15 | 9 39 | 6 1 |
| F 30 | 8 53 | 13 4 | 5 4 | 9 7 | 1 35 | 18 52 | 2 57 | 21 39 | 0 57 | 8 38 | 1 4 | 20 12 | 0 43 | 23 41 | 0 13 | 1 14 | 1 27 | 24 14 | 5 55 | 11 57 | 12 23 | 9 17 | 9 36 | 6 1 |
| S 31 | 8n31 | 9s11 | 4n43 | 8n21 | 1n32 | 18n48 | 2s52 | 21n32 | 0n58 | 8s42 | 1n 4 | 20s13 | 0s43 | 23n41 | 0n13 | 1s14 | 1s27 | 24n14 | 5n56 | 11s54 | 12s22 | 9s19 | 9n34 | 6s 1 |

Julian Day Number = 2341089.5, Delta T = 15.17 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'08, Lahiri = 19°38'08Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## SEPTEMBER 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 22 43 24 | 9♍ 8'33 | 8♓22 | 14♍10 | 23♋14 | 28♋37 | 25♎10 | 2°R58 | 1♋18 | 0°R12 | 7♌11 | 1°R 3 | 2♏28 | 21♎38 | 18♌41 | S 1 |
| M 2 | 22 47 20 | 10° 6'45 | 23°15 | 16° 0 | 24°12 | 29°15 | 25°20 | 2♒55 | 1°20 | 0♈10 | 7°12 | 0♏57 | 2°24 | 21°44 | 18°49 | M 2 |
| T 3 | 22 51 17 | 11° 4'59 | 8♈11 | 17°49 | 25°10 | 29°53 | 25°31 | 2°52 | 1°22 | 0° 9 | 7°14 | 0°53 | 2°21 | 21°51 | 18°57 | T 3 |
| W 4 | 22 55 13 | 12° 3'15 | 23° 2 | 19°36 | 26° 9 | 0♌31 | 25°42 | 2°49 | 1°24 | 0° 7 | 7°15 | 0°51 | 2°18 | 21°58 | 19° 4 | W 4 |
| T 5 | 22 59 10 | 13° 1'33 | 7♉41 | 21°22 | 27° 7 | 1° 9 | 25°54 | 2°46 | 1°25 | 0° 5 | 7°17 | 0°D51 | 2°15 | 22° 4 | 19°12 | T 5 |
| F 6 | 23 3 7 | 13°59'54 | 22° 4 | 23° 7 | 28° 7 | 1°46 | 26° 5 | 2°44 | 1°27 | 0° 4 | 7°18 | 0°52 | 2°12 | 22°11 | 19°19 | F 6 |
| S 7 | 23 7 3 | 14°58'16 | 6♊ 9 | 24°51 | 29° 7 | 2°24 | 26°16 | 2°41 | 1°28 | 0° 2 | 7°20 | 0°53 | 2° 8 | 22°17 | 19°27 | S 7 |
| S 8 | 23 11 0 | 15°56'41 | 19°54 | 26°34 | 0♌ 7 | 3° 1 | 26°27 | 2°38 | 1°30 | 0° 1 | 7°21 | 0°R53 | 2° 5 | 22°24 | 19°35 | S 8 |
| M 9 | 23 14 56 | 16°55'08 | 3♋22 | 28°16 | 1° 7 | 3°39 | 26°39 | 2°36 | 1°31 | 29♓59 | 7°23 | 0°52 | 2° 2 | 22°31 | 19°42 | M 9 |
| T 10 | 23 18 53 | 17°53'37 | 16°32 | 29°57 | 2° 8 | 4°16 | 26°50 | 2°33 | 1°33 | 29°57 | 7°24 | 0°48 | 1°59 | 22°37 | 19°49 | T 10 |
| W11 | 23 22 49 | 18°52'08 | 29°28 | 1♎36 | 3°10 | 4°54 | 27° 2 | 2°31 | 1°34 | 29°56 | 7°25 | 0°43 | 1°56 | 22°44 | 19°57 | W11 |
| T 12 | 23 26 46 | 19°50'41 | 12♌10 | 3°15 | 4°11 | 5°31 | 27°13 | 2°29 | 1°36 | 29°54 | 7°27 | 0°37 | 1°53 | 22°51 | 20° 4 | T 12 |
| F 13 | 23 30 42 | 20°49'17 | 24°39 | 4°52 | 5°13 | 6° 9 | 27°25 | 2°26 | 1°37 | 29°53 | 7°28 | 0°30 | 1°49 | 22°57 | 20°12 | F 13 |
| S 14 | 23 34 39 | 21°47'54 | 6♍57 | 6°29 | 6°15 | 6°46 | 27°36 | 2°24 | 1°38 | 29°51 | 7°29 | 0°23 | 1°46 | 23° 4 | 20°19 | S 14 |
| S 15 | 23 38 36 | 22°46'33 | 19° 6 | 8° 4 | 7°18 | 7°23 | 27°48 | 2°22 | 1°39 | 29°49 | 7°31 | 0°16 | 1°43 | 23°11 | 20°26 | S 15 |
| M16 | 23 42 32 | 23°45'15 | 1♎ 6 | 9°39 | 8°21 | 8° 0 | 28° 0 | 2°20 | 1°40 | 29°48 | 7°32 | 0°11 | 1°40 | 23°17 | 20°33 | M16 |
| T 17 | 23 46 29 | 24°43'58 | 12°58 | 11°12 | 9°24 | 8°37 | 28°12 | 2°18 | 1°41 | 29°46 | 7°33 | 0° 8 | 1°37 | 23°24 | 20°41 | T 17 |
| W18 | 23 50 25 | 25°42'43 | 24°46 | 12°45 | 10°28 | 9°14 | 28°24 | 2°17 | 1°42 | 29°44 | 7°35 | 0°D 6 | 1°34 | 23°31 | 20°48 | W18 |
| T 19 | 23 54 22 | 26°41'30 | 6♏32 | 14°16 | 11°32 | 9°51 | 28°36 | 2°15 | 1°43 | 29°43 | 7°36 | 0° 6 | 1°30 | 23°37 | 20°55 | T 19 |
| F 20 | 23 58 18 | 27°40'19 | 18°20 | 15°47 | 12°36 | 10°28 | 28°48 | 2°13 | 1°44 | 29°41 | 7°37 | 0° 8 | 1°27 | 23°44 | 21° 2 | F 20 |
| S 21 | 0 2 15 | 28°39'10 | 0♐12 | 17°16 | 13°40 | 11° 5 | 29° 0 | 2°12 | 1°45 | 29°39 | 7°38 | 0° 9 | 1°24 | 23°51 | 21° 9 | S 21 |
| S 22 | 0 6 11 | 29°38'03 | 12°14 | 18°45 | 14°45 | 11°42 | 29°12 | 2°10 | 1°46 | 29°38 | 7°40 | 0°11 | 1°21 | 23°57 | 21°16 | S 22 |
| M23 | 0 10 8 | 0♎36'57 | 24°30 | 20°13 | 15°50 | 12°18 | 29°24 | 2° 9 | 1°47 | 29°36 | 7°41 | 0°12 | 1°18 | 24° 4 | 21°23 | M23 |
| T 24 | 0 14 5 | 1°35'53 | 7♑ 6 | 21°39 | 16°55 | 12°55 | 29°37 | 2° 8 | 1°48 | 29°34 | 7°42 | 0°R12 | 1°14 | 24°10 | 21°30 | T 24 |
| W25 | 0 18 1 | 2°34'51 | 20° 5 | 23° 5 | 18° 1 | 13°31 | 29°49 | 2° 7 | 1°48 | 29°33 | 7°43 | 0°11 | 1°11 | 24°17 | 21°37 | W25 |
| T 26 | 0 21 58 | 3°33'51 | 3♒31 | 24°30 | 19° 6 | 14° 8 | 0♏ 1 | 2° 6 | 1°49 | 29°31 | 7°44 | 0° 9 | 1° 8 | 24°24 | 21°43 | T 26 |
| F 27 | 0 25 54 | 4°32'53 | 17°25 | 25°53 | 20°12 | 14°44 | 0°14 | 2° 5 | 1°49 | 29°29 | 7°45 | 0° 5 | 1° 5 | 24°30 | 21°50 | F 27 |
| S 28 | 0 29 51 | 5°31'56 | 1♓47 | 27°16 | 21°18 | 15°21 | 0°26 | 2° 4 | 1°50 | 29°28 | 7°46 | 0° 2 | 1° 2 | 24°37 | 21°57 | S 28 |
| S 29 | 0 33 47 | 6°31'01 | 16°32 | 28°37 | 22°25 | 15°57 | 0°39 | 2° 3 | 1°50 | 29°26 | 7°47 | 29♎59 | 0°59 | 24°44 | 22° 3 | S 29 |
| M30 | 0 37 44 | 7♎30'08 | 1♈34 | 29♎58 | 23♌31 | 16♌33 | 0♏51 | 2♒ 3 | 1♋51 | 29♓24 | 7♌48 | 29♎56 | 0♏55 | 24♎50 | 22♌10 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 8n 9 | 4s40 | 4n 4 | 7n35 | 1n27 | 18n45 | 2s46 | 21n25 | 0n58 | 8s46 | 1n 4 | 20s14 | 0s43 | 23n41 | 0n13 | 1s15 | 1s27 | 24n14 | 5n56 | 11s51 | 12s21 | 9s21 | 9n31 | 6s 1 |
| M 2 | 7 47 | 0n12 | 3 8 | 6 48 | 1 23 | 18 40 | 2 41 | 21 18 | 0 59 | 8 50 | 1 4 | 20 14 | 0 43 | 23 41 | 0 13 | 1 15 | 1 27 | 24 14 | 5 56 | 11 49 | 12 20 | 9 22 | 9 29 | 6 1 |
| T 3 | 7 25 | 5 5 | 1 59 | 6 1 | 1 18 | 18 36 | 2 35 | 21 11 | 1 0 | 8 54 | 1 4 | 20 15 | 0 43 | 23 41 | 0 13 | 1 16 | 1 27 | 24 13 | 5 56 | 11 48 | 12 19 | 9 24 | 9 26 | 6 1 |
| W 4 | 7 3 | 9 37 | 0 42 | 5 15 | 1 13 | 18 30 | 2 29 | 21 3 | 1 0 | 8 58 | 1 3 | 20 16 | 0 43 | 23 41 | 0 13 | 1 17 | 1 27 | 24 13 | 5 56 | 11 47 | 12 17 | 9 26 | 9 24 | 6 1 |
| T 5 | 6 41 | 13 31 | 0s37 | 4 28 | 1 8 | 18 25 | 2 24 | 20 56 | 1 1 | 9 2 | 1 3 | 20 16 | 0 43 | 23 41 | 0 13 | 1 17 | 1 27 | 24 13 | 5 56 | 11 47 | 12 16 | 9 27 | 9 21 | 6 2 |
| F 6 | 6 18 | 16 30 | 1 52 | 3 41 | 1 2 | 18 19 | 2 18 | 20 48 | 1 2 | 9 6 | 1 3 | 20 17 | 0 43 | 23 41 | 0 13 | 1 18 | 1 27 | 24 13 | 5 56 | 11 47 | 12 15 | 9 29 | 9 19 | 6 2 |
| S 7 | 5 56 | 18 25 | 2 59 | 2 54 | 0 56 | 18 12 | 2 13 | 20 40 | 1 2 | 9 11 | 1 3 | 20 18 | 0 44 | 23 41 | 0 13 | 1 19 | 1 27 | 24 13 | 5 57 | 11 48 | 12 14 | 9 31 | 9 17 | 6 2 |
| S 8 | 5 33 | 19 12 | 3 54 | 2 8 | 0 50 | 18 5 | 2 7 | 20 32 | 1 3 | 9 15 | 1 3 | 20 18 | 0 44 | 23 41 | 0 13 | 1 19 | 1 27 | 24 12 | 5 57 | 11 48 | 12 13 | 9 32 | 9 14 | 6 2 |
| M 9 | 5 10 | 18 51 | 4 35 | 1 21 | 0 43 | 17 58 | 2 2 | 20 24 | 1 3 | 9 19 | 1 3 | 20 19 | 0 44 | 23 41 | 0 13 | 1 20 | 1 27 | 24 12 | 5 57 | 11 47 | 12 12 | 9 34 | 9 12 | 6 2 |
| T 10 | 4 48 | 17 29 | 5 0 | 0 35 | 0 37 | 17 50 | 1 56 | 20 15 | 1 4 | 9 23 | 1 2 | 20 20 | 0 44 | 23 41 | 0 13 | 1 21 | 1 27 | 24 12 | 5 57 | 11 46 | 12 11 | 9 36 | 9 9 | 6 2 |
| W11 | 4 25 | 15 15 | 5 10 | 0s11 | 0 30 | 17 41 | 1 51 | 20 7 | 1 5 | 9 28 | 1 2 | 20 20 | 0 44 | 23 41 | 0 13 | 1 21 | 1 27 | 24 12 | 5 57 | 11 45 | 12 10 | 9 37 | 9 7 | 6 3 |
| T 12 | 4 2 | 12 19 | 5 4 | 0 56 | 0 23 | 17 32 | 1 45 | 19 58 | 1 5 | 9 32 | 1 2 | 20 21 | 0 44 | 23 41 | 0 13 | 1 22 | 1 27 | 24 12 | 5 58 | 11 42 | 12 9 | 9 39 | 9 4 | 6 3 |
| F 13 | 3 39 | 8 53 | 4 43 | 1 41 | 0 16 | 17 23 | 1 40 | 19 50 | 1 6 | 9 36 | 1 2 | 20 21 | 0 44 | 23 41 | 0 13 | 1 23 | 1 27 | 24 11 | 5 58 | 11 40 | 12 8 | 9 41 | 9 2 | 6 3 |
| S 14 | 3 15 | 5 6 | 4 9 | 2 26 | 0 9 | 17 13 | 1 34 | 19 41 | 1 7 | 9 40 | 1 2 | 20 22 | 0 44 | 23 41 | 0 13 | 1 23 | 1 27 | 24 11 | 5 58 | 11 37 | 12 6 | 9 42 | 8 59 | 6 3 |
| S 15 | 2 52 | 1 11 | 3 25 | 3 10 | 0 2 | 17 2 | 1 29 | 19 32 | 1 7 | 9 45 | 1 2 | 20 22 | 0 44 | 23 41 | 0 13 | 1 24 | 1 27 | 24 11 | 5 58 | 11 35 | 12 5 | 9 44 | 8 57 | 6 3 |
| M16 | 2 29 | 2s45 | 2 32 | 3 54 | 0s 5 | 16 51 | 1 24 | 19 23 | 1 8 | 9 49 | 1 2 | 20 23 | 0 44 | 23 41 | 0 13 | 1 25 | 1 27 | 24 11 | 5 58 | 11 33 | 12 4 | 9 46 | 8 54 | 6 4 |
| T 17 | 2 6 | 6 33 | 1 32 | 4 38 | 0 13 | 16 40 | 1 18 | 19 14 | 1 8 | 9 54 | 1 2 | 20 23 | 0 44 | 23 41 | 0 13 | 1 25 | 1 27 | 24 11 | 5 58 | 11 32 | 12 3 | 9 47 | 8 52 | 6 4 |
| W18 | 1 42 | 10 4 | 0 29 | 5 21 | 0 20 | 16 28 | 1 13 | 19 5 | 1 9 | 9 58 | 1 1 | 20 24 | 0 44 | 23 41 | 0 13 | 1 26 | 1 27 | 24 10 | 5 59 | 11 32 | 12 2 | 9 49 | 8 49 | 6 4 |
| T 19 | 1 19 | 13 10 | 0n35 | 6 3 | 0 27 | 16 16 | 1 8 | 18 56 | 1 10 | 10 2 | 1 1 | 20 24 | 0 44 | 23 41 | 0 13 | 1 27 | 1 27 | 24 10 | 5 59 | 11 32 | 12 1 | 9 51 | 8 47 | 6 4 |
| F 20 | 0 56 | 15 44 | 1 38 | 6 45 | 0 35 | 16 3 | 1 3 | 18 46 | 1 10 | 10 7 | 1 1 | 20 24 | 0 44 | 23 41 | 0 13 | 1 27 | 1 27 | 24 10 | 5 59 | 11 32 | 12 0 | 9 52 | 8 45 | 6 5 |
| S 21 | 0 32 | 17 39 | 2 38 | 7 27 | 0 42 | 15 50 | 0 58 | 18 37 | 1 11 | 10 11 | 1 1 | 20 25 | 0 44 | 23 41 | 0 13 | 1 28 | 1 27 | 24 10 | 5 59 | 11 33 | 11 59 | 9 54 | 8 42 | 6 5 |
| S 22 | 0 9 | 18 48 | 3 31 | 8 8 | 0 50 | 15 36 | 0 52 | 18 27 | 1 12 | 10 15 | 1 1 | 20 25 | 0 44 | 23 41 | 0 13 | 1 29 | 1 27 | 24 10 | 5 59 | 11 33 | 11 58 | 9 55 | 8 40 | 6 5 |
| M23 | 0s15 | 19 6 | 4 16 | 8 48 | 0 57 | 15 22 | 0 47 | 18 17 | 1 12 | 10 20 | 1 1 | 20 25 | 0 44 | 23 41 | 0 13 | 1 29 | 1 27 | 24 10 | 6 0 | 11 34 | 11 57 | 9 57 | 8 37 | 6 6 |
| T 24 | 0 38 | 18 28 | 4 50 | 9 27 | 1 5 | 15 7 | 0 42 | 18 8 | 1 13 | 10 24 | 1 1 | 20 26 | 0 44 | 23 41 | 0 13 | 1 30 | 1 27 | 24 10 | 6 0 | 11 34 | 11 55 | 9 59 | 8 35 | 6 6 |
| W25 | 1 2 | 16 52 | 5 10 | 10 6 | 1 12 | 14 52 | 0 37 | 17 58 | 1 13 | 10 29 | 1 1 | 20 26 | 0 44 | 23 41 | 0 13 | 1 31 | 1 27 | 24 10 | 6 0 | 11 33 | 11 54 | 10 0 | 8 32 | 6 6 |
| T 26 | 1 25 | 14 18 | 5 14 | 10 44 | 1 19 | 14 36 | 0 33 | 17 48 | 1 14 | 10 33 | 1 1 | 20 26 | 0 44 | 23 41 | 0 13 | 1 31 | 1 27 | 24 9 | 6 0 | 11 32 | 11 53 | 10 2 | 8 30 | 6 6 |
| F 27 | 1 49 | 10 52 | 5 1 | 11 22 | 1 27 | 14 20 | 0 28 | 17 38 | 1 15 | 10 38 | 1 0 | 20 26 | 0 44 | 23 41 | 0 13 | 1 32 | 1 27 | 24 9 | 6 0 | 11 31 | 11 52 | 10 4 | 8 28 | 6 7 |
| S 28 | 2 12 | 6 41 | 4 28 | 11 58 | 1 34 | 14 3 | 0 23 | 17 27 | 1 15 | 10 42 | 1 0 | 20 27 | 0 44 | 23 41 | 0 13 | 1 33 | 1 27 | 24 9 | 6 1 | 11 30 | 11 51 | 10 5 | 8 25 | 6 7 |
| S 29 | 2 35 | 1 59 | 3 37 | 12 34 | 1 41 | 13 47 | 0 18 | 17 17 | 1 16 | 10 46 | 1 0 | 20 27 | 0 44 | 23 41 | 0 13 | 1 33 | 1 27 | 24 9 | 6 1 | 11 29 | 11 50 | 10 7 | 8 23 | 6 7 |
| M30 | 2s59 | 2n55 | 2n30 | 13s 9 | 1s48 | 13n29 | 0s14 | 17n 7 | 1n17 | 10s51 | 1n 0 | 20s27 | 0s44 | 23n41 | 0n13 | 1s34 | 1s27 | 24n 9 | 6n 1 | 11s28 | 11s49 | 10s 9 | 8n20 | 6s 8 |

Julian Day Number = 2341120.5, Delta T = 15.14 sec
Ecliptic obliquity = 23°28'36, Nutation = 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'12, Lahiri = 19°38'12Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## OCTOBER 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 41 40 | 8♎29'17 | 16♈45 | 1♏17 | 24♌38 | 17♌10 | 1♏ 4 | 2°R 2 | 1♋51 | 29°R23 | 7♌49 | 29°R55 | 0♏52 | 24♎57 | 22♌16 | T 1 |
| W 2 | 0 45 37 | 9°28'28 | 1♉54 | 2°34 | 25°45 | 17°46 | 1°16 | 2♒ 2 | 1°51 | 29♓21 | 7°50 | 29°D54 | 0°49 | 25° 4 | 22°23 | W 2 |
| T 3 | 0 49 33 | 10°27'41 | 16°53 | 3°51 | 26°53 | 18°22 | 1°29 | 2° 1 | 1°52 | 29°19 | 7°51 | 29♎55 | 0°46 | 25°10 | 22°29 | T 3 |
| F 4 | 0 53 30 | 11°26'57 | 1♊34 | 5° 6 | 28° 0 | 18°58 | 1°42 | 2° 1 | 1°52 | 29°18 | 7°52 | 29°56 | 0°43 | 25°17 | 22°35 | F 4 |
| S 5 | 0 57 27 | 12°26'15 | 15°53 | 6°20 | 29° 8 | 19°34 | 1°54 | 2° 1 | 1°52 | 29°16 | 7°53 | 29°57 | 0°40 | 25°24 | 22°42 | S 5 |
| S 6 | 1 1 23 | 13°25'36 | 29°48 | 7°32 | 0♍16 | 20°10 | 2° 7 | 2°D 1 | 1°52 | 29°15 | 7°54 | 29°58 | 0°36 | 25°30 | 22°48 | S 6 |
| M 7 | 1 5 20 | 14°24'58 | 13♋18 | 8°42 | 1°24 | 20°45 | 2°20 | 2° 1 | 1°R52 | 29°13 | 7°55 | 29°R59 | 0°33 | 25°37 | 22°54 | M 7 |
| T 8 | 1 9 16 | 15°24'23 | 26°26 | 9°50 | 2°32 | 21°21 | 2°33 | 2° 1 | 1°52 | 29°11 | 7°56 | 29°58 | 0°30 | 25°43 | 23° 0 | T 8 |
| W 9 | 1 13 13 | 16°23'51 | 9♌13 | 10°57 | 3°40 | 21°57 | 2°45 | 2° 1 | 1°52 | 29°10 | 7°57 | 29°57 | 0°27 | 25°50 | 23° 6 | W 9 |
| T 10 | 1 17 9 | 17°23'20 | 21°44 | 12° 1 | 4°49 | 22°32 | 2°58 | 2° 2 | 1°52 | 29° 8 | 7°57 | 29°56 | 0°24 | 25°57 | 23°12 | T 10 |
| F 11 | 1 21 6 | 18°22'52 | 4♍ 0 | 13° 3 | 5°58 | 23° 8 | 3°11 | 2° 2 | 1°52 | 29° 7 | 7°58 | 29°54 | 0°20 | 26° 3 | 23°18 | F 11 |
| S 12 | 1 25 2 | 19°22'26 | 16° 6 | 14° 2 | 7° 7 | 23°43 | 3°24 | 2° 3 | 1°51 | 29° 5 | 7°59 | 29°52 | 0°17 | 26°10 | 23°24 | S 12 |
| S 13 | 1 28 59 | 20°22'03 | 28° 3 | 14°58 | 8°16 | 24°19 | 3°37 | 2° 3 | 1°51 | 29° 4 | 8° 0 | 29°51 | 0°14 | 26°17 | 23°30 | S 13 |
| M14 | 1 32 56 | 21°21'41 | 9♎55 | 15°51 | 9°25 | 24°54 | 3°50 | 2° 4 | 1°51 | 29° 2 | 8° 0 | 29°50 | 0°11 | 26°23 | 23°35 | M14 |
| T 15 | 1 36 52 | 22°21'22 | 21°43 | 16°41 | 10°35 | 25°29 | 4° 3 | 2° 5 | 1°50 | 29° 1 | 8° 1 | 29°50 | 0° 8 | 26°30 | 23°41 | T 15 |
| W16 | 1 40 49 | 23°21'04 | 3♏30 | 17°26 | 11°45 | 26° 5 | 4°16 | 2° 6 | 1°50 | 28°59 | 8° 2 | 29°D50 | 0° 5 | 26°37 | 23°46 | W16 |
| T 17 | 1 44 45 | 24°20'49 | 15°18 | 18° 8 | 12°54 | 26°40 | 4°29 | 2° 7 | 1°49 | 28°58 | 8° 2 | 29°50 | 0° 1 | 26°43 | 23°52 | T 17 |
| F 18 | 1 48 42 | 25°20'35 | 27° 9 | 18°45 | 14° 4 | 27°15 | 4°42 | 2° 8 | 1°49 | 28°56 | 8° 3 | 29°50 | 29♎58 | 26°50 | 23°57 | F 18 |
| S 19 | 1 52 38 | 26°20'24 | 9♐ 6 | 19°16 | 15°14 | 27°50 | 4°55 | 2°10 | 1°48 | 28°55 | 8° 4 | 29°51 | 29°55 | 26°57 | 24° 2 | S 19 |
| S 20 | 1 56 35 | 27°20'14 | 21°12 | 19°42 | 16°25 | 28°24 | 5° 8 | 2°11 | 1°47 | 28°53 | 8° 4 | 29°51 | 29°52 | 27° 3 | 24° 8 | S 20 |
| M21 | 2 0 31 | 28°20'06 | 3♑31 | 20° 1 | 17°35 | 28°59 | 5°21 | 2°13 | 1°47 | 28°52 | 8° 5 | 29°51 | 29°49 | 27°10 | 24°13 | M21 |
| T 22 | 2 4 28 | 29°20'00 | 16° 6 | 20°14 | 18°45 | 29°34 | 5°34 | 2°14 | 1°46 | 28°50 | 8° 5 | 29°51 | 29°45 | 27°17 | 24°18 | T 22 |
| W23 | 2 8 25 | 0♏19'55 | 29° 0 | 20°R19 | 19°56 | 0♍ 8 | 5°48 | 2°16 | 1°45 | 28°49 | 8° 6 | 29°51 | 29°42 | 27°23 | 24°23 | W23 |
| T 24 | 2 12 21 | 1°19'52 | 12♒17 | 20°16 | 21° 7 | 0°43 | 6° 1 | 2°18 | 1°44 | 28°48 | 8° 6 | 29°51 | 29°39 | 27°30 | 24°28 | T 24 |
| F 25 | 2 16 18 | 2°19'50 | 26° 0 | 20° 4 | 22°18 | 1°17 | 6°14 | 2°19 | 1°43 | 28°46 | 8° 6 | 29°52 | 29°36 | 27°36 | 24°32 | F 25 |
| S 26 | 2 20 14 | 3°19'50 | 10♓ 9 | 19°43 | 23°29 | 1°52 | 6°27 | 2°21 | 1°42 | 28°45 | 8° 7 | 29°52 | 29°33 | 27°43 | 24°37 | S 26 |
| S 27 | 2 24 11 | 4°19'52 | 24°43 | 19°13 | 24°40 | 2°26 | 6°40 | 2°23 | 1°41 | 28°44 | 8° 7 | 29°52 | 29°30 | 27°50 | 24°42 | S 27 |
| M28 | 2 28 7 | 5°19'56 | 9♈37 | 18°33 | 25°51 | 3° 0 | 6°53 | 2°26 | 1°40 | 28°43 | 8° 7 | 29°53 | 29°26 | 27°56 | 24°46 | M28 |
| T 29 | 2 32 4 | 6°20'01 | 24°45 | 17°44 | 27° 2 | 3°34 | 7° 6 | 2°28 | 1°39 | 28°41 | 8° 8 | 29°R53 | 29°23 | 28° 3 | 24°51 | T 29 |
| W30 | 2 36 0 | 7°20'08 | 9♉59 | 16°46 | 28°14 | 4° 8 | 7°20 | 2°30 | 1°38 | 28°40 | 8° 8 | 29°53 | 29°20 | 28°10 | 24°55 | W30 |
| T 31 | 2 39 57 | 8♏20'17 | 25♉ 8 | 15♏41 | 29♍25 | 4♍42 | 7♏33 | 2♒33 | 1♋37 | 28♓39 | 8♌ 8 | 29♎52 | 29♎17 | 28♎16 | 24♌59 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3 s22 | 7n42 | 1n12 | 13 s44 | 1 s55 | 13n11 | 0 s 9 | 16n56 | 1n17 | 10 s55 | 1n 0 | 20 s27 | 0 s44 | 23n41 | 0n13 | 1 s35 | 1 s27 | 24n 9 | 6n 1 | 11 s27 | 11 s48 | 10 s10 | 8n18 | 6 s 8 |
| W 2 | 3 46 | 11 59 | 0 s11 | 14 17 | 2 1 | 12 53 | 0 5 | 16 46 | 1 18 | 11 0 | 1 0 | 20 27 | 0 44 | 23 41 | 0 13 | 1 35 | 1 27 | 24 9 | 6 1 | 11 27 | 11 47 | 10 12 | 8 16 | 6 8 |
| T 3 | 4 9 | 15 26 | 1 33 | 14 50 | 2 8 | 12 34 | 0 0 | 16 35 | 1 18 | 11 4 | 1 0 | 20 27 | 0 44 | 23 41 | 0 13 | 1 36 | 1 27 | 24 9 | 6 2 | 11 27 | 11 45 | 10 13 | 8 13 | 6 9 |
| F 4 | 4 32 | 17 47 | 2 46 | 15 21 | 2 14 | 12 15 | 0n 4 | 16 25 | 1 19 | 11 9 | 1 0 | 20 27 | 0 44 | 23 41 | 0 13 | 1 37 | 1 27 | 24 9 | 6 2 | 11 28 | 11 44 | 10 15 | 8 11 | 6 9 |
| S 5 | 4 55 | 18 57 | 3 48 | 15 51 | 2 20 | 11 56 | 0 9 | 16 14 | 1 20 | 11 13 | 1 0 | 20 27 | 0 44 | 23 41 | 0 13 | 1 37 | 1 27 | 24 9 | 6 2 | 11 28 | 11 43 | 10 17 | 8 8 | 6 10 |
| S 6 | 5 18 | 18 54 | 4 34 | 16 21 | 2 26 | 11 36 | 0 13 | 16 3 | 1 20 | 11 18 | 1 0 | 20 27 | 0 44 | 23 41 | 0 13 | 1 38 | 1 27 | 24 9 | 6 2 | 11 29 | 11 42 | 10 18 | 8 6 | 6 10 |
| M 7 | 5 42 | 17 46 | 5 4 | 16 49 | 2 32 | 11 16 | 0 17 | 15 53 | 1 21 | 11 22 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 38 | 1 27 | 24 9 | 6 3 | 11 29 | 11 41 | 10 20 | 8 4 | 6 10 |
| T 8 | 6 5 | 15 43 | 5 16 | 17 16 | 2 37 | 10 55 | 0 21 | 15 42 | 1 22 | 11 27 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 39 | 1 27 | 24 9 | 6 3 | 11 29 | 11 40 | 10 21 | 8 1 | 6 11 |
| W 9 | 6 27 | 12 57 | 5 13 | 17 42 | 2 42 | 10 34 | 0 25 | 15 31 | 1 22 | 11 31 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 40 | 1 27 | 24 9 | 6 3 | 11 28 | 11 39 | 10 23 | 7 59 | 6 11 |
| T 10 | 6 50 | 9 38 | 4 54 | 18 7 | 2 47 | 10 13 | 0 29 | 15 20 | 1 23 | 11 36 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 40 | 1 27 | 24 9 | 6 3 | 11 28 | 11 38 | 10 25 | 7 57 | 6 12 |
| F 11 | 7 13 | 5 58 | 4 23 | 18 30 | 2 51 | 9 51 | 0 33 | 15 9 | 1 24 | 11 40 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 41 | 1 27 | 24 9 | 6 3 | 11 27 | 11 37 | 10 26 | 7 55 | 6 12 |
| S 12 | 7 36 | 2 7 | 3 40 | 18 52 | 2 55 | 9 29 | 0 37 | 14 57 | 1 24 | 11 45 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 42 | 1 27 | 24 9 | 6 4 | 11 27 | 11 35 | 10 28 | 7 52 | 6 12 |
| S 13 | 7 58 | 1 s47 | 2 48 | 19 12 | 2 59 | 9 6 | 0 40 | 14 46 | 1 25 | 11 49 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 42 | 1 27 | 24 9 | 6 4 | 11 26 | 11 34 | 10 29 | 7 50 | 6 13 |
| M14 | 8 21 | 5 36 | 1 48 | 19 30 | 3 2 | 8 44 | 0 44 | 14 35 | 1 25 | 11 53 | 0 59 | 20 27 | 0 44 | 23 41 | 0 13 | 1 43 | 1 27 | 24 9 | 6 4 | 11 26 | 11 33 | 10 31 | 7 48 | 6 13 |
| T 15 | 8 43 | 9 10 | 0 45 | 19 47 | 3 4 | 8 21 | 0 48 | 14 24 | 1 26 | 11 58 | 0 59 | 20 26 | 0 44 | 23 41 | 0 14 | 1 43 | 1 27 | 24 9 | 6 4 | 11 26 | 11 32 | 10 33 | 7 46 | 6 14 |
| W16 | 9 5 | 12 23 | 0n20 | 20 2 | 3 6 | 7 57 | 0 51 | 14 12 | 1 27 | 12 2 | 0 59 | 20 26 | 0 44 | 23 41 | 0 14 | 1 44 | 1 27 | 24 9 | 6 5 | 11 26 | 11 31 | 10 34 | 7 43 | 6 14 |
| T 17 | 9 27 | 15 6 | 1 25 | 20 14 | 3 7 | 7 34 | 0 54 | 14 1 | 1 27 | 12 7 | 0 59 | 20 26 | 0 44 | 23 41 | 0 14 | 1 45 | 1 27 | 24 9 | 6 5 | 11 26 | 11 30 | 10 36 | 7 41 | 6 15 |
| F 18 | 9 49 | 17 11 | 2 26 | 20 25 | 3 7 | 7 10 | 0 58 | 13 50 | 1 28 | 12 11 | 0 59 | 20 26 | 0 44 | 23 41 | 0 14 | 1 45 | 1 27 | 24 9 | 6 5 | 11 26 | 11 29 | 10 37 | 7 39 | 6 15 |
| S 19 | 10 11 | 18 32 | 3 22 | 20 33 | 3 6 | 6 46 | 1 1 | 13 38 | 1 29 | 12 16 | 0 59 | 20 25 | 0 44 | 23 41 | 0 14 | 1 46 | 1 27 | 24 9 | 6 5 | 11 26 | 11 28 | 10 39 | 7 37 | 6 16 |
| S 20 | 10 32 | 19 3 | 4 9 | 20 39 | 3 4 | 6 21 | 1 4 | 13 27 | 1 29 | 12 20 | 0 59 | 20 25 | 0 44 | 23 41 | 0 14 | 1 46 | 1 27 | 24 9 | 6 6 | 11 26 | 11 26 | 10 40 | 7 35 | 6 16 |
| M21 | 10 54 | 18 40 | 4 45 | 20 41 | 3 2 | 5 57 | 1 7 | 13 15 | 1 30 | 12 25 | 0 58 | 20 25 | 0 44 | 23 41 | 0 14 | 1 47 | 1 27 | 24 9 | 6 6 | 11 26 | 11 25 | 10 42 | 7 33 | 6 17 |
| T 22 | 11 15 | 17 23 | 5 9 | 20 41 | 2 58 | 5 32 | 1 10 | 13 3 | 1 31 | 12 29 | 0 58 | 20 24 | 0 44 | 23 42 | 0 14 | 1 47 | 1 27 | 24 9 | 6 6 | 11 26 | 11 24 | 10 44 | 7 31 | 6 17 |
| W23 | 11 36 | 15 12 | 5 18 | 20 38 | 2 53 | 5 6 | 1 13 | 12 52 | 1 31 | 12 33 | 0 58 | 20 24 | 0 44 | 23 42 | 0 14 | 1 48 | 1 27 | 24 10 | 6 6 | 11 26 | 11 23 | 10 45 | 7 28 | 6 18 |
| T 24 | 11 57 | 12 10 | 5 11 | 20 31 | 2 46 | 4 41 | 1 15 | 12 40 | 1 32 | 12 38 | 0 58 | 20 24 | 0 44 | 23 42 | 0 14 | 1 48 | 1 27 | 24 10 | 6 6 | 11 26 | 11 22 | 10 47 | 7 26 | 6 18 |
| F 25 | 12 18 | 8 23 | 4 46 | 20 20 | 2 38 | 4 15 | 1 18 | 12 29 | 1 33 | 12 42 | 0 58 | 20 23 | 0 44 | 23 42 | 0 14 | 1 49 | 1 27 | 24 10 | 6 7 | 11 26 | 11 21 | 10 48 | 7 24 | 6 19 |
| S 26 | 12 39 | 4 1 | 4 3 | 20 5 | 2 29 | 3 50 | 1 21 | 12 17 | 1 33 | 12 47 | 0 58 | 20 23 | 0 44 | 23 42 | 0 14 | 1 49 | 1 27 | 24 10 | 6 7 | 11 26 | 11 20 | 10 50 | 7 22 | 6 19 |
| S 27 | 12 59 | 0n42 | 3 4 | 19 45 | 2 17 | 3 24 | 1 23 | 12 5 | 1 34 | 12 51 | 0 58 | 20 22 | 0 44 | 23 42 | 0 14 | 1 50 | 1 27 | 24 10 | 6 7 | 11 27 | 11 19 | 10 51 | 7 20 | 6 20 |
| M28 | 13 19 | 5 30 | 1 50 | 19 22 | 2 4 | 2 58 | 1 26 | 11 53 | 1 35 | 12 55 | 0 58 | 20 22 | 0 44 | 23 42 | 0 14 | 1 50 | 1 27 | 24 10 | 6 7 | 11 27 | 11 18 | 10 53 | 7 18 | 6 20 |
| T 29 | 13 39 | 10 3 | 0 28 | 18 54 | 1 50 | 2 31 | 1 28 | 11 42 | 1 35 | 13 0 | 0 58 | 20 21 | 0 44 | 23 42 | 0 14 | 1 51 | 1 27 | 24 10 | 6 8 | 11 27 | 11 16 | 10 55 | 7 16 | 6 21 |
| W30 | 13 59 | 13 57 | 0 s56 | 18 22 | 1 33 | 2 5 | 1 30 | 11 30 | 1 36 | 13 4 | 0 58 | 20 21 | 0 44 | 23 42 | 0 14 | 1 51 | 1 27 | 24 11 | 6 8 | 11 27 | 11 15 | 10 56 | 7 14 | 6 21 |
| T 31 | 14 s18 | 16n53 | 2 s16 | 17 s46 | 1 s15 | 1n38 | 1n32 | 11n18 | 1n37 | 13 s 8 | 0n58 | 20 s20 | 0 s44 | 23n42 | 0n14 | 1 s52 | 1 s27 | 24n11 | 6n 8 | 11 s27 | 11 s14 | 10 s58 | 7n13 | 6 s22 |

Julian Day Number = 2341150.5, Delta T = 15.10 sec
Ecliptic obliquity = 23°28'36, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'16, Lahiri = 19°38'16Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## NOVEMBER 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 2 43 53 | 9♏20'27 | 10♊ 3 | 14°R28 | 0♎37 | 5♍16 | 7♏46 | 2♒35 | 1°R36 | 28°R38 | 8♌ 8 | 29°R51 | 29♎14 | 28♎23 | 25♌ 3 | F 1 |
| S 2 | 2 47 50 | 10°20'40 | 24°37 | 13♏12 | 1°49 | 5°50 | 7°59 | 2°38 | 1♋34 | 28♓37 | 8° 9 | 29♎50 | 29°11 | 28°30 | 25° 7 | S 2 |
| S 3 | 2 51 47 | 11°20'55 | 8♋44 | 11°52 | 3° 1 | 6°23 | 8°12 | 2°41 | 1°33 | 28°35 | 8° 9 | 29°49 | 29° 7 | 28°36 | 25°11 | S 3 |
| M 4 | 2 55 43 | 12°21'12 | 22°25 | 10°33 | 4°13 | 6°57 | 8°25 | 2°43 | 1°32 | 28°34 | 8° 9 | 29°48 | 29° 4 | 28°43 | 25°15 | M 4 |
| T 5 | 2 59 40 | 13°21'31 | 5♌38 | 9°17 | 5°25 | 7°30 | 8°39 | 2°46 | 1°30 | 28°33 | 8° 9 | 29°47 | 29° 1 | 28°50 | 25°19 | T 5 |
| W 6 | 3 3 36 | 14°21'52 | 18°26 | 8° 6 | 6°37 | 8° 4 | 8°52 | 2°49 | 1°29 | 28°32 | 8° 9 | 29°D47 | 28°58 | 28°56 | 25°23 | W 6 |
| T 7 | 3 7 33 | 15°22'14 | 0♍53 | 7° 2 | 7°49 | 8°37 | 9° 5 | 2°53 | 1°27 | 28°31 | 8° 9 | 29°47 | 28°55 | 29° 3 | 25°26 | T 7 |
| F 8 | 3 11 29 | 16°22'39 | 13° 4 | 6° 7 | 9° 2 | 9°10 | 9°18 | 2°56 | 1°26 | 28°30 | 8°R 9 | 29°49 | 28°51 | 29° 9 | 25°30 | F 8 |
| S 9 | 3 15 26 | 17°23'06 | 25° 3 | 5°23 | 10°14 | 9°43 | 9°31 | 2°59 | 1°24 | 28°29 | 8° 9 | 29°50 | 28°48 | 29°16 | 25°33 | S 9 |
| S 10 | 3 19 22 | 18°23'34 | 6♎55 | 4°50 | 11°27 | 10°16 | 9°44 | 3° 2 | 1°22 | 28°28 | 8° 9 | 29°52 | 28°45 | 29°23 | 25°37 | S 10 |
| M11 | 3 23 19 | 19°24'04 | 18°42 | 4°28 | 12°40 | 10°49 | 9°57 | 3° 6 | 1°21 | 28°27 | 8° 9 | 29°53 | 28°42 | 29°29 | 25°40 | M11 |
| T 12 | 3 27 16 | 20°24'36 | 0♏28 | 4°D19 | 13°52 | 11°21 | 10°10 | 3° 9 | 1°19 | 28°26 | 8° 9 | 29°R53 | 28°39 | 29°36 | 25°43 | T 12 |
| W13 | 3 31 12 | 21°25'10 | 12°17 | 4°20 | 15° 5 | 11°54 | 10°24 | 3°13 | 1°17 | 28°26 | 8° 9 | 29°53 | 28°36 | 29°43 | 25°46 | W13 |
| T 14 | 3 35 9 | 22°25'45 | 24°10 | 4°33 | 16°18 | 12°26 | 10°37 | 3°17 | 1°15 | 28°25 | 8° 9 | 29°51 | 28°32 | 29°49 | 25°49 | T 14 |
| F 15 | 3 39 5 | 23°26'22 | 6♐10 | 4°55 | 17°31 | 12°59 | 10°50 | 3°21 | 1°13 | 28°24 | 8° 9 | 29°48 | 28°29 | 29°56 | 25°52 | F 15 |
| S 16 | 3 43 2 | 24°27'00 | 18°18 | 5°26 | 18°44 | 13°31 | 11° 3 | 3°24 | 1°12 | 28°23 | 8° 8 | 29°44 | 28°26 | 0♏ 3 | 25°54 | S 16 |
| S 17 | 3 46 58 | 25°27'39 | 0♑35 | 6° 5 | 19°57 | 14° 3 | 11°16 | 3°28 | 1°10 | 28°22 | 8° 8 | 29°39 | 28°23 | 0° 9 | 25°57 | S 17 |
| M18 | 3 50 55 | 26°28'20 | 13° 4 | 6°52 | 21°11 | 14°35 | 11°29 | 3°32 | 1° 8 | 28°22 | 8° 8 | 29°35 | 28°20 | 0°16 | 25°59 | M18 |
| T 19 | 3 54 51 | 27°29'02 | 25°46 | 7°45 | 22°24 | 15° 7 | 11°42 | 3°37 | 1° 6 | 28°21 | 8° 8 | 29°31 | 28°17 | 0°23 | 26° 2 | T 19 |
| W20 | 3 58 48 | 28°29'46 | 8♒43 | 8°43 | 23°37 | 15°39 | 11°55 | 3°41 | 1° 4 | 28°20 | 8° 7 | 29°28 | 28°13 | 0°29 | 26° 4 | W20 |
| T 21 | 4 2 45 | 29°30'30 | 21°58 | 9°46 | 24°50 | 16°10 | 12° 7 | 3°45 | 1° 2 | 28°20 | 8° 7 | 29°27 | 28°10 | 0°36 | 26° 6 | T 21 |
| F 22 | 4 6 41 | 0♗31'15 | 5♓31 | 10°54 | 26° 4 | 16°42 | 12°20 | 3°49 | 0°59 | 28°19 | 8° 7 | 29°D26 | 28° 7 | 0°42 | 26° 8 | F 22 |
| S 23 | 4 10 38 | 1°32'01 | 19°25 | 12° 5 | 27°17 | 17°13 | 12°33 | 3°54 | 0°57 | 28°19 | 8° 6 | 29°27 | 28° 4 | 0°49 | 26°10 | S 23 |
| S 24 | 4 14 34 | 2°32'48 | 3♈40 | 13°19 | 28°31 | 17°44 | 12°46 | 3°58 | 0°55 | 28°18 | 8° 6 | 29°29 | 28° 1 | 0°56 | 26°12 | S 24 |
| M25 | 4 18 31 | 3°33'36 | 18°13 | 14°36 | 29°45 | 18°15 | 12°59 | 4° 3 | 0°53 | 28°18 | 8° 5 | 29°30 | 27°57 | 1° 2 | 26°14 | M25 |
| T 26 | 4 22 27 | 4°34'25 | 3♉ 3 | 15°56 | 0♏58 | 18°46 | 13°11 | 4° 8 | 0°51 | 28°17 | 8° 5 | 29°R31 | 27°54 | 1° 9 | 26°15 | T 26 |
| W27 | 4 26 24 | 5°35'15 | 18° 2 | 17°17 | 2°12 | 19°17 | 13°24 | 4°12 | 0°49 | 28°17 | 8° 4 | 29°29 | 27°51 | 1°16 | 26°17 | W27 |
| T 28 | 4 30 20 | 6°36'07 | 3♊ 3 | 18°40 | 3°26 | 19°48 | 13°37 | 4°17 | 0°46 | 28°16 | 8° 4 | 29°26 | 27°48 | 1°22 | 26°18 | T 28 |
| F 29 | 4 34 17 | 7°36'59 | 17°56 | 20° 4 | 4°40 | 20°18 | 13°50 | 4°22 | 0°44 | 28°16 | 8° 3 | 29°21 | 27°45 | 1°29 | 26°19 | F 29 |
| S 30 | 4 38 14 | 8♗37'52 | 2♋34 | 21♏30 | 5♏53 | 20♍49 | 14♏ 2 | 4♒27 | 0♋42 | 28♓16 | 8♌ 3 | 29♎15 | 27♎42 | 1♏36 | 26♌20 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 14s38 | 18n36 | 3s25 | 17s 6 | 0s56 | 1n12 | 1n34 | 11n 6 | 1n37 | 13s12 | 0n58 | 20s20 | 0s44 | 23n42 | 0n14 | 1s52 | 1s27 | 24n11 | 6n 8 | 11s26 | 11s13 | 10s59 | 7n11 | 6s22 |
| S 2 | 14 57 | 19 3 | 4 20 | 16 24 | 0 36 | 0 45 | 1 36 | 10 54 | 1 38 | 13 17 | 0 58 | 20 19 | 0 44 | 23 42 | 0 14 | 1 53 | 1 27 | 24 11 | 6 9 | 11 26 | 11 12 | 11 1 | 7 9 | 6 23 |
| S 3 | 15 16 | 18 16 | 4 56 | 15 40 | 0 16 | 0 18 | 1 38 | 10 43 | 1 39 | 13 21 | 0 58 | 20 18 | 0 44 | 23 42 | 0 14 | 1 53 | 1 26 | 24 11 | 6 9 | 11 25 | 11 11 | 11 2 | 7 7 | 6 23 |
| M 4 | 15 34 | 16 26 | 5 15 | 14 56 | 0n 5 | 0s 9 | 1 39 | 10 31 | 1 39 | 13 25 | 0 58 | 20 18 | 0 44 | 23 42 | 0 14 | 1 53 | 1 26 | 24 11 | 6 9 | 11 25 | 11 10 | 11 4 | 7 5 | 6 24 |
| T 5 | 15 52 | 13 47 | 5 16 | 14 12 | 0 25 | 0 36 | 1 41 | 10 19 | 1 40 | 13 30 | 0 58 | 20 17 | 0 44 | 23 42 | 0 14 | 1 54 | 1 26 | 24 12 | 6 9 | 11 25 | 11 8 | 11 5 | 7 3 | 6 25 |
| W 6 | 16 10 | 10 33 | 5 1 | 13 31 | 0 45 | 1 4 | 1 43 | 10 7 | 1 41 | 13 34 | 0 58 | 20 16 | 0 44 | 23 42 | 0 14 | 1 54 | 1 26 | 24 12 | 6 10 | 11 25 | 11 7 | 11 7 | 7 2 | 6 25 |
| T 7 | 16 28 | 6 56 | 4 32 | 12 53 | 1 3 | 1 31 | 1 44 | 9 55 | 1 41 | 13 38 | 0 58 | 20 16 | 0 44 | 23 42 | 0 14 | 1 55 | 1 26 | 24 12 | 6 10 | 11 25 | 11 6 | 11 8 | 7 0 | 6 26 |
| F 8 | 16 46 | 3 6 | 3 51 | 12 19 | 1 20 | 1 58 | 1 45 | 9 43 | 1 42 | 13 42 | 0 58 | 20 15 | 0 44 | 23 42 | 0 14 | 1 55 | 1 26 | 24 12 | 6 10 | 11 25 | 11 5 | 11 10 | 6 58 | 6 26 |
| S 9 | 17 3 | 0s48 | 3 1 | 11 51 | 1 35 | 2 26 | 1 47 | 9 31 | 1 43 | 13 46 | 0 58 | 20 14 | 0 44 | 23 42 | 0 14 | 1 55 | 1 26 | 24 13 | 6 10 | 11 26 | 11 4 | 11 12 | 6 57 | 6 27 |
| S 10 | 17 20 | 4 39 | 2 4 | 11 28 | 1 48 | 2 53 | 1 48 | 9 20 | 1 44 | 13 51 | 0 58 | 20 13 | 0 44 | 23 42 | 0 14 | 1 56 | 1 26 | 24 13 | 6 11 | 11 26 | 11 3 | 11 13 | 6 55 | 6 28 |
| M11 | 17 36 | 8 17 | 1 2 | 11 10 | 1 59 | 3 20 | 1 49 | 9 8 | 1 44 | 13 55 | 0 58 | 20 13 | 0 44 | 23 42 | 0 14 | 1 56 | 1 26 | 24 13 | 6 11 | 11 27 | 11 2 | 11 15 | 6 53 | 6 28 |
| T 12 | 17 53 | 11 36 | 0n 3 | 10 58 | 2 8 | 3 48 | 1 50 | 8 56 | 1 45 | 13 59 | 0 58 | 20 12 | 0 44 | 23 42 | 0 14 | 1 56 | 1 26 | 24 13 | 6 11 | 11 27 | 11 1 | 11 16 | 6 52 | 6 29 |
| W13 | 18 9 | 14 28 | 1 8 | 10 52 | 2 15 | 4 15 | 1 51 | 8 44 | 1 46 | 14 3 | 0 58 | 20 11 | 0 44 | 23 42 | 0 14 | 1 57 | 1 26 | 24 14 | 6 11 | 11 27 | 10 59 | 11 18 | 6 50 | 6 29 |
| T 14 | 18 24 | 16 44 | 2 10 | 10 51 | 2 20 | 4 42 | 1 51 | 8 32 | 1 46 | 14 7 | 0 58 | 20 10 | 0 44 | 23 42 | 0 14 | 1 57 | 1 26 | 24 14 | 6 12 | 11 26 | 10 58 | 11 19 | 6 49 | 6 30 |
| F 15 | 18 40 | 18 18 | 3 7 | 10 55 | 2 24 | 5 10 | 1 52 | 8 21 | 1 47 | 14 11 | 0 58 | 20 9 | 0 44 | 23 42 | 0 14 | 1 57 | 1 26 | 24 14 | 6 12 | 11 25 | 10 57 | 11 21 | 6 47 | 6 31 |
| S 16 | 18 55 | 19 3 | 3 56 | 11 4 | 2 26 | 5 37 | 1 53 | 8 9 | 1 48 | 14 15 | 0 58 | 20 8 | 0 44 | 23 42 | 0 14 | 1 57 | 1 26 | 24 14 | 6 12 | 11 24 | 10 56 | 11 22 | 6 46 | 6 31 |
| S 17 | 19 9 | 18 54 | 4 35 | 11 16 | 2 27 | 6 4 | 1 53 | 7 57 | 1 49 | 14 19 | 0 58 | 20 7 | 0 44 | 23 42 | 0 14 | 1 58 | 1 26 | 24 15 | 6 12 | 11 22 | 10 55 | 11 24 | 6 44 | 6 32 |
| M18 | 19 24 | 17 50 | 5 1 | 11 31 | 2 26 | 6 31 | 1 54 | 7 45 | 1 49 | 14 23 | 0 58 | 20 7 | 0 44 | 23 42 | 0 14 | 1 58 | 1 26 | 24 15 | 6 12 | 11 21 | 10 54 | 11 25 | 6 43 | 6 32 |
| T 19 | 19 38 | 15 54 | 5 13 | 11 50 | 2 25 | 6 58 | 1 54 | 7 34 | 1 50 | 14 27 | 0 57 | 20 6 | 0 44 | 23 42 | 0 14 | 1 58 | 1 26 | 24 15 | 6 13 | 11 19 | 10 53 | 11 27 | 6 42 | 6 33 |
| W20 | 19 51 | 13 7 | 5 10 | 12 10 | 2 23 | 7 25 | 1 54 | 7 22 | 1 51 | 14 31 | 0 57 | 20 5 | 0 44 | 23 43 | 0 14 | 1 58 | 1 26 | 24 16 | 6 13 | 11 18 | 10 52 | 11 28 | 6 40 | 6 34 |
| T 21 | 20 5 | 9 38 | 4 50 | 12 33 | 2 20 | 7 52 | 1 54 | 7 10 | 1 51 | 14 35 | 0 57 | 20 4 | 0 44 | 23 43 | 0 14 | 1 59 | 1 26 | 24 16 | 6 13 | 11 18 | 10 50 | 11 30 | 6 39 | 6 34 |
| F 22 | 20 17 | 5 34 | 4 14 | 12 58 | 2 16 | 8 18 | 1 54 | 6 59 | 1 52 | 14 39 | 0 57 | 20 3 | 0 44 | 23 43 | 0 14 | 1 59 | 1 26 | 24 16 | 6 13 | 11 18 | 10 49 | 11 31 | 6 38 | 6 35 |
| S 23 | 20 30 | 1 6 | 3 22 | 13 24 | 2 11 | 8 45 | 1 54 | 6 47 | 1 53 | 14 43 | 0 57 | 20 2 | 0 44 | 23 43 | 0 14 | 1 59 | 1 26 | 24 17 | 6 14 | 11 18 | 10 48 | 11 33 | 6 36 | 6 35 |
| S 24 | 20 42 | 3n33 | 2 17 | 13 51 | 2 6 | 9 11 | 1 54 | 6 36 | 1 54 | 14 47 | 0 57 | 20 0 | 0 44 | 23 43 | 0 14 | 1 59 | 1 26 | 24 17 | 6 14 | 11 18 | 10 47 | 11 34 | 6 35 | 6 36 |
| M25 | 20 54 | 8 6 | 1 1 | 14 19 | 2 1 | 9 37 | 1 54 | 6 24 | 1 54 | 14 51 | 0 57 | 19 59 | 0 44 | 23 43 | 0 14 | 1 59 | 1 26 | 24 17 | 6 14 | 11 19 | 10 46 | 11 36 | 6 34 | 6 37 |
| T 26 | 21 5 | 12 15 | 0s19 | 14 48 | 1 55 | 10 3 | 1 53 | 6 13 | 1 55 | 14 55 | 0 57 | 19 58 | 0 44 | 23 43 | 0 14 | 2 0 | 1 26 | 24 18 | 6 14 | 11 19 | 10 45 | 11 37 | 6 33 | 6 37 |
| W27 | 21 16 | 15 38 | 1 39 | 15 17 | 1 49 | 10 29 | 1 53 | 6 1 | 1 56 | 14 58 | 0 58 | 19 57 | 0 44 | 23 43 | 0 14 | 2 0 | 1 26 | 24 18 | 6 15 | 11 19 | 10 44 | 11 39 | 6 32 | 6 38 |
| T 28 | 21 27 | 17 58 | 2 53 | 15 46 | 1 42 | 10 55 | 1 53 | 5 50 | 1 57 | 15 2 | 0 58 | 19 56 | 0 44 | 23 43 | 0 14 | 2 0 | 1 26 | 24 18 | 6 15 | 11 17 | 10 42 | 11 40 | 6 31 | 6 39 |
| F 29 | 21 37 | 19 3 | 3 53 | 16 15 | 1 35 | 11 20 | 1 52 | 5 39 | 1 57 | 15 6 | 0 58 | 19 55 | 0 44 | 23 43 | 0 14 | 2 0 | 1 26 | 24 19 | 6 15 | 11 16 | 10 41 | 11 42 | 6 30 | 6 39 |
| S 30 | 21s47 | 18n49 | 4s38 | 16s44 | 1n29 | 11s45 | 1n51 | 5n27 | 1n58 | 15s10 | 0n58 | 19s54 | 0s44 | 23n43 | 0n14 | 2s 0 | 1s26 | 24n19 | 6n15 | 11s14 | 10s40 | 11s43 | 6n29 | 6s40 |

Julian Day Number = 2341181.5, Delta T = 15.07 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'20, Lahiri = 19°38'21Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1697
# geocentric

