# Astrodienst Ephemeris Tables

## for the year 1448

tropical geocentric zodiac

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

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris

Code D5EPX

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

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## JANUARY 1448 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 7 14 11 | 19♑ 3'46 | 6♏27 | 23♑49 | 19♒35 | 0♏21 | 24♎15 | 26°R53 | 5°R 5 | 23°R37 | 0°R25 | 29°R57 | 0♈53 | 3♌35 | 19°R33 | M 1 |
| T 2 | 7 18 8 | 20° 4'53 | 19°58 | 25°31 | 19°R37 | 0°53 | 24°21 | 26♌50 | 5♋ 2 | 23♍36 | 0♌24 | 29♓54 | 0°49 | 3°42 | 19♉32 | T 2 |
| W 3 | 7 22 4 | 21° 6'00 | 3♐59 | 27°14 | 19°37 | 1°25 | 24°26 | 26°47 | 5° 0 | 23°36 | 0°22 | 29°48 | 0°46 | 3°48 | 19°31 | W 3 |
| T 4 | 7 26 1 | 22° 7'06 | 18°30 | 28°56 | 19°35 | 1°57 | 24°31 | 26°43 | 4°57 | 23°35 | 0°21 | 29°39 | 0°43 | 3°55 | 19°30 | T 4 |
| F 5 | 7 29 57 | 23° 8'12 | 3♑26 | 0♒39 | 19°30 | 2°29 | 24°36 | 26°40 | 4°55 | 23°34 | 0°19 | 29°29 | 0°40 | 4° 2 | 19°29 | F 5 |
| S 6 | 7 33 54 | 24° 9'17 | 18°39 | 2°22 | 19°22 | 3° 1 | 24°41 | 26°36 | 4°53 | 23°34 | 0°18 | 29°19 | 0°37 | 4° 9 | 19°28 | S 6 |
| S 7 | 7 37 50 | 25°10'21 | 3♒59 | 4° 6 | 19°12 | 3°32 | 24°45 | 26°32 | 4°50 | 23°33 | 0°17 | 29° 9 | 0°34 | 4°15 | 19°27 | S 7 |
| M 8 | 7 41 47 | 26°11'25 | 19°14 | 5°49 | 19° 0 | 4° 4 | 24°50 | 26°29 | 4°48 | 23°32 | 0°15 | 29° 1 | 0°30 | 4°22 | 19°26 | M 8 |
| T 9 | 7 45 43 | 27°12'27 | 4♓13 | 7°33 | 18°45 | 4°35 | 24°54 | 26°25 | 4°46 | 23°32 | 0°14 | 28°56 | 0°27 | 4°29 | 19°26 | T 9 |
| W10 | 7 49 40 | 28°13'28 | 18°49 | 9°17 | 18°27 | 5° 6 | 24°58 | 26°21 | 4°43 | 23°31 | 0°13 | 28°54 | 0°24 | 4°35 | 19°25 | W10 |
| T 11 | 7 53 37 | 29°14'28 | 2♈58 | 11° 0 | 18° 7 | 5°37 | 25° 2 | 26°17 | 4°41 | 23°30 | 0°11 | 28°D54 | 0°21 | 4°42 | 19°24 | T 11 |
| F 12 | 7 57 33 | 0♒15'27 | 16°41 | 12°43 | 17°45 | 6° 8 | 25° 6 | 26°13 | 4°39 | 23°29 | 0°10 | 28°54 | 0°18 | 4°49 | 19°24 | F 12 |
| S 13 | 8 1 30 | 1°16'24 | 29°58 | 14°25 | 17°21 | 6°39 | 25°10 | 26° 9 | 4°36 | 23°29 | 0° 8 | 28°R55 | 0°15 | 4°55 | 19°24 | S 13 |
| S 14 | 8 5 26 | 2°17'21 | 12♉52 | 16° 6 | 16°54 | 7°10 | 25°13 | 26° 4 | 4°34 | 23°28 | 0° 7 | 28°54 | 0°11 | 5° 2 | 19°23 | S 14 |
| M15 | 8 9 23 | 3°18'16 | 25°28 | 17°46 | 16°25 | 7°40 | 25°16 | 26° 0 | 4°32 | 23°27 | 0° 6 | 28°52 | 0° 8 | 5° 9 | 19°23 | M15 |
| T 16 | 8 13 19 | 4°19'09 | 7♊50 | 19°25 | 15°55 | 8°11 | 25°19 | 25°56 | 4°30 | 23°26 | 0° 4 | 28°47 | 0° 5 | 5°16 | 19°23 | T 16 |
| W17 | 8 17 16 | 5°20'02 | 20° 0 | 21° 1 | 15°23 | 8°41 | 25°22 | 25°52 | 4°28 | 23°25 | 0° 3 | 28°39 | 0° 2 | 5°22 | 19°22 | W17 |
| T 18 | 8 21 12 | 6°20'53 | 2♋ 3 | 22°35 | 14°49 | 9°11 | 25°25 | 25°47 | 4°26 | 23°24 | 0° 2 | 28°30 | 29♓59 | 5°29 | 19°22 | T 18 |
| F 19 | 8 25 9 | 7°21'43 | 13°59 | 24° 6 | 14°15 | 9°41 | 25°27 | 25°43 | 4°23 | 23°23 | 0° 0 | 28°20 | 29°55 | 5°36 | 19°D22 | F 19 |
| S 20 | 8 29 6 | 8°22'31 | 25°53 | 25°34 | 13°39 | 10°11 | 25°30 | 25°38 | 4°21 | 23°22 | 29♋59 | 28° 9 | 29°52 | 5°42 | 19°22 | S 20 |
| S 21 | 8 33 2 | 9°23'18 | 7♌44 | 26°57 | 13° 2 | 10°40 | 25°32 | 25°34 | 4°19 | 23°21 | 29°57 | 28° 0 | 29°49 | 5°49 | 19°23 | S 21 |
| M22 | 8 36 59 | 10°24'04 | 19°35 | 28°16 | 12°25 | 11°10 | 25°34 | 25°29 | 4°17 | 23°20 | 29°56 | 27°52 | 29°46 | 5°56 | 19°23 | M22 |
| T 23 | 8 40 55 | 11°24'48 | 1♍27 | 29°29 | 11°48 | 11°39 | 25°36 | 25°25 | 4°16 | 23°19 | 29°55 | 27°46 | 29°43 | 6° 2 | 19°23 | T 23 |
| W24 | 8 44 52 | 12°25'32 | 13°22 | 0♓36 | 11°10 | 12° 8 | 25°37 | 25°20 | 4°14 | 23°17 | 29°53 | 27°43 | 29°40 | 6° 9 | 19°23 | W24 |
| T 25 | 8 48 48 | 13°26'13 | 25°23 | 1°36 | 10°33 | 12°37 | 25°39 | 25°15 | 4°12 | 23°16 | 29°52 | 27°D41 | 29°36 | 6°16 | 19°24 | T 25 |
| F 26 | 8 52 45 | 14°26'54 | 7♎32 | 2°28 | 9°56 | 13° 6 | 25°40 | 25°11 | 4°10 | 23°15 | 29°51 | 27°42 | 29°33 | 6°23 | 19°24 | F 26 |
| S 27 | 8 56 41 | 15°27'34 | 19°55 | 3°12 | 9°21 | 13°35 | 25°41 | 25° 6 | 4° 8 | 23°14 | 29°49 | 27°43 | 29°30 | 6°29 | 19°25 | S 27 |
| S 28 | 9 0 38 | 16°28'12 | 2♏33 | 3°46 | 8°46 | 14° 3 | 25°42 | 25° 1 | 4° 6 | 23°13 | 29°48 | 27°45 | 29°27 | 6°36 | 19°25 | S 28 |
| M29 | 9 4 35 | 17°28'49 | 15°32 | 4°11 | 8°12 | 14°32 | 25°43 | 24°56 | 4° 5 | 23°11 | 29°47 | 27°R46 | 29°24 | 6°43 | 19°26 | M29 |
| T 30 | 9 8 31 | 18°29'26 | 28°55 | 4°26 | 7°40 | 15° 0 | 25°43 | 24°52 | 4° 3 | 23°10 | 29°45 | 27°45 | 29°21 | 6°49 | 19°27 | T 30 |
| W31 | 9 12 28 | 19♒30'01 | 12♐45 | 4°R30 | 7♒10 | 15♏28 | 25♎43 | 24♌47 | 4♋ 2 | 23♍ 9 | 29♋44 | 27♓43 | 29♓17 | 6♌56 | 19♉28 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22s 9 | 16s33 | 3s 1 | 23s28 | 2s 5 | 12s10 | 2n59 | 10s11 | 1n33 | 8s12 | 1n19 | 14n 3 | 1n33 | 23n45 | 0n20 | 3n46 | 1n20 | 25n22 | 5n22 | 0s 1 | 0n21 | 23n37 | 14n30 | 3s18 |
| T 2 | 22 0 | 21 31 | 3 53 | 23 9 | 2 5 | 11 56 | 3 13 | 10 22 | 1 33 | 8 14 | 1 19 | 14 4 | 1 33 | 23 45 | 0 20 | 3 46 | 1 20 | 25 22 | 5 22 | 0 3 | 0 20 | 23 35 | 14 30 | 3 18 |
| W 3 | 21 51 | 25 28 | 4 33 | 22 49 | 2 5 | 11 42 | 3 27 | 10 33 | 1 33 | 8 16 | 1 19 | 14 5 | 1 33 | 23 45 | 0 20 | 3 47 | 1 20 | 25 23 | 5 22 | 0 5 | 0 18 | 23 33 | 14 29 | 3 18 |