## DECEMBER 1697 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 4 42 10 | 9♐38'47 | 16♋50 | 22♏56 | 7♏ 7 | 21♍19 | 14♏15 | 4♒32 | 0°R39 | 28°R15 | 8°R 2 | 29°R 9 | 27♎38 | 1♏42 | 26♌21 | S 1 |
| M 2 | 4 46 7 | 10°39'43 | 0♌39 | 24°24 | 8°21 | 21°49 | 14°27 | 4°37 | 0♋37 | 28♓15 | 8♌ 2 | 29♎ 2 | 27°35 | 1°49 | 26°22 | M 2 |
| T 3 | 4 50 3 | 11°40'40 | 13°59 | 25°52 | 9°35 | 22°19 | 14°40 | 4°42 | 0°35 | 28°15 | 8° 1 | 28°57 | 27°32 | 1°56 | 26°23 | T 3 |
| W 4 | 4 54 0 | 12°41'38 | 26°53 | 27°21 | 10°49 | 22°48 | 14°52 | 4°48 | 0°32 | 28°15 | 8° 0 | 28°54 | 27°29 | 2° 2 | 26°24 | W 4 |
| T 5 | 4 57 56 | 13°42'37 | 9♍24 | 28°50 | 12° 4 | 23°18 | 15° 4 | 4°53 | 0°30 | 28°15 | 8° 0 | 28°D53 | 27°26 | 2° 9 | 26°24 | T 5 |
| F 6 | 5 1 53 | 14°43'37 | 21°36 | 0♐20 | 13°18 | 23°47 | 15°17 | 4°58 | 0°27 | 28°15 | 7°59 | 28°53 | 27°23 | 2°16 | 26°25 | F 6 |
| S 7 | 5 5 50 | 15°44'39 | 3♎34 | 1°51 | 14°32 | 24°17 | 15°29 | 5° 4 | 0°25 | 28°14 | 7°58 | 28°54 | 27°19 | 2°22 | 26°25 | S 7 |
| S 8 | 5 9 46 | 16°45'42 | 15°23 | 3°21 | 15°46 | 24°46 | 15°41 | 5° 9 | 0°22 | 28°14 | 7°57 | 28°55 | 27°16 | 2°29 | 26°25 | S 8 |
| M 9 | 5 13 43 | 17°46'45 | 27° 9 | 4°52 | 17° 0 | 25°15 | 15°54 | 5°15 | 0°20 | 28°D14 | 7°57 | 28°R56 | 27°13 | 2°35 | 26°R25 | M 9 |
| T 10 | 5 17 39 | 18°47'50 | 8♏56 | 6°24 | 18°15 | 25°43 | 16° 6 | 5°20 | 0°17 | 28°14 | 7°56 | 28°56 | 27°10 | 2°42 | 26°25 | T 10 |
| W11 | 5 21 36 | 19°48'55 | 20°49 | 7°55 | 19°29 | 26°12 | 16°18 | 5°26 | 0°15 | 28°15 | 7°55 | 28°53 | 27° 7 | 2°49 | 26°25 | W11 |
| T 12 | 5 25 32 | 20°50'01 | 2♐49 | 9°27 | 20°43 | 26°40 | 16°30 | 5°32 | 0°12 | 28°15 | 7°54 | 28°48 | 27° 3 | 2°55 | 26°25 | T 12 |
| F 13 | 5 29 29 | 21°51'08 | 15° 0 | 10°59 | 21°58 | 27° 8 | 16°42 | 5°38 | 0°10 | 28°15 | 7°53 | 28°40 | 27° 0 | 3° 2 | 26°25 | F 13 |
| S 14 | 5 33 25 | 22°52'16 | 27°23 | 12°31 | 23°12 | 27°36 | 16°54 | 5°43 | 0° 7 | 28°15 | 7°52 | 28°31 | 26°57 | 3° 9 | 26°24 | S 14 |
| S 15 | 5 37 22 | 23°53'24 | 9♑58 | 14° 3 | 24°27 | 28° 4 | 17° 5 | 5°49 | 0° 5 | 28°15 | 7°51 | 28°20 | 26°54 | 3°15 | 26°24 | S 15 |
| M16 | 5 41 19 | 24°54'33 | 22°46 | 15°36 | 25°41 | 28°31 | 17°17 | 5°55 | 0° 2 | 28°15 | 7°50 | 28° 9 | 26°51 | 3°22 | 26°23 | M16 |
| T 17 | 5 45 15 | 25°55'42 | 5♒45 | 17° 9 | 26°56 | 28°58 | 17°29 | 6° 1 | 29♊59 | 28°16 | 7°49 | 27°59 | 26°48 | 3°29 | 26°22 | T 17 |
| W18 | 5 49 12 | 26°56'51 | 18°57 | 18°42 | 28°10 | 29°25 | 17°41 | 6° 7 | 29°57 | 28°16 | 7°48 | 27°51 | 26°44 | 3°35 | 26°21 | W18 |
| T 19 | 5 53 8 | 27°58'00 | 2♓20 | 20°15 | 29°25 | 29°52 | 17°52 | 6°14 | 29°54 | 28°16 | 7°47 | 27°46 | 26°41 | 3°42 | 26°20 | T 19 |
| F 20 | 5 57 5 | 28°59'09 | 15°55 | 21°48 | 0♐40 | 0♎19 | 18° 4 | 6°20 | 29°52 | 28°17 | 7°46 | 27°43 | 26°38 | 3°49 | 26°19 | F 20 |
| S 21 | 6 1 1 | 0♑ 0'19 | 29°42 | 23°22 | 1°54 | 0°45 | 18°15 | 6°26 | 29°49 | 28°17 | 7°45 | 27°D42 | 26°35 | 3°55 | 26°18 | S 21 |
| S 22 | 6 4 58 | 1° 1'28 | 13♈43 | 24°56 | 3° 9 | 1°11 | 18°26 | 6°32 | 29°46 | 28°17 | 7°44 | 27°42 | 26°32 | 4° 2 | 26°17 | S 22 |
| M23 | 6 8 54 | 2° 2'37 | 27°56 | 26°30 | 4°23 | 1°37 | 18°38 | 6°38 | 29°44 | 28°18 | 7°43 | 27°R43 | 26°28 | 4° 8 | 26°15 | M23 |
| T 24 | 6 12 51 | 3° 3'46 | 12♉21 | 28° 4 | 5°38 | 2° 3 | 18°49 | 6°45 | 29°41 | 28°18 | 7°42 | 27°42 | 26°25 | 4°15 | 26°14 | T 24 |
| W25 | 6 16 48 | 4° 4'55 | 26°55 | 29°39 | 6°53 | 2°28 | 19° 0 | 6°51 | 29°39 | 28°19 | 7°41 | 27°39 | 26°22 | 4°22 | 26°12 | W25 |
| T 26 | 6 20 44 | 5° 6'05 | 11♊32 | 1♑14 | 8° 7 | 2°54 | 19°11 | 6°58 | 29°36 | 28°20 | 7°40 | 27°33 | 26°19 | 4°28 | 26°10 | T 26 |
| F 27 | 6 24 41 | 6° 7'14 | 26° 7 | 2°49 | 9°22 | 3°18 | 19°22 | 7° 4 | 29°34 | 28°20 | 7°39 | 27°24 | 26°16 | 4°35 | 26° 8 | F 27 |
| S 28 | 6 28 37 | 7° 8'23 | 10♋31 | 4°25 | 10°37 | 3°43 | 19°33 | 7°11 | 29°31 | 28°21 | 7°38 | 27°13 | 26°13 | 4°42 | 26° 6 | S 28 |
| S 29 | 6 32 34 | 8° 9'32 | 24°40 | 6° 1 | 11°52 | 4° 7 | 19°44 | 7°17 | 29°28 | 28°22 | 7°36 | 27° 2 | 26° 9 | 4°48 | 26° 4 | S 29 |
| M30 | 6 36 30 | 9°10'41 | 8♌26 | 7°37 | 13° 6 | 4°32 | 19°54 | 7°24 | 29°26 | 28°22 | 7°35 | 26°50 | 26° 6 | 4°55 | 26° 2 | M30 |
| T 31 | 6 40 27 | 10♑11'50 | 21♌48 | 9♑14 | 14♐21 | 4♎55 | 20♏ 5 | 7♒30 | 29♊23 | 28♓23 | 7♌34 | 26♎40 | 26♎ 3 | 5♏ 2 | 26♌ 0 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ⚸ | ☊ | ⚷ | | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| S 1 | 21s56 | 17n24 | 5s 3 | 17s13 | 1n22 | 12s10 | 1n51 | 5n16 | 1n59 | 15s13 | 0n58 | 19s52 | 0s44 | 23n43 | 0n14 | 2s 0 | 1s25 | 24n19 | 6n15 | 11s11 | 10s39 | 11s45 | 6n28 | 6s40 | |
| M 2 | 22 5 | 15 0 | 5 10 | 17 42 | 1 14 | 12 35 | 1 50 | 5 5 | 2 0 | 15 17 | 0 58 | 19 51 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 20 | 6 16 | 11 9 | 10 38 | 11 46 | 6 27 | 6 41 | |
| T 3 | 22 13 | 11 52 | 5 0 | 18 10 | 1 7 | 12 59 | 1 49 | 4 54 | 2 0 | 15 21 | 0 58 | 19 50 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 20 | 6 16 | 11 7 | 10 37 | 11 47 | 6 26 | 6 42 | |
| W 4 | 22 21 | 8 16 | 4 34 | 18 38 | 1 0 | 13 23 | 1 48 | 4 43 | 2 1 | 15 24 | 0 58 | 19 49 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 21 | 6 16 | 11 6 | 10 36 | 11 49 | 6 25 | 6 42 | |
| T 5 | 22 29 | 4 24 | 3 56 | 19 5 | 0 53 | 13 47 | 1 47 | 4 32 | 2 2 | 15 28 | 0 58 | 19 48 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 21 | 6 16 | 11 5 | 10 34 | 11 50 | 6 25 | 6 43 | |
| F 6 | 22 36 | 0 27 | 3 8 | 19 31 | 0 45 | 14 10 | 1 46 | 4 21 | 2 3 | 15 31 | 0 58 | 19 46 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 21 | 6 17 | 11 6 | 10 33 | 11 52 | 6 24 | 6 44 | |
| S 7 | 22 43 | 3s27 | 2 13 | 19 57 | 0 38 | 14 33 | 1 45 | 4 10 | 2 4 | 15 35 | 0 58 | 19 45 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 22 | 6 17 | 11 6 | 10 32 | 11 53 | 6 23 | 6 44 | |
| S 8 | 22 49 | 7 11 | 1 13 | 20 21 | 0 31 | 14 56 | 1 43 | 3 59 | 2 4 | 15 38 | 0 58 | 19 44 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 22 | 6 17 | 11 6 | 10 31 | 11 55 | 6 23 | 6 45 | |
| M 9 | 22 55 | 10 37 | 0 10 | 20 46 | 0 23 | 15 18 | 1 42 | 3 49 | 2 5 | 15 42 | 0 58 | 19 42 | 0 44 | 23 43 | 0 14 | 2 0 | 1 25 | 24 23 | 6 17 | 11 7 | 10 30 | 11 56 | 6 22 | 6 45 | |
| T 10 | 23 0 | 13 39 | 0n54 | 21 9 | 0 16 | 15 40 | 1 41 | 3 38 | 2 6 | 15 45 | 0 58 | 19 41 | 0 44 | 23 43 | 0 15 | 2 0 | 1 25 | 24 23 | 6 17 | 11 7 | 10 29 | 11 58 | 6 21 | 6 46 | |
| W11 | 23 5 | 16 8 | 1 55 | 21 31 | 0 9 | 16 2 | 1 39 | 3 27 | 2 7 | 15 49 | 0 58 | 19 40 | 0 45 | 23 43 | 0 15 | 2 0 | 1 25 | 24 23 | 6 18 | 11 6 | 10 28 | 11 59 | 6 21 | 6 47 | |
| T 12 | 23 10 | 17 56 | 2 52 | 21 52 | 0 2 | 16 23 | 1 38 | 3 17 | 2 8 | 15 52 | 0 58 | 19 38 | 0 45 | 23 43 | 0 15 | 2 0 | 1 25 | 24 24 | 6 18 | 11 4 | 10 26 | 12 1 | 6 20 | 6 47 | |
| F 13 | 23 14 | 18 57 | 3 42 | 22 13 | 0s 5 | 16 44 | 1 36 | 3 6 | 2 9 | 15 56 | 0 58 | 19 37 | 0 45 | 23 43 | 0 15 | 2 0 | 1 25 | 24 24 | 6 18 | 11 1 | 10 25 | 12 2 | 6 20 | 6 48 | |
| S 14 | 23 17 | 19 5 | 4 22 | 22 32 | 0 12 | 17 5 | 1 35 | 2 56 | 2 9 | 15 59 | 0 58 | 19 35 | 0 45 | 23 43 | 0 15 | 2 0 | 1 25 | 24 25 | 6 18 | 10 58 | 10 24 | 12 3 | 6 19 | 6 48 | |
| S 15 | 23 20 | 18 17 | 4 50 | 22 50 | 0 19 | 17 25 | 1 33 | 2 46 | 2 10 | 16 2 | 0 58 | 19 34 | 0 45 | 23 43 | 0 15 | 2 0 | 1 25 | 24 25 | 6 18 | 10 54 | 10 23 | 12 5 | 6 19 | 6 49 | |
| M16 | 23 23 | 16 34 | 5 4 | 23 7 | 0 26 | 17 44 | 1 31 | 2 36 | 2 11 | 16 6 | 0 58 | 19 32 | 0 45 | 23 43 | 0 15 | 2 0 | 1 25 | 24 26 | 6 19 | 10 50 | 10 22 | 12 6 | 6 19 | 6 50 | |
| T 17 | 23 25 | 13 59 | 5 2 | 23 23 | 0 32 | 18 3 | 1 29 | 2 25 | 2 12 | 16 9 | 0 58 | 19 31 | 0 45 | 23 43 | 0 15 | 1 59 | 1 25 | 24 26 | 6 19 | 10 46 | 10 21 | 12 8 | 6 19 | 6 50 | |
| W18 | 23 26 | 10 39 | 4 45 | 23 38 | 0 39 | 18 22 | 1 27 | 2 15 | 2 13 | 16 12 | 0 58 | 19 30 | 0 45 | 23 43 | 0 15 | 1 59 | 1 25 | 24 26 | 6 19 | 10 44 | 10 20 | 12 9 | 6 18 | 6 51 | |
| T 19 | 23 28 | 6 45 | 4 12 | 23 52 | 0 45 | 18 40 | 1 26 | 2 6 | 2 14 | 16 15 | 0 58 | 19 28 | 0 45 | 23 43 | 0 15 | 1 59 | 1 25 | 24 27 | 6 19 | 10 42 | 10 18 | 12 11 | 6 18 | 6 51 | |
| F 20 | 23 28 | 2 26 | 3 24 | 24 4 | 0 51 | 18 57 | 1 24 | 1 56 | 2 14 | 16 18 | 0 58 | 19 26 | 0 45 | 23 43 | 0 15 | 1 59 | 1 25 | 24 27 | 6 19 | 10 41 | 10 17 | 12 12 | 6 18 | 6 52 | |
| S 21 | 23 29 | 2n 5 | 2 24 | 24 16 | 0 57 | 19 15 | 1 22 | 1 46 | 2 15 | 16 21 | 0 58 | 19 25 | 0 45 | 23 43 | 0 15 | 1 59 | 1 25 | 24 28 | 6 20 | 10 40 | 10 16 | 12 13 | 6 18 | 6 52 | |
| S 22 | 23 28 | 6 33 | 1 14 | 24 26 | 1 3 | 19 31 | 1 19 | 1 36 | 2 16 | 16 25 | 0 58 | 19 23 | 0 45 | 23 43 | 0 15 | 1 58 | 1 25 | 24 28 | 6 20 | 10 40 | 10 15 | 12 15 | 6 18 | 6 53 | |
| M23 | 23 28 | 10 44 | 0s 1 | 24 34 | 1 8 | 19 47 | 1 17 | 1 27 | 2 17 | 16 28 | 0 58 | 19 22 | 0 45 | 23 43 | 0 15 | 1 58 | 1 25 | 24 29 | 6 20 | 10 41 | 10 14 | 12 16 | 6 18 | 6 54 | |
| T 24 | 23 26 | 14 20 | 1 17 | 24 42 | 1 14 | 20 3 | 1 15 | 1 18 | 2 18 | 16 31 | 0 58 | 19 20 | 0 45 | 23 43 | 0 15 | 1 58 | 1 25 | 24 29 | 6 20 | 10 40 | 10 13 | 12 18 | 6 18 | 6 54 | |
| W25 | 23 25 | 17 5 | 2 29 | 24 48 | 1 19 | 20 18 | 1 13 | 1 8 | 2 19 | 16 34 | 0 58 | 19 19 | 0 45 | 23 43 | 0 15 | 1 58 | 1 24 | 24 30 | 6 20 | 10 39 | 10 11 | 12 19 | 6 18 | 6 55 | |
| T 26 | 23 23 | 18 43 | 3 31 | 24 52 | 1 24 | 20 32 | 1 11 | 0 59 | 2 20 | 16 37 | 0 58 | 19 17 | 0 45 | 23 43 | 0 15 | 1 57 | 1 24 | 24 30 | 6 20 | 10 37 | 10 10 | 12 21 | 6 18 | 6 55 | |
| F 27 | 23 20 | 19 6 | 4 19 | 24 56 | 1 29 | 20 46 | 1 8 | 0 50 | 2 21 | 16 39 | 0 59 | 19 16 | 0 45 | 23 43 | 0 15 | 1 57 | 1 24 | 24 31 | 6 21 | 10 34 | 10 9 | 12 22 | 6 18 | 6 56 | |
| S 28 | 23 17 | 18 15 | 4 50 | 24 58 | 1 33 | 20 59 | 1 6 | 0 41 | 2 21 | 16 42 | 0 59 | 19 14 | 0 45 | 23 43 | 0 15 | 1 57 | 1 24 | 24 31 | 6 21 | 10 30 | 10 8 | 12 23 | 6 18 | 6 56 | |
| S 29 | 23 13 | 16 16 | 5 2 | 24 58 | 1 38 | 21 11 | 1 4 | 0 32 | 2 22 | 16 45 | 0 59 | 19 12 | 0 45 | 23 43 | 0 15 | 1 57 | 1 24 | 24 31 | 6 21 | 10 26 | 10 7 | 12 25 | 6 18 | 6 57 | |
| M30 | 23 9 | 13 25 | 4 56 | 24 57 | 1 42 | 21 23 | 1 1 | 0 23 | 2 23 | 16 48 | 0 59 | 19 11 | 0 45 | 23 43 | 0 15 | 1 56 | 1 24 | 24 32 | 6 21 | 10 22 | 10 6 | 12 26 | 6 19 | 6 57 | |
| T 31 | 23s 5 | 9n56 | 4s34 | 24s55 | 1s46 | 21s35 | 0n59 | 0n15 | 2n24 | 16s51 | 0n59 | 19s 9 | 0s45 | 23n43 | 0n15 | 1s56 | 1s24 | 24n32 | 6n21 | 10s18 | 10s 5 | 12s28 | 6n19 | 6s58 | |

Julian Day Number = 2341211.5, Delta T = 15.04 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'24, Lahiri = 19°38'25Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## JANUARY 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 6 44 23 | 11♑13'00 | 4♍45 | 10♑51 | 15♐36 | 5♎19 | 20♏16 | 7♒37 | 29°R21 | 28♓24 | 7°R33 | 26°R32 | 26♎ 0 | 5♏ 8 | 25°R57 | W 1 |
| T 2 | 6 48 20 | 12°14'09 | 17°19 | 12°28 | 16°51 | 5°42 | 20°26 | 7°44 | 29♊18 | 28°25 | 7♌32 | 26♎27 | 25°57 | 5°15 | 25♌55 | T 2 |
| F 3 | 6 52 17 | 13°15'18 | 29°34 | 14° 6 | 18° 6 | 6° 5 | 20°36 | 7°50 | 29°16 | 28°25 | 7°30 | 26°24 | 25°54 | 5°22 | 25°52 | F 3 |
| S 4 | 6 56 13 | 14°16'28 | 11♎34 | 15°44 | 19°20 | 6°28 | 20°47 | 7°57 | 29°13 | 28°26 | 7°29 | 26°D24 | 25°50 | 5°28 | 25°49 | S 4 |
| S 5 | 7 0 10 | 15°17'37 | 23°24 | 17°23 | 20°35 | 6°50 | 20°57 | 8° 4 | 29°11 | 28°27 | 7°28 | 26°R24 | 25°47 | 5°35 | 25°47 | S 5 |
| M 6 | 7 4 6 | 16°18'47 | 5♏11 | 19° 2 | 21°50 | 7°12 | 21° 7 | 8°11 | 29° 8 | 28°28 | 7°27 | 26°23 | 25°44 | 5°42 | 25°44 | M 6 |
| T 7 | 7 8 3 | 17°19'56 | 17° 0 | 20°42 | 23° 5 | 7°34 | 21°17 | 8°18 | 29° 6 | 28°29 | 7°25 | 26°22 | 25°41 | 5°48 | 25°41 | T 7 |
| W 8 | 7 11 59 | 18°21'05 | 28°56 | 22°22 | 24°20 | 7°55 | 21°27 | 8°24 | 29° 4 | 28°30 | 7°24 | 26°18 | 25°38 | 5°55 | 25°38 | W 8 |
| T 9 | 7 15 56 | 19°22'15 | 11♐ 2 | 24° 2 | 25°35 | 8°16 | 21°36 | 8°31 | 29° 1 | 28°31 | 7°23 | 26°11 | 25°34 | 6° 1 | 25°35 | T 9 |
| F 10 | 7 19 52 | 20°23'24 | 23°23 | 25°43 | 26°50 | 8°37 | 21°46 | 8°38 | 28°59 | 28°32 | 7°21 | 26° 1 | 25°31 | 6° 8 | 25°31 | F 10 |
| S 11 | 7 23 49 | 21°24'32 | 6♑ 0 | 27°24 | 28° 5 | 8°57 | 21°56 | 8°45 | 28°57 | 28°33 | 7°20 | 25°49 | 25°28 | 6°15 | 25°28 | S 11 |
| S 12 | 7 27 46 | 22°25'40 | 18°54 | 29° 6 | 29°20 | 9°17 | 22° 5 | 8°52 | 28°54 | 28°35 | 7°19 | 25°36 | 25°25 | 6°21 | 25°25 | S 12 |
| M13 | 7 31 42 | 23°26'48 | 2♒ 4 | 0♒48 | 0♑34 | 9°36 | 22°14 | 8°59 | 28°52 | 28°36 | 7°17 | 25°22 | 25°22 | 6°28 | 25°21 | M13 |
| T 14 | 7 35 39 | 24°27'55 | 15°27 | 2°30 | 1°49 | 9°56 | 22°24 | 9° 6 | 28°50 | 28°37 | 7°16 | 25° 9 | 25°19 | 6°35 | 25°18 | T 14 |
| W15 | 7 39 35 | 25°29'01 | 29° 2 | 4°13 | 3° 4 | 10°14 | 22°33 | 9°13 | 28°47 | 28°38 | 7°15 | 24°58 | 25°15 | 6°41 | 25°14 | W15 |
| T 16 | 7 43 32 | 26°30'06 | 12♓46 | 5°55 | 4°19 | 10°33 | 22°42 | 9°20 | 28°45 | 28°39 | 7°13 | 24°50 | 25°12 | 6°48 | 25°10 | T 16 |
| F 17 | 7 47 28 | 27°31'10 | 26°37 | 7°38 | 5°34 | 10°51 | 22°51 | 9°27 | 28°43 | 28°41 | 7°12 | 24°46 | 25° 9 | 6°55 | 25° 6 | F 17 |
| S 18 | 7 51 25 | 28°32'14 | 10♈33 | 9°21 | 6°49 | 11° 8 | 22°59 | 9°34 | 28°41 | 28°42 | 7°11 | 24°44 | 25° 6 | 7° 1 | 25° 3 | S 18 |
| S 19 | 7 55 21 | 29°33'16 | 24°34 | 11° 3 | 8° 4 | 11°25 | 23° 8 | 9°42 | 28°39 | 28°43 | 7° 9 | 24°43 | 25° 3 | 7° 8 | 24°59 | S 19 |
| M20 | 7 59 18 | 0♒34'17 | 8♉38 | 12°46 | 9°19 | 11°42 | 23°16 | 9°49 | 28°37 | 28°45 | 7° 8 | 24°43 | 25° 0 | 7°15 | 24°55 | M20 |
| T 21 | 8 3 15 | 1°35'17 | 22°46 | 14°27 | 10°34 | 11°58 | 23°25 | 9°56 | 28°35 | 28°46 | 7° 6 | 24°42 | 24°56 | 7°21 | 24°51 | T 21 |
| W22 | 8 7 11 | 2°36'16 | 6♊56 | 16° 8 | 11°49 | 12°14 | 23°33 | 10° 3 | 28°33 | 28°48 | 7° 5 | 24°38 | 24°53 | 7°28 | 24°47 | W22 |
| T 23 | 8 11 8 | 3°37'14 | 21° 6 | 17°48 | 13° 4 | 12°29 | 23°41 | 10°10 | 28°31 | 28°49 | 7° 4 | 24°32 | 24°50 | 7°35 | 24°42 | T 23 |
| F 24 | 8 15 4 | 4°38'10 | 5♋12 | 19°27 | 14°19 | 12°44 | 23°49 | 10°17 | 28°29 | 28°50 | 7° 2 | 24°23 | 24°47 | 7°41 | 24°38 | F 24 |
| S 25 | 8 19 1 | 5°39'06 | 19°11 | 21° 4 | 15°34 | 12°58 | 23°57 | 10°24 | 28°27 | 28°52 | 7° 1 | 24°11 | 24°44 | 7°48 | 24°34 | S 25 |
| S 26 | 8 22 57 | 6°40'00 | 2♌58 | 22°39 | 16°49 | 13°12 | 24° 5 | 10°32 | 28°25 | 28°53 | 6°59 | 23°59 | 24°40 | 7°55 | 24°30 | S 26 |
| M27 | 8 26 54 | 7°40'53 | 16°28 | 24°11 | 18° 3 | 13°25 | 24°12 | 10°39 | 28°23 | 28°55 | 6°58 | 23°46 | 24°37 | 8° 1 | 24°25 | M27 |
| T 28 | 8 30 50 | 8°41'45 | 29°40 | 25°41 | 19°18 | 13°38 | 24°20 | 10°46 | 28°21 | 28°57 | 6°57 | 23°35 | 24°34 | 8° 8 | 24°21 | T 28 |
| W29 | 8 34 47 | 9°42'37 | 12♍31 | 27° 6 | 20°33 | 13°51 | 24°27 | 10°53 | 28°19 | 28°58 | 6°55 | 23°26 | 24°31 | 8°14 | 24°16 | W29 |
| T 30 | 8 38 44 | 10°43'27 | 25° 3 | 28°28 | 21°48 | 14° 2 | 24°34 | 11° 0 | 28°18 | 29° 0 | 6°54 | 23°20 | 24°28 | 8°21 | 24°12 | T 30 |
| F 31 | 8 42 40 | 11♒44'16 | 7♎17 | 29♒44 | 23♑ 3 | 14♎14 | 24♏41 | 11♒ 7 | 28♊16 | 29♓ 2 | 6♌52 | 23♎17 | 24♎25 | 8♏28 | 24♌ 7 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23s 0 | 6n 5 | 3s58 | 24s51 | 1s49 | 21s46 | 0n57 | 0n 6 | 2n25 | 16s54 | 0n59 | 19s 7 | 0s45 | 23n43 | 0n15 | 1s56 | 1s24 | 24n33 | 6n21 | 10s15 | 10s 3 | 12s29 | 6n19 | 6s58 |
| T 2 | 22 55 | 2 4 | 3 12 | 24 45 | 1 52 | 21 56 | 0 54 | 0s 2 | 2 26 | 16 56 | 0 59 | 19 6 | 0 45 | 23 43 | 0 15 | 1 55 | 1 24 | 24 33 | 6 22 | 10 13 | 10 2 | 12 30 | 6 20 | 6 59 |
| F 3 | 22 49 | 1s56 | 2 17 | 24 38 | 1 55 | 22 5 | 0 52 | 0 10 | 2 27 | 16 59 | 0 59 | 19 4 | 0 45 | 23 43 | 0 15 | 1 55 | 1 24 | 24 34 | 6 22 | 10 12 | 10 1 | 12 32 | 6 20 | 6 59 |
| S 4 | 22 43 | 5 47 | 1 18 | 24 30 | 1 58 | 22 14 | 0 49 | 0 18 | 2 28 | 17 2 | 0 59 | 19 2 | 0 45 | 23 43 | 0 15 | 1 54 | 1 24 | 24 34 | 6 22 | 10 12 | 10 0 | 12 33 | 6 21 | 6 59 |
| S 5 | 22 36 | 9 21 | 0 16 | 24 20 | 2 0 | 22 22 | 0 46 | 0 26 | 2 29 | 17 4 | 0 59 | 19 0 | 0 45 | 23 43 | 0 15 | 1 54 | 1 24 | 24 35 | 6 22 | 10 12 | 9 59 | 12 35 | 6 21 | 7 0 |
| M 6 | 22 29 | 12 32 | 0n47 | 24 8 | 2 2 | 22 30 | 0 44 | 0 34 | 2 30 | 17 7 | 0 59 | 18 59 | 0 45 | 23 43 | 0 15 | 1 54 | 1 24 | 24 35 | 6 22 | 10 12 | 9 58 | 12 36 | 6 22 | 7 0 |
| T 7 | 22 21 | 15 14 | 1 47 | 23 55 | 2 4 | 22 36 | 0 41 | 0 42 | 2 31 | 17 9 | 0 59 | 18 57 | 0 45 | 23 43 | 0 15 | 1 53 | 1 24 | 24 36 | 6 22 | 10 11 | 9 56 | 12 37 | 6 22 | 7 1 |
| W 8 | 22 13 | 17 18 | 2 43 | 23 40 | 2 5 | 22 43 | 0 39 | 0 49 | 2 32 | 17 12 | 0 59 | 18 55 | 0 45 | 23 43 | 0 15 | 1 53 | 1 24 | 24 36 | 6 22 | 10 10 | 9 55 | 12 39 | 6 23 | 7 1 |
| T 9 | 22 4 | 18 37 | 3 33 | 23 24 | 2 6 | 22 48 | 0 36 | 0 57 | 2 33 | 17 14 | 0 59 | 18 53 | 0 45 | 23 43 | 0 15 | 1 52 | 1 24 | 24 37 | 6 23 | 10 7 | 9 54 | 12 40 | 6 24 | 7 1 |
| F 10 | 21 56 | 19 5 | 4 14 | 23 6 | 2 6 | 22 53 | 0 33 | 1 4 | 2 34 | 17 17 | 1 0 | 18 52 | 0 46 | 23 43 | 0 15 | 1 52 | 1 24 | 24 37 | 6 23 | 10 4 | 9 53 | 12 41 | 6 24 | 7 2 |
| S 11 | 21 46 | 18 38 | 4 43 | 22 46 | 2 6 | 22 57 | 0 31 | 1 11 | 2 35 | 17 19 | 1 0 | 18 50 | 0 46 | 23 43 | 0 15 | 1 51 | 1 24 | 24 38 | 6 23 | 9 59 | 9 52 | 12 43 | 6 25 | 7 2 |
| S 12 | 21 36 | 17 13 | 4 58 | 22 25 | 2 5 | 23 0 | 0 28 | 1 18 | 2 36 | 17 21 | 1 0 | 18 48 | 0 46 | 23 43 | 0 15 | 1 51 | 1 24 | 24 38 | 6 23 | 9 55 | 9 51 | 12 44 | 6 26 | 7 3 |
| M13 | 21 26 | 14 53 | 4 58 | 22 2 | 2 4 | 23 3 | 0 25 | 1 25 | 2 36 | 17 24 | 1 0 | 18 46 | 0 46 | 23 43 | 0 15 | 1 50 | 1 24 | 24 39 | 6 23 | 9 49 | 9 50 | 12 45 | 6 27 | 7 3 |
| T 14 | 21 16 | 11 44 | 4 42 | 21 37 | 2 3 | 23 5 | 0 23 | 1 31 | 2 37 | 17 26 | 1 0 | 18 44 | 0 46 | 23 43 | 0 15 | 1 50 | 1 24 | 24 39 | 6 23 | 9 45 | 9 48 | 12 47 | 6 28 | 7 3 |
| W15 | 21 5 | 7 56 | 4 9 | 21 11 | 2 1 | 23 6 | 0 20 | 1 38 | 2 38 | 17 28 | 1 0 | 18 43 | 0 46 | 23 43 | 0 15 | 1 49 | 1 24 | 24 40 | 6 23 | 9 41 | 9 47 | 12 48 | 6 28 | 7 3 |
| T 16 | 20 53 | 3 40 | 3 22 | 20 44 | 1 58 | 23 7 | 0 17 | 1 44 | 2 39 | 17 30 | 1 0 | 18 41 | 0 46 | 23 43 | 0 15 | 1 49 | 1 24 | 24 40 | 6 23 | 9 38 | 9 46 | 12 50 | 6 29 | 7 4 |
| F 17 | 20 41 | 0n50 | 2 23 | 20 15 | 1 55 | 23 7 | 0 15 | 1 50 | 2 40 | 17 32 | 1 0 | 18 39 | 0 46 | 23 43 | 0 15 | 1 48 | 1 24 | 24 40 | 6 24 | 9 36 | 9 45 | 12 51 | 6 30 | 7 4 |
| S 18 | 20 29 | 5 19 | 1 14 | 19 44 | 1 51 | 23 6 | 0 12 | 1 56 | 2 41 | 17 35 | 1 0 | 18 37 | 0 46 | 23 43 | 0 15 | 1 48 | 1 24 | 24 41 | 6 24 | 9 36 | 9 44 | 12 52 | 6 31 | 7 4 |
| S 19 | 20 17 | 9 33 | 0 1 | 19 12 | 1 47 | 23 4 | 0 9 | 2 2 | 2 42 | 17 37 | 1 0 | 18 35 | 0 46 | 23 43 | 0 15 | 1 47 | 1 24 | 24 41 | 6 24 | 9 35 | 9 43 | 12 54 | 6 32 | 7 5 |
| M20 | 20 4 | 13 15 | 1s13 | 18 38 | 1 42 | 23 2 | 0 7 | 2 8 | 2 43 | 17 39 | 1 0 | 18 33 | 0 46 | 23 43 | 0 15 | 1 47 | 1 23 | 24 42 | 6 24 | 9 35 | 9 41 | 12 55 | 6 33 | 7 5 |
| T 21 | 19 50 | 16 12 | 2 23 | 18 3 | 1 36 | 22 59 | 0 4 | 2 13 | 2 44 | 17 41 | 1 1 | 18 32 | 0 46 | 23 43 | 0 15 | 1 46 | 1 23 | 24 42 | 6 24 | 9 35 | 9 40 | 12 56 | 6 35 | 7 5 |
| W22 | 19 37 | 18 9 | 3 23 | 17 27 | 1 30 | 22 55 | 0 2 | 2 18 | 2 45 | 17 43 | 1 1 | 18 30 | 0 46 | 23 43 | 0 15 | 1 45 | 1 23 | 24 43 | 6 24 | 9 34 | 9 39 | 12 58 | 6 36 | 7 5 |
| T 23 | 19 22 | 18 59 | 4 12 | 16 50 | 1 22 | 22 51 | 0s 1 | 2 23 | 2 46 | 17 45 | 1 1 | 18 28 | 0 46 | 23 43 | 0 15 | 1 45 | 1 23 | 24 43 | 6 24 | 9 31 | 9 38 | 12 59 | 6 37 | 7 5 |
| F 24 | 19 8 | 18 38 | 4 44 | 16 11 | 1 15 | 22 46 | 0 4 | 2 28 | 2 47 | 17 46 | 1 1 | 18 26 | 0 46 | 23 43 | 0 15 | 1 44 | 1 23 | 24 44 | 6 24 | 9 28 | 9 37 | 13 0 | 6 38 | 7 6 |
| S 25 | 18 53 | 17 9 | 5 0 | 15 32 | 1 6 | 22 40 | 0 6 | 2 33 | 2 48 | 17 48 | 1 1 | 18 24 | 0 46 | 23 43 | 0 15 | 1 44 | 1 23 | 24 44 | 6 24 | 9 24 | 9 36 | 13 2 | 6 39 | 7 6 |
| S 26 | 18 38 | 14 42 | 4 57 | 14 52 | 0 56 | 22 34 | 0 9 | 2 37 | 2 49 | 17 50 | 1 1 | 18 22 | 0 46 | 23 43 | 0 15 | 1 43 | 1 23 | 24 45 | 6 24 | 9 19 | 9 34 | 13 3 | 6 41 | 7 6 |
| M27 | 18 23 | 11 30 | 4 38 | 14 12 | 0 46 | 22 27 | 0 11 | 2 41 | 2 50 | 17 52 | 1 1 | 18 20 | 0 46 | 23 43 | 0 15 | 1 42 | 1 23 | 24 45 | 6 24 | 9 14 | 9 33 | 13 4 | 6 42 | 7 6 |
| T 28 | 18 7 | 7 48 | 4 4 | 13 31 | 0 35 | 22 19 | 0 14 | 2 45 | 2 51 | 17 54 | 1 1 | 18 18 | 0 47 | 23 43 | 0 15 | 1 42 | 1 23 | 24 45 | 6 25 | 9 10 | 9 32 | 13 6 | 6 43 | 7 6 |
| W29 | 17 51 | 3 49 | 3 18 | 12 51 | 0 23 | 22 10 | 0 17 | 2 49 | 2 52 | 17 55 | 1 1 | 18 17 | 0 47 | 23 43 | 0 15 | 1 41 | 1 23 | 24 46 | 6 25 | 9 7 | 9 31 | 13 7 | 6 45 | 7 6 |
| T 30 | 17 34 | 0s14 | 2 24 | 12 11 | 0 10 | 22 1 | 0 19 | 2 53 | 2 53 | 17 57 | 1 1 | 18 15 | 0 47 | 23 43 | 0 15 | 1 40 | 1 23 | 24 46 | 6 25 | 9 5 | 9 30 | 13 8 | 6 46 | 7 6 |
| F 31 | 17s18 | 4s11 | 1s24 | 11s31 | 0n 4 | 21s51 | 0s22 | 2s56 | 2n54 | 17s59 | 1n 2 | 18s13 | 0s47 | 23n43 | 0n15 | 1s40 | 1s23 | 24n47 | 6n25 | 9s 3 | 9s29 | 13s10 | 6n47 | 7s 6 |

Julian Day Number = 2341242.5, Delta T = 15.01 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'29, Lahiri = 19°38'29Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## FEBRUARY 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 46 37 | 12♒45'04 | 19♎18 | 0♓55 | 24♑18 | 14♎24 | 24♏48 | 11♒15 | 28°R14 | 29♓ 3 | 6°R51 | 23°D15 | 24♎21 | 8♏34 | 24°R 3 | S 1 |
| S 2 | 8 50 33 | 13°45'51 | 1♏10 | 1°59 | 25°33 | 14°34 | 24°55 | 11°22 | 28♊13 | 29° 5 | 6♌50 | 23♎15 | 24°18 | 8°41 | 23♌58 | S 2 |
| M 3 | 8 54 30 | 14°46'37 | 12°58 | 2°56 | 26°48 | 14°44 | 25° 2 | 11°29 | 28°11 | 29° 7 | 6°48 | 23°R16 | 24°15 | 8°48 | 23°54 | M 3 |
| T 4 | 8 58 26 | 15°47'22 | 24°48 | 3°46 | 28° 3 | 14°53 | 25° 8 | 11°36 | 28°10 | 29° 8 | 6°47 | 23°15 | 24°12 | 8°54 | 23°49 | T 4 |
| W 5 | 9 2 23 | 16°48'07 | 6♐44 | 4°26 | 29°18 | 15° 1 | 25°15 | 11°43 | 28° 8 | 29°10 | 6°45 | 23°13 | 24° 9 | 9° 1 | 23°44 | W 5 |
| T 6 | 9 6 19 | 17°48'50 | 18°54 | 4°57 | 0♒33 | 15° 9 | 25°21 | 11°50 | 28° 7 | 29°12 | 6°44 | 23° 9 | 24° 6 | 9° 8 | 23°40 | T 6 |
| F 7 | 9 10 16 | 18°49'32 | 1♑19 | 5°18 | 1°48 | 15°16 | 25°27 | 11°58 | 28° 5 | 29°14 | 6°43 | 23° 2 | 24° 2 | 9°14 | 23°35 | F 7 |
| S 8 | 9 14 13 | 19°50'12 | 14° 5 | 5°29 | 3° 3 | 15°22 | 25°33 | 12° 5 | 28° 4 | 29°16 | 6°41 | 22°53 | 23°59 | 9°21 | 23°30 | S 8 |
| S 9 | 9 18 9 | 20°50'52 | 27°11 | 5°R30 | 4°18 | 15°28 | 25°38 | 12°12 | 28° 3 | 29°18 | 6°40 | 22°42 | 23°56 | 9°28 | 23°25 | S 9 |
| M10 | 9 22 6 | 21°51'30 | 10♒39 | 5°19 | 5°33 | 15°33 | 25°44 | 12°19 | 28° 2 | 29°19 | 6°39 | 22°31 | 23°53 | 9°34 | 23°21 | M10 |
| T 11 | 9 26 2 | 22°52'07 | 24°25 | 4°59 | 6°47 | 15°37 | 25°49 | 12°26 | 28° 0 | 29°21 | 6°37 | 22°21 | 23°50 | 9°41 | 23°16 | T 11 |
| W12 | 9 29 59 | 23°52'42 | 8♓25 | 4°29 | 8° 2 | 15°41 | 25°55 | 12°33 | 27°59 | 29°23 | 6°36 | 22°12 | 23°46 | 9°48 | 23°11 | W12 |
| T 13 | 9 33 55 | 24°53'15 | 22°37 | 3°49 | 9°17 | 15°44 | 26° 0 | 12°40 | 27°58 | 29°25 | 6°35 | 22° 6 | 23°43 | 9°54 | 23° 6 | T 13 |
| F 14 | 9 37 52 | 25°53'47 | 6♈53 | 3° 1 | 10°32 | 15°46 | 26° 4 | 12°47 | 27°57 | 29°27 | 6°33 | 22° 3 | 23°40 | 10° 1 | 23° 2 | F 14 |
| S 15 | 9 41 48 | 26°54'17 | 21°11 | 2° 7 | 11°47 | 15°48 | 26° 9 | 12°54 | 27°56 | 29°29 | 6°32 | 22°D 2 | 23°37 | 10° 8 | 22°57 | S 15 |
| S 16 | 9 45 45 | 27°54'45 | 5♉26 | 1° 7 | 13° 2 | 15°49 | 26°14 | 13° 1 | 27°55 | 29°31 | 6°31 | 22° 2 | 23°34 | 10°14 | 22°52 | S 16 |
| M17 | 9 49 42 | 28°55'11 | 19°37 | 0° 4 | 14°17 | 15°R49 | 26°18 | 13° 8 | 27°54 | 29°33 | 6°29 | 22° 3 | 23°31 | 10°21 | 22°47 | M17 |
| T 18 | 9 53 38 | 29°55'35 | 3♊42 | 28♒58 | 15°32 | 15°49 | 26°22 | 13°15 | 27°53 | 29°35 | 6°28 | 22°R 3 | 23°27 | 10°27 | 22°43 | T 18 |
| W19 | 9 57 35 | 0♓55'58 | 17°41 | 27°52 | 16°47 | 15°47 | 26°26 | 13°22 | 27°53 | 29°37 | 6°27 | 22° 2 | 23°24 | 10°34 | 22°38 | W19 |
| T 20 | 10 1 31 | 1°56'18 | 1♋31 | 26°47 | 18° 1 | 15°45 | 26°30 | 13°29 | 27°52 | 29°39 | 6°26 | 21°58 | 23°21 | 10°41 | 22°33 | T 20 |
| F 21 | 10 5 28 | 2°56'36 | 15°13 | 25°45 | 19°16 | 15°42 | 26°34 | 13°36 | 27°51 | 29°41 | 6°24 | 21°53 | 23°18 | 10°47 | 22°29 | F 21 |
| S 22 | 10 9 24 | 3°56'53 | 28°45 | 24°47 | 20°31 | 15°39 | 26°38 | 13°43 | 27°50 | 29°43 | 6°23 | 21°45 | 23°15 | 10°54 | 22°24 | S 22 |
| S 23 | 10 13 21 | 4°57'07 | 12♌ 5 | 23°54 | 21°46 | 15°35 | 26°41 | 13°50 | 27°50 | 29°45 | 6°22 | 21°37 | 23°12 | 11° 1 | 22°19 | S 23 |
| M24 | 10 17 17 | 5°57'19 | 25°11 | 23° 6 | 23° 1 | 15°29 | 26°44 | 13°57 | 27°49 | 29°48 | 6°21 | 21°29 | 23° 8 | 11° 7 | 22°15 | M24 |
| T 25 | 10 21 14 | 6°57'30 | 8♍ 3 | 22°25 | 24°15 | 15°24 | 26°47 | 14° 4 | 27°49 | 29°50 | 6°20 | 21°21 | 23° 5 | 11°14 | 22°10 | T 25 |
| W26 | 10 25 11 | 7°57'39 | 20°40 | 21°51 | 25°30 | 15°17 | 26°50 | 14°10 | 27°48 | 29°52 | 6°18 | 21°15 | 23° 2 | 11°21 | 22° 6 | W26 |
| T 27 | 10 29 7 | 8°57'46 | 3♎ 2 | 21°23 | 26°45 | 15° 9 | 26°53 | 14°17 | 27°48 | 29°54 | 6°17 | 21°12 | 22°59 | 11°27 | 22° 1 | T 27 |
| F 28 | 10 33 4 | 9♓57'51 | 15♎12 | 21♒ 3 | 28♒ 0 | 15♎ 1 | 26♏55 | 14♒24 | 27♊48 | 29♓56 | 6♌16 | 21♎10 | 22♎56 | 11♏34 | 21♌57 | F 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 1 | 7s54 | 0s21 | 10s53 | 0n18 | 21s41 | 0s24 | 2s59 | 2n55 | 18s 0 | 1n 2 | 18s11 | 0s47 | 23n43 | 0n15 | 1s39 | 1s23 | 24n47 | 6n25 | 9s 3 | 9s27 | 13s11 | 6n49 | 7s 6 |
| S 2 | 16 43 | 11 14 | 0n42 | 10 16 | 0 33 | 21 30 | 0 26 | 3 2 | 2 56 | 18 2 | 1 2 | 18 9 | 0 47 | 23 43 | 0 15 | 1 38 | 1 23 | 24 48 | 6 25 | 9 3 | 9 26 | 13 12 | 6 50 | 7 6 |
| M 3 | 16 26 | 14 7 | 1 43 | 9 41 | 0 49 | 21 18 | 0 29 | 3 5 | 2 57 | 18 3 | 1 2 | 18 7 | 0 47 | 23 43 | 0 15 | 1 37 | 1 23 | 24 48 | 6 25 | 9 3 | 9 25 | 13 14 | 6 52 | 7 7 |
| T 4 | 16 8 | 16 25 | 2 40 | 9 8 | 1 5 | 21 6 | 0 31 | 3 8 | 2 58 | 18 5 | 1 2 | 18 5 | 0 47 | 23 43 | 0 15 | 1 37 | 1 23 | 24 48 | 6 25 | 9 3 | 9 24 | 13 15 | 6 53 | 7 7 |
| W 5 | 15 49 | 18 1 | 3 30 | 8 39 | 1 21 | 20 52 | 0 33 | 3 10 | 2 59 | 18 6 | 1 2 | 18 3 | 0 47 | 23 43 | 0 15 | 1 36 | 1 23 | 24 49 | 6 25 | 9 2 | 9 23 | 13 16 | 6 55 | 7 6 |
| T 6 | 15 31 | 18 50 | 4 12 | 8 12 | 1 37 | 20 39 | 0 36 | 3 12 | 3 0 | 18 7 | 1 2 | 18 1 | 0 47 | 23 43 | 0 15 | 1 35 | 1 23 | 24 49 | 6 25 | 9 1 | 9 22 | 13 17 | 6 56 | 7 6 |
| F 7 | 15 12 | 18 45 | 4 43 | 7 49 | 1 54 | 20 24 | 0 38 | 3 14 | 3 1 | 18 9 | 1 2 | 17 59 | 0 47 | 23 43 | 0 15 | 1 34 | 1 23 | 24 50 | 6 25 | 8 58 | 9 20 | 13 19 | 6 58 | 7 6 |
| S 8 | 14 53 | 17 45 | 5 0 | 7 30 | 2 10 | 20 10 | 0 40 | 3 16 | 3 2 | 18 10 | 1 3 | 17 57 | 0 47 | 23 43 | 0 15 | 1 34 | 1 23 | 24 50 | 6 25 | 8 55 | 9 19 | 13 20 | 6 59 | 7 6 |
| S 9 | 14 34 | 15 48 | 5 3 | 7 15 | 2 26 | 19 54 | 0 42 | 3 17 | 3 3 | 18 11 | 1 3 | 17 55 | 0 47 | 23 43 | 0 15 | 1 33 | 1 23 | 24 50 | 6 25 | 8 51 | 9 18 | 13 21 | 7 1 | 7 6 |
| M10 | 14 15 | 12 57 | 4 49 | 7 5 | 2 41 | 19 38 | 0 45 | 3 18 | 3 4 | 18 12 | 1 3 | 17 53 | 0 47 | 23 42 | 0 15 | 1 32 | 1 23 | 24 51 | 6 25 | 8 46 | 9 17 | 13 23 | 7 3 | 7 6 |
| T 11 | 13 55 | 9 21 | 4 18 | 6 59 | 2 55 | 19 21 | 0 47 | 3 19 | 3 5 | 18 13 | 1 3 | 17 52 | 0 48 | 23 42 | 0 15 | 1 31 | 1 23 | 24 51 | 6 25 | 8 43 | 9 16 | 13 24 | 7 4 | 7 6 |
| W12 | 13 35 | 5 9 | 3 31 | 6 58 | 3 8 | 19 4 | 0 49 | 3 19 | 3 6 | 18 15 | 1 3 | 17 50 | 0 48 | 23 42 | 0 15 | 1 31 | 1 23 | 24 51 | 6 25 | 8 39 | 9 14 | 13 25 | 7 6 | 7 6 |
| T 13 | 13 15 | 0 38 | 2 31 | 7 2 | 3 19 | 18 46 | 0 51 | 3 20 | 3 7 | 18 16 | 1 3 | 17 48 | 0 48 | 23 42 | 0 15 | 1 30 | 1 23 | 24 52 | 6 25 | 8 37 | 9 13 | 13 27 | 7 7 | 7 6 |
| F 14 | 12 54 | 3n58 | 1 20 | 7 10 | 3 28 | 18 28 | 0 53 | 3 20 | 3 8 | 18 17 | 1 3 | 17 46 | 0 48 | 23 42 | 0 15 | 1 29 | 1 23 | 24 52 | 6 25 | 8 36 | 9 12 | 13 28 | 7 9 | 7 6 |
| S 15 | 12 34 | 8 21 | 0 5 | 7 23 | 3 36 | 18 9 | 0 55 | 3 20 | 3 8 | 18 18 | 1 3 | 17 44 | 0 48 | 23 42 | 0 15 | 1 28 | 1 23 | 24 53 | 6 25 | 8 36 | 9 11 | 13 29 | 7 11 | 7 5 |
| S 16 | 12 13 | 12 14 | 1s11 | 7 39 | 3 41 | 17 50 | 0 57 | 3 19 | 3 9 | 18 19 | 1 4 | 17 42 | 0 48 | 23 42 | 0 15 | 1 27 | 1 23 | 24 53 | 6 25 | 8 36 | 9 10 | 13 30 | 7 13 | 7 5 |
| M17 | 11 52 | 15 22 | 2 23 | 7 58 | 3 44 | 17 30 | 0 58 | 3 19 | 3 10 | 18 19 | 1 4 | 17 40 | 0 48 | 23 42 | 0 15 | 1 27 | 1 23 | 24 53 | 6 25 | 8 36 | 9 9 | 13 32 | 7 14 | 7 5 |
| T 18 | 11 31 | 17 34 | 3 25 | 8 20 | 3 45 | 17 10 | 1 0 | 3 18 | 3 11 | 18 20 | 1 4 | 17 38 | 0 48 | 23 42 | 0 15 | 1 26 | 1 23 | 24 54 | 6 25 | 8 36 | 9 7 | 13 33 | 7 16 | 7 5 |
| W19 | 11 10 | 18 41 | 4 14 | 8 44 | 3 43 | 16 49 | 1 2 | 3 16 | 3 12 | 18 21 | 1 4 | 17 36 | 0 48 | 23 42 | 0 15 | 1 25 | 1 23 | 24 54 | 6 25 | 8 36 | 9 6 | 13 34 | 7 18 | 7 4 |
| T 20 | 10 48 | 18 40 | 4 48 | 9 10 | 3 39 | 16 28 | 1 4 | 3 15 | 3 12 | 18 22 | 1 4 | 17 34 | 0 48 | 23 42 | 0 15 | 1 24 | 1 23 | 24 54 | 6 25 | 8 34 | 9 5 | 13 35 | 7 19 | 7 4 |
| F 21 | 10 26 | 17 33 | 5 5 | 9 36 | 3 34 | 16 6 | 1 5 | 3 13 | 3 13 | 18 23 | 1 4 | 17 32 | 0 48 | 23 42 | 0 15 | 1 23 | 1 23 | 24 55 | 6 25 | 8 32 | 9 4 | 13 37 | 7 21 | 7 4 |
| S 22 | 10 5 | 15 28 | 5 5 | 10 2 | 3 26 | 15 44 | 1 7 | 3 11 | 3 14 | 18 23 | 1 4 | 17 30 | 0 49 | 23 42 | 0 15 | 1 22 | 1 23 | 24 55 | 6 25 | 8 29 | 9 3 | 13 38 | 7 23 | 7 4 |
| S 23 | 9 43 | 12 35 | 4 48 | 10 28 | 3 17 | 15 21 | 1 8 | 3 9 | 3 14 | 18 24 | 1 4 | 17 29 | 0 49 | 23 42 | 0 15 | 1 22 | 1 23 | 24 55 | 6 25 | 8 26 | 9 2 | 13 39 | 7 25 | 7 3 |
| M24 | 9 20 | 9 7 | 4 17 | 10 54 | 3 7 | 14 58 | 1 10 | 3 6 | 3 15 | 18 25 | 1 5 | 17 27 | 0 49 | 23 42 | 0 15 | 1 21 | 1 23 | 24 55 | 6 25 | 8 23 | 9 0 | 13 40 | 7 26 | 7 3 |
| T 25 | 8 58 | 5 17 | 3 32 | 11 18 | 2 55 | 14 34 | 1 11 | 3 4 | 3 16 | 18 25 | 1 5 | 17 25 | 0 49 | 23 42 | 0 15 | 1 20 | 1 23 | 24 56 | 6 25 | 8 20 | 8 59 | 13 42 | 7 28 | 7 3 |
| W26 | 8 36 | 1 17 | 2 38 | 11 41 | 2 43 | 14 11 | 1 12 | 3 1 | 3 16 | 18 26 | 1 5 | 17 23 | 0 49 | 23 42 | 0 15 | 1 19 | 1 23 | 24 56 | 6 25 | 8 18 | 8 58 | 13 43 | 7 30 | 7 2 |
| T 27 | 8 13 | 2s42 | 1 37 | 12 2 | 2 30 | 13 46 | 1 14 | 2 57 | 3 17 | 18 26 | 1 5 | 17 21 | 0 49 | 23 42 | 0 15 | 1 18 | 1 23 | 24 56 | 6 25 | 8 17 | 8 57 | 13 44 | 7 32 | 7 2 |
| F 28 | 7s51 | 6s29 | 0s32 | 12s21 | 2n16 | 13s22 | 1s15 | 2s54 | 3n17 | 18s27 | 1n 5 | 17s19 | 0s49 | 23n42 | 0n15 | 1s17 | 1s23 | 24n57 | 6n25 | 8s16 | 8s56 | 13s45 | 7n34 | 7s 1 |

Julian Day Number = 2341273.5, Delta T = 14.98 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'33, Lahiri = 19°38'33Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## MARCH 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 37 0 | 10♓57'54 | 27♎10 | 20°R50 | 29♒15 | 14°R52 | 26♏57 | 14♒31 | 27°R47 | 29♓58 | 6°R15 | 21°D10 | 22♎52 | 11♏41 | 21°R53 | S 1 |
| S 2 | 10 40 57 | 11°57'56 | 9♏ 2 | 20♒43 | 0♓29 | 14♎43 | 27° 0 | 14°37 | 27♊47 | 0♈ 0 | 6♌14 | 21♎11 | 22°49 | 11°47 | 21♌48 | S 2 |
| M 3 | 10 44 53 | 12°57'56 | 20°50 | 20°D42 | 1°44 | 14°32 | 27° 1 | 14°44 | 27°47 | 0° 3 | 6°13 | 21°13 | 22°46 | 11°54 | 21°44 | M 3 |
| T 4 | 10 48 50 | 13°57'55 | 2♐40 | 20°48 | 2°59 | 14°21 | 27° 3 | 14°51 | 27°47 | 0° 5 | 6°12 | 21°14 | 22°43 | 12° 1 | 21°40 | T 4 |
| W 5 | 10 52 46 | 14°57'52 | 14°36 | 21° 0 | 4°14 | 14° 9 | 27° 5 | 14°57 | 27°47 | 0° 7 | 6°11 | 21°R15 | 22°40 | 12° 7 | 21°36 | W 5 |
| T 6 | 10 56 43 | 15°57'47 | 26°45 | 21°18 | 5°28 | 13°56 | 27° 6 | 15° 4 | 27°D47 | 0° 9 | 6°10 | 21°14 | 22°37 | 12°14 | 21°31 | T 6 |
| F 7 | 11 0 40 | 16°57'40 | 9♑10 | 21°40 | 6°43 | 13°42 | 27° 7 | 15°10 | 27°47 | 0°11 | 6° 9 | 21°12 | 22°33 | 12°21 | 21°27 | F 7 |
| S 8 | 11 4 36 | 17°57'32 | 21°56 | 22° 8 | 7°58 | 13°28 | 27° 8 | 15°17 | 27°47 | 0°14 | 6° 8 | 21° 9 | 22°30 | 12°27 | 21°23 | S 8 |
| S 9 | 11 8 33 | 18°57'23 | 5♒ 5 | 22°40 | 9°12 | 13°13 | 27° 9 | 15°23 | 27°47 | 0°16 | 6° 7 | 21° 4 | 22°27 | 12°34 | 21°20 | S 9 |
| M10 | 11 12 29 | 19°57'11 | 18°40 | 23°17 | 10°27 | 12°57 | 27°10 | 15°29 | 27°47 | 0°18 | 6° 6 | 20°59 | 22°24 | 12°41 | 21°16 | M10 |
| T 11 | 11 16 26 | 20°56'57 | 2♓38 | 23°57 | 11°42 | 12°41 | 27°10 | 15°36 | 27°48 | 0°20 | 6° 5 | 20°54 | 22°21 | 12°47 | 21°12 | T 11 |
| W12 | 11 20 22 | 21°56'42 | 16°57 | 24°41 | 12°56 | 12°24 | 27°10 | 15°42 | 27°48 | 0°23 | 6° 4 | 20°50 | 22°17 | 12°54 | 21° 8 | W12 |
| T 13 | 11 24 19 | 22°56'24 | 1♈31 | 25°29 | 14°11 | 12° 6 | 27°R10 | 15°48 | 27°48 | 0°25 | 6° 3 | 20°48 | 22°14 | 13° 0 | 21° 5 | T 13 |
| F 14 | 11 28 15 | 23°56'05 | 16°14 | 26°21 | 15°26 | 11°48 | 27°10 | 15°54 | 27°49 | 0°27 | 6° 2 | 20°D46 | 22°11 | 13° 7 | 21° 1 | F 14 |
| S 15 | 11 32 12 | 24°55'43 | 0♉58 | 27°15 | 16°40 | 11°29 | 27°10 | 16° 0 | 27°49 | 0°29 | 6° 1 | 20°47 | 22° 8 | 13°14 | 20°57 | S 15 |
| S 16 | 11 36 8 | 25°55'19 | 15°38 | 28°12 | 17°55 | 11°10 | 27° 9 | 16° 7 | 27°50 | 0°32 | 6° 0 | 20°48 | 22° 5 | 13°20 | 20°54 | S 16 |
| M17 | 11 40 5 | 26°54'53 | 0♊ 8 | 29°13 | 19°10 | 10°50 | 27° 9 | 16°13 | 27°50 | 0°34 | 6° 0 | 20°49 | 22° 2 | 13°27 | 20°51 | M17 |
| T 18 | 11 44 2 | 27°54'25 | 14°24 | 0♓15 | 20°24 | 10°30 | 27° 8 | 16°19 | 27°51 | 0°36 | 5°59 | 20°50 | 21°58 | 13°34 | 20°47 | T 18 |
| W19 | 11 47 58 | 28°53'54 | 28°24 | 1°20 | 21°39 | 10° 9 | 27° 7 | 16°24 | 27°52 | 0°38 | 5°58 | 20°R51 | 21°55 | 13°40 | 20°44 | W19 |
| T 20 | 11 51 55 | 29°53'21 | 12♋ 9 | 2°28 | 22°53 | 9°47 | 27° 6 | 16°30 | 27°52 | 0°41 | 5°57 | 20°50 | 21°52 | 13°47 | 20°41 | T 20 |
| F 21 | 11 55 51 | 0♈52'46 | 25°37 | 3°38 | 24° 8 | 9°26 | 27° 4 | 16°36 | 27°53 | 0°43 | 5°57 | 20°49 | 21°49 | 13°54 | 20°38 | F 21 |
| S 22 | 11 59 48 | 1°52'08 | 8♌49 | 4°50 | 25°22 | 9° 4 | 27° 2 | 16°42 | 27°54 | 0°45 | 5°56 | 20°47 | 21°46 | 14° 0 | 20°35 | S 22 |
| S 23 | 12 3 44 | 2°51'28 | 21°47 | 6° 4 | 26°37 | 8°42 | 27° 1 | 16°48 | 27°55 | 0°48 | 5°55 | 20°44 | 21°43 | 14° 7 | 20°32 | S 23 |
| M24 | 12 7 41 | 3°50'45 | 4♍31 | 7°20 | 27°51 | 8°19 | 26°59 | 16°53 | 27°56 | 0°50 | 5°55 | 20°42 | 21°39 | 14°14 | 20°30 | M24 |
| T 25 | 12 11 37 | 4°50'01 | 17° 2 | 8°38 | 29° 6 | 7°56 | 26°56 | 16°59 | 27°57 | 0°52 | 5°54 | 20°39 | 21°36 | 14°20 | 20°27 | T 25 |
| W26 | 12 15 34 | 5°49'14 | 29°22 | 9°57 | 0♈20 | 7°33 | 26°54 | 17° 5 | 27°58 | 0°54 | 5°53 | 20°38 | 21°33 | 14°27 | 20°25 | W26 |
| T 27 | 12 19 31 | 6°48'25 | 11♎31 | 11°19 | 1°35 | 7°10 | 26°52 | 17°10 | 27°59 | 0°57 | 5°53 | 20°37 | 21°30 | 14°34 | 20°22 | T 27 |
| F 28 | 12 23 27 | 7°47'34 | 23°32 | 12°42 | 2°49 | 6°47 | 26°49 | 17°15 | 28° 0 | 0°59 | 5°52 | 20°D36 | 21°27 | 14°40 | 20°20 | F 28 |
| S 29 | 12 27 24 | 8°46'41 | 5♏26 | 14° 7 | 4° 4 | 6°24 | 26°46 | 17°21 | 28° 2 | 1° 1 | 5°52 | 20°37 | 21°23 | 14°47 | 20°18 | S 29 |
| S 30 | 12 31 20 | 9°45'47 | 17°15 | 15°33 | 5°18 | 6° 1 | 26°43 | 17°26 | 28° 3 | 1° 3 | 5°51 | 20°38 | 21°20 | 14°54 | 20°15 | S 30 |
| M31 | 12 35 17 | 10♈44'50 | 29♏ 4 | 17♓ 2 | 6♈32 | 5♎38 | 26♏40 | 17♒31 | 28♊ 4 | 1♈ 6 | 5♌51 | 20♎39 | 21♎17 | 15♏ 0 | 20♌13 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s28 | 9s58 | 0n33 | 12s38 | 2n 2 | 12s57 | 1s16 | 2s50 | 3n17 | 18s27 | 1n 5 | 17s17 | 0s49 | 23n42 | 0n15 | 1s16 | 1s23 | 24n57 | 6n25 | 8s16 | 8s54 | 13s47 | 7n35 | 7s 1 |
| S 2 | 7 5 | 13 1 | 1 36 | 12 54 | 1 48 | 12 31 | 1 17 | 2 46 | 3 18 | 18 27 | 1 5 | 17 15 | 0 49 | 23 42 | 0 15 | 1 16 | 1 23 | 24 57 | 6 25 | 8 17 | 8 53 | 13 48 | 7 37 | 7 1 |
| M 3 | 6 42 | 15 30 | 2 35 | 13 7 | 1 34 | 12 6 | 1 18 | 2 42 | 3 18 | 18 28 | 1 5 | 17 14 | 0 49 | 23 42 | 0 15 | 1 15 | 1 23 | 24 57 | 6 25 | 8 17 | 8 52 | 13 49 | 7 39 | 7 0 |
| T 4 | 6 19 | 17 20 | 3 27 | 13 18 | 1 21 | 11 40 | 1 19 | 2 37 | 3 18 | 18 28 | 1 6 | 17 12 | 0 50 | 23 42 | 0 15 | 1 14 | 1 23 | 24 58 | 6 25 | 8 18 | 8 51 | 13 50 | 7 41 | 7 0 |
| W 5 | 5 56 | 18 26 | 4 11 | 13 28 | 1 7 | 11 13 | 1 20 | 2 32 | 3 19 | 18 28 | 1 6 | 17 10 | 0 50 | 23 42 | 0 15 | 1 13 | 1 23 | 24 58 | 6 25 | 8 18 | 8 50 | 13 52 | 7 42 | 6 59 |
| T 6 | 5 33 | 18 42 | 4 45 | 13 35 | 0 53 | 10 47 | 1 21 | 2 27 | 3 19 | 18 28 | 1 6 | 17 8 | 0 50 | 23 42 | 0 15 | 1 12 | 1 23 | 24 58 | 6 25 | 8 18 | 8 49 | 13 53 | 7 44 | 6 59 |
| F 7 | 5 9 | 18 4 | 5 6 | 13 40 | 0 40 | 10 20 | 1 22 | 2 22 | 3 19 | 18 29 | 1 6 | 17 6 | 0 50 | 23 42 | 0 15 | 1 11 | 1 23 | 24 58 | 6 25 | 8 17 | 8 47 | 13 54 | 7 46 | 6 58 |
| S 8 | 4 46 | 16 33 | 5 13 | 13 44 | 0 27 | 9 53 | 1 23 | 2 16 | 3 19 | 18 29 | 1 6 | 17 5 | 0 50 | 23 42 | 0 15 | 1 10 | 1 23 | 24 59 | 6 25 | 8 16 | 8 46 | 13 55 | 7 48 | 6 58 |
| S 9 | 4 23 | 14 7 | 5 3 | 13 45 | 0 15 | 9 25 | 1 23 | 2 10 | 3 19 | 18 29 | 1 6 | 17 3 | 0 50 | 23 42 | 0 15 | 1 9 | 1 23 | 24 59 | 6 25 | 8 14 | 8 45 | 13 57 | 7 49 | 6 57 |
| M10 | 3 59 | 10 52 | 4 37 | 13 44 | 0 3 | 8 57 | 1 24 | 2 4 | 3 19 | 18 29 | 1 6 | 17 1 | 0 50 | 23 42 | 0 15 | 1 8 | 1 23 | 24 59 | 6 25 | 8 12 | 8 44 | 13 58 | 7 51 | 6 57 |
| T 11 | 3 36 | 6 55 | 3 54 | 13 42 | 0s 9 | 8 29 | 1 25 | 1 58 | 3 19 | 18 29 | 1 6 | 16 59 | 0 50 | 23 42 | 0 15 | 1 8 | 1 23 | 24 59 | 6 25 | 8 10 | 8 43 | 13 59 | 7 53 | 6 56 |
| W12 | 3 12 | 2 28 | 2 55 | 13 38 | 0 20 | 8 1 | 1 25 | 1 52 | 3 18 | 18 29 | 1 7 | 16 57 | 0 50 | 23 42 | 0 15 | 1 7 | 1 23 | 24 59 | 6 25 | 8 9 | 8 41 | 14 0 | 7 54 | 6 55 |
| T 13 | 2 48 | 2n11 | 1 44 | 13 32 | 0 31 | 7 33 | 1 25 | 1 45 | 3 18 | 18 29 | 1 7 | 16 56 | 0 51 | 23 42 | 0 15 | 1 6 | 1 23 | 24 59 | 6 25 | 8 8 | 8 40 | 14 1 | 7 56 | 6 55 |
| F 14 | 2 25 | 6 47 | 0 25 | 13 24 | 0 42 | 7 4 | 1 26 | 1 39 | 3 18 | 18 28 | 1 7 | 16 54 | 0 51 | 23 42 | 0 15 | 1 5 | 1 23 | 25 0 | 6 25 | 8 7 | 8 39 | 14 3 | 7 58 | 6 54 |
| S 15 | 2 1 | 10 57 | 0s56 | 13 15 | 0 51 | 6 35 | 1 26 | 1 32 | 3 17 | 18 28 | 1 7 | 16 52 | 0 51 | 23 42 | 0 15 | 1 4 | 1 23 | 25 0 | 6 24 | 8 7 | 8 38 | 14 4 | 7 59 | 6 54 |
| S 16 | 1 37 | 14 26 | 2 13 | 13 4 | 1 1 | 6 7 | 1 26 | 1 25 | 3 17 | 18 28 | 1 7 | 16 50 | 0 51 | 23 42 | 0 15 | 1 3 | 1 23 | 25 0 | 6 24 | 8 8 | 8 37 | 14 5 | 8 1 | 6 53 |
| M17 | 1 14 | 16 57 | 3 20 | 12 51 | 1 10 | 5 37 | 1 27 | 1 17 | 3 16 | 18 28 | 1 7 | 16 49 | 0 51 | 23 42 | 0 15 | 1 2 | 1 23 | 25 0 | 6 24 | 8 8 | 8 36 | 14 6 | 8 3 | 6 52 |
| T 18 | 0 50 | 18 21 | 4 14 | 12 37 | 1 18 | 5 8 | 1 27 | 1 10 | 3 15 | 18 27 | 1 7 | 16 47 | 0 51 | 23 42 | 0 15 | 1 1 | 1 23 | 25 0 | 6 24 | 8 9 | 8 34 | 14 7 | 8 4 | 6 52 |
| W19 | 0 26 | 18 36 | 4 52 | 12 21 | 1 26 | 4 39 | 1 27 | 1 3 | 3 14 | 18 27 | 1 7 | 16 45 | 0 51 | 23 42 | 0 15 | 1 0 | 1 23 | 25 0 | 6 24 | 8 9 | 8 33 | 14 9 | 8 6 | 6 51 |
| T 20 | 0 3 | 17 45 | 5 12 | 12 4 | 1 34 | 4 9 | 1 27 | 0 55 | 3 14 | 18 27 | 1 8 | 16 44 | 0 51 | 23 42 | 0 15 | 0 59 | 1 23 | 25 0 | 6 24 | 8 9 | 8 32 | 14 10 | 8 8 | 6 50 |
| F 21 | 0n21 | 15 54 | 5 14 | 11 45 | 1 41 | 3 40 | 1 27 | 0 47 | 3 13 | 18 26 | 1 8 | 16 42 | 0 51 | 23 42 | 0 15 | 0 59 | 1 23 | 25 1 | 6 24 | 8 8 | 8 31 | 14 11 | 8 9 | 6 50 |
| S 22 | 0 45 | 13 15 | 5 0 | 11 25 | 1 47 | 3 10 | 1 26 | 0 40 | 3 12 | 18 26 | 1 8 | 16 41 | 0 52 | 23 42 | 0 15 | 0 58 | 1 23 | 25 1 | 6 24 | 8 7 | 8 30 | 14 12 | 8 11 | 6 49 |
| S 23 | 1 8 | 10 0 | 4 31 | 11 3 | 1 53 | 2 40 | 1 26 | 0 32 | 3 10 | 18 25 | 1 8 | 16 39 | 0 52 | 23 42 | 0 15 | 0 57 | 1 23 | 25 1 | 6 24 | 8 7 | 8 28 | 14 13 | 8 12 | 6 48 |
| M24 | 1 32 | 6 20 | 3 48 | 10 40 | 1 59 | 2 10 | 1 26 | 0 24 | 3 9 | 18 25 | 1 8 | 16 37 | 0 52 | 23 42 | 0 15 | 0 56 | 1 23 | 25 1 | 6 24 | 8 6 | 8 27 | 14 15 | 8 14 | 6 48 |
| T 25 | 1 55 | 2 26 | 2 55 | 10 16 | 2 4 | 1 40 | 1 26 | 0 17 | 3 8 | 18 24 | 1 8 | 16 36 | 0 52 | 23 42 | 0 15 | 0 55 | 1 23 | 25 1 | 6 24 | 8 5 | 8 26 | 14 16 | 8 15 | 6 47 |
| W26 | 2 19 | 1s30 | 1 55 | 9 50 | 2 9 | 1 10 | 1 25 | 0 9 | 3 7 | 18 23 | 1 8 | 16 34 | 0 52 | 23 42 | 0 15 | 0 54 | 1 23 | 25 1 | 6 24 | 8 4 | 8 25 | 14 17 | 8 17 | 6 46 |
| T 27 | 2 42 | 5 20 | 0 50 | 9 23 | 2 13 | 0 40 | 1 25 | 0 1 | 3 5 | 18 23 | 1 8 | 16 33 | 0 52 | 23 42 | 0 15 | 0 53 | 1 23 | 25 1 | 6 24 | 8 4 | 8 24 | 14 18 | 8 18 | 6 45 |
| F 28 | 3 6 | 8 54 | 0n16 | 8 54 | 2 16 | 0 10 | 1 24 | 0n 7 | 3 4 | 18 22 | 1 8 | 16 31 | 0 52 | 23 42 | 0 15 | 0 52 | 1 23 | 25 1 | 6 24 | 8 4 | 8 22 | 14 19 | 8 20 | 6 45 |
| S 29 | 3 29 | 12 4 | 1 21 | 8 24 | 2 20 | 0n20 | 1 24 | 0 14 | 3 2 | 18 21 | 1 8 | 16 30 | 0 53 | 23 42 | 0 15 | 0 51 | 1 23 | 25 1 | 6 23 | 8 4 | 8 21 | 14 20 | 8 21 | 6 44 |
| S 30 | 3 52 | 14 44 | 2 23 | 7 53 | 2 22 | 0 50 | 1 23 | 0 22 | 3 0 | 18 20 | 1 9 | 16 28 | 0 53 | 23 42 | 0 15 | 0 51 | 1 23 | 25 1 | 6 23 | 8 4 | 8 20 | 14 22 | 8 22 | 6 43 |
| M31 | 4n16 | 16s46 | 3n18 | 7s21 | 2s25 | 1n21 | 1s22 | 0n30 | 2n59 | 18s20 | 1n 9 | 16s27 | 0s53 | 23n42 | 0n15 | 0s50 | 1s23 | 25n 1 | 6n23 | 8s 4 | 8s19 | 14s23 | 8n24 | 6s42 |