| T 4 | 21 41 | 27 57 | 4 57 | 22 27 | 2 4 | 11 29 | 3 42 | 10 44 | 1 33 | 8 18 | 1 20 | 14 7 | 1 34 | 23 45 | 0 20 | 3 47 | 1 20 | 25 23 | 5 22 | 0 8 | 0 17 | 23 31 | 14 29 | 3 18 |
| F 5 | 21 31 | 28 30 | 5 2 | 22 4 | 2 2 | 11 16 | 3 56 | 10 55 | 1 33 | 8 19 | 1 20 | 14 8 | 1 34 | 23 46 | 0 20 | 3 47 | 1 20 | 25 23 | 5 23 | 0 12 | 0 16 | 23 29 | 14 29 | 3 18 |
| S 6 | 21 21 | 26 55 | 4 46 | 21 39 | 2 0 | 11 5 | 4 11 | 11 6 | 1 33 | 8 21 | 1 20 | 14 10 | 1 34 | 23 46 | 0 20 | 3 47 | 1 20 | 25 24 | 5 23 | 0 17 | 0 15 | 23 27 | 14 29 | 3 17 |
| S 7 | 21 10 | 23 21 | 4 9 | 21 12 | 1 58 | 10 54 | 4 26 | 11 17 | 1 33 | 8 22 | 1 20 | 14 11 | 1 34 | 23 46 | 0 20 | 3 48 | 1 20 | 25 24 | 5 23 | 0 20 | 0 13 | 23 25 | 14 29 | 3 17 |
| M 8 | 20 59 | 18 11 | 3 15 | 20 43 | 1 54 | 10 43 | 4 41 | 11 27 | 1 33 | 8 24 | 1 21 | 14 12 | 1 34 | 23 46 | 0 20 | 3 48 | 1 20 | 25 25 | 5 23 | 0 23 | 0 12 | 23 23 | 14 29 | 3 17 |
| T 9 | 20 47 | 11 59 | 2 8 | 20 13 | 1 51 | 10 34 | 4 56 | 11 38 | 1 33 | 8 25 | 1 21 | 14 14 | 1 35 | 23 46 | 0 20 | 3 48 | 1 20 | 25 25 | 5 23 | 0 25 | 0 11 | 23 21 | 14 29 | 3 17 |
| W10 | 20 35 | 5 16 | 0 54 | 19 42 | 1 46 | 10 25 | 5 10 | 11 48 | 1 33 | 8 26 | 1 21 | 14 15 | 1 35 | 23 46 | 0 20 | 3 49 | 1 20 | 25 25 | 5 23 | 0 26 | 0 10 | 23 18 | 14 29 | 3 17 |
| T 11 | 20 22 | 1n31 | 0n22 | 19 9 | 1 41 | 10 17 | 5 25 | 11 59 | 1 33 | 8 28 | 1 21 | 14 17 | 1 35 | 23 46 | 0 20 | 3 49 | 1 21 | 25 26 | 5 23 | 0 26 | 0 8 | 23 16 | 14 29 | 3 17 |
| F 12 | 20 9 | 8 1 | 1 34 | 18 34 | 1 35 | 10 10 | 5 39 | 12 9 | 1 33 | 8 29 | 1 21 | 14 19 | 1 35 | 23 46 | 0 20 | 3 49 | 1 21 | 25 26 | 5 23 | 0 26 | 0 7 | 23 14 | 14 29 | 3 17 |
| S 13 | 19 56 | 13 58 | 2 38 | 17 58 | 1 29 | 10 4 | 5 53 | 12 19 | 1 33 | 8 30 | 1 22 | 14 20 | 1 35 | 23 46 | 0 20 | 3 50 | 1 21 | 25 26 | 5 23 | 0 26 | 0 6 | 23 12 | 14 29 | 3 17 |
| S 14 | 19 43 | 19 8 | 3 33 | 17 21 | 1 22 | 9 59 | 6 7 | 12 29 | 1 32 | 8 31 | 1 22 | 14 22 | 1 35 | 23 46 | 0 20 | 3 50 | 1 21 | 25 27 | 5 23 | 0 26 | 0 5 | 23 10 | 14 29 | 3 16 |
| M15 | 19 29 | 23 19 | 4 16 | 16 43 | 1 14 | 9 54 | 6 20 | 12 39 | 1 32 | 8 32 | 1 22 | 14 23 | 1 36 | 23 46 | 0 20 | 3 51 | 1 21 | 25 27 | 5 23 | 0 27 | 0 3 | 23 8 | 14 29 | 3 16 |
| T 16 | 19 14 | 26 23 | 4 46 | 16 4 | 1 5 | 9 51 | 6 33 | 12 49 | 1 32 | 8 33 | 1 22 | 14 25 | 1 36 | 23 46 | 0 20 | 3 51 | 1 21 | 25 28 | 5 23 | 0 29 | 0 2 | 23 5 | 14 29 | 3 16 |
| W17 | 19 0 | 28 9 | 5 2 | 15 25 | 0 55 | 9 48 | 6 46 | 12 59 | 1 32 | 8 34 | 1 23 | 14 27 | 1 36 | 23 47 | 0 20 | 3 51 | 1 21 | 25 28 | 5 23 | 0 32 | 0 1 | 23 3 | 14 29 | 3 16 |
| T 18 | 18 45 | 28 35 | 5 5 | 14 44 | 0 45 | 9 47 | 6 57 | 13 9 | 1 32 | 8 34 | 1 23 | 14 28 | 1 36 | 23 47 | 0 20 | 3 52 | 1 21 | 25 28 | 5 23 | 0 36 | 0s 1 | 23 1 | 14 29 | 3 16 |
| F 19 | 18 29 | 27 39 | 4 54 | 14 4 | 0 34 | 9 46 | 7 8 | 13 18 | 1 32 | 8 35 | 1 23 | 14 30 | 1 36 | 23 47 | 0 20 | 3 52 | 1 21 | 25 29 | 5 24 | 0 40 | 0 2 | 22 59 | 14 29 | 3 16 |
| S 20 | 18 14 | 25 28 | 4 31 | 13 23 | 0 22 | 9 46 | 7 19 | 13 28 | 1 32 | 8 36 | 1 23 | 14 31 | 1 36 | 23 47 | 0 20 | 3 53 | 1 21 | 25 29 | 5 24 | 0 44 | 0 3 | 22 57 | 14 29 | 3 16 |
| S 21 | 17 58 | 22 11 | 3 56 | 12 43 | 0 9 | 9 47 | 7 28 | 13 37 | 1 32 | 8 36 | 1 24 | 14 33 | 1 37 | 23 47 | 0 20 | 3 53 | 1 21 | 25 29 | 5 24 | 0 48 | 0 4 | 22 55 | 14 29 | 3 16 |
| M22 | 17 41 | 18 0 | 3 11 | 12 3 | 0n 4 | 9 49 | 7 37 | 13 47 | 1 31 | 8 37 | 1 24 | 14 35 | 1 37 | 23 47 | 0 20 | 3 54 | 1 21 | 25 30 | 5 24 | 0 51 | 0 6 | 22 52 | 14 29 | 3 15 |
| T 23 | 17 25 | 13 7 | 2 17 | 11 24 | 0 19 | 9 51 | 7 45 | 13 56 | 1 31 | 8 37 | 1 24 | 14 37 | 1 37 | 23 47 | 0 20 | 3 54 | 1 21 | 25 30 | 5 24 | 0 53 | 0 7 | 22 50 | 14 30 | 3 15 |
| W24 | 17 8 | 7 44 | 1 17 | 10 47 | 0 33 | 9 54 | 7 52 | 14 5 | 1 31 | 8 38 | 1 24 | 14 38 | 1 37 | 23 47 | 0 20 | 3 55 | 1 21 | 25 30 | 5 24 | 0 55 | 0 8 | 22 48 | 14 30 | 3 15 |
| T 25 | 16 50 | 2 2 | 0 13 | 10 11 | 0 49 | 9 58 | 7 58 | 14 14 | 1 31 | 8 38 | 1 24 | 14 40 | 1 37 | 23 47 | 0 20 | 3 55 | 1 21 | 25 31 | 5 24 | 0 55 | 0 9 | 22 46 | 14 30 | 3 15 |
| F 26 | 16 33 | 3s49 | 0s53 | 9 37 | 1 5 | 10 3 | 8 3 | 14 23 | 1 31 | 8 38 | 1 25 | 14 42 | 1 37 | 23 47 | 0 20 | 3 56 | 1 21 | 25 31 | 5 24 | 0 55 | 0 11 | 22 44 | 14 30 | 3 15 |
| S 27 | 16 15 | 9 37 | 1 58 | 9 7 | 1 21 | 10 8 | 8 7 | 14 31 | 1 31 | 8 38 | 1 25 | 14 43 | 1 37 | 23 47 | 0 20 | 3 56 | 1 21 | 25 31 | 5 24 | 0 55 | 0 12 | 22 41 | 14 31 | 3 15 |
| S 28 | 15 57 | 15 11 | 2 58 | 8 39 | 1 37 | 10 14 | 8 10 | 14 40 | 1 30 | 8 38 | 1 25 | 14 45 | 1 37 | 23 47 | 0 20 | 3 57 | 1 21 | 25 32 | 5 24 | 0 54 | 0 13 | 22 39 | 14 31 | 3 15 |
| M29 | 15 39 | 20 13 | 3 51 | 8 15 | 1 53 | 10 20 | 8 13 | 14 49 | 1 30 | 8 39 | 1 25 | 14 47 | 1 38 | 23 47 | 0 20 | 3 57 | 1 21 | 25 32 | 5 24 | 0 54 | 0 14 | 22 37 | 14 31 | 3 15 |
| T 30 | 15 20 | 24 25 | 4 33 | 7 54 | 2 9 | 10 26 | 8 14 | 14 57 | 1 30 | 8 38 | 1 26 | 14 48 | 1 38 | 23 47 | 0 20 | 3 58 | 1 21 | 25 32 | 5 24 | 0 54 | 0 16 | 22 35 | 14 32 | 3 14 |
| W31 | 15s 1 | 27s22 | 5s 0 | 7s38 | 2n25 | 10s33 | 8n15 | 15s 6 | 1n30 | 8s38 | 1n26 | 14n50 | 1n38 | 23n47 | 0n20 | 3n58 | 1n21 | 25n33 | 5n24 | 0s55 | 0s17 | 22n32 | 14n32 | 3s14 |