Julian Day Number = 2341301.5, Delta T = 14.95 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'37, Lahiri = 19°38'37Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## APRIL 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 12 39 13 | 11♈43'52 | 10♐55 | 18♓31 | 7♈47 | 5°R15 | 26°R36 | 17♒37 | 28♊ 5 | 1♈ 8 | 5°R50 | 20♎40 | 21♎14 | 15♏ 7 | 20°R11 | T 1 |
| W 2 | 12 43 10 | 12°42'51 | 22°52 | 20° 3 | 9° 1 | 4♎52 | 26♏33 | 17°42 | 28° 7 | 1°10 | 5♌50 | 20°41 | 21°11 | 15°14 | 20♌10 | W 2 |
| T 3 | 12 47 6 | 13°41'49 | 4♑59 | 21°36 | 10°16 | 4°29 | 26°29 | 17°47 | 28° 8 | 1°12 | 5°49 | 20°41 | 21° 8 | 15°20 | 20° 8 | T 3 |
| F 4 | 12 51 3 | 14°40'46 | 17°22 | 23°10 | 11°30 | 4° 6 | 26°25 | 17°52 | 28°10 | 1°15 | 5°49 | 20°R41 | 21° 4 | 15°27 | 20° 6 | F 4 |
| S 5 | 12 55 0 | 15°39'40 | 0♒ 4 | 24°46 | 12°44 | 3°44 | 26°21 | 17°57 | 28°11 | 1°17 | 5°49 | 20°41 | 21° 1 | 15°34 | 20° 5 | S 5 |
| S 6 | 12 58 56 | 16°38'33 | 13° 9 | 26°24 | 13°59 | 3°22 | 26°17 | 18° 1 | 28°13 | 1°19 | 5°48 | 20°41 | 20°58 | 15°40 | 20° 3 | S 6 |
| M 7 | 13 2 53 | 17°37'24 | 26°40 | 28° 3 | 15°13 | 3° 1 | 26°12 | 18° 6 | 28°15 | 1°21 | 5°48 | 20°40 | 20°55 | 15°47 | 20° 2 | M 7 |
| T 8 | 13 6 49 | 18°36'13 | 10♓38 | 29°44 | 16°27 | 2°39 | 26° 8 | 18°11 | 28°16 | 1°23 | 5°48 | 20°40 | 20°52 | 15°54 | 20° 1 | T 8 |
| W 9 | 13 10 46 | 19°35'00 | 25° 1 | 1♈26 | 17°41 | 2°18 | 26° 3 | 18°16 | 28°18 | 1°26 | 5°48 | 20°40 | 20°48 | 16° 0 | 20° 0 | W 9 |
| T 10 | 13 14 42 | 20°33'45 | 9♈44 | 3°10 | 18°56 | 1°58 | 25°58 | 18°20 | 28°20 | 1°28 | 5°47 | 20°D40 | 20°45 | 16° 7 | 19°59 | T 10 |
| F 11 | 13 18 39 | 21°32'29 | 24°43 | 4°56 | 20°10 | 1°38 | 25°53 | 18°25 | 28°22 | 1°30 | 5°47 | 20°R40 | 20°42 | 16°13 | 19°58 | F 11 |
| S 12 | 13 22 35 | 22°31'10 | 9♉48 | 6°43 | 21°24 | 1°19 | 25°48 | 18°29 | 28°24 | 1°32 | 5°47 | 20°40 | 20°39 | 16°20 | 19°57 | S 12 |
| S 13 | 13 26 32 | 23°29'50 | 24°51 | 8°31 | 22°38 | 1° 0 | 25°42 | 18°33 | 28°26 | 1°34 | 5°47 | 20°39 | 20°36 | 16°27 | 19°56 | S 13 |
| M14 | 13 30 28 | 24°28'27 | 9♊43 | 10°21 | 23°53 | 0°42 | 25°37 | 18°38 | 28°28 | 1°36 | 5°47 | 20°39 | 20°33 | 16°33 | 19°56 | M14 |
| T 15 | 13 34 25 | 25°27'03 | 24°17 | 12°13 | 25° 7 | 0°24 | 25°31 | 18°42 | 28°30 | 1°39 | 5°47 | 20°39 | 20°29 | 16°40 | 19°55 | T 15 |
| W16 | 13 38 22 | 26°25'36 | 8♋30 | 14° 7 | 26°21 | 0° 7 | 25°26 | 18°46 | 28°32 | 1°41 | 5°47 | 20°38 | 20°26 | 16°47 | 19°55 | W16 |
| T 17 | 13 42 18 | 27°24'07 | 22°19 | 16° 2 | 27°35 | 29♍51 | 25°20 | 18°50 | 28°34 | 1°43 | 5°D47 | 20°D38 | 20°23 | 16°53 | 19°55 | T 17 |
| F 18 | 13 46 15 | 28°22'35 | 5♌45 | 17°58 | 28°49 | 29°36 | 25°14 | 18°54 | 28°36 | 1°45 | 5°47 | 20°38 | 20°20 | 17° 0 | 19°D55 | F 18 |
| S 19 | 13 50 11 | 29°21'02 | 18°49 | 19°56 | 0♉ 3 | 29°21 | 25° 8 | 18°58 | 28°38 | 1°47 | 5°47 | 20°38 | 20°17 | 17° 7 | 19°55 | S 19 |
| S 20 | 13 54 8 | 0♉19'26 | 1♍34 | 21°56 | 1°18 | 29° 7 | 25° 2 | 19° 1 | 28°40 | 1°49 | 5°47 | 20°39 | 20°14 | 17°13 | 19°55 | S 20 |
| M21 | 13 58 4 | 1°17'48 | 14° 3 | 23°57 | 2°32 | 28°53 | 24°55 | 19° 5 | 28°43 | 1°51 | 5°47 | 20°40 | 20°10 | 17°20 | 19°55 | M21 |
| T 22 | 14 2 1 | 2°16'08 | 26°19 | 26° 0 | 3°46 | 28°41 | 24°49 | 19° 9 | 28°45 | 1°53 | 5°47 | 20°41 | 20° 7 | 17°27 | 19°56 | T 22 |
| W23 | 14 5 57 | 3°14'26 | 8♎24 | 28° 4 | 5° 0 | 28°29 | 24°42 | 19°12 | 28°47 | 1°55 | 5°47 | 20°42 | 20° 4 | 17°33 | 19°56 | W23 |
| T 24 | 14 9 54 | 4°12'43 | 20°22 | 0♉ 9 | 6°14 | 28°18 | 24°36 | 19°16 | 28°50 | 1°57 | 5°47 | 20°R42 | 20° 1 | 17°40 | 19°57 | T 24 |
| F 25 | 14 13 51 | 5°10'57 | 2♏15 | 2°16 | 7°28 | 28° 8 | 24°29 | 19°19 | 28°52 | 1°59 | 5°47 | 20°42 | 19°58 | 17°47 | 19°57 | F 25 |
| S 26 | 14 17 47 | 6° 9'09 | 14° 5 | 4°23 | 8°42 | 27°58 | 24°22 | 19°22 | 28°54 | 2° 1 | 5°48 | 20°41 | 19°54 | 17°53 | 19°58 | S 26 |
| S 27 | 14 21 44 | 7° 7'20 | 25°54 | 6°32 | 9°56 | 27°49 | 24°15 | 19°26 | 28°57 | 2° 3 | 5°48 | 20°39 | 19°51 | 18° 0 | 19°59 | S 27 |
| M28 | 14 25 40 | 8° 5'29 | 7♐44 | 8°41 | 11°10 | 27°41 | 24° 8 | 19°29 | 28°59 | 2° 5 | 5°48 | 20°36 | 19°48 | 18° 7 | 20° 0 | M28 |
| T 29 | 14 29 37 | 9° 3'37 | 19°38 | 10°51 | 12°24 | 27°34 | 24° 1 | 19°32 | 29° 2 | 2° 7 | 5°48 | 20°34 | 19°45 | 18°13 | 20° 1 | T 29 |
| W30 | 14 33 33 | 10♉ 1'43 | 1♑39 | 13♉ 1 | 13♉38 | 27♍28 | 23♏54 | 19♒35 | 29♊ 5 | 2♈ 9 | 5♌49 | 20♎31 | 19♎42 | 18♏20 | 20♌ 2 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 4n39 | 18s 5 | 4n 5 | 6s47 | 2s26 | 1n51 | 1s21 | 0n37 | 2n57 | 18s19 | 1n 9 | 16s25 | 0s53 | 23n42 | 0n15 | 0s49 | 1s23 | 25n 1 | 6n23 | 8s 5 | 8s18 | 14s24 | 8n25 | 6s42 |
| W 2 | 5 2 | 18 36 | 4 41 | 6 12 | 2 27 | 2 21 | 1 21 | 0 44 | 2 55 | 18 18 | 1 9 | 16 24 | 0 53 | 23 42 | 0 15 | 0 48 | 1 23 | 25 1 | 6 23 | 8 5 | 8 16 | 14 25 | 8 26 | 6 41 |
| T 3 | 5 25 | 18 17 | 5 6 | 5 36 | 2 28 | 2 51 | 1 20 | 0 52 | 2 53 | 18 17 | 1 9 | 16 22 | 0 53 | 23 42 | 0 15 | 0 47 | 1 23 | 25 1 | 6 23 | 8 5 | 8 15 | 14 26 | 8 28 | 6 40 |
| F 4 | 5 48 | 17 6 | 5 17 | 4 59 | 2 28 | 3 21 | 1 19 | 0 59 | 2 51 | 18 16 | 1 9 | 16 21 | 0 53 | 23 42 | 0 15 | 0 46 | 1 23 | 25 1 | 6 23 | 8 5 | 8 14 | 14 27 | 8 29 | 6 39 |
| S 5 | 6 10 | 15 3 | 5 14 | 4 21 | 2 28 | 3 51 | 1 18 | 1 6 | 2 49 | 18 15 | 1 9 | 16 20 | 0 53 | 23 42 | 0 15 | 0 45 | 1 23 | 25 1 | 6 23 | 8 5 | 8 13 | 14 28 | 8 30 | 6 39 |
| S 6 | 6 33 | 12 12 | 4 54 | 3 41 | 2 27 | 4 21 | 1 17 | 1 12 | 2 47 | 18 14 | 1 9 | 16 18 | 0 54 | 23 42 | 0 15 | 0 44 | 1 23 | 25 1 | 6 23 | 8 5 | 8 12 | 14 30 | 8 31 | 6 38 |
| M 7 | 6 56 | 8 36 | 4 17 | 3 0 | 2 26 | 4 50 | 1 16 | 1 19 | 2 44 | 18 13 | 1 9 | 16 17 | 0 54 | 23 42 | 0 15 | 0 44 | 1 23 | 25 1 | 6 23 | 8 5 | 8 11 | 14 31 | 8 32 | 6 37 |
| T 8 | 7 18 | 4 26 | 3 25 | 2 19 | 2 24 | 5 20 | 1 14 | 1 25 | 2 42 | 18 12 | 1 9 | 16 16 | 0 54 | 23 43 | 0 15 | 0 43 | 1 23 | 25 1 | 6 23 | 8 5 | 8 9 | 14 32 | 8 34 | 6 36 |
| W 9 | 7 40 | 0n 7 | 2 18 | 1 36 | 2 22 | 5 50 | 1 13 | 1 31 | 2 40 | 18 10 | 1 9 | 16 14 | 0 54 | 23 43 | 0 15 | 0 42 | 1 23 | 25 1 | 6 22 | 8 5 | 8 8 | 14 33 | 8 35 | 6 35 |
| T 10 | 8 3 | 4 47 | 1 0 | 0 52 | 2 19 | 6 19 | 1 12 | 1 37 | 2 37 | 18 9 | 1 9 | 16 13 | 0 54 | 23 43 | 0 15 | 0 41 | 1 23 | 25 1 | 6 22 | 8 5 | 8 7 | 14 34 | 8 36 | 6 34 |
| F 11 | 8 25 | 9 14 | 0s23 | 0 7 | 2 16 | 6 48 | 1 11 | 1 43 | 2 35 | 18 8 | 1 9 | 16 12 | 0 54 | 23 43 | 0 15 | 0 40 | 1 23 | 25 1 | 6 22 | 8 5 | 8 6 | 14 35 | 8 37 | 6 34 |
| S 12 | 8 47 | 13 7 | 1 44 | 0n39 | 2 12 | 7 17 | 1 9 | 1 48 | 2 32 | 18 7 | 1 9 | 16 10 | 0 55 | 23 43 | 0 15 | 0 39 | 1 23 | 25 1 | 6 22 | 8 5 | 8 5 | 14 36 | 8 38 | 6 33 |
| S 13 | 9 8 | 16 7 | 2 59 | 1 26 | 2 8 | 7 46 | 1 8 | 1 54 | 2 30 | 18 5 | 1 10 | 16 9 | 0 55 | 23 43 | 0 15 | 0 38 | 1 23 | 25 1 | 6 22 | 8 5 | 8 3 | 14 38 | 8 39 | 6 32 |
| M14 | 9 30 | 17 59 | 4 0 | 2 14 | 2 3 | 8 15 | 1 6 | 1 58 | 2 27 | 18 4 | 1 10 | 16 8 | 0 55 | 23 43 | 0 15 | 0 38 | 1 23 | 25 1 | 6 22 | 8 5 | 8 2 | 14 39 | 8 40 | 6 31 |
| T 15 | 9 51 | 18 37 | 4 45 | 3 2 | 1 57 | 8 44 | 1 5 | 2 3 | 2 25 | 18 3 | 1 10 | 16 7 | 0 55 | 23 43 | 0 15 | 0 37 | 1 23 | 25 1 | 6 22 | 8 4 | 8 1 | 14 40 | 8 41 | 6 30 |
| W16 | 10 13 | 18 2 | 5 11 | 3 52 | 1 52 | 9 12 | 1 3 | 2 7 | 2 22 | 18 1 | 1 10 | 16 6 | 0 55 | 23 43 | 0 15 | 0 36 | 1 23 | 25 1 | 6 22 | 8 4 | 8 0 | 14 41 | 8 42 | 6 29 |
| T 17 | 10 34 | 16 24 | 5 18 | 4 42 | 1 45 | 9 40 | 1 1 | 2 12 | 2 20 | 18 0 | 1 10 | 16 5 | 0 55 | 23 43 | 0 15 | 0 35 | 1 23 | 25 1 | 6 22 | 8 4 | 7 59 | 14 42 | 8 43 | 6 29 |
| F 18 | 10 55 | 13 54 | 5 7 | 5 33 | 1 38 | 10 8 | 1 0 | 2 15 | 2 17 | 17 58 | 1 10 | 16 4 | 0 55 | 23 43 | 0 15 | 0 34 | 1 23 | 25 1 | 6 22 | 8 4 | 7 57 | 14 43 | 8 43 | 6 28 |
| S 19 | 11 16 | 10 46 | 4 40 | 6 24 | 1 31 | 10 36 | 0 58 | 2 19 | 2 14 | 17 57 | 1 10 | 16 3 | 0 56 | 23 43 | 0 15 | 0 34 | 1 23 | 25 1 | 6 21 | 8 4 | 7 56 | 14 44 | 8 44 | 6 27 |
| S 20 | 11 36 | 7 11 | 4 0 | 7 16 | 1 23 | 11 4 | 0 56 | 2 22 | 2 12 | 17 55 | 1 10 | 16 2 | 0 56 | 23 43 | 0 15 | 0 33 | 1 23 | 25 0 | 6 21 | 8 5 | 7 55 | 14 45 | 8 45 | 6 26 |
| M21 | 11 57 | 3 22 | 3 10 | 8 9 | 1 15 | 11 31 | 0 54 | 2 25 | 2 9 | 17 54 | 1 10 | 16 1 | 0 56 | 23 43 | 0 15 | 0 32 | 1 23 | 25 0 | 6 21 | 8 5 | 7 54 | 14 46 | 8 46 | 6 25 |
| T 22 | 12 17 | 0s32 | 2 11 | 9 2 | 1 6 | 11 58 | 0 53 | 2 27 | 2 6 | 17 52 | 1 10 | 16 0 | 0 56 | 23 43 | 0 15 | 0 31 | 1 23 | 25 0 | 6 21 | 8 5 | 7 53 | 14 48 | 8 46 | 6 24 |
| W23 | 12 37 | 4 22 | 1 8 | 9 55 | 0 57 | 12 25 | 0 51 | 2 30 | 2 4 | 17 51 | 1 10 | 15 59 | 0 56 | 23 43 | 0 15 | 0 30 | 1 23 | 25 0 | 6 21 | 8 6 | 7 51 | 14 49 | 8 47 | 6 23 |
| T 24 | 12 57 | 8 0 | 0 2 | 10 48 | 0 48 | 12 51 | 0 49 | 2 32 | 2 1 | 17 49 | 1 10 | 15 58 | 0 56 | 23 43 | 0 15 | 0 30 | 1 23 | 25 0 | 6 21 | 8 6 | 7 50 | 14 50 | 8 48 | 6 23 |
| F 25 | 13 16 | 11 17 | 1n 4 | 11 41 | 0 38 | 13 17 | 0 47 | 2 33 | 1 58 | 17 47 | 1 10 | 15 57 | 0 57 | 23 43 | 0 15 | 0 29 | 1 23 | 25 0 | 6 21 | 8 6 | 7 49 | 14 51 | 8 48 | 6 22 |
| S 26 | 13 36 | 14 5 | 2 6 | 12 34 | 0 28 | 13 43 | 0 45 | 2 34 | 1 55 | 17 46 | 1 10 | 15 56 | 0 57 | 23 43 | 0 15 | 0 28 | 1 23 | 25 0 | 6 21 | 8 5 | 7 48 | 14 52 | 8 49 | 6 21 |
| S 27 | 13 55 | 16 18 | 3 3 | 13 26 | 0 18 | 14 8 | 0 43 | 2 36 | 1 53 | 17 44 | 1 10 | 15 55 | 0 57 | 23 43 | 0 15 | 0 27 | 1 23 | 25 0 | 6 21 | 8 5 | 7 47 | 14 53 | 8 50 | 6 20 |
| M28 | 14 14 | 17 49 | 3 52 | 14 18 | 0 7 | 14 33 | 0 41 | 2 36 | 1 50 | 17 42 | 1 10 | 15 54 | 0 57 | 23 43 | 0 15 | 0 27 | 1 23 | 24 59 | 6 21 | 8 4 | 7 45 | 14 54 | 8 50 | 6 19 |
| T 29 | 14 32 | 18 34 | 4 31 | 15 9 | 0n 3 | 14 58 | 0 39 | 2 37 | 1 47 | 17 41 | 1 10 | 15 53 | 0 57 | 23 43 | 0 15 | 0 26 | 1 23 | 24 59 | 6 20 | 8 3 | 7 44 | 14 55 | 8 51 | 6 18 |
| W30 | 14n51 | 18s29 | 4n59 | 15n59 | 0n14 | 15n23 | 0s36 | 2n37 | 1n45 | 17s39 | 1n10 | 15s53 | 0s57 | 23n43 | 0n15 | 0s25 | 1s23 | 24n59 | 6n20 | 8s 1 | 7s43 | 14s56 | 8n51 | 6s17 |

Julian Day Number = 2341332.5, Delta T = 14.92 sec
Ecliptic obliquity = 23°28'35, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'41, Lahiri = 19°38'41Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## MAY 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 14 37 30 | 10♉59'48 | 13♋49 | 15♉10 | 14♉52 | 27°R22 | 23°R47 | 19♒38 | 29♊ 7 | 2♈11 | 5♌49 | 20°R28 | 19♎39 | 18♏27 | 20♌ 4 | T 1 |
| F 2 | 14 41 26 | 11°57'51 | 26°12 | 17°20 | 16° 6 | 27♍18 | 23♏39 | 19°40 | 29°10 | 2°12 | 5°50 | 20♎26 | 19°35 | 18°33 | 20° 5 | F 2 |
| S 3 | 14 45 23 | 12°55'53 | 8♒51 | 19°29 | 17°20 | 27°14 | 23°32 | 19°43 | 29°13 | 2°14 | 5°50 | 20°D26 | 19°32 | 18°40 | 20° 7 | S 3 |
| S 4 | 14 49 20 | 13°53'53 | 21°51 | 21°37 | 18°34 | 27°10 | 23°25 | 19°46 | 29°15 | 2°16 | 5°50 | 20°26 | 19°29 | 18°47 | 20° 8 | S 4 |
| M 5 | 14 53 16 | 14°51'52 | 5♓14 | 23°44 | 19°47 | 27° 8 | 23°17 | 19°48 | 29°18 | 2°18 | 5°51 | 20°27 | 19°26 | 18°53 | 20°10 | M 5 |
| T 6 | 14 57 13 | 15°49'50 | 19° 3 | 25°50 | 21° 1 | 27° 6 | 23°10 | 19°50 | 29°21 | 2°20 | 5°51 | 20°28 | 19°23 | 19° 0 | 20°12 | T 6 |
| W 7 | 15 1 9 | 16°47'46 | 3♈18 | 27°53 | 22°15 | 27° 5 | 23° 2 | 19°53 | 29°24 | 2°21 | 5°52 | 20°29 | 19°20 | 19° 7 | 20°14 | W 7 |
| T 8 | 15 5 6 | 17°45'41 | 17°57 | 29°55 | 23°29 | 27°D 5 | 22°55 | 19°55 | 29°27 | 2°23 | 5°52 | 20°R30 | 19°16 | 19°13 | 20°16 | T 8 |
| F 9 | 15 9 2 | 18°43'35 | 2♉56 | 1♊55 | 24°43 | 27° 6 | 22°47 | 19°57 | 29°30 | 2°25 | 5°53 | 20°30 | 19°13 | 19°20 | 20°18 | F 9 |
| S 10 | 15 12 59 | 19°41'28 | 18° 6 | 3°52 | 25°57 | 27° 7 | 22°39 | 19°59 | 29°33 | 2°27 | 5°53 | 20°28 | 19°10 | 19°27 | 20°21 | S 10 |
| S 11 | 15 16 55 | 20°39'19 | 3♊20 | 5°47 | 27°11 | 27°10 | 22°32 | 20° 1 | 29°36 | 2°28 | 5°54 | 20°25 | 19° 7 | 19°33 | 20°23 | S 11 |
| M12 | 15 20 52 | 21°37'08 | 18°27 | 7°39 | 28°24 | 27°13 | 22°24 | 20° 3 | 29°39 | 2°30 | 5°55 | 20°21 | 19° 4 | 19°40 | 20°26 | M12 |
| T 13 | 15 24 49 | 22°34'56 | 3♋17 | 9°28 | 29°38 | 27°16 | 22°16 | 20° 5 | 29°42 | 2°31 | 5°55 | 20°16 | 19° 0 | 19°47 | 20°28 | T 13 |
| W14 | 15 28 45 | 23°32'42 | 17°43 | 11°14 | 0♊52 | 27°21 | 22° 9 | 20° 6 | 29°45 | 2°33 | 5°56 | 20°12 | 18°57 | 19°53 | 20°31 | W14 |
| T 15 | 15 32 42 | 24°30'27 | 1♌42 | 12°57 | 2° 6 | 27°26 | 22° 1 | 20° 8 | 29°48 | 2°35 | 5°57 | 20° 9 | 18°54 | 20° 0 | 20°34 | T 15 |
| F 16 | 15 36 38 | 25°28'10 | 15°13 | 14°37 | 3°20 | 27°32 | 21°53 | 20° 9 | 29°51 | 2°36 | 5°58 | 20° 7 | 18°51 | 20° 7 | 20°37 | F 16 |
| S 17 | 15 40 35 | 26°25'51 | 28°18 | 16°14 | 4°33 | 27°38 | 21°46 | 20°11 | 29°54 | 2°38 | 5°58 | 20°D 6 | 18°48 | 20°13 | 20°40 | S 17 |
| S 18 | 15 44 31 | 27°23'31 | 10♍59 | 17°48 | 5°47 | 27°45 | 21°38 | 20°12 | 29°57 | 2°39 | 5°59 | 20° 7 | 18°45 | 20°20 | 20°43 | S 18 |
| M19 | 15 48 28 | 28°21'09 | 23°21 | 19°18 | 7° 1 | 27°53 | 21°31 | 20°13 | 0♋ 0 | 2°41 | 6° 0 | 20° 8 | 18°41 | 20°27 | 20°46 | M19 |
| T 20 | 15 52 24 | 29°18'46 | 5♎29 | 20°45 | 8°15 | 28° 2 | 21°23 | 20°14 | 0° 4 | 2°42 | 6° 1 | 20°10 | 18°38 | 20°33 | 20°50 | T 20 |
| W21 | 15 56 21 | 0♊16'21 | 17°26 | 22° 9 | 9°28 | 28°11 | 21°16 | 20°15 | 0° 7 | 2°44 | 6° 2 | 20°R11 | 18°35 | 20°40 | 20°53 | W21 |
| T 22 | 16 0 18 | 1°13'55 | 29°18 | 23°29 | 10°42 | 28°21 | 21° 8 | 20°16 | 0°10 | 2°45 | 6° 2 | 20°10 | 18°32 | 20°47 | 20°57 | T 22 |
| F 23 | 16 4 14 | 2°11'27 | 11♏ 6 | 24°46 | 11°56 | 28°31 | 21° 1 | 20°17 | 0°13 | 2°46 | 6° 3 | 20° 8 | 18°29 | 20°53 | 21° 1 | F 23 |
| S 24 | 16 8 11 | 3° 8'58 | 22°55 | 25°59 | 13° 9 | 28°42 | 20°54 | 20°17 | 0°17 | 2°48 | 6° 4 | 20° 4 | 18°25 | 21° 0 | 21° 4 | S 24 |
| S 25 | 16 12 7 | 4° 6'29 | 4♐46 | 27° 9 | 14°23 | 28°54 | 20°46 | 20°18 | 0°20 | 2°49 | 6° 5 | 19°58 | 18°22 | 21° 7 | 21° 8 | S 25 |
| M26 | 16 16 4 | 5° 3'58 | 16°41 | 28°15 | 15°37 | 29° 6 | 20°39 | 20°18 | 0°23 | 2°50 | 6° 6 | 19°51 | 18°19 | 21°13 | 21°12 | M26 |
| T 27 | 16 20 0 | 6° 1'26 | 28°42 | 29°18 | 16°50 | 29°19 | 20°32 | 20°19 | 0°27 | 2°52 | 6° 7 | 19°42 | 18°16 | 21°20 | 21°16 | T 27 |
| W28 | 16 23 57 | 6°58'53 | 10♑50 | 0♋17 | 18° 4 | 29°32 | 20°25 | 20°19 | 0°30 | 2°53 | 6° 8 | 19°34 | 18°13 | 21°27 | 21°20 | W28 |
| T 29 | 16 27 53 | 7°56'19 | 23° 8 | 1°12 | 19°17 | 29°46 | 20°18 | 20°19 | 0°33 | 2°54 | 6° 9 | 19°26 | 18°10 | 21°33 | 21°24 | T 29 |
| F 30 | 16 31 50 | 8°53'45 | 5♒38 | 2° 3 | 20°31 | 0♎ 0 | 20°11 | 20°R19 | 0°37 | 2°55 | 6°10 | 19°20 | 18° 6 | 21°40 | 21°29 | F 30 |
| S 31 | 16 35 47 | 9♊51'10 | 18♒21 | 2♋51 | 21♊45 | 0♎15 | 20♏ 4 | 20♒19 | 0♋40 | 2♈56 | 6♌11 | 19♎15 | 18♎ 3 | 21♏47 | 21♌33 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n 9 | 17s34 | 5n13 | 16n48 | 0n24 | 15n47 | 0s34 | 2n36 | 1n42 | 17s37 | 1n10 | 15s52 | 0s58 | 23n43 | 0n15 | 0s25 | 1s23 | 24n59 | 6n20 | 8s 0 | 7s42 | 14s57 | 8n51 | 6s17 |
| F 2 | 15 27 | 15 48 | 5 14 | 17 36 | 0 35 | 16 10 | 0 32 | 2 36 | 1 39 | 17 35 | 1 10 | 15 51 | 0 58 | 23 43 | 0 15 | 0 24 | 1 23 | 24 59 | 6 20 | 8 0 | 7 41 | 14 58 | 8 52 | 6 16 |
| S 3 | 15 45 | 13 15 | 4 59 | 18 21 | 0 45 | 16 33 | 0 30 | 2 35 | 1 37 | 17 34 | 1 10 | 15 50 | 0 58 | 23 43 | 0 15 | 0 23 | 1 23 | 24 58 | 6 20 | 7 59 | 7 39 | 14 59 | 8 52 | 6 15 |
| S 4 | 16 2 | 10 0 | 4 29 | 19 5 | 0 55 | 16 56 | 0 28 | 2 34 | 1 34 | 17 32 | 1 10 | 15 50 | 0 58 | 23 43 | 0 15 | 0 22 | 1 24 | 24 58 | 6 20 | 8 0 | 7 38 | 15 1 | 8 52 | 6 14 |
| M 5 | 16 19 | 6 8 | 3 44 | 19 47 | 1 5 | 17 18 | 0 25 | 2 33 | 1 32 | 17 30 | 1 10 | 15 49 | 0 58 | 23 43 | 0 15 | 0 22 | 1 24 | 24 58 | 6 20 | 8 0 | 7 37 | 15 2 | 8 53 | 6 13 |
| T 6 | 16 36 | 1 49 | 2 45 | 20 27 | 1 15 | 17 40 | 0 23 | 2 31 | 1 29 | 17 28 | 1 9 | 15 49 | 0 58 | 23 43 | 0 15 | 0 21 | 1 24 | 24 58 | 6 20 | 8 0 | 7 36 | 15 3 | 8 53 | 6 12 |
| W 7 | 16 53 | 2n44 | 1 33 | 21 5 | 1 24 | 18 2 | 0 21 | 2 29 | 1 26 | 17 26 | 1 9 | 15 48 | 0 59 | 23 43 | 0 15 | 0 20 | 1 24 | 24 58 | 6 20 | 8 1 | 7 35 | 15 4 | 8 53 | 6 11 |
| T 8 | 17 9 | 7 16 | 0 14 | 21 40 | 1 32 | 18 23 | 0 18 | 2 27 | 1 24 | 17 25 | 1 9 | 15 48 | 0 59 | 23 43 | 0 15 | 0 20 | 1 24 | 24 57 | 6 20 | 8 1 | 7 33 | 15 5 | 8 53 | 6 11 |
| F 9 | 17 25 | 11 27 | 1s 8 | 22 12 | 1 40 | 18 43 | 0 16 | 2 24 | 1 21 | 17 23 | 1 9 | 15 47 | 0 59 | 23 43 | 0 15 | 0 19 | 1 24 | 24 57 | 6 19 | 8 1 | 7 32 | 15 6 | 8 53 | 6 10 |
| S 10 | 17 41 | 14 55 | 2 26 | 22 43 | 1 47 | 19 3 | 0 14 | 2 21 | 1 19 | 17 21 | 1 9 | 15 47 | 0 59 | 23 43 | 0 15 | 0 18 | 1 24 | 24 57 | 6 19 | 8 0 | 7 31 | 15 7 | 8 53 | 6 9 |
| S 11 | 17 57 | 17 22 | 3 34 | 23 10 | 1 54 | 19 22 | 0 11 | 2 18 | 1 16 | 17 19 | 1 9 | 15 46 | 0 59 | 23 43 | 0 15 | 0 18 | 1 24 | 24 57 | 6 19 | 7 59 | 7 30 | 15 8 | 8 53 | 6 8 |
| M12 | 18 12 | 18 34 | 4 26 | 23 35 | 2 0 | 19 41 | 0 9 | 2 15 | 1 14 | 17 17 | 1 9 | 15 46 | 0 59 | 23 43 | 0 15 | 0 17 | 1 24 | 24 56 | 6 19 | 7 58 | 7 28 | 15 9 | 8 53 | 6 7 |
| T 13 | 18 27 | 18 27 | 4 59 | 23 57 | 2 5 | 20 0 | 0 7 | 2 11 | 1 12 | 17 15 | 1 9 | 15 45 | 1 0 | 23 43 | 0 15 | 0 17 | 1 24 | 24 56 | 6 19 | 7 56 | 7 27 | 15 10 | 8 53 | 6 6 |
| W14 | 18 41 | 17 8 | 5 12 | 24 17 | 2 9 | 20 18 | 0 4 | 2 7 | 1 9 | 17 13 | 1 9 | 15 45 | 1 0 | 23 43 | 0 15 | 0 16 | 1 24 | 24 56 | 6 19 | 7 54 | 7 26 | 15 11 | 8 53 | 6 5 |
| T 15 | 18 56 | 14 50 | 5 6 | 24 35 | 2 13 | 20 35 | 0 2 | 2 3 | 1 7 | 17 12 | 1 9 | 15 45 | 1 0 | 23 43 | 0 15 | 0 15 | 1 24 | 24 56 | 6 19 | 7 53 | 7 25 | 15 12 | 8 53 | 6 5 |
| F 16 | 19 10 | 11 47 | 4 43 | 24 50 | 2 15 | 20 52 | 0n 1 | 1 58 | 1 4 | 17 10 | 1 9 | 15 44 | 1 0 | 23 43 | 0 15 | 0 15 | 1 24 | 24 55 | 6 19 | 7 52 | 7 24 | 15 13 | 8 53 | 6 4 |
| S 17 | 19 23 | 8 14 | 4 6 | 25 2 | 2 17 | 21 8 | 0 3 | 1 54 | 1 2 | 17 8 | 1 9 | 15 44 | 1 0 | 23 43 | 0 15 | 0 14 | 1 24 | 24 55 | 6 19 | 7 52 | 7 22 | 15 14 | 8 53 | 6 3 |
| S 18 | 19 36 | 4 25 | 3 18 | 25 13 | 2 18 | 21 24 | 0 6 | 1 49 | 1 0 | 17 6 | 1 8 | 15 44 | 1 0 | 23 43 | 0 15 | 0 14 | 1 24 | 24 55 | 6 19 | 7 52 | 7 21 | 15 15 | 8 53 | 6 2 |
| M19 | 19 49 | 0 29 | 2 21 | 25 21 | 2 19 | 21 39 | 0 8 | 1 43 | 0 58 | 17 4 | 1 8 | 15 44 | 1 1 | 23 43 | 0 15 | 0 13 | 1 24 | 24 54 | 6 19 | 7 53 | 7 20 | 15 16 | 8 53 | 6 1 |
| T 20 | 20 2 | 3s24 | 1 19 | 25 27 | 2 18 | 21 53 | 0 10 | 1 38 | 0 55 | 17 2 | 1 8 | 15 43 | 1 1 | 23 43 | 0 15 | 0 13 | 1 24 | 24 54 | 6 18 | 7 54 | 7 19 | 15 17 | 8 52 | 6 1 |
| W21 | 20 14 | 7 5 | 0 15 | 25 31 | 2 17 | 22 7 | 0 13 | 1 32 | 0 53 | 17 0 | 1 8 | 15 43 | 1 1 | 23 43 | 0 15 | 0 12 | 1 24 | 24 54 | 6 18 | 7 54 | 7 18 | 15 18 | 8 52 | 6 0 |
| T 22 | 20 26 | 10 28 | 0n49 | 25 33 | 2 14 | 22 20 | 0 15 | 1 26 | 0 51 | 16 59 | 1 8 | 15 43 | 1 1 | 23 43 | 0 15 | 0 12 | 1 24 | 24 53 | 6 18 | 7 54 | 7 16 | 15 19 | 8 52 | 5 59 |
| F 23 | 20 38 | 13 25 | 1 51 | 25 34 | 2 11 | 22 33 | 0 18 | 1 20 | 0 49 | 16 57 | 1 8 | 15 43 | 1 1 | 23 43 | 0 15 | 0 11 | 1 24 | 24 53 | 6 18 | 7 53 | 7 15 | 15 20 | 8 51 | 5 58 |
| S 24 | 20 49 | 15 49 | 2 48 | 25 32 | 2 7 | 22 45 | 0 20 | 1 14 | 0 47 | 16 55 | 1 8 | 15 43 | 1 2 | 23 43 | 0 15 | 0 11 | 1 24 | 24 53 | 6 18 | 7 51 | 7 14 | 15 21 | 8 51 | 5 57 |
| S 25 | 21 0 | 17 33 | 3 38 | 25 29 | 2 3 | 22 56 | 0 22 | 1 7 | 0 45 | 16 53 | 1 8 | 15 43 | 1 2 | 23 43 | 0 15 | 0 10 | 1 24 | 24 53 | 6 18 | 7 49 | 7 13 | 15 22 | 8 50 | 5 57 |
| M26 | 21 11 | 18 32 | 4 18 | 25 25 | 1 57 | 23 6 | 0 25 | 1 1 | 0 43 | 16 52 | 1 7 | 15 43 | 1 2 | 23 43 | 0 15 | 0 10 | 1 24 | 24 52 | 6 18 | 7 46 | 7 12 | 15 23 | 8 50 | 5 56 |
| T 27 | 21 21 | 18 41 | 4 47 | 25 19 | 1 51 | 23 16 | 0 27 | 0 54 | 0 41 | 16 50 | 1 7 | 15 43 | 1 2 | 23 43 | 0 15 | 0 9 | 1 25 | 24 52 | 6 18 | 7 43 | 7 10 | 15 24 | 8 49 | 5 55 |
| W28 | 21 31 | 17 59 | 5 4 | 25 12 | 1 43 | 23 26 | 0 29 | 0 47 | 0 39 | 16 48 | 1 7 | 15 43 | 1 2 | 23 43 | 0 15 | 0 9 | 1 25 | 24 52 | 6 18 | 7 40 | 7 9 | 15 25 | 8 49 | 5 54 |
| T 29 | 21 40 | 16 27 | 5 7 | 25 3 | 1 35 | 23 34 | 0 32 | 0 39 | 0 37 | 16 46 | 1 7 | 15 43 | 1 2 | 23 43 | 0 15 | 0 8 | 1 25 | 24 51 | 6 18 | 7 37 | 7 8 | 15 26 | 8 48 | 5 53 |
| F 30 | 21 49 | 14 7 | 4 55 | 24 54 | 1 26 | 23 42 | 0 34 | 0 32 | 0 35 | 16 45 | 1 7 | 15 43 | 1 3 | 23 43 | 0 15 | 0 8 | 1 25 | 24 51 | 6 18 | 7 35 | 7 7 | 15 27 | 8 48 | 5 53 |
| S 31 | 21n58 | 11s 5 | 4n29 | 24n43 | 1n17 | 23n49 | 0n36 | 0n24 | 0n33 | 16s43 | 1n 7 | 15s44 | 1s 3 | 23n43 | 0n15 | 0s 8 | 1s25 | 24n50 | 6n18 | 7s33 | 7s 6 | 15s28 | 8n47 | 5s52 |

Julian Day Number = 2341362.5, Delta T = 14.89 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'45, Lahiri = 19°38'46Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## JUNE 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 16 39 43 | 10♊48'34 | 1♓20 | 3♋34 | 22♊58 | 0♎31 | 19°R57 | 20°R19 | 0♋44 | 2♈57 | 6♌12 | 19°R13 | 18♎ 0 | 21♏53 | 21♌38 | S 1 |
| M 2 | 16 43 40 | 11°45'57 | 14°38 | 4°13 | 24°12 | 0°47 | 19♏51 | 20♒19 | 0°47 | 2°59 | 6°14 | 19°D13 | 17°57 | 22° 0 | 21°42 | M 2 |
| T 3 | 16 47 36 | 12°43'20 | 28°18 | 4°48 | 25°25 | 1° 3 | 19°44 | 20°19 | 0°50 | 3° 0 | 6°15 | 19♎13 | 17°54 | 22° 7 | 21°47 | T 3 |
| W 4 | 16 51 33 | 13°40'42 | 12♈20 | 5°19 | 26°39 | 1°20 | 19°37 | 20°18 | 0°54 | 3° 1 | 6°16 | 19°R14 | 17°51 | 22°13 | 21°52 | W 4 |
| T 5 | 16 55 29 | 14°38'04 | 26°46 | 5°45 | 27°52 | 1°38 | 19°31 | 20°18 | 0°57 | 3° 2 | 6°17 | 19°14 | 17°47 | 22°20 | 21°57 | T 5 |
| F 6 | 16 59 26 | 15°35'25 | 11♉32 | 6° 7 | 29° 6 | 1°56 | 19°25 | 20°17 | 1° 1 | 3° 3 | 6°18 | 19°12 | 17°44 | 22°27 | 22° 1 | F 6 |
| S 7 | 17 3 22 | 16°32'46 | 26°34 | 6°24 | 0♋19 | 2°14 | 19°19 | 20°17 | 1° 4 | 3° 4 | 6°20 | 19° 8 | 17°41 | 22°33 | 22° 6 | S 7 |
| S 8 | 17 7 19 | 17°30'07 | 11♊42 | 6°37 | 1°33 | 2°33 | 19°13 | 20°16 | 1° 8 | 3° 4 | 6°21 | 19° 2 | 17°38 | 22°40 | 22°12 | S 8 |
| M 9 | 17 11 16 | 18°27'26 | 26°48 | 6°45 | 2°46 | 2°52 | 19° 7 | 20°15 | 1°11 | 3° 5 | 6°22 | 18°54 | 17°35 | 22°47 | 22°17 | M 9 |
| T 10 | 17 15 12 | 19°24'45 | 11♋42 | 6°R49 | 4° 0 | 3°12 | 19° 1 | 20°14 | 1°15 | 3° 6 | 6°23 | 18°44 | 17°31 | 22°53 | 22°22 | T 10 |
| W11 | 17 19 9 | 20°22'04 | 26°14 | 6°48 | 5°13 | 3°32 | 18°55 | 20°13 | 1°19 | 3° 7 | 6°25 | 18°36 | 17°28 | 23° 0 | 22°27 | W11 |
| T 12 | 17 23 5 | 21°19'21 | 10♌20 | 6°43 | 6°27 | 3°53 | 18°50 | 20°12 | 1°22 | 3° 8 | 6°26 | 18°28 | 17°25 | 23° 7 | 22°33 | T 12 |
| F 13 | 17 27 2 | 22°16'38 | 23°57 | 6°33 | 7°40 | 4°14 | 18°45 | 20°10 | 1°26 | 3° 9 | 6°27 | 18°23 | 17°22 | 23°13 | 22°38 | F 13 |
| S 14 | 17 30 58 | 23°13'53 | 7♍ 5 | 6°19 | 8°54 | 4°36 | 18°39 | 20° 9 | 1°29 | 3° 9 | 6°29 | 18°20 | 17°19 | 23°20 | 22°44 | S 14 |
| S 15 | 17 34 55 | 24°11'08 | 19°48 | 6° 2 | 10° 7 | 4°58 | 18°34 | 20° 8 | 1°33 | 3°10 | 6°30 | 18°D18 | 17°16 | 23°27 | 22°50 | S 15 |
| M16 | 17 38 51 | 25° 8'22 | 2♎10 | 5°40 | 11°20 | 5°20 | 18°29 | 20° 6 | 1°36 | 3°11 | 6°31 | 18°18 | 17°12 | 23°33 | 22°55 | M16 |
| T 17 | 17 42 48 | 26° 5'36 | 14°16 | 5°15 | 12°34 | 5°43 | 18°25 | 20° 4 | 1°40 | 3°11 | 6°33 | 18°R19 | 17° 9 | 23°40 | 23° 1 | T 17 |
| W18 | 17 46 45 | 27° 2'49 | 26°11 | 4°47 | 13°47 | 6° 6 | 18°20 | 20° 3 | 1°44 | 3°12 | 6°34 | 18°19 | 17° 6 | 23°47 | 23° 7 | W18 |
| T 19 | 17 50 41 | 28° 0'01 | 8♏ 0 | 4°17 | 15° 1 | 6°29 | 18°15 | 20° 1 | 1°47 | 3°12 | 6°36 | 18°17 | 17° 3 | 23°53 | 23°13 | T 19 |
| F 20 | 17 54 38 | 28°57'13 | 19°48 | 3°44 | 16°14 | 6°53 | 18°11 | 19°59 | 1°51 | 3°13 | 6°37 | 18°13 | 17° 0 | 24° 0 | 23°19 | F 20 |
| S 21 | 17 58 34 | 29°54'24 | 1♐38 | 3°10 | 17°27 | 7°17 | 18° 7 | 19°57 | 1°54 | 3°13 | 6°39 | 18° 6 | 16°57 | 24° 7 | 23°25 | S 21 |
| S 22 | 18 2 31 | 0♋51'35 | 13°34 | 2°35 | 18°41 | 7°42 | 18° 3 | 19°55 | 1°58 | 3°14 | 6°40 | 17°57 | 16°53 | 24°13 | 23°31 | S 22 |
| M23 | 18 6 27 | 1°48'46 | 25°37 | 1°59 | 19°54 | 8° 7 | 17°59 | 19°53 | 2° 2 | 3°14 | 6°42 | 17°46 | 16°50 | 24°20 | 23°37 | M23 |
| T 24 | 18 10 24 | 2°45'57 | 7♑48 | 1°24 | 21° 7 | 8°32 | 17°55 | 19°51 | 2° 5 | 3°15 | 6°43 | 17°33 | 16°47 | 24°27 | 23°44 | T 24 |
| W25 | 18 14 20 | 3°43'07 | 20°10 | 0°49 | 22°20 | 8°57 | 17°52 | 19°48 | 2° 9 | 3°15 | 6°45 | 17°20 | 16°44 | 24°33 | 23°50 | W25 |
| T 26 | 18 18 17 | 4°40'17 | 2♒42 | 0°16 | 23°34 | 9°23 | 17°49 | 19°46 | 2°13 | 3°16 | 6°46 | 17° 9 | 16°41 | 24°40 | 23°57 | T 26 |
| F 27 | 18 22 14 | 5°37'28 | 15°24 | 29♊45 | 24°47 | 9°49 | 17°45 | 19°43 | 2°16 | 3°16 | 6°48 | 16°59 | 16°37 | 24°47 | 24° 3 | F 27 |
| S 28 | 18 26 10 | 6°34'38 | 28°18 | 29°16 | 26° 0 | 10°16 | 17°42 | 19°41 | 2°20 | 3°16 | 6°49 | 16°52 | 16°34 | 24°54 | 24°10 | S 28 |
| S 29 | 18 30 7 | 7°31'48 | 11♓25 | 28°50 | 27°13 | 10°43 | 17°40 | 19°38 | 2°23 | 3°16 | 6°51 | 16°47 | 16°31 | 25° 0 | 24°16 | S 29 |
| M30 | 18 34 3 | 8♋28'59 | 24♓47 | 28♊28 | 28♋27 | 11♎10 | 17♏37 | 19♒35 | 2♋27 | 3♈17 | 6♌52 | 16♎45 | 16♎28 | 25♏ 7 | 24♌23 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22n 6 | 7s27 | 3n49 | 24n32 | 1n 6 | 23n56 | 0n39 | 0n16 | 0n31 | 16s41 | 1n 6 | 15s44 | 1s 3 | 23n43 | 0n15 | 0s 7 | 1s25 | 24n50 | 6n18 | 7s32 | 7s 4 | 15s29 | 8n46 | 5s51 |
| M 2 | 22 14 | 3 22 | 2 55 | 24 19 | 0 55 | 24 2 | 0 41 | 0 8 | 0 29 | 16 40 | 1 6 | 15 44 | 1 3 | 23 43 | 0 15 | 0 7 | 1 25 | 24 50 | 6 17 | 7 32 | 7 3 | 15 30 | 8 46 | 5 50 |
| T 3 | 22 21 | 1n 0 | 1 50 | 24 6 | 0 43 | 24 7 | 0 43 | 0s 0 | 0 27 | 16 38 | 1 6 | 15 44 | 1 3 | 23 43 | 0 15 | 0 6 | 1 25 | 24 49 | 6 17 | 7 32 | 7 2 | 15 31 | 8 45 | 5 50 |
| W 4 | 22 29 | 5 27 | 0 37 | 23 52 | 0 30 | 24 11 | 0 45 | 0 9 | 0 25 | 16 37 | 1 6 | 15 45 | 1 4 | 23 43 | 0 15 | 0 6 | 1 25 | 24 49 | 6 17 | 7 33 | 7 1 | 15 32 | 8 44 | 5 49 |
| T 5 | 22 35 | 9 43 | 0s40 | 23 38 | 0 17 | 24 15 | 0 48 | 0 18 | 0 23 | 16 35 | 1 6 | 15 45 | 1 4 | 23 43 | 0 15 | 0 6 | 1 25 | 24 49 | 6 17 | 7 32 | 6 59 | 15 33 | 8 43 | 5 48 |
| F 6 | 22 42 | 13 28 | 1 57 | 23 23 | 0 3 | 24 18 | 0 50 | 0 26 | 0 22 | 16 34 | 1 5 | 15 45 | 1 4 | 23 43 | 0 15 | 0 5 | 1 25 | 24 48 | 6 17 | 7 32 | 6 58 | 15 34 | 8 42 | 5 47 |
| S 7 | 22 48 | 16 24 | 3 6 | 23 7 | 0s12 | 24 20 | 0 52 | 0 35 | 0 20 | 16 32 | 1 5 | 15 46 | 1 4 | 23 43 | 0 15 | 0 5 | 1 25 | 24 48 | 6 17 | 7 30 | 6 57 | 15 35 | 8 41 | 5 47 |
| S 8 | 22 53 | 18 13 | 4 3 | 22 51 | 0 27 | 24 22 | 0 54 | 0 44 | 0 18 | 16 31 | 1 5 | 15 46 | 1 4 | 23 43 | 0 15 | 0 5 | 1 25 | 24 48 | 6 17 | 7 28 | 6 56 | 15 36 | 8 40 | 5 46 |
| M 9 | 22 58 | 18 44 | 4 43 | 22 35 | 0 43 | 24 23 | 0 56 | 0 54 | 0 16 | 16 29 | 1 5 | 15 47 | 1 4 | 23 43 | 0 15 | 0 4 | 1 25 | 24 47 | 6 17 | 7 25 | 6 55 | 15 37 | 8 39 | 5 45 |
| T 10 | 23 3 | 17 56 | 5 2 | 22 19 | 0 59 | 24 23 | 0 58 | 1 3 | 0 15 | 16 28 | 1 5 | 15 47 | 1 5 | 23 43 | 0 15 | 0 4 | 1 25 | 24 47 | 6 17 | 7 21 | 6 53 | 15 38 | 8 38 | 5 45 |
| W11 | 23 8 | 15 59 | 5 2 | 22 3 | 1 15 | 24 22 | 1 0 | 1 13 | 0 13 | 16 27 | 1 4 | 15 48 | 1 5 | 23 43 | 0 15 | 0 4 | 1 25 | 24 46 | 6 17 | 7 18 | 6 52 | 15 39 | 8 37 | 5 44 |
| T 12 | 23 11 | 13 8 | 4 43 | 21 47 | 1 32 | 24 21 | 1 2 | 1 22 | 0 11 | 16 25 | 1 4 | 15 48 | 1 5 | 23 43 | 0 15 | 0 4 | 1 25 | 24 46 | 6 17 | 7 15 | 6 51 | 15 40 | 8 36 | 5 43 |
| F 13 | 23 15 | 9 39 | 4 8 | 21 30 | 1 49 | 24 19 | 1 4 | 1 32 | 0 10 | 16 24 | 1 4 | 15 49 | 1 5 | 23 43 | 0 15 | 0 3 | 1 25 | 24 46 | 6 17 | 7 13 | 6 50 | 15 41 | 8 35 | 5 43 |
| S 14 | 23 18 | 5 48 | 3 22 | 21 14 | 2 5 | 24 16 | 1 6 | 1 42 | 0 8 | 16 23 | 1 4 | 15 49 | 1 5 | 23 43 | 0 15 | 0 3 | 1 25 | 24 45 | 6 17 | 7 12 | 6 49 | 15 42 | 8 34 | 5 42 |
| S 15 | 23 21 | 1 48 | 2 26 | 20 59 | 2 22 | 24 13 | 1 7 | 1 53 | 0 6 | 16 22 | 1 4 | 15 50 | 1 5 | 23 43 | 0 15 | 0 3 | 1 26 | 24 45 | 6 17 | 7 11 | 6 47 | 15 43 | 8 33 | 5 41 |
| M16 | 23 23 | 2s10 | 1 25 | 20 43 | 2 38 | 24 8 | 1 9 | 2 3 | 0 5 | 16 20 | 1 3 | 15 51 | 1 6 | 23 43 | 0 15 | 0 3 | 1 26 | 24 44 | 6 17 | 7 11 | 6 46 | 15 44 | 8 32 | 5 40 |
| T 17 | 23 25 | 5 58 | 0 22 | 20 28 | 2 54 | 24 3 | 1 11 | 2 13 | 0 3 | 16 19 | 1 3 | 15 51 | 1 6 | 23 43 | 0 15 | 0 2 | 1 26 | 24 44 | 6 17 | 7 11 | 6 45 | 15 45 | 8 30 | 5 40 |
| W18 | 23 27 | 9 28 | 0n42 | 20 14 | 3 9 | 23 58 | 1 13 | 2 24 | 0 2 | 16 18 | 1 3 | 15 52 | 1 6 | 23 43 | 0 15 | 0 2 | 1 26 | 24 44 | 6 17 | 7 11 | 6 44 | 15 46 | 8 29 | 5 39 |
| T 19 | 23 28 | 12 35 | 1 43 | 20 1 | 3 24 | 23 51 | 1 14 | 2 34 | 0 0 | 16 17 | 1 3 | 15 53 | 1 6 | 23 43 | 0 15 | 0 2 | 1 26 | 24 43 | 6 17 | 7 11 | 6 42 | 15 47 | 8 28 | 5 39 |
| F 20 | 23 28 | 15 10 | 2 39 | 19 48 | 3 38 | 23 44 | 1 16 | 2 45 | 0s 1 | 16 16 | 1 2 | 15 53 | 1 6 | 23 43 | 0 15 | 0 2 | 1 26 | 24 43 | 6 17 | 7 9 | 6 41 | 15 48 | 8 27 | 5 38 |
| S 21 | 23 29 | 17 7 | 3 29 | 19 36 | 3 50 | 23 37 | 1 17 | 2 56 | 0 3 | 16 15 | 1 2 | 15 54 | 1 7 | 23 42 | 0 15 | 0 2 | 1 26 | 24 42 | 6 17 | 7 7 | 6 40 | 15 49 | 8 25 | 5 37 |
| S 22 | 23 28 | 18 20 | 4 9 | 19 25 | 4 2 | 23 28 | 1 19 | 3 7 | 0 4 | 16 14 | 1 2 | 15 55 | 1 7 | 23 42 | 0 15 | 0 2 | 1 26 | 24 42 | 6 16 | 7 3 | 6 39 | 15 49 | 8 24 | 5 37 |
| M23 | 23 28 | 18 45 | 4 39 | 19 15 | 4 12 | 23 19 | 1 20 | 3 18 | 0 5 | 16 14 | 1 2 | 15 56 | 1 7 | 23 42 | 0 15 | 0 1 | 1 26 | 24 42 | 6 16 | 6 59 | 6 38 | 15 50 | 8 22 | 5 36 |
| T 24 | 23 27 | 18 18 | 4 57 | 19 7 | 4 21 | 23 9 | 1 22 | 3 30 | 0 7 | 16 13 | 1 2 | 15 57 | 1 7 | 23 42 | 0 15 | 0 1 | 1 26 | 24 41 | 6 16 | 6 54 | 6 36 | 15 51 | 8 21 | 5 35 |
| W25 | 23 25 | 17 0 | 5 1 | 19 0 | 4 29 | 22 59 | 1 23 | 3 41 | 0 8 | 16 12 | 1 1 | 15 58 | 1 7 | 23 42 | 0 15 | 0 1 | 1 26 | 24 41 | 6 16 | 6 49 | 6 35 | 15 52 | 8 19 | 5 35 |
| T 26 | 23 24 | 14 53 | 4 50 | 18 54 | 4 35 | 22 48 | 1 24 | 3 52 | 0 10 | 16 11 | 1 1 | 15 59 | 1 7 | 23 42 | 0 15 | 0 1 | 1 26 | 24 40 | 6 16 | 6 45 | 6 34 | 15 53 | 8 18 | 5 34 |
| F 27 | 23 21 | 12 1 | 4 25 | 18 49 | 4 39 | 22 36 | 1 25 | 4 4 | 0 11 | 16 11 | 1 1 | 16 0 | 1 8 | 23 42 | 0 15 | 0 1 | 1 26 | 24 40 | 6 16 | 6 41 | 6 33 | 15 54 | 8 16 | 5 34 |
| S 28 | 23 19 | 8 32 | 3 47 | 18 46 | 4 42 | 22 24 | 1 26 | 4 16 | 0 12 | 16 10 | 1 1 | 16 1 | 1 8 | 23 42 | 0 15 | 0 1 | 1 26 | 24 39 | 6 16 | 6 38 | 6 31 | 15 55 | 8 15 | 5 33 |
| S 29 | 23 16 | 4 35 | 2 55 | 18 45 | 4 43 | 22 11 | 1 27 | 4 27 | 0 14 | 16 10 | 1 0 | 16 2 | 1 8 | 23 42 | 0 15 | 0 1 | 1 26 | 24 39 | 6 16 | 6 36 | 6 30 | 15 56 | 8 13 | 5 32 |
| M30 | 23n12 | 0s20 | 1n54 | 18n45 | 4s43 | 21n57 | 1n28 | 4s39 | 0s15 | 16s 9 | 1n 0 | 16s 3 | 1s 8 | 23n42 | 0n15 | 0s 1 | 1s26 | 24n39 | 6n16 | 6s36 | 6s29 | 15s57 | 8n12 | 5s32 |

Julian Day Number = 2341393.5, Delta T = 14.86 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'49, Lahiri = 19°38'50Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## JULY 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 18 38 0 | 9♋26'10 | 8♈24 | 28°R10 | 29♋40 | 11♎37 | 17°R34 | 19°R32 | 2♋31 | 3♈17 | 6♌54 | 16°R45 | 16♎25 | 25♏14 | 24♌30 | T 1 |
| W 2 | 18 41 56 | 10°23'22 | 22°18 | 27♊56 | 0♌53 | 12° 5 | 17♏32 | 19♒30 | 2°34 | 3°17 | 6°56 | 16♎45 | 16°22 | 25°20 | 24°36 | W 2 |
| T 3 | 18 45 53 | 11°20'34 | 6♉31 | 27°47 | 2° 6 | 12°33 | 17°30 | 19°27 | 2°38 | 3°17 | 6°57 | 16°44 | 16°18 | 25°27 | 24°43 | T 3 |
| F 4 | 18 49 49 | 12°17'46 | 21° 0 | 27°D42 | 3°19 | 13° 1 | 17°28 | 19°24 | 2°41 | 3°17 | 6°59 | 16°41 | 16°15 | 25°34 | 24°50 | F 4 |
| S 5 | 18 53 46 | 13°14'59 | 5♊42 | 27°42 | 4°33 | 13°29 | 17°26 | 19°20 | 2°45 | 3°17 | 7° 0 | 16°36 | 16°12 | 25°40 | 24°57 | S 5 |
| S 6 | 18 57 43 | 14°12'12 | 20°33 | 27°48 | 5°46 | 13°58 | 17°25 | 19°17 | 2°48 | 3°R17 | 7° 2 | 16°28 | 16° 9 | 25°47 | 25° 4 | S 6 |
| M 7 | 19 1 39 | 15° 9'25 | 5♋23 | 27°59 | 6°59 | 14°27 | 17°23 | 19°14 | 2°52 | 3°17 | 7° 4 | 16°17 | 16° 6 | 25°54 | 25°11 | M 7 |
| T 8 | 19 5 36 | 16° 6'39 | 20° 5 | 28°15 | 8°12 | 14°56 | 17°22 | 19°11 | 2°55 | 3°17 | 7° 5 | 16° 6 | 16° 3 | 26° 0 | 25°18 | T 8 |
| W 9 | 19 9 32 | 17° 3'53 | 4♌30 | 28°36 | 9°25 | 15°26 | 17°21 | 19° 7 | 2°59 | 3°17 | 7° 7 | 15°55 | 15°59 | 26° 7 | 25°26 | W 9 |
| T 10 | 19 13 29 | 18° 1'08 | 18°33 | 29° 3 | 10°38 | 15°56 | 17°20 | 19° 4 | 3° 3 | 3°17 | 7° 9 | 15°45 | 15°56 | 26°14 | 25°33 | T 10 |
| F 11 | 19 17 25 | 18°58'22 | 2♍ 9 | 29°35 | 11°51 | 16°26 | 17°19 | 19° 0 | 3° 6 | 3°17 | 7°11 | 15°38 | 15°53 | 26°20 | 25°40 | F 11 |
| S 12 | 19 21 22 | 19°55'37 | 15°19 | 0♋13 | 13° 4 | 16°56 | 17°19 | 18°57 | 3°10 | 3°17 | 7°12 | 15°33 | 15°50 | 26°27 | 25°48 | S 12 |
| S 13 | 19 25 18 | 20°52'51 | 28° 4 | 0°55 | 14°17 | 17°27 | 17°19 | 18°53 | 3°13 | 3°16 | 7°14 | 15°30 | 15°47 | 26°34 | 25°55 | S 13 |
| M14 | 19 29 15 | 21°50'06 | 10♎27 | 1°43 | 15°30 | 17°58 | 17°D18 | 18°49 | 3°17 | 3°16 | 7°16 | 15°29 | 15°43 | 26°40 | 26° 2 | M14 |
| T 15 | 19 33 12 | 22°47'21 | 22°34 | 2°37 | 16°43 | 18°29 | 17°18 | 18°46 | 3°20 | 3°16 | 7°17 | 15°29 | 15°40 | 26°47 | 26°10 | T 15 |
| W16 | 19 37 8 | 23°44'37 | 4♏30 | 3°35 | 17°56 | 19° 0 | 17°19 | 18°42 | 3°23 | 3°16 | 7°19 | 15°29 | 15°37 | 26°54 | 26°17 | W16 |
| T 17 | 19 41 5 | 24°41'52 | 16°20 | 4°39 | 19° 9 | 19°32 | 17°19 | 18°38 | 3°27 | 3°15 | 7°21 | 15°27 | 15°34 | 27° 0 | 26°25 | T 17 |
| F 18 | 19 45 1 | 25°39'08 | 28°10 | 5°47 | 20°22 | 20° 3 | 17°20 | 18°34 | 3°30 | 3°15 | 7°23 | 15°24 | 15°31 | 27° 7 | 26°33 | F 18 |
| S 19 | 19 48 58 | 26°36'25 | 10♐ 3 | 7° 0 | 21°35 | 20°35 | 17°21 | 18°30 | 3°34 | 3°14 | 7°24 | 15°17 | 15°28 | 27°14 | 26°40 | S 19 |
| S 20 | 19 52 54 | 27°33'42 | 22° 4 | 8°19 | 22°48 | 21° 8 | 17°21 | 18°26 | 3°37 | 3°14 | 7°26 | 15° 8 | 15°24 | 27°20 | 26°48 | S 20 |
| M21 | 19 56 51 | 28°30'59 | 4♑16 | 9°42 | 24° 1 | 21°40 | 17°23 | 18°22 | 3°40 | 3°13 | 7°28 | 14°57 | 15°21 | 27°27 | 26°56 | M21 |
| T 22 | 20 0 47 | 29°28'17 | 16°39 | 11° 9 | 25°14 | 22°13 | 17°24 | 18°18 | 3°44 | 3°13 | 7°30 | 14°45 | 15°18 | 27°34 | 27° 3 | T 22 |
| W23 | 20 4 44 | 0♌25'36 | 29°16 | 12°41 | 26°26 | 22°45 | 17°25 | 18°14 | 3°47 | 3°12 | 7°31 | 14°33 | 15°15 | 27°40 | 27°11 | W23 |
| T 24 | 20 8 41 | 1°22'55 | 12♒ 5 | 14°17 | 27°39 | 23°18 | 17°27 | 18°10 | 3°50 | 3°12 | 7°33 | 14°21 | 15°12 | 27°47 | 27°19 | T 24 |
| F 25 | 20 12 37 | 2°20'16 | 25° 7 | 15°57 | 28°52 | 23°52 | 17°29 | 18° 5 | 3°54 | 3°11 | 7°35 | 14°12 | 15° 9 | 27°54 | 27°27 | F 25 |
| S 26 | 20 16 34 | 3°17'37 | 8♓20 | 17°40 | 0♍ 5 | 24°25 | 17°31 | 18° 1 | 3°57 | 3°11 | 7°37 | 14° 5 | 15° 5 | 28° 1 | 27°35 | S 26 |
| S 27 | 20 20 30 | 4°14'59 | 21°44 | 19°28 | 1°18 | 24°59 | 17°33 | 17°57 | 4° 0 | 3°10 | 7°38 | 14° 0 | 15° 2 | 28° 7 | 27°43 | S 27 |
| M28 | 20 24 27 | 5°12'22 | 5♈19 | 21°18 | 2°30 | 25°32 | 17°36 | 17°53 | 4° 3 | 3° 9 | 7°40 | 13°58 | 14°59 | 28°14 | 27°51 | M28 |
| T 29 | 20 28 23 | 6° 9'46 | 19° 4 | 23°11 | 3°43 | 26° 6 | 17°38 | 17°48 | 4° 7 | 3° 9 | 7°42 | 13°D58 | 14°56 | 28°21 | 27°59 | T 29 |
| W30 | 20 32 20 | 7° 7'12 | 2♉59 | 25° 7 | 4°56 | 26°41 | 17°41 | 17°44 | 4°10 | 3° 8 | 7°44 | 13°R59 | 14°53 | 28°27 | 28° 7 | W30 |
| T 31 | 20 36 16 | 8♌ 4'39 | 17♉ 5 | 27♋ 5 | 6♍ 8 | 27♎15 | 17♏44 | 17♒40 | 4♋13 | 3♈ 7 | 7♌46 | 13♎58 | 14♎49 | 28♏34 | 28♌15 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23n 8 | 4n 1 | 0n44 | 18n46 | 4s42 | 21n43 | 1n29 | 4s51 | 0s16 | 16s 9 | 1n 0 | 16s 4 | 1s 8 | 23n42 | 0n15 | 0s 1 | 1s26 | 24n38 | 6n16 | 6s35 | 6s28 | 15s58 | 8n10 | 5s31 |
| W 2 | 23 4 | 8 15 | 0s29 | 18 49 | 4 39 | 21 28 | 1 30 | 5 3 | 0 17 | 16 8 | 1 0 | 16 5 | 1 8 | 23 42 | 0 15 | 0 1 | 1 26 | 24 38 | 6 16 | 6 35 | 6 27 | 15 59 | 8 8 | 5 31 |
| T 3 | 22 59 | 12 6 | 1 43 | 18 53 | 4 34 | 21 12 | 1 31 | 5 15 | 0 19 | 16 8 | 0 59 | 16 6 | 1 8 | 23 42 | 0 15 | 0 1 | 1 26 | 24 37 | 6 16 | 6 35 | 6 25 | 16 0 | 8 7 | 5 30 |
| F 4 | 22 54 | 15 17 | 2 51 | 18 59 | 4 29 | 20 56 | 1 32 | 5 27 | 0 20 | 16 8 | 0 59 | 16 7 | 1 9 | 23 42 | 0 15 | 0 1 | 1 27 | 24 37 | 6 16 | 6 34 | 6 24 | 16 0 | 8 5 | 5 30 |
| S 5 | 22 49 | 17 33 | 3 48 | 19 6 | 4 22 | 20 39 | 1 33 | 5 39 | 0 21 | 16 7 | 0 59 | 16 8 | 1 9 | 23 42 | 0 15 | 0 1 | 1 27 | 24 36 | 6 16 | 6 32 | 6 23 | 16 1 | 8 3 | 5 29 |
| S 6 | 22 43 | 18 38 | 4 31 | 19 14 | 4 14 | 20 22 | 1 33 | 5 52 | 0 22 | 16 7 | 0 59 | 16 9 | 1 9 | 23 42 | 0 15 | 0 1 | 1 27 | 24 36 | 6 16 | 6 29 | 6 22 | 16 2 | 8 1 | 5 29 |
| M 7 | 22 37 | 18 27 | 4 55 | 19 23 | 4 5 | 20 4 | 1 34 | 6 4 | 0 24 | 16 7 | 0 58 | 16 10 | 1 9 | 23 42 | 0 15 | 0 1 | 1 27 | 24 36 | 6 16 | 6 25 | 6 20 | 16 3 | 7 59 | 5 28 |
| T 8 | 22 30 | 17 2 | 5 0 | 19 33 | 3 55 | 19 46 | 1 34 | 6 17 | 0 25 | 16 7 | 0 58 | 16 11 | 1 9 | 23 42 | 0 15 | 0 1 | 1 27 | 24 35 | 6 16 | 6 21 | 6 19 | 16 4 | 7 58 | 5 28 |
| W 9 | 22 23 | 14 33 | 4 45 | 19 44 | 3 44 | 19 27 | 1 35 | 6 29 | 0 26 | 16 7 | 0 58 | 16 13 | 1 9 | 23 41 | 0 15 | 0 1 | 1 27 | 24 35 | 6 16 | 6 16 | 6 18 | 16 5 | 7 56 | 5 27 |
| T 10 | 22 16 | 11 16 | 4 13 | 19 55 | 3 33 | 19 7 | 1 35 | 6 42 | 0 27 | 16 7 | 0 58 | 16 14 | 1 10 | 23 41 | 0 15 | 0 1 | 1 27 | 24 34 | 6 16 | 6 13 | 6 17 | 16 6 | 7 54 | 5 26 |
| F 11 | 22 8 | 7 29 | 3 28 | 20 7 | 3 21 | 18 47 | 1 35 | 6 54 | 0 28 | 16 7 | 0 57 | 16 15 | 1 10 | 23 41 | 0 15 | 0 1 | 1 27 | 24 34 | 6 16 | 6 10 | 6 16 | 16 7 | 7 52 | 5 26 |
| S 12 | 22 0 | 3 27 | 2 33 | 20 20 | 3 8 | 18 27 | 1 35 | 7 7 | 0 29 | 16 7 | 0 57 | 16 16 | 1 10 | 23 41 | 0 15 | 0 2 | 1 27 | 24 33 | 6 16 | 6 8 | 6 14 | 16 8 | 7 50 | 5 26 |
| S 13 | 21 51 | 0s37 | 1 31 | 20 33 | 2 55 | 18 5 | 1 36 | 7 20 | 0 30 | 16 7 | 0 57 | 16 18 | 1 10 | 23 41 | 0 15 | 0 2 | 1 27 | 24 33 | 6 16 | 6 7 | 6 13 | 16 8 | 7 48 | 5 25 |
| M14 | 21 42 | 4 33 | 0 27 | 20 46 | 2 42 | 17 44 | 1 36 | 7 32 | 0 31 | 16 7 | 0 57 | 16 19 | 1 10 | 23 41 | 0 15 | 0 2 | 1 27 | 24 33 | 6 16 | 6 6 | 6 12 | 16 9 | 7 46 | 5 25 |
| T 15 | 21 33 | 8 13 | 0n37 | 20 59 | 2 28 | 17 22 | 1 36 | 7 45 | 0 33 | 16 8 | 0 56 | 16 20 | 1 10 | 23 41 | 0 15 | 0 2 | 1 27 | 24 32 | 6 16 | 6 6 | 6 11 | 16 10 | 7 44 | 5 24 |
| W16 | 21 23 | 11 29 | 1 39 | 21 12 | 2 14 | 17 0 | 1 35 | 7 58 | 0 34 | 16 8 | 0 56 | 16 22 | 1 10 | 23 41 | 0 15 | 0 2 | 1 27 | 24 32 | 6 16 | 6 6 | 6 9 | 16 11 | 7 42 | 5 24 |
| T 17 | 21 13 | 14 16 | 2 36 | 21 24 | 2 0 | 16 37 | 1 35 | 8 11 | 0 35 | 16 8 | 0 56 | 16 23 | 1 11 | 23 41 | 0 15 | 0 2 | 1 27 | 24 31 | 6 17 | 6 6 | 6 8 | 16 12 | 7 40 | 5 23 |
| F 18 | 21 3 | 16 26 | 3 26 | 21 36 | 1 45 | 16 13 | 1 35 | 8 24 | 0 36 | 16 9 | 0 56 | 16 24 | 1 11 | 23 41 | 0 15 | 0 3 | 1 27 | 24 31 | 6 17 | 6 4 | 6 7 | 16 13 | 7 37 | 5 23 |
| S 19 | 20 52 | 17 55 | 4 7 | 21 46 | 1 31 | 15 50 | 1 35 | 8 37 | 0 37 | 16 9 | 0 55 | 16 26 | 1 11 | 23 41 | 0 15 | 0 3 | 1 27 | 24 30 | 6 17 | 6 2 | 6 6 | 16 14 | 7 35 | 5 22 |
| S 20 | 20 41 | 18 37 | 4 38 | 21 56 | 1 17 | 15 25 | 1 34 | 8 50 | 0 38 | 16 10 | 0 55 | 16 27 | 1 11 | 23 41 | 0 15 | 0 3 | 1 27 | 24 30 | 6 17 | 5 58 | 6 5 | 16 14 | 7 33 | 5 22 |
| M21 | 20 29 | 18 29 | 4 56 | 22 5 | 1 3 | 15 1 | 1 34 | 9 3 | 0 39 | 16 10 | 0 55 | 16 28 | 1 11 | 23 41 | 0 15 | 0 3 | 1 27 | 24 30 | 6 17 | 5 54 | 6 3 | 16 15 | 7 31 | 5 21 |
| T 22 | 20 18 | 17 27 | 5 1 | 22 12 | 0 49 | 14 36 | 1 33 | 9 16 | 0 40 | 16 11 | 0 55 | 16 30 | 1 11 | 23 40 | 0 15 | 0 3 | 1 28 | 24 29 | 6 17 | 5 49 | 6 2 | 16 16 | 7 29 | 5 21 |
| W23 | 20 5 | 15 35 | 4 51 | 22 18 | 0 35 | 14 10 | 1 33 | 9 30 | 0 41 | 16 11 | 0 54 | 16 31 | 1 11 | 23 40 | 0 15 | 0 4 | 1 28 | 24 29 | 6 17 | 5 45 | 6 1 | 16 17 | 7 27 | 5 21 |
| T 24 | 19 53 | 12 55 | 4 27 | 22 21 | 0 21 | 13 45 | 1 32 | 9 43 | 0 41 | 16 12 | 0 54 | 16 33 | 1 11 | 23 40 | 0 15 | 0 4 | 1 28 | 24 28 | 6 17 | 5 40 | 6 0 | 16 18 | 7 24 | 5 20 |
| F 25 | 19 40 | 9 35 | 3 49 | 22 23 | 0 8 | 13 19 | 1 31 | 9 56 | 0 42 | 16 13 | 0 54 | 16 34 | 1 12 | 23 40 | 0 15 | 0 4 | 1 28 | 24 28 | 6 17 | 5 36 | 5 58 | 16 19 | 7 22 | 5 20 |
| S 26 | 19 27 | 5 43 | 2 57 | 22 23 | 0n 4 | 12 52 | 1 30 | 10 9 | 0 43 | 16 14 | 0 54 | 16 35 | 1 12 | 23 40 | 0 15 | 0 5 | 1 28 | 24 28 | 6 17 | 5 34 | 5 57 | 16 20 | 7 20 | 5 19 |
| S 27 | 19 14 | 1 31 | 1 55 | 22 20 | 0 16 | 12 26 | 1 30 | 10 22 | 0 44 | 16 15 | 0 53 | 16 37 | 1 12 | 23 40 | 0 15 | 0 5 | 1 28 | 24 27 | 6 17 | 5 32 | 5 56 | 16 20 | 7 17 | 5 19 |
| M28 | 19 0 | 2n49 | 0 46 | 22 14 | 0 28 | 11 59 | 1 29 | 10 35 | 0 45 | 16 15 | 0 53 | 16 38 | 1 12 | 23 40 | 0 15 | 0 5 | 1 28 | 24 27 | 6 17 | 5 31 | 5 55 | 16 21 | 7 15 | 5 19 |
| T 29 | 18 46 | 7 4 | 0s27 | 22 7 | 0 38 | 11 31 | 1 28 | 10 49 | 0 46 | 16 16 | 0 53 | 16 40 | 1 12 | 23 40 | 0 15 | 0 5 | 1 28 | 24 26 | 6 17 | 5 31 | 5 53 | 16 22 | 7 13 | 5 18 |
| W30 | 18 31 | 10 58 | 1 40 | 21 56 | 0 48 | 11 4 | 1 26 | 11 2 | 0 47 | 16 17 | 0 53 | 16 41 | 1 12 | 23 40 | 0 15 | 0 6 | 1 28 | 24 26 | 6 17 | 5 31 | 5 52 | 16 23 | 7 10 | 5 18 |
| T 31 | 18n17 | 14n18 | 2s47 | 21n43 | 0n58 | 10n36 | 1n25 | 11s15 | 0s48 | 16s18 | 0n52 | 16s43 | 1s12 | 23n40 | 0n15 | 0s 6 | 1s28 | 24n25 | 6n17 | 5s31 | 5s51 | 16s24 | 7n 8 | 5s18 |