Julian Day Number = 2249939.5, Delta T = 06m33s
Ecliptic obliquity = 23°30'48, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'22, Lahiri = 16°09'22 Julian Calendar 1 Jan. 1448 == Greg. Calendar 10 Jan. 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## FEBRUARY 1448 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 9 16 24 | 20♒30'34 | 27♐ 2 | 4°R25 | 6°R41 | 15♏55 | 25°R44 | 24°R42 | 4°R 0 | 23°R 7 | 29°R43 | 27°R39 | 29♓14 | 7♌ 3 | 19♉29 | T 1 |
| F 2 | 9 20 21 | 21°31'07 | 11♑43 | 4♓ 8 | 6♒14 | 16°23 | 25♎43 | 24♌37 | 3♋58 | 23♍ 6 | 29♋42 | 27♓34 | 29°11 | 7° 9 | 19°30 | F 2 |
| S 3 | 9 24 17 | 22°31'38 | 26°45 | 3°42 | 5°50 | 16°50 | 25°43 | 24°32 | 3°57 | 23° 5 | 29°40 | 27°29 | 29° 8 | 7°16 | 19°31 | S 3 |
| S 4 | 9 28 14 | 23°32'08 | 11♒58 | 3° 7 | 5°27 | 17°17 | 25°43 | 24°28 | 3°56 | 23° 3 | 29°39 | 27°24 | 29° 5 | 7°23 | 19°32 | S 4 |
| M 5 | 9 32 11 | 24°32'36 | 27°11 | 2°24 | 5° 7 | 17°44 | 25°42 | 24°23 | 3°54 | 23° 2 | 29°38 | 27°20 | 29° 1 | 7°29 | 19°33 | M 5 |
| T 6 | 9 36 7 | 25°33'02 | 12♓16 | 1°33 | 4°49 | 18°11 | 25°41 | 24°18 | 3°53 | 23° 1 | 29°37 | 27°17 | 28°58 | 7°36 | 19°34 | T 6 |
| W 7 | 9 40 4 | 26°33'26 | 27° 2 | 0°36 | 4°34 | 18°37 | 25°40 | 24°13 | 3°51 | 22°59 | 29°35 | 27°D16 | 28°55 | 7°43 | 19°35 | W 7 |
| T 8 | 9 44 0 | 27°33'49 | 11♈24 | 29♒35 | 4°21 | 19° 3 | 25°39 | 24° 8 | 3°50 | 22°58 | 29°34 | 27°17 | 28°52 | 7°50 | 19°37 | T 8 |
| F 9 | 9 47 57 | 28°34'09 | 25°19 | 28°32 | 4°10 | 19°29 | 25°38 | 24° 3 | 3°49 | 22°56 | 29°33 | 27°18 | 28°49 | 7°56 | 19°38 | F 9 |
| S 10 | 9 51 53 | 29°34'28 | 8♉46 | 27°27 | 4° 2 | 19°55 | 25°36 | 23°59 | 3°48 | 22°55 | 29°32 | 27°20 | 28°46 | 8° 3 | 19°40 | S 10 |
| S 11 | 9 55 50 | 0♓34'44 | 21°48 | 26°23 | 3°57 | 20°21 | 25°34 | 23°54 | 3°47 | 22°53 | 29°31 | 27°21 | 28°42 | 8°10 | 19°41 | S 11 |
| M12 | 9 59 46 | 1°34'59 | 4♊27 | 25°20 | 3°53 | 20°46 | 25°32 | 23°49 | 3°46 | 22°52 | 29°30 | 27°R22 | 28°39 | 8°16 | 19°43 | M12 |
| T 13 | 10 3 43 | 2°35'11 | 16°49 | 24°21 | 3°D53 | 21°11 | 25°30 | 23°44 | 3°45 | 22°50 | 29°28 | 27°21 | 28°36 | 8°23 | 19°45 | T 13 |
| W14 | 10 7 39 | 3°35'22 | 28°57 | 23°26 | 3°54 | 21°35 | 25°28 | 23°39 | 3°44 | 22°49 | 29°27 | 27°19 | 28°33 | 8°30 | 19°47 | W14 |
| T 15 | 10 11 36 | 4°35'30 | 10♋55 | 22°37 | 3°58 | 22° 0 | 25°25 | 23°35 | 3°43 | 22°47 | 29°26 | 27°16 | 28°30 | 8°36 | 19°48 | T 15 |
| F 16 | 10 15 33 | 5°35'37 | 22°47 | 21°53 | 4° 5 | 22°24 | 25°23 | 23°30 | 3°42 | 22°46 | 29°25 | 27°12 | 28°27 | 8°43 | 19°50 | F 16 |
| S 17 | 10 19 29 | 6°35'41 | 4♌38 | 21°16 | 4°13 | 22°48 | 25°20 | 23°25 | 3°41 | 22°44 | 29°24 | 27° 8 | 28°23 | 8°50 | 19°52 | S 17 |
| S 18 | 10 23 26 | 7°35'43 | 16°28 | 20°46 | 4°24 | 23°11 | 25°17 | 23°21 | 3°40 | 22°42 | 29°23 | 27° 5 | 28°20 | 8°56 | 19°54 | S 18 |
| M19 | 10 27 22 | 8°35'43 | 28°21 | 20°22 | 4°37 | 23°35 | 25°13 | 23°16 | 3°40 | 22°41 | 29°22 | 27° 2 | 28°17 | 9° 3 | 19°57 | M19 |
| T 20 | 10 31 19 | 9°35'41 | 10♍19 | 20° 5 | 4°52 | 23°58 | 25°10 | 23°12 | 3°39 | 22°39 | 29°21 | 27° 1 | 28°14 | 9°10 | 19°59 | T 20 |
| W21 | 10 35 15 | 10°35'37 | 22°23 | 19°55 | 5° 9 | 24°20 | 25° 6 | 23° 7 | 3°39 | 22°38 | 29°20 | 27°D 0 | 28°11 | 9°17 | 20° 1 | W21 |
| T 22 | 10 39 12 | 11°35'32 | 4♎36 | 19°D51 | 5°28 | 24°43 | 25° 3 | 23° 3 | 3°38 | 22°36 | 29°19 | 27° 0 | 28° 7 | 9°23 | 20° 3 | T 22 |
| F 23 | 10 43 8 | 12°35'24 | 16°59 | 19°54 | 5°49 | 25° 5 | 24°59 | 22°58 | 3°37 | 22°34 | 29°18 | 27° 1 | 28° 4 | 9°30 | 20° 6 | F 23 |
| S 24 | 10 47 5 | 13°35'15 | 29°33 | 20° 2 | 6°12 | 25°27 | 24°55 | 22°54 | 3°37 | 22°33 | 29°17 | 27° 2 | 28° 1 | 9°37 | 20° 8 | S 24 |
| S 25 | 10 51 2 | 14°35'03 | 12♏22 | 20°17 | 6°37 | 25°48 | 24°50 | 22°50 | 3°37 | 22°31 | 29°16 | 27° 3 | 27°58 | 9°43 | 20°10 | S 25 |
| M26 | 10 54 58 | 15°34'51 | 25°27 | 20°36 | 7° 3 | 26° 9 | 24°46 | 22°45 | 3°36 | 22°30 | 29°15 | 27° 4 | 27°55 | 9°50 | 20°13 | M26 |
| T 27 | 10 58 55 | 16°34'36 | 8♐51 | 21° 1 | 7°31 | 26°30 | 24°41 | 22°41 | 3°36 | 22°28 | 29°14 | 27° 5 | 27°52 | 9°57 | 20°16 | T 27 |
| W28 | 11 2 51 | 17°34'20 | 22°34 | 21°30 | 8° 0 | 26°50 | 24°37 | 22°37 | 3°36 | 22°26 | 29°14 | 27°R 5 | 27°48 | 10° 3 | 20°18 | W28 |
| T 29 | 11 6 48 | 18♓34'02 | 6♑38 | 22♒ 4 | 8♒31 | 27♏10 | 24♎32 | 22♌33 | 3♋36 | 22♍25 | 29♋13 | 27♓ 4 | 27♓45 | 10♌10 | 20♉21 | T 29 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 14s42 | 28s40 | 5s11 | 7s26 | 2n40 | 10s40 | 8n14 | 15s14 | 1n29 | 8s38 | 1n26 | 14n52 | 1n38 | 23n47 | 0n20 | 3n59 | 1n21 | 25n33 | 5n24 | 0s56 | 0s18 | 22n30 | 14n32 | 3s14 |
| F 2 | 14 22 | 28 0 | 5 2 | 7 19 | 2 54 | 10 48 | 8 13 | 15 22 | 1 29 | 8 38 | 1 26 | 14 54 | 1 38 | 23 47 | 0 20 | 3 59 | 1 21 | 25 33 | 5 24 | 0 58 | 0 20 | 22 28 | 14 33 | 3 14 |
| S 3 | 14 3 | 25 19 | 4 32 | 7 17 | 3 7 | 10 56 | 8 11 | 15 30 | 1 29 | 8 38 | 1 27 | 14 55 | 1 38 | 23 48 | 0 20 | 4 0 | 1 21 | 25 33 | 5 24 | 1 0 | 0 21 | 22 26 | 14 33 | 3 14 |
| S 4 | 13 43 | 20 49 | 3 42 | 7 19 | 3 18 | 11 4 | 8 9 | 15 38 | 1 29 | 8 37 | 1 27 | 14 57 | 1 38 | 23 48 | 0 20 | 4 1 | 1 21 | 25 34 | 5 24 | 1 2 | 0 22 | 22 23 | 14 33 | 3 14 |
| M 5 | 13 23 | 14 56 | 2 37 | 7 25 | 3 28 | 11 12 | 8 5 | 15 46 | 1 28 | 8 37 | 1 27 | 14 59 | 1 38 | 23 48 | 0 20 | 4 1 | 1 21 | 25 34 | 5 24 | 1 4 | 0 23 | 22 21 | 14 34 | 3 14 |
| T 6 | 13 3 | 8 14 | 1 21 | 7 36 | 3 35 | 11 20 | 8 1 | 15 53 | 1 28 | 8 36 | 1 27 | 15 0 | 1 38 | 23 48 | 0 20 | 4 2 | 1 22 | 25 34 | 5 24 | 1 5 | 0 25 | 22 19 | 14 34 | 3 14 |
| W 7 | 12 42 | 1 12 | 0 1 | 7 51 | 3 41 | 11 28 | 7 56 | 16 1 | 1 28 | 8 36 | 1 27 | 15 2 | 1 38 | 23 48 | 0 20 | 4 2 | 1 22 | 25 35 | 5 24 | 1 5 | 0 26 | 22 16 | 14 35 | 3 13 |
| T 8 | 12 21 | 5n42 | 1n17 | 8 9 | 3 44 | 11 36 | 7 51 | 16 8 | 1 27 | 8 35 | 1 28 | 15 4 | 1 39 | 23 48 | 0 20 | 4 3 | 1 22 | 25 35 | 5 24 | 1 5 | 0 27 | 22 14 | 14 35 | 3 13 |
| F 9 | 12 0 | 12 7 | 2 28 | 8 30 | 3 45 | 11 44 | 7 45 | 16 16 | 1 27 | 8 34 | 1 28 | 15 6 | 1 39 | 23 48 | 0 20 | 4 4 | 1 22 | 25 35 | 5 24 | 1 4 | 0 28 | 22 12 | 14 36 | 3 13 |
| S 10 | 11 39 | 17 45 | 3 28 | 8 53 | 3 44 | 11 52 | 7 39 | 16 23 | 1 27 | 8 34 | 1 28 | 15 7 | 1 39 | 23 48 | 0 20 | 4 4 | 1 22 | 25 35 | 5 24 | 1 4 | 0 30 | 22 10 | 14 36 | 3 13 |
| S 11 | 11 18 | 22 23 | 4 16 | 9 18 | 3 41 | 12 0 | 7 32 | 16 30 | 1 26 | 8 33 | 1 28 | 15 9 | 1 39 | 23 48 | 0 20 | 4 5 | 1 22 | 25 36 | 5 24 | 1 3 | 0 31 | 22 7 | 14 37 | 3 13 |
| M12 | 10 57 | 25 50 | 4 50 | 9 44 | 3 36 | 12 7 | 7 25 | 16 37 | 1 26 | 8 32 | 1 29 | 15 11 | 1 39 | 23 48 | 0 20 | 4 5 | 1 22 | 25 36 | 5 24 | 1 3 | 0 32 | 22 5 | 14 37 | 3 13 |
| T 13 | 10 35 | 27 59 | 5 9 | 10 10 | 3 29 | 12 15 | 7 18 | 16 44 | 1 25 | 8 31 | 1 29 | 15 12 | 1 39 | 23 48 | 0 20 | 4 6 | 1 22 | 25 36 | 5 24 | 1 4 | 0 33 | 22 3 | 14 38 | 3 13 |
| W14 | 10 13 | 28 45 | 5 14 | 10 36 | 3 20 | 12 22 | 7 10 | 16 51 | 1 25 | 8 30 | 1 29 | 15 14 | 1 39 | 23 48 | 0 20 | 4 7 | 1 22 | 25 36 | 5 24 | 1 4 | 0 35 | 22 0 | 14 39 | 3 13 |
| T 15 | 9 51 | 28 8 | 5 5 | 11 2 | 3 10 | 12 29 | 7 2 | 16 58 | 1 24 | 8 29 | 1 29 | 15 15 | 1 39 | 23 48 | 0 20 | 4 7 | 1 22 | 25 37 | 5 24 | 1 6 | 0 36 | 21 58 | 14 39 | 3 12 |
| F 16 | 9 29 | 26 14 | 4 44 | 11 26 | 2 58 | 12 35 | 6 54 | 17 4 | 1 24 | 8 27 | 1 29 | 15 17 | 1 39 | 23 48 | 0 20 | 4 8 | 1 22 | 25 37 | 5 24 | 1 7 | 0 37 | 21 56 | 14 40 | 3 12 |
| S 17 | 9 7 | 23 12 | 4 10 | 11 50 | 2 46 | 12 42 | 6 45 | 17 11 | 1 24 | 8 26 | 1 30 | 15 19 | 1 39 | 23 48 | 0 20 | 4 9 | 1 22 | 25 37 | 5 24 | 1 8 | 0 39 | 21 53 | 14 40 | 3 12 |
| S 18 | 8 45 | 19 13 | 3 25 | 12 12 | 2 33 | 12 48 | 6 36 | 17 17 | 1 23 | 8 25 | 1 30 | 15 20 | 1 39 | 23 48 | 0 20 | 4 9 | 1 22 | 25 37 | 5 24 | 1 10 | 0 40 | 21 51 | 14 41 | 3 12 |
| M19 | 8 22 | 14 27 | 2 32 | 12 32 | 2 20 | 12 53 | 6 28 | 17 24 | 1 23 | 8 24 | 1 30 | 15 22 | 1 39 | 23 48 | 0 20 | 4 10 | 1 22 | 25 37 | 5 24 | 1 11 | 0 41 | 21 48 | 14 42 | 3 12 |
| T 20 | 8 0 | 9 7 | 1 31 | 12 51 | 2 6 | 12 59 | 6 18 | 17 30 | 1 22 | 8 22 | 1 30 | 15 23 | 1 39 | 23 48 | 0 20 | 4 11 | 1 22 | 25 38 | 5 24 | 1 12 | 0 42 | 21 46 | 14 42 | 3 12 |
| W21 | 7 37 | 3 25 | 0 25 | 13 7 | 1 52 | 13 4 | 6 9 | 17 36 | 1 21 | 8 21 | 1 30 | 15 25 | 1 39 | 23 48 | 0 20 | 4 11 | 1 22 | 25 38 | 5 24 | 1 12 | 0 44 | 21 44 | 14 43 | 3 12 |
| T 22 | 7 14 | 2s28 | 0s42 | 13 22 | 1 37 | 13 8 | 6 0 | 17 42 | 1 21 | 8 19 | 1 31 | 15 26 | 1 39 | 23 48 | 0 20 | 4 12 | 1 22 | 25 38 | 5 24 | 1 12 | 0 45 | 21 41 | 14 44 | 3 12 |
| F 23 | 6 51 | 8 21 | 1 48 | 13 34 | 1 23 | 13 12 | 5 51 | 17 48 | 1 20 | 8 17 | 1 31 | 15 28 | 1 39 | 23 48 | 0 20 | 4 13 | 1 22 | 25 38 | 5 24 | 1 12 | 0 46 | 21 39 | 14 45 | 3 12 |
| S 24 | 6 28 | 14 0 | 2 51 | 13 45 | 1 9 | 13 16 | 5 41 | 17 54 | 1 20 | 8 16 | 1 31 | 15 29 | 1 39 | 23 48 | 0 20 | 4 13 | 1 22 | 25 38 | 5 24 | 1 11 | 0 47 | 21 37 | 14 45 | 3 11 |
| S 25 | 6 5 | 19 10 | 3 46 | 13 53 | 0 56 | 13 19 | 5 32 | 17 59 | 1 19 | 8 14 | 1 31 | 15 31 | 1 39 | 23 48 | 0 20 | 4 14 | 1 22 | 25 39 | 5 24 | 1 11 | 0 49 | 21 34 | 14 46 | 3 11 |
| M26 | 5 42 | 23 33 | 4 30 | 14 0 | 0 42 | 13 22 | 5 23 | 18 5 | 1 18 | 8 12 | 1 31 | 15 32 | 1 39 | 23 48 | 0 20 | 4 15 | 1 22 | 25 39 | 5 24 | 1 10 | 0 50 | 21 32 | 14 47 | 3 11 |
| T 27 | 5 19 | 26 48 | 5 1 | 14 5 | 0 29 | 13 24 | 5 13 | 18 10 | 1 18 | 8 10 | 1 32 | 15 34 | 1 39 | 23 48 | 0 20 | 4 15 | 1 22 | 25 39 | 5 24 | 1 10 | 0 51 | 21 29 | 14 48 | 3 11 |
| W28 | 4 56 | 28 34 | 5 16 | 14 7 | 0 16 | 13 26 | 5 4 | 18 16 | 1 17 | 8 9 | 1 32 | 15 35 | 1 39 | 23 48 | 0 20 | 4 16 | 1 22 | 25 39 | 5 24 | 1 10 | 0 52 | 21 27 | 14 48 | 3 11 |
| T 29 | 4s32 | 28s33 | 5s13 | 14s 8 | 0n 4 | 13s27 | 4n54 | 18s21 | 1n16 | 8s 7 | 1n32 | 15n36 | 1n39 | 23n48 | 0n20 | 4n17 | 1n22 | 25n39 | 5n24 | 1s10 | 0s54 | 21n25 | 14n49 | 3s11 |

Julian Day Number = 2249970.5, Delta T = 06m33s
Ecliptic obliquity = 23°30'49, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'26, Lahiri = 16°09'26 Julian Calendar 1 Feb. 1448 == Greg. Calendar 10 Feb. 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## MARCH 1448 JC

**00:00 UT**

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 11 10 44 | 19♓33'43 | 21♉ 2 | 22♒42 | 9♒ 4 | 27♏30 | 24°R27 | 22°R29 | 3°R36 | 22°R23 | 29°R12 | 27°R 4 | 27♓42 | 10♌17 | 20♉24 | F 1 |
| S 2 | 11 14 41 | 20°33'22 | 5♒41 | 23°24 | 9°38 | 27°49 | 24♎22 | 22♌25 | 3♋35 | 22♍21 | 29♋11 | 27♓ 3 | 27°39 | 10°23 | 20°26 | S 2 |
| S 3 | 11 18 37 | 21°32'58 | 20°31 | 24°10 | 10°13 | 28° 8 | 24°16 | 22°21 | 3°D35 | 22°20 | 29°10 | 27° 2 | 27°36 | 10°30 | 20°29 | S 3 |
| M 4 | 11 22 34 | 22°32'33 | 5♓26 | 24°59 | 10°49 | 28°26 | 24°11 | 22°17 | 3°35 | 22°18 | 29°10 | 27° 2 | 27°33 | 10°37 | 20°32 | M 4 |
| T 5 | 11 26 31 | 23°32'06 | 20°17 | 25°52 | 11°27 | 28°44 | 24° 5 | 22°13 | 3°36 | 22°16 | 29° 9 | 27°D 1 | 27°29 | 10°43 | 20°35 | T 5 |
| W 6 | 11 30 27 | 24°31'37 | 4♈57 | 26°47 | 12° 6 | 29° 1 | 23°59 | 22° 9 | 3°36 | 22°15 | 29° 8 | 27° 1 | 27°26 | 10°50 | 20°38 | W 6 |
| T 7 | 11 34 24 | 25°31'06 | 19°18 | 27°46 | 12°46 | 29°18 | 23°54 | 22° 6 | 3°36 | 22°13 | 29° 8 | 27° 2 | 27°23 | 10°57 | 20°41 | T 7 |
| F 8 | 11 38 20 | 26°30'32 | 3♉17 | 28°47 | 13°27 | 29°35 | 23°48 | 22° 2 | 3°36 | 22°11 | 29° 7 | 27° 2 | 27°20 | 11° 4 | 20°44 | F 8 |
| S 9 | 11 42 17 | 27°29'57 | 16°51 | 29°50 | 14° 9 | 29°51 | 23°41 | 21°59 | 3°37 | 22°10 | 29° 6 | 27°R 2 | 27°17 | 11°10 | 20°48 | S 9 |
| S 10 | 11 46 13 | 28°29'19 | 29°59 | 0♓57 | 14°52 | 0♐ 7 | 23°35 | 21°55 | 3°37 | 22° 8 | 29° 6 | 27° 2 | 27°13 | 11°17 | 20°51 | S 10 |
| M11 | 11 50 10 | 29°28'39 | 12♊45 | 2° 5 | 15°36 | 0°22 | 23°29 | 21°52 | 3°37 | 22° 6 | 29° 5 | 27° 1 | 27°10 | 11°24 | 20°54 | M11 |
| T 12 | 11 54 6 | 0♈27'56 | 25°11 | 3°16 | 16°22 | 0°37 | 23°22 | 21°49 | 3°38 | 22° 5 | 29° 5 | 27°D 1 | 27° 7 | 11°30 | 20°57 | T 12 |
| W13 | 11 58 3 | 1°27'11 | 7♋21 | 4°29 | 17° 7 | 0°51 | 23°16 | 21°46 | 3°38 | 22° 3 | 29° 4 | 27° 1 | 27° 4 | 11°37 | 21° 1 | W13 |
| T 14 | 12 2 0 | 2°26'24 | 19°20 | 5°43 | 17°54 | 1° 5 | 23° 9 | 21°43 | 3°39 | 22° 1 | 29° 3 | 27° 2 | 27° 1 | 11°44 | 21° 4 | T 14 |
| F 15 | 12 5 56 | 3°25'35 | 1♌12 | 7° 0 | 18°42 | 1°18 | 23° 2 | 21°40 | 3°40 | 22° 0 | 29° 3 | 27° 2 | 26°58 | 11°50 | 21° 8 | F 15 |
| S 16 | 12 9 53 | 4°24'43 | 13° 2 | 8°19 | 19°30 | 1°31 | 22°55 | 21°37 | 3°40 | 21°58 | 29° 3 | 27° 3 | 26°54 | 11°57 | 21°11 | S 16 |
| S 17 | 12 13 49 | 5°23'49 | 24°53 | 9°40 | 20°20 | 1°43 | 22°48 | 21°34 | 3°41 | 21°57 | 29° 2 | 27° 4 | 26°51 | 12° 4 | 21°15 | S 17 |
| M18 | 12 17 46 | 6°22'52 | 6♍50 | 11° 2 | 21° 9 | 1°55 | 22°41 | 21°31 | 3°42 | 21°55 | 29° 2 | 27° 4 | 26°48 | 12°10 | 21°18 | M18 |
| T 19 | 12 21 42 | 7°21'54 | 18°55 | 12°26 | 22° 0 | 2° 6 | 22°34 | 21°28 | 3°43 | 21°53 | 29° 1 | 27° 5 | 26°45 | 12°17 | 21°22 | T 19 |
| W20 | 12 25 39 | 8°20'53 | 1♎11 | 13°52 | 22°51 | 2°16 | 22°27 | 21°26 | 3°43 | 21°52 | 29° 1 | 27°R 5 | 26°42 | 12°24 | 21°26 | W20 |
| T 21 | 12 29 35 | 9°19'50 | 13°39 | 15°19 | 23°43 | 2°26 | 22°20 | 21°24 | 3°44 | 21°50 | 29° 1 | 27° 5 | 26°38 | 12°30 | 21°29 | T 21 |
| F 22 | 12 33 32 | 10°18'45 | 26°20 | 16°49 | 24°36 | 2°36 | 22°13 | 21°21 | 3°45 | 21°49 | 29° 0 | 27° 3 | 26°35 | 12°37 | 21°33 | F 22 |
| S 23 | 12 37 29 | 11°17'38 | 9♏15 | 18°19 | 25°29 | 2°44 | 22° 5 | 21°19 | 3°46 | 21°47 | 29° 0 | 27° 2 | 26°32 | 12°44 | 21°37 | S 23 |
| S 24 | 12 41 25 | 12°16'30 | 22°24 | 19°52 | 26°23 | 2°53 | 21°58 | 21°17 | 3°48 | 21°46 | 29° 0 | 27° 0 | 26°29 | 12°50 | 21°41 | S 24 |
| M25 | 12 45 22 | 13°15'19 | 5♐47 | 21°26 | 27°17 | 3° 0 | 21°50 | 21°15 | 3°49 | 21°44 | 29° 0 | 26°57 | 26°26 | 12°57 | 21°44 | M25 |
| T 26 | 12 49 18 | 14°14'07 | 19°23 | 23° 1 | 28°12 | 3° 7 | 21°43 | 21°13 | 3°50 | 21°43 | 28°59 | 26°56 | 26°23 | 13° 4 | 21°48 | T 26 |
| W27 | 12 53 15 | 15°12'53 | 3♑12 | 24°39 | 29° 8 | 3°13 | 21°35 | 21°11 | 3°51 | 21°41 | 28°59 | 26°54 | 26°19 | 13°11 | 21°52 | W27 |
| T 28 | 12 57 11 | 16°11'38 | 17°12 | 26°17 | 0♓ 4 | 3°19 | 21°28 | 21° 9 | 3°53 | 21°40 | 28°59 | 26°D54 | 26°16 | 13°17 | 21°56 | T 28 |
| F 29 | 13 1 8 | 17°10'20 | 1♒23 | 27°58 | 1° 0 | 3°24 | 21°20 | 21° 7 | 3°54 | 21°38 | 28°59 | 26°54 | 26°13 | 13°24 | 22° 0 | F 29 |
| S 30 | 13 5 4 | 18° 9'01 | 15°43 | 29°40 | 1°57 | 3°28 | 21°12 | 21° 6 | 3°55 | 21°37 | 28°59 | 26°56 | 26°10 | 13°31 | 22° 4 | S 30 |
| S 31 | 13 9 1 | 19♈ 7'41 | 0♓ 8 | 1♈23 | 2♓54 | 3♐31 | 21♎ 5 | 21♌ 4 | 3♋57 | 21♍35 | 28♋59 | 26♓57 | 26♓ 7 | 13♌37 | 22♉ 8 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| F 1 | 4s 9 | 26s38 | 4s50 | 14s 7 | 0s 8 | 13s28 | 4n45 | 18s26 | 1n16 | 8s 5 | 1n32 | 15n38 | 1n39 | 23n48 | 0n20 | 4n17 | 1n22 | 25n39 | 5n24 | 1s10 | 0s55 | 21n22 | 14n50 | 3s11 |
| S 2 | 3 45 | 22 55 | 4 8 | 14 4 | 0 19 | 13 28 | 4 36 | 18 31 | 1 15 | 8 3 | 1 32 | 15 39 | 1 39 | 23 48 | 0 20 | 4 18 | 1 22 | 25 39 | 5 24 | 1 11 | 0 56 | 21 20 | 14 51 | 3 11 |
| S 3 | 3 22 | 17 41 | 3 9 | 13 59 | 0 30 | 13 28 | 4 26 | 18 36 | 1 14 | 8 0 | 1 32 | 15 40 | 1 39 | 23 48 | 0 20 | 4 19 | 1 22 | 25 40 | 5 24 | 1 11 | 0 58 | 21 17 | 14 52 | 3 11 |