Julian Day Number = 2341423.5, Delta T = 14.83 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'53, Lahiri = 19°38'54Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## AUGUST 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 20 40 13 | 9♌ 2'07 | 1♊21 | 29♋ 5 | 7♍21 | 27♎50 | 17♏47 | 17°R35 | 4♋16 | 3°R 6 | 7♌47 | 13°R57 | 14♎46 | 28♏41 | 28♌23 | F 1 |
| S 2 | 20 44 10 | 9°59'37 | 15°44 | 1♌ 6 | 8°33 | 28°24 | 17°50 | 17♒31 | 4°19 | 3♈ 6 | 7°49 | 13♎52 | 14°43 | 28°47 | 28°31 | S 2 |
| S 3 | 20 48 6 | 10°57'08 | 0♋11 | 3° 9 | 9°46 | 28°59 | 17°53 | 17°26 | 4°22 | 3° 5 | 7°51 | 13°46 | 14°40 | 28°54 | 28°39 | S 3 |
| M 4 | 20 52 3 | 11°54'40 | 14°36 | 5°12 | 10°59 | 29°34 | 17°57 | 17°22 | 4°25 | 3° 4 | 7°53 | 13°37 | 14°37 | 29° 1 | 28°47 | M 4 |
| T 5 | 20 55 59 | 12°52'14 | 28°55 | 7°15 | 12°11 | 0♏10 | 18° 1 | 17°17 | 4°28 | 3° 3 | 7°55 | 13°28 | 14°34 | 29° 7 | 28°55 | T 5 |
| W 6 | 20 59 56 | 13°49'48 | 13♌ 1 | 9°19 | 13°24 | 0°45 | 18° 5 | 17°13 | 4°31 | 3° 2 | 7°56 | 13°18 | 14°30 | 29°14 | 29° 4 | W 6 |
| T 7 | 21 3 52 | 14°47'24 | 26°48 | 11°22 | 14°36 | 1°21 | 18° 9 | 17° 8 | 4°34 | 3° 1 | 7°58 | 13°10 | 14°27 | 29°21 | 29°12 | T 7 |
| F 8 | 21 7 49 | 15°45'01 | 10♍15 | 13°26 | 15°49 | 1°56 | 18°13 | 17° 4 | 4°37 | 3° 0 | 8° 0 | 13° 4 | 14°24 | 29°27 | 29°20 | F 8 |
| S 9 | 21 11 45 | 16°42'39 | 23°19 | 15°28 | 17° 1 | 2°32 | 18°17 | 16°59 | 4°40 | 2°59 | 8° 2 | 13° 0 | 14°21 | 29°34 | 29°28 | S 9 |
| S 10 | 21 15 42 | 17°40'18 | 6♎ 1 | 17°30 | 18°13 | 3° 9 | 18°22 | 16°55 | 4°43 | 2°58 | 8° 3 | 12°58 | 14°18 | 29°41 | 29°37 | S 10 |
| M11 | 21 19 39 | 18°37'58 | 18°24 | 19°31 | 19°26 | 3°45 | 18°27 | 16°50 | 4°46 | 2°57 | 8° 5 | 12°D58 | 14°15 | 29°47 | 29°45 | M11 |
| T 12 | 21 23 35 | 19°35'39 | 0♏32 | 21°31 | 20°38 | 4°21 | 18°32 | 16°46 | 4°49 | 2°56 | 8° 7 | 12°59 | 14°11 | 29°54 | 29°53 | T 12 |
| W13 | 21 27 32 | 20°33'21 | 12°29 | 23°30 | 21°50 | 4°58 | 18°37 | 16°41 | 4°51 | 2°55 | 8° 9 | 13° 0 | 14° 8 | 0♐ 1 | 0♍ 2 | W13 |
| T 14 | 21 31 28 | 21°31'05 | 24°21 | 25°28 | 23° 3 | 5°35 | 18°42 | 16°37 | 4°54 | 2°54 | 8°10 | 13°R 0 | 14° 5 | 0° 7 | 0°10 | T 14 |
| F 15 | 21 35 25 | 22°28'49 | 6♐12 | 27°24 | 24°15 | 6°12 | 18°47 | 16°32 | 4°57 | 2°52 | 8°12 | 12°59 | 14° 2 | 0°14 | 0°18 | F 15 |
| S 16 | 21 39 21 | 23°26'35 | 18° 7 | 29°19 | 25°27 | 6°49 | 18°53 | 16°28 | 5° 0 | 2°51 | 8°14 | 12°56 | 13°59 | 0°21 | 0°27 | S 16 |
| S 17 | 21 43 18 | 24°24'22 | 0♑12 | 1♍13 | 26°39 | 7°26 | 18°58 | 16°24 | 5° 2 | 2°50 | 8°16 | 12°51 | 13°55 | 0°28 | 0°35 | S 17 |
| M18 | 21 47 14 | 25°22'10 | 12°29 | 3° 6 | 27°51 | 8° 3 | 19° 4 | 16°19 | 5° 5 | 2°49 | 8°17 | 12°44 | 13°52 | 0°34 | 0°44 | M18 |
| T 19 | 21 51 11 | 26°19'59 | 25° 2 | 4°57 | 29° 3 | 8°41 | 19°10 | 16°15 | 5° 7 | 2°48 | 8°19 | 12°36 | 13°49 | 0°41 | 0°52 | T 19 |
| W20 | 21 55 8 | 27°17'50 | 7♒52 | 6°47 | 0♎15 | 9°18 | 19°16 | 16°10 | 5°10 | 2°46 | 8°21 | 12°28 | 13°46 | 0°48 | 1° 0 | W20 |
| T 21 | 21 59 4 | 28°15'42 | 20°58 | 8°35 | 1°27 | 9°56 | 19°23 | 16° 6 | 5°12 | 2°45 | 8°22 | 12°21 | 13°43 | 0°54 | 1° 9 | T 21 |
| F 22 | 22 3 1 | 29°13'36 | 4♓21 | 10°22 | 2°39 | 10°34 | 19°29 | 16° 2 | 5°15 | 2°44 | 8°24 | 12°15 | 13°40 | 1° 1 | 1°17 | F 22 |
| S 23 | 22 6 57 | 0♍11'31 | 17°58 | 12° 8 | 3°51 | 11°12 | 19°35 | 15°57 | 5°17 | 2°42 | 8°26 | 12°10 | 13°36 | 1° 8 | 1°26 | S 23 |
| S 24 | 22 10 54 | 1° 9'28 | 1♈46 | 13°53 | 5° 3 | 11°50 | 19°42 | 15°53 | 5°20 | 2°41 | 8°27 | 12° 8 | 13°33 | 1°14 | 1°34 | S 24 |
| M25 | 22 14 50 | 2° 7'26 | 15°44 | 15°36 | 6°15 | 12°29 | 19°49 | 15°49 | 5°22 | 2°40 | 8°29 | 12°D 8 | 13°30 | 1°21 | 1°43 | M25 |
| T 26 | 22 18 47 | 3° 5'27 | 29°48 | 17°18 | 7°27 | 13° 7 | 19°56 | 15°45 | 5°24 | 2°38 | 8°31 | 12° 9 | 13°27 | 1°28 | 1°51 | T 26 |
| W27 | 22 22 43 | 4° 3'29 | 13♉56 | 18°59 | 8°39 | 13°46 | 20° 3 | 15°41 | 5°27 | 2°37 | 8°32 | 12°10 | 13°24 | 1°34 | 2° 0 | W27 |
| T 28 | 22 26 40 | 5° 1'33 | 28° 6 | 20°38 | 9°50 | 14°25 | 20°10 | 15°37 | 5°29 | 2°36 | 8°34 | 12°11 | 13°20 | 1°41 | 2° 8 | T 28 |
| F 29 | 22 30 37 | 5°59'40 | 12♊17 | 22°16 | 11° 2 | 15° 3 | 20°18 | 15°32 | 5°31 | 2°34 | 8°36 | 12°R11 | 13°17 | 1°48 | 2°16 | F 29 |
| S 30 | 22 34 33 | 6°57'48 | 26°27 | 23°53 | 12°14 | 15°43 | 20°25 | 15°28 | 5°33 | 2°33 | 8°37 | 12°10 | 13°14 | 1°54 | 2°25 | S 30 |
| S 31 | 22 38 30 | 7♍55'59 | 10♋33 | 25♍29 | 13♎26 | 16♏22 | 20♏33 | 15♒24 | 5♋35 | 2♈31 | 8♌39 | 12♎ 7 | 13♎11 | 2♐ 1 | 2♍33 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 18n 1 | 16n48 | 3s44 | 21n27 | 1n 6 | 10n 7 | 1n24 | 11s28 | 0s49 | 16s20 | 0n52 | 16s44 | 1s12 | 23n40 | 0n15 | 0s 7 | 1s28 | 24n25 | 6n17 | 5s30 | 5s50 | 16s24 | 7n 5 | 5s17 |
| S 2 | 17 46 | 18 16 | 4 28 | 21 9 | 1 14 | 9 39 | 1 23 | 11 42 | 0 49 | 16 21 | 0 52 | 16 45 | 1 12 | 23 40 | 0 15 | 0 7 | 1 28 | 24 25 | 6 17 | 5 29 | 5 49 | 16 25 | 7 3 | 5 17 |
| S 3 | 17 31 | 18 33 | 4 56 | 20 47 | 1 21 | 9 10 | 1 21 | 11 55 | 0 50 | 16 22 | 0 52 | 16 47 | 1 12 | 23 39 | 0 15 | 0 7 | 1 28 | 24 24 | 6 17 | 5 26 | 5 47 | 16 26 | 7 0 | 5 17 |
| M 4 | 17 15 | 17 38 | 5 4 | 20 24 | 1 27 | 8 41 | 1 20 | 12 8 | 0 51 | 16 23 | 0 51 | 16 48 | 1 13 | 23 39 | 0 15 | 0 8 | 1 28 | 24 24 | 6 18 | 5 23 | 5 46 | 16 27 | 6 58 | 5 16 |
| T 5 | 16 59 | 15 37 | 4 53 | 19 58 | 1 32 | 8 12 | 1 18 | 12 21 | 0 52 | 16 24 | 0 51 | 16 50 | 1 13 | 23 39 | 0 15 | 0 8 | 1 28 | 24 23 | 6 18 | 5 19 | 5 45 | 16 28 | 6 55 | 5 16 |
| W 6 | 16 42 | 12 42 | 4 25 | 19 30 | 1 36 | 7 43 | 1 16 | 12 35 | 0 53 | 16 26 | 0 51 | 16 51 | 1 13 | 23 39 | 0 15 | 0 8 | 1 28 | 24 23 | 6 18 | 5 16 | 5 44 | 16 29 | 6 53 | 5 16 |
| T 7 | 16 25 | 9 8 | 3 41 | 18 59 | 1 40 | 7 13 | 1 15 | 12 48 | 0 54 | 16 27 | 0 51 | 16 53 | 1 13 | 23 39 | 0 15 | 0 9 | 1 28 | 24 23 | 6 18 | 5 12 | 5 42 | 16 29 | 6 50 | 5 15 |
| F 8 | 16 8 | 5 11 | 2 46 | 18 27 | 1 42 | 6 43 | 1 13 | 13 1 | 0 54 | 16 28 | 0 50 | 16 54 | 1 13 | 23 39 | 0 15 | 0 9 | 1 28 | 24 22 | 6 18 | 5 10 | 5 41 | 16 30 | 6 48 | 5 15 |
| S 9 | 15 51 | 1 5 | 1 43 | 17 53 | 1 44 | 6 13 | 1 11 | 13 14 | 0 55 | 16 30 | 0 50 | 16 56 | 1 13 | 23 39 | 0 15 | 0 10 | 1 28 | 24 22 | 6 18 | 5 8 | 5 40 | 16 31 | 6 45 | 5 15 |
| S 10 | 15 34 | 2s58 | 0 37 | 17 17 | 1 45 | 5 43 | 1 9 | 13 27 | 0 56 | 16 31 | 0 50 | 16 57 | 1 13 | 23 39 | 0 15 | 0 10 | 1 28 | 24 22 | 6 18 | 5 8 | 5 39 | 16 32 | 6 43 | 5 15 |
| M11 | 15 16 | 6 46 | 0n29 | 16 40 | 1 46 | 5 13 | 1 7 | 13 40 | 0 57 | 16 33 | 0 50 | 16 59 | 1 13 | 23 39 | 0 15 | 0 11 | 1 28 | 24 21 | 6 18 | 5 8 | 5 37 | 16 33 | 6 40 | 5 14 |
| T 12 | 14 58 | 10 13 | 1 33 | 16 1 | 1 46 | 4 43 | 1 5 | 13 53 | 0 57 | 16 34 | 0 49 | 17 0 | 1 13 | 23 39 | 0 15 | 0 11 | 1 29 | 24 21 | 6 18 | 5 8 | 5 36 | 16 33 | 6 37 | 5 14 |
| W13 | 14 40 | 13 12 | 2 32 | 15 21 | 1 45 | 4 12 | 1 3 | 14 6 | 0 58 | 16 36 | 0 49 | 17 1 | 1 13 | 23 39 | 0 15 | 0 12 | 1 29 | 24 20 | 6 18 | 5 8 | 5 35 | 16 34 | 6 35 | 5 14 |
| T 14 | 14 21 | 15 35 | 3 24 | 14 41 | 1 44 | 3 42 | 1 1 | 14 19 | 0 59 | 16 38 | 0 49 | 17 3 | 1 13 | 23 39 | 0 15 | 0 12 | 1 29 | 24 20 | 6 19 | 5 8 | 5 34 | 16 35 | 6 32 | 5 14 |
| F 15 | 14 2 | 17 19 | 4 7 | 13 59 | 1 42 | 3 11 | 0 58 | 14 32 | 0 59 | 16 39 | 0 49 | 17 4 | 1 13 | 23 38 | 0 16 | 0 13 | 1 29 | 24 20 | 6 19 | 5 8 | 5 33 | 16 36 | 6 29 | 5 13 |
| S 16 | 13 44 | 18 18 | 4 40 | 13 16 | 1 39 | 2 40 | 0 56 | 14 45 | 1 0 | 16 41 | 0 48 | 17 6 | 1 14 | 23 38 | 0 16 | 0 13 | 1 29 | 24 19 | 6 19 | 5 7 | 5 31 | 16 36 | 6 27 | 5 13 |
| S 17 | 13 24 | 18 28 | 5 1 | 12 33 | 1 36 | 2 9 | 0 54 | 14 58 | 1 1 | 16 43 | 0 48 | 17 7 | 1 14 | 23 38 | 0 16 | 0 14 | 1 29 | 24 19 | 6 19 | 5 5 | 5 30 | 16 37 | 6 24 | 5 13 |
| M18 | 13 5 | 17 47 | 5 8 | 11 49 | 1 32 | 1 38 | 0 51 | 15 11 | 1 1 | 16 45 | 0 48 | 17 8 | 1 14 | 23 38 | 0 16 | 0 14 | 1 29 | 24 19 | 6 19 | 5 2 | 5 29 | 16 38 | 6 21 | 5 13 |
| T 19 | 12 46 | 16 14 | 5 1 | 11 5 | 1 28 | 1 7 | 0 49 | 15 24 | 1 2 | 16 47 | 0 48 | 17 10 | 1 14 | 23 38 | 0 16 | 0 15 | 1 29 | 24 18 | 6 19 | 4 59 | 5 28 | 16 39 | 6 19 | 5 12 |
| W20 | 12 26 | 13 50 | 4 39 | 10 20 | 1 24 | 0 36 | 0 46 | 15 36 | 1 3 | 16 48 | 0 48 | 17 11 | 1 14 | 23 38 | 0 16 | 0 15 | 1 29 | 24 18 | 6 19 | 4 56 | 5 26 | 16 40 | 6 16 | 5 12 |
| T 21 | 12 6 | 10 43 | 4 1 | 9 35 | 1 19 | 0 5 | 0 43 | 15 49 | 1 3 | 16 50 | 0 47 | 17 13 | 1 14 | 23 38 | 0 16 | 0 16 | 1 29 | 24 18 | 6 19 | 4 53 | 5 25 | 16 40 | 6 13 | 5 12 |
| F 22 | 11 46 | 6 59 | 3 10 | 8 50 | 1 14 | 0s26 | 0 41 | 16 2 | 1 4 | 16 52 | 0 47 | 17 14 | 1 14 | 23 38 | 0 16 | 0 16 | 1 29 | 24 17 | 6 19 | 4 51 | 5 24 | 16 41 | 6 10 | 5 12 |
| S 23 | 11 25 | 2 49 | 2 7 | 8 5 | 1 9 | 0 57 | 0 38 | 16 14 | 1 5 | 16 54 | 0 47 | 17 15 | 1 14 | 23 38 | 0 16 | 0 17 | 1 29 | 24 17 | 6 20 | 4 49 | 5 23 | 16 42 | 6 7 | 5 12 |
| S 24 | 11 5 | 1n34 | 0 56 | 7 19 | 1 3 | 1 28 | 0 35 | 16 27 | 1 5 | 16 56 | 0 47 | 17 17 | 1 14 | 23 38 | 0 16 | 0 17 | 1 29 | 24 17 | 6 20 | 4 48 | 5 21 | 16 43 | 6 5 | 5 12 |
| M25 | 10 44 | 5 54 | 0s20 | 6 34 | 0 57 | 2 0 | 0 32 | 16 39 | 1 6 | 16 58 | 0 46 | 17 18 | 1 14 | 23 38 | 0 16 | 0 18 | 1 29 | 24 16 | 6 20 | 4 48 | 5 20 | 16 43 | 6 2 | 5 11 |
| T 26 | 10 23 | 9 56 | 1 35 | 5 48 | 0 51 | 2 31 | 0 29 | 16 51 | 1 6 | 17 0 | 0 46 | 17 19 | 1 14 | 23 38 | 0 16 | 0 19 | 1 29 | 24 16 | 6 20 | 4 48 | 5 19 | 16 44 | 5 59 | 5 11 |
| W27 | 10 2 | 13 26 | 2 44 | 5 3 | 0 44 | 3 2 | 0 26 | 17 4 | 1 7 | 17 3 | 0 46 | 17 20 | 1 14 | 23 38 | 0 16 | 0 19 | 1 29 | 24 16 | 6 20 | 4 49 | 5 18 | 16 45 | 5 56 | 5 11 |
| T 28 | 9 41 | 16 7 | 3 44 | 4 18 | 0 38 | 3 33 | 0 23 | 17 16 | 1 8 | 17 5 | 0 46 | 17 22 | 1 14 | 23 37 | 0 16 | 0 20 | 1 29 | 24 15 | 6 20 | 4 49 | 5 16 | 16 46 | 5 53 | 5 11 |
| F 29 | 9 20 | 17 50 | 4 30 | 3 32 | 0 31 | 4 4 | 0 20 | 17 28 | 1 8 | 17 7 | 0 46 | 17 23 | 1 14 | 23 37 | 0 16 | 0 20 | 1 29 | 24 15 | 6 20 | 4 49 | 5 15 | 16 46 | 5 50 | 5 11 |
| S 30 | 8 58 | 18 26 | 5 0 | 2 47 | 0 23 | 4 35 | 0 17 | 17 40 | 1 9 | 17 9 | 0 45 | 17 24 | 1 14 | 23 37 | 0 16 | 0 21 | 1 29 | 24 15 | 6 21 | 4 49 | 5 14 | 16 47 | 5 48 | 5 11 |
| S 31 | 8n36 | 17n53 | 5s12 | 2n 3 | 0n16 | 5s 6 | 0n14 | 17s52 | 1s 9 | 17s11 | 0n45 | 17s25 | 1s14 | 23n37 | 0n16 | 0s22 | 1s29 | 24n15 | 6n21 | 4s48 | 5s13 | 16s48 | 5n45 | 5s11 |

Julian Day Number = 2341454.5, Delta T = 14.79 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°31'58, Lahiri = 19°38'58Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## SEPTEMBER 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 22 42 26 | 8♍54'11 | 24♋34 | 27♍ 4 | 14♎37 | 17♏ 1 | 20♏41 | 15°R20 | 5♋37 | 2°R30 | 8♌40 | 12°R 3 | 13♎ 8 | 2♐ 8 | 2♍42 | M 1 |
| T 2 | 22 46 23 | 9°52'26 | 8♌25 | 28°37 | 15°49 | 17°40 | 20°48 | 15♒17 | 5°39 | 2♈28 | 8°42 | 11♎58 | 13° 5 | 2°15 | 2°50 | T 2 |
| W 3 | 22 50 19 | 10°50'42 | 22° 4 | 0♎ 9 | 17° 0 | 18°20 | 20°57 | 15°13 | 5°41 | 2°27 | 8°44 | 11°53 | 13° 1 | 2°21 | 2°59 | W 3 |
| T 4 | 22 54 16 | 11°49'00 | 5♍29 | 1°40 | 18°12 | 19° 0 | 21° 5 | 15° 9 | 5°43 | 2°25 | 8°45 | 11°48 | 12°58 | 2°28 | 3° 7 | T 4 |
| F 5 | 22 58 12 | 12°47'20 | 18°37 | 3°10 | 19°23 | 19°39 | 21°13 | 15° 5 | 5°45 | 2°24 | 8°47 | 11°45 | 12°55 | 2°35 | 3°15 | F 5 |
| S 6 | 23 2 9 | 13°45'42 | 1♎27 | 4°38 | 20°35 | 20°19 | 21°21 | 15° 2 | 5°47 | 2°22 | 8°48 | 11°43 | 12°52 | 2°41 | 3°24 | S 6 |
| S 7 | 23 6 5 | 14°44'05 | 14° 1 | 6° 6 | 21°46 | 20°59 | 21°30 | 14°58 | 5°49 | 2°21 | 8°50 | 11°D43 | 12°49 | 2°48 | 3°32 | S 7 |
| M 8 | 23 10 2 | 15°42'30 | 26°20 | 7°32 | 22°57 | 21°39 | 21°39 | 14°54 | 5°51 | 2°19 | 8°51 | 11°44 | 12°46 | 2°55 | 3°41 | M 8 |
| T 9 | 23 13 59 | 16°40'57 | 8♏26 | 8°57 | 24° 8 | 22°20 | 21°47 | 14°51 | 5°52 | 2°17 | 8°53 | 11°45 | 12°42 | 3° 1 | 3°49 | T 9 |
| W10 | 23 17 55 | 17°39'26 | 20°22 | 10°21 | 25°20 | 23° 0 | 21°56 | 14°48 | 5°54 | 2°16 | 8°54 | 11°47 | 12°39 | 3° 8 | 3°57 | W10 |
| T 11 | 23 21 52 | 18°37'56 | 2♐14 | 11°43 | 26°31 | 23°41 | 22° 5 | 14°44 | 5°56 | 2°14 | 8°56 | 11°48 | 12°36 | 3°15 | 4° 6 | T 11 |
| F 12 | 23 25 48 | 19°36'29 | 14° 5 | 13° 4 | 27°42 | 24°21 | 22°14 | 14°41 | 5°57 | 2°13 | 8°57 | 11°49 | 12°33 | 3°21 | 4°14 | F 12 |
| S 13 | 23 29 45 | 20°35'02 | 26° 1 | 14°24 | 28°53 | 25° 2 | 22°23 | 14°38 | 5°59 | 2°11 | 8°58 | 11°R49 | 12°30 | 3°28 | 4°22 | S 13 |
| S 14 | 23 33 41 | 21°33'38 | 8♑ 5 | 15°42 | 0♏ 4 | 25°43 | 22°33 | 14°35 | 6° 0 | 2° 9 | 9° 0 | 11°48 | 12°26 | 3°35 | 4°30 | S 14 |
| M15 | 23 37 38 | 22°32'15 | 20°24 | 16°59 | 1°15 | 26°24 | 22°42 | 14°32 | 6° 2 | 2° 8 | 9° 1 | 11°47 | 12°23 | 3°42 | 4°39 | M15 |
| T 16 | 23 41 34 | 23°30'54 | 3♒ 0 | 18°15 | 2°26 | 27° 5 | 22°52 | 14°29 | 6° 3 | 2° 6 | 9° 3 | 11°44 | 12°20 | 3°48 | 4°47 | T 16 |
| W17 | 23 45 31 | 24°29'34 | 15°56 | 19°28 | 3°37 | 27°46 | 23° 1 | 14°26 | 6° 4 | 2° 4 | 9° 4 | 11°42 | 12°17 | 3°55 | 4°55 | W17 |
| T 18 | 23 49 28 | 25°28'17 | 29°13 | 20°41 | 4°47 | 28°27 | 23°11 | 14°23 | 6° 6 | 2° 3 | 9° 5 | 11°39 | 12°14 | 4° 2 | 5° 3 | T 18 |
| F 19 | 23 53 24 | 26°27'01 | 12♓52 | 21°51 | 5°58 | 29° 9 | 23°21 | 14°20 | 6° 7 | 2° 1 | 9° 6 | 11°37 | 12°11 | 4° 8 | 5°11 | F 19 |
| S 20 | 23 57 21 | 27°25'47 | 26°50 | 22°59 | 7° 9 | 29°50 | 23°31 | 14°17 | 6° 8 | 1°59 | 9° 8 | 11°36 | 12° 7 | 4°15 | 5°20 | S 20 |
| S 21 | 0 1 17 | 28°24'35 | 11♈ 4 | 24° 6 | 8°19 | 0♐32 | 23°41 | 14°15 | 6° 9 | 1°58 | 9° 9 | 11°D36 | 12° 4 | 4°22 | 5°28 | S 21 |
| M22 | 0 5 14 | 29°23'25 | 25°29 | 25°10 | 9°30 | 1°14 | 23°51 | 14°12 | 6°10 | 1°56 | 9°10 | 11°36 | 12° 1 | 4°28 | 5°36 | M22 |
| T 23 | 0 9 10 | 0♎22'17 | 10♉ 0 | 26°12 | 10°40 | 1°55 | 24° 1 | 14°10 | 6°11 | 1°54 | 9°12 | 11°37 | 11°58 | 4°35 | 5°44 | T 23 |
| W24 | 0 13 7 | 1°21'12 | 24°31 | 27°12 | 11°51 | 2°37 | 24°12 | 14° 8 | 6°12 | 1°53 | 9°13 | 11°38 | 11°55 | 4°42 | 5°52 | W24 |
| T 25 | 0 17 3 | 2°20'09 | 8♊57 | 28° 9 | 13° 1 | 3°19 | 24°22 | 14° 5 | 6°13 | 1°51 | 9°14 | 11°39 | 11°52 | 4°48 | 6° 0 | T 25 |
| F 26 | 0 21 0 | 3°19'08 | 23°16 | 29° 3 | 14°11 | 4° 1 | 24°33 | 14° 3 | 6°14 | 1°49 | 9°15 | 11°39 | 11°48 | 4°55 | 6° 8 | F 26 |
| S 27 | 0 24 57 | 4°18'10 | 7♋23 | 29°54 | 15°21 | 4°44 | 24°43 | 14° 1 | 6°15 | 1°48 | 9°16 | 11°R39 | 11°45 | 5° 2 | 6°16 | S 27 |
| S 28 | 0 28 53 | 5°17'14 | 21°18 | 0♏41 | 16°31 | 5°26 | 24°54 | 13°59 | 6°15 | 1°46 | 9°17 | 11°39 | 11°42 | 5° 9 | 6°24 | S 28 |
| M29 | 0 32 50 | 6°16'20 | 5♌ 0 | 1°25 | 17°41 | 6° 8 | 25° 5 | 13°57 | 6°16 | 1°44 | 9°18 | 11°38 | 11°39 | 5°15 | 6°31 | M29 |
| T 30 | 0 36 46 | 7♎15'29 | 18♌28 | 2♏ 5 | 18♏51 | 6♐51 | 25♏16 | 13♒55 | 6♋17 | 1♈43 | 9♌20 | 11♎38 | 11♎36 | 5♐22 | 6♍39 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 8n15 | 16n15 | 5s 4 | 1n18 | 0n 9 | 5s36 | 0n11 | 18s 3 | 1s10 | 17s14 | 0n45 | 17s27 | 1s14 | 23n37 | 0n16 | 0s22 | 1s29 | 24n14 | 6n21 | 4s46 | 5s12 | 16s48 | 5n42 | 5s10 |
| T 2 | 7 53 | 13 41 | 4 39 | 0 34 | 0 1 | 6 7 | 0 8 | 18 15 | 1 10 | 17 16 | 0 45 | 17 28 | 1 14 | 23 37 | 0 16 | 0 23 | 1 29 | 24 14 | 6 21 | 4 44 | 5 10 | 16 49 | 5 39 | 5 10 |
| W 3 | 7 31 | 10 24 | 3 59 | 0s10 | 0s 6 | 6 37 | 0 4 | 18 27 | 1 11 | 17 18 | 0 45 | 17 29 | 1 14 | 23 37 | 0 16 | 0 23 | 1 29 | 24 14 | 6 21 | 4 42 | 5 9 | 16 50 | 5 36 | 5 10 |
| T 4 | 7 8 | 6 38 | 3 6 | 0 53 | 0 14 | 7 8 | 0 1 | 18 38 | 1 11 | 17 20 | 0 44 | 17 30 | 1 14 | 23 37 | 0 16 | 0 24 | 1 29 | 24 13 | 6 21 | 4 40 | 5 8 | 16 51 | 5 33 | 5 10 |
| F 5 | 6 46 | 2 37 | 2 3 | 1 36 | 0 22 | 7 38 | 0s 2 | 18 50 | 1 12 | 17 23 | 0 44 | 17 31 | 1 14 | 23 37 | 0 16 | 0 25 | 1 29 | 24 13 | 6 22 | 4 39 | 5 7 | 16 51 | 5 30 | 5 10 |
| S 6 | 6 24 | 1s26 | 0 56 | 2 18 | 0 30 | 8 8 | 0 6 | 19 1 | 1 12 | 17 25 | 0 44 | 17 32 | 1 14 | 23 37 | 0 16 | 0 25 | 1 29 | 24 13 | 6 22 | 4 39 | 5 5 | 16 52 | 5 27 | 5 10 |
| S 7 | 6 1 | 5 21 | 0n13 | 3 0 | 0 38 | 8 38 | 0 9 | 19 12 | 1 13 | 17 28 | 0 44 | 17 33 | 1 14 | 23 37 | 0 16 | 0 26 | 1 29 | 24 13 | 6 22 | 4 38 | 5 4 | 16 53 | 5 24 | 5 10 |
| M 8 | 5 39 | 8 57 | 1 20 | 3 42 | 0 46 | 9 8 | 0 13 | 19 23 | 1 13 | 17 30 | 0 44 | 17 34 | 1 14 | 23 37 | 0 16 | 0 27 | 1 29 | 24 12 | 6 22 | 4 39 | 5 3 | 16 53 | 5 21 | 5 10 |
| T 9 | 5 16 | 12 6 | 2 22 | 4 23 | 0 54 | 9 38 | 0 16 | 19 34 | 1 14 | 17 32 | 0 43 | 17 35 | 1 14 | 23 37 | 0 16 | 0 27 | 1 29 | 24 12 | 6 22 | 4 39 | 5 2 | 16 54 | 5 19 | 5 10 |
| W10 | 4 53 | 14 42 | 3 17 | 5 3 | 1 2 | 10 7 | 0 20 | 19 45 | 1 14 | 17 35 | 0 43 | 17 36 | 1 14 | 23 37 | 0 16 | 0 28 | 1 29 | 24 12 | 6 22 | 4 40 | 5 0 | 16 55 | 5 16 | 5 10 |
| T 11 | 4 30 | 16 40 | 4 3 | 5 43 | 1 10 | 10 36 | 0 23 | 19 55 | 1 15 | 17 37 | 0 43 | 17 37 | 1 14 | 23 37 | 0 16 | 0 29 | 1 29 | 24 12 | 6 23 | 4 41 | 4 59 | 16 56 | 5 13 | 5 10 |
| F 12 | 4 7 | 17 54 | 4 39 | 6 22 | 1 18 | 11 5 | 0 27 | 20 6 | 1 15 | 17 40 | 0 43 | 17 38 | 1 14 | 23 37 | 0 16 | 0 29 | 1 29 | 24 12 | 6 23 | 4 41 | 4 58 | 16 56 | 5 10 | 5 10 |
| S 13 | 3 44 | 18 21 | 5 4 | 7 1 | 1 26 | 11 34 | 0 30 | 20 16 | 1 15 | 17 42 | 0 43 | 17 39 | 1 14 | 23 37 | 0 16 | 0 30 | 1 29 | 24 11 | 6 23 | 4 41 | 4 57 | 16 57 | 5 7 | 5 10 |
| S 14 | 3 21 | 17 59 | 5 15 | 7 38 | 1 34 | 12 3 | 0 34 | 20 27 | 1 16 | 17 45 | 0 43 | 17 40 | 1 14 | 23 37 | 0 16 | 0 31 | 1 29 | 24 11 | 6 23 | 4 40 | 4 55 | 16 58 | 5 4 | 5 10 |
| M15 | 2 58 | 16 47 | 5 12 | 8 15 | 1 42 | 12 31 | 0 38 | 20 37 | 1 16 | 17 48 | 0 42 | 17 41 | 1 14 | 23 36 | 0 16 | 0 31 | 1 30 | 24 11 | 6 23 | 4 40 | 4 54 | 16 58 | 5 1 | 5 10 |
| T 16 | 2 35 | 14 45 | 4 54 | 8 51 | 1 50 | 12 59 | 0 41 | 20 47 | 1 17 | 17 50 | 0 42 | 17 42 | 1 14 | 23 36 | 0 16 | 0 32 | 1 30 | 24 11 | 6 24 | 4 39 | 4 53 | 16 59 | 4 58 | 5 10 |
| W17 | 2 11 | 11 56 | 4 21 | 9 27 | 1 58 | 13 27 | 0 45 | 20 57 | 1 17 | 17 53 | 0 42 | 17 43 | 1 14 | 23 36 | 0 16 | 0 33 | 1 30 | 24 11 | 6 24 | 4 38 | 4 52 | 17 0 | 4 55 | 5 10 |
| T 18 | 1 48 | 8 26 | 3 33 | 10 1 | 2 5 | 13 54 | 0 49 | 21 6 | 1 17 | 17 55 | 0 42 | 17 44 | 1 14 | 23 36 | 0 16 | 0 33 | 1 30 | 24 10 | 6 24 | 4 37 | 4 50 | 17 0 | 4 52 | 5 10 |
| F 19 | 1 25 | 4 24 | 2 32 | 10 35 | 2 13 | 14 21 | 0 52 | 21 16 | 1 18 | 17 58 | 0 42 | 17 44 | 1 14 | 23 36 | 0 16 | 0 34 | 1 30 | 24 10 | 6 24 | 4 36 | 4 49 | 17 1 | 4 49 | 5 10 |
| S 20 | 1 1 | 0 1 | 1 21 | 11 7 | 2 20 | 14 48 | 0 56 | 21 25 | 1 18 | 18 1 | 0 41 | 17 45 | 1 14 | 23 36 | 0 16 | 0 35 | 1 30 | 24 10 | 6 24 | 4 36 | 4 48 | 17 2 | 4 46 | 5 10 |
| S 21 | 0 38 | 4n26 | 0 3 | 11 38 | 2 27 | 15 14 | 1 0 | 21 34 | 1 18 | 18 3 | 0 41 | 17 46 | 1 14 | 23 36 | 0 16 | 0 35 | 1 30 | 24 10 | 6 25 | 4 36 | 4 47 | 17 2 | 4 43 | 5 10 |
| M22 | 0 15 | 8 41 | 1s16 | 12 9 | 2 34 | 15 41 | 1 3 | 21 43 | 1 19 | 18 6 | 0 41 | 17 47 | 1 14 | 23 36 | 0 16 | 0 36 | 1 30 | 24 10 | 6 25 | 4 36 | 4 45 | 17 3 | 4 40 | 5 10 |
| T 23 | 0s 9 | 12 27 | 2 31 | 12 38 | 2 41 | 16 6 | 1 7 | 21 52 | 1 19 | 18 9 | 0 41 | 17 47 | 1 14 | 23 36 | 0 16 | 0 37 | 1 30 | 24 10 | 6 25 | 4 36 | 4 44 | 17 4 | 4 37 | 5 10 |
| W24 | 0 32 | 15 26 | 3 36 | 13 5 | 2 47 | 16 32 | 1 11 | 22 1 | 1 19 | 18 11 | 0 41 | 17 48 | 1 14 | 23 36 | 0 16 | 0 37 | 1 30 | 24 10 | 6 25 | 4 36 | 4 43 | 17 4 | 4 34 | 5 10 |
| T 25 | 0 56 | 17 26 | 4 27 | 13 32 | 2 53 | 16 57 | 1 14 | 22 9 | 1 20 | 18 14 | 0 41 | 17 49 | 1 14 | 23 36 | 0 16 | 0 38 | 1 30 | 24 9 | 6 25 | 4 37 | 4 42 | 17 5 | 4 31 | 5 10 |
| F 26 | 1 19 | 18 18 | 5 1 | 13 57 | 2 59 | 17 22 | 1 18 | 22 18 | 1 20 | 18 17 | 0 40 | 17 49 | 1 14 | 23 36 | 0 16 | 0 39 | 1 30 | 24 9 | 6 26 | 4 37 | 4 40 | 17 6 | 4 28 | 5 10 |
| S 27 | 1 43 | 18 0 | 5 16 | 14 20 | 3 5 | 17 46 | 1 22 | 22 26 | 1 20 | 18 20 | 0 40 | 17 50 | 1 14 | 23 36 | 0 16 | 0 39 | 1 30 | 24 9 | 6 26 | 4 37 | 4 39 | 17 6 | 4 25 | 5 10 |
| S 28 | 2 6 | 16 38 | 5 13 | 14 41 | 3 10 | 18 10 | 1 25 | 22 34 | 1 21 | 18 22 | 0 40 | 17 50 | 1 14 | 23 36 | 0 16 | 0 40 | 1 30 | 24 9 | 6 26 | 4 37 | 4 38 | 17 7 | 4 22 | 5 10 |
| M29 | 2 30 | 14 20 | 4 51 | 15 1 | 3 14 | 18 33 | 1 29 | 22 41 | 1 21 | 18 25 | 0 40 | 17 51 | 1 14 | 23 36 | 0 16 | 0 41 | 1 30 | 24 9 | 6 26 | 4 37 | 4 37 | 17 8 | 4 19 | 5 10 |
| T 30 | 2s53 | 11n17 | 4s14 | 15s19 | 3s18 | 18s56 | 1s32 | 22s49 | 1s21 | 18s28 | 0n40 | 17s51 | 1s14 | 23n36 | 0n17 | 0s41 | 1s30 | 24n 9 | 6n26 | 4s36 | 4s36 | 17s 8 | 4n16 | 5s10 |

Julian Day Number = 2341485.5, Delta T = 14.76 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'02, Lahiri = 19°39'02Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## OCTOBER 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 0 40 43 | 8♎14'40 | 1♍41 | 2♏41 | 20♏ 1 | 7♐34 | 25♏27 | 13°R54 | 6♋17 | 1°R41 | 9♌21 | 11°R37 | 11♎32 | 5♐29 | 6♍47 | W 1 |
| T 2 | 0 44 39 | 9°13'53 | 14°41 | 3°11 | 21°11 | 8°16 | 25°38 | 13♒52 | 6°18 | 1♈39 | 9°22 | 11♎37 | 11°29 | 5°35 | 6°55 | T 2 |
| F 3 | 0 48 36 | 10°13'08 | 27°27 | 3°37 | 22°21 | 8°59 | 25°49 | 13°51 | 6°18 | 1°38 | 9°23 | 11°37 | 11°26 | 5°42 | 7° 2 | F 3 |
| S 4 | 0 52 32 | 11°12'26 | 10♎ 0 | 3°57 | 23°31 | 9°42 | 26° 0 | 13°49 | 6°19 | 1°36 | 9°24 | 11°37 | 11°23 | 5°49 | 7°10 | S 4 |
| S 5 | 0 56 29 | 12°11'45 | 22°22 | 4°11 | 24°40 | 10°25 | 26°11 | 13°48 | 6°19 | 1°35 | 9°25 | 11°37 | 11°20 | 5°55 | 7°18 | S 5 |
| M 6 | 1 0 25 | 13°11'07 | 4♏32 | 4°R18 | 25°50 | 11° 8 | 26°23 | 13°47 | 6°20 | 1°33 | 9°26 | 11°37 | 11°17 | 6° 2 | 7°25 | M 6 |
| T 7 | 1 4 22 | 14°10'30 | 16°33 | 4°18 | 26°59 | 11°51 | 26°34 | 13°45 | 6°20 | 1°31 | 9°26 | 11°37 | 11°13 | 6° 9 | 7°33 | T 7 |
| W 8 | 1 8 19 | 15° 9'55 | 28°27 | 4°10 | 28° 8 | 12°34 | 26°46 | 13°44 | 6°20 | 1°30 | 9°27 | 11°36 | 11°10 | 6°16 | 7°40 | W 8 |
| T 9 | 1 12 15 | 16° 9'23 | 10♐18 | 3°54 | 29°18 | 13°18 | 26°57 | 13°43 | 6°20 | 1°28 | 9°28 | 11°36 | 11° 7 | 6°22 | 7°48 | T 9 |
| F 10 | 1 16 12 | 17° 8'52 | 22° 8 | 3°30 | 0♐27 | 14° 1 | 27° 9 | 13°43 | 6°20 | 1°26 | 9°29 | 11°35 | 11° 4 | 6°29 | 7°55 | F 10 |
| S 11 | 1 20 8 | 18° 8'23 | 4♑ 3 | 2°58 | 1°36 | 14°45 | 27°21 | 13°42 | 6°20 | 1°25 | 9°30 | 11°35 | 11° 1 | 6°36 | 8° 2 | S 11 |
| S 12 | 1 24 5 | 19° 7'56 | 16° 5 | 2°17 | 2°45 | 15°28 | 27°32 | 13°41 | 6°R21 | 1°23 | 9°31 | 11°D34 | 10°57 | 6°42 | 8°10 | S 12 |
| M13 | 1 28 1 | 20° 7'30 | 28°20 | 1°28 | 3°54 | 16°12 | 27°44 | 13°41 | 6°20 | 1°22 | 9°32 | 11°34 | 10°54 | 6°49 | 8°17 | M13 |
| T 14 | 1 31 58 | 21° 7'07 | 10♒53 | 0°31 | 5° 2 | 16°56 | 27°56 | 13°40 | 6°20 | 1°20 | 9°32 | 11°35 | 10°51 | 6°56 | 8°24 | T 14 |
| W15 | 1 35 54 | 22° 6'45 | 23°46 | 29♎27 | 6°11 | 17°39 | 28° 8 | 13°40 | 6°20 | 1°19 | 9°33 | 11°36 | 10°48 | 7° 2 | 8°31 | W15 |
| T 16 | 1 39 51 | 23° 6'25 | 7♓ 4 | 28°18 | 7°20 | 18°23 | 28°20 | 13°40 | 6°20 | 1°17 | 9°34 | 11°37 | 10°45 | 7° 9 | 8°38 | T 16 |
| F 17 | 1 43 48 | 24° 6'06 | 20°48 | 27° 5 | 8°28 | 19° 7 | 28°32 | 13°40 | 6°20 | 1°16 | 9°34 | 11°38 | 10°42 | 7°16 | 8°45 | F 17 |
| S 18 | 1 47 44 | 25° 5'49 | 4♈57 | 25°50 | 9°36 | 19°51 | 28°45 | 13°D40 | 6°19 | 1°14 | 9°35 | 11°R38 | 10°38 | 7°22 | 8°52 | S 18 |
| S 19 | 1 51 41 | 26° 5'35 | 19°28 | 24°35 | 10°44 | 20°36 | 28°57 | 13°40 | 6°19 | 1°13 | 9°36 | 11°38 | 10°35 | 7°29 | 8°59 | S 19 |
| M20 | 1 55 37 | 27° 5'22 | 4♉16 | 23°22 | 11°52 | 21°20 | 29° 9 | 13°40 | 6°19 | 1°11 | 9°36 | 11°37 | 10°32 | 7°36 | 9° 6 | M20 |
| T 21 | 1 59 34 | 28° 5'11 | 19°14 | 22°14 | 13° 0 | 22° 4 | 29°21 | 13°40 | 6°18 | 1°10 | 9°37 | 11°36 | 10°29 | 7°43 | 9°12 | T 21 |
| W22 | 2 3 30 | 29° 5'03 | 4♊12 | 21°13 | 14° 8 | 22°48 | 29°34 | 13°41 | 6°18 | 1° 8 | 9°37 | 11°34 | 10°26 | 7°49 | 9°19 | W22 |
| T 23 | 2 7 27 | 0♏ 4'56 | 19° 2 | 20°20 | 15°15 | 23°33 | 29°46 | 13°41 | 6°17 | 1° 7 | 9°38 | 11°31 | 10°23 | 7°56 | 9°26 | T 23 |
| F 24 | 2 11 23 | 1° 4'52 | 3♋39 | 19°37 | 16°23 | 24°17 | 29°59 | 13°42 | 6°17 | 1° 5 | 9°38 | 11°29 | 10°19 | 8° 3 | 9°32 | F 24 |
| S 25 | 2 15 20 | 2° 4'50 | 17°56 | 19° 5 | 17°30 | 25° 2 | 0♐11 | 13°42 | 6°16 | 1° 4 | 9°39 | 11°28 | 10°16 | 8° 9 | 9°39 | S 25 |
| S 26 | 2 19 17 | 3° 4'50 | 1♌52 | 18°44 | 18°37 | 25°47 | 0°24 | 13°43 | 6°15 | 1° 3 | 9°39 | 11°D27 | 10°13 | 8°16 | 9°45 | S 26 |
| M27 | 2 23 13 | 4° 4'53 | 15°26 | 18°D35 | 19°44 | 26°31 | 0°37 | 13°44 | 6°14 | 1° 1 | 9°40 | 11°28 | 10°10 | 8°23 | 9°51 | M27 |
| T 28 | 2 27 10 | 5° 4'57 | 28°40 | 18°38 | 20°51 | 27°16 | 0°49 | 13°45 | 6°13 | 1° 0 | 9°40 | 11°29 | 10° 7 | 8°29 | 9°58 | T 28 |
| W29 | 2 31 6 | 6° 5'04 | 11♍36 | 18°51 | 21°58 | 28° 1 | 1° 2 | 13°46 | 6°13 | 0°59 | 9°40 | 11°30 | 10° 3 | 8°36 | 10° 4 | W29 |
| T 30 | 2 35 3 | 7° 5'13 | 24°16 | 19°15 | 23° 4 | 28°46 | 1°15 | 13°47 | 6°12 | 0°57 | 9°41 | 11°32 | 10° 0 | 8°43 | 10°10 | T 30 |
| F 31 | 2 38 59 | 8♏ 5'23 | 6♎43 | 19♎48 | 24♐11 | 29♐31 | 1♑28 | 13♒49 | 6♋11 | 0♈56 | 9♌41 | 11°R33 | 9♎57 | 8♐50 | 10♍16 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 3s16 | 7n43 | 3s24 | 15s34 | 3s21 | 19s19 | 1s36 | 22s56 | 1s21 | 18s31 | 0n40 | 17s52 | 1s14 | 23n36 | 0n17 | 0s42 | 1s30 | 24n 9 | 6n27 | 4s36 | 4s34 | 17s 9 | 4n14 | 5s10 |
| T 2 | 3 40 | 3 49 | 2 24 | 15 47 | 3 24 | 19 41 | 1 40 | 23 4 | 1 22 | 18 33 | 0 39 | 17 52 | 1 14 | 23 36 | 0 17 | 0 43 | 1 30 | 24 9 | 6 27 | 4 36 | 4 33 | 17 10 | 4 11 | 5 11 |
| F 3 | 4 3 | 0s11 | 1 18 | 15 58 | 3 26 | 20 3 | 1 43 | 23 11 | 1 22 | 18 36 | 0 39 | 17 53 | 1 14 | 23 36 | 0 17 | 0 43 | 1 30 | 24 9 | 6 27 | 4 36 | 4 32 | 17 10 | 4 8 | 5 11 |
| S 4 | 4 26 | 4 6 | 0 9 | 16 6 | 3 27 | 20 24 | 1 47 | 23 17 | 1 22 | 18 39 | 0 39 | 17 53 | 1 14 | 23 36 | 0 17 | 0 44 | 1 30 | 24 9 | 6 27 | 4 36 | 4 31 | 17 11 | 4 5 | 5 11 |
| S 5 | 4 50 | 7 48 | 0n59 | 16 10 | 3 27 | 20 45 | 1 50 | 23 24 | 1 22 | 18 42 | 0 39 | 17 53 | 1 14 | 23 36 | 0 17 | 0 45 | 1 30 | 24 9 | 6 28 | 4 36 | 4 29 | 17 12 | 4 2 | 5 11 |
| M 6 | 5 13 | 11 6 | 2 4 | 16 12 | 3 26 | 21 5 | 1 53 | 23 30 | 1 22 | 18 45 | 0 39 | 17 54 | 1 14 | 23 36 | 0 17 | 0 45 | 1 30 | 24 9 | 6 28 | 4 36 | 4 28 | 17 12 | 3 59 | 5 11 |
| T 7 | 5 36 | 13 54 | 3 2 | 16 10 | 3 24 | 21 25 | 1 57 | 23 36 | 1 23 | 18 47 | 0 39 | 17 54 | 1 14 | 23 36 | 0 17 | 0 46 | 1 30 | 24 8 | 6 28 | 4 36 | 4 27 | 17 13 | 3 56 | 5 11 |
| W 8 | 5 59 | 16 5 | 3 52 | 16 4 | 3 20 | 21 44 | 2 0 | 23 42 | 1 23 | 18 50 | 0 39 | 17 54 | 1 14 | 23 36 | 0 17 | 0 46 | 1 30 | 24 8 | 6 28 | 4 36 | 4 26 | 17 13 | 3 53 | 5 11 |
| T 9 | 6 22 | 17 33 | 4 31 | 15 54 | 3 15 | 22 2 | 2 4 | 23 48 | 1 23 | 18 53 | 0 38 | 17 54 | 1 14 | 23 36 | 0 17 | 0 47 | 1 30 | 24 8 | 6 28 | 4 36 | 4 24 | 17 14 | 3 50 | 5 12 |
| F 10 | 6 45 | 18 16 | 4 59 | 15 39 | 3 9 | 22 21 | 2 7 | 23 54 | 1 23 | 18 56 | 0 38 | 17 55 | 1 14 | 23 36 | 0 17 | 0 48 | 1 30 | 24 8 | 6 29 | 4 35 | 4 23 | 17 15 | 3 47 | 5 12 |
| S 11 | 7 7 | 18 11 | 5 14 | 15 20 | 3 0 | 22 38 | 2 10 | 23 59 | 1 23 | 18 59 | 0 38 | 17 55 | 1 14 | 23 36 | 0 17 | 0 48 | 1 30 | 24 8 | 6 29 | 4 35 | 4 22 | 17 15 | 3 45 | 5 12 |
| S 12 | 7 30 | 17 16 | 5 16 | 14 57 | 2 50 | 22 55 | 2 13 | 24 4 | 1 23 | 19 1 | 0 38 | 17 55 | 1 14 | 23 36 | 0 17 | 0 49 | 1 30 | 24 8 | 6 29 | 4 35 | 4 21 | 17 16 | 3 42 | 5 12 |
| M13 | 7 53 | 15 34 | 5 4 | 14 29 | 2 39 | 23 12 | 2 16 | 24 9 | 1 24 | 19 4 | 0 38 | 17 55 | 1 14 | 23 36 | 0 17 | 0 50 | 1 30 | 24 8 | 6 29 | 4 35 | 4 19 | 17 17 | 3 39 | 5 12 |
| T 14 | 8 15 | 13 5 | 4 37 | 13 56 | 2 25 | 23 27 | 2 19 | 24 13 | 1 24 | 19 7 | 0 38 | 17 55 | 1 14 | 23 36 | 0 17 | 0 50 | 1 30 | 24 8 | 6 30 | 4 35 | 4 18 | 17 17 | 3 36 | 5 12 |
| W15 | 8 37 | 9 55 | 3 55 | 13 19 | 2 10 | 23 43 | 2 22 | 24 18 | 1 24 | 19 10 | 0 38 | 17 55 | 1 13 | 23 36 | 0 17 | 0 51 | 1 30 | 24 9 | 6 30 | 4 36 | 4 17 | 17 18 | 3 33 | 5 13 |
| T 16 | 9 0 | 6 8 | 3 0 | 12 38 | 1 52 | 23 57 | 2 25 | 24 22 | 1 24 | 19 13 | 0 37 | 17 55 | 1 13 | 23 36 | 0 17 | 0 51 | 1 30 | 24 9 | 6 30 | 4 36 | 4 16 | 17 18 | 3 30 | 5 13 |
| F 17 | 9 22 | 1 55 | 1 53 | 11 55 | 1 34 | 24 11 | 2 28 | 24 26 | 1 24 | 19 16 | 0 37 | 17 55 | 1 13 | 23 36 | 0 17 | 0 52 | 1 30 | 24 9 | 6 30 | 4 36 | 4 14 | 17 19 | 3 28 | 5 13 |
| S 18 | 9 44 | 2n32 | 0 37 | 11 9 | 1 14 | 24 25 | 2 31 | 24 29 | 1 24 | 19 18 | 0 37 | 17 55 | 1 13 | 23 36 | 0 17 | 0 53 | 1 30 | 24 9 | 6 31 | 4 37 | 4 13 | 17 20 | 3 25 | 5 13 |
| S 19 | 10 5 | 6 58 | 0s43 | 10 22 | 0 54 | 24 38 | 2 34 | 24 33 | 1 24 | 19 21 | 0 37 | 17 55 | 1 13 | 23 36 | 0 17 | 0 53 | 1 29 | 24 9 | 6 31 | 4 37 | 4 12 | 17 20 | 3 22 | 5 13 |
| M20 | 10 27 | 11 3 | 2 2 | 9 36 | 0 33 | 24 50 | 2 37 | 24 36 | 1 24 | 19 24 | 0 37 | 17 55 | 1 13 | 23 36 | 0 17 | 0 54 | 1 29 | 24 9 | 6 31 | 4 36 | 4 11 | 17 21 | 3 19 | 5 14 |
| T 21 | 10 49 | 14 28 | 3 13 | 8 52 | 0 13 | 25 1 | 2 39 | 24 39 | 1 24 | 19 27 | 0 37 | 17 55 | 1 13 | 23 37 | 0 17 | 0 54 | 1 29 | 24 9 | 6 31 | 4 36 | 4 9 | 17 21 | 3 17 | 5 14 |
| W22 | 11 10 | 16 54 | 4 11 | 8 10 | 0n 7 | 25 12 | 2 42 | 24 41 | 1 24 | 19 30 | 0 37 | 17 55 | 1 13 | 23 37 | 0 17 | 0 55 | 1 29 | 24 9 | 6 32 | 4 35 | 4 8 | 17 22 | 3 14 | 5 14 |
| T 23 | 11 31 | 18 11 | 4 52 | 7 33 | 0 27 | 25 23 | 2 44 | 24 44 | 1 25 | 19 32 | 0 37 | 17 55 | 1 13 | 23 37 | 0 17 | 0 55 | 1 29 | 24 9 | 6 32 | 4 34 | 4 7 | 17 22 | 3 11 | 5 14 |
| F 24 | 11 52 | 18 13 | 5 13 | 7 0 | 0 45 | 25 32 | 2 47 | 24 46 | 1 25 | 19 35 | 0 36 | 17 54 | 1 13 | 23 37 | 0 17 | 0 56 | 1 29 | 24 9 | 6 32 | 4 33 | 4 6 | 17 23 | 3 9 | 5 15 |
| S 25 | 12 13 | 17 6 | 5 13 | 6 32 | 1 1 | 25 41 | 2 49 | 24 47 | 1 25 | 19 38 | 0 36 | 17 54 | 1 13 | 23 37 | 0 17 | 0 56 | 1 29 | 24 9 | 6 32 | 4 32 | 4 4 | 17 24 | 3 6 | 5 15 |
| S 26 | 12 34 | 14 58 | 4 56 | 6 11 | 1 16 | 25 50 | 2 51 | 24 49 | 1 25 | 19 41 | 0 36 | 17 54 | 1 13 | 23 37 | 0 17 | 0 57 | 1 29 | 24 9 | 6 33 | 4 32 | 4 3 | 17 24 | 3 3 | 5 15 |
| M27 | 12 54 | 12 4 | 4 22 | 5 55 | 1 29 | 25 57 | 2 53 | 24 50 | 1 25 | 19 43 | 0 36 | 17 54 | 1 13 | 23 37 | 0 17 | 0 58 | 1 29 | 24 10 | 6 33 | 4 32 | 4 2 | 17 25 | 3 1 | 5 16 |
| T 28 | 13 14 | 8 36 | 3 35 | 5 46 | 1 41 | 26 4 | 2 55 | 24 51 | 1 25 | 19 46 | 0 36 | 17 53 | 1 13 | 23 37 | 0 17 | 0 58 | 1 29 | 24 10 | 6 33 | 4 33 | 4 1 | 17 25 | 2 58 | 5 16 |
| W29 | 13 34 | 4 48 | 2 37 | 5 42 | 1 50 | 26 11 | 2 57 | 24 52 | 1 25 | 19 49 | 0 36 | 17 53 | 1 13 | 23 37 | 0 17 | 0 59 | 1 29 | 24 10 | 6 33 | 4 33 | 3 59 | 17 26 | 2 56 | 5 16 |
| T 30 | 13 54 | 0 51 | 1 34 | 5 43 | 1 58 | 26 16 | 2 59 | 24 53 | 1 25 | 19 52 | 0 36 | 17 52 | 1 13 | 23 37 | 0 17 | 0 59 | 1 29 | 24 10 | 6 34 | 4 34 | 3 58 | 17 26 | 2 53 | 5 16 |
| F 31 | 14s14 | 3s 5 | 0s27 | 5s50 | 2n 4 | 26s21 | 3s 0 | 24s53 | 1s25 | 19s54 | 0n36 | 17s52 | 1s13 | 23n37 | 0n17 | 0s59 | 1s29 | 24n10 | 6n34 | 4s34 | 3s57 | 17s27 | 2n51 | 5s17 |

Julian Day Number = 2341515.5, Delta T = 14.73 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'06, Lahiri = 19°39'07Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## NOVEMBER 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 42 56 | 9♏ 5'36 | 18♎59 | 20♎29 | 25♐17 | 0♑16 | 1♐41 | 13♒50 | 6°R10 | 0°R55 | 9♌41 | 11°R33 | 9♎54 | 8♐56 | 10♍22 | S 1 |
| S 2 | 2 46 52 | 10° 5'51 | 1♏ 7 | 21°19 | 26°23 | 1° 1 | 1°54 | 13°52 | 6♋ 9 | 0♈54 | 9°42 | 11♎31 | 9°51 | 9° 3 | 10°28 | S 2 |
| M 3 | 2 50 49 | 11° 6'07 | 13° 8 | 22°15 | 27°28 | 1°46 | 2° 7 | 13°53 | 6° 7 | 0°53 | 9°42 | 11°28 | 9°48 | 9°10 | 10°33 | M 3 |
| T 4 | 2 54 46 | 12° 6'26 | 25° 3 | 23°17 | 28°34 | 2°32 | 2°20 | 13°55 | 6° 6 | 0°51 | 9°42 | 11°23 | 9°44 | 9°16 | 10°39 | T 4 |
| W 5 | 2 58 42 | 13° 6'46 | 6♐55 | 24°24 | 29°39 | 3°17 | 2°33 | 13°57 | 6° 5 | 0°50 | 9°42 | 11°18 | 9°41 | 9°23 | 10°45 | W 5 |
| T 6 | 3 2 39 | 14° 7'07 | 18°45 | 25°36 | 0♑44 | 4° 2 | 2°46 | 13°59 | 6° 4 | 0°49 | 9°42 | 11°11 | 9°38 | 9°30 | 10°50 | T 6 |
| F 7 | 3 6 35 | 15° 7'30 | 0♑36 | 26°52 | 1°49 | 4°48 | 2°59 | 14° 1 | 6° 2 | 0°48 | 9°42 | 11° 5 | 9°35 | 9°37 | 10°56 | F 7 |
| S 8 | 3 10 32 | 16° 7'55 | 12°30 | 28°11 | 2°54 | 5°33 | 3°12 | 14° 3 | 6° 1 | 0°47 | 9°42 | 11° 0 | 9°32 | 9°43 | 11° 1 | S 8 |
| S 9 | 3 14 28 | 17° 8'21 | 24°32 | 29°33 | 3°58 | 6°19 | 3°25 | 14° 5 | 6° 0 | 0°46 | 9°42 | 10°56 | 9°28 | 9°50 | 11° 7 | S 9 |
| M10 | 3 18 25 | 18° 8'49 | 6♒43 | 0♏57 | 5° 3 | 7° 4 | 3°38 | 14° 7 | 5°58 | 0°45 | 9°R42 | 10°53 | 9°25 | 9°57 | 11°12 | M10 |
| T 11 | 3 22 21 | 19° 9'18 | 19°10 | 2°23 | 6° 6 | 7°50 | 3°52 | 14°10 | 5°57 | 0°44 | 9°42 | 10°D53 | 9°22 | 10° 3 | 11°17 | T 11 |
| W12 | 3 26 18 | 20° 9'48 | 1♓56 | 3°51 | 7°10 | 8°36 | 4° 5 | 14°12 | 5°55 | 0°43 | 9°42 | 10°53 | 9°19 | 10°10 | 11°22 | W12 |
| T 13 | 3 30 15 | 21°10'19 | 15° 6 | 5°20 | 8°13 | 9°22 | 4°18 | 14°15 | 5°54 | 0°42 | 9°42 | 10°55 | 9°16 | 10°17 | 11°27 | T 13 |
| F 14 | 3 34 11 | 22°10'52 | 28°43 | 6°50 | 9°16 | 10° 7 | 4°32 | 14°17 | 5°52 | 0°41 | 9°42 | 10°56 | 9°13 | 10°23 | 11°32 | F 14 |
| S 15 | 3 38 8 | 23°11'26 | 12♈48 | 8°21 | 10°19 | 10°53 | 4°45 | 14°20 | 5°50 | 0°40 | 9°42 | 10°R57 | 9° 9 | 10°30 | 11°36 | S 15 |
| S 16 | 3 42 4 | 24°12'01 | 27°21 | 9°53 | 11°21 | 11°39 | 4°58 | 14°23 | 5°49 | 0°39 | 9°42 | 10°55 | 9° 6 | 10°37 | 11°41 | S 16 |
| M17 | 3 46 1 | 25°12'38 | 12♉17 | 11°26 | 12°24 | 12°25 | 5°12 | 14°26 | 5°47 | 0°39 | 9°42 | 10°52 | 9° 3 | 10°44 | 11°46 | M17 |
| T 18 | 3 49 57 | 26°13'16 | 27°29 | 12°59 | 13°25 | 13°11 | 5°25 | 14°29 | 5°45 | 0°38 | 9°42 | 10°47 | 9° 0 | 10°50 | 11°50 | T 18 |
| W19 | 3 53 54 | 27°13'55 | 12♊47 | 14°32 | 14°27 | 13°57 | 5°38 | 14°32 | 5°43 | 0°37 | 9°41 | 10°40 | 8°57 | 10°57 | 11°55 | W19 |
| T 20 | 3 57 50 | 28°14'36 | 28° 0 | 16° 5 | 15°28 | 14°43 | 5°52 | 14°35 | 5°41 | 0°36 | 9°41 | 10°33 | 8°54 | 11° 4 | 11°59 | T 20 |
| F 21 | 4 1 47 | 29°15'18 | 12♋58 | 17°39 | 16°28 | 15°29 | 6° 5 | 14°39 | 5°39 | 0°36 | 9°41 | 10°26 | 8°50 | 11°10 | 12° 3 | F 21 |
| S 22 | 4 5 44 | 0♐16'02 | 27°32 | 19°13 | 17°28 | 16°15 | 6°19 | 14°42 | 5°37 | 0°35 | 9°40 | 10°20 | 8°47 | 11°17 | 12° 7 | S 22 |
| S 23 | 4 9 40 | 1°16'48 | 11♌39 | 20°47 | 18°28 | 17° 2 | 6°32 | 14°46 | 5°36 | 0°34 | 9°40 | 10°16 | 8°44 | 11°24 | 12°11 | S 23 |
| M24 | 4 13 37 | 2°17'35 | 25°18 | 22°21 | 19°28 | 17°48 | 6°46 | 14°49 | 5°34 | 0°34 | 9°40 | 10°14 | 8°41 | 11°31 | 12°15 | M24 |
| T 25 | 4 17 33 | 3°18'24 | 8♍30 | 23°55 | 20°27 | 18°34 | 6°59 | 14°53 | 5°31 | 0°33 | 9°39 | 10°D14 | 8°38 | 11°37 | 12°19 | T 25 |
| W26 | 4 21 30 | 4°19'14 | 21°19 | 25°29 | 21°25 | 19°21 | 7°13 | 14°57 | 5°29 | 0°33 | 9°39 | 10°15 | 8°34 | 11°44 | 12°22 | W26 |
| T 27 | 4 25 26 | 5°20'05 | 3♎49 | 27° 3 | 22°23 | 20° 7 | 7°26 | 15° 1 | 5°27 | 0°32 | 9°39 | 10°R15 | 8°31 | 11°51 | 12°26 | T 27 |
| F 28 | 4 29 23 | 6°20'58 | 16° 4 | 28°37 | 23°21 | 20°53 | 7°40 | 15° 5 | 5°25 | 0°32 | 9°38 | 10°15 | 8°28 | 11°57 | 12°29 | F 28 |
| S 29 | 4 33 19 | 7°21'52 | 28° 9 | 0♐11 | 24°18 | 21°40 | 7°53 | 15° 9 | 5°23 | 0°31 | 9°38 | 10°14 | 8°25 | 12° 4 | 12°33 | S 29 |
| S 30 | 4 37 16 | 8♐22'48 | 10♏ 6 | 1♐45 | 25♑14 | 22♑26 | 8♐ 7 | 15♒13 | 5♋21 | 0°31 | 9♌37 | 10♎ 9 | 8♎22 | 12♐11 | 12♍36 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s33 | 6s49 | 0n41 | 6s 1 | 2n 9 | 26s25 | 3s 2 | 24s53 | 1s25 | 19s57 | 0n35 | 17s52 | 1s13 | 23n37 | 0n17 | 1s 0 | 1s29 | 24n10 | 6n34 | 4s34 | 3s56 | 17s28 | 2n48 | 5s17 |
| S 2 | 14 52 | 10 14 | 1 45 | 6 17 | 2 12 | 26 29 | 3 4 | 24 53 | 1 25 | 20 0 | 0 35 | 17 51 | 1 13 | 23 37 | 0 17 | 1 0 | 1 29 | 24 10 | 6 34 | 4 34 | 3 54 | 17 28 | 2 46 | 5 17 |
| M 3 | 15 11 | 13 11 | 2 44 | 6 36 | 2 14 | 26 32 | 3 5 | 24 52 | 1 25 | 20 2 | 0 35 | 17 51 | 1 13 | 23 37 | 0 17 | 1 1 | 1 29 | 24 11 | 6 35 | 4 33 | 3 53 | 17 29 | 2 43 | 5 18 |
| T 4 | 15 30 | 15 34 | 3 36 | 6 58 | 2 15 | 26 34 | 3 6 | 24 52 | 1 24 | 20 5 | 0 35 | 17 50 | 1 12 | 23 37 | 0 17 | 1 1 | 1 29 | 24 11 | 6 35 | 4 31 | 3 52 | 17 29 | 2 41 | 5 18 |
| W 5 | 15 48 | 17 16 | 4 17 | 7 23 | 2 15 | 26 36 | 3 7 | 24 50 | 1 24 | 20 8 | 0 35 | 17 49 | 1 12 | 23 37 | 0 17 | 1 2 | 1 29 | 24 11 | 6 35 | 4 28 | 3 51 | 17 30 | 2 38 | 5 18 |
| T 6 | 16 6 | 18 13 | 4 48 | 7 50 | 2 14 | 26 37 | 3 8 | 24 49 | 1 24 | 20 10 | 0 35 | 17 49 | 1 12 | 23 38 | 0 17 | 1 2 | 1 29 | 24 11 | 6 35 | 4 26 | 3 49 | 17 30 | 2 36 | 5 19 |
| F 7 | 16 24 | 18 22 | 5 6 | 8 19 | 2 12 | 26 37 | 3 9 | 24 48 | 1 24 | 20 13 | 0 35 | 17 48 | 1 12 | 23 38 | 0 17 | 1 3 | 1 29 | 24 11 | 6 36 | 4 24 | 3 48 | 17 31 | 2 33 | 5 19 |
| S 8 | 16 41 | 17 43 | 5 11 | 8 50 | 2 9 | 26 36 | 3 10 | 24 46 | 1 24 | 20 16 | 0 35 | 17 47 | 1 12 | 23 38 | 0 17 | 1 3 | 1 29 | 24 12 | 6 36 | 4 22 | 3 47 | 17 31 | 2 31 | 5 19 |
| S 9 | 16 59 | 16 17 | 5 3 | 9 22 | 2 6 | 26 35 | 3 11 | 24 43 | 1 24 | 20 18 | 0 35 | 17 47 | 1 12 | 23 38 | 0 17 | 1 3 | 1 29 | 24 12 | 6 36 | 4 20 | 3 46 | 17 32 | 2 29 | 5 20 |
| M10 | 17 16 | 14 6 | 4 40 | 9 55 | 2 2 | 26 34 | 3 11 | 24 41 | 1 24 | 20 21 | 0 34 | 17 46 | 1 12 | 23 38 | 0 17 | 1 4 | 1 29 | 24 12 | 6 36 | 4 19 | 3 44 | 17 32 | 2 27 | 5 20 |
| T 11 | 17 32 | 11 13 | 4 5 | 10 29 | 1 58 | 26 31 | 3 11 | 24 38 | 1 24 | 20 23 | 0 34 | 17 45 | 1 12 | 23 38 | 0 17 | 1 4 | 1 29 | 24 12 | 6 37 | 4 19 | 3 43 | 17 33 | 2 24 | 5 20 |
| W12 | 17 49 | 7 45 | 3 16 | 11 3 | 1 53 | 26 28 | 3 12 | 24 35 | 1 24 | 20 26 | 0 34 | 17 45 | 1 12 | 23 38 | 0 18 | 1 4 | 1 29 | 24 13 | 6 37 | 4 19 | 3 42 | 17 33 | 2 22 | 5 21 |
| T 13 | 18 5 | 3 47 | 2 16 | 11 38 | 1 47 | 26 24 | 3 12 | 24 32 | 1 24 | 20 29 | 0 34 | 17 44 | 1 12 | 23 38 | 0 18 | 1 5 | 1 29 | 24 13 | 6 37 | 4 19 | 3 41 | 17 34 | 2 20 | 5 21 |
| F 14 | 18 21 | 0n30 | 1 6 | 12 13 | 1 42 | 26 20 | 3 12 | 24 29 | 1 23 | 20 31 | 0 34 | 17 43 | 1 12 | 23 38 | 0 18 | 1 5 | 1 29 | 24 13 | 6 37 | 4 20 | 3 39 | 17 35 | 2 18 | 5 21 |
| S 15 | 18 36 | 4 55 | 0s10 | 12 48 | 1 36 | 26 15 | 3 11 | 24 25 | 1 23 | 20 34 | 0 34 | 17 42 | 1 12 | 23 38 | 0 18 | 1 5 | 1 29 | 24 13 | 6 38 | 4 20 | 3 38 | 17 35 | 2 16 | 5 22 |
| S 16 | 18 51 | 9 11 | 1 28 | 13 23 | 1 30 | 26 10 | 3 11 | 24 21 | 1 23 | 20 36 | 0 34 | 17 41 | 1 12 | 23 38 | 0 18 | 1 6 | 1 29 | 24 14 | 6 38 | 4 20 | 3 37 | 17 36 | 2 13 | 5 22 |
| M17 | 19 6 | 12 59 | 2 41 | 13 58 | 1 23 | 26 3 | 3 10 | 24 16 | 1 23 | 20 39 | 0 34 | 17 40 | 1 12 | 23 39 | 0 18 | 1 6 | 1 29 | 24 14 | 6 38 | 4 19 | 3 36 | 17 36 | 2 11 | 5 22 |
| T 18 | 19 20 | 15 59 | 3 45 | 14 32 | 1 17 | 25 57 | 3 10 | 24 12 | 1 23 | 20 41 | 0 34 | 17 39 | 1 12 | 23 39 | 0 18 | 1 6 | 1 29 | 24 14 | 6 38 | 4 16 | 3 34 | 17 37 | 2 9 | 5 23 |
| W19 | 19 34 | 17 52 | 4 32 | 15 6 | 1 10 | 25 49 | 3 9 | 24 7 | 1 23 | 20 44 | 0 34 | 17 38 | 1 12 | 23 39 | 0 18 | 1 7 | 1 29 | 24 15 | 6 39 | 4 14 | 3 33 | 17 37 | 2 7 | 5 23 |
| T 20 | 19 48 | 18 27 | 5 0 | 15 40 | 1 3 | 25 41 | 3 8 | 24 2 | 1 22 | 20 46 | 0 34 | 17 37 | 1 12 | 23 39 | 0 18 | 1 7 | 1 29 | 24 15 | 6 39 | 4 11 | 3 32 | 17 38 | 2 5 | 5 24 |
| F 21 | 20 1 | 17 45 | 5 7 | 16 13 | 0 57 | 25 33 | 3 7 | 23 56 | 1 22 | 20 48 | 0 33 | 17 36 | 1 12 | 23 39 | 0 18 | 1 7 | 1 29 | 24 15 | 6 39 | 4 8 | 3 31 | 17 38 | 2 3 | 5 24 |
| S 22 | 20 14 | 15 53 | 4 54 | 16 46 | 0 50 | 25 23 | 3 5 | 23 51 | 1 22 | 20 51 | 0 33 | 17 35 | 1 12 | 23 39 | 0 18 | 1 7 | 1 29 | 24 16 | 6 39 | 4 6 | 3 29 | 17 39 | 2 2 | 5 24 |
| S 23 | 20 27 | 13 6 | 4 23 | 17 17 | 0 43 | 25 14 | 3 4 | 23 45 | 1 22 | 20 53 | 0 33 | 17 34 | 1 12 | 23 39 | 0 18 | 1 7 | 1 28 | 24 16 | 6 40 | 4 4 | 3 28 | 17 39 | 2 0 | 5 25 |
| M24 | 20 39 | 9 41 | 3 38 | 17 49 | 0 36 | 25 4 | 3 2 | 23 38 | 1 22 | 20 56 | 0 33 | 17 33 | 1 11 | 23 39 | 0 18 | 1 8 | 1 28 | 24 16 | 6 40 | 4 3 | 3 27 | 17 40 | 1 58 | 5 25 |
| T 25 | 20 51 | 5 53 | 2 42 | 18 19 | 0 29 | 24 53 | 3 0 | 23 32 | 1 21 | 20 58 | 0 33 | 17 32 | 1 11 | 23 39 | 0 18 | 1 8 | 1 28 | 24 17 | 6 40 | 4 3 | 3 26 | 17 40 | 1 56 | 5 26 |
| W26 | 21 2 | 1 55 | 1 40 | 18 49 | 0 22 | 24 42 | 2 58 | 23 25 | 1 21 | 21 0 | 0 33 | 17 31 | 1 11 | 23 39 | 0 18 | 1 8 | 1 28 | 24 17 | 6 40 | 4 4 | 3 24 | 17 40 | 1 54 | 5 26 |
| T 27 | 21 13 | 2s 3 | 0 35 | 19 17 | 0 15 | 24 30 | 2 55 | 23 18 | 1 21 | 21 3 | 0 33 | 17 30 | 1 11 | 23 40 | 0 18 | 1 8 | 1 28 | 24 17 | 6 41 | 4 4 | 3 23 | 17 41 | 1 52 | 5 26 |
| F 28 | 21 24 | 5 51 | 0n31 | 19 45 | 0 8 | 24 18 | 2 53 | 23 11 | 1 21 | 21 5 | 0 33 | 17 28 | 1 11 | 23 40 | 0 18 | 1 8 | 1 28 | 24 18 | 6 41 | 4 4 | 3 22 | 17 41 | 1 51 | 5 27 |
| S 29 | 21 34 | 9 22 | 1 34 | 20 12 | 0 1 | 24 5 | 2 50 | 23 3 | 1 20 | 21 7 | 0 33 | 17 27 | 1 11 | 23 40 | 0 18 | 1 8 | 1 28 | 24 18 | 6 41 | 4 3 | 3 21 | 17 42 | 1 49 | 5 27 |
| S 30 | 21s44 | 12s27 | 2n33 | 20s38 | 0s 6 | 23s52 | 2s47 | 22s55 | 1s20 | 21s 9 | 0n33 | 17s26 | 1s11 | 23n40 | 0n18 | 1s 9 | 1s28 | 24n18 | 6n41 | 4s 2 | 3s19 | 17s42 | 1n48 | 5s28 |

Julian Day Number = 2341546.5, Delta T = 14.70 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'10, Lahiri = 19°39'11Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1698
# geocentric

## DECEMBER 1698 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 4 41 13 | 9♐23'45 | 22♏ 0 | 3♐19 | 26♑10 | 23♑13 | 8♐20 | 15♒17 | 5°R18 | 0°R31 | 9°R36 | 10°R 2 | 8♎19 | 12♐17 | 12♍39 | M 1 |
| T 2 | 4 45 9 | 10°24'43 | 3♐51 | 4°53 | 27° 6 | 23°59 | 8°34 | 15°21 | 5♋16 | 0♈30 | 9♌36 | 9♎52 | 8°15 | 12°24 | 12°42 | T 2 |
| W 3 | 4 49 6 | 11°25'42 | 15°42 | 6°27 | 28° 0 | 24°46 | 8°47 | 15°26 | 5°14 | 0°30 | 9°35 | 9°41 | 8°12 | 12°31 | 12°45 | W 3 |
| T 4 | 4 53 2 | 12°26'41 | 27°34 | 8° 1 | 28°54 | 25°33 | 9° 1 | 15°30 | 5°12 | 0°30 | 9°35 | 9°28 | 8° 9 | 12°38 | 12°48 | T 4 |
| F 5 | 4 56 59 | 13°27'42 | 9♑29 | 9°35 | 29°48 | 26°19 | 9°14 | 15°34 | 5° 9 | 0°29 | 9°34 | 9°15 | 8° 6 | 12°44 | 12°51 | F 5 |
| S 6 | 5 0 55 | 14°28'44 | 21°27 | 11° 9 | 0♒41 | 27° 6 | 9°28 | 15°39 | 5° 7 | 0°29 | 9°33 | 9° 3 | 8° 3 | 12°51 | 12°53 | S 6 |
| S 7 | 5 4 52 | 15°29'46 | 3♒32 | 12°43 | 1°33 | 27°53 | 9°41 | 15°44 | 5° 5 | 0°29 | 9°33 | 8°53 | 8° 0 | 12°58 | 12°56 | S 7 |
| M 8 | 5 8 48 | 16°30'48 | 15°46 | 14°17 | 2°24 | 28°40 | 9°55 | 15°48 | 5° 2 | 0°29 | 9°32 | 8°46 | 7°56 | 13° 4 | 12°58 | M 8 |
| T 9 | 5 12 45 | 17°31'52 | 28°11 | 15°52 | 3°15 | 29°26 | 10° 8 | 15°53 | 5° 0 | 0°29 | 9°31 | 8°42 | 7°53 | 13°11 | 13° 0 | T 9 |
| W10 | 5 16 42 | 18°32'55 | 10♓53 | 17°26 | 4° 5 | 0♒13 | 10°22 | 15°58 | 4°57 | 0°29 | 9°30 | 8°40 | 7°50 | 13°18 | 13° 2 | W10 |
| T 11 | 5 20 38 | 19°33'59 | 23°54 | 19° 1 | 4°54 | 1° 0 | 10°35 | 16° 3 | 4°55 | 0°D29 | 9°30 | 8°D40 | 7°47 | 13°25 | 13° 4 | T 11 |
| F 12 | 5 24 35 | 20°35'04 | 7♈20 | 20°35 | 5°42 | 1°47 | 10°49 | 16° 8 | 4°52 | 0°29 | 9°29 | 8°R40 | 7°44 | 13°31 | 13° 6 | F 12 |
| S 13 | 5 28 31 | 21°36'09 | 21°12 | 22°10 | 6°30 | 2°34 | 11° 2 | 16°13 | 4°50 | 0°29 | 9°28 | 8°40 | 7°40 | 13°38 | 13° 8 | S 13 |
| S 14 | 5 32 28 | 22°37'14 | 5♉32 | 23°45 | 7°16 | 3°21 | 11°15 | 16°18 | 4°47 | 0°29 | 9°27 | 8°38 | 7°37 | 13°45 | 13°10 | S 14 |
| M15 | 5 36 24 | 23°38'19 | 20°18 | 25°20 | 8° 1 | 4° 7 | 11°29 | 16°24 | 4°45 | 0°29 | 9°26 | 8°32 | 7°34 | 13°51 | 13°11 | M15 |
| T 16 | 5 40 21 | 24°39'25 | 5♊26 | 26°55 | 8°45 | 4°54 | 11°42 | 16°29 | 4°42 | 0°29 | 9°25 | 8°24 | 7°31 | 13°58 | 13°13 | T 16 |
| W17 | 5 44 17 | 25°40'31 | 20°45 | 28°30 | 9°29 | 5°41 | 11°56 | 16°34 | 4°40 | 0°29 | 9°24 | 8°14 | 7°28 | 14° 5 | 13°14 | W17 |
| T 18 | 5 48 14 | 26°41'38 | 6♋ 5 | 0♑ 6 | 10°11 | 6°28 | 12° 9 | 16°40 | 4°37 | 0°29 | 9°23 | 8° 3 | 7°25 | 14°12 | 13°15 | T 18 |
| F 19 | 5 52 11 | 27°42'45 | 21°14 | 1°42 | 10°52 | 7°15 | 12°22 | 16°45 | 4°35 | 0°30 | 9°22 | 7°52 | 7°21 | 14°18 | 13°16 | F 19 |
| S 20 | 5 56 7 | 28°43'53 | 6♌ 2 | 3°18 | 11°32 | 8° 2 | 12°36 | 16°51 | 4°32 | 0°30 | 9°21 | 7°42 | 7°18 | 14°25 | 13°17 | S 20 |
| S 21 | 6 0 4 | 29°45'01 | 20°22 | 4°54 | 12°10 | 8°49 | 12°49 | 16°56 | 4°29 | 0°30 | 9°20 | 7°34 | 7°15 | 14°32 | 13°18 | S 21 |
| M22 | 6 4 0 | 0♑46'10 | 4♍11 | 6°31 | 12°47 | 9°36 | 13° 2 | 17° 2 | 4°27 | 0°31 | 9°19 | 7°30 | 7°12 | 14°38 | 13°19 | M22 |
| T 23 | 6 7 57 | 1°47'19 | 17°31 | 8° 7 | 13°23 | 10°23 | 13°15 | 17° 8 | 4°24 | 0°31 | 9°18 | 7°28 | 7° 9 | 14°45 | 13°19 | T 23 |
| W24 | 6 11 53 | 2°48'29 | 0♎23 | 9°44 | 13°58 | 11°10 | 13°28 | 17°14 | 4°22 | 0°32 | 9°17 | 7°27 | 7° 6 | 14°52 | 13°20 | W24 |
| T 25 | 6 15 50 | 3°49'39 | 12°53 | 11°22 | 14°31 | 11°57 | 13°42 | 17°20 | 4°19 | 0°32 | 9°16 | 7°27 | 7° 2 | 14°59 | 13°20 | T 25 |
| F 26 | 6 19 46 | 4°50'49 | 25° 6 | 12°59 | 15° 3 | 12°44 | 13°55 | 17°25 | 4°16 | 0°32 | 9°15 | 7°26 | 6°59 | 15° 5 | 13°20 | F 26 |
| S 27 | 6 23 43 | 5°52'00 | 7♏ 6 | 14°36 | 15°33 | 13°31 | 14° 8 | 17°31 | 4°14 | 0°33 | 9°14 | 7°23 | 6°56 | 15°12 | 13°R20 | S 27 |
| S 28 | 6 27 40 | 6°53'11 | 18°59 | 16°14 | 16° 1 | 14°18 | 14°21 | 17°37 | 4°11 | 0°34 | 9°13 | 7°18 | 6°53 | 15°19 | 13°20 | S 28 |
| M29 | 6 31 36 | 7°54'23 | 0♐49 | 17°52 | 16°28 | 15° 6 | 14°34 | 17°44 | 4° 9 | 0°34 | 9°12 | 7°10 | 6°50 | 15°25 | 13°20 | M29 |
| T 30 | 6 35 33 | 8°55'35 | 12°39 | 19°30 | 16°53 | 15°53 | 14°47 | 17°50 | 4° 6 | 0°35 | 9°10 | 6°58 | 6°46 | 15°32 | 13°20 | T 30 |
| W31 | 6 39 29 | 9♑56'46 | 24♐31 | 21♑ 8 | 17♒16 | 16♒40 | 15♐ 0 | 17♒56 | 4♋ 4 | 0♈35 | 9♌ 9 | 6♎44 | 6♎43 | 15♐39 | 13♍20 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 21s54 | 15s 1 | 3n24 | 21s 3 | 0s13 | 23s38 | 2s44 | 22s47 | 1s20 | 21s12 | 0n33 | 17s25 | 1s11 | 23n40 | 0n18 | 1s 9 | 1s28 | 24n19 | 6n42 | 3s59 | 3s18 | 17s43 | 1n46 | 5s28 |
| T 2 | 22 3 | 16 56 | 4 6 | 21 28 | 0 19 | 23 24 | 2 41 | 22 39 | 1 20 | 21 14 | 0 33 | 17 23 | 1 11 | 23 40 | 0 18 | 1 9 | 1 28 | 24 19 | 6 42 | 3 55 | 3 17 | 17 43 | 1 44 | 5 29 |
| W 3 | 22 11 | 18 7 | 4 37 | 21 51 | 0 26 | 23 9 | 2 37 | 22 30 | 1 19 | 21 16 | 0 32 | 17 22 | 1 11 | 23 40 | 0 18 | 1 9 | 1 28 | 24 20 | 6 42 | 3 50 | 3 16 | 17 44 | 1 43 | 5 29 |
| T 4 | 22 19 | 18 31 | 4 56 | 22 13 | 0 32 | 22 54 | 2 33 | 22 22 | 1 19 | 21 18 | 0 32 | 17 21 | 1 11 | 23 40 | 0 18 | 1 9 | 1 28 | 24 20 | 6 42 | 3 45 | 3 14 | 17 44 | 1 41 | 5 29 |
| F 5 | 22 27 | 18 7 | 5 2 | 22 34 | 0 39 | 22 39 | 2 29 | 22 12 | 1 19 | 21 20 | 0 32 | 17 19 | 1 11 | 23 40 | 0 18 | 1 9 | 1 28 | 24 20 | 6 43 | 3 40 | 3 13 | 17 45 | 1 40 | 5 30 |
| S 6 | 22 34 | 16 54 | 4 56 | 22 53 | 0 45 | 22 24 | 2 25 | 22 3 | 1 18 | 21 22 | 0 32 | 17 18 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 21 | 6 43 | 3 36 | 3 12 | 17 45 | 1 39 | 5 30 |
| S 7 | 22 41 | 14 56 | 4 35 | 23 12 | 0 51 | 22 8 | 2 20 | 21 54 | 1 18 | 21 24 | 0 32 | 17 16 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 21 | 6 43 | 3 32 | 3 11 | 17 46 | 1 37 | 5 31 |
| M 8 | 22 47 | 12 17 | 4 2 | 23 30 | 0 57 | 21 51 | 2 16 | 21 44 | 1 18 | 21 27 | 0 32 | 17 15 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 22 | 6 43 | 3 29 | 3 9 | 17 46 | 1 36 | 5 31 |
| T 9 | 22 53 | 9 2 | 3 17 | 23 46 | 1 3 | 21 35 | 2 11 | 21 34 | 1 17 | 21 29 | 0 32 | 17 14 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 22 | 6 43 | 3 27 | 3 8 | 17 46 | 1 35 | 5 32 |
| W10 | 22 59 | 5 19 | 2 22 | 24 1 | 1 8 | 21 18 | 2 6 | 21 23 | 1 17 | 21 31 | 0 32 | 17 12 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 23 | 6 44 | 3 27 | 3 7 | 17 47 | 1 34 | 5 32 |
| T 11 | 23 4 | 1 14 | 1 18 | 24 15 | 1 14 | 21 1 | 2 0 | 21 13 | 1 17 | 21 33 | 0 32 | 17 11 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 23 | 6 44 | 3 27 | 3 5 | 17 47 | 1 32 | 5 32 |
| F 12 | 23 8 | 3n 1 | 0 7 | 24 27 | 1 19 | 20 43 | 1 54 | 21 2 | 1 16 | 21 35 | 0 32 | 17 9 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 23 | 6 44 | 3 27 | 3 4 | 17 48 | 1 31 | 5 33 |
| S 13 | 23 13 | 7 16 | 1s 6 | 24 39 | 1 24 | 20 26 | 1 48 | 20 51 | 1 16 | 21 36 | 0 32 | 17 7 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 24 | 6 44 | 3 26 | 3 3 | 17 48 | 1 30 | 5 33 |
| S 14 | 23 16 | 11 14 | 2 17 | 24 49 | 1 29 | 20 8 | 1 42 | 20 40 | 1 16 | 21 38 | 0 32 | 17 6 | 1 11 | 23 41 | 0 18 | 1 9 | 1 28 | 24 24 | 6 45 | 3 25 | 3 2 | 17 49 | 1 29 | 5 34 |
| M15 | 23 19 | 14 37 | 3 21 | 24 57 | 1 34 | 19 50 | 1 36 | 20 28 | 1 15 | 21 40 | 0 32 | 17 4 | 1 11 | 23 42 | 0 18 | 1 9 | 1 28 | 24 25 | 6 45 | 3 23 | 3 0 | 17 49 | 1 28 | 5 34 |
| T 16 | 23 22 | 17 5 | 4 13 | 25 5 | 1 38 | 19 31 | 1 29 | 20 17 | 1 15 | 21 42 | 0 32 | 17 3 | 1 11 | 23 42 | 0 18 | 1 9 | 1 28 | 24 25 | 6 45 | 3 20 | 2 59 | 17 50 | 1 27 | 5 35 |
| W17 | 23 24 | 18 23 | 4 47 | 25 10 | 1 42 | 19 13 | 1 22 | 20 5 | 1 15 | 21 44 | 0 31 | 17 1 | 1 11 | 23 42 | 0 18 | 1 9 | 1 27 | 24 26 | 6 45 | 3 16 | 2 58 | 17 50 | 1 26 | 5 35 |
| T 18 | 23 26 | 18 20 | 5 1 | 25 15 | 1 46 | 18 55 | 1 14 | 19 53 | 1 14 | 21 46 | 0 31 | 16 59 | 1 11 | 23 42 | 0 18 | 1 8 | 1 27 | 24 26 | 6 45 | 3 12 | 2 57 | 17 50 | 1 25 | 5 36 |
| F 19 | 23 27 | 16 59 | 4 53 | 25 18 | 1 50 | 18 36 | 1 7 | 19 41 | 1 14 | 21 48 | 0 31 | 16 58 | 1 11 | 23 42 | 0 18 | 1 8 | 1 27 | 24 27 | 6 46 | 3 7 | 2 55 | 17 51 | 1 25 | 5 36 |
| S 20 | 23 28 | 14 30 | 4 25 | 25 20 | 1 53 | 18 17 | 0 59 | 19 28 | 1 13 | 21 49 | 0 31 | 16 56 | 1 11 | 23 42 | 0 18 | 1 8 | 1 27 | 24 27 | 6 46 | 3 3 | 2 54 | 17 51 | 1 24 | 5 36 |
| S 21 | 23 29 | 11 13 | 3 42 | 25 20 | 1 57 | 17 59 | 0 50 | 19 15 | 1 13 | 21 51 | 0 31 | 16 54 | 1 11 | 23 42 | 0 18 | 1 8 | 1 27 | 24 27 | 6 46 | 3 1 | 2 53 | 17 52 | 1 23 | 5 37 |
| M22 | 23 28 | 7 24 | 2 46 | 25 18 | 1 59 | 17 40 | 0 42 | 19 2 | 1 13 | 21 53 | 0 31 | 16 52 | 1 11 | 23 42 | 0 18 | 1 8 | 1 27 | 24 28 | 6 46 | 2 59 | 2 52 | 17 52 | 1 23 | 5 37 |
| T 23 | 23 28 | 3 21 | 1 43 | 25 15 | 2 2 | 17 21 | 0 33 | 18 49 | 1 12 | 21 55 | 0 31 | 16 51 | 1 11 | 23 42 | 0 18 | 1 8 | 1 27 | 24 28 | 6 46 | 2 58 | 2 50 | 17 52 | 1 22 | 5 38 |
| W24 | 23 27 | 0s43 | 0 37 | 25 11 | 2 4 | 17 2 | 0 24 | 18 36 | 1 12 | 21 56 | 0 31 | 16 49 | 1 11 | 23 42 | 0 18 | 1 7 | 1 27 | 24 29 | 6 47 | 2 58 | 2 49 | 17 53 | 1 21 | 5 38 |
| T 25 | 23 25 | 4 39 | 0n29 | 25 5 | 2 6 | 16 44 | 0 14 | 18 22 | 1 11 | 21 58 | 0 31 | 16 47 | 1 11 | 23 43 | 0 18 | 1 7 | 1 27 | 24 29 | 6 47 | 2 58 | 2 48 | 17 53 | 1 21 | 5 39 |
| F 26 | 23 23 | 8 18 | 1 32 | 24 57 | 2 7 | 16 25 | 0 4 | 18 9 | 1 11 | 22 0 | 0 31 | 16 45 | 1 11 | 23 43 | 0 18 | 1 7 | 1 27 | 24 30 | 6 47 | 2 57 | 2 47 | 17 54 | 1 20 | 5 39 |
| S 27 | 23 21 | 11 33 | 2 30 | 24 48 | 2 8 | 16 6 | 0n 6 | 17 55 | 1 10 | 22 1 | 0 31 | 16 43 | 1 11 | 23 43 | 0 18 | 1 7 | 1 27 | 24 30 | 6 47 | 2 56 | 2 45 | 17 54 | 1 20 | 5 39 |
| S 28 | 23 18 | 14 17 | 3 20 | 24 37 | 2 9 | 15 48 | 0 16 | 17 41 | 1 10 | 22 3 | 0 31 | 16 42 | 1 11 | 23 43 | 0 18 | 1 6 | 1 27 | 24 31 | 6 47 | 2 54 | 2 44 | 17 54 | 1 20 | 5 40 |
| M29 | 23 14 | 16 24 | 4 2 | 24 25 | 2 9 | 15 30 | 0 27 | 17 26 | 1 9 | 22 4 | 0 31 | 16 40 | 1 11 | 23 43 | 0 18 | 1 6 | 1 27 | 24 31 | 6 48 | 2 51 | 2 43 | 17 55 | 1 19 | 5 40 |
| T 30 | 23 10 | 17 50 | 4 33 | 24 11 | 2 9 | 15 11 | 0 38 | 17 12 | 1 9 | 22 6 | 0 31 | 16 38 | 1 11 | 23 43 | 0 18 | 1 6 | 1 27 | 24 32 | 6 48 | 2 46 | 2 42 | 17 55 | 1 19 | 5 41 |
| W31 | 23s 6 | 18s29 | 4n53 | 23s55 | 2s 8 | 14s54 | 0n50 | 16s57 | 1s 9 | 22s 7 | 0n31 | 16s36 | 1s11 | 23n43 | 0n18 | 1s 6 | 1s27 | 24n32 | 6n48 | 2s41 | 2s40 | 17s56 | 1n19 | 5s41 |

Julian Day Number = 2341576.5, Delta T = 14.67 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'15, Lahiri = 19°39'15Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## JANUARY 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 6 43 26 | 10♉57'58 | 6♉27 | 22♉46 | 17♒37 | 17♒27 | 15♐13 | 18♒ 2 | 4°R 1 | 0♈36 | 9°R 8 | 6°R29 | 6♎40 | 15♐46 | 13°R19 | T 1 |
| F 2 | 6 47 22 | 11°59'10 | 18°29 | 24°23 | 17°56 | 18°14 | 15°25 | 18° 8 | 3♋58 | 0°37 | 9♌ 7 | 6♎14 | 6°37 | 15°52 | 13♍19 | F 2 |
| S 3 | 6 51 19 | 13° 0'21 | 0♒37 | 26° 1 | 18°14 | 19° 1 | 15°38 | 18°15 | 3°56 | 0°38 | 9° 6 | 6° 0 | 6°34 | 15°59 | 13°18 | S 3 |
| S 4 | 6 55 15 | 14° 1'32 | 12°52 | 27°38 | 18°29 | 19°48 | 15°51 | 18°21 | 3°53 | 0°38 | 9° 4 | 5°48 | 6°31 | 16° 6 | 13°17 | S 4 |
| M 5 | 6 59 12 | 15° 2'43 | 25°16 | 29°14 | 18°42 | 20°35 | 16° 4 | 18°27 | 3°51 | 0°39 | 9° 3 | 5°40 | 6°27 | 16°12 | 13°16 | M 5 |
| T 6 | 7 3 9 | 16° 3'53 | 7♓50 | 0♒50 | 18°53 | 21°22 | 16°16 | 18°34 | 3°48 | 0°40 | 9° 2 | 5°34 | 6°24 | 16°19 | 13°15 | T 6 |
| W 7 | 7 7 5 | 17° 5'03 | 20°36 | 2°25 | 19° 1 | 22°10 | 16°29 | 18°40 | 3°46 | 0°41 | 9° 1 | 5°31 | 6°21 | 16°26 | 13°14 | W 7 |
| T 8 | 7 11 2 | 18° 6'12 | 3♈38 | 3°58 | 19° 7 | 22°57 | 16°42 | 18°47 | 3°43 | 0°42 | 8°59 | 5°D30 | 6°18 | 16°33 | 13°12 | T 8 |
| F 9 | 7 14 58 | 19° 7'20 | 16°58 | 5°30 | 19°11 | 23°44 | 16°54 | 18°54 | 3°41 | 0°43 | 8°58 | 5°R30 | 6°15 | 16°39 | 13°11 | F 9 |
| S 10 | 7 18 55 | 20° 8'28 | 0♉40 | 7° 0 | 19°R13 | 24°31 | 17° 6 | 19° 0 | 3°38 | 0°44 | 8°57 | 5°30 | 6°12 | 16°46 | 13°10 | S 10 |
| S 11 | 7 22 51 | 21° 9'35 | 14°45 | 8°28 | 19°11 | 25°18 | 17°19 | 19° 7 | 3°36 | 0°45 | 8°55 | 5°28 | 6° 8 | 16°53 | 13° 8 | S 11 |
| M12 | 7 26 48 | 22°10'41 | 29°12 | 9°52 | 19° 8 | 26° 5 | 17°31 | 19°13 | 3°33 | 0°46 | 8°54 | 5°24 | 6° 5 | 16°59 | 13° 6 | M12 |
| T 13 | 7 30 44 | 23°11'46 | 13♊59 | 11°14 | 19° 2 | 26°52 | 17°43 | 19°20 | 3°31 | 0°47 | 8°53 | 5°16 | 6° 2 | 17° 6 | 13° 4 | T 13 |
| W14 | 7 34 41 | 24°12'51 | 29° 1 | 12°32 | 18°53 | 27°39 | 17°56 | 19°27 | 3°29 | 0°48 | 8°51 | 5° 7 | 5°59 | 17°13 | 13° 2 | W14 |
| T 15 | 7 38 38 | 25°13'54 | 14♋ 7 | 13°45 | 18°42 | 28°26 | 18° 8 | 19°34 | 3°26 | 0°49 | 8°50 | 4°56 | 5°56 | 17°20 | 13° 0 | T 15 |
| F 16 | 7 42 34 | 26°14'58 | 29° 8 | 14°52 | 18°28 | 29°13 | 18°20 | 19°41 | 3°24 | 0°51 | 8°49 | 4°45 | 5°52 | 17°26 | 12°58 | F 16 |
| S 17 | 7 46 31 | 27°16'00 | 13♌54 | 15°54 | 18°12 | 0♓ 0 | 18°32 | 19°47 | 3°22 | 0°52 | 8°47 | 4°36 | 5°49 | 17°33 | 12°56 | S 17 |
| S 18 | 7 50 27 | 28°17'02 | 28°17 | 16°49 | 17°53 | 0°47 | 18°44 | 19°54 | 3°19 | 0°53 | 8°46 | 4°29 | 5°46 | 17°40 | 12°53 | S 18 |
| M19 | 7 54 24 | 29°18'03 | 12♍13 | 17°36 | 17°32 | 1°34 | 18°56 | 20° 1 | 3°17 | 0°54 | 8°44 | 4°24 | 5°43 | 17°46 | 12°51 | M19 |
| T 20 | 7 58 20 | 0♒19'03 | 25°39 | 18°14 | 17° 9 | 2°21 | 19° 8 | 20° 8 | 3°15 | 0°56 | 8°43 | 4°22 | 5°40 | 17°53 | 12°48 | T 20 |
| W21 | 8 2 17 | 1°20'03 | 8♎39 | 18°43 | 16°43 | 3° 8 | 19°19 | 20°15 | 3°13 | 0°57 | 8°42 | 4°D22 | 5°37 | 18° 0 | 12°46 | W21 |
| T 22 | 8 6 13 | 2°21'02 | 21°15 | 19° 1 | 16°16 | 3°55 | 19°31 | 20°22 | 3°10 | 0°58 | 8°40 | 4°22 | 5°33 | 18° 7 | 12°43 | T 22 |
| F 23 | 8 10 10 | 3°22'01 | 3♏31 | 19°R 9 | 15°46 | 4°42 | 19°43 | 20°29 | 3° 8 | 1° 0 | 8°39 | 4°R23 | 5°30 | 18°13 | 12°40 | F 23 |
| S 24 | 8 14 7 | 4°22'59 | 15°34 | 19° 5 | 15°15 | 5°29 | 19°54 | 20°36 | 3° 6 | 1° 1 | 8°38 | 4°22 | 5°27 | 18°20 | 12°37 | S 24 |
| S 25 | 8 18 3 | 5°23'56 | 27°28 | 18°51 | 14°42 | 6°16 | 20° 6 | 20°43 | 3° 4 | 1° 3 | 8°36 | 4°19 | 5°24 | 18°27 | 12°34 | S 25 |
| M26 | 8 22 0 | 6°24'53 | 9♐18 | 18°25 | 14° 9 | 7° 3 | 20°17 | 20°50 | 3° 2 | 1° 4 | 8°35 | 4°14 | 5°21 | 18°33 | 12°31 | M26 |
| T 27 | 8 25 56 | 7°25'49 | 21° 8 | 17°48 | 13°33 | 7°49 | 20°28 | 20°57 | 3° 0 | 1° 5 | 8°33 | 4° 6 | 5°18 | 18°40 | 12°27 | T 27 |
| W28 | 8 29 53 | 8°26'43 | 3♑ 3 | 17° 1 | 12°57 | 8°36 | 20°39 | 21° 4 | 2°58 | 1° 7 | 8°32 | 3°57 | 5°14 | 18°47 | 12°24 | W28 |
| T 29 | 8 33 49 | 9°27'37 | 15° 5 | 16° 6 | 12°21 | 9°23 | 20°50 | 21°12 | 2°56 | 1° 9 | 8°30 | 3°46 | 5°11 | 18°54 | 12°21 | T 29 |
| F 30 | 8 37 46 | 10°28'30 | 27°15 | 15° 3 | 11°44 | 10°10 | 21° 2 | 21°19 | 2°54 | 1°10 | 8°29 | 3°35 | 5° 8 | 19° 0 | 12°17 | F 30 |
| S 31 | 8 41 43 | 11♒29'22 | 9♒35 | 13♒56 | 11♒ 7 | 10♓57 | 21♐12 | 21♒26 | 2♋52 | 1♈12 | 8♌28 | 3♎25 | 5♎ 5 | 19♐ 7 | 12♍14 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 23s 1 | 18s20 | 4n59 | 23s38 | 2s 7 | 14s36 | 1n 2 | 16s42 | 1s 8 | 22s 9 | 0n31 | 16s34 | 1s11 | 23n43 | 0n18 | 1s 5 | 1s27 | 24n33 | 6n48 | 2s35 | 2s39 | 17s56 | 1n18 | 5s41 |
| F 2 | 22 56 | 17 22 | 4 53 | 23 19 | 2 5 | 14 18 | 1 14 | 16 28 | 1 8 | 22 10 | 0 31 | 16 32 | 1 11 | 23 43 | 0 18 | 1 5 | 1 27 | 24 33 | 6 48 | 2 29 | 2 38 | 17 56 | 1 18 | 5 42 |
| S 3 | 22 50 | 15 37 | 4 33 | 22 59 | 2 2 | 14 1 | 1 26 | 16 12 | 1 7 | 22 12 | 0 31 | 16 30 | 1 11 | 23 43 | 0 18 | 1 5 | 1 27 | 24 34 | 6 48 | 2 23 | 2 37 | 17 57 | 1 18 | 5 42 |
| S 4 | 22 44 | 13 8 | 4 0 | 22 37 | 1 59 | 13 45 | 1 39 | 15 57 | 1 7 | 22 13 | 0 30 | 16 28 | 1 11 | 23 43 | 0 18 | 1 4 | 1 27 | 24 34 | 6 49 | 2 19 | 2 35 | 17 57 | 1 18 | 5 43 |
| M 5 | 22 38 | 10 3 | 3 15 | 22 13 | 1 55 | 13 28 | 1 52 | 15 42 | 1 6 | 22 14 | 0 30 | 16 26 | 1 11 | 23 43 | 0 18 | 1 4 | 1 27 | 24 35 | 6 49 | 2 15 | 2 34 | 17 57 | 1 18 | 5 43 |
| T 6 | 22 30 | 6 28 | 2 21 | 21 49 | 1 51 | 13 12 | 2 5 | 15 26 | 1 6 | 22 16 | 0 30 | 16 24 | 1 11 | 23 44 | 0 18 | 1 3 | 1 27 | 24 35 | 6 49 | 2 13 | 2 33 | 17 58 | 1 18 | 5 43 |
| W 7 | 22 23 | 2 32 | 1 18 | 21 22 | 1 46 | 12 57 | 2 19 | 15 10 | 1 5 | 22 17 | 0 30 | 16 22 | 1 11 | 23 44 | 0 18 | 1 3 | 1 27 | 24 36 | 6 49 | 2 12 | 2 32 | 17 58 | 1 18 | 5 44 |
| T 8 | 22 15 | 1n36 | 0 10 | 20 55 | 1 40 | 12 41 | 2 33 | 14 54 | 1 5 | 22 18 | 0 30 | 16 20 | 1 11 | 23 44 | 0 18 | 1 3 | 1 27 | 24 36 | 6 49 | 2 11 | 2 30 | 17 58 | 1 19 | 5 44 |
| F 9 | 22 7 | 5 45 | 1s 0 | 20 26 | 1 34 | 12 27 | 2 47 | 14 38 | 1 4 | 22 20 | 0 30 | 16 18 | 1 11 | 23 44 | 0 18 | 1 2 | 1 26 | 24 37 | 6 49 | 2 11 | 2 29 | 17 59 | 1 19 | 5 44 |
| S 10 | 21 58 | 9 42 | 2 9 | 19 56 | 1 26 | 12 13 | 3 1 | 14 22 | 1 4 | 22 21 | 0 30 | 16 16 | 1 11 | 23 44 | 0 18 | 1 2 | 1 26 | 24 37 | 6 49 | 2 11 | 2 28 | 17 59 | 1 19 | 5 45 |
| S 11 | 21 49 | 13 14 | 3 12 | 19 26 | 1 18 | 11 59 | 3 16 | 14 6 | 1 3 | 22 22 | 0 30 | 16 14 | 1 11 | 23 44 | 0 18 | 1 1 | 1 26 | 24 38 | 6 50 | 2 11 | 2 26 | 17 59 | 1 19 | 5 45 |
| M12 | 21 39 | 16 2 | 4 4 | 18 54 | 1 9 | 11 46 | 3 31 | 13 49 | 1 2 | 22 23 | 0 30 | 16 12 | 1 11 | 23 44 | 0 18 | 1 1 | 1 26 | 24 38 | 6 50 | 2 9 | 2 25 | 18 0 | 1 20 | 5 45 |
| T 13 | 21 29 | 17 51 | 4 41 | 18 22 | 0 59 | 11 34 | 3 45 | 13 33 | 1 2 | 22 25 | 0 30 | 16 10 | 1 11 | 23 44 | 0 18 | 1 0 | 1 26 | 24 39 | 6 50 | 2 6 | 2 24 | 18 0 | 1 20 | 5 46 |
| W14 | 21 18 | 18 28 | 5 0 | 17 50 | 0 48 | 11 23 | 4 0 | 13 16 | 1 1 | 22 26 | 0 30 | 16 8 | 1 11 | 23 44 | 0 18 | 1 0 | 1 26 | 24 39 | 6 50 | 2 2 | 2 23 | 18 1 | 1 21 | 5 46 |
| T 15 | 21 7 | 17 47 | 4 58 | 17 18 | 0 36 | 11 12 | 4 15 | 12 59 | 1 1 | 22 27 | 0 30 | 16 5 | 1 11 | 23 44 | 0 18 | 0 59 | 1 26 | 24 40 | 6 50 | 1 58 | 2 21 | 18 1 | 1 21 | 5 46 |
| F 16 | 20 56 | 15 52 | 4 35 | 16 45 | 0 23 | 11 2 | 4 30 | 12 42 | 1 0 | 22 28 | 0 30 | 16 3 | 1 11 | 23 44 | 0 18 | 0 59 | 1 26 | 24 40 | 6 50 | 1 54 | 2 20 | 18 1 | 1 22 | 5 47 |
| S 17 | 20 44 | 12 56 | 3 54 | 16 14 | 0 9 | 10 52 | 4 45 | 12 25 | 1 0 | 22 29 | 0 30 | 16 1 | 1 11 | 23 44 | 0 18 | 0 58 | 1 26 | 24 41 | 6 50 | 1 50 | 2 19 | 18 2 | 1 22 | 5 47 |
| S 18 | 20 32 | 9 17 | 2 59 | 15 44 | 0n 6 | 10 44 | 5 0 | 12 8 | 0 59 | 22 30 | 0 30 | 15 59 | 1 11 | 23 44 | 0 18 | 0 58 | 1 26 | 24 41 | 6 50 | 1 47 | 2 18 | 18 2 | 1 23 | 5 47 |
| M19 | 20 20 | 5 13 | 1 55 | 15 14 | 0 22 | 10 36 | 5 15 | 11 51 | 0 59 | 22 31 | 0 30 | 15 57 | 1 11 | 23 44 | 0 18 | 0 57 | 1 26 | 24 42 | 6 51 | 1 45 | 2 16 | 18 2 | 1 24 | 5 48 |
| T 20 | 20 7 | 1 1 | 0 46 | 14 47 | 0 38 | 10 29 | 5 29 | 11 33 | 0 58 | 22 32 | 0 30 | 15 55 | 1 11 | 23 45 | 0 18 | 0 57 | 1 26 | 24 42 | 6 51 | 1 44 | 2 15 | 18 2 | 1 24 | 5 48 |
| W21 | 19 54 | 3s 5 | 0n23 | 14 22 | 0 55 | 10 23 | 5 44 | 11 16 | 0 57 | 22 33 | 0 30 | 15 53 | 1 11 | 23 45 | 0 18 | 0 56 | 1 26 | 24 43 | 6 51 | 1 44 | 2 14 | 18 3 | 1 25 | 5 48 |
| T 22 | 19 40 | 6 56 | 1 29 | 14 0 | 1 12 | 10 18 | 5 58 | 10 58 | 0 57 | 22 34 | 0 30 | 15 50 | 1 11 | 23 45 | 0 18 | 0 56 | 1 26 | 24 43 | 6 51 | 1 44 | 2 13 | 18 3 | 1 26 | 5 48 |
| F 23 | 19 26 | 10 22 | 2 29 | 13 41 | 1 30 | 10 13 | 6 11 | 10 41 | 0 56 | 22 35 | 0 30 | 15 48 | 1 11 | 23 45 | 0 18 | 0 55 | 1 26 | 24 44 | 6 51 | 1 45 | 2 11 | 18 3 | 1 27 | 5 49 |
| S 24 | 19 12 | 13 19 | 3 22 | 13 25 | 1 48 | 10 10 | 6 24 | 10 23 | 0 56 | 22 36 | 0 30 | 15 46 | 1 11 | 23 45 | 0 18 | 0 54 | 1 26 | 24 44 | 6 51 | 1 44 | 2 10 | 18 4 | 1 28 | 5 49 |
| S 25 | 18 57 | 15 39 | 4 5 | 13 13 | 2 6 | 10 7 | 6 37 | 10 5 | 0 55 | 22 37 | 0 30 | 15 44 | 1 11 | 23 45 | 0 18 | 0 54 | 1 26 | 24 44 | 6 51 | 1 43 | 2 9 | 18 4 | 1 29 | 5 49 |
| M26 | 18 42 | 17 19 | 4 37 | 13 4 | 2 23 | 10 5 | 6 49 | 9 47 | 0 55 | 22 38 | 0 30 | 15 41 | 1 11 | 23 45 | 0 18 | 0 53 | 1 26 | 24 45 | 6 51 | 1 41 | 2 8 | 18 4 | 1 30 | 5 49 |
| T 27 | 18 26 | 18 14 | 4 57 | 13 0 | 2 39 | 10 4 | 7 0 | 9 29 | 0 54 | 22 38 | 0 30 | 15 39 | 1 11 | 23 45 | 0 18 | 0 53 | 1 26 | 24 45 | 6 51 | 1 38 | 2 6 | 18 5 | 1 31 | 5 50 |
| W28 | 18 11 | 18 22 | 5 5 | 13 0 | 2 54 | 10 4 | 7 10 | 9 11 | 0 53 | 22 39 | 0 30 | 15 37 | 1 11 | 23 45 | 0 18 | 0 52 | 1 26 | 24 46 | 6 51 | 1 34 | 2 5 | 18 5 | 1 32 | 5 50 |
| T 29 | 17 55 | 17 40 | 4 59 | 13 4 | 3 7 | 10 4 | 7 20 | 8 53 | 0 53 | 22 40 | 0 30 | 15 35 | 1 11 | 23 45 | 0 18 | 0 51 | 1 26 | 24 46 | 6 51 | 1 30 | 2 4 | 18 5 | 1 33 | 5 50 |
| F 30 | 17 38 | 16 10 | 4 40 | 13 11 | 3 18 | 10 6 | 7 29 | 8 34 | 0 52 | 22 41 | 0 29 | 15 32 | 1 11 | 23 45 | 0 18 | 0 51 | 1 26 | 24 47 | 6 51 | 1 26 | 2 3 | 18 6 | 1 34 | 5 50 |
| S 31 | 17s22 | 13s55 | 4n 7 | 13s21 | 3n28 | 10s 8 | 7n37 | 8s16 | 0s52 | 22s42 | 0n29 | 15s30 | 1s11 | 23n45 | 0n18 | 0s50 | 1s26 | 24n47 | 6n52 | 1s22 | 2s 1 | 18s 6 | 1n35 | 5s50 |

Julian Day Number = 2341607.5, Delta T = 14.64 sec
Ecliptic obliquity = 23°28'32, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'19, Lahiri = 19°39'19Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## FEBRUARY 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 8 45 39 | 12♒30'13 | 22♒ 5 | 12°R44 | 10°R30 | 11♓43 | 21♐23 | 21♒33 | 2°R50 | 1♈13 | 8°R26 | 3°R17 | 5♎ 2 | 19♐14 | 12°R10 | S 1 |
| M 2 | 8 49 36 | 13°31'02 | 4♓46 | 11♒32 | 9♒53 | 12°30 | 21°34 | 21°40 | 2♋49 | 1°15 | 8♌25 | 3♎10 | 4°58 | 19°20 | 12♍ 6 | M 2 |
| T 3 | 8 53 32 | 14°31'50 | 17°37 | 10°20 | 9°17 | 13°17 | 21°45 | 21°47 | 2°47 | 1°17 | 8°23 | 3° 7 | 4°55 | 19°27 | 12° 2 | T 3 |
| W 4 | 8 57 29 | 15°32'36 | 0♈40 | 9°11 | 8°42 | 14° 4 | 21°55 | 21°55 | 2°45 | 1°18 | 8°22 | 3°D 6 | 4°52 | 19°34 | 11°58 | W 4 |
| T 5 | 9 1 25 | 16°33'21 | 13°56 | 8° 6 | 8° 7 | 14°50 | 22° 6 | 22° 2 | 2°43 | 1°20 | 8°21 | 3° 6 | 4°49 | 19°41 | 11°54 | T 5 |
| F 6 | 9 5 22 | 17°34'05 | 27°24 | 7° 7 | 7°35 | 15°37 | 22°16 | 22° 9 | 2°42 | 1°22 | 8°19 | 3° 7 | 4°46 | 19°47 | 11°50 | F 6 |
| S 7 | 9 9 18 | 18°34'47 | 11♉ 7 | 6°14 | 7° 3 | 16°24 | 22°26 | 22°16 | 2°40 | 1°24 | 8°18 | 3° 8 | 4°43 | 19°54 | 11°46 | S 7 |
| S 8 | 9 13 15 | 19°35'27 | 25° 5 | 5°28 | 6°33 | 17°10 | 22°37 | 22°24 | 2°39 | 1°25 | 8°16 | 3°R 8 | 4°39 | 20° 1 | 11°42 | S 8 |
| M 9 | 9 17 11 | 20°36'05 | 9♊18 | 4°50 | 6° 6 | 17°57 | 22°47 | 22°31 | 2°37 | 1°27 | 8°15 | 3° 7 | 4°36 | 20° 8 | 11°38 | M 9 |
| T 10 | 9 21 8 | 21°36'42 | 23°43 | 4°20 | 5°40 | 18°43 | 22°57 | 22°38 | 2°36 | 1°29 | 8°14 | 3° 3 | 4°33 | 20°14 | 11°34 | T 10 |
| W11 | 9 25 5 | 22°37'16 | 8♋18 | 3°58 | 5°16 | 19°30 | 23° 6 | 22°45 | 2°34 | 1°31 | 8°12 | 2°58 | 4°30 | 20°21 | 11°29 | W11 |
| T 12 | 9 29 1 | 23°37'50 | 22°57 | 3°44 | 4°55 | 20°16 | 23°16 | 22°53 | 2°33 | 1°33 | 8°11 | 2°52 | 4°27 | 20°28 | 11°25 | T 12 |
| F 13 | 9 32 58 | 24°38'21 | 7♌33 | 3°D37 | 4°35 | 21° 3 | 23°26 | 23° 0 | 2°32 | 1°35 | 8°10 | 2°46 | 4°24 | 20°34 | 11°21 | F 13 |
| S 14 | 9 36 54 | 25°38'51 | 21°59 | 3°37 | 4°19 | 21°49 | 23°35 | 23° 7 | 2°30 | 1°37 | 8° 8 | 2°41 | 4°20 | 20°41 | 11°16 | S 14 |
| S 15 | 9 40 51 | 26°39'19 | 6♍ 9 | 3°44 | 4° 4 | 22°35 | 23°45 | 23°14 | 2°29 | 1°38 | 8° 7 | 2°36 | 4°17 | 20°48 | 11°12 | S 15 |
| M16 | 9 44 47 | 27°39'45 | 19°57 | 3°57 | 3°52 | 23°22 | 23°54 | 23°21 | 2°28 | 1°40 | 8° 6 | 2°34 | 4°14 | 20°55 | 11° 7 | M16 |
| T 17 | 9 48 44 | 28°40'10 | 3♎22 | 4°16 | 3°43 | 24° 8 | 24° 3 | 23°29 | 2°27 | 1°42 | 8° 4 | 2°D33 | 4°11 | 21° 1 | 11° 2 | T 17 |
| W18 | 9 52 40 | 29°40'34 | 16°24 | 4°41 | 3°36 | 24°54 | 24°12 | 23°36 | 2°26 | 1°44 | 8° 3 | 2°34 | 4° 8 | 21° 8 | 10°58 | W18 |
| T 19 | 9 56 37 | 0♓40'56 | 29° 4 | 5°11 | 3°32 | 25°40 | 24°21 | 23°43 | 2°25 | 1°46 | 8° 2 | 2°36 | 4° 4 | 21°15 | 10°53 | T 19 |
| F 20 | 10 0 34 | 1°41'16 | 11♏25 | 5°45 | 3°D30 | 26°26 | 24°30 | 23°50 | 2°24 | 1°48 | 8° 0 | 2°37 | 4° 1 | 21°21 | 10°48 | F 20 |
| S 21 | 10 4 30 | 2°41'35 | 23°32 | 6°25 | 3°30 | 27°13 | 24°39 | 23°57 | 2°23 | 1°50 | 7°59 | 2°39 | 3°58 | 21°28 | 10°44 | S 21 |
| S 22 | 10 8 27 | 3°41'53 | 5♐29 | 7° 8 | 3°33 | 27°59 | 24°47 | 24° 5 | 2°22 | 1°52 | 7°58 | 2°R39 | 3°55 | 21°35 | 10°39 | S 22 |
| M23 | 10 12 23 | 4°42'09 | 17°21 | 7°54 | 3°39 | 28°45 | 24°56 | 24°12 | 2°21 | 1°55 | 7°57 | 2°38 | 3°52 | 21°42 | 10°34 | M23 |
| T 24 | 10 16 20 | 5°42'24 | 29°13 | 8°45 | 3°46 | 29°31 | 25° 4 | 24°19 | 2°20 | 1°57 | 7°55 | 2°36 | 3°49 | 21°48 | 10°29 | T 24 |
| W25 | 10 20 16 | 6°42'37 | 11♑10 | 9°38 | 3°56 | 0♈17 | 25°12 | 24°26 | 2°20 | 1°59 | 7°54 | 2°33 | 3°45 | 21°55 | 10°25 | W25 |
| T 26 | 10 24 13 | 7°42'49 | 23°15 | 10°35 | 4° 8 | 1° 3 | 25°21 | 24°33 | 2°19 | 2° 1 | 7°53 | 2°29 | 3°42 | 22° 2 | 10°20 | T 26 |
| F 27 | 10 28 9 | 8°42'59 | 5♒32 | 11°34 | 4°22 | 1°49 | 25°29 | 24°40 | 2°18 | 2° 3 | 7°52 | 2°25 | 3°39 | 22° 8 | 10°15 | F 27 |
| S 28 | 10 32 6 | 9♓43'07 | 18♒ 2 | 12♒36 | 4♒39 | 2♈35 | 25♐36 | 24♒47 | 2♋18 | 2♈ 5 | 7♌51 | 2♎21 | 3♎36 | 22♐15 | 10♍10 | S 28 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 17s 5 | 10s59 | 3n22 | 13s35 | 3n35 | 10s10 | 7n44 | 7s58 | 0s51 | 22s42 | 0n29 | 15s28 | 1s11 | 23n45 | 0n18 | 0s49 | 1s26 | 24n48 | 6n52 | 1s18 | 2s 0 | 18s 6 | 1n36 | 5s50 |
| M 2 | 16 47 | 7 30 | 2 26 | 13 50 | 3 39 | 10 14 | 7 51 | 7 39 | 0 50 | 22 43 | 0 29 | 15 26 | 1 11 | 23 45 | 0 18 | 0 49 | 1 26 | 24 48 | 6 52 | 1 16 | 1 59 | 18 6 | 1 38 | 5 50 |
| T 3 | 16 30 | 3 38 | 1 22 | 14 7 | 3 41 | 10 18 | 7 56 | 7 21 | 0 50 | 22 44 | 0 29 | 15 23 | 1 11 | 23 45 | 0 18 | 0 48 | 1 26 | 24 49 | 6 52 | 1 14 | 1 58 | 18 7 | 1 39 | 5 51 |
| W 4 | 16 12 | 0n28 | 0 13 | 14 26 | 3 41 | 10 22 | 8 1 | 7 2 | 0 49 | 22 44 | 0 29 | 15 21 | 1 11 | 23 45 | 0 18 | 0 47 | 1 26 | 24 49 | 6 52 | 1 14 | 1 56 | 18 7 | 1 40 | 5 51 |
| T 5 | 15 54 | 4 36 | 0s58 | 14 45 | 3 39 | 10 27 | 8 4 | 6 43 | 0 48 | 22 45 | 0 29 | 15 19 | 1 11 | 23 45 | 0 18 | 0 47 | 1 26 | 24 49 | 6 52 | 1 14 | 1 55 | 18 7 | 1 42 | 5 51 |
| F 6 | 15 36 | 8 35 | 2 8 | 15 4 | 3 34 | 10 33 | 8 7 | 6 25 | 0 48 | 22 46 | 0 29 | 15 16 | 1 11 | 23 45 | 0 18 | 0 46 | 1 26 | 24 50 | 6 52 | 1 15 | 1 54 | 18 7 | 1 43 | 5 51 |
| S 7 | 15 17 | 12 10 | 3 11 | 15 23 | 3 28 | 10 39 | 8 9 | 6 6 | 0 47 | 22 46 | 0 29 | 15 14 | 1 11 | 23 45 | 0 18 | 0 45 | 1 25 | 24 50 | 6 52 | 1 15 | 1 52 | 18 8 | 1 45 | 5 51 |
| S 8 | 14 58 | 15 7 | 4 4 | 15 42 | 3 20 | 10 45 | 8 9 | 5 47 | 0 47 | 22 47 | 0 29 | 15 12 | 1 12 | 23 45 | 0 18 | 0 44 | 1 25 | 24 51 | 6 52 | 1 15 | 1 51 | 18 8 | 1 46 | 5 51 |
| M 9 | 14 39 | 17 12 | 4 43 | 16 0 | 3 11 | 10 52 | 8 9 | 5 29 | 0 46 | 22 48 | 0 29 | 15 9 | 1 12 | 23 45 | 0 18 | 0 44 | 1 25 | 24 51 | 6 52 | 1 14 | 1 50 | 18 8 | 1 48 | 5 51 |
| T 10 | 14 19 | 18 14 | 5 5 | 16 17 | 3 0 | 10 59 | 8 9 | 5 10 | 0 45 | 22 48 | 0 29 | 15 7 | 1 12 | 23 45 | 0 18 | 0 43 | 1 25 | 24 51 | 6 52 | 1 13 | 1 49 | 18 9 | 1 49 | 5 51 |
| W11 | 14 0 | 18 5 | 5 8 | 16 33 | 2 49 | 11 6 | 8 7 | 4 51 | 0 45 | 22 49 | 0 29 | 15 5 | 1 12 | 23 45 | 0 18 | 0 42 | 1 25 | 24 52 | 6 52 | 1 11 | 1 47 | 18 9 | 1 51 | 5 51 |
| T 12 | 13 40 | 16 44 | 4 51 | 16 48 | 2 38 | 11 13 | 8 5 | 4 32 | 0 44 | 22 49 | 0 29 | 15 3 | 1 12 | 23 45 | 0 18 | 0 41 | 1 25 | 24 52 | 6 52 | 1 9 | 1 46 | 18 9 | 1 53 | 5 51 |
| F 13 | 13 20 | 14 18 | 4 15 | 17 1 | 2 25 | 11 21 | 8 2 | 4 13 | 0 43 | 22 50 | 0 29 | 15 0 | 1 12 | 23 45 | 0 18 | 0 41 | 1 25 | 24 53 | 6 52 | 1 6 | 1 45 | 18 9 | 1 54 | 5 51 |
| S 14 | 12 59 | 11 0 | 3 23 | 17 13 | 2 13 | 11 28 | 7 58 | 3 54 | 0 43 | 22 50 | 0 29 | 14 58 | 1 12 | 23 45 | 0 18 | 0 40 | 1 25 | 24 53 | 6 52 | 1 4 | 1 44 | 18 10 | 1 56 | 5 51 |
| S 15 | 12 39 | 7 7 | 2 19 | 17 24 | 2 0 | 11 35 | 7 53 | 3 35 | 0 42 | 22 51 | 0 29 | 14 56 | 1 12 | 23 45 | 0 18 | 0 39 | 1 25 | 24 53 | 6 52 | 1 2 | 1 42 | 18 10 | 1 58 | 5 51 |
| M16 | 12 18 | 2 56 | 1 8 | 17 33 | 1 48 | 11 43 | 7 49 | 3 16 | 0 41 | 22 51 | 0 29 | 14 53 | 1 12 | 23 45 | 0 18 | 0 38 | 1 25 | 24 54 | 6 52 | 1 1 | 1 41 | 18 10 | 2 0 | 5 51 |
| T 17 | 11 57 | 1s16 | 0n 4 | 17 41 | 1 35 | 11 50 | 7 43 | 2 57 | 0 41 | 22 52 | 0 29 | 14 51 | 1 12 | 23 45 | 0 18 | 0 37 | 1 25 | 24 54 | 6 52 | 1 1 | 1 40 | 18 10 | 2 1 | 5 51 |
| W18 | 11 36 | 5 18 | 1 15 | 17 47 | 1 22 | 11 58 | 7 37 | 2 39 | 0 40 | 22 52 | 0 29 | 14 49 | 1 12 | 23 46 | 0 18 | 0 37 | 1 25 | 24 54 | 6 52 | 1 1 | 1 39 | 18 11 | 2 3 | 5 51 |
| T 19 | 11 15 | 8 59 | 2 20 | 17 52 | 1 10 | 12 5 | 7 31 | 2 20 | 0 39 | 22 52 | 0 29 | 14 46 | 1 12 | 23 46 | 0 18 | 0 36 | 1 25 | 24 55 | 6 52 | 1 2 | 1 37 | 18 11 | 2 5 | 5 51 |
| F 20 | 10 53 | 12 10 | 3 17 | 17 56 | 0 58 | 12 12 | 7 24 | 2 1 | 0 39 | 22 53 | 0 29 | 14 44 | 1 12 | 23 46 | 0 18 | 0 35 | 1 25 | 24 55 | 6 52 | 1 3 | 1 36 | 18 11 | 2 7 | 5 51 |
| S 21 | 10 32 | 14 45 | 4 3 | 17 58 | 0 46 | 12 19 | 7 17 | 1 42 | 0 38 | 22 53 | 0 29 | 14 42 | 1 12 | 23 46 | 0 18 | 0 34 | 1 25 | 24 55 | 6 52 | 1 3 | 1 35 | 18 11 | 2 9 | 5 50 |
| S 22 | 10 10 | 16 40 | 4 39 | 17 58 | 0 34 | 12 25 | 7 10 | 1 23 | 0 37 | 22 53 | 0 29 | 14 39 | 1 12 | 23 46 | 0 18 | 0 33 | 1 25 | 24 56 | 6 52 | 1 3 | 1 34 | 18 11 | 2 11 | 5 50 |
| M23 | 9 48 | 17 51 | 5 2 | 17 57 | 0 23 | 12 31 | 7 2 | 1 4 | 0 37 | 22 54 | 0 29 | 14 37 | 1 13 | 23 46 | 0 18 | 0 32 | 1 25 | 24 56 | 6 52 | 1 3 | 1 32 | 18 12 | 2 13 | 5 50 |
| T 24 | 9 26 | 18 16 | 5 13 | 17 55 | 0 12 | 12 38 | 6 54 | 0 45 | 0 36 | 22 54 | 0 29 | 14 35 | 1 13 | 23 46 | 0 18 | 0 32 | 1 25 | 24 56 | 6 52 | 1 2 | 1 31 | 18 12 | 2 15 | 5 50 |
| W25 | 9 4 | 17 51 | 5 10 | 17 51 | 0 1 | 12 43 | 6 46 | 0 26 | 0 35 | 22 54 | 0 29 | 14 32 | 1 13 | 23 46 | 0 18 | 0 31 | 1 25 | 24 57 | 6 52 | 1 1 | 1 30 | 18 12 | 2 17 | 5 50 |
| T 26 | 8 41 | 16 39 | 4 53 | 17 46 | 0s 9 | 12 49 | 6 37 | 0 7 | 0 35 | 22 55 | 0 29 | 14 30 | 1 13 | 23 46 | 0 18 | 0 30 | 1 25 | 24 57 | 6 52 | 0 59 | 1 28 | 18 12 | 2 19 | 5 50 |
| F 27 | 8 19 | 14 40 | 4 23 | 17 39 | 0 19 | 12 54 | 6 29 | 0n12 | 0 34 | 22 55 | 0 29 | 14 28 | 1 13 | 23 46 | 0 18 | 0 29 | 1 25 | 24 57 | 6 52 | 0 58 | 1 27 | 18 13 | 2 21 | 5 49 |
| S 28 | 7s56 | 11s58 | 3n40 | 17s31 | 0s29 | 12s59 | 6n20 | 0n31 | 0s33 | 22s55 | 0n29 | 14s25 | 1s13 | 23n46 | 0n18 | 0s28 | 1s25 | 24n58 | 6n52 | 0s56 | 1s26 | 18s13 | 2n23 | 5s49 |