| M 4 | 2 58 | 11 22 | 1 57 | 13 52 | 0 41 | 13 27 | 4 17 | 18 41 | 1 13 | 7 58 | 1 32 | 15 41 | 1 39 | 23 48 | 0 20 | 4 19 | 1 22 | 25 40 | 5 24 | 1 11 | 0 59 | 21 15 | 14 53 | 3 11 |
| T 5 | 2 34 | 4 26 | 0 37 | 13 44 | 0 51 | 13 26 | 4 8 | 18 46 | 1 12 | 7 56 | 1 33 | 15 43 | 1 39 | 23 48 | 0 20 | 4 20 | 1 22 | 25 40 | 5 24 | 1 11 | 1 0 | 21 12 | 14 53 | 3 11 |
| W 6 | 2 11 | 2n38 | 0n44 | 13 34 | 1 0 | 13 24 | 3 59 | 18 50 | 1 11 | 7 54 | 1 33 | 15 44 | 1 39 | 23 48 | 0 20 | 4 21 | 1 22 | 25 40 | 5 23 | 1 11 | 1 1 | 21 10 | 14 54 | 3 10 |
| T 7 | 1 47 | 9 26 | 2 1 | 13 22 | 1 9 | 13 21 | 3 50 | 18 55 | 1 11 | 7 52 | 1 33 | 15 45 | 1 39 | 23 48 | 0 20 | 4 21 | 1 22 | 25 40 | 5 23 | 1 11 | 1 3 | 21 8 | 14 55 | 3 10 |
| F 8 | 1 24 | 15 35 | 3 8 | 13 9 | 1 18 | 13 18 | 3 41 | 18 59 | 1 10 | 7 49 | 1 33 | 15 46 | 1 39 | 23 48 | 0 20 | 4 22 | 1 22 | 25 40 | 5 23 | 1 11 | 1 4 | 21 5 | 14 56 | 3 10 |
| S 9 | 1 0 | 20 48 | 4 3 | 12 54 | 1 26 | 13 15 | 3 32 | 19 4 | 1 9 | 7 47 | 1 33 | 15 47 | 1 39 | 23 48 | 0 20 | 4 23 | 1 22 | 25 40 | 5 23 | 1 11 | 1 5 | 21 3 | 14 57 | 3 10 |
| S 10 | 0 36 | 24 49 | 4 43 | 12 38 | 1 34 | 13 11 | 3 23 | 19 8 | 1 8 | 7 45 | 1 33 | 15 48 | 1 39 | 23 48 | 0 20 | 4 23 | 1 22 | 25 40 | 5 23 | 1 11 | 1 6 | 21 0 | 14 58 | 3 10 |
| M11 | 0 13 | 27 29 | 5 8 | 12 20 | 1 41 | 13 7 | 3 14 | 19 12 | 1 7 | 7 42 | 1 33 | 15 49 | 1 39 | 23 48 | 0 20 | 4 24 | 1 22 | 25 40 | 5 23 | 1 11 | 1 8 | 20 58 | 14 59 | 3 10 |
| T 12 | 0n11 | 28 42 | 5 17 | 12 1 | 1 48 | 13 2 | 3 6 | 19 16 | 1 6 | 7 40 | 1 33 | 15 50 | 1 39 | 23 48 | 0 20 | 4 25 | 1 22 | 25 40 | 5 23 | 1 11 | 1 9 | 20 55 | 15 0 | 3 10 |
| W13 | 0 35 | 28 30 | 5 12 | 11 40 | 1 54 | 12 56 | 2 57 | 19 20 | 1 4 | 7 37 | 1 34 | 15 51 | 1 39 | 23 48 | 0 20 | 4 25 | 1 22 | 25 40 | 5 23 | 1 11 | 1 10 | 20 53 | 15 1 | 3 10 |
| T 14 | 0 58 | 26 57 | 4 54 | 11 17 | 1 59 | 12 50 | 2 49 | 19 24 | 1 3 | 7 34 | 1 34 | 15 52 | 1 39 | 23 48 | 0 20 | 4 26 | 1 22 | 25 40 | 5 23 | 1 11 | 1 11 | 20 50 | 15 2 | 3 10 |
| F 15 | 1 22 | 24 13 | 4 23 | 10 54 | 2 5 | 12 44 | 2 40 | 19 28 | 1 2 | 7 32 | 1 34 | 15 53 | 1 39 | 23 48 | 0 20 | 4 26 | 1 22 | 25 40 | 5 23 | 1 11 | 1 13 | 20 48 | 15 3 | 3 10 |
| S 16 | 1 46 | 20 29 | 3 41 | 10 28 | 2 9 | 12 36 | 2 32 | 19 32 | 1 1 | 7 29 | 1 34 | 15 54 | 1 39 | 23 48 | 0 20 | 4 27 | 1 22 | 25 41 | 5 23 | 1 11 | 1 14 | 20 45 | 15 4 | 3 10 |
| S 17 | 2 9 | 15 55 | 2 49 | 10 2 | 2 14 | 12 29 | 2 24 | 19 36 | 1 0 | 7 27 | 1 34 | 15 55 | 1 39 | 23 48 | 0 20 | 4 28 | 1 22 | 25 41 | 5 23 | 1 10 | 1 15 | 20 43 | 15 5 | 3 10 |
| M18 | 2 32 | 10 44 | 1 50 | 9 34 | 2 17 | 12 21 | 2 16 | 19 39 | 0 59 | 7 24 | 1 34 | 15 56 | 1 39 | 23 48 | 0 20 | 4 28 | 1 22 | 25 41 | 5 23 | 1 10 | 1 17 | 20 40 | 15 6 | 3 10 |
| T 19 | 2 56 | 5 5 | 0 45 | 9 5 | 2 20 | 12 12 | 2 8 | 19 43 | 0 57 | 7 21 | 1 34 | 15 57 | 1 39 | 23 48 | 0 20 | 4 29 | 1 22 | 25 41 | 5 23 | 1 10 | 1 18 | 20 38 | 15 6 | 3 10 |
| W20 | 3 19 | 0s49 | 0s23 | 8 34 | 2 23 | 12 3 | 2 0 | 19 46 | 0 56 | 7 19 | 1 34 | 15 58 | 1 39 | 23 48 | 0 20 | 4 30 | 1 22 | 25 41 | 5 23 | 1 10 | 1 19 | 20 35 | 15 7 | 3 9 |
| T 21 | 3 43 | 6 47 | 1 30 | 8 2 | 2 25 | 11 53 | 1 52 | 19 49 | 0 55 | 7 16 | 1 34 | 15 58 | 1 39 | 23 48 | 0 20 | 4 30 | 1 22 | 25 41 | 5 23 | 1 10 | 1 20 | 20 33 | 15 8 | 3 9 |
| F 22 | 4 6 | 12 36 | 2 35 | 7 29 | 2 27 | 11 43 | 1 45 | 19 53 | 0 53 | 7 13 | 1 34 | 15 59 | 1 39 | 23 47 | 0 20 | 4 31 | 1 22 | 25 41 | 5 23 | 1 10 | 1 22 | 20 30 | 15 9 | 3 9 |
| S 23 | 4 29 | 17 59 | 3 33 | 6 54 | 2 28 | 11 32 | 1 37 | 19 56 | 0 52 | 7 10 | 1 34 | 16 0 | 1 38 | 23 47 | 0 20 | 4 31 | 1 22 | 25 41 | 5 22 | 1 11 | 1 23 | 20 28 | 15 11 | 3 9 |
| S 24 | 4 52 | 22 37 | 4 20 | 6 19 | 2 29 | 11 21 | 1 30 | 19 59 | 0 50 | 7 7 | 1 34 | 16 0 | 1 38 | 23 47 | 0 20 | 4 32 | 1 22 | 25 41 | 5 22 | 1 12 | 1 24 | 20 25 | 15 12 | 3 9 |
| M25 | 5 15 | 26 10 | 4 54 | 5 42 | 2 29 | 11 9 | 1 23 | 20 2 | 0 49 | 7 5 | 1 34 | 16 1 | 1 38 | 23 47 | 0 20 | 4 33 | 1 22 | 25 41 | 5 22 | 1 13 | 1 25 | 20 22 | 15 13 | 3 9 |
| T 26 | 5 38 | 28 17 | 5 13 | 5 3 | 2 29 | 10 57 | 1 15 | 20 5 | 0 47 | 7 2 | 1 34 | 16 1 | 1 38 | 23 47 | 0 20 | 4 33 | 1 22 | 25 41 | 5 22 | 1 14 | 1 27 | 20 20 | 15 14 | 3 9 |
| W27 | 6 1 | 28 42 | 5 14 | 4 24 | 2 28 | 10 45 | 1 8 | 20 7 | 0 45 | 6 59 | 1 34 | 16 2 | 1 38 | 23 47 | 0 20 | 4 34 | 1 22 | 25 41 | 5 22 | 1 14 | 1 28 | 20 17 | 15 15 | 3 9 |
| T 28 | 6 23 | 27 18 | 4 56 | 3 43 | 2 27 | 10 32 | 1 1 | 20 10 | 0 44 | 6 56 | 1 34 | 16 2 | 1 38 | 23 47 | 0 20 | 4 34 | 1 22 | 25 40 | 5 22 | 1 14 | 1 29 | 20 15 | 15 16 | 3 9 |
| F 29 | 6 46 | 24 8 | 4 20 | 3 2 | 2 25 | 10 18 | 0 55 | 20 13 | 0 42 | 6 53 | 1 34 | 16 3 | 1 38 | 23 47 | 0 20 | 4 35 | 1 22 | 25 40 | 5 22 | 1 14 | 1 30 | 20 12 | 15 17 | 3 9 |
| S 30 | 7 8 | 19 29 | 3 28 | 2 19 | 2 23 | 10 4 | 0 48 | 20 15 | 0 40 | 6 50 | 1 34 | 16 3 | 1 38 | 23 47 | 0 20 | 4 36 | 1 22 | 25 40 | 5 22 | 1 14 | 1 32 | 20 10 | 15 18 | 3 9 |
| S 31 | 7n31 | 13s41 | 2s23 | 1s35 | 2s20 | 9s49 | 0n41 | 20s18 | 0n38 | 6s48 | 1n34 | 16n 4 | 1n38 | 23n47 | 0n20 | 4n36 | 1n22 | 25n40 | 5n22 | 1s13 | 1s33 | 20n 7 | 15n19 | 3s 9 |