Julian Day Number = 2341638.5, Delta T = 14.61 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'23, Lahiri = 19°39'24Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## MARCH 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 10 36 3 | 10♓43'14 | 0♓47 | 13♒41 | 4♒57 | 3♈21 | 25♐44 | 24♒55 | 2°R17 | 2♈ 7 | 7°R50 | 2°R18 | 3♎33 | 22♐22 | 10°R 5 | S 1 |
| M 2 | 10 39 59 | 11°43'18 | 13°47 | 14°48 | 5°17 | 4° 6 | 25°52 | 25° 2 | 2♋17 | 2° 9 | 7♌48 | 2♎16 | 3°29 | 22°29 | 10♍ 0 | M 2 |
| T 3 | 10 43 56 | 12°43'21 | 27° 1 | 15°57 | 5°39 | 4°52 | 25°59 | 25° 9 | 2°16 | 2°11 | 7°47 | 2°D15 | 3°26 | 22°35 | 9°56 | T 3 |
| W 4 | 10 47 52 | 13°43'22 | 10♈29 | 17° 8 | 6° 3 | 5°38 | 26° 6 | 25°16 | 2°16 | 2°14 | 7°46 | 2°15 | 3°23 | 22°42 | 9°51 | W 4 |
| T 5 | 10 51 49 | 14°43'20 | 24° 8 | 18°21 | 6°28 | 6°24 | 26°13 | 25°23 | 2°16 | 2°16 | 7°45 | 2°16 | 3°20 | 22°49 | 9°46 | T 5 |
| F 6 | 10 55 45 | 15°43'17 | 7♉58 | 19°36 | 6°55 | 7° 9 | 26°20 | 25°30 | 2°15 | 2°18 | 7°44 | 2°17 | 3°17 | 22°56 | 9°41 | F 6 |
| S 7 | 10 59 42 | 16°43'11 | 21°57 | 20°52 | 7°24 | 7°55 | 26°27 | 25°36 | 2°15 | 2°20 | 7°43 | 2°18 | 3°14 | 23° 2 | 9°36 | S 7 |
| S 8 | 11 3 38 | 17°43'04 | 6♊ 2 | 22°10 | 7°54 | 8°40 | 26°34 | 25°43 | 2°15 | 2°22 | 7°42 | 2°19 | 3°10 | 23° 9 | 9°32 | S 8 |
| M 9 | 11 7 35 | 18°42'54 | 20°12 | 23°30 | 8°26 | 9°26 | 26°40 | 25°50 | 2°15 | 2°25 | 7°41 | 2°R19 | 3° 7 | 23°16 | 9°27 | M 9 |
| T 10 | 11 11 32 | 19°42'41 | 4♋26 | 24°52 | 8°59 | 10°11 | 26°47 | 25°57 | 2°D15 | 2°27 | 7°40 | 2°19 | 3° 4 | 23°22 | 9°22 | T 10 |
| W11 | 11 15 28 | 20°42'27 | 18°40 | 26°15 | 9°33 | 10°57 | 26°53 | 26° 4 | 2°15 | 2°29 | 7°39 | 2°18 | 3° 1 | 23°29 | 9°18 | W11 |
| T 12 | 11 19 25 | 21°42'10 | 2♌52 | 27°39 | 10° 9 | 11°42 | 26°59 | 26°11 | 2°15 | 2°31 | 7°38 | 2°17 | 2°58 | 23°36 | 9°13 | T 12 |
| F 13 | 11 23 21 | 22°41'51 | 16°58 | 29° 5 | 10°46 | 12°28 | 27° 5 | 26°17 | 2°15 | 2°34 | 7°37 | 2°16 | 2°55 | 23°43 | 9° 8 | F 13 |
| S 14 | 11 27 18 | 23°41'29 | 0♍54 | 0♓33 | 11°25 | 13°13 | 27°11 | 26°24 | 2°15 | 2°36 | 7°36 | 2°14 | 2°51 | 23°49 | 9° 4 | S 14 |
| S 15 | 11 31 14 | 24°41'06 | 14°38 | 2° 1 | 12° 4 | 13°58 | 27°16 | 26°31 | 2°15 | 2°38 | 7°35 | 2°14 | 2°48 | 23°56 | 8°59 | S 15 |
| M16 | 11 35 11 | 25°40'40 | 28° 7 | 3°32 | 12°45 | 14°43 | 27°22 | 26°38 | 2°16 | 2°40 | 7°34 | 2°D13 | 2°45 | 24° 3 | 8°55 | M16 |
| T 17 | 11 39 7 | 26°40'12 | 11♎18 | 5° 3 | 13°26 | 15°28 | 27°27 | 26°44 | 2°16 | 2°43 | 7°33 | 2°14 | 2°42 | 24° 9 | 8°50 | T 17 |
| W18 | 11 43 4 | 27°39'43 | 24°12 | 6°36 | 14° 9 | 16°14 | 27°32 | 26°51 | 2°16 | 2°45 | 7°33 | 2°14 | 2°39 | 24°16 | 8°46 | W18 |
| T 19 | 11 47 0 | 28°39'11 | 6♏49 | 8°10 | 14°53 | 16°59 | 27°37 | 26°57 | 2°17 | 2°47 | 7°32 | 2°14 | 2°35 | 24°23 | 8°41 | T 19 |
| F 20 | 11 50 57 | 29°38'38 | 19°10 | 9°46 | 15°37 | 17°44 | 27°42 | 27° 4 | 2°17 | 2°49 | 7°31 | 2°15 | 2°32 | 24°30 | 8°37 | F 20 |
| S 21 | 11 54 54 | 0♈38'02 | 1♐18 | 11°23 | 16°23 | 18°29 | 27°46 | 27°10 | 2°18 | 2°52 | 7°30 | 2°15 | 2°29 | 24°36 | 8°33 | S 21 |
| S 22 | 11 58 50 | 1°37'25 | 13°17 | 13° 1 | 17°10 | 19°14 | 27°51 | 27°17 | 2°19 | 2°54 | 7°30 | 2°15 | 2°26 | 24°43 | 8°29 | S 22 |
| M23 | 12 2 47 | 2°36'47 | 25°11 | 14°41 | 17°57 | 19°58 | 27°55 | 27°23 | 2°19 | 2°56 | 7°29 | 2°15 | 2°23 | 24°50 | 8°24 | M23 |
| T 24 | 12 6 43 | 3°36'06 | 7♑ 5 | 16°22 | 18°45 | 20°43 | 27°59 | 27°29 | 2°20 | 2°58 | 7°28 | 2°15 | 2°20 | 24°56 | 8°20 | T 24 |
| W25 | 12 10 40 | 4°35'24 | 19° 2 | 18° 4 | 19°34 | 21°28 | 28° 3 | 27°36 | 2°21 | 3° 1 | 7°27 | 2°15 | 2°16 | 25° 3 | 8°16 | W25 |
| T 26 | 12 14 36 | 5°34'40 | 1♒ 8 | 19°48 | 20°24 | 22°13 | 28° 7 | 27°42 | 2°21 | 3° 3 | 7°27 | 2°15 | 2°13 | 25°10 | 8°12 | T 26 |
| F 27 | 12 18 33 | 6°33'54 | 13°27 | 21°33 | 21°14 | 22°58 | 28°10 | 27°48 | 2°22 | 3° 5 | 7°26 | 2°16 | 2°10 | 25°17 | 8° 8 | F 27 |
| S 28 | 12 22 29 | 7°33'06 | 26° 2 | 23°19 | 22° 5 | 23°42 | 28°14 | 27°54 | 2°23 | 3° 8 | 7°26 | 2°16 | 2° 7 | 25°23 | 8° 5 | S 28 |
| S 29 | 12 26 26 | 8°32'16 | 8♓56 | 25° 7 | 22°57 | 24°27 | 28°17 | 28° 0 | 2°24 | 3°10 | 7°25 | 2°17 | 2° 4 | 25°30 | 8° 1 | S 29 |
| M30 | 12 30 23 | 9°31'24 | 22°10 | 26°56 | 23°50 | 25°11 | 28°20 | 28° 6 | 2°25 | 3°12 | 7°24 | 2°17 | 2° 0 | 25°37 | 7°57 | M30 |
| T 31 | 12 34 19 | 10♈30'30 | 5♈44 | 28♓47 | 24♒43 | 25♈56 | 28♐23 | 28♒12 | 2♋26 | 3♈14 | 7♌24 | 2°R17 | 1♎57 | 25♐44 | 7♍54 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 7s33 | 8s39 | 2n45 | 17s21 | 0s38 | 13s 3 | 6n11 | 0n50 | 0s33 | 22s56 | 0n29 | 14s23 | 1s13 | 23n46 | 0n18 | 0s27 | 1s25 | 24n58 | 6n52 | 0s55 | 1s25 | 18s13 | 2n25 | 5s49 |
| M 2 | 7 11 | 4 51 | 1 40 | 17 10 | 0 47 | 13 7 | 6 2 | 1 9 | 0 32 | 22 56 | 0 29 | 14 21 | 1 13 | 23 46 | 0 18 | 0 27 | 1 25 | 24 58 | 6 52 | 0 54 | 1 23 | 18 13 | 2 27 | 5 49 |
| T 3 | 6 48 | 0 45 | 0 29 | 16 58 | 0 56 | 13 10 | 5 53 | 1 27 | 0 31 | 22 56 | 0 29 | 14 19 | 1 13 | 23 46 | 0 18 | 0 26 | 1 25 | 24 58 | 6 52 | 0 54 | 1 22 | 18 13 | 2 29 | 5 48 |
| W 4 | 6 25 | 3n28 | 0s45 | 16 44 | 1 4 | 13 14 | 5 44 | 1 46 | 0 31 | 22 56 | 0 29 | 14 16 | 1 13 | 23 46 | 0 18 | 0 25 | 1 25 | 24 59 | 6 52 | 0 54 | 1 21 | 18 14 | 2 31 | 5 48 |
| T 5 | 6 2 | 7 33 | 1 58 | 16 29 | 1 11 | 13 16 | 5 35 | 2 5 | 0 30 | 22 57 | 0 29 | 14 14 | 1 13 | 23 46 | 0 18 | 0 24 | 1 25 | 24 59 | 6 52 | 0 54 | 1 20 | 18 14 | 2 33 | 5 48 |
| F 6 | 5 38 | 11 16 | 3 5 | 16 13 | 1 19 | 13 18 | 5 26 | 2 24 | 0 29 | 22 57 | 0 29 | 14 12 | 1 14 | 23 46 | 0 18 | 0 23 | 1 25 | 24 59 | 6 52 | 0 55 | 1 18 | 18 14 | 2 35 | 5 47 |
| S 7 | 5 15 | 14 24 | 4 1 | 15 55 | 1 26 | 13 20 | 5 17 | 2 42 | 0 29 | 22 57 | 0 29 | 14 10 | 1 14 | 23 46 | 0 18 | 0 22 | 1 25 | 24 59 | 6 52 | 0 55 | 1 17 | 18 14 | 2 37 | 5 47 |
| S 8 | 4 52 | 16 41 | 4 44 | 15 36 | 1 32 | 13 22 | 5 8 | 3 1 | 0 28 | 22 57 | 0 29 | 14 7 | 1 14 | 23 46 | 0 18 | 0 21 | 1 25 | 25 0 | 6 52 | 0 55 | 1 16 | 18 14 | 2 39 | 5 47 |
| M 9 | 4 28 | 17 58 | 5 9 | 15 15 | 1 38 | 13 23 | 4 59 | 3 19 | 0 27 | 22 57 | 0 29 | 14 5 | 1 14 | 23 46 | 0 18 | 0 20 | 1 25 | 25 0 | 6 52 | 0 56 | 1 15 | 18 14 | 2 41 | 5 46 |
| T 10 | 4 5 | 18 8 | 5 16 | 14 53 | 1 44 | 13 23 | 4 49 | 3 38 | 0 27 | 22 58 | 0 29 | 14 3 | 1 14 | 23 46 | 0 18 | 0 19 | 1 25 | 25 0 | 6 52 | 0 55 | 1 13 | 18 15 | 2 43 | 5 46 |
| W11 | 3 41 | 17 10 | 5 4 | 14 30 | 1 49 | 13 23 | 4 40 | 3 56 | 0 26 | 22 58 | 0 29 | 14 1 | 1 14 | 23 46 | 0 18 | 0 19 | 1 25 | 25 0 | 6 52 | 0 55 | 1 12 | 18 15 | 2 45 | 5 46 |
| T 12 | 3 18 | 15 8 | 4 33 | 14 6 | 1 54 | 13 22 | 4 31 | 4 15 | 0 25 | 22 58 | 0 29 | 13 58 | 1 14 | 23 46 | 0 18 | 0 18 | 1 25 | 25 1 | 6 52 | 0 54 | 1 11 | 18 15 | 2 48 | 5 45 |
| F 13 | 2 54 | 12 12 | 3 45 | 13 40 | 1 59 | 13 21 | 4 22 | 4 33 | 0 25 | 22 58 | 0 29 | 13 56 | 1 14 | 23 46 | 0 18 | 0 17 | 1 25 | 25 1 | 6 51 | 0 54 | 1 9 | 18 15 | 2 50 | 5 45 |
| S 14 | 2 31 | 8 36 | 2 45 | 13 13 | 2 3 | 13 20 | 4 13 | 4 51 | 0 24 | 22 58 | 0 29 | 13 54 | 1 14 | 23 46 | 0 18 | 0 16 | 1 25 | 25 1 | 6 51 | 0 54 | 1 8 | 18 15 | 2 52 | 5 44 |
| S 15 | 2 7 | 4 35 | 1 36 | 12 44 | 2 6 | 13 17 | 4 4 | 5 10 | 0 23 | 22 58 | 0 29 | 13 52 | 1 15 | 23 46 | 0 18 | 0 15 | 1 25 | 25 1 | 6 51 | 0 53 | 1 7 | 18 15 | 2 54 | 5 44 |
| M16 | 1 43 | 0 24 | 0 23 | 12 14 | 2 10 | 13 15 | 3 55 | 5 28 | 0 23 | 22 58 | 0 29 | 13 50 | 1 15 | 23 46 | 0 18 | 0 14 | 1 25 | 25 1 | 6 51 | 0 53 | 1 6 | 18 16 | 2 56 | 5 43 |
| T 17 | 1 20 | 3s43 | 0n50 | 11 43 | 2 12 | 13 12 | 3 47 | 5 46 | 0 22 | 22 59 | 0 28 | 13 48 | 1 15 | 23 46 | 0 18 | 0 13 | 1 25 | 25 1 | 6 51 | 0 53 | 1 4 | 18 16 | 2 58 | 5 43 |
| W18 | 0 56 | 7 33 | 1 59 | 11 11 | 2 15 | 13 8 | 3 38 | 6 4 | 0 21 | 22 59 | 0 28 | 13 45 | 1 15 | 23 45 | 0 18 | 0 12 | 1 25 | 25 2 | 6 51 | 0 53 | 1 3 | 18 16 | 3 0 | 5 43 |
| T 19 | 0 32 | 10 58 | 3 0 | 10 38 | 2 16 | 13 4 | 3 29 | 6 22 | 0 21 | 22 59 | 0 28 | 13 43 | 1 15 | 23 45 | 0 18 | 0 11 | 1 25 | 25 2 | 6 51 | 0 53 | 1 2 | 18 16 | 3 2 | 5 42 |
| F 20 | 0 9 | 13 49 | 3 52 | 10 3 | 2 18 | 12 59 | 3 20 | 6 40 | 0 20 | 22 59 | 0 28 | 13 41 | 1 15 | 23 45 | 0 18 | 0 11 | 1 25 | 25 2 | 6 51 | 0 54 | 1 1 | 18 16 | 3 4 | 5 42 |
| S 21 | 0n15 | 16 1 | 4 32 | 9 27 | 2 19 | 12 54 | 3 12 | 6 57 | 0 19 | 22 59 | 0 28 | 13 39 | 1 15 | 23 45 | 0 18 | 0 10 | 1 25 | 25 2 | 6 51 | 0 54 | 0 59 | 18 16 | 3 6 | 5 41 |
| S 22 | 0 39 | 17 28 | 5 0 | 8 50 | 2 19 | 12 48 | 3 3 | 7 15 | 0 19 | 22 59 | 0 28 | 13 37 | 1 15 | 23 45 | 0 18 | 0 9 | 1 25 | 25 2 | 6 51 | 0 54 | 0 58 | 18 17 | 3 8 | 5 40 |
| M23 | 1 2 | 18 9 | 5 15 | 8 11 | 2 19 | 12 42 | 2 55 | 7 33 | 0 18 | 22 59 | 0 28 | 13 35 | 1 16 | 23 45 | 0 18 | 0 8 | 1 25 | 25 2 | 6 51 | 0 54 | 0 57 | 18 17 | 3 10 | 5 40 |
| T 24 | 1 26 | 18 2 | 5 16 | 7 31 | 2 19 | 12 35 | 2 47 | 7 50 | 0 17 | 22 59 | 0 28 | 13 33 | 1 16 | 23 45 | 0 18 | 0 7 | 1 25 | 25 2 | 6 51 | 0 54 | 0 56 | 18 17 | 3 12 | 5 39 |
| W25 | 1 50 | 17 6 | 5 4 | 6 51 | 2 18 | 12 28 | 2 39 | 8 8 | 0 17 | 22 59 | 0 28 | 13 31 | 1 16 | 23 45 | 0 18 | 0 6 | 1 25 | 25 2 | 6 51 | 0 54 | 0 54 | 18 17 | 3 14 | 5 39 |
| T 26 | 2 13 | 15 25 | 4 38 | 6 9 | 2 17 | 12 20 | 2 31 | 8 25 | 0 16 | 22 59 | 0 28 | 13 29 | 1 16 | 23 45 | 0 18 | 0 5 | 1 25 | 25 2 | 6 50 | 0 54 | 0 53 | 18 17 | 3 16 | 5 38 |
| F 27 | 2 37 | 13 0 | 3 59 | 5 25 | 2 15 | 12 11 | 2 23 | 8 42 | 0 15 | 23 0 | 0 28 | 13 27 | 1 16 | 23 45 | 0 18 | 0 4 | 1 25 | 25 3 | 6 50 | 0 54 | 0 52 | 18 17 | 3 18 | 5 38 |
| S 28 | 3 0 | 9 55 | 3 8 | 4 41 | 2 12 | 12 3 | 2 15 | 8 59 | 0 15 | 23 0 | 0 28 | 13 25 | 1 16 | 23 45 | 0 18 | 0 3 | 1 25 | 25 3 | 6 50 | 0 54 | 0 51 | 18 17 | 3 20 | 5 37 |
| S 29 | 3 23 | 6 17 | 2 6 | 3 55 | 2 10 | 11 53 | 2 7 | 9 16 | 0 14 | 23 0 | 0 28 | 13 23 | 1 16 | 23 45 | 0 18 | 0 2 | 1 25 | 25 3 | 6 50 | 0 54 | 0 49 | 18 17 | 3 22 | 5 36 |
| M30 | 3 47 | 2 16 | 0 56 | 3 9 | 2 6 | 11 43 | 1 59 | 9 33 | 0 13 | 23 0 | 0 28 | 13 21 | 1 16 | 23 45 | 0 18 | 0 2 | 1 25 | 25 3 | 6 50 | 0 55 | 0 48 | 18 18 | 3 24 | 5 36 |
| T 31 | 4n10 | 1n59 | 0s19 | 2s21 | 2s 2 | 11s33 | 1n52 | 9n50 | 0s13 | 23s 0 | 0n28 | 13s19 | 1s17 | 23n45 | 0n18 | 0s 1 | 1s25 | 25n 3 | 6n50 | 0s55 | 0s47 | 18s18 | 3n26 | 5s35 |

Julian Day Number = 2341666.5, Delta T = 14.58 sec
Ecliptic obliquity = 23°28'33, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'27, Lahiri = 19°39'27Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## APRIL 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 12 38 16 | 11♈29'35 | 19♈37 | 0♈39 | 25♒36 | 26♈40 | 28♐26 | 28♒18 | 2♋27 | 3♈17 | 7°R23 | 2°R17 | 1♎54 | 25♐50 | 7°R50 | W 1 |
| T 2 | 12 42 12 | 12°28'37 | 3♉44 | 2°33 | 26°31 | 27°25 | 28°28 | 28°24 | 2°29 | 3°19 | 7♌23 | 2♎16 | 1°51 | 25°57 | 7♍47 | T 2 |
| F 3 | 12 46 9 | 13°27'37 | 18° 3 | 4°28 | 27°25 | 28° 9 | 28°30 | 28°30 | 2°30 | 3°21 | 7°23 | 2°15 | 1°48 | 26° 4 | 7°43 | F 3 |
| S 4 | 12 50 5 | 14°26'35 | 2♊27 | 6°24 | 28°21 | 28°53 | 28°33 | 28°36 | 2°31 | 3°23 | 7°22 | 2°13 | 1°45 | 26°10 | 7°40 | S 4 |
| S 5 | 12 54 2 | 15°25'31 | 16°52 | 8°22 | 29°16 | 29°38 | 28°34 | 28°42 | 2°33 | 3°26 | 7°22 | 2°12 | 1°41 | 26°17 | 7°37 | S 5 |
| M 6 | 12 57 58 | 16°24'24 | 1♋14 | 10°21 | 0♓13 | 0♉22 | 28°36 | 28°47 | 2°34 | 3°28 | 7°21 | 2°11 | 1°38 | 26°24 | 7°34 | M 6 |
| T 7 | 13 1 55 | 17°23'15 | 15°28 | 12°21 | 1° 9 | 1° 6 | 28°38 | 28°53 | 2°35 | 3°30 | 7°21 | 2°D10 | 1°35 | 26°31 | 7°31 | T 7 |
| W 8 | 13 5 52 | 18°22'04 | 29°33 | 14°23 | 2° 7 | 1°50 | 28°39 | 28°58 | 2°37 | 3°32 | 7°21 | 2°11 | 1°32 | 26°37 | 7°28 | W 8 |
| T 9 | 13 9 48 | 19°20'51 | 13♌27 | 16°26 | 3° 4 | 2°34 | 28°40 | 29° 4 | 2°38 | 3°34 | 7°20 | 2°12 | 1°29 | 26°44 | 7°25 | T 9 |
| F 10 | 13 13 45 | 20°19'35 | 27° 9 | 18°30 | 4° 2 | 3°18 | 28°41 | 29° 9 | 2°40 | 3°37 | 7°20 | 2°13 | 1°26 | 26°51 | 7°22 | F 10 |
| S 11 | 13 17 41 | 21°18'17 | 10♍39 | 20°35 | 5° 1 | 4° 2 | 28°42 | 29°15 | 2°42 | 3°39 | 7°20 | 2°14 | 1°22 | 26°58 | 7°20 | S 11 |
| S 12 | 13 21 38 | 22°16'56 | 23°56 | 22°41 | 6° 0 | 4°46 | 28°43 | 29°20 | 2°43 | 3°41 | 7°20 | 2°15 | 1°19 | 27° 4 | 7°17 | S 12 |
| M13 | 13 25 34 | 23°15'34 | 7♎ 0 | 24°48 | 6°59 | 5°30 | 28°43 | 29°25 | 2°45 | 3°43 | 7°20 | 2°R15 | 1°16 | 27°11 | 7°15 | M13 |
| T 14 | 13 29 31 | 24°14'09 | 19°52 | 26°55 | 7°58 | 6°14 | 28°44 | 29°30 | 2°47 | 3°45 | 7°19 | 2°14 | 1°13 | 27°18 | 7°12 | T 14 |
| W15 | 13 33 27 | 25°12'43 | 2♏31 | 29° 2 | 8°58 | 6°57 | 28°R44 | 29°36 | 2°48 | 3°47 | 7°19 | 2°12 | 1°10 | 27°24 | 7°10 | W15 |
| T 16 | 13 37 24 | 26°11'15 | 14°57 | 1♑10 | 9°59 | 7°41 | 28°44 | 29°41 | 2°50 | 3°50 | 7°19 | 2° 9 | 1° 6 | 27°31 | 7° 8 | T 16 |
| F 17 | 13 41 20 | 27° 9'45 | 27°12 | 3°17 | 10°59 | 8°25 | 28°43 | 29°46 | 2°52 | 3°52 | 7°19 | 2° 5 | 1° 3 | 27°38 | 7° 6 | F 17 |
| S 18 | 13 45 17 | 28° 8'13 | 9♐18 | 5°24 | 12° 0 | 9° 8 | 28°43 | 29°51 | 2°54 | 3°54 | 7°19 | 2° 1 | 1° 0 | 27°45 | 7° 4 | S 18 |
| S 19 | 13 49 14 | 29° 6'39 | 21°16 | 7°30 | 13° 2 | 9°52 | 28°42 | 29°55 | 2°56 | 3°56 | 7°D19 | 1°56 | 0°57 | 27°51 | 7° 2 | S 19 |
| M20 | 13 53 10 | 0♑ 5'04 | 3♑10 | 9°35 | 14° 3 | 10°35 | 28°41 | 0♓ 0 | 2°58 | 3°58 | 7°19 | 1°53 | 0°54 | 27°58 | 7° 1 | M20 |
| T 21 | 13 57 7 | 1° 3'27 | 15° 3 | 11°38 | 15° 5 | 11°19 | 28°40 | 0° 5 | 3° 0 | 4° 0 | 7°19 | 1°50 | 0°51 | 28° 5 | 6°59 | T 21 |
| W22 | 14 1 3 | 2° 1'49 | 26°59 | 13°40 | 16° 7 | 12° 2 | 28°39 | 0° 9 | 3° 2 | 4° 2 | 7°19 | 1°D49 | 0°47 | 28°11 | 6°57 | W22 |
| T 23 | 14 5 0 | 3° 0'09 | 9♒ 3 | 15°39 | 17°10 | 12°46 | 28°38 | 0°14 | 3° 5 | 4° 4 | 7°19 | 1°49 | 0°44 | 28°18 | 6°56 | T 23 |
| F 24 | 14 8 56 | 3°58'27 | 21°20 | 17°37 | 18°12 | 13°29 | 28°36 | 0°19 | 3° 7 | 4° 6 | 7°19 | 1°50 | 0°41 | 28°25 | 6°55 | F 24 |
| S 25 | 14 12 53 | 4°56'44 | 3♓54 | 19°31 | 19°15 | 14°12 | 28°34 | 0°23 | 3° 9 | 4° 8 | 7°19 | 1°52 | 0°38 | 28°32 | 6°54 | S 25 |
| S 26 | 14 16 49 | 5°55'00 | 16°50 | 21°23 | 20°18 | 14°55 | 28°32 | 0°27 | 3°11 | 4°10 | 7°20 | 1°53 | 0°35 | 28°38 | 6°53 | S 26 |
| M27 | 14 20 46 | 6°53'13 | 0♈10 | 23°12 | 21°22 | 15°39 | 28°30 | 0°32 | 3°14 | 4°12 | 7°20 | 1°R54 | 0°31 | 28°45 | 6°52 | M27 |
| T 28 | 14 24 43 | 7°51'26 | 13°55 | 24°57 | 22°26 | 16°22 | 28°28 | 0°36 | 3°16 | 4°14 | 7°20 | 1°54 | 0°28 | 28°52 | 6°51 | T 28 |
| W29 | 14 28 39 | 8°49'36 | 28° 5 | 26°39 | 23°29 | 17° 5 | 28°25 | 0°40 | 3°18 | 4°16 | 7°20 | 1°51 | 0°25 | 28°59 | 6°50 | W29 |
| T 30 | 14 32 36 | 9♉47'45 | 12♉35 | 28♉18 | 24♓34 | 17♉48 | 28♐23 | 0♓44 | 3♋21 | 4♈18 | 7♌21 | 1♎47 | 0♎22 | 29♐ 5 | 6♍50 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| W 1 | 4n33 | 6n13 | 1s35 | 1s33 | 1s58 | 11s22 | 1n44 | 10n 7 | 0s12 | 23s 0 | 0n28 | 13s17 | 1s17 | 23n45 | 0n18 | 0n 0 | 1s25 | 25n 3 | 6n50 | 0s55 | 0s45 | 18s18 | 3n28 | 5s35 | W 1 |
| T 2 | 4 56 | 10 11 | 2 46 | 0 43 | 1 53 | 11 11 | 1 37 | 10 24 | 0 11 | 23 0 | 0 28 | 13 15 | 1 17 | 23 45 | 0 18 | 0 1 | 1 25 | 25 3 | 6 50 | 0 54 | 0 44 | 18 18 | 3 30 | 5 34 | T 2 |
| F 3 | 5 19 | 13 36 | 3 47 | 0n 8 | 1 48 | 10 59 | 1 29 | 10 40 | 0 11 | 23 0 | 0 28 | 13 13 | 1 17 | 23 45 | 0 18 | 0 2 | 1 25 | 25 3 | 6 50 | 0 54 | 0 43 | 18 18 | 3 32 | 5 33 | F 3 |
| S 4 | 5 42 | 16 12 | 4 35 | 0 59 | 1 42 | 10 47 | 1 22 | 10 56 | 0 10 | 23 0 | 0 28 | 13 11 | 1 17 | 23 45 | 0 18 | 0 3 | 1 25 | 25 3 | 6 50 | 0 53 | 0 42 | 18 18 | 3 34 | 5 33 | S 4 |
| S 5 | 6 5 | 17 46 | 5 5 | 1 52 | 1 35 | 10 34 | 1 15 | 11 13 | 0 9 | 23 0 | 0 28 | 13 9 | 1 17 | 23 45 | 0 18 | 0 4 | 1 25 | 25 3 | 6 50 | 0 53 | 0 40 | 18 18 | 3 35 | 5 32 | S 5 |
| M 6 | 6 28 | 18 12 | 5 16 | 2 45 | 1 28 | 10 21 | 1 8 | 11 29 | 0 9 | 23 0 | 0 28 | 13 7 | 1 18 | 23 45 | 0 18 | 0 5 | 1 25 | 25 3 | 6 49 | 0 52 | 0 39 | 18 18 | 3 37 | 5 31 | M 6 |
| T 7 | 6 50 | 17 29 | 5 8 | 3 39 | 1 21 | 10 7 | 1 2 | 11 45 | 0 8 | 23 0 | 0 28 | 13 6 | 1 18 | 23 45 | 0 18 | 0 5 | 1 25 | 25 3 | 6 49 | 0 52 | 0 38 | 18 18 | 3 39 | 5 30 | T 7 |
| W 8 | 7 13 | 15 42 | 4 41 | 4 34 | 1 13 | 9 53 | 0 55 | 12 1 | 0 7 | 23 0 | 0 28 | 13 4 | 1 18 | 23 45 | 0 18 | 0 6 | 1 25 | 25 3 | 6 49 | 0 52 | 0 37 | 18 18 | 3 41 | 5 30 | W 8 |
| T 9 | 7 35 | 13 0 | 3 58 | 5 29 | 1 5 | 9 39 | 0 48 | 12 17 | 0 7 | 23 0 | 0 28 | 13 2 | 1 18 | 23 45 | 0 18 | 0 7 | 1 25 | 25 3 | 6 49 | 0 52 | 0 35 | 18 19 | 3 42 | 5 29 | T 9 |
| F 10 | 7 57 | 9 38 | 3 2 | 6 24 | 0 56 | 9 24 | 0 42 | 12 32 | 0 6 | 23 0 | 0 28 | 13 0 | 1 18 | 23 45 | 0 18 | 0 8 | 1 25 | 25 3 | 6 49 | 0 53 | 0 34 | 18 19 | 3 44 | 5 28 | F 10 |
| S 11 | 8 19 | 5 47 | 1 56 | 7 20 | 0 46 | 9 8 | 0 35 | 12 48 | 0 5 | 23 0 | 0 28 | 12 59 | 1 18 | 23 45 | 0 18 | 0 9 | 1 25 | 25 3 | 6 49 | 0 53 | 0 33 | 18 19 | 3 46 | 5 28 | S 11 |
| S 12 | 8 41 | 1 43 | 0 46 | 8 16 | 0 37 | 8 52 | 0 29 | 13 3 | 0 5 | 23 0 | 0 28 | 12 57 | 1 18 | 23 45 | 0 18 | 0 10 | 1 25 | 25 3 | 6 49 | 0 54 | 0 32 | 18 19 | 3 47 | 5 27 | S 12 |
| M13 | 9 3 | 2s23 | 0n26 | 9 12 | 0 27 | 8 36 | 0 23 | 13 19 | 0 4 | 23 0 | 0 28 | 12 55 | 1 19 | 23 45 | 0 18 | 0 11 | 1 25 | 25 3 | 6 49 | 0 54 | 0 30 | 18 19 | 3 49 | 5 26 | M13 |
| T 14 | 9 25 | 6 18 | 1 35 | 10 8 | 0 17 | 8 20 | 0 17 | 13 34 | 0 3 | 23 0 | 0 28 | 12 53 | 1 19 | 23 45 | 0 18 | 0 11 | 1 25 | 25 3 | 6 49 | 0 53 | 0 29 | 18 19 | 3 50 | 5 25 | T 14 |
| W15 | 9 46 | 9 53 | 2 39 | 11 3 | 0 6 | 8 3 | 0 11 | 13 49 | 0 3 | 23 0 | 0 28 | 12 52 | 1 19 | 23 45 | 0 18 | 0 12 | 1 25 | 25 3 | 6 48 | 0 53 | 0 28 | 18 19 | 3 52 | 5 25 | W15 |
| T 16 | 10 8 | 12 57 | 3 33 | 11 58 | 0n 5 | 7 45 | 0 6 | 14 4 | 0 2 | 23 0 | 0 28 | 12 50 | 1 19 | 23 45 | 0 18 | 0 13 | 1 25 | 25 2 | 6 48 | 0 51 | 0 26 | 18 19 | 3 53 | 5 24 | T 16 |
| F 17 | 10 29 | 15 23 | 4 17 | 12 52 | 0 15 | 7 28 | 0s 0 | 14 19 | 0 1 | 23 0 | 0 28 | 12 49 | 1 19 | 23 45 | 0 18 | 0 14 | 1 25 | 25 2 | 6 48 | 0 50 | 0 25 | 18 19 | 3 55 | 5 23 | F 17 |
| S 18 | 10 50 | 17 7 | 4 49 | 13 45 | 0 26 | 7 9 | 0 6 | 14 33 | 0 1 | 23 1 | 0 28 | 12 47 | 1 19 | 23 45 | 0 18 | 0 15 | 1 25 | 25 2 | 6 48 | 0 48 | 0 24 | 18 19 | 3 56 | 5 22 | S 18 |
| S 19 | 11 11 | 18 4 | 5 8 | 14 37 | 0 37 | 6 51 | 0 11 | 14 48 | 0 0 | 23 1 | 0 28 | 12 46 | 1 20 | 23 44 | 0 18 | 0 16 | 1 25 | 25 2 | 6 48 | 0 46 | 0 23 | 18 19 | 3 58 | 5 22 | S 19 |
| M20 | 11 31 | 18 13 | 5 13 | 15 28 | 0 48 | 6 32 | 0 16 | 15 2 | 0n 1 | 23 1 | 0 28 | 12 44 | 1 20 | 23 44 | 0 18 | 0 16 | 1 25 | 25 2 | 6 48 | 0 45 | 0 21 | 18 19 | 3 59 | 5 21 | M20 |
| T 21 | 11 52 | 17 35 | 5 5 | 16 16 | 0 59 | 6 13 | 0 21 | 15 16 | 0 1 | 23 1 | 0 28 | 12 42 | 1 20 | 23 44 | 0 18 | 0 17 | 1 25 | 25 2 | 6 48 | 0 44 | 0 20 | 18 19 | 4 0 | 5 20 | T 21 |
| W22 | 12 12 | 16 9 | 4 44 | 17 4 | 1 9 | 5 53 | 0 26 | 15 30 | 0 2 | 23 1 | 0 28 | 12 41 | 1 20 | 23 44 | 0 18 | 0 18 | 1 25 | 25 2 | 6 48 | 0 43 | 0 19 | 18 19 | 4 2 | 5 19 | W22 |
| T 23 | 12 32 | 14 0 | 4 10 | 17 49 | 1 19 | 5 34 | 0 31 | 15 44 | 0 2 | 23 1 | 0 27 | 12 40 | 1 20 | 23 44 | 0 18 | 0 19 | 1 26 | 25 2 | 6 48 | 0 44 | 0 18 | 18 19 | 4 3 | 5 18 | T 23 |
| F 24 | 12 52 | 11 12 | 3 24 | 18 31 | 1 28 | 5 14 | 0 36 | 15 58 | 0 3 | 23 1 | 0 27 | 12 38 | 1 21 | 23 44 | 0 18 | 0 20 | 1 26 | 25 2 | 6 47 | 0 44 | 0 16 | 18 20 | 4 4 | 5 18 | F 24 |
| S 25 | 13 11 | 7 48 | 2 27 | 19 12 | 1 38 | 4 53 | 0 41 | 16 11 | 0 4 | 23 1 | 0 27 | 12 37 | 1 21 | 23 44 | 0 18 | 0 20 | 1 26 | 25 1 | 6 47 | 0 45 | 0 15 | 18 20 | 4 5 | 5 17 | S 25 |
| S 26 | 13 31 | 3 57 | 1 21 | 19 50 | 1 46 | 4 32 | 0 45 | 16 25 | 0 4 | 23 1 | 0 27 | 12 35 | 1 21 | 23 44 | 0 18 | 0 21 | 1 26 | 25 1 | 6 47 | 0 45 | 0 14 | 18 20 | 4 6 | 5 16 | S 26 |
| M27 | 13 50 | 0n13 | 0 9 | 20 26 | 1 54 | 4 12 | 0 50 | 16 38 | 0 5 | 23 1 | 0 27 | 12 34 | 1 21 | 23 44 | 0 18 | 0 22 | 1 26 | 25 1 | 6 47 | 0 45 | 0 13 | 18 20 | 4 7 | 5 15 | M27 |
| T 28 | 14 9 | 4 30 | 1s 5 | 21 0 | 2 1 | 3 50 | 0 54 | 16 51 | 0 6 | 23 1 | 0 27 | 12 33 | 1 21 | 23 44 | 0 18 | 0 23 | 1 26 | 25 1 | 6 47 | 0 45 | 0 11 | 18 20 | 4 8 | 5 14 | T 28 |
| W29 | 14 28 | 8 40 | 2 18 | 21 31 | 2 8 | 3 29 | 0 58 | 17 4 | 0 6 | 23 1 | 0 27 | 12 31 | 1 21 | 23 44 | 0 18 | 0 23 | 1 26 | 25 1 | 6 47 | 0 44 | 0 10 | 18 20 | 4 9 | 5 14 | W29 |
| T 30 | 14n46 | 12n25 | 3s23 | 21n59 | 2n14 | 3s 7 | 1s 2 | 17n16 | 0n 7 | 23s 1 | 0n27 | 12s30 | 1s22 | 23n44 | 0n18 | 0n24 | 1s26 | 25n 1 | 6n47 | 0s43 | 0s 9 | 18s20 | 4n10 | 5s13 | T 30 |

Julian Day Number = 2341697.5, Delta T = 14.55 sec
Ecliptic obliquity = 23°28'34, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'31, Lahiri = 19°39'32Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## MAY 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 14 36 32 | 10♉45'52 | 27♉20 | 29♉53 | 25♓38 | 18♉31 | 28°R20 | 0♓48 | 3♋23 | 4♈20 | 7♌21 | 1°R42 | 0♎19 | 29♐12 | 6°R49 | F 1 |
| S 2 | 14 40 29 | 11°43'58 | 12♊12 | 1♊24 | 26°42 | 19°14 | 28♐17 | 0°52 | 3°26 | 4°22 | 7°21 | 1♎36 | 0°16 | 29°19 | 6♍49 | S 2 |
| S 3 | 14 44 25 | 12°42'02 | 27° 2 | 2°51 | 27°47 | 19°56 | 28°14 | 0°55 | 3°28 | 4°24 | 7°22 | 1°30 | 0°12 | 29°25 | 6°48 | S 3 |
| M 4 | 14 48 22 | 13°40'04 | 11♋43 | 4°14 | 28°52 | 20°39 | 28°10 | 0°59 | 3°31 | 4°26 | 7°22 | 1°26 | 0° 9 | 29°32 | 6°48 | M 4 |
| T 5 | 14 52 18 | 14°38'04 | 26° 9 | 5°33 | 29°57 | 21°22 | 28° 7 | 1° 3 | 3°34 | 4°28 | 7°22 | 1°22 | 0° 6 | 29°39 | 6°D48 | T 5 |
| W 6 | 14 56 15 | 15°36'02 | 10♌17 | 6°49 | 1♈ 2 | 22° 5 | 28° 3 | 1° 6 | 3°36 | 4°29 | 7°23 | 1°D21 | 0° 3 | 29°46 | 6°48 | W 6 |
| T 7 | 15 0 12 | 16°33'58 | 24° 5 | 8° 0 | 2° 8 | 22°47 | 27°59 | 1°10 | 3°39 | 4°31 | 7°23 | 1°21 | 29♍59 | 29°52 | 6°49 | T 7 |
| F 8 | 15 4 8 | 17°31'53 | 7♍35 | 9° 6 | 3°13 | 23°30 | 27°55 | 1°13 | 3°42 | 4°33 | 7°24 | 1°22 | 29°57 | 29°59 | 6°49 | F 8 |
| S 9 | 15 8 5 | 18°29'45 | 20°47 | 10° 9 | 4°19 | 24°13 | 27°51 | 1°16 | 3°44 | 4°35 | 7°24 | 1°23 | 29°53 | 0♑ 6 | 6°49 | S 9 |
| S 10 | 15 12 1 | 19°27'36 | 3♎44 | 11° 7 | 5°25 | 24°55 | 27°46 | 1°20 | 3°47 | 4°37 | 7°25 | 1°R24 | 29°50 | 0°12 | 6°50 | S 10 |
| M11 | 15 15 58 | 20°25'25 | 16°28 | 12° 1 | 6°31 | 25°37 | 27°42 | 1°23 | 3°50 | 4°38 | 7°25 | 1°22 | 29°47 | 0°19 | 6°51 | M11 |
| T 12 | 15 19 54 | 21°23'12 | 29° 0 | 12°50 | 7°37 | 26°20 | 27°37 | 1°26 | 3°53 | 4°40 | 7°26 | 1°19 | 29°44 | 0°26 | 6°51 | T 12 |
| W13 | 15 23 51 | 22°20'58 | 11♏23 | 13°35 | 8°43 | 27° 2 | 27°32 | 1°29 | 3°56 | 4°42 | 7°27 | 1°14 | 29°41 | 0°33 | 6°52 | W13 |
| T 14 | 15 27 47 | 23°18'43 | 23°37 | 14°15 | 9°50 | 27°45 | 27°27 | 1°31 | 3°59 | 4°43 | 7°27 | 1° 6 | 29°37 | 0°39 | 6°53 | T 14 |
| F 15 | 15 31 44 | 24°16'26 | 5♐43 | 14°51 | 10°57 | 28°27 | 27°22 | 1°34 | 4° 2 | 4°45 | 7°28 | 0°57 | 29°34 | 0°46 | 6°54 | F 15 |
| S 16 | 15 35 41 | 25°14'08 | 17°43 | 15°22 | 12° 3 | 29° 9 | 27°17 | 1°37 | 4° 5 | 4°47 | 7°29 | 0°46 | 29°31 | 0°53 | 6°56 | S 16 |
| S 17 | 15 39 37 | 26°11'48 | 29°38 | 15°48 | 13°10 | 29°51 | 27°11 | 1°39 | 4° 8 | 4°48 | 7°29 | 0°36 | 29°28 | 1° 0 | 6°57 | S 17 |
| M18 | 15 43 34 | 27° 9'28 | 11♑31 | 16° 9 | 14°17 | 0♊33 | 27° 6 | 1°42 | 4°11 | 4°50 | 7°30 | 0°27 | 29°25 | 1° 6 | 6°58 | M18 |
| T 19 | 15 47 30 | 28° 7'06 | 23°23 | 16°26 | 15°24 | 1°15 | 27° 0 | 1°44 | 4°14 | 4°51 | 7°31 | 0°20 | 29°22 | 1°13 | 7° 0 | T 19 |
| W20 | 15 51 27 | 29° 4'43 | 5♒18 | 16°37 | 16°32 | 1°57 | 26°54 | 1°47 | 4°17 | 4°53 | 7°32 | 0°15 | 29°18 | 1°20 | 7° 2 | W20 |
| T 21 | 15 55 23 | 0♊ 2'20 | 17°21 | 16°44 | 17°39 | 2°39 | 26°48 | 1°49 | 4°20 | 4°54 | 7°33 | 0°12 | 29°15 | 1°26 | 7° 4 | T 21 |
| F 22 | 15 59 20 | 0°59'55 | 29°35 | 16°R47 | 18°47 | 3°21 | 26°42 | 1°51 | 4°23 | 4°56 | 7°33 | 0°D11 | 29°12 | 1°33 | 7° 5 | F 22 |
| S 23 | 16 3 16 | 1°57'29 | 12♓ 6 | 16°44 | 19°54 | 4° 3 | 26°36 | 1°53 | 4°26 | 4°57 | 7°34 | 0°11 | 29° 9 | 1°40 | 7° 7 | S 23 |
| S 24 | 16 7 13 | 2°55'03 | 24°58 | 16°38 | 21° 2 | 4°45 | 26°29 | 1°55 | 4°29 | 4°59 | 7°35 | 0°R12 | 29° 6 | 1°47 | 7°10 | S 24 |
| M25 | 16 11 10 | 3°52'35 | 8♈16 | 16°27 | 22°10 | 5°27 | 26°23 | 1°57 | 4°33 | 5° 0 | 7°36 | 0°12 | 29° 3 | 1°53 | 7°12 | M25 |
| T 26 | 16 15 6 | 4°50'07 | 22° 2 | 16°11 | 23°18 | 6° 8 | 26°16 | 1°58 | 4°36 | 5° 1 | 7°37 | 0°10 | 28°59 | 2° 0 | 7°14 | T 26 |
| W27 | 16 19 3 | 5°47'38 | 6♉17 | 15°53 | 24°26 | 6°50 | 26°10 | 2° 0 | 4°39 | 5° 3 | 7°38 | 0° 6 | 28°56 | 2° 7 | 7°17 | W27 |
| T 28 | 16 22 59 | 6°45'08 | 20°57 | 15°30 | 25°34 | 7°32 | 26° 3 | 2° 1 | 4°42 | 5° 4 | 7°39 | 29♍59 | 28°53 | 2°14 | 7°19 | T 28 |
| F 29 | 16 26 56 | 7°42'37 | 5♊57 | 15° 5 | 26°42 | 8°13 | 25°56 | 2° 3 | 4°46 | 5° 5 | 7°40 | 29°50 | 28°50 | 2°20 | 7°22 | F 29 |
| S 30 | 16 30 52 | 8°40'06 | 21° 8 | 14°37 | 27°51 | 8°55 | 25°49 | 2° 4 | 4°49 | 5° 6 | 7°41 | 29°41 | 28°47 | 2°27 | 7°25 | S 30 |
| S 31 | 16 34 49 | 9♊37'33 | 6♋19 | 14♊ 7 | 28♈59 | 9♊36 | 25♐42 | 2♓ 5 | 4♋52 | 5♈ 8 | 7♌42 | 29♍31 | 28♍43 | 2♑34 | 7♍28 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 15n 5 | 15n26 | 4s16 | 22n25 | 2n19 | 2s45 | 1s 6 | 17n29 | 0n 8 | 23s 1 | 0n27 | 12s29 | 1s22 | 23n44 | 0n18 | 0n25 | 1s26 | 25n 0 | 6n47 | 0s41 | 0s 7 | 18s20 | 4n11 | 5s12 | F 1 |
| S 2 | 15 23 | 17 28 | 4 52 | 22 48 | 2 23 | 2 23 | 1 10 | 17 41 | 0 8 | 23 1 | 0 27 | 12 28 | 1 22 | 23 44 | 0 18 | 0 26 | 1 26 | 25 0 | 6 46 | 0 38 | 0 6 | 18 20 | 4 12 | 5 11 | S 2 |
| S 3 | 15 40 | 18 18 | 5 9 | 23 9 | 2 27 | 2 1 | 1 14 | 17 54 | 0 9 | 23 1 | 0 27 | 12 27 | 1 22 | 23 44 | 0 18 | 0 26 | 1 26 | 25 0 | 6 46 | 0 36 | 0 5 | 18 20 | 4 13 | 5 10 | S 3 |
| M 4 | 15 58 | 17 54 | 5 5 | 23 28 | 2 29 | 1 38 | 1 17 | 18 6 | 0 9 | 23 1 | 0 27 | 12 25 | 1 22 | 23 44 | 0 18 | 0 27 | 1 26 | 25 0 | 6 46 | 0 34 | 0 4 | 18 20 | 4 14 | 5 9 | M 4 |
| T 5 | 16 15 | 16 21 | 4 41 | 23 44 | 2 31 | 1 15 | 1 21 | 18 18 | 0 10 | 23 1 | 0 27 | 12 24 | 1 23 | 23 43 | 0 18 | 0 28 | 1 26 | 24 59 | 6 46 | 0 33 | 0 2 | 18 20 | 4 15 | 5 9 | T 5 |
| W 6 | 16 32 | 13 49 | 4 1 | 23 58 | 2 31 | 0 52 | 1 24 | 18 29 | 0 11 | 23 1 | 0 27 | 12 23 | 1 23 | 23 43 | 0 18 | 0 28 | 1 26 | 24 59 | 6 46 | 0 32 | 0 1 | 18 20 | 4 15 | 5 8 | W 6 |
| T 7 | 16 49 | 10 33 | 3 8 | 24 10 | 2 31 | 0 29 | 1 27 | 18 41 | 0 11 | 23 1 | 0 27 | 12 22 | 1 23 | 23 43 | 0 18 | 0 29 | 1 26 | 24 59 | 6 46 | 0 32 | 0n 0 | 18 20 | 4 16 | 5 7 | T 7 |
| F 8 | 17 5 | 6 48 | 2 5 | 24 19 | 2 30 | 0 6 | 1 30 | 18 52 | 0 12 | 23 1 | 0 27 | 12 21 | 1 23 | 23 43 | 0 18 | 0 30 | 1 26 | 24 59 | 6 46 | 0 33 | 0 1 | 18 20 | 4 17 | 5 6 | F 8 |
| S 9 | 17 21 | 2 47 | 0 57 | 24 27 | 2 28 | 0n17 | 1 33 | 19 3 | 0 13 | 23 1 | 0 27 | 12 20 | 1 23 | 23 43 | 0 18 | 0 30 | 1 26 | 24 59 | 6 46 | 0 33 | 0 3 | 18 20 | 4 17 | 5 5 | S 9 |
| S 10 | 17 37 | 1s18 | 0n13 | 24 32 | 2 25 | 0 41 | 1 36 | 19 14 | 0 13 | 23 1 | 0 27 | 12 19 | 1 24 | 23 43 | 0 18 | 0 31 | 1 26 | 24 58 | 6 46 | 0 33 | 0 4 | 18 20 | 4 18 | 5 4 | S 10 |
| M11 | 17 53 | 5 15 | 1 20 | 24 36 | 2 21 | 1 5 | 1 39 | 19 25 | 0 14 | 23 1 | 0 26 | 12 18 | 1 24 | 23 43 | 0 18 | 0 32 | 1 26 | 24 58 | 6 45 | 0 33 | 0 5 | 18 20 | 4 19 | 5 4 | M11 |
| T 12 | 18 8 | 8 54 | 2 23 | 24 37 | 2 16 | 1 28 | 1 42 | 19 36 | 0 14 | 23 1 | 0 26 | 12 17 | 1 24 | 23 43 | 0 18 | 0 32 | 1 26 | 24 58 | 6 45 | 0 32 | 0 6 | 18 20 | 4 19 | 5 3 | T 12 |
| W13 | 18 23 | 12 8 | 3 18 | 24 37 | 2 10 | 1 52 | 1 44 | 19 46 | 0 15 | 23 1 | 0 26 | 12 17 | 1 24 | 23 43 | 0 18 | 0 33 | 1 26 | 24 58 | 6 45 | 0 29 | 0 8 | 18 20 | 4 19 | 5 2 | W13 |
| T 14 | 18 38 | 14 47 | 4 3 | 24 35 | 2 3 | 2 16 | 1 46 | 19 56 | 0 16 | 23 1 | 0 26 | 12 16 | 1 24 | 23 43 | 0 18 | 0 34 | 1 26 | 24 57 | 6 45 | 0 26 | 0 9 | 18 20 | 4 20 | 5 1 | T 14 |
| F 15 | 18 52 | 16 45 | 4 36 | 24 31 | 1 55 | 2 40 | 1 49 | 20 6 | 0 16 | 23 1 | 0 26 | 12 15 | 1 25 | 23 43 | 0 18 | 0 34 | 1 26 | 24 57 | 6 45 | 0 23 | 0 10 | 18 20 | 4 20 | 5 0 | F 15 |
| S 16 | 19 6 | 17 59 | 4 57 | 24 25 | 1 46 | 3 4 | 1 51 | 20 16 | 0 17 | 23 1 | 0 26 | 12 14 | 1 25 | 23 43 | 0 18 | 0 35 | 1 26 | 24 57 | 6 45 | 0 18 | 0 12 | 18 20 | 4 21 | 4 59 | S 16 |
| S 17 | 19 20 | 18 24 | 5 5 | 24 18 | 1 36 | 3 29 | 1 53 | 20 26 | 0 17 | 23 1 | 0 26 | 12 14 | 1 25 | 23 42 | 0 18 | 0 35 | 1 26 | 24 56 | 6 45 | 0 14 | 0 13 | 18 20 | 4 21 | 4 59 | S 17 |
| M18 | 19 33 | 18 0 | 4 59 | 24 9 | 1 25 | 3 53 | 1 55 | 20 35 | 0 18 | 23 1 | 0 26 | 12 13 | 1 25 | 23 42 | 0 18 | 0 36 | 1 26 | 24 56 | 6 45 | 0 11 | 0 14 | 18 20 | 4 21 | 4 58 | M18 |
| T 19 | 19 46 | 16 50 | 4 41 | 23 59 | 1 13 | 4 17 | 1 56 | 20 45 | 0 19 | 23 1 | 0 26 | 12 12 | 1 25 | 23 42 | 0 18 | 0 37 | 1 26 | 24 56 | 6 45 | 0 8 | 0 15 | 18 20 | 4 21 | 4 57 | T 19 |
| W20 | 19 59 | 14 55 | 4 10 | 23 48 | 1 0 | 4 41 | 1 58 | 20 54 | 0 19 | 23 1 | 0 26 | 12 12 | 1 26 | 23 42 | 0 18 | 0 37 | 1 27 | 24 55 | 6 45 | 0 6 | 0 17 | 18 20 | 4 21 | 4 56 | W20 |
| T 21 | 20 11 | 12 21 | 3 28 | 23 35 | 0 46 | 5 6 | 2 0 | 21 3 | 0 20 | 23 1 | 0 26 | 12 11 | 1 26 | 23 42 | 0 18 | 0 38 | 1 27 | 24 55 | 6 44 | 0 5 | 0 18 | 18 20 | 4 22 | 4 55 | T 21 |
| F 22 | 20 23 | 9 12 | 2 36 | 23 21 | 0 32 | 5 30 | 2 1 | 21 11 | 0 20 | 23 0 | 0 26 | 12 10 | 1 26 | 23 42 | 0 18 | 0 38 | 1 27 | 24 55 | 6 44 | 0 4 | 0 19 | 18 20 | 4 22 | 4 54 | F 22 |
| S 23 | 20 35 | 5 34 | 1 35 | 23 6 | 0 17 | 5 54 | 2 3 | 21 20 | 0 21 | 23 0 | 0 26 | 12 10 | 1 26 | 23 42 | 0 18 | 0 39 | 1 27 | 24 55 | 6 44 | 0 5 | 0 20 | 18 20 | 4 22 | 4 54 | S 23 |
| S 24 | 20 46 | 1 34 | 0 28 | 22 49 | 0 1 | 6 19 | 2 4 | 21 28 | 0 21 | 23 0 | 0 25 | 12 9 | 1 27 | 23 42 | 0 18 | 0 39 | 1 27 | 24 54 | 6 44 | 0 5 | 0 22 | 18 19 | 4 22 | 4 53 | S 24 |
| M25 | 20 57 | 2n38 | 0s43 | 22 32 | 0s15 | 6 43 | 2 5 | 21 36 | 0 22 | 23 0 | 0 25 | 12 9 | 1 27 | 23 42 | 0 18 | 0 40 | 1 27 | 24 54 | 6 44 | 0 5 | 0 23 | 18 19 | 4 22 | 4 52 | M25 |
| T 26 | 21 8 | 6 50 | 1 54 | 22 13 | 0 32 | 7 7 | 2 6 | 21 44 | 0 23 | 23 0 | 0 25 | 12 8 | 1 27 | 23 42 | 0 18 | 0 40 | 1 27 | 24 54 | 6 44 | 0 4 | 0 24 | 18 19 | 4 21 | 4 51 | T 26 |
| W27 | 21 18 | 10 48 | 3 0 | 21 54 | 0 49 | 7 31 | 2 7 | 21 52 | 0 23 | 23 0 | 0 25 | 12 8 | 1 27 | 23 41 | 0 18 | 0 41 | 1 27 | 24 53 | 6 44 | 0 2 | 0 25 | 18 19 | 4 21 | 4 50 | W27 |
| T 28 | 21 28 | 14 14 | 3 56 | 21 35 | 1 7 | 7 55 | 2 8 | 21 59 | 0 24 | 23 0 | 0 25 | 12 8 | 1 27 | 23 41 | 0 18 | 0 41 | 1 27 | 24 53 | 6 44 | 0n 0 | 0 27 | 18 19 | 4 21 | 4 50 | T 28 |
| F 29 | 21 38 | 16 47 | 4 37 | 21 15 | 1 24 | 8 19 | 2 8 | 22 7 | 0 24 | 23 0 | 0 25 | 12 7 | 1 28 | 23 41 | 0 18 | 0 42 | 1 27 | 24 52 | 6 44 | 0 4 | 0 28 | 18 19 | 4 21 | 4 49 | F 29 |
| S 30 | 21 47 | 18 12 | 4 59 | 20 54 | 1 41 | 8 43 | 2 9 | 22 14 | 0 25 | 23 0 | 0 25 | 12 7 | 1 28 | 23 41 | 0 18 | 0 42 | 1 27 | 24 52 | 6 44 | 0 8 | 0 29 | 18 19 | 4 21 | 4 48 | S 30 |
| S 31 | 21n56 | 18n20 | 5s 0 | 20n34 | 1s58 | 9n 7 | 2s 9 | 22n21 | 0n25 | 23s 0 | 0n25 | 12s 7 | 1s28 | 23n41 | 0n18 | 0n43 | 1s27 | 24n52 | 6n44 | 0n12 | 0n30 | 18s19 | 4n20 | 4s47 | S 31 |

Julian Day Number = 2341727.5, Delta T = 14.52 sec
Ecliptic obliquity = 23°28'33, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'35, Lahiri = 19°39'36Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## JUNE 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 16 38 45 | 10♊34'59 | 21♋20 | 13°R35 | 0♉ 8 | 10♊18 | 25°R35 | 2♓ 7 | 4♋56 | 5♈ 9 | 7♌43 | 29°R22 | 28♍40 | 2♏40 | 7♍31 | M 1 |
| T 2 | 16 42 42 | 11°32'24 | 6♌ 2 | 13♊ 2 | 1°16 | 10°59 | 25♐28 | 2° 8 | 4°59 | 5°10 | 7°44 | 29♍16 | 28°37 | 2°47 | 7°34 | T 2 |
| W 3 | 16 46 39 | 12°29'48 | 20°21 | 12°28 | 2°25 | 11°41 | 25°21 | 2° 9 | 5° 3 | 5°11 | 7°45 | 29°12 | 28°34 | 2°54 | 7°37 | W 3 |
| T 4 | 16 50 35 | 13°27'11 | 4♍13 | 11°55 | 3°34 | 12°22 | 25°13 | 2° 9 | 5° 6 | 5°12 | 7°46 | 29°11 | 28°31 | 3° 1 | 7°40 | T 4 |
| F 5 | 16 54 32 | 14°24'32 | 17°41 | 11°22 | 4°43 | 13° 3 | 25° 6 | 2°10 | 5° 9 | 5°13 | 7°48 | 29°D10 | 28°28 | 3° 7 | 7°44 | F 5 |
| S 6 | 16 58 28 | 15°21'53 | 0♎47 | 10°50 | 5°52 | 13°44 | 24°59 | 2°11 | 5°13 | 5°14 | 7°49 | 29°R10 | 28°24 | 3°14 | 7°47 | S 6 |
| S 7 | 17 2 25 | 16°19'12 | 13°33 | 10°20 | 7° 1 | 14°26 | 24°51 | 2°11 | 5°16 | 5°15 | 7°50 | 29°10 | 28°21 | 3°21 | 7°51 | S 7 |
| M 8 | 17 6 21 | 17°16'31 | 26° 4 | 9°53 | 8°10 | 15° 7 | 24°44 | 2°12 | 5°20 | 5°16 | 7°51 | 29° 7 | 28°18 | 3°27 | 7°55 | M 8 |
| T 9 | 17 10 18 | 18°13'48 | 8♏24 | 9°27 | 9°19 | 15°48 | 24°36 | 2°12 | 5°23 | 5°17 | 7°52 | 29° 2 | 28°15 | 3°34 | 7°58 | T 9 |
| W10 | 17 14 14 | 19°11'05 | 20°34 | 9° 5 | 10°28 | 16°29 | 24°28 | 2°12 | 5°27 | 5°18 | 7°54 | 28°54 | 28°12 | 3°41 | 8° 2 | W10 |
| T 11 | 17 18 11 | 20° 8'21 | 2♐37 | 8°47 | 11°38 | 17°10 | 24°21 | 2°13 | 5°30 | 5°19 | 7°55 | 28°44 | 28° 9 | 3°48 | 8° 6 | T 11 |
| F 12 | 17 22 8 | 21° 5'37 | 14°36 | 8°32 | 12°47 | 17°51 | 24°13 | 2°R13 | 5°34 | 5°20 | 7°56 | 28°31 | 28° 5 | 3°54 | 8°10 | F 12 |
| S 13 | 17 26 4 | 22° 2'52 | 26°31 | 8°21 | 13°57 | 18°32 | 24° 6 | 2°13 | 5°37 | 5°21 | 7°58 | 28°17 | 28° 2 | 4° 1 | 8°15 | S 13 |
| S 14 | 17 30 1 | 23° 0'06 | 8♑24 | 8°15 | 15° 6 | 19°13 | 23°58 | 2°13 | 5°41 | 5°22 | 7°59 | 28° 4 | 27°59 | 4° 8 | 8°19 | S 14 |
| M15 | 17 33 57 | 23°57'20 | 20°16 | 8°D13 | 16°16 | 19°53 | 23°50 | 2°12 | 5°44 | 5°23 | 8° 0 | 27°51 | 27°56 | 4°15 | 8°23 | M15 |
| T 16 | 17 37 54 | 24°54'33 | 2♒10 | 8°16 | 17°26 | 20°34 | 23°43 | 2°12 | 5°48 | 5°23 | 8° 2 | 27°41 | 27°53 | 4°21 | 8°28 | T 16 |
| W17 | 17 41 50 | 25°51'47 | 14° 7 | 8°23 | 18°35 | 21°15 | 23°35 | 2°12 | 5°52 | 5°24 | 8° 3 | 27°33 | 27°49 | 4°28 | 8°33 | W17 |
| T 18 | 17 45 47 | 26°49'00 | 26°10 | 8°35 | 19°45 | 21°56 | 23°27 | 2°11 | 5°55 | 5°25 | 8° 4 | 27°28 | 27°46 | 4°35 | 8°37 | T 18 |
| F 19 | 17 49 43 | 27°46'13 | 8♓25 | 8°51 | 20°55 | 22°36 | 23°20 | 2°10 | 5°59 | 5°25 | 8° 6 | 27°26 | 27°43 | 4°41 | 8°42 | F 19 |
| S 20 | 17 53 40 | 28°43'25 | 20°54 | 9°13 | 22° 5 | 23°17 | 23°12 | 2°10 | 6° 2 | 5°26 | 8° 7 | 27°25 | 27°40 | 4°48 | 8°47 | S 20 |
| S 21 | 17 57 37 | 29°40'38 | 3♈43 | 9°39 | 23°15 | 23°57 | 23° 4 | 2° 9 | 6° 6 | 5°27 | 8° 9 | 27°25 | 27°37 | 4°55 | 8°52 | S 21 |
| M22 | 18 1 33 | 0♋37'51 | 16°56 | 10° 9 | 24°25 | 24°38 | 22°57 | 2° 8 | 6°10 | 5°27 | 8°10 | 27°25 | 27°34 | 5° 2 | 8°57 | M22 |
| T 23 | 18 5 30 | 1°35'04 | 0♉36 | 10°45 | 25°36 | 25°19 | 22°49 | 2° 7 | 6°13 | 5°28 | 8°12 | 27°22 | 27°30 | 5° 8 | 9° 2 | T 23 |
| W24 | 18 9 26 | 2°32'16 | 14°45 | 11°24 | 26°46 | 25°59 | 22°42 | 2° 6 | 6°17 | 5°28 | 8°13 | 27°18 | 27°27 | 5°15 | 9° 7 | W24 |
| T 25 | 18 13 23 | 3°29'29 | 29°22 | 12° 9 | 27°56 | 26°39 | 22°34 | 2° 5 | 6°20 | 5°29 | 8°15 | 27°11 | 27°24 | 5°22 | 9°13 | T 25 |
| F 26 | 18 17 19 | 4°26'42 | 14♊22 | 12°58 | 29° 7 | 27°20 | 22°27 | 2° 3 | 6°24 | 5°29 | 8°16 | 27° 2 | 27°21 | 5°29 | 9°18 | F 26 |
| S 27 | 18 21 16 | 5°23'56 | 29°38 | 13°51 | 0♊17 | 28° 0 | 22°20 | 2° 2 | 6°28 | 5°29 | 8°18 | 26°51 | 27°18 | 5°35 | 9°23 | S 27 |
| S 28 | 18 25 12 | 6°21'09 | 14♋57 | 14°48 | 1°28 | 28°40 | 22°12 | 2° 0 | 6°31 | 5°30 | 8°19 | 26°41 | 27°15 | 5°42 | 9°29 | S 28 |
| M29 | 18 29 9 | 7°18'22 | 0♌ 8 | 15°50 | 2°38 | 29°21 | 22° 5 | 1°59 | 6°35 | 5°30 | 8°21 | 26°32 | 27°11 | 5°49 | 9°35 | M29 |
| T 30 | 18 33 6 | 8♋15'34 | 15♌ 2 | 16♊56 | 3♊49 | 0♋ 1 | 21♐58 | 1♓57 | 6♋39 | 5♈30 | 8♌22 | 26♍24 | 27♍ 8 | 5♏55 | 9♍40 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22n 4 | 17n10 | 4s41 | 20n14 | 2s15 | 9n31 | 2s10 | 22n27 | 0n26 | 23s 0 | 0n25 | 12s 7 | 1s28 | 23n41 | 0n18 | 0n43 | 1s27 | 24n51 | 6n43 | 0n15 | 0n32 | 18s19 | 4n20 | 4s46 |
| T 2 | 22 12 | 14 52 | 4 3 | 19 54 | 2 31 | 9 54 | 2 10 | 22 34 | 0 27 | 22 59 | 0 24 | 12 7 | 1 28 | 23 41 | 0 18 | 0 43 | 1 27 | 24 51 | 6 43 | 0 17 | 0 33 | 18 19 | 4 19 | 4 46 |
| W 3 | 22 20 | 11 43 | 3 10 | 19 34 | 2 47 | 10 18 | 2 10 | 22 40 | 0 27 | 22 59 | 0 24 | 12 6 | 1 29 | 23 41 | 0 18 | 0 44 | 1 27 | 24 51 | 6 43 | 0 19 | 0 34 | 18 19 | 4 19 | 4 45 |
| T 4 | 22 27 | 7 59 | 2 8 | 19 15 | 3 1 | 10 41 | 2 10 | 22 46 | 0 28 | 22 59 | 0 24 | 12 6 | 1 29 | 23 40 | 0 18 | 0 44 | 1 27 | 24 50 | 6 43 | 0 20 | 0 36 | 18 19 | 4 19 | 4 44 |
| F 5 | 22 34 | 3 57 | 1 1 | 18 58 | 3 15 | 11 4 | 2 10 | 22 52 | 0 28 | 22 59 | 0 24 | 12 6 | 1 29 | 23 40 | 0 18 | 0 45 | 1 27 | 24 50 | 6 43 | 0 20 | 0 37 | 18 19 | 4 18 | 4 43 |
| S 6 | 22 40 | 0s11 | 0n 9 | 18 41 | 3 27 | 11 27 | 2 10 | 22 58 | 0 29 | 22 59 | 0 24 | 12 6 | 1 29 | 23 40 | 0 18 | 0 45 | 1 27 | 24 49 | 6 43 | 0 20 | 0 38 | 18 19 | 4 17 | 4 42 |
| S 7 | 22 46 | 4 12 | 1 15 | 18 26 | 3 39 | 11 50 | 2 10 | 23 3 | 0 29 | 22 59 | 0 24 | 12 6 | 1 30 | 23 40 | 0 18 | 0 45 | 1 27 | 24 49 | 6 43 | 0 20 | 0 39 | 18 19 | 4 17 | 4 42 |
| M 8 | 22 52 | 7 57 | 2 17 | 18 12 | 3 49 | 12 12 | 2 10 | 23 8 | 0 30 | 22 58 | 0 24 | 12 6 | 1 30 | 23 40 | 0 18 | 0 46 | 1 27 | 24 49 | 6 43 | 0 21 | 0 41 | 18 18 | 4 16 | 4 41 |
| T 9 | 22 57 | 11 18 | 3 12 | 17 59 | 3 58 | 12 35 | 2 9 | 23 13 | 0 30 | 22 58 | 0 24 | 12 6 | 1 30 | 23 40 | 0 18 | 0 46 | 1 27 | 24 48 | 6 43 | 0 23 | 0 42 | 18 18 | 4 15 | 4 40 |
| W10 | 23 2 | 14 7 | 3 56 | 17 49 | 4 5 | 12 57 | 2 9 | 23 18 | 0 31 | 22 58 | 0 24 | 12 6 | 1 30 | 23 40 | 0 18 | 0 46 | 1 28 | 24 48 | 6 43 | 0 26 | 0 43 | 18 18 | 4 15 | 4 39 |
| T 11 | 23 7 | 16 18 | 4 30 | 17 40 | 4 11 | 13 19 | 2 8 | 23 23 | 0 31 | 22 58 | 0 23 | 12 7 | 1 30 | 23 39 | 0 18 | 0 47 | 1 28 | 24 47 | 6 43 | 0 30 | 0 44 | 18 18 | 4 14 | 4 39 |
| F 12 | 23 11 | 17 46 | 4 51 | 17 33 | 4 16 | 13 40 | 2 8 | 23 27 | 0 32 | 22 58 | 0 23 | 12 7 | 1 31 | 23 39 | 0 18 | 0 47 | 1 28 | 24 47 | 6 43 | 0 35 | 0 46 | 18 18 | 4 13 | 4 38 |
| S 13 | 23 14 | 18 26 | 5 0 | 17 28 | 4 19 | 14 2 | 2 7 | 23 31 | 0 33 | 22 57 | 0 23 | 12 7 | 1 31 | 23 39 | 0 18 | 0 47 | 1 28 | 24 47 | 6 43 | 0 41 | 0 47 | 18 18 | 4 12 | 4 37 |
| S 14 | 23 17 | 18 18 | 4 55 | 17 25 | 4 21 | 14 23 | 2 6 | 23 35 | 0 33 | 22 57 | 0 23 | 12 7 | 1 31 | 23 39 | 0 18 | 0 47 | 1 28 | 24 46 | 6 43 | 0 46 | 0 48 | 18 18 | 4 11 | 4 36 |
| M15 | 23 20 | 17 22 | 4 38 | 17 24 | 4 22 | 14 44 | 2 5 | 23 39 | 0 34 | 22 57 | 0 23 | 12 8 | 1 31 | 23 39 | 0 18 | 0 48 | 1 28 | 24 46 | 6 42 | 0 51 | 0 49 | 18 18 | 4 10 | 4 36 |
| T 16 | 23 23 | 15 41 | 4 8 | 17 25 | 4 21 | 15 4 | 2 4 | 23 42 | 0 34 | 22 57 | 0 23 | 12 8 | 1 32 | 23 39 | 0 18 | 0 48 | 1 28 | 24 45 | 6 42 | 0 55 | 0 51 | 18 18 | 4 9 | 4 35 |
| W17 | 23 25 | 13 19 | 3 27 | 17 27 | 4 20 | 15 25 | 2 3 | 23 46 | 0 35 | 22 57 | 0 23 | 12 8 | 1 32 | 23 39 | 0 18 | 0 48 | 1 28 | 24 45 | 6 42 | 0 58 | 0 52 | 18 18 | 4 8 | 4 34 |
| T 18 | 23 26 | 10 21 | 2 37 | 17 32 | 4 17 | 15 45 | 2 2 | 23 49 | 0 35 | 22 56 | 0 22 | 12 9 | 1 32 | 23 38 | 0 18 | 0 48 | 1 28 | 24 45 | 6 42 | 1 0 | 0 53 | 18 17 | 4 7 | 4 33 |
| F 19 | 23 27 | 6 54 | 1 39 | 17 38 | 4 13 | 16 4 | 2 1 | 23 52 | 0 36 | 22 56 | 0 22 | 12 9 | 1 32 | 23 38 | 0 18 | 0 49 | 1 28 | 24 44 | 6 42 | 1 1 | 0 55 | 18 17 | 4 6 | 4 33 |
| S 20 | 23 28 | 3 5 | 0 34 | 17 46 | 4 8 | 16 24 | 1 59 | 23 54 | 0 36 | 22 56 | 0 22 | 12 9 | 1 32 | 23 38 | 0 18 | 0 49 | 1 28 | 24 44 | 6 42 | 1 2 | 0 56 | 18 17 | 4 5 | 4 32 |
| S 21 | 23 29 | 0n58 | 0s33 | 17 56 | 4 3 | 16 43 | 1 58 | 23 57 | 0 37 | 22 56 | 0 22 | 12 10 | 1 33 | 23 38 | 0 18 | 0 49 | 1 28 | 24 43 | 6 42 | 1 2 | 0 57 | 18 17 | 4 4 | 4 31 |
| M22 | 23 28 | 5 6 | 1 41 | 18 7 | 3 56 | 17 1 | 1 57 | 23 59 | 0 37 | 22 55 | 0 22 | 12 11 | 1 33 | 23 38 | 0 18 | 0 49 | 1 28 | 24 43 | 6 42 | 1 2 | 0 58 | 18 17 | 4 3 | 4 31 |
| T 23 | 23 28 | 9 7 | 2 46 | 18 19 | 3 49 | 17 20 | 1 55 | 24 1 | 0 38 | 22 55 | 0 22 | 12 11 | 1 33 | 23 38 | 0 18 | 0 49 | 1 28 | 24 42 | 6 42 | 1 3 | 1 0 | 18 17 | 4 1 | 4 30 |
| W24 | 23 27 | 12 45 | 3 42 | 18 33 | 3 40 | 17 37 | 1 53 | 24 3 | 0 38 | 22 55 | 0 22 | 12 12 | 1 33 | 23 37 | 0 18 | 0 49 | 1 28 | 24 42 | 6 42 | 1 4 | 1 1 | 18 17 | 4 0 | 4 29 |
| T 25 | 23 26 | 15 42 | 4 26 | 18 47 | 3 31 | 17 55 | 1 52 | 24 5 | 0 39 | 22 55 | 0 21 | 12 12 | 1 33 | 23 37 | 0 18 | 0 50 | 1 28 | 24 42 | 6 42 | 1 7 | 1 2 | 18 16 | 3 59 | 4 28 |
| F 26 | 23 24 | 17 42 | 4 54 | 19 3 | 3 22 | 18 12 | 1 50 | 24 6 | 0 39 | 22 54 | 0 21 | 12 13 | 1 34 | 23 37 | 0 18 | 0 50 | 1 28 | 24 41 | 6 42 | 1 11 | 1 3 | 18 16 | 3 58 | 4 28 |
| S 27 | 23 22 | 18 28 | 5 0 | 19 20 | 3 12 | 18 29 | 1 48 | 24 7 | 0 40 | 22 54 | 0 21 | 12 14 | 1 34 | 23 37 | 0 18 | 0 50 | 1 28 | 24 41 | 6 42 | 1 15 | 1 5 | 18 16 | 3 56 | 4 27 |
| S 28 | 23 19 | 17 54 | 4 46 | 19 37 | 3 1 | 18 45 | 1 46 | 24 8 | 0 40 | 22 54 | 0 21 | 12 14 | 1 34 | 23 37 | 0 18 | 0 50 | 1 29 | 24 40 | 6 42 | 1 19 | 1 6 | 18 16 | 3 55 | 4 26 |
| M29 | 23 16 | 16 4 | 4 11 | 19 54 | 2 50 | 19 1 | 1 44 | 24 9 | 0 41 | 22 54 | 0 21 | 12 15 | 1 34 | 23 37 | 0 18 | 0 50 | 1 29 | 24 40 | 6 42 | 1 23 | 1 7 | 18 16 | 3 53 | 4 26 |
| T 30 | 23n13 | 13n10 | 3s20 | 20n13 | 2s38 | 19n16 | 1s43 | 24n10 | 0n41 | 22s53 | 0n21 | 12s16 | 1s35 | 23n36 | 0n18 | 0n50 | 1s29 | 24n39 | 6n42 | 1n26 | 1n 8 | 18s16 | 3n52 | 4s25 |

Julian Day Number = 2341758.5, Delta T = 14.49 sec
Ecliptic obliquity = 23°28'32, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'40, Lahiri = 19°39'40Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## JULY 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 18 37 2 | 9♋12'47 | 29♌32 | 18♊ 6 | 4♊59 | 0♋41 | 21°R51 | 1°R55 | 6♋42 | 5♈31 | 8♌24 | 26°R20 | 27♍ 5 | 6♑ 2 | 9♍46 | W 1 |
| T 2 | 18 40 59 | 10° 9'59 | 13♍33 | 19°20 | 6°10 | 1°21 | 21♐44 | 1♓54 | 6°46 | 5°31 | 8°26 | 26♍18 | 27° 2 | 6° 9 | 9°52 | T 2 |
| F 3 | 18 44 55 | 11° 7'11 | 27° 7 | 20°39 | 7°21 | 2° 1 | 21°37 | 1°52 | 6°49 | 5°31 | 8°27 | 26°D17 | 26°59 | 6°16 | 9°58 | F 3 |
| S 4 | 18 48 52 | 12° 4'23 | 10♎14 | 22° 1 | 8°32 | 2°41 | 21°30 | 1°50 | 6°53 | 5°31 | 8°29 | 26°R17 | 26°55 | 6°22 | 10° 4 | S 4 |
| S 5 | 18 52 48 | 13° 1'35 | 22°59 | 23°27 | 9°43 | 3°21 | 21°24 | 1°47 | 6°57 | 5°31 | 8°31 | 26°17 | 26°52 | 6°29 | 10°10 | S 5 |
| M 6 | 18 56 45 | 13°58'46 | 5♏26 | 24°57 | 10°54 | 4° 1 | 21°17 | 1°45 | 7° 0 | 5°31 | 8°32 | 26°15 | 26°49 | 6°36 | 10°16 | M 6 |
| T 7 | 19 0 41 | 14°55'58 | 17°39 | 26°31 | 12° 5 | 4°41 | 21°11 | 1°43 | 7° 4 | 5°32 | 8°34 | 26°11 | 26°46 | 6°42 | 10°23 | T 7 |
| W 8 | 19 4 38 | 15°53'10 | 29°43 | 28° 9 | 13°16 | 5°21 | 21° 4 | 1°41 | 7° 7 | 5°32 | 8°36 | 26° 4 | 26°43 | 6°49 | 10°29 | W 8 |
| T 9 | 19 8 35 | 16°50'21 | 11♐40 | 29°50 | 14°27 | 6° 1 | 20°58 | 1°38 | 7°11 | 5°R32 | 8°37 | 25°55 | 26°40 | 6°56 | 10°35 | T 9 |
| F 10 | 19 12 31 | 17°47'33 | 23°34 | 1♋34 | 15°38 | 6°41 | 20°52 | 1°36 | 7°15 | 5°32 | 8°39 | 25°44 | 26°36 | 7° 3 | 10°42 | F 10 |
| S 11 | 19 16 28 | 18°44'46 | 5♑26 | 3°22 | 16°49 | 7°20 | 20°46 | 1°33 | 7°18 | 5°31 | 8°41 | 25°32 | 26°33 | 7° 9 | 10°48 | S 11 |
| S 12 | 19 20 24 | 19°41'58 | 17°19 | 5°13 | 18° 0 | 8° 0 | 20°40 | 1°30 | 7°22 | 5°31 | 8°42 | 25°20 | 26°30 | 7°16 | 10°55 | S 12 |
| M13 | 19 24 21 | 20°39'11 | 29°14 | 7° 7 | 19°12 | 8°40 | 20°34 | 1°27 | 7°25 | 5°31 | 8°44 | 25° 9 | 26°27 | 7°23 | 11° 2 | M13 |
| T 14 | 19 28 17 | 21°36'24 | 11♒12 | 9° 3 | 20°23 | 9°20 | 20°29 | 1°25 | 7°29 | 5°31 | 8°46 | 24°59 | 26°24 | 7°30 | 11° 8 | T 14 |
| W15 | 19 32 14 | 22°33'38 | 23°16 | 11° 2 | 21°35 | 9°59 | 20°23 | 1°22 | 7°32 | 5°31 | 8°47 | 24°53 | 26°21 | 7°36 | 11°15 | W15 |
| T 16 | 19 36 10 | 23°30'53 | 5♓26 | 13° 3 | 22°46 | 10°39 | 20°18 | 1°19 | 7°36 | 5°31 | 8°49 | 24°48 | 26°17 | 7°43 | 11°22 | T 16 |
| F 17 | 19 40 7 | 24°28'08 | 17°47 | 15° 6 | 23°58 | 11°18 | 20°12 | 1°16 | 7°39 | 5°30 | 8°51 | 24°47 | 26°14 | 7°50 | 11°29 | F 17 |
| S 18 | 19 44 4 | 25°25'24 | 0♈21 | 17°10 | 25° 9 | 11°58 | 20° 7 | 1°12 | 7°43 | 5°30 | 8°53 | 24°D46 | 26°11 | 7°56 | 11°36 | S 18 |
| S 19 | 19 48 0 | 26°22'40 | 13°11 | 19°16 | 26°21 | 12°37 | 20° 2 | 1° 9 | 7°46 | 5°30 | 8°54 | 24°47 | 26° 8 | 8° 3 | 11°43 | S 19 |
| M20 | 19 51 57 | 27°19'58 | 26°22 | 21°22 | 27°33 | 13°17 | 19°58 | 1° 6 | 7°50 | 5°29 | 8°56 | 24°R48 | 26° 5 | 8°10 | 11°50 | M20 |
| T 21 | 19 55 53 | 28°17'17 | 9♉57 | 23°29 | 28°44 | 13°56 | 19°53 | 1° 2 | 7°53 | 5°29 | 8°58 | 24°47 | 26° 1 | 8°17 | 11°57 | T 21 |
| W22 | 19 59 50 | 29°14'36 | 23°57 | 25°36 | 29°56 | 14°36 | 19°49 | 0°59 | 7°57 | 5°29 | 9° 0 | 24°45 | 25°58 | 8°23 | 12° 5 | W22 |
| T 23 | 20 3 46 | 0♌11'57 | 8♊22 | 27°43 | 1♋ 8 | 15°15 | 19°44 | 0°56 | 8° 0 | 5°28 | 9° 1 | 24°40 | 25°55 | 8°30 | 12°12 | T 23 |
| F 24 | 20 7 43 | 1° 9'19 | 23°10 | 29°49 | 2°20 | 15°54 | 19°40 | 0°52 | 8° 4 | 5°28 | 9° 3 | 24°34 | 25°52 | 8°37 | 12°19 | F 24 |
| S 25 | 20 11 39 | 2° 6'42 | 8♋14 | 1♌55 | 3°32 | 16°33 | 19°36 | 0°48 | 8° 7 | 5°27 | 9° 5 | 24°26 | 25°49 | 8°43 | 12°27 | S 25 |
| S 26 | 20 15 36 | 3° 4'05 | 23°24 | 4° 1 | 4°44 | 17°13 | 19°32 | 0°45 | 8°10 | 5°27 | 9° 7 | 24°19 | 25°46 | 8°50 | 12°34 | S 26 |
| M27 | 20 19 33 | 4° 1'30 | 8♌32 | 6° 5 | 5°56 | 17°52 | 19°29 | 0°41 | 8°14 | 5°26 | 9° 9 | 24°12 | 25°42 | 8°57 | 12°42 | M27 |
| T 28 | 20 23 29 | 4°58'55 | 23°26 | 8° 8 | 7° 8 | 18°31 | 19°25 | 0°37 | 8°17 | 5°25 | 9°10 | 24° 7 | 25°39 | 9° 4 | 12°49 | T 28 |
| W29 | 20 27 26 | 5°56'21 | 7♍59 | 10°10 | 8°21 | 19°10 | 19°22 | 0°33 | 8°20 | 5°25 | 9°12 | 24° 4 | 25°36 | 9°10 | 12°57 | W29 |
| T 30 | 20 31 22 | 6°53'48 | 22° 7 | 12°11 | 9°33 | 19°49 | 19°19 | 0°29 | 8°24 | 5°24 | 9°14 | 24°D 2 | 25°33 | 9°17 | 13° 4 | T 30 |
| F 31 | 20 35 19 | 7♌51'15 | 5♎46 | 14♌11 | 10♋45 | 20♋28 | 19♐16 | 0♓25 | 8♋27 | 5♈23 | 9♌16 | 24♍ 3 | 25♍30 | 9♑24 | 13♍12 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 23n 9 | 9n31 | 2s17 | 20n31 | 2s26 | 19n31 | 1s41 | 24n10 | 0n42 | 22s53 | 0n21 | 12s17 | 1s35 | 23n36 | 0n18 | 0n50 | 1s29 | 24n39 | 6n42 | 1n28 | 1n10 | 18s16 | 3n50 | 4s24 |
| T 2 | 23 5 | 5 27 | 1 7 | 20 49 | 2 14 | 19 45 | 1 38 | 24 10 | 0 42 | 22 53 | 0 20 | 12 18 | 1 35 | 23 36 | 0 18 | 0 50 | 1 29 | 24 38 | 6 42 | 1 28 | 1 11 | 18 15 | 3 49 | 4 24 |
| F 3 | 23 1 | 1 13 | 0n 4 | 21 8 | 2 1 | 19 59 | 1 36 | 24 10 | 0 43 | 22 52 | 0 20 | 12 19 | 1 35 | 23 36 | 0 18 | 0 50 | 1 29 | 24 38 | 6 42 | 1 29 | 1 12 | 18 15 | 3 47 | 4 23 |
| S 4 | 22 56 | 2s56 | 1 13 | 21 26 | 1 49 | 20 13 | 1 34 | 24 10 | 0 43 | 22 52 | 0 20 | 12 19 | 1 35 | 23 36 | 0 18 | 0 50 | 1 29 | 24 38 | 6 42 | 1 29 | 1 13 | 18 15 | 3 45 | 4 22 |
| S 5 | 22 50 | 6 50 | 2 17 | 21 43 | 1 36 | 20 26 | 1 32 | 24 10 | 0 44 | 22 52 | 0 20 | 12 20 | 1 36 | 23 36 | 0 18 | 0 50 | 1 29 | 24 37 | 6 42 | 1 29 | 1 15 | 18 15 | 3 44 | 4 22 |
| M 6 | 22 44 | 10 20 | 3 12 | 22 0 | 1 23 | 20 38 | 1 30 | 24 9 | 0 44 | 22 52 | 0 20 | 12 21 | 1 36 | 23 35 | 0 18 | 0 50 | 1 29 | 24 37 | 6 42 | 1 30 | 1 16 | 18 15 | 3 42 | 4 21 |
| T 7 | 22 38 | 13 20 | 3 57 | 22 16 | 1 10 | 20 50 | 1 27 | 24 8 | 0 45 | 22 51 | 0 20 | 12 22 | 1 36 | 23 35 | 0 18 | 0 50 | 1 29 | 24 36 | 6 42 | 1 31 | 1 17 | 18 15 | 3 40 | 4 20 |
| W 8 | 22 32 | 15 42 | 4 31 | 22 31 | 0 57 | 21 1 | 1 25 | 24 7 | 0 45 | 22 51 | 0 19 | 12 23 | 1 36 | 23 35 | 0 18 | 0 50 | 1 29 | 24 36 | 6 42 | 1 34 | 1 19 | 18 14 | 3 38 | 4 20 |
| T 9 | 22 25 | 17 23 | 4 53 | 22 45 | 0 44 | 21 12 | 1 22 | 24 6 | 0 46 | 22 51 | 0 19 | 12 25 | 1 36 | 23 35 | 0 18 | 0 50 | 1 29 | 24 35 | 6 42 | 1 38 | 1 20 | 18 14 | 3 36 | 4 19 |
| F 10 | 22 17 | 18 18 | 5 2 | 22 57 | 0 31 | 21 22 | 1 20 | 24 4 | 0 46 | 22 51 | 0 19 | 12 26 | 1 37 | 23 35 | 0 18 | 0 50 | 1 29 | 24 35 | 6 42 | 1 42 | 1 21 | 18 14 | 3 35 | 4 19 |
| S 11 | 22 10 | 18 25 | 4 58 | 23 7 | 0 19 | 21 32 | 1 18 | 24 3 | 0 47 | 22 50 | 0 19 | 12 27 | 1 37 | 23 34 | 0 18 | 0 50 | 1 29 | 24 34 | 6 42 | 1 47 | 1 22 | 18 14 | 3 33 | 4 18 |
| S 12 | 22 2 | 17 43 | 4 40 | 23 16 | 0 6 | 21 41 | 1 15 | 24 1 | 0 47 | 22 50 | 0 19 | 12 28 | 1 37 | 23 34 | 0 18 | 0 50 | 1 29 | 24 34 | 6 42 | 1 52 | 1 24 | 18 14 | 3 31 | 4 17 |
| M13 | 21 53 | 16 15 | 4 11 | 23 22 | 0n 5 | 21 50 | 1 12 | 23 59 | 0 48 | 22 50 | 0 19 | 12 29 | 1 37 | 23 34 | 0 18 | 0 50 | 1 29 | 24 33 | 6 42 | 1 56 | 1 25 | 18 13 | 3 29 | 4 17 |
| T 14 | 21 44 | 14 4 | 3 30 | 23 27 | 0 17 | 21 58 | 1 10 | 23 57 | 0 48 | 22 50 | 0 18 | 12 30 | 1 37 | 23 34 | 0 18 | 0 50 | 1 29 | 24 33 | 6 42 | 2 0 | 1 26 | 18 13 | 3 27 | 4 16 |
| W15 | 21 35 | 11 16 | 2 40 | 23 29 | 0 28 | 22 5 | 1 7 | 23 54 | 0 48 | 22 49 | 0 18 | 12 31 | 1 37 | 23 34 | 0 18 | 0 49 | 1 29 | 24 33 | 6 42 | 2 2 | 1 27 | 18 13 | 3 25 | 4 16 |
| T 16 | 21 25 | 7 58 | 1 41 | 23 28 | 0 38 | 22 12 | 1 5 | 23 52 | 0 49 | 22 49 | 0 18 | 12 33 | 1 38 | 23 34 | 0 18 | 0 49 | 1 30 | 24 32 | 6 42 | 2 4 | 1 29 | 18 13 | 3 23 | 4 15 |
| F 17 | 21 16 | 4 16 | 0 37 | 23 25 | 0 48 | 22 18 | 1 2 | 23 49 | 0 49 | 22 49 | 0 18 | 12 34 | 1 38 | 23 33 | 0 18 | 0 49 | 1 30 | 24 32 | 6 42 | 2 5 | 1 30 | 18 13 | 3 21 | 4 14 |
| S 18 | 21 5 | 0 19 | 0s30 | 23 19 | 0 57 | 22 24 | 0 59 | 23 46 | 0 50 | 22 49 | 0 18 | 12 35 | 1 38 | 23 33 | 0 18 | 0 49 | 1 30 | 24 31 | 6 42 | 2 5 | 1 31 | 18 12 | 3 19 | 4 14 |
| S 19 | 20 55 | 3n43 | 1 37 | 23 10 | 1 5 | 22 29 | 0 57 | 23 43 | 0 50 | 22 49 | 0 18 | 12 37 | 1 38 | 23 33 | 0 18 | 0 49 | 1 30 | 24 31 | 6 42 | 2 4 | 1 32 | 18 12 | 3 16 | 4 13 |
| M20 | 20 44 | 7 41 | 2 41 | 22 59 | 1 13 | 22 33 | 0 54 | 23 39 | 0 51 | 22 48 | 0 17 | 12 38 | 1 38 | 23 33 | 0 18 | 0 49 | 1 30 | 24 30 | 6 42 | 2 4 | 1 34 | 18 12 | 3 14 | 4 13 |
| T 21 | 20 32 | 11 22 | 3 38 | 22 44 | 1 20 | 22 37 | 0 51 | 23 36 | 0 51 | 22 48 | 0 17 | 12 39 | 1 39 | 23 33 | 0 18 | 0 48 | 1 30 | 24 30 | 6 42 | 2 4 | 1 35 | 18 12 | 3 12 | 4 12 |
| W22 | 20 20 | 14 32 | 4 23 | 22 28 | 1 26 | 22 40 | 0 48 | 23 32 | 0 52 | 22 48 | 0 17 | 12 41 | 1 39 | 23 32 | 0 18 | 0 48 | 1 30 | 24 29 | 6 42 | 2 5 | 1 36 | 18 12 | 3 10 | 4 12 |
| T 23 | 20 8 | 16 54 | 4 54 | 22 8 | 1 31 | 22 43 | 0 45 | 23 28 | 0 52 | 22 48 | 0 17 | 12 42 | 1 39 | 23 32 | 0 18 | 0 48 | 1 30 | 24 29 | 6 42 | 2 7 | 1 37 | 18 11 | 3 8 | 4 11 |
| F 24 | 19 56 | 18 12 | 5 6 | 21 47 | 1 36 | 22 45 | 0 43 | 23 24 | 0 52 | 22 48 | 0 17 | 12 44 | 1 39 | 23 32 | 0 18 | 0 48 | 1 30 | 24 28 | 6 42 | 2 10 | 1 39 | 18 11 | 3 5 | 4 11 |
| S 25 | 19 43 | 18 16 | 4 57 | 21 23 | 1 39 | 22 46 | 0 40 | 23 19 | 0 53 | 22 48 | 0 17 | 12 45 | 1 39 | 23 32 | 0 18 | 0 48 | 1 30 | 24 28 | 6 42 | 2 13 | 1 40 | 18 11 | 3 3 | 4 10 |
| S 26 | 19 30 | 17 2 | 4 28 | 20 56 | 1 42 | 22 46 | 0 37 | 23 15 | 0 53 | 22 47 | 0 16 | 12 46 | 1 39 | 23 32 | 0 18 | 0 47 | 1 30 | 24 28 | 6 42 | 2 16 | 1 41 | 18 11 | 3 1 | 4 10 |
| M27 | 19 17 | 14 37 | 3 40 | 20 28 | 1 44 | 22 46 | 0 34 | 23 10 | 0 54 | 22 47 | 0 16 | 12 48 | 1 40 | 23 31 | 0 18 | 0 47 | 1 30 | 24 27 | 6 42 | 2 19 | 1 43 | 18 10 | 2 58 | 4 9 |
| T 28 | 19 3 | 11 15 | 2 37 | 19 58 | 1 46 | 22 46 | 0 31 | 23 5 | 0 54 | 22 47 | 0 16 | 12 49 | 1 40 | 23 31 | 0 18 | 0 47 | 1 30 | 24 27 | 6 42 | 2 21 | 1 44 | 18 10 | 2 56 | 4 9 |
| W29 | 18 49 | 7 16 | 1 26 | 19 26 | 1 47 | 22 44 | 0 29 | 23 0 | 0 55 | 22 47 | 0 16 | 12 51 | 1 40 | 23 31 | 0 18 | 0 46 | 1 30 | 24 26 | 6 42 | 2 22 | 1 45 | 18 10 | 2 53 | 4 8 |
| T 30 | 18 35 | 2 58 | 0 10 | 18 52 | 1 47 | 22 42 | 0 26 | 22 55 | 0 55 | 22 47 | 0 16 | 12 52 | 1 40 | 23 31 | 0 18 | 0 46 | 1 30 | 24 26 | 6 43 | 2 22 | 1 46 | 18 10 | 2 51 | 4 8 |
| F 31 | 18n20 | 1s20 | 1n 3 | 18n17 | 1n46 | 22n40 | 0s23 | 22n50 | 0n55 | 22s47 | 0n16 | 12s54 | 1s40 | 23n31 | 0n18 | 0n46 | 1s30 | 24n25 | 6n43 | 2n22 | 1n48 | 18s10 | 2n48 | 4s 7 |

Julian Day Number = 2341788.5, Delta T = 14.46 sec
Ecliptic obliquity = 23°28'32, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'44, Lahiri = 19°39'44Greg. Calendar


created from Swiss Ephemeris, Copyright Astrodienst AG [1.5.2023]

## AUGUST 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 20 39 15 | 8♌48'44 | 18♎59 | 16♌ 9 | 11♋57 | 21♋ 7 | 19°R13 | 0°R21 | 8♋30 | 5°R23 | 9♌18 | 24♍ 4 | 25♍26 | 9♉30 | 13♍20 | S 1 |
| S 2 | 20 43 12 | 9°46'13 | 1♏47 | 18° 5 | 13°10 | 21°46 | 19♐10 | 0♓17 | 8°34 | 5♈22 | 9°19 | 24° 5 | 25°23 | 9°37 | 13°28 | S 2 |
| M 3 | 20 47 8 | 10°43'42 | 14°16 | 20° 0 | 14°22 | 22°25 | 19° 8 | 0°13 | 8°37 | 5°21 | 9°21 | 24°R 5 | 25°20 | 9°44 | 13°36 | M 3 |
| T 4 | 20 51 5 | 11°41'13 | 26°29 | 21°54 | 15°35 | 23° 4 | 19° 6 | 0° 9 | 8°40 | 5°20 | 9°23 | 24° 4 | 25°17 | 9°51 | 13°43 | T 4 |
| W 5 | 20 55 2 | 12°38'44 | 8♐31 | 23°46 | 16°47 | 23°43 | 19° 4 | 0° 5 | 8°43 | 5°20 | 9°25 | 24° 1 | 25°14 | 9°57 | 13°51 | W 5 |
| T 6 | 20 58 58 | 13°36'17 | 20°26 | 25°37 | 18° 0 | 24°22 | 19° 2 | 0° 1 | 8°46 | 5°19 | 9°27 | 23°56 | 25°11 | 10° 4 | 13°59 | T 6 |
| F 7 | 21 2 55 | 14°33'50 | 2♑19 | 27°26 | 19°12 | 25° 1 | 19° 0 | 29♒56 | 8°49 | 5°18 | 9°28 | 23°50 | 25° 7 | 10°11 | 14° 7 | F 7 |
| S 8 | 21 6 51 | 15°31'24 | 14°11 | 29°13 | 20°25 | 25°40 | 18°59 | 29°52 | 8°52 | 5°17 | 9°30 | 23°44 | 25° 4 | 10°18 | 14°15 | S 8 |
| S 9 | 21 10 48 | 16°29'00 | 26° 6 | 0♍59 | 21°38 | 26°18 | 18°57 | 29°48 | 8°55 | 5°16 | 9°32 | 23°37 | 25° 1 | 10°24 | 14°24 | S 9 |
| M10 | 21 14 44 | 17°26'36 | 8♒ 7 | 2°44 | 22°51 | 26°57 | 18°56 | 29°43 | 8°59 | 5°15 | 9°34 | 23°30 | 24°58 | 10°31 | 14°32 | M10 |
| T 11 | 21 18 41 | 18°24'14 | 20°13 | 4°27 | 24° 3 | 27°36 | 18°55 | 29°39 | 9° 2 | 5°14 | 9°36 | 23°25 | 24°55 | 10°38 | 14°40 | T 11 |
| W12 | 21 22 37 | 19°21'53 | 2♓28 | 6° 9 | 25°16 | 28°14 | 18°55 | 29°35 | 9° 4 | 5°13 | 9°37 | 23°22 | 24°52 | 10°44 | 14°48 | W12 |
| T 13 | 21 26 34 | 20°19'33 | 14°51 | 7°49 | 26°29 | 28°53 | 18°54 | 29°30 | 9° 7 | 5°12 | 9°39 | 23°20 | 24°48 | 10°51 | 14°56 | T 13 |
| F 14 | 21 30 31 | 21°17'15 | 27°26 | 9°27 | 27°42 | 29°32 | 18°54 | 29°26 | 9°10 | 5°11 | 9°41 | 23°D20 | 24°45 | 10°58 | 15° 5 | F 14 |
| S 15 | 21 34 27 | 22°14'58 | 10♈12 | 11° 5 | 28°55 | 0♌10 | 18°53 | 29°21 | 9°13 | 5°10 | 9°43 | 23°21 | 24°42 | 11° 5 | 15°13 | S 15 |
| S 16 | 21 38 24 | 23°12'43 | 23°13 | 12°40 | 0♌ 8 | 0°49 | 18°D53 | 29°17 | 9°16 | 5° 9 | 9°44 | 23°22 | 24°39 | 11°11 | 15°21 | S 16 |
| M17 | 21 42 20 | 24°10'29 | 6♉31 | 14°15 | 1°21 | 1°27 | 18°54 | 29°12 | 9°19 | 5° 8 | 9°46 | 23°24 | 24°36 | 11°18 | 15°30 | M17 |
| T 18 | 21 46 17 | 25° 8'18 | 20° 6 | 15°48 | 2°35 | 2° 6 | 18°54 | 29° 8 | 9°22 | 5° 6 | 9°48 | 23°R25 | 24°32 | 11°25 | 15°38 | T 18 |
| W19 | 21 50 13 | 26° 6'08 | 4♊ 1 | 17°19 | 3°48 | 2°44 | 18°55 | 29° 3 | 9°24 | 5° 5 | 9°50 | 23°25 | 24°29 | 11°31 | 15°46 | W19 |
| T 20 | 21 54 10 | 27° 4'00 | 18°14 | 18°50 | 5° 1 | 3°23 | 18°55 | 28°59 | 9°27 | 5° 4 | 9°51 | 23°23 | 24°26 | 11°38 | 15°55 | T 20 |
| F 21 | 21 58 6 | 28° 1'53 | 2♋44 | 20°18 | 6°14 | 4° 1 | 18°56 | 28°54 | 9°30 | 5° 3 | 9°53 | 23°21 | 24°23 | 11°45 | 16° 3 | F 21 |
| S 22 | 22 2 3 | 28°59'49 | 17°27 | 21°46 | 7°28 | 4°39 | 18°57 | 28°50 | 9°33 | 5° 1 | 9°55 | 23°18 | 24°20 | 11°52 | 16°12 | S 22 |
| S 23 | 22 6 0 | 29°57'46 | 2♌16 | 23°11 | 8°41 | 5°18 | 18°59 | 28°45 | 9°35 | 5° 0 | 9°56 | 23°15 | 24°17 | 11°58 | 16°20 | S 23 |
| M24 | 22 9 56 | 0♍55'45 | 17° 4 | 24°36 | 9°55 | 5°56 | 19° 0 | 28°40 | 9°38 | 4°59 | 9°58 | 23°12 | 24°13 | 12° 5 | 16°29 | M24 |
| T 25 | 22 13 53 | 1°53'46 | 1♍44 | 25°59 | 11° 8 | 6°34 | 19° 2 | 28°36 | 9°40 | 4°58 | 10° 0 | 23°10 | 24°10 | 12°12 | 16°37 | T 25 |
| W26 | 22 17 49 | 2°51'48 | 16° 9 | 27°20 | 12°22 | 7°13 | 19° 4 | 28°31 | 9°43 | 4°56 | 10° 2 | 23° 9 | 24° 7 | 12°18 | 16°46 | W26 |
| T 27 | 22 21 46 | 3°49'52 | 0♎12 | 28°40 | 13°35 | 7°51 | 19° 6 | 28°27 | 9°45 | 4°55 | 10° 3 | 23°D 9 | 24° 4 | 12°25 | 16°55 | T 27 |
| F 28 | 22 25 42 | 4°47'57 | 13°52 | 29°58 | 14°49 | 8°29 | 19° 8 | 28°22 | 9°48 | 4°54 | 10° 5 | 23° 9 | 24° 1 | 12°32 | 17° 3 | F 28 |
| S 29 | 22 29 39 | 5°46'03 | 27° 8 | 1♎14 | 16° 3 | 9° 7 | 19°10 | 28°18 | 9°50 | 4°52 | 10° 7 | 23°11 | 23°58 | 12°39 | 17°12 | S 29 |
| S 30 | 22 33 35 | 6°44'12 | 10♏ 0 | 2°29 | 17°16 | 9°45 | 19°13 | 28°13 | 9°52 | 4°51 | 10° 8 | 23°12 | 23°54 | 12°45 | 17°21 | S 30 |
| M31 | 22 37 32 | 7♍42'21 | 22♏32 | 3♎42 | 18♌30 | 10♌23 | 19♐16 | 28♒ 9 | 9♋55 | 4♈49 | 10♌10 | 23♍13 | 23♍51 | 12♉52 | 17♍29 | M31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 18n 5 | 5s26 | 2n11 | 17n41 | 1n45 | 22n36 | 0s20 | 22n44 | 0n56 | 22s47 | 0n15 | 12s56 | 1s40 | 23n30 | 0n18 | 0n45 | 1s30 | 24n25 | 6n43 | 2n22 | 1n49 | 18s 9 | 2n46 | 4s 7 |
| S 2 | 17 50 | 9 9 | 3 10 | 17 4 | 1 43 | 22 32 | 0 17 | 22 38 | 0 56 | 22 47 | 0 15 | 12 57 | 1 40 | 23 30 | 0 18 | 0 45 | 1 30 | 24 25 | 6 43 | 2 21 | 1 50 | 18 9 | 2 43 | 4 6 |
| M 3 | 17 34 | 12 21 | 3 58 | 16 26 | 1 41 | 22 28 | 0 14 | 22 32 | 0 57 | 22 47 | 0 15 | 12 59 | 1 41 | 23 30 | 0 18 | 0 45 | 1 30 | 24 24 | 6 43 | 2 21 | 1 51 | 18 9 | 2 41 | 4 6 |
| T 4 | 17 18 | 14 57 | 4 35 | 15 46 | 1 38 | 22 22 | 0 11 | 22 26 | 0 57 | 22 47 | 0 15 | 13 0 | 1 41 | 23 30 | 0 18 | 0 44 | 1 31 | 24 24 | 6 43 | 2 22 | 1 53 | 18 9 | 2 38 | 4 5 |
| W 5 | 17 2 | 16 51 | 4 58 | 15 6 | 1 34 | 22 17 | 0 9 | 22 20 | 0 58 | 22 47 | 0 15 | 13 2 | 1 41 | 23 30 | 0 18 | 0 44 | 1 31 | 24 23 | 6 43 | 2 23 | 1 54 | 18 8 | 2 36 | 4 5 |
| T 6 | 16 46 | 18 0 | 5 9 | 14 25 | 1 31 | 22 10 | 0 6 | 22 14 | 0 58 | 22 47 | 0 15 | 13 4 | 1 41 | 23 30 | 0 18 | 0 44 | 1 31 | 24 23 | 6 43 | 2 25 | 1 55 | 18 8 | 2 33 | 4 4 |
| F 7 | 16 29 | 18 21 | 5 6 | 13 44 | 1 26 | 22 3 | 0 3 | 22 7 | 0 58 | 22 47 | 0 14 | 13 5 | 1 41 | 23 29 | 0 18 | 0 43 | 1 31 | 24 22 | 6 43 | 2 27 | 1 56 | 18 8 | 2 30 | 4 4 |
| S 8 | 16 12 | 17 54 | 4 50 | 13 2 | 1 21 | 21 55 | 0 0 | 22 0 | 0 59 | 22 47 | 0 14 | 13 7 | 1 41 | 23 29 | 0 19 | 0 43 | 1 31 | 24 22 | 6 43 | 2 30 | 1 58 | 18 7 | 2 28 | 4 3 |
| S 9 | 15 55 | 16 40 | 4 22 | 12 20 | 1 16 | 21 46 | 0n 2 | 21 54 | 0 59 | 22 47 | 0 14 | 13 8 | 1 41 | 23 29 | 0 19 | 0 42 | 1 31 | 24 22 | 6 43 | 2 32 | 1 59 | 18 7 | 2 25 | 4 3 |
| M10 | 15 38 | 14 42 | 3 41 | 11 37 | 1 11 | 21 37 | 0 5 | 21 46 | 1 0 | 22 47 | 0 14 | 13 10 | 1 41 | 23 29 | 0 19 | 0 42 | 1 31 | 24 21 | 6 43 | 2 35 | 2 0 | 18 7 | 2 22 | 4 2 |
| T 11 | 15 20 | 12 4 | 2 51 | 10 54 | 1 5 | 21 28 | 0 8 | 21 39 | 1 0 | 22 47 | 0 14 | 13 12 | 1 41 | 23 29 | 0 19 | 0 42 | 1 31 | 24 21 | 6 43 | 2 37 | 2 1 | 18 7 | 2 20 | 4 2 |
| W12 | 15 2 | 8 53 | 1 51 | 10 11 | 0 59 | 21 17 | 0 11 | 21 32 | 1 0 | 22 47 | 0 14 | 13 13 | 1 42 | 23 28 | 0 19 | 0 41 | 1 31 | 24 20 | 6 44 | 2 38 | 2 3 | 18 6 | 2 17 | 4 2 |
| T 13 | 14 44 | 5 16 | 0 46 | 9 28 | 0 52 | 21 6 | 0 13 | 21 24 | 1 1 | 22 47 | 0 13 | 13 15 | 1 42 | 23 28 | 0 19 | 0 41 | 1 31 | 24 20 | 6 44 | 2 39 | 2 4 | 18 6 | 2 14 | 4 1 |
| F 14 | 14 26 | 1 22 | 0s22 | 8 44 | 0 46 | 20 55 | 0 16 | 21 17 | 1 1 | 22 47 | 0 13 | 13 17 | 1 42 | 23 28 | 0 19 | 0 40 | 1 31 | 24 20 | 6 44 | 2 39 | 2 5 | 18 6 | 2 11 | 4 1 |
| S 15 | 14 7 | 2n39 | 1 31 | 8 1 | 0 39 | 20 42 | 0 18 | 21 9 | 1 2 | 22 48 | 0 13 | 13 18 | 1 42 | 23 28 | 0 19 | 0 40 | 1 31 | 24 19 | 6 44 | 2 39 | 2 7 | 18 6 | 2 8 | 4 0 |
| S 16 | 13 48 | 6 37 | 2 36 | 7 18 | 0 31 | 20 30 | 0 21 | 21 1 | 1 2 | 22 48 | 0 13 | 13 20 | 1 42 | 23 28 | 0 19 | 0 39 | 1 31 | 24 19 | 6 44 | 2 38 | 2 8 | 18 5 | 2 6 | 4 0 |
| M17 | 13 29 | 10 20 | 3 35 | 6 35 | 0 24 | 20 16 | 0 24 | 20 53 | 1 2 | 22 48 | 0 13 | 13 22 | 1 42 | 23 28 | 0 19 | 0 39 | 1 31 | 24 19 | 6 44 | 2 38 | 2 9 | 18 5 | 2 3 | 4 0 |
| T 18 | 13 10 | 13 35 | 4 23 | 5 51 | 0 16 | 20 2 | 0 26 | 20 45 | 1 3 | 22 48 | 0 13 | 13 23 | 1 42 | 23 27 | 0 19 | 0 38 | 1 31 | 24 18 | 6 44 | 2 37 | 2 10 | 18 5 | 2 0 | 3 59 |
| W19 | 12 50 | 16 8 | 4 56 | 5 9 | 0 8 | 19 48 | 0 29 | 20 36 | 1 3 | 22 48 | 0 12 | 13 25 | 1 42 | 23 27 | 0 19 | 0 38 | 1 31 | 24 18 | 6 44 | 2 37 | 2 12 | 18 4 | 1 57 | 3 59 |
| T 20 | 12 30 | 17 46 | 5 13 | 4 26 | 0 0 | 19 33 | 0 31 | 20 28 | 1 4 | 22 49 | 0 12 | 13 27 | 1 42 | 23 27 | 0 19 | 0 37 | 1 31 | 24 17 | 6 44 | 2 38 | 2 13 | 18 4 | 1 54 | 3 58 |
| F 21 | 12 11 | 18 17 | 5 10 | 3 44 | 0s 8 | 19 17 | 0 34 | 20 19 | 1 4 | 22 49 | 0 12 | 13 28 | 1 42 | 23 27 | 0 19 | 0 37 | 1 31 | 24 17 | 6 45 | 2 39 | 2 14 | 18 4 | 1 51 | 3 58 |
| S 22 | 11 50 | 17 36 | 4 47 | 3 1 | 0 16 | 19 1 | 0 36 | 20 10 | 1 4 | 22 49 | 0 12 | 13 30 | 1 42 | 23 27 | 0 19 | 0 36 | 1 31 | 24 17 | 6 45 | 2 40 | 2 15 | 18 3 | 1 48 | 3 58 |
| S 23 | 11 30 | 15 43 | 4 4 | 2 20 | 0 25 | 18 44 | 0 38 | 20 1 | 1 5 | 22 49 | 0 12 | 13 32 | 1 43 | 23 26 | 0 19 | 0 36 | 1 31 | 24 16 | 6 45 | 2 41 | 2 17 | 18 3 | 1 45 | 3 57 |
| M24 | 11 10 | 12 47 | 3 6 | 1 38 | 0 33 | 18 27 | 0 41 | 19 52 | 1 5 | 22 50 | 0 12 | 13 33 | 1 43 | 23 26 | 0 19 | 0 35 | 1 31 | 24 16 | 6 45 | 2 42 | 2 18 | 18 3 | 1 42 | 3 57 |
| T 25 | 10 49 | 9 5 | 1 55 | 0 58 | 0 42 | 18 9 | 0 43 | 19 43 | 1 5 | 22 50 | 0 11 | 13 35 | 1 43 | 23 26 | 0 19 | 0 35 | 1 31 | 24 16 | 6 45 | 2 43 | 2 19 | 18 2 | 1 39 | 3 57 |
| W26 | 10 28 | 4 53 | 0 39 | 0 17 | 0 51 | 17 50 | 0 45 | 19 34 | 1 6 | 22 50 | 0 11 | 13 37 | 1 43 | 23 26 | 0 19 | 0 34 | 1 31 | 24 15 | 6 45 | 2 44 | 2 20 | 18 2 | 1 36 | 3 56 |
| T 27 | 10 7 | 0 31 | 0n39 | 0s23 | 0 59 | 17 31 | 0 47 | 19 24 | 1 6 | 22 51 | 0 11 | 13 38 | 1 43 | 23 26 | 0 19 | 0 33 | 1 32 | 24 15 | 6 45 | 2 44 | 2 22 | 18 2 | 1 33 | 3 56 |
| F 28 | 9 46 | 3s46 | 1 52 | 1 2 | 1 8 | 17 12 | 0 49 | 19 14 | 1 7 | 22 51 | 0 11 | 13 40 | 1 43 | 23 26 | 0 19 | 0 33 | 1 32 | 24 15 | 6 46 | 2 43 | 2 23 | 18 2 | 1 30 | 3 56 |
| S 29 | 9 25 | 7 43 | 2 57 | 1 40 | 1 17 | 16 52 | 0 51 | 19 5 | 1 7 | 22 51 | 0 11 | 13 41 | 1 43 | 23 26 | 0 19 | 0 32 | 1 32 | 24 14 | 6 46 | 2 43 | 2 24 | 18 1 | 1 27 | 3 55 |
| S 30 | 9 3 | 11 11 | 3 51 | 2 18 | 1 26 | 16 32 | 0 53 | 18 55 | 1 7 | 22 52 | 0 11 | 13 43 | 1 43 | 23 25 | 0 19 | 0 32 | 1 32 | 24 14 | 6 46 | 2 42 | 2 25 | 18 1 | 1 24 | 3 55 |
| M31 | 8n42 | 14s 3 | 4n32 | 2s56 | 1s35 | 16n11 | 0n55 | 18n45 | 1n 8 | 22s52 | 0n11 | 13s45 | 1s43 | 23n25 | 0n19 | 0n31 | 1s32 | 24n14 | 6n46 | 2n42 | 2n27 | 18s 1 | 1n21 | 3s55 |

Julian Day Number = 2341819.5, Delta T = 14.43 sec
Ecliptic obliquity = 23°28'33, Nutation = - 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'48, Lahiri = 19°39'48Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## SEPTEMBER 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 22 41 29 | 8♍40'33 | 4♐48 | 4♎53 | 19♌44 | 11♌ 1 | 19♐19 | 28°R 5 | 9♋57 | 4°R48 | 10♌11 | 23°R14 | 23♍48 | 12♑59 | 17♍38 | T 1 |
| W 2 | 22 45 25 | 9°38'45 | 16°51 | 6° 3 | 20°58 | 11°39 | 19°22 | 28♒ 0 | 9°59 | 4♈46 | 10°13 | 23♍14 | 23°45 | 13° 5 | 17°47 | W 2 |
| T 3 | 22 49 22 | 10°36'59 | 28°47 | 7°10 | 22°12 | 12°17 | 19°25 | 27°56 | 10° 1 | 4°45 | 10°15 | 23°13 | 23°42 | 13°12 | 17°55 | T 3 |
| F 4 | 22 53 18 | 11°35'15 | 10♑39 | 8°15 | 23°26 | 12°55 | 19°29 | 27°51 | 10° 4 | 4°43 | 10°16 | 23°12 | 23°38 | 13°19 | 18° 4 | F 4 |
| S 5 | 22 57 15 | 12°33'33 | 22°33 | 9°17 | 24°40 | 13°33 | 19°32 | 27°47 | 10° 6 | 4°42 | 10°18 | 23°10 | 23°35 | 13°26 | 18°13 | S 5 |
| S 6 | 23 1 11 | 13°31'51 | 4♒31 | 10°18 | 25°54 | 14°11 | 19°36 | 27°43 | 10° 8 | 4°40 | 10°19 | 23° 9 | 23°32 | 13°32 | 18°22 | S 6 |
| M 7 | 23 5 8 | 14°30'12 | 16°37 | 11°15 | 27° 8 | 14°49 | 19°40 | 27°39 | 10°10 | 4°39 | 10°21 | 23° 8 | 23°29 | 13°39 | 18°30 | M 7 |
| T 8 | 23 9 4 | 15°28'34 | 28°53 | 12°10 | 28°22 | 15°27 | 19°44 | 27°34 | 10°12 | 4°37 | 10°22 | 23° 7 | 23°26 | 13°46 | 18°39 | T 8 |
| W 9 | 23 13 1 | 16°26'58 | 11♓21 | 13° 2 | 29°36 | 16° 5 | 19°49 | 27°30 | 10°14 | 4°36 | 10°24 | 23° 6 | 23°23 | 13°52 | 18°48 | W 9 |
| T 10 | 23 16 57 | 17°25'24 | 24° 2 | 13°51 | 0♍50 | 16°42 | 19°53 | 27°26 | 10°16 | 4°34 | 10°25 | 23°D 6 | 23°19 | 13°59 | 18°57 | T 10 |
| F 11 | 23 20 54 | 18°23'52 | 6♈57 | 14°36 | 2° 4 | 17°20 | 19°58 | 27°22 | 10°17 | 4°33 | 10°27 | 23° 6 | 23°16 | 14° 6 | 19° 5 | F 11 |
| S 12 | 23 24 51 | 19°22'22 | 20° 5 | 15°18 | 3°18 | 17°58 | 20° 3 | 27°18 | 10°19 | 4°31 | 10°28 | 23° 6 | 23°13 | 14°13 | 19°14 | S 12 |
| S 13 | 23 28 47 | 20°20'53 | 3♉27 | 15°56 | 4°32 | 18°35 | 20° 8 | 27°14 | 10°21 | 4°29 | 10°30 | 23° 7 | 23°10 | 14°19 | 19°23 | S 13 |
| M14 | 23 32 44 | 21°19'27 | 17° 1 | 16°30 | 5°47 | 19°13 | 20°13 | 27°10 | 10°23 | 4°28 | 10°31 | 23° 7 | 23° 7 | 14°26 | 19°32 | M14 |
| T 15 | 23 36 40 | 22°18'04 | 0♊48 | 16°59 | 7° 1 | 19°51 | 20°18 | 27° 6 | 10°24 | 4°26 | 10°33 | 23° 7 | 23° 3 | 14°33 | 19°41 | T 15 |
| W16 | 23 40 37 | 23°16'42 | 14°46 | 17°23 | 8°15 | 20°28 | 20°24 | 27° 2 | 10°26 | 4°25 | 10°34 | 23° 7 | 23° 0 | 14°39 | 19°49 | W16 |
| T 17 | 23 44 33 | 24°15'23 | 28°54 | 17°42 | 9°30 | 21° 6 | 20°29 | 26°58 | 10°28 | 4°23 | 10°36 | 23° 7 | 22°57 | 14°46 | 19°58 | T 17 |
| F 18 | 23 48 30 | 25°14'06 | 13♋10 | 17°55 | 10°44 | 21°43 | 20°35 | 26°55 | 10°29 | 4°21 | 10°37 | 23° 7 | 22°54 | 14°53 | 20° 7 | F 18 |
| S 19 | 23 52 26 | 26°12'52 | 27°31 | 18° 2 | 11°59 | 22°21 | 20°41 | 26°51 | 10°31 | 4°20 | 10°38 | 23° 7 | 22°51 | 15° 0 | 20°16 | S 19 |
| S 20 | 23 56 23 | 27°11'39 | 11♌54 | 18°R 3 | 13°13 | 22°58 | 20°47 | 26°47 | 10°32 | 4°18 | 10°40 | 23° 8 | 22°48 | 15° 6 | 20°24 | S 20 |
| M21 | 0 0 20 | 28°10'29 | 26°15 | 17°57 | 14°28 | 23°36 | 20°54 | 26°44 | 10°33 | 4°16 | 10°41 | 23° 8 | 22°44 | 15°13 | 20°33 | M21 |
| T 22 | 0 4 16 | 29° 9'21 | 10♍30 | 17°44 | 15°42 | 24°13 | 21° 0 | 26°40 | 10°35 | 4°15 | 10°42 | 23° 9 | 22°41 | 15°20 | 20°42 | T 22 |
| W23 | 0 8 13 | 0♎ 8'15 | 24°33 | 17°24 | 16°57 | 24°51 | 21° 7 | 26°37 | 10°36 | 4°13 | 10°43 | 23°R 9 | 22°38 | 15°26 | 20°51 | W23 |
| T 24 | 0 12 9 | 1° 7'11 | 8♎21 | 16°56 | 18°12 | 25°28 | 21°13 | 26°34 | 10°37 | 4°11 | 10°45 | 23° 8 | 22°35 | 15°33 | 20°59 | T 24 |
| F 25 | 0 16 6 | 2° 6'09 | 21°52 | 16°21 | 19°26 | 26° 5 | 21°20 | 26°30 | 10°38 | 4°10 | 10°46 | 23° 8 | 22°32 | 15°40 | 21° 8 | F 25 |
| S 26 | 0 20 2 | 3° 5'09 | 5♏ 3 | 15°38 | 20°41 | 26°43 | 21°27 | 26°27 | 10°39 | 4° 8 | 10°47 | 23° 7 | 22°29 | 15°47 | 21°17 | S 26 |
| S 27 | 0 23 59 | 4° 4'11 | 17°54 | 14°49 | 21°56 | 27°20 | 21°35 | 26°24 | 10°40 | 4° 6 | 10°48 | 23° 5 | 22°25 | 15°53 | 21°25 | S 27 |
| M28 | 0 27 55 | 5° 3'15 | 0♐27 | 13°52 | 23°10 | 27°57 | 21°42 | 26°21 | 10°42 | 4° 5 | 10°50 | 23° 4 | 22°22 | 16° 0 | 21°34 | M28 |
| T 29 | 0 31 52 | 6° 2'21 | 12°44 | 12°51 | 24°25 | 28°34 | 21°49 | 26°18 | 10°42 | 4° 3 | 10°51 | 23° 2 | 22°19 | 16° 7 | 21°43 | T 29 |
| W30 | 0 35 49 | 7♎ 1'28 | 24♐48 | 11♎45 | 25♍40 | 29♌12 | 21♐57 | 26♒15 | 10♋43 | 4♈ 1 | 10♌52 | 23♍ 1 | 22♍16 | 16♑13 | 21♍51 | W30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 8n20 | 16s12 | 5n 0 | 3s32 | 1s44 | 15n50 | 0n57 | 18n35 | 1n 8 | 22s52 | 0n10 | 13s46 | 1s43 | 23n25 | 0n19 | 0n30 | 1s32 | 24n13 | 6n46 | 2n42 | 2n28 | 18s 0 | 1n18 | 3s54 |
| W 2 | 7 58 | 17 37 | 5 14 | 4 8 | 1 53 | 15 28 | 0 59 | 18 25 | 1 8 | 22 53 | 0 10 | 13 48 | 1 43 | 23 25 | 0 19 | 0 30 | 1 32 | 24 13 | 6 46 | 2 42 | 2 29 | 18 0 | 1 15 | 3 54 |
| T 3 | 7 36 | 18 13 | 5 15 | 4 42 | 2 1 | 15 6 | 1 1 | 18 14 | 1 9 | 22 53 | 0 10 | 13 49 | 1 43 | 23 25 | 0 19 | 0 29 | 1 32 | 24 13 | 6 47 | 2 42 | 2 30 | 17 59 | 1 12 | 3 54 |
| F 4 | 7 14 | 18 2 | 5 2 | 5 16 | 2 10 | 14 43 | 1 3 | 18 4 | 1 9 | 22 54 | 0 10 | 13 51 | 1 43 | 23 25 | 0 19 | 0 29 | 1 32 | 24 13 | 6 47 | 2 42 | 2 32 | 17 59 | 1 8 | 3 54 |
| S 5 | 6 51 | 17 3 | 4 36 | 5 49 | 2 19 | 14 20 | 1 5 | 17 53 | 1 9 | 22 54 | 0 10 | 13 52 | 1 43 | 23 25 | 0 19 | 0 28 | 1 32 | 24 12 | 6 47 | 2 43 | 2 33 | 17 59 | 1 5 | 3 53 |
| S 6 | 6 29 | 15 19 | 3 58 | 6 20 | 2 27 | 13 57 | 1 6 | 17 43 | 1 10 | 22 54 | 0 10 | 13 54 | 1 43 | 23 24 | 0 19 | 0 27 | 1 32 | 24 12 | 6 47 | 2 43 | 2 34 | 17 58 | 1 2 | 3 53 |
| M 7 | 6 7 | 12 53 | 3 9 | 6 51 | 2 35 | 13 33 | 1 8 | 17 32 | 1 10 | 22 55 | 0 9 | 13 55 | 1 43 | 23 24 | 0 19 | 0 27 | 1 32 | 24 12 | 6 47 | 2 44 | 2 36 | 17 58 | 0 59 | 3 53 |
| T 8 | 5 44 | 9 51 | 2 10 | 7 20 | 2 44 | 13 9 | 1 9 | 17 21 | 1 11 | 22 55 | 0 9 | 13 57 | 1 43 | 23 24 | 0 19 | 0 26 | 1 32 | 24 11 | 6 47 | 2 44 | 2 37 | 17 58 | 0 56 | 3 52 |
| W 9 | 5 21 | 6 19 | 1 5 | 7 47 | 2 51 | 12 44 | 1 11 | 17 10 | 1 11 | 22 56 | 0 9 | 13 58 | 1 43 | 23 24 | 0 19 | 0 25 | 1 32 | 24 11 | 6 48 | 2 45 | 2 38 | 17 57 | 0 53 | 3 52 |
| T 10 | 4 59 | 2 27 | 0s 5 | 8 13 | 2 59 | 12 19 | 1 12 | 16 59 | 1 11 | 22 56 | 0 9 | 14 0 | 1 43 | 23 24 | 0 19 | 0 25 | 1 32 | 24 11 | 6 48 | 2 45 | 2 39 | 17 57 | 0 49 | 3 52 |
| F 11 | 4 36 | 1n36 | 1 16 | 8 38 | 3 6 | 11 54 | 1 14 | 16 48 | 1 12 | 22 57 | 0 9 | 14 1 | 1 43 | 23 24 | 0 19 | 0 24 | 1 32 | 24 11 | 6 48 | 2 45 | 2 41 | 17 57 | 0 46 | 3 52 |
| S 12 | 4 13 | 5 38 | 2 24 | 9 0 | 3 13 | 11 28 | 1 15 | 16 37 | 1 12 | 22 57 | 0 9 | 14 3 | 1 43 | 23 24 | 0 19 | 0 23 | 1 32 | 24 11 | 6 48 | 2 44 | 2 42 | 17 56 | 0 43 | 3 51 |
| S 13 | 3 50 | 9 27 | 3 26 | 9 21 | 3 20 | 11 2 | 1 16 | 16 25 | 1 12 | 22 58 | 0 9 | 14 4 | 1 43 | 23 24 | 0 19 | 0 23 | 1 32 | 24 10 | 6 48 | 2 44 | 2 43 | 17 56 | 0 40 | 3 51 |
| M14 | 3 27 | 12 50 | 4 17 | 9 40 | 3 26 | 10 36 | 1 17 | 16 14 | 1 13 | 22 58 | 0 8 | 14 5 | 1 43 | 23 23 | 0 19 | 0 22 | 1 32 | 24 10 | 6 48 | 2 44 | 2 44 | 17 55 | 0 37 | 3 51 |
| T 15 | 3 4 | 15 34 | 4 54 | 9 56 | 3 32 | 10 10 | 1 18 | 16 2 | 1 13 | 22 59 | 0 8 | 14 7 | 1 43 | 23 23 | 0 19 | 0 22 | 1 32 | 24 10 | 6 49 | 2 44 | 2 46 | 17 55 | 0 33 | 3 51 |
| W16 | 2 40 | 17 24 | 5 14 | 10 10 | 3 37 | 9 43 | 1 19 | 15 51 | 1 13 | 22 59 | 0 8 | 14 8 | 1 43 | 23 23 | 0 19 | 0 21 | 1 32 | 24 10 | 6 49 | 2 44 | 2 47 | 17 55 | 0 30 | 3 51 |
| T 17 | 2 17 | 18 13 | 5 16 | 10 21 | 3 41 | 9 16 | 1 20 | 15 39 | 1 14 | 23 0 | 0 8 | 14 9 | 1 43 | 23 23 | 0 19 | 0 20 | 1 32 | 24 9 | 6 49 | 2 44 | 2 48 | 17 54 | 0 27 | 3 50 |
| F 18 | 1 54 | 17 53 | 4 58 | 10 30 | 3 45 | 8 48 | 1 21 | 15 27 | 1 14 | 23 1 | 0 8 | 14 10 | 1 43 | 23 23 | 0 19 | 0 20 | 1 32 | 24 9 | 6 49 | 2 44 | 2 49 | 17 54 | 0 24 | 3 50 |
| S 19 | 1 30 | 16 24 | 4 22 | 10 35 | 3 47 | 8 21 | 1 22 | 15 15 | 1 14 | 23 1 | 0 8 | 14 12 | 1 43 | 23 23 | 0 19 | 0 19 | 1 32 | 24 9 | 6 49 | 2 44 | 2 51 | 17 54 | 0 20 | 3 50 |
| S 20 | 1 7 | 13 54 | 3 29 | 10 37 | 3 49 | 7 53 | 1 23 | 15 3 | 1 15 | 23 2 | 0 8 | 14 13 | 1 43 | 23 23 | 0 19 | 0 18 | 1 32 | 24 9 | 6 50 | 2 44 | 2 52 | 17 53 | 0 17 | 3 50 |
| M21 | 0 44 | 10 32 | 2 24 | 10 35 | 3 49 | 7 25 | 1 24 | 14 51 | 1 15 | 23 2 | 0 8 | 14 14 | 1 43 | 23 23 | 0 19 | 0 18 | 1 32 | 24 9 | 6 50 | 2 44 | 2 53 | 17 53 | 0 14 | 3 49 |
| T 22 | 0 20 | 6 34 | 1 10 | 10 30 | 3 49 | 6 56 | 1 24 | 14 39 | 1 15 | 23 3 | 0 7 | 14 15 | 1 43 | 23 23 | 0 20 | 0 17 | 1 32 | 24 9 | 6 50 | 2 44 | 2 54 | 17 52 | 0 11 | 3 49 |
| W23 | 0s 3 | 2 17 | 0n 8 | 10 20 | 3 47 | 6 28 | 1 25 | 14 27 | 1 16 | 23 3 | 0 7 | 14 16 | 1 43 | 23 23 | 0 20 | 0 16 | 1 32 | 24 8 | 6 50 | 2 44 | 2 56 | 17 52 | 0 7 | 3 49 |
| T 24 | 0 27 | 2s 3 | 1 23 | 10 6 | 3 43 | 5 59 | 1 26 | 14 14 | 1 16 | 23 4 | 0 7 | 14 18 | 1 43 | 23 23 | 0 20 | 0 16 | 1 32 | 24 8 | 6 51 | 2 44 | 2 57 | 17 52 | 0 4 | 3 49 |
| F 25 | 0 50 | 6 10 | 2 33 | 9 47 | 3 38 | 5 30 | 1 26 | 14 2 | 1 16 | 23 5 | 0 7 | 14 19 | 1 43 | 23 22 | 0 20 | 0 15 | 1 32 | 24 8 | 6 51 | 2 44 | 2 58 | 17 51 | 0 1 | 3 49 |
| S 26 | 1 14 | 9 54 | 3 32 | 9 24 | 3 31 | 5 1 | 1 26 | 13 50 | 1 17 | 23 5 | 0 7 | 14 20 | 1 43 | 23 22 | 0 20 | 0 14 | 1 32 | 24 8 | 6 51 | 2 44 | 2 59 | 17 51 | 0s 2 | 3 49 |
| S 27 | 1 37 | 13 3 | 4 19 | 8 57 | 3 22 | 4 32 | 1 27 | 13 37 | 1 17 | 23 6 | 0 7 | 14 21 | 1 43 | 23 22 | 0 20 | 0 14 | 1 32 | 24 8 | 6 51 | 2 45 | 3 1 | 17 50 | 0 6 | 3 48 |
| M28 | 2 1 | 15 31 | 4 52 | 8 25 | 3 11 | 4 3 | 1 27 | 13 25 | 1 17 | 23 6 | 0 7 | 14 22 | 1 43 | 23 22 | 0 20 | 0 13 | 1 32 | 24 8 | 6 51 | 2 46 | 3 2 | 17 50 | 0 9 | 3 48 |
| T 29 | 2 24 | 17 13 | 5 11 | 7 49 | 2 58 | 3 33 | 1 27 | 13 12 | 1 18 | 23 7 | 0 6 | 14 23 | 1 43 | 23 22 | 0 20 | 0 12 | 1 32 | 24 8 | 6 52 | 2 46 | 3 3 | 17 49 | 0 12 | 3 48 |
| W30 | 2s48 | 18s 7 | 5n16 | 7s10 | 2s44 | 3n 4 | 1n27 | 12n59 | 1n18 | 23s 8 | 0n 6 | 14s24 | 1s43 | 23n22 | 0n20 | 0n12 | 1s32 | 24n 7 | 6n52 | 2n46 | 3n 4 | 17s49 | 0s15 | 3s48 |