Julian Day Number = 2249999.5, Delta T = 06m33s
Ecliptic obliquity = 23°30'49, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'30, Lahiri = 16°09'30 Julian Calendar 1 March 1448 == Greg. Calendar 10 March 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## APRIL 1448 JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 13 12 58 | 20♈ 6'18 | 14♓36 | 3♈ 9 | 3♓52 | 3♐34 | 20°R57 | 21°R 3 | 3♋58 | 21°R34 | 28°R59 | 26♓58 | 26♓ 4 | 13♌44 | 22♉13 | M 1 |
| T 2 | 13 16 54 | 21° 4'54 | 29° 1 | 4°55 | 4°50 | 3°36 | 20♎49 | 21♌ 2 | 4° 0 | 21♍32 | 28°D59 | 26°R58 | 26° 0 | 13°51 | 22°17 | T 2 |
| W 3 | 13 20 51 | 22° 3'28 | 13♈20 | 6°44 | 5°49 | 3°38 | 20°42 | 21° 1 | 4° 1 | 21°31 | 28♋59 | 26°58 | 25°57 | 13°57 | 22°21 | W 3 |
| T 4 | 13 24 47 | 23° 2'00 | 27°26 | 8°34 | 6°48 | 3°R38 | 20°34 | 21° 0 | 4° 3 | 21°30 | 28°59 | 26°56 | 25°54 | 14° 4 | 22°25 | T 4 |
| F 5 | 13 28 44 | 24° 0'30 | 11♉15 | 10°26 | 7°47 | 3°38 | 20°26 | 20°59 | 4° 5 | 21°28 | 28°59 | 26°52 | 25°51 | 14°11 | 22°29 | F 5 |
| S 6 | 13 32 40 | 24°58'58 | 24°45 | 12°19 | 8°47 | 3°37 | 20°19 | 20°58 | 4° 6 | 21°27 | 28°59 | 26°48 | 25°48 | 14°17 | 22°34 | S 6 |
| S 7 | 13 36 37 | 25°57'24 | 7♊54 | 14°14 | 9°47 | 3°36 | 20°11 | 20°57 | 4° 8 | 21°26 | 28°59 | 26°43 | 25°44 | 14°24 | 22°38 | S 7 |
| M 8 | 13 40 33 | 26°55'48 | 20°41 | 16°11 | 10°48 | 3°33 | 20° 3 | 20°56 | 4°10 | 21°24 | 28°59 | 26°39 | 25°41 | 14°31 | 22°42 | M 8 |
| T 9 | 13 44 30 | 27°54'10 | 3♋ 9 | 18° 9 | 11°48 | 3°30 | 19°56 | 20°56 | 4°12 | 21°23 | 28°59 | 26°36 | 25°38 | 14°37 | 22°47 | T 9 |
| W10 | 13 48 27 | 28°52'30 | 15°21 | 20° 9 | 12°49 | 3°26 | 19°48 | 20°55 | 4°14 | 21°22 | 29° 0 | 26°33 | 25°35 | 14°44 | 22°51 | W10 |
| T 11 | 13 52 23 | 29°50'48 | 27°21 | 22°10 | 13°51 | 3°22 | 19°41 | 20°55 | 4°16 | 21°21 | 29° 0 | 26°D32 | 25°32 | 14°51 | 22°55 | T 11 |
| F 12 | 13 56 20 | 0♉49'04 | 9♌14 | 24°13 | 14°52 | 3°16 | 19°33 | 20°55 | 4°18 | 21°19 | 29° 0 | 26°33 | 25°29 | 14°57 | 23° 0 | F 12 |
| S 13 | 14 0 16 | 1°47'18 | 21° 4 | 26°17 | 15°54 | 3°10 | 19°26 | 20°D55 | 4°20 | 21°18 | 29° 0 | 26°34 | 25°25 | 15° 4 | 23° 4 | S 13 |
| S 14 | 14 4 13 | 2°45'29 | 2♍57 | 28°22 | 16°56 | 3° 3 | 19°19 | 20°55 | 4°22 | 21°17 | 29° 1 | 26°36 | 25°22 | 15°11 | 23° 9 | S 14 |
| M15 | 14 8 9 | 3°43'39 | 14°56 | 0♉29 | 17°59 | 2°55 | 19°11 | 20°55 | 4°24 | 21°16 | 29° 1 | 26°37 | 25°19 | 15°17 | 23°13 | M15 |
| T 16 | 14 12 6 | 4°41'46 | 27° 8 | 2°37 | 19° 1 | 2°47 | 19° 4 | 20°55 | 4°26 | 21°15 | 29° 1 | 26°R38 | 25°16 | 15°24 | 23°18 | T 16 |
| W17 | 14 16 2 | 5°39'52 | 9♎34 | 4°46 | 20° 4 | 2°38 | 18°57 | 20°55 | 4°29 | 21°14 | 29° 2 | 26°37 | 25°13 | 15°31 | 23°22 | W17 |
| T 18 | 14 19 59 | 6°37'56 | 22°16 | 6°55 | 21° 7 | 2°28 | 18°50 | 20°56 | 4°31 | 21°13 | 29° 2 | 26°34 | 25°10 | 15°37 | 23°27 | T 18 |
| F 19 | 14 23 55 | 7°35'58 | 5♏17 | 9° 5 | 22°11 | 2°17 | 18°43 | 20°56 | 4°33 | 21°12 | 29° 2 | 26°30 | 25° 6 | 15°44 | 23°31 | F 19 |
| S 20 | 14 27 52 | 8°33'59 | 18°36 | 11°15 | 23°14 | 2° 6 | 18°36 | 20°57 | 4°35 | 21°11 | 29° 3 | 26°24 | 25° 3 | 15°51 | 23°36 | S 20 |
| S 21 | 14 31 49 | 9°31'58 | 2♐11 | 13°25 | 24°18 | 1°54 | 18°29 | 20°58 | 4°38 | 21°10 | 29° 3 | 26°17 | 25° 0 | 15°58 | 23°40 | S 21 |
| M22 | 14 35 45 | 10°29'55 | 15°59 | 15°35 | 25°22 | 1°41 | 18°23 | 20°59 | 4°40 | 21° 9 | 29° 4 | 26°10 | 24°57 | 16° 4 | 23°45 | M22 |
| T 23 | 14 39 42 | 11°27'52 | 29°57 | 17°45 | 26°27 | 1°28 | 18°16 | 21° 0 | 4°43 | 21° 8 | 29° 4 | 26° 3 | 24°54 | 16°11 | 23°49 | T 23 |
| W24 | 14 43 38 | 12°25'46 | 14♑ 2 | 19°53 | 27°31 | 1°14 | 18°10 | 21° 1 | 4°45 | 21° 7 | 29° 5 | 25°59 | 24°50 | 16°18 | 23°54 | W24 |
| T 25 | 14 47 35 | 13°23'40 | 28°11 | 22° 0 | 28°36 | 0°59 | 18° 3 | 21° 2 | 4°48 | 21° 6 | 29° 6 | 25°56 | 24°47 | 16°24 | 23°59 | T 25 |
| F 26 | 14 51 31 | 14°21'32 | 12♒21 | 24° 6 | 29°41 | 0°44 | 17°57 | 21° 3 | 4°50 | 21° 5 | 29° 6 | 25°D55 | 24°44 | 16°31 | 24° 3 | F 26 |
| S 27 | 14 55 28 | 15°19'23 | 26°31 | 26°11 | 0♈46 | 0°28 | 17°51 | 21° 5 | 4°53 | 21° 4 | 29° 7 | 25°55 | 24°41 | 16°38 | 24° 8 | S 27 |
| S 28 | 14 59 25 | 16°17'13 | 10♓38 | 28°13 | 1°51 | 0°11 | 17°45 | 21° 6 | 4°56 | 21° 3 | 29° 8 | 25°56 | 24°38 | 16°44 | 24°13 | S 28 |
| M29 | 15 3 21 | 17°15'01 | 24°42 | 0♊13 | 2°57 | 29♏54 | 17°39 | 21° 8 | 4°58 | 21° 3 | 29° 8 | 25°R57 | 24°35 | 16°51 | 24°17 | M29 |
| T 30 | 15 7 18 | 18♉12'49 | 8♈42 | 2♊11 | 4♈ 2 | 29♏37 | 17♎33 | 21♌ 9 | 5♋ 1 | 21♍ 2 | 29♋ 9 | 25♓56 | 24♓31 | 16♌58 | 24♉22 | T 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| M 1 | 7n53 | 7s 7 | 1s 8 | 0s50 | 2s16 | 9s35 | 0n35 | 20s20 | 0n37 | 6s45 | 1n34 | 16n 4 | 1n38 | 23n47 | 0n20 | 4n37 | 1n22 | 25n40 | 5n22 | 1s13 | 1s34 | 20n 5 | 15n20 | 3s | 9 |
| T 2 | 8 15 | 0 13 | 0n11 | 0 4 | 2 12 | 9 19 | 0 29 | 20 22 | 0 35 | 6 42 | 1 34 | 16 4 | 1 38 | 23 47 | 0 20 | 4 37 | 1 22 | 25 40 | 5 22 | 1 12 | 1 36 | 20 2 | 15 21 | 3 | 9 |
| W 3 | 8 37 | 6n38 | 1 29 | 0n43 | 2 8 | 9 3 | 0 23 | 20 25 | 0 33 | 6 39 | 1 34 | 16 5 | 1 38 | 23 47 | 0 20 | 4 38 | 1 22 | 25 40 | 5 22 | 1 13 | 1 37 | 19 59 | 15 22 | 3 | 9 |
| T 4 | 8 59 | 13 4 | 2 40 | 1 31 | 2 3 | 8 47 | 0 16 | 20 27 | 0 31 | 6 36 | 1 34 | 16 5 | 1 38 | 23 47 | 0 20 | 4 38 | 1 22 | 25 40 | 5 22 | 1 14 | 1 38 | 19 57 | 15 23 | 3 | 9 |
| F 5 | 9 21 | 18 44 | 3 39 | 2 20 | 1 58 | 8 31 | 0 11 | 20 29 | 0 29 | 6 33 | 1 34 | 16 5 | 1 38 | 23 47 | 0 20 | 4 39 | 1 22 | 25 40 | 5 22 | 1 15 | 1 39 | 19 54 | 15 24 | 3 | 9 |
| S 6 | 9 42 | 23 18 | 4 25 | 3 10 | 1 52 | 8 14 | 0 5 | 20 30 | 0 27 | 6 30 | 1 34 | 16 5 | 1 37 | 23 47 | 0 20 | 4 39 | 1 22 | 25 40 | 5 21 | 1 17 | 1 41 | 19 52 | 15 25 | 3 | 9 |
| S 7 | 10 3 | 26 34 | 4 56 | 4 1 | 1 45 | 7 56 | 0s 1 | 20 32 | 0 24 | 6 28 | 1 34 | 16 6 | 1 37 | 23 47 | 0 20 | 4 40 | 1 22 | 25 40 | 5 21 | 1 18 | 1 42 | 19 49 | 15 26 | 3 | 9 |
| M 8 | 10 25 | 28 21 | 5 11 | 4 52 | 1 38 | 7 39 | 0 7 | 20 34 | 0 22 | 6 25 | 1 34 | 16 6 | 1 37 | 23 47 | 0 20 | 4 40 | 1 22 | 25 40 | 5 21 | 1 20 | 1 43 | 19 46 | 15 27 | 3 | 9 |
| T 9 | 10 46 | 28 39 | 5 11 | 5 44 | 1 31 | 7 21 | 0 12 | 20 36 | 0 20 | 6 22 | 1 34 | 16 6 | 1 37 | 23 47 | 0 20 | 4 41 | 1 22 | 25 40 | 5 21 | 1 22 | 1 44 | 19 44 | 15 28 | 3 | 9 |
| W10 | 11 6 | 27 32 | 4 56 | 6 37 | 1 23 | 7 2 | 0 17 | 20 37 | 0 18 | 6 19 | 1 34 | 16 6 | 1 37 | 23 46 | 0 20 | 4 41 | 1 22 | 25 39 | 5 21 | 1 22 | 1 46 | 19 41 | 15 30 | 3 | 9 |
| T 11 | 11 27 | 25 9 | 4 29 | 7 30 | 1 15 | 6 43 | 0 23 | 20 39 | 0 15 | 6 17 | 1 34 | 16 6 | 1 37 | 23 46 | 0 20 | 4 42 | 1 22 | 25 39 | 5 21 | 1 23 | 1 47 | 19 38 | 15 31 | 3 | 9 |
| F 12 | 11 48 | 21 42 | 3 50 | 8 24 | 1 6 | 6 24 | 0 28 | 20 40 | 0 13 | 6 14 | 1 34 | 16 6 | 1 37 | 23 46 | 0 20 | 4 42 | 1 22 | 25 39 | 5 21 | 1 23 | 1 48 | 19 36 | 15 32 | 3 | 9 |
| S 13 | 12 8 | 17 23 | 3 2 | 9 17 | 0 57 | 6 5 | 0 33 | 20 41 | 0 10 | 6 11 | 1 34 | 16 6 | 1 37 | 23 46 | 0 20 | 4 43 | 1 22 | 25 39 | 5 21 | 1 22 | 1 49 | 19 33 | 15 33 | 3 | 9 |
| S 14 | 12 28 | 12 24 | 2 6 | 10 11 | 0 48 | 5 45 | 0 37 | 20 42 | 0 8 | 6 8 | 1 33 | 16 6 | 1 37 | 23 46 | 0 20 | 4 43 | 1 22 | 25 39 | 5 21 | 1 22 | 1 51 | 19 31 | 15 34 | 3 | 9 |
| M15 | 12 48 | 6 55 | 1 3 | 11 5 | 0 38 | 5 25 | 0 42 | 20 43 | 0 5 | 6 6 | 1 33 | 16 6 | 1 37 | 23 46 | 0 20 | 4 43 | 1 22 | 25 39 | 5 21 | 1 21 | 1 52 | 19 28 | 15 35 | 3 | 9 |
| T 16 | 13 8 | 1 6 | 0s 3 | 11 59 | 0 28 | 5 4 | 0 47 | 20 44 | 0 3 | 6 3 | 1 33 | 16 5 | 1 37 | 23 46 | 0 20 | 4 44 | 1 22 | 25 39 | 5 21 | 1 21 | 1 53 | 19 25 | 15 36 | 3 | 9 |
| W17 | 13 27 | 4s52 | 1 10 | 12 53 | 0 17 | 4 44 | 0 51 | 20 45 | 0s 0 | 6 1 | 1 33 | 16 5 | 1 36 | 23 46 | 0 20 | 4 44 | 1 22 | 25 39 | 5 21 | 1 21 | 1 55 | 19 23 | 15 37 | 3 | 9 |
| T 18 | 13 46 | 10 47 | 2 15 | 13 45 | 0 7 | 4 23 | 0 55 | 20 46 | 0 3 | 5 58 | 1 33 | 16 5 | 1 36 | 23 46 | 0 20 | 4 45 | 1 22 | 25 38 | 5 21 | 1 22 | 1 56 | 19 20 | 15 38 | 3 | 9 |
| F 19 | 14 5 | 16 22 | 3 14 | 14 38 | 0n 4 | 4 1 | 1 0 | 20 47 | 0 6 | 5 56 | 1 33 | 16 5 | 1 36 | 23 46 | 0 20 | 4 45 | 1 22 | 25 38 | 5 21 | 1 24 | 1 57 | 19 17 | 15 39 | 3 | 9 |
| S 20 | 14 24 | 21 19 | 4 4 | 15 29 | 0 14 | 3 40 | 1 4 | 20 47 | 0 8 | 5 53 | 1 33 | 16 4 | 1 36 | 23 46 | 0 20 | 4 45 | 1 22 | 25 38 | 5 20 | 1 26 | 1 58 | 19 15 | 15 40 | 3 | 9 |
| S 21 | 14 43 | 25 16 | 4 42 | 16 19 | 0 25 | 3 18 | 1 8 | 20 47 | 0 11 | 5 51 | 1 33 | 16 4 | 1 36 | 23 46 | 0 20 | 4 46 | 1 22 | 25 38 | 5 20 | 1 29 | 2 0 | 19 12 | 15 42 | 3 | 9 |
| M22 | 15 1 | 27 48 | 5 3 | 17 7 | 0 35 | 2 56 | 1 11 | 20 48 | 0 14 | 5 48 | 1 32 | 16 4 | 1 36 | 23 45 | 0 20 | 4 46 | 1 22 | 25 38 | 5 20 | 1 32 | 2 1 | 19 9 | 15 43 | 3 | 9 |
| T 23 | 15 19 | 28 38 | 5 8 | 17 54 | 0 46 | 2 34 | 1 15 | 20 48 | 0 17 | 5 46 | 1 32 | 16 3 | 1 36 | 23 45 | 0 20 | 4 47 | 1 22 | 25 37 | 5 20 | 1 34 | 2 2 | 19 7 | 15 44 | 3 | 9 |
| W24 | 15 37 | 27 38 | 4 53 | 18 39 | 0 56 | 2 12 | 1 19 | 20 48 | 0 20 | 5 44 | 1 32 | 16 3 | 1 36 | 23 45 | 0 20 | 4 47 | 1 21 | 25 37 | 5 20 | 1 36 | 2 3 | 19 4 | 15 45 | 3 | 9 |
| T 25 | 15 54 | 24 51 | 4 21 | 19 23 | 1 5 | 1 49 | 1 22 | 20 48 | 0 23 | 5 41 | 1 32 | 16 2 | 1 36 | 23 45 | 0 20 | 4 47 | 1 21 | 25 37 | 5 20 | 1 37 | 2 5 | 19 1 | 15 46 | 3 | 9 |
| F 26 | 16 12 | 20 33 | 3 33 | 20 4 | 1 15 | 1 26 | 1 26 | 20 48 | 0 26 | 5 39 | 1 32 | 16 2 | 1 36 | 23 45 | 0 20 | 4 47 | 1 21 | 25 37 | 5 20 | 1 38 | 2 6 | 18 58 | 15 47 | 3 | 10 |
| S 27 | 16 29 | 15 6 | 2 32 | 20 43 | 1 24 | 1 3 | 1 29 | 20 47 | 0 29 | 5 37 | 1 32 | 16 1 | 1 35 | 23 45 | 0 20 | 4 48 | 1 21 | 25 37 | 5 20 | 1 38 | 2 7 | 18 56 | 15 48 | 3 | 10 |
| S 28 | 16 46 | 8 51 | 1 22 | 21 19 | 1 32 | 0 40 | 1 32 | 20 47 | 0 32 | 5 35 | 1 31 | 16 1 | 1 35 | 23 45 | 0 20 | 4 48 | 1 21 | 25 36 | 5 20 | 1 37 | 2 8 | 18 53 | 15 49 | 3 | 10 |
| M29 | 17 2 | 2 13 | 0 7 | 21 53 | 1 40 | 0 17 | 1 35 | 20 46 | 0 35 | 5 33 | 1 31 | 16 0 | 1 35 | 23 45 | 0 20 | 4 48 | 1 21 | 25 36 | 5 20 | 1 37 | 2 10 | 18 50 | 15 50 | 3 | 10 |
| T 30 | 17n18 | 4n30 | 1n 8 | 22n24 | 1n47 | 0n 7 | 1s38 | 20s45 | 0s39 | 5s31 | 1n31 | 16n 0 | 1n35 | 23n45 | 0n20 | 4n49 | 1n21 | 25n36 | 5n20 | 1s37 | 2s11 | 18n48 | 15n51 | 3s | 10 |

Julian Day Number = 2250030.5, Delta T = 06m33s
Ecliptic obliquity = 23°30'49, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'34, Lahiri = 16°09'34 Julian Calendar 1 Apr. 1448 == Greg. Calendar 10 Apr. 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## MAY 1448 JC

**00:00 UT**

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W 1 | 15 11 14 | 19♉10'35 | 22♈34 | 4♊ 6 | 5♈ 8 | 29°R18 | 17°R27 | 21♌11 | 5♋ 4 | 21°R 1 | 29♋10 | 25°R53 | 24♓28 | 17♌ 4 | 24♉27 | W 1 |
| T 2 | 15 15 11 | 20° 8'20 | 6♉16 | 5°59 | 6°14 | 29♏ 0 | 17♎22 | 21°13 | 5° 7 | 21♍ 1 | 29°10 | 25♓48 | 24°25 | 17°11 | 24°31 | T 2 |
| F 3 | 15 19 7 | 21° 6'03 | 19°46 | 7°49 | 7°20 | 28°41 | 17°16 | 21°15 | 5° 9 | 21° 0 | 29°11 | 25°41 | 24°22 | 17°18 | 24°36 | F 3 |
| S 4 | 15 23 4 | 22° 3'46 | 3♊ 1 | 9°36 | 8°26 | 28°22 | 17°11 | 21°17 | 5°12 | 20°59 | 29°12 | 25°31 | 24°19 | 17°24 | 24°41 | S 4 |
| S 5 | 15 27 0 | 23° 1'27 | 15°59 | 11°20 | 9°33 | 28° 2 | 17° 6 | 21°19 | 5°15 | 20°59 | 29°13 | 25°21 | 24°16 | 17°31 | 24°45 | S 5 |
| M 6 | 15 30 57 | 23°59'07 | 28°41 | 13° 1 | 10°39 | 27°42 | 17° 1 | 21°22 | 5°18 | 20°58 | 29°14 | 25°11 | 24°12 | 17°38 | 24°50 | M 6 |
| T 7 | 15 34 54 | 24°56'45 | 11♋ 6 | 14°40 | 11°46 | 27°22 | 16°56 | 21°24 | 5°21 | 20°58 | 29°15 | 25° 3 | 24° 9 | 17°44 | 24°55 | T 7 |
| W 8 | 15 38 50 | 25°54'22 | 23°16 | 16°14 | 12°52 | 27° 1 | 16°52 | 21°26 | 5°24 | 20°57 | 29°15 | 24°56 | 24° 6 | 17°51 | 24°59 | W 8 |
| T 9 | 15 42 47 | 26°51'57 | 5♌15 | 17°46 | 13°59 | 26°41 | 16°47 | 21°29 | 5°27 | 20°57 | 29°16 | 24°51 | 24° 3 | 17°58 | 25° 4 | T 9 |
| F 10 | 15 46 43 | 27°49'31 | 17° 7 | 19°15 | 15° 6 | 26°20 | 16°43 | 21°32 | 5°30 | 20°56 | 29°17 | 24°49 | 24° 0 | 18° 4 | 25° 9 | F 10 |
| S 11 | 15 50 40 | 28°47'03 | 28°57 | 20°40 | 16°14 | 25°59 | 16°39 | 21°34 | 5°33 | 20°56 | 29°18 | 24°D48 | 23°56 | 18°11 | 25°14 | S 11 |
| S 12 | 15 54 36 | 29°44'34 | 10♍49 | 22° 2 | 17°21 | 25°39 | 16°35 | 21°37 | 5°36 | 20°55 | 29°19 | 24°49 | 23°53 | 18°18 | 25°18 | S 12 |
| M13 | 15 58 33 | 0♊42'04 | 22°50 | 23°21 | 18°28 | 25°18 | 16°31 | 21°40 | 5°39 | 20°55 | 29°20 | 24°R49 | 23°50 | 18°24 | 25°23 | M13 |
| T 14 | 16 2 29 | 1°39'32 | 5♎ 4 | 24°37 | 19°36 | 24°57 | 16°27 | 21°43 | 5°42 | 20°55 | 29°21 | 24°49 | 23°47 | 18°31 | 25°28 | T 14 |
| W15 | 16 6 26 | 2°36'59 | 17°36 | 25°49 | 20°43 | 24°37 | 16°23 | 21°46 | 5°45 | 20°54 | 29°22 | 24°46 | 23°44 | 18°38 | 25°32 | W15 |
| T 16 | 16 10 23 | 3°34'25 | 0♏29 | 26°57 | 21°51 | 24°17 | 16°20 | 21°50 | 5°49 | 20°54 | 29°23 | 24°42 | 23°41 | 18°44 | 25°37 | T 16 |
| F 17 | 16 14 19 | 4°31'49 | 13°45 | 28° 2 | 22°59 | 23°56 | 16°17 | 21°53 | 5°52 | 20°54 | 29°24 | 24°35 | 23°37 | 18°51 | 25°42 | F 17 |
| S 18 | 16 18 16 | 5°29'13 | 27°23 | 29° 4 | 24° 7 | 23°37 | 16°14 | 21°56 | 5°55 | 20°54 | 29°26 | 24°25 | 23°34 | 18°58 | 25°46 | S 18 |
| S 19 | 16 22 12 | 6°26'36 | 11♐22 | 0♋ 1 | 25°15 | 23°17 | 16°11 | 22° 0 | 5°58 | 20°54 | 29°27 | 24°15 | 23°31 | 19° 4 | 25°51 | S 19 |
| M20 | 16 26 9 | 7°23'58 | 25°37 | 0°55 | 26°23 | 22°58 | 16° 8 | 22° 4 | 6° 2 | 20°53 | 29°28 | 24° 4 | 23°28 | 19°11 | 25°56 | M20 |
| T 21 | 16 30 5 | 8°21'19 | 10♑ 2 | 1°46 | 27°31 | 22°39 | 16° 6 | 22° 7 | 6° 5 | 20°53 | 29°29 | 23°54 | 23°25 | 19°18 | 26° 0 | T 21 |
| W22 | 16 34 2 | 9°18'40 | 24°31 | 2°32 | 28°39 | 22°20 | 16° 4 | 22°11 | 6° 8 | 20°53 | 29°30 | 23°46 | 23°22 | 19°24 | 26° 5 | W22 |
| T 23 | 16 37 58 | 10°15'59 | 8♒57 | 3°14 | 29°48 | 22° 2 | 16° 1 | 22°15 | 6°12 | 20°D53 | 29°31 | 23°41 | 23°18 | 19°31 | 26°10 | T 23 |
| F 24 | 16 41 55 | 11°13'19 | 23°18 | 3°53 | 0♉56 | 21°45 | 15°59 | 22°19 | 6°15 | 20°53 | 29°33 | 23°38 | 23°15 | 19°38 | 26°14 | F 24 |
| S 25 | 16 45 52 | 12°10'38 | 7♓30 | 4°27 | 2° 5 | 21°28 | 15°58 | 22°23 | 6°18 | 20°53 | 29°34 | 23°D37 | 23°12 | 19°44 | 26°19 | S 25 |
| S 26 | 16 49 48 | 13° 7'56 | 21°31 | 4°56 | 3°14 | 21°11 | 15°56 | 22°27 | 6°22 | 20°53 | 29°35 | 23°R37 | 23° 9 | 19°51 | 26°23 | S 26 |
| M27 | 16 53 45 | 14° 5'14 | 5♈21 | 5°22 | 4°23 | 20°56 | 15°54 | 22°31 | 6°25 | 20°53 | 29°36 | 23°37 | 23° 6 | 19°58 | 26°28 | M27 |
| T 28 | 16 57 41 | 15° 2'31 | 19° 1 | 5°43 | 5°31 | 20°40 | 15°53 | 22°35 | 6°29 | 20°54 | 29°38 | 23°35 | 23° 2 | 20° 4 | 26°32 | T 28 |
| W29 | 17 1 38 | 15°59'49 | 2♉30 | 6° 0 | 6°40 | 20°26 | 15°52 | 22°40 | 6°32 | 20°54 | 29°39 | 23°31 | 22°59 | 20°11 | 26°37 | W29 |
| T 30 | 17 5 34 | 16°57'06 | 15°49 | 6°12 | 7°50 | 20°12 | 15°51 | 22°44 | 6°35 | 20°54 | 29°40 | 23°24 | 22°56 | 20°18 | 26°41 | T 30 |
| F 31 | 17 9 31 | 17♊54'22 | 28♉56 | 6♋19 | 8♉59 | 19♏58 | 15♎50 | 22♌49 | 6♋39 | 20♍54 | 29♋42 | 23♓14 | 22♓53 | 20♌24 | 26♉46 | F 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| W 1 | 17n34 | 10n56 | 2n18 | 22n53 | 1n53 | 0n31 | 1s40 | 20s45 | 0s42 | 5s29 | 1n31 | 15n59 | 1n35 | 23n45 | 0n20 | 4n49 | 1n21 | 25n36 | 5n20 | 1s38 | 2s12 | 18n45 | 15n52 | 3s10 |
| T 2 | 17 50 | 16 46 | 3 19 | 23 19 | 1 59 | 0 54 | 1 43 | 20 44 | 0 45 | 5 27 | 1 31 | 15 58 | 1 35 | 23 44 | 0 20 | 4 49 | 1 21 | 25 36 | 5 20 | 1 40 | 2 13 | 18 42 | 15 53 | 3 10 |
| F 3 | 18 5 | 21 42 | 4 7 | 23 43 | 2 4 | 1 18 | 1 45 | 20 43 | 0 48 | 5 25 | 1 30 | 15 58 | 1 35 | 23 44 | 0 20 | 4 49 | 1 21 | 25 35 | 5 20 | 1 43 | 2 15 | 18 39 | 15 54 | 3 10 |
| S 4 | 18 20 | 25 26 | 4 42 | 24 4 | 2 8 | 1 42 | 1 48 | 20 42 | 0 51 | 5 23 | 1 30 | 15 57 | 1 35 | 23 44 | 0 20 | 4 50 | 1 21 | 25 35 | 5 20 | 1 47 | 2 16 | 18 37 | 15 55 | 3 10 |
| S 5 | 18 35 | 27 45 | 5 1 | 24 23 | 2 12 | 2 6 | 1 50 | 20 40 | 0 55 | 5 21 | 1 30 | 15 56 | 1 35 | 23 44 | 0 20 | 4 50 | 1 21 | 25 35 | 5 19 | 1 51 | 2 17 | 18 34 | 15 56 | 3 10 |
| M 6 | 18 50 | 28 34 | 5 4 | 24 39 | 2 14 | 2 31 | 1 52 | 20 39 | 0 58 | 5 20 | 1 30 | 15 55 | 1 35 | 23 44 | 0 20 | 4 50 | 1 21 | 25 35 | 5 19 | 1 55 | 2 19 | 18 31 | 15 57 | 3 10 |
| T 7 | 19 4 | 27 55 | 4 53 | 24 53 | 2 16 | 2 55 | 1 54 | 20 37 | 1 1 | 5 18 | 1 29 | 15 54 | 1 35 | 23 44 | 0 20 | 4 50 | 1 21 | 25 34 | 5 19 | 1 58 | 2 20 | 18 28 | 15 59 | 3 10 |
| W 8 | 19 18 | 25 55 | 4 29 | 25 5 | 2 17 | 3 19 | 1 56 | 20 36 | 1 4 | 5 16 | 1 29 | 15 53 | 1 34 | 23 44 | 0 20 | 4 50 | 1 21 | 25 34 | 5 19 | 2 1 | 2 21 | 18 26 | 16 0 | 3 10 |
| T 9 | 19 31 | 22 46 | 3 53 | 25 14 | 2 18 | 3 43 | 1 58 | 20 34 | 1 8 | 5 15 | 1 29 | 15 52 | 1 34 | 23 44 | 0 20 | 4 50 | 1 21 | 25 34 | 5 19 | 2 3 | 2 22 | 18 23 | 16 1 | 3 11 |
| F 10 | 19 44 | 18 43 | 3 7 | 25 21 | 2 17 | 4 8 | 1 59 | 20 32 | 1 11 | 5 13 | 1 29 | 15 51 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 34 | 5 19 | 2 4 | 2 24 | 18 20 | 16 2 | 3 11 |
| S 11 | 19 57 | 13 58 | 2 14 | 25 26 | 2 16 | 4 32 | 2 1 | 20 31 | 1 14 | 5 12 | 1 29 | 15 50 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 33 | 5 19 | 2 4 | 2 25 | 18 17 | 16 3 | 3 11 |
| S 12 | 20 9 | 8 40 | 1 14 | 25 30 | 2 13 | 4 57 | 2 2 | 20 29 | 1 17 | 5 11 | 1 28 | 15 49 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 33 | 5 19 | 2 4 | 2 26 | 18 15 | 16 4 | 3 11 |
| M13 | 20 22 | 3 1 | 0 11 | 25 31 | 2 10 | 5 21 | 2 4 | 20 27 | 1 20 | 5 9 | 1 28 | 15 48 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 33 | 5 19 | 2 4 | 2 27 | 18 12 | 16 5 | 3 11 |
| T 14 | 20 33 | 2s51 | 0s54 | 25 31 | 2 6 | 5 46 | 2 5 | 20 25 | 1 24 | 5 8 | 1 28 | 15 47 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 33 | 5 19 | 2 4 | 2 29 | 18 9 | 16 6 | 3 11 |
| W15 | 20 45 | 8 45 | 1 58 | 25 29 | 2 2 | 6 10 | 2 6 | 20 23 | 1 27 | 5 7 | 1 28 | 15 46 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 32 | 5 19 | 2 5 | 2 30 | 18 6 | 16 7 | 3 11 |
| T 16 | 20 56 | 14 27 | 2 58 | 25 25 | 1 56 | 6 34 | 2 7 | 20 21 | 1 30 | 5 6 | 1 27 | 15 45 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 32 | 5 19 | 2 7 | 2 31 | 18 3 | 16 8 | 3 11 |
| F 17 | 21 7 | 19 39 | 3 49 | 25 20 | 1 50 | 6 59 | 2 8 | 20 19 | 1 33 | 5 5 | 1 27 | 15 44 | 1 34 | 23 43 | 0 20 | 4 51 | 1 21 | 25 32 | 5 19 | 2 10 | 2 32 | 18 1 | 16 9 | 3 11 |
| S 18 | 21 17 | 24 0 | 4 29 | 25 13 | 1 43 | 7 23 | 2 9 | 20 17 | 1 36 | 5 4 | 1 27 | 15 43 | 1 34 | 23 42 | 0 20 | 4 51 | 1 21 | 25 31 | 5 19 | 2 13 | 2 34 | 17 58 | 16 10 | 3 12 |
| S 19 | 21 27 | 27 4 | 4 54 | 25 6 | 1 35 | 7 47 | 2 9 | 20 15 | 1 39 | 5 3 | 1 27 | 15 41 | 1 33 | 23 42 | 0 20 | 4 51 | 1 21 | 25 31 | 5 19 | 2 17 | 2 35 | 17 55 | 16 10 | 3 12 |
| M20 | 21 37 | 28 28 | 5 1 | 24 57 | 1 26 | 8 11 | 2 10 | 20 13 | 1 42 | 5 2 | 1 26 | 15 40 | 1 33 | 23 42 | 0 20 | 