Julian Day Number = 2341850.5, Delta T = 14.40 sec
Ecliptic obliquity = 23°28'33, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'52, Lahiri = 19°39'53Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## OCTOBER 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 0 39 45 | 8♎ 0'37 | 6♉45 | 10°R36 | 26♍55 | 29♌49 | 22♐ 5 | 26°R12 | 10♋44 | 4°R 0 | 10♌53 | 23°D 1 | 22♍13 | 16♉20 | 22♍ 0 | T 1 |
| F 2 | 0 43 42 | 8°59'49 | 18°37 | 9♎26 | 28°10 | 0♍26 | 22°13 | 26♒10 | 10°45 | 3♈58 | 10°54 | 23♍ 1 | 22° 9 | 16°27 | 22° 9 | F 2 |
| S 3 | 0 47 38 | 9°59'01 | 0♒31 | 8°16 | 29°25 | 1° 3 | 22°21 | 26° 7 | 10°46 | 3°56 | 10°55 | 23° 2 | 22° 6 | 16°33 | 22°17 | S 3 |
| S 4 | 0 51 35 | 10°58'16 | 12°30 | 7° 9 | 0♎39 | 1°40 | 22°29 | 26° 5 | 10°47 | 3°55 | 10°56 | 23° 3 | 22° 3 | 16°40 | 22°26 | S 4 |
| M 5 | 0 55 31 | 11°57'33 | 24°39 | 6° 6 | 1°54 | 2°17 | 22°37 | 26° 2 | 10°47 | 3°53 | 10°57 | 23° 5 | 22° 0 | 16°47 | 22°34 | M 5 |
| T 6 | 0 59 28 | 12°56'51 | 7♓ 2 | 5°10 | 3° 9 | 2°54 | 22°46 | 26° 0 | 10°48 | 3°51 | 10°58 | 23° 6 | 21°57 | 16°54 | 22°43 | T 6 |
| W 7 | 1 3 24 | 13°56'11 | 19°42 | 4°22 | 4°24 | 3°31 | 22°54 | 25°57 | 10°48 | 3°50 | 10°59 | 23°R 7 | 21°54 | 17° 0 | 22°51 | W 7 |
| T 8 | 1 7 21 | 14°55'33 | 2♈39 | 3°42 | 5°39 | 4° 8 | 23° 3 | 25°55 | 10°49 | 3°48 | 11° 0 | 23° 7 | 21°50 | 17° 7 | 23° 0 | T 8 |
| F 9 | 1 11 17 | 15°54'57 | 15°56 | 3°13 | 6°54 | 4°45 | 23°12 | 25°53 | 10°49 | 3°46 | 11° 1 | 23° 5 | 21°47 | 17°14 | 23° 8 | F 9 |
| S 10 | 1 15 14 | 16°54'23 | 29°30 | 2°55 | 8° 9 | 5°21 | 23°21 | 25°51 | 10°50 | 3°45 | 11° 2 | 23° 3 | 21°44 | 17°20 | 23°16 | S 10 |
| S 11 | 1 19 11 | 17°53'52 | 13♉19 | 2°D47 | 9°24 | 5°58 | 23°30 | 25°49 | 10°50 | 3°43 | 11° 3 | 22°59 | 21°41 | 17°27 | 23°25 | S 11 |
| M12 | 1 23 7 | 18°53'22 | 27°20 | 2°51 | 10°39 | 6°35 | 23°39 | 25°47 | 10°50 | 3°42 | 11° 4 | 22°56 | 21°38 | 17°34 | 23°33 | M12 |
| T 13 | 1 27 4 | 19°52'55 | 11♊29 | 3° 5 | 11°54 | 7°12 | 23°48 | 25°46 | 10°50 | 3°40 | 11° 5 | 22°52 | 21°34 | 17°41 | 23°41 | T 13 |
| W14 | 1 31 0 | 20°52'30 | 25°42 | 3°30 | 13° 9 | 7°49 | 23°57 | 25°44 | 10°51 | 3°38 | 11° 5 | 22°49 | 21°31 | 17°47 | 23°50 | W14 |
| T 15 | 1 34 57 | 21°52'08 | 9♋57 | 4° 4 | 14°24 | 8°25 | 24° 7 | 25°42 | 10°51 | 3°37 | 11° 6 | 22°47 | 21°28 | 17°54 | 23°58 | T 15 |
| F 16 | 1 38 53 | 22°51'47 | 24° 9 | 4°48 | 15°40 | 9° 2 | 24°17 | 25°41 | 10°51 | 3°35 | 11° 7 | 22°D46 | 21°25 | 18° 1 | 24° 6 | F 16 |
| S 17 | 1 42 50 | 23°51'30 | 8♌16 | 5°39 | 16°55 | 9°38 | 24°26 | 25°40 | 10°R51 | 3°34 | 11° 8 | 22°47 | 21°22 | 18° 7 | 24°14 | S 17 |
| S 18 | 1 46 46 | 24°51'14 | 22°18 | 6°38 | 18°10 | 10°15 | 24°36 | 25°38 | 10°51 | 3°32 | 11° 8 | 22°49 | 21°19 | 18°14 | 24°22 | S 18 |
| M19 | 1 50 43 | 25°51'00 | 6♍13 | 7°43 | 19°25 | 10°52 | 24°46 | 25°37 | 10°51 | 3°31 | 11° 9 | 22°50 | 21°15 | 18°21 | 24°30 | M19 |
| T 20 | 1 54 40 | 26°50'49 | 20° 0 | 8°54 | 20°40 | 11°28 | 24°56 | 25°36 | 10°50 | 3°29 | 11°10 | 22°R51 | 21°12 | 18°28 | 24°38 | T 20 |
| W21 | 1 58 36 | 27°50'40 | 3♎36 | 10° 9 | 21°55 | 12° 5 | 25° 7 | 25°35 | 10°50 | 3°28 | 11°10 | 22°50 | 21° 9 | 18°34 | 24°46 | W21 |
| T 22 | 2 2 33 | 28°50'33 | 17° 2 | 11°29 | 23°11 | 12°41 | 25°17 | 25°34 | 10°50 | 3°26 | 11°11 | 22°48 | 21° 6 | 18°41 | 24°54 | T 22 |
| F 23 | 2 6 29 | 29°50'28 | 0♏14 | 12°53 | 24°26 | 13°17 | 25°27 | 25°34 | 10°50 | 3°25 | 11°11 | 22°44 | 21° 3 | 18°48 | 25° 2 | F 23 |
| S 24 | 2 10 26 | 0♏50'25 | 13°12 | 14°19 | 25°41 | 13°54 | 25°38 | 25°33 | 10°49 | 3°23 | 11°12 | 22°38 | 21° 0 | 18°54 | 25°10 | S 24 |
| S 25 | 2 14 22 | 1°50'24 | 25°55 | 15°48 | 26°56 | 14°30 | 25°48 | 25°32 | 10°49 | 3°22 | 11°12 | 22°31 | 20°56 | 19° 1 | 25°18 | S 25 |
| M26 | 2 18 19 | 2°50'25 | 8♐23 | 17°19 | 28°12 | 15° 6 | 25°59 | 25°32 | 10°48 | 3°21 | 11°13 | 22°24 | 20°53 | 19° 8 | 25°26 | M26 |
| T 27 | 2 22 15 | 3°50'27 | 20°38 | 18°52 | 29°27 | 15°43 | 26°10 | 25°32 | 10°48 | 3°19 | 11°13 | 22°17 | 20°50 | 19°14 | 25°33 | T 27 |
| W28 | 2 26 12 | 4°50'32 | 2♑41 | 20°26 | 0♏42 | 16°19 | 26°21 | 25°31 | 10°47 | 3°18 | 11°14 | 22°11 | 20°47 | 19°21 | 25°41 | W28 |
| T 29 | 2 30 9 | 5°50'38 | 14°36 | 22° 1 | 1°58 | 16°55 | 26°32 | 25°31 | 10°47 | 3°16 | 11°14 | 22° 6 | 20°44 | 19°28 | 25°48 | T 29 |
| F 30 | 2 34 5 | 6°50'45 | 26°27 | 23°37 | 3°13 | 17°31 | 26°43 | 25°D31 | 10°46 | 3°15 | 11°15 | 22° 4 | 20°40 | 19°35 | 25°56 | F 30 |
| S 31 | 2 38 2 | 7♏50'54 | 8♒19 | 25♎14 | 4♏28 | 18♍ 7 | 26♐54 | 25♒31 | 10♋45 | 3♈14 | 11♌15 | 22°D 3 | 20♍37 | 19♉41 | 26♍ 3 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 3s11 | 18s11 | 5n 7 | 6s28 | 2s27 | 2n34 | 1n27 | 12n46 | 1n18 | 23s 8 | 0n 6 | 14s24 | 1s43 | 23n22 | 0n20 | 0n11 | 1s32 | 24n 7 | 6n52 | 2n47 | 3n 6 | 17s49 | 0s19 | 3s48 |
| F 2 | 3 34 | 17 28 | 4 45 | 5 44 | 2 10 | 2 4 | 1 27 | 12 34 | 1 18 | 23 9 | 0 6 | 14 25 | 1 43 | 23 22 | 0 20 | 0 10 | 1 32 | 24 7 | 6 52 | 2 47 | 3 7 | 17 48 | 0 22 | 3 48 |
| S 3 | 3 58 | 15 59 | 4 11 | 4 59 | 1 51 | 1 34 | 1 27 | 12 21 | 1 19 | 23 9 | 0 6 | 14 26 | 1 42 | 23 22 | 0 20 | 0 10 | 1 32 | 24 7 | 6 53 | 2 46 | 3 8 | 17 48 | 0 25 | 3 48 |
| S 4 | 4 21 | 13 47 | 3 26 | 4 14 | 1 31 | 1 4 | 1 27 | 12 8 | 1 19 | 23 10 | 0 6 | 14 27 | 1 42 | 23 22 | 0 20 | 0 9 | 1 32 | 24 7 | 6 53 | 2 46 | 3 9 | 17 47 | 0 28 | 3 47 |
| M 5 | 4 44 | 10 57 | 2 31 | 3 30 | 1 10 | 0 34 | 1 27 | 11 55 | 1 19 | 23 10 | 0 6 | 14 28 | 1 42 | 23 22 | 0 20 | 0 8 | 1 32 | 24 7 | 6 53 | 2 45 | 3 11 | 17 47 | 0 32 | 3 47 |
| T 6 | 5 7 | 7 35 | 1 28 | 2 49 | 0 50 | 0 4 | 1 27 | 11 42 | 1 20 | 23 11 | 0 6 | 14 29 | 1 42 | 23 22 | 0 20 | 0 8 | 1 32 | 24 7 | 6 53 | 2 44 | 3 12 | 17 46 | 0 35 | 3 47 |
| W 7 | 5 30 | 3 48 | 0 19 | 2 11 | 0 29 | 0s26 | 1 26 | 11 29 | 1 20 | 23 12 | 0 5 | 14 29 | 1 42 | 23 22 | 0 20 | 0 7 | 1 32 | 24 7 | 6 53 | 2 44 | 3 13 | 17 46 | 0 38 | 3 47 |
| T 8 | 5 53 | 0n15 | 0s52 | 1 37 | 0 10 | 0 56 | 1 26 | 11 15 | 1 20 | 23 12 | 0 5 | 14 30 | 1 42 | 23 22 | 0 20 | 0 6 | 1 32 | 24 7 | 6 54 | 2 44 | 3 14 | 17 46 | 0 41 | 3 47 |
| F 9 | 6 16 | 4 24 | 2 2 | 1 8 | 0n 9 | 1 26 | 1 25 | 11 2 | 1 21 | 23 13 | 0 5 | 14 31 | 1 42 | 23 22 | 0 20 | 0 6 | 1 32 | 24 7 | 6 54 | 2 45 | 3 16 | 17 45 | 0 45 | 3 47 |
| S 10 | 6 39 | 8 24 | 3 7 | 0 45 | 0 27 | 1 56 | 1 25 | 10 49 | 1 21 | 23 13 | 0 5 | 14 31 | 1 42 | 23 22 | 0 20 | 0 5 | 1 32 | 24 7 | 6 54 | 2 46 | 3 17 | 17 45 | 0 48 | 3 47 |
| S 11 | 7 2 | 12 1 | 4 2 | 0 27 | 0 43 | 2 26 | 1 24 | 10 36 | 1 21 | 23 14 | 0 5 | 14 32 | 1 42 | 23 22 | 0 20 | 0 4 | 1 32 | 24 7 | 6 54 | 2 47 | 3 18 | 17 44 | 0 51 | 3 47 |
| M12 | 7 25 | 15 0 | 4 43 | 0 15 | 0 58 | 2 57 | 1 24 | 10 22 | 1 21 | 23 15 | 0 5 | 14 32 | 1 42 | 23 22 | 0 20 | 0 4 | 1 32 | 24 7 | 6 55 | 2 49 | 3 20 | 17 44 | 0 54 | 3 47 |
| T 13 | 7 47 | 17 7 | 5 7 | 0 8 | 1 12 | 3 27 | 1 23 | 10 9 | 1 22 | 23 15 | 0 5 | 14 33 | 1 42 | 23 22 | 0 20 | 0 3 | 1 32 | 24 7 | 6 55 | 2 50 | 3 21 | 17 43 | 0 58 | 3 47 |
| W14 | 8 10 | 18 12 | 5 13 | 0 7 | 1 24 | 3 57 | 1 22 | 9 55 | 1 22 | 23 16 | 0 5 | 14 33 | 1 42 | 23 22 | 0 20 | 0 2 | 1 32 | 24 7 | 6 55 | 2 51 | 3 22 | 17 43 | 1 1 | 3 47 |
| T 15 | 8 32 | 18 8 | 4 59 | 0 11 | 1 34 | 4 26 | 1 21 | 9 42 | 1 22 | 23 16 | 0 5 | 14 34 | 1 42 | 23 22 | 0 20 | 0 2 | 1 32 | 24 7 | 6 55 | 2 52 | 3 23 | 17 42 | 1 4 | 3 47 |
| F 16 | 8 54 | 16 55 | 4 28 | 0 21 | 1 42 | 4 56 | 1 20 | 9 28 | 1 23 | 23 17 | 0 4 | 14 34 | 1 41 | 23 22 | 0 20 | 0 1 | 1 32 | 24 7 | 6 56 | 2 52 | 3 25 | 17 42 | 1 7 | 3 46 |
| S 17 | 9 16 | 14 41 | 3 40 | 0 34 | 1 50 | 5 26 | 1 19 | 9 15 | 1 23 | 23 17 | 0 4 | 14 35 | 1 41 | 23 22 | 0 20 | 0 1 | 1 32 | 24 7 | 6 56 | 2 52 | 3 26 | 17 41 | 1 10 | 3 46 |
| S 18 | 9 38 | 11 35 | 2 39 | 0 52 | 1 55 | 5 56 | 1 18 | 9 1 | 1 23 | 23 18 | 0 4 | 14 35 | 1 41 | 23 22 | 0 20 | 0 0 | 1 32 | 24 7 | 6 56 | 2 51 | 3 27 | 17 41 | 1 13 | 3 46 |
| M19 | 10 0 | 7 51 | 1 30 | 1 14 | 2 0 | 6 25 | 1 17 | 8 48 | 1 24 | 23 18 | 0 4 | 14 35 | 1 41 | 23 22 | 0 20 | 0s 1 | 1 32 | 24 7 | 6 56 | 2 51 | 3 28 | 17 40 | 1 17 | 3 46 |
| T 20 | 10 22 | 3 44 | 0 16 | 1 39 | 2 3 | 6 55 | 1 16 | 8 34 | 1 24 | 23 19 | 0 4 | 14 35 | 1 41 | 23 22 | 0 20 | 0 1 | 1 32 | 24 7 | 6 57 | 2 51 | 3 30 | 17 40 | 1 20 | 3 46 |
| W21 | 10 43 | 0s33 | 0n58 | 2 7 | 2 5 | 7 24 | 1 15 | 8 20 | 1 24 | 23 19 | 0 4 | 14 36 | 1 41 | 23 22 | 0 20 | 0 2 | 1 32 | 24 7 | 6 57 | 2 51 | 3 31 | 17 39 | 1 23 | 3 46 |
| T 22 | 11 5 | 4 44 | 2 8 | 2 37 | 2 6 | 7 53 | 1 14 | 8 7 | 1 24 | 23 20 | 0 4 | 14 36 | 1 41 | 23 22 | 0 20 | 0 2 | 1 32 | 24 7 | 6 57 | 2 52 | 3 32 | 17 39 | 1 26 | 3 46 |
| F 23 | 11 26 | 8 37 | 3 9 | 3 10 | 2 6 | 8 22 | 1 12 | 7 53 | 1 25 | 23 20 | 0 4 | 14 36 | 1 41 | 23 22 | 0 20 | 0 3 | 1 32 | 24 7 | 6 58 | 2 53 | 3 33 | 17 39 | 1 29 | 3 46 |
| S 24 | 11 47 | 12 1 | 4 0 | 3 44 | 2 5 | 8 51 | 1 11 | 7 39 | 1 25 | 23 21 | 0 3 | 14 36 | 1 41 | 23 22 | 0 20 | 0 3 | 1 32 | 24 7 | 6 58 | 2 56 | 3 35 | 17 38 | 1 32 | 3 46 |
| S 25 | 12 8 | 14 47 | 4 37 | 4 20 | 2 4 | 9 19 | 1 9 | 7 25 | 1 25 | 23 21 | 0 3 | 14 36 | 1 41 | 23 22 | 0 20 | 0 4 | 1 32 | 24 8 | 6 58 | 2 58 | 3 36 | 17 38 | 1 35 | 3 46 |
| M26 | 12 29 | 16 48 | 5 0 | 4 57 | 2 1 | 9 47 | 1 8 | 7 11 | 1 26 | 23 22 | 0 3 | 14 36 | 1 41 | 23 22 | 0 20 | 0 4 | 1 32 | 24 8 | 6 58 | 3 1 | 3 37 | 17 37 | 1 38 | 3 46 |
| T 27 | 12 49 | 18 0 | 5 9 | 5 35 | 1 58 | 10 15 | 1 7 | 6 58 | 1 26 | 23 22 | 0 3 | 14 36 | 1 40 | 23 23 | 0 20 | 0 5 | 1 32 | 24 8 | 6 59 | 3 4 | 3 38 | 17 37 | 1 41 | 3 46 |
| W28 | 13 9 | 18 23 | 5 4 | 6 13 | 1 55 | 10 43 | 1 5 | 6 44 | 1 26 | 23 22 | 0 3 | 14 36 | 1 40 | 23 23 | 0 20 | 0 6 | 1 32 | 24 8 | 6 59 | 3 6 | 3 40 | 17 36 | 1 44 | 3 46 |
| T 29 | 13 29 | 17 56 | 4 46 | 6 52 | 1 51 | 11 11 | 1 3 | 6 30 | 1 26 | 23 23 | 0 3 | 14 36 | 1 40 | 23 23 | 0 21 | 0 6 | 1 32 | 24 8 | 6 59 | 3 8 | 3 41 | 17 36 | 1 47 | 3 46 |
| F 30 | 13 49 | 16 43 | 4 16 | 7 32 | 1 47 | 11 38 | 1 2 | 6 16 | 1 27 | 23 23 | 0 3 | 14 36 | 1 40 | 23 23 | 0 21 | 0 7 | 1 32 | 24 8 | 6 59 | 3 9 | 3 42 | 17 35 | 1 50 | 3 46 |
| S 31 | 14s 9 | 14s46 | 3n34 | 8s12 | 1n42 | 12s 5 | 1n 0 | 6n 2 | 1n27 | 23s24 | 0n 3 | 14s36 | 1s40 | 23n23 | 0n21 | 0s 7 | 1s32 | 24n 8 | 7n 0 | 3n10 | 3n43 | 17s34 | 1s53 | 3s46 |

Julian Day Number = 2341880.5, Delta T = 14.37 sec
Ecliptic obliquity = 23°28'33, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°32'56, Lahiri = 19°39'57Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## NOVEMBER 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 2 41 58 | 8♏51'05 | 20♒16 | 26♎51 | 5♏44 | 18♍43 | 27♐ 5 | 25♒31 | 10°R44 | 3°R13 | 11♌15 | 22♍ 4 | 20♍34 | 19♉48 | 26♍11 | S 1 |
| M 2 | 2 45 55 | 9°51'17 | 2♓24 | 28°28 | 6°59 | 19°19 | 27°17 | 25°32 | 10♋44 | 3♈11 | 11°16 | 22° 5 | 20°31 | 19°55 | 26°18 | M 2 |
| T 3 | 2 49 51 | 10°51'30 | 14°48 | 0♏ 6 | 8°14 | 19°55 | 27°28 | 25°32 | 10°43 | 3°10 | 11°16 | 22° 6 | 20°28 | 20° 1 | 26°26 | T 3 |
| W 4 | 2 53 48 | 11°51'46 | 27°32 | 1°43 | 9°30 | 20°31 | 27°40 | 25°33 | 10°42 | 3° 9 | 11°16 | 22°R 6 | 20°25 | 20° 8 | 26°33 | W 4 |
| T 5 | 2 57 44 | 12°52'02 | 10♈39 | 3°21 | 10°45 | 21° 7 | 27°51 | 25°33 | 10°41 | 3° 8 | 11°16 | 22° 5 | 20°21 | 20°15 | 26°40 | T 5 |
| F 6 | 3 1 41 | 13°52'21 | 24°11 | 4°58 | 12° 0 | 21°43 | 28° 3 | 25°34 | 10°40 | 3° 6 | 11°17 | 22° 1 | 20°18 | 20°22 | 26°47 | F 6 |
| S 7 | 3 5 38 | 14°52'41 | 8♉ 6 | 6°36 | 13°16 | 22°18 | 28°15 | 25°35 | 10°39 | 3° 5 | 11°17 | 21°54 | 20°15 | 20°28 | 26°54 | S 7 |
| S 8 | 3 9 34 | 15°53'02 | 22°22 | 8°13 | 14°31 | 22°54 | 28°26 | 25°36 | 10°37 | 3° 4 | 11°17 | 21°46 | 20°12 | 20°35 | 27° 1 | S 8 |
| M 9 | 3 13 31 | 16°53'26 | 6♊53 | 9°50 | 15°46 | 23°30 | 28°38 | 25°37 | 10°36 | 3° 3 | 11°17 | 21°37 | 20° 9 | 20°42 | 27° 8 | M 9 |
| T 10 | 3 17 27 | 17°53'51 | 21°31 | 11°27 | 17° 2 | 24° 6 | 28°50 | 25°38 | 10°35 | 3° 2 | 11°17 | 21°28 | 20° 6 | 20°48 | 27°15 | T 10 |
| W11 | 3 21 24 | 18°54'18 | 6♋10 | 13° 4 | 18°17 | 24°41 | 29° 2 | 25°39 | 10°34 | 3° 1 | 11°17 | 21°20 | 20° 2 | 20°55 | 27°22 | W11 |
| T 12 | 3 25 20 | 19°54'47 | 20°42 | 14°40 | 19°32 | 25°17 | 29°15 | 25°40 | 10°32 | 3° 0 | 11°R17 | 21°15 | 19°59 | 21° 2 | 27°28 | T 12 |
| F 13 | 3 29 17 | 20°55'17 | 5♌ 4 | 16°16 | 20°48 | 25°52 | 29°27 | 25°42 | 10°31 | 2°59 | 11°17 | 21°11 | 19°56 | 21° 8 | 27°35 | F 13 |
| S 14 | 3 33 13 | 21°55'50 | 19°11 | 17°52 | 22° 3 | 26°28 | 29°39 | 25°43 | 10°30 | 2°58 | 11°17 | 21°D10 | 19°53 | 21°15 | 27°42 | S 14 |
| S 15 | 3 37 10 | 22°56'24 | 3♍ 4 | 19°28 | 23°19 | 27° 3 | 29°51 | 25°45 | 10°28 | 2°57 | 11°17 | 21°10 | 19°50 | 21°22 | 27°48 | S 15 |
| M16 | 3 41 7 | 23°57'00 | 16°43 | 21° 4 | 24°34 | 27°38 | 0♑ 4 | 25°47 | 10°27 | 2°56 | 11°17 | 21°R11 | 19°46 | 21°29 | 27°54 | M16 |
| T 17 | 3 45 3 | 24°57'38 | 0♎ 8 | 22°39 | 25°50 | 28°14 | 0°16 | 25°48 | 10°25 | 2°55 | 11°17 | 21°11 | 19°43 | 21°35 | 28° 1 | T 17 |
| W18 | 3 49 0 | 25°58'18 | 13°20 | 24°14 | 27° 5 | 28°49 | 0°29 | 25°50 | 10°23 | 2°54 | 11°17 | 21° 9 | 19°40 | 21°42 | 28° 7 | W18 |
| T 19 | 3 52 56 | 26°58'59 | 26°22 | 25°49 | 28°20 | 29°24 | 0°41 | 25°52 | 10°22 | 2°53 | 11°16 | 21° 4 | 19°37 | 21°49 | 28°13 | T 19 |
| F 20 | 3 56 53 | 27°59'41 | 9♏13 | 27°24 | 29°36 | 29°59 | 0°54 | 25°55 | 10°20 | 2°53 | 11°16 | 20°56 | 19°34 | 21°55 | 28°19 | F 20 |
| S 21 | 4 0 49 | 29° 0'26 | 21°53 | 28°59 | 0♐51 | 0♎34 | 1° 7 | 25°57 | 10°18 | 2°52 | 11°16 | 20°45 | 19°31 | 22° 2 | 28°25 | S 21 |
| S 22 | 4 4 46 | 0♐ 1'11 | 4♐22 | 0♐33 | 2° 7 | 1° 9 | 1°20 | 25°59 | 10°17 | 2°51 | 11°16 | 20°33 | 19°27 | 22° 9 | 28°31 | S 22 |
| M23 | 4 8 42 | 1° 1'58 | 16°40 | 2° 8 | 3°22 | 1°44 | 1°33 | 26° 2 | 10°15 | 2°50 | 11°15 | 20°19 | 19°24 | 22°15 | 28°37 | M23 |
| T 24 | 4 12 39 | 2° 2'47 | 28°49 | 3°42 | 4°38 | 2°19 | 1°45 | 26° 4 | 10°13 | 2°50 | 11°15 | 20° 6 | 19°21 | 22°22 | 28°43 | T 24 |
| W25 | 4 16 36 | 3° 3'36 | 10♑48 | 5°16 | 5°53 | 2°54 | 1°58 | 26° 7 | 10°11 | 2°49 | 11°15 | 19°54 | 19°18 | 22°29 | 28°49 | W25 |
| T 26 | 4 20 32 | 4° 4'26 | 22°41 | 6°50 | 7° 9 | 3°29 | 2°11 | 26° 9 | 10° 9 | 2°49 | 11°14 | 19°44 | 19°15 | 22°36 | 28°54 | T 26 |
| F 27 | 4 24 29 | 5° 5'18 | 4♒30 | 8°24 | 8°24 | 4° 4 | 2°24 | 26°12 | 10° 7 | 2°48 | 11°14 | 19°38 | 19°12 | 22°42 | 29° 0 | F 27 |
| S 28 | 4 28 25 | 6° 6'10 | 16°19 | 9°58 | 9°39 | 4°38 | 2°38 | 26°15 | 10° 5 | 2°47 | 11°13 | 19°33 | 19° 8 | 22°49 | 29° 5 | S 28 |
| S 29 | 4 32 22 | 7° 7'03 | 28°13 | 11°32 | 10°55 | 5°13 | 2°51 | 26°18 | 10° 3 | 2°47 | 11°13 | 19°32 | 19° 5 | 22°56 | 29°10 | S 29 |
| M30 | 4 36 18 | 8♐ 7'57 | 10♓17 | 13♐ 6 | 12♐10 | 5♎48 | 3♑ 4 | 26♒21 | 10♋ 1 | 2♈46 | 11♌13 | 19°D31 | 19♍ 2 | 23♑ 2 | 29♍16 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 14s28 | 12s10 | 2n43 | 8s52 | 1n37 | 12s32 | 0n58 | 5n48 | 1n27 | 23s24 | 0n 3 | 14s36 | 1s40 | 23n23 | 0n21 | 0s 8 | 1s32 | 24n 9 | 7n 0 | 3n 9 | 3n45 | 17s34 | 1s56 | 3s46 |
| M 2 | 14 47 | 9 1 | 1 44 | 9 32 | 1 31 | 12 59 | 0 56 | 5 34 | 1 27 | 23 24 | 0 2 | 14 36 | 1 40 | 23 23 | 0 21 | 0 8 | 1 32 | 24 9 | 7 0 | 3 9 | 3 46 | 17 33 | 1 59 | 3 46 |
| T 3 | 15 6 | 5 23 | 0 39 | 10 11 | 1 25 | 13 25 | 0 55 | 5 21 | 1 28 | 23 25 | 0 2 | 14 35 | 1 40 | 23 23 | 0 21 | 0 8 | 1 32 | 24 9 | 7 0 | 3 8 | 3 47 | 17 33 | 2 2 | 3 46 |
| W 4 | 15 25 | 1 26 | 0s29 | 10 51 | 1 19 | 13 51 | 0 53 | 5 7 | 1 28 | 23 25 | 0 2 | 14 35 | 1 40 | 23 23 | 0 21 | 0 9 | 1 32 | 24 9 | 7 1 | 3 8 | 3 48 | 17 32 | 2 5 | 3 46 |
| T 5 | 15 43 | 2n43 | 1 38 | 11 30 | 1 13 | 14 16 | 0 51 | 4 53 | 1 28 | 23 25 | 0 2 | 14 35 | 1 39 | 23 23 | 0 21 | 0 9 | 1 32 | 24 9 | 7 1 | 3 9 | 3 50 | 17 32 | 2 8 | 3 46 |
| F 6 | 16 2 | 6 51 | 2 44 | 12 9 | 1 7 | 14 41 | 0 49 | 4 39 | 1 28 | 23 26 | 0 2 | 14 35 | 1 39 | 23 23 | 0 21 | 0 10 | 1 32 | 24 9 | 7 1 | 3 10 | 3 51 | 17 31 | 2 11 | 3 46 |
| S 7 | 16 20 | 10 44 | 3 41 | 12 47 | 1 1 | 15 6 | 0 47 | 4 25 | 1 29 | 23 26 | 0 2 | 14 34 | 1 39 | 23 24 | 0 21 | 0 10 | 1 32 | 24 10 | 7 1 | 3 13 | 3 52 | 17 31 | 2 14 | 3 46 |
| S 8 | 16 37 | 14 6 | 4 26 | 13 25 | 0 54 | 15 30 | 0 45 | 4 11 | 1 29 | 23 26 | 0 2 | 14 34 | 1 39 | 23 24 | 0 21 | 0 11 | 1 32 | 24 10 | 7 2 | 3 16 | 3 53 | 17 30 | 2 16 | 3 46 |
| M 9 | 16 54 | 16 38 | 4 55 | 14 2 | 0 47 | 15 54 | 0 43 | 3 57 | 1 29 | 23 26 | 0 2 | 14 33 | 1 39 | 23 24 | 0 21 | 0 11 | 1 32 | 24 10 | 7 2 | 3 20 | 3 55 | 17 30 | 2 19 | 3 46 |
| T 10 | 17 11 | 18 8 | 5 5 | 14 39 | 0 41 | 16 18 | 0 41 | 3 43 | 1 30 | 23 27 | 0 2 | 14 33 | 1 39 | 23 24 | 0 21 | 0 12 | 1 32 | 24 10 | 7 2 | 3 23 | 3 56 | 17 29 | 2 22 | 3 47 |
| W11 | 17 28 | 18 25 | 4 55 | 15 15 | 0 34 | 16 41 | 0 38 | 3 29 | 1 30 | 23 27 | 0 2 | 14 32 | 1 39 | 23 24 | 0 21 | 0 12 | 1 31 | 24 11 | 7 3 | 3 26 | 3 57 | 17 29 | 2 25 | 3 47 |
| T 12 | 17 45 | 17 30 | 4 26 | 15 50 | 0 27 | 17 4 | 0 36 | 3 15 | 1 30 | 23 27 | 0 1 | 14 32 | 1 39 | 23 24 | 0 21 | 0 12 | 1 31 | 24 11 | 7 3 | 3 29 | 3 58 | 17 28 | 2 28 | 3 47 |
| F 13 | 18 1 | 15 28 | 3 40 | 16 24 | 0 20 | 17 26 | 0 34 | 3 1 | 1 30 | 23 27 | 0 1 | 14 31 | 1 39 | 23 24 | 0 21 | 0 13 | 1 31 | 24 11 | 7 3 | 3 30 | 4 0 | 17 28 | 2 30 | 3 47 |
| S 14 | 18 17 | 12 31 | 2 42 | 16 58 | 0 14 | 17 48 | 0 32 | 2 48 | 1 31 | 23 27 | 0 1 | 14 31 | 1 39 | 23 24 | 0 21 | 0 13 | 1 31 | 24 11 | 7 3 | 3 30 | 4 1 | 17 27 | 2 33 | 3 47 |
| S 15 | 18 32 | 8 55 | 1 35 | 17 31 | 0 7 | 18 9 | 0 30 | 2 34 | 1 31 | 23 27 | 0 1 | 14 30 | 1 38 | 23 25 | 0 21 | 0 13 | 1 31 | 24 12 | 7 4 | 3 30 | 4 2 | 17 26 | 2 36 | 3 47 |
| M16 | 18 47 | 4 53 | 0 24 | 18 3 | 0 0 | 18 30 | 0 27 | 2 20 | 1 31 | 23 28 | 0 1 | 14 29 | 1 38 | 23 25 | 0 21 | 0 14 | 1 31 | 24 12 | 7 4 | 3 30 | 4 3 | 17 26 | 2 38 | 3 47 |
| T 17 | 19 2 | 0 41 | 0n48 | 18 34 | 0s 7 | 18 50 | 0 25 | 2 6 | 1 31 | 23 28 | 0 1 | 14 29 | 1 38 | 23 25 | 0 21 | 0 14 | 1 31 | 24 12 | 7 4 | 3 30 | 4 5 | 17 25 | 2 41 | 3 47 |
| W18 | 19 17 | 3s30 | 1 55 | 19 5 | 0 13 | 19 10 | 0 23 | 1 52 | 1 32 | 23 28 | 0 1 | 14 28 | 1 38 | 23 25 | 0 21 | 0 14 | 1 31 | 24 13 | 7 4 | 3 31 | 4 6 | 17 25 | 2 43 | 3 47 |
| T 19 | 19 31 | 7 28 | 2 56 | 19 34 | 0 20 | 19 29 | 0 21 | 1 38 | 1 32 | 23 28 | 0 1 | 14 27 | 1 38 | 23 25 | 0 21 | 0 15 | 1 31 | 24 13 | 7 5 | 3 33 | 4 7 | 17 24 | 2 46 | 3 47 |
| F 20 | 19 45 | 11 1 | 3 46 | 20 2 | 0 26 | 19 48 | 0 18 | 1 25 | 1 32 | 23 28 | 0 1 | 14 26 | 1 38 | 23 25 | 0 21 | 0 15 | 1 31 | 24 13 | 7 5 | 3 36 | 4 8 | 17 24 | 2 48 | 3 47 |
| S 21 | 19 58 | 14 0 | 4 24 | 20 30 | 0 33 | 20 6 | 0 16 | 1 11 | 1 32 | 23 28 | 0 1 | 14 25 | 1 38 | 23 25 | 0 21 | 0 15 | 1 31 | 24 13 | 7 5 | 3 40 | 4 10 | 17 23 | 2 51 | 3 47 |
| S 22 | 20 11 | 16 18 | 4 50 | 20 56 | 0 39 | 20 24 | 0 14 | 0 57 | 1 33 | 23 28 | 0 0 | 14 24 | 1 38 | 23 26 | 0 21 | 0 15 | 1 31 | 24 14 | 7 6 | 3 45 | 4 11 | 17 22 | 2 53 | 3 48 |
| M23 | 20 24 | 17 49 | 5 1 | 21 22 | 0 46 | 20 41 | 0 11 | 0 43 | 1 33 | 23 28 | 0 0 | 14 23 | 1 38 | 23 26 | 0 21 | 0 16 | 1 31 | 24 14 | 7 6 | 3 50 | 4 12 | 17 22 | 2 56 | 3 48 |
| T 24 | 20 36 | 18 30 | 4 58 | 21 46 | 0 52 | 20 57 | 0 9 | 0 30 | 1 33 | 23 28 | 0 0 | 14 23 | 1 37 | 23 26 | 0 21 | 0 16 | 1 31 | 24 14 | 7 6 | 3 56 | 4 13 | 17 21 | 2 58 | 3 48 |
| W25 | 20 48 | 18 21 | 4 42 | 22 9 | 0 58 | 21 13 | 0 6 | 0 16 | 1 33 | 23 28 | 0 0 | 14 22 | 1 37 | 23 26 | 0 21 | 0 16 | 1 31 | 24 15 | 7 6 | 4 0 | 4 15 | 17 21 | 3 1 | 3 48 |
| T 26 | 21 0 | 17 24 | 4 14 | 22 32 | 1 4 | 21 28 | 0 4 | 0 2 | 1 33 | 23 27 | 0 0 | 14 21 | 1 37 | 23 26 | 0 21 | 0 16 | 1 31 | 24 15 | 7 7 | 4 4 | 4 16 | 17 20 | 3 3 | 3 48 |
| F 27 | 21 11 | 15 41 | 3 35 | 22 53 | 1 9 | 21 43 | 0 2 | 0s11 | 1 34 | 23 27 | 0s 0 | 14 19 | 1 37 | 23 26 | 0 21 | 0 17 | 1 31 | 24 16 | 7 7 | 4 7 | 4 17 | 17 19 | 3 5 | 3 48 |
| S 28 | 21 22 | 13 19 | 2 46 | 23 13 | 1 15 | 21 57 | 0s 1 | 0 25 | 1 34 | 23 27 | 0 0 | 14 18 | 1 37 | 23 27 | 0 21 | 0 17 | 1 31 | 24 16 | 7 7 | 4 8 | 4 18 | 17 19 | 3 7 | 3 48 |
| S 29 | 21 32 | 10 23 | 1 50 | 23 32 | 1 20 | 22 10 | 0 3 | 0 38 | 1 34 | 23 27 | 0 0 | 14 17 | 1 37 | 23 27 | 0 21 | 0 17 | 1 31 | 24 16 | 7 7 | 4 9 | 4 20 | 17 18 | 3 10 | 3 48 |
| M30 | 21s42 | 6s58 | 0n49 | 23s49 | 1s25 | 22s23 | 0s 6 | 0s52 | 1n34 | 23s27 | 0s 0 | 14s16 | 1s37 | 23n27 | 0n21 | 0s17 | 1s31 | 24n17 | 7n 8 | 4n 9 | 4n21 | 17s18 | 3s12 | 3s48 |

Julian Day Number = 2341911.5, Delta T = 14.35 sec
Ecliptic obliquity = 23°28'33, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°33'01, Lahiri = 19°40'01Greg. Calendar


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# ASTRODIENST EPHEMERIS for the year 1699
# geocentric

## DECEMBER 1699 GC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 4 40 15 | 9♐ 8'52 | 22♓37 | 14♐40 | 13♐26 | 6♎22 | 3♑17 | 26♒24 | 9°R59 | 2°R46 | 11°R12 | 19°R32 | 18♍59 | 23♑ 9 | 29♍21 | T 1 |
| W 2 | 4 44 11 | 10° 9'47 | 5♈18 | 16°14 | 14°41 | 6°57 | 3°30 | 26°28 | 9♋57 | 2♈45 | 11♌11 | 19♍31 | 18°56 | 23°16 | 29°26 | W 2 |
| T 3 | 4 48 8 | 11°10'43 | 18°24 | 17°48 | 15°57 | 7°31 | 3°44 | 26°31 | 9°55 | 2°45 | 11°11 | 19°28 | 18°52 | 23°22 | 29°31 | T 3 |
| F 4 | 4 52 5 | 12°11'40 | 1♉59 | 19°21 | 17°12 | 8° 5 | 3°57 | 26°35 | 9°52 | 2°45 | 11°10 | 19°23 | 18°49 | 23°29 | 29°36 | F 4 |
| S 5 | 4 56 1 | 13°12'38 | 16° 3 | 20°55 | 18°28 | 8°39 | 4°11 | 26°38 | 9°50 | 2°44 | 11°10 | 19°15 | 18°46 | 23°36 | 29°40 | S 5 |
| S 6 | 4 59 58 | 14°13'37 | 0♊33 | 22°29 | 19°43 | 9°14 | 4°24 | 26°42 | 9°48 | 2°44 | 11° 9 | 19° 4 | 18°43 | 23°43 | 29°45 | S 6 |
| M 7 | 5 3 54 | 15°14'36 | 15°25 | 24° 3 | 20°58 | 9°48 | 4°38 | 26°46 | 9°46 | 2°44 | 11° 8 | 18°52 | 18°40 | 23°49 | 29°50 | M 7 |
| T 8 | 5 7 51 | 16°15'36 | 0♋28 | 25°37 | 22°14 | 10°22 | 4°51 | 26°49 | 9°43 | 2°44 | 11° 8 | 18°40 | 18°37 | 23°56 | 29°54 | T 8 |
| W 9 | 5 11 47 | 17°16'37 | 15°33 | 27°11 | 23°29 | 10°56 | 5° 5 | 26°53 | 9°41 | 2°44 | 11° 7 | 18°30 | 18°33 | 24° 3 | 29°58 | W 9 |
| T 10 | 5 15 44 | 18°17'39 | 0♌30 | 28°45 | 24°45 | 11°30 | 5°18 | 26°57 | 9°39 | 2°43 | 11° 6 | 18°21 | 18°30 | 24° 9 | 0♎ 3 | T 10 |
| F 11 | 5 19 40 | 19°18'42 | 15°12 | 0♑19 | 26° 0 | 12° 3 | 5°32 | 27° 1 | 9°36 | 2°43 | 11° 6 | 18°16 | 18°27 | 24°16 | 0° 7 | F 11 |
| S 12 | 5 23 37 | 20°19'46 | 29°32 | 1°53 | 27°16 | 12°37 | 5°45 | 27° 5 | 9°34 | 2°43 | 11° 5 | 18°14 | 18°24 | 24°23 | 0°11 | S 12 |
| S 13 | 5 27 34 | 21°20'51 | 13♍30 | 3°27 | 28°31 | 13°11 | 5°59 | 27°10 | 9°32 | 2°43 | 11° 4 | 18°13 | 18°21 | 24°29 | 0°15 | S 13 |
| M14 | 5 31 30 | 22°21'56 | 27° 7 | 5° 0 | 29°46 | 13°44 | 6°13 | 27°14 | 9°29 | 2°D43 | 11° 3 | 18°13 | 18°18 | 24°36 | 0°19 | M14 |
| T 15 | 5 35 27 | 23°23'03 | 10♎23 | 6°34 | 1♑ 2 | 14°18 | 6°27 | 27°18 | 9°27 | 2°43 | 11° 2 | 18°12 | 18°14 | 24°43 | 0°22 | T 15 |
| W16 | 5 39 23 | 24°24'10 | 23°22 | 8° 7 | 2°17 | 14°51 | 6°40 | 27°23 | 9°24 | 2°43 | 11° 1 | 18° 9 | 18°11 | 24°50 | 0°26 | W16 |
| T 17 | 5 43 20 | 25°25'18 | 6♏ 7 | 9°40 | 3°33 | 15°25 | 6°54 | 27°27 | 9°22 | 2°43 | 11° 1 | 18° 4 | 18° 8 | 24°56 | 0°29 | T 17 |
| F 18 | 5 47 16 | 26°26'27 | 18°40 | 11°12 | 4°48 | 15°58 | 7° 8 | 27°32 | 9°19 | 2°43 | 11° 0 | 17°55 | 18° 5 | 25° 3 | 0°33 | F 18 |
| S 19 | 5 51 13 | 27°27'36 | 1♐ 3 | 12°44 | 6° 3 | 16°31 | 7°22 | 27°37 | 9°17 | 2°44 | 10°59 | 17°44 | 18° 2 | 25°10 | 0°36 | S 19 |
| S 20 | 5 55 9 | 28°28'46 | 13°18 | 14°16 | 7°19 | 17° 4 | 7°36 | 27°42 | 9°14 | 2°44 | 10°58 | 17°30 | 17°58 | 25°16 | 0°39 | S 20 |
| M21 | 5 59 6 | 29°29'57 | 25°25 | 15°46 | 8°34 | 17°37 | 7°49 | 27°47 | 9°12 | 2°44 | 10°57 | 17°16 | 17°55 | 25°23 | 0°42 | M21 |
| T 22 | 6 3 3 | 0♑31'07 | 7♑25 | 17°16 | 9°50 | 18°10 | 8° 3 | 27°51 | 9° 9 | 2°44 | 10°56 | 17° 1 | 17°52 | 25°30 | 0°45 | T 22 |
| W23 | 6 6 59 | 1°32'18 | 19°19 | 18°44 | 11° 5 | 18°43 | 8°17 | 27°56 | 9° 7 | 2°45 | 10°55 | 16°48 | 17°49 | 25°36 | 0°48 | W23 |
| T 24 | 6 10 56 | 2°33'30 | 1♒10 | 20°10 | 12°21 | 19°16 | 8°31 | 28° 2 | 9° 4 | 2°45 | 10°54 | 16°37 | 17°46 | 25°43 | 0°51 | T 24 |
| F 25 | 6 14 52 | 3°34'41 | 12°58 | 21°35 | 13°36 | 19°48 | 8°45 | 28° 7 | 9° 1 | 2°45 | 10°53 | 16°29 | 17°43 | 25°50 | 0°53 | F 25 |
| S 26 | 6 18 49 | 4°35'52 | 24°47 | 22°58 | 14°51 | 20°21 | 8°59 | 28°12 | 8°59 | 2°46 | 10°52 | 16°24 | 17°39 | 25°56 | 0°56 | S 26 |
| S 27 | 6 22 45 | 5°37'03 | 6♓40 | 24°18 | 16° 7 | 20°53 | 9°13 | 28°17 | 8°56 | 2°46 | 10°50 | 16°22 | 17°36 | 26° 3 | 0°58 | S 27 |
| M28 | 6 26 42 | 6°38'14 | 18°42 | 25°35 | 17°22 | 21°25 | 9°27 | 28°23 | 8°54 | 2°47 | 10°49 | 16°D22 | 17°33 | 26°10 | 1° 0 | M28 |
| T 29 | 6 30 38 | 7°39'24 | 0♈58 | 26°48 | 18°37 | 21°58 | 9°41 | 28°28 | 8°51 | 2°47 | 10°48 | 16°22 | 17°30 | 26°17 | 1° 2 | T 29 |
| W30 | 6 34 35 | 8°40'35 | 13°33 | 27°57 | 19°53 | 22°30 | 9°55 | 28°34 | 8°48 | 2°48 | 10°47 | 16°R22 | 17°27 | 26°23 | 1° 4 | W30 |
| T 31 | 6 38 32 | 9♑41'45 | 26♈33 | 29♑ 1 | 21♑ 8 | 23♎ 2 | 10♑ 9 | 28♒39 | 8♋46 | 2♈48 | 10♌46 | 16♍21 | 17♍23 | 26♑30 | 1♎ 6 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 21s51 | 3s11 | 0s16 | 24s 5 | 1s31 | 22s35 | 0s 8 | 1s 5 | 1n35 | 23s27 | 0s 0 | 14s15 | 1s37 | 23n27 | 0n21 | 0s17 | 1s31 | 24n17 | 7n 8 | 4n 9 | 4n22 | 17s17 | 3s14 | 3s49 |
| W 2 | 22 0 | 0n51 | 1 23 | 24 21 | 1 35 | 22 46 | 0 10 | 1 19 | 1 35 | 23 26 | 0 1 | 14 14 | 1 37 | 23 27 | 0 21 | 0 17 | 1 31 | 24 17 | 7 8 | 4 9 | 4 23 | 17 16 | 3 16 | 3 49 |
| T 3 | 22 9 | 4 58 | 2 26 | 24 34 | 1 40 | 22 57 | 0 13 | 1 32 | 1 35 | 23 26 | 0 1 | 14 12 | 1 37 | 23 28 | 0 21 | 0 17 | 1 31 | 24 18 | 7 8 | 4 11 | 4 25 | 17 16 | 3 18 | 3 49 |
| F 4 | 22 17 | 8 59 | 3 24 | 24 47 | 1 44 | 23 7 | 0 15 | 1 45 | 1 35 | 23 26 | 0 1 | 14 11 | 1 36 | 23 28 | 0 21 | 0 17 | 1 31 | 24 18 | 7 9 | 4 13 | 4 26 | 17 15 | 3 20 | 3 49 |
| S 5 | 22 25 | 12 39 | 4 12 | 24 58 | 1 49 | 23 16 | 0 18 | 1 59 | 1 35 | 23 25 | 0 1 | 14 10 | 1 36 | 23 28 | 0 21 | 0 18 | 1 31 | 24 19 | 7 9 | 4 16 | 4 27 | 17 15 | 3 22 | 3 49 |
| S 6 | 22 33 | 15 39 | 4 45 | 25 8 | 1 52 | 23 24 | 0 20 | 2 12 | 1 36 | 23 25 | 0 1 | 14 9 | 1 36 | 23 28 | 0 21 | 0 18 | 1 30 | 24 19 | 7 9 | 4 20 | 4 28 | 17 14 | 3 24 | 3 49 |
| M 7 | 22 39 | 17 43 | 5 0 | 25 16 | 1 56 | 23 32 | 0 22 | 2 25 | 1 36 | 23 25 | 0 1 | 14 7 | 1 36 | 23 28 | 0 21 | 0 18 | 1 30 | 24 20 | 7 9 | 4 25 | 4 29 | 17 13 | 3 26 | 3 49 |
| T 8 | 22 46 | 18 35 | 4 54 | 25 24 | 1 59 | 23 39 | 0 25 | 2 38 | 1 36 | 23 24 | 0 1 | 14 6 | 1 36 | 23 28 | 0 21 | 0 18 | 1 30 | 24 20 | 7 10 | 4 29 | 4 31 | 17 13 | 3 28 | 3 50 |
| W 9 | 22 52 | 18 8 | 4 28 | 25 29 | 2 2 | 23 46 | 0 27 | 2 51 | 1 36 | 23 24 | 0 1 | 14 4 | 1 36 | 23 29 | 0 21 | 0 18 | 1 30 | 24 20 | 7 10 | 4 33 | 4 32 | 17 12 | 3 30 | 3 50 |
| T 10 | 22 58 | 16 26 | 3 43 | 25 33 | 2 5 | 23 51 | 0 29 | 3 4 | 1 37 | 23 23 | 0 1 | 14 3 | 1 36 | 23 29 | 0 21 | 0 18 | 1 30 | 24 21 | 7 10 | 4 37 | 4 33 | 17 12 | 3 32 | 3 50 |
| F 11 | 23 3 | 13 41 | 2 45 | 25 36 | 2 8 | 23 56 | 0 31 | 3 17 | 1 37 | 23 23 | 0 1 | 14 1 | 1 36 | 23 29 | 0 21 | 0 18 | 1 30 | 24 21 | 7 10 | 4 39 | 4 34 | 17 11 | 3 34 | 3 50 |
| S 12 | 23 7 | 10 8 | 1 37 | 25 37 | 2 10 | 24 1 | 0 34 | 3 30 | 1 37 | 23 23 | 0 2 | 14 0 | 1 36 | 23 29 | 0 21 | 0 18 | 1 30 | 24 22 | 7 10 | 4 40 | 4 36 | 17 10 | 3 35 | 3 50 |
| S 13 | 23 12 | 6 7 | 0 25 | 25 37 | 2 11 | 24 4 | 0 36 | 3 43 | 1 37 | 23 22 | 0 2 | 13 58 | 1 36 | 23 29 | 0 21 | 0 18 | 1 30 | 24 22 | 7 11 | 4 40 | 4 37 | 17 10 | 3 37 | 3 50 |
| M14 | 23 15 | 1 52 | 0n47 | 25 35 | 2 13 | 24 7 | 0 38 | 3 56 | 1 37 | 23 21 | 0 2 | 13 57 | 1 36 | 23 30 | 0 22 | 0 18 | 1 30 | 24 23 | 7 11 | 4 40 | 4 38 | 17 9 | 3 39 | 3 51 |
| T 15 | 23 19 | 2s22 | 1 54 | 25 32 | 2 13 | 24 9 | 0 40 | 4 9 | 1 38 | 23 21 | 0 2 | 13 55 | 1 35 | 23 30 | 0 22 | 0 18 | 1 30 | 24 23 | 7 11 | 4 40 | 4 39 | 17 8 | 3 40 | 3 51 |
| W16 | 23 21 | 6 24 | 2 54 | 25 27 | 2 14 | 24 10 | 0 43 | 4 22 | 1 38 | 23 20 | 0 2 | 13 54 | 1 35 | 23 30 | 0 22 | 0 18 | 1 30 | 24 24 | 7 11 | 4 41 | 4 41 | 17 8 | 3 42 | 3 51 |
| T 17 | 23 24 | 10 3 | 3 44 | 25 21 | 2 14 | 24 10 | 0 45 | 4 34 | 1 38 | 23 20 | 0 2 | 13 52 | 1 35 | 23 30 | 0 22 | 0 18 | 1 30 | 24 24 | 7 12 | 4 44 | 4 42 | 17 7 | 3 44 | 3 51 |
| F 18 | 23 26 | 13 12 | 4 22 | 25 13 | 2 13 | 24 10 | 0 47 | 4 47 | 1 38 | 23 19 | 0 2 | 13 50 | 1 35 | 23 30 | 0 22 | 0 17 | 1 30 | 24 24 | 7 12 | 4 47 | 4 43 | 17 6 | 3 45 | 3 51 |
| S 19 | 23 27 | 15 42 | 4 48 | 25 3 | 2 12 | 24 9 | 0 49 | 4 59 | 1 38 | 23 18 | 0 2 | 13 48 | 1 35 | 23 31 | 0 22 | 0 17 | 1 30 | 24 25 | 7 12 | 4 51 | 4 44 | 17 6 | 3 47 | 3 51 |
| S 20 | 23 28 | 17 29 | 4 59 | 24 52 | 2 10 | 24 7 | 0 51 | 5 12 | 1 39 | 23 18 | 0 2 | 13 47 | 1 35 | 23 31 | 0 22 | 0 17 | 1 30 | 24 25 | 7 12 | 4 57 | 4 46 | 17 5 | 3 48 | 3 52 |
| M21 | 23 28 | 18 27 | 4 57 | 24 39 | 2 8 | 24 5 | 0 53 | 5 24 | 1 39 | 23 17 | 0 2 | 13 45 | 1 35 | 23 31 | 0 22 | 0 17 | 1 30 | 24 26 | 7 12 | 5 2 | 4 47 | 17 4 | 3 49 | 3 52 |
| T 22 | 23 28 | 18 35 | 4 42 | 24 25 | 2 5 | 24 1 | 0 55 | 5 37 | 1 39 | 23 16 | 0 2 | 13 43 | 1 35 | 23 31 | 0 22 | 0 17 | 1 30 | 24 26 | 7 13 | 5 8 | 4 48 | 17 4 | 3 51 | 3 52 |
| W23 | 23 28 | 17 53 | 4 14 | 24 10 | 2 1 | 23 57 | 0 57 | 5 49 | 1 39 | 23 16 | 0 3 | 13 41 | 1 35 | 23 31 | 0 22 | 0 17 | 1 30 | 24 27 | 7 13 | 5 13 | 4 49 | 17 3 | 3 52 | 3 52 |
| T 24 | 23 27 | 16 26 | 3 35 | 23 53 | 1 57 | 23 53 | 0 59 | 6 1 | 1 39 | 23 15 | 0 3 | 13 40 | 1 35 | 23 32 | 0 22 | 0 17 | 1 30 | 24 27 | 7 13 | 5 17 | 4 51 | 17 2 | 3 53 | 3 52 |
| F 25 | 23 26 | 14 16 | 2 47 | 23 35 | 1 52 | 23 47 | 1 1 | 6 13 | 1 39 | 23 14 | 0 3 | 13 38 | 1 35 | 23 32 | 0 22 | 0 16 | 1 30 | 24 28 | 7 13 | 5 20 | 4 52 | 17 2 | 3 54 | 3 52 |
| S 26 | 23 24 | 11 31 | 1 52 | 23 15 | 1 46 | 23 41 | 1 2 | 6 25 | 1 40 | 23 13 | 0 3 | 13 36 | 1 35 | 23 32 | 0 22 | 0 16 | 1 30 | 24 28 | 7 14 | 5 22 | 4 53 | 17 1 | 3 55 | 3 53 |
| S 27 | 23 21 | 8 17 | 0 51 | 22 55 | 1 39 | 23 34 | 1 4 | 6 37 | 1 40 | 23 12 | 0 3 | 13 34 | 1 35 | 23 32 | 0 22 | 0 16 | 1 30 | 24 29 | 7 14 | 5 23 | 4 54 | 17 0 | 3 57 | 3 53 |
| M28 | 23 19 | 4 40 | 0s12 | 22 33 | 1 31 | 23 26 | 1 6 | 6 49 | 1 40 | 23 11 | 0 3 | 13 32 | 1 35 | 23 32 | 0 22 | 0 16 | 1 29 | 24 29 | 7 14 | 5 23 | 4 56 | 17 0 | 3 58 | 3 53 |
| T 29 | 23 15 | 0 48 | 1 17 | 22 10 | 1 22 | 23 18 | 1 8 | 7 1 | 1 40 | 23 10 | 0 3 | 13 30 | 1 34 | 23 32 | 0 22 | 0 15 | 1 29 | 24 30 | 7 14 | 5 23 | 4 57 | 16 59 | 3 59 | 3 53 |
| W30 | 23 11 | 3n13 | 2 20 | 21 47 | 1 12 | 23 9 | 1 9 | 7 13 | 1 40 | 23 10 | 0 3 | 13 28 | 1 34 | 23 33 | 0 22 | 0 15 | 1 29 | 24 30 | 7 14 | 5 23 | 4 58 | 16 58 | 4 0 | 3 53 |
| T 31 | 23s 7 | 7n12 | 3s17 | 21s24 | 1s 2 | 22s59 | 1s11 | 7s25 | 1n40 | 23s 9 | 0s 3 | 13s26 | 1s34 | 23n33 | 0n22 | 0s15 | 1s29 | 24n31 | 7n14 | 5n24 | 4n59 | 16s58 | 4s 0 | 3s53 |

Julian Day Number = 2341941.5, Delta T = 14.32 sec
Ecliptic obliquity = 23°28'32, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°33'05, Lahiri = 19°40'05Greg. Calendar


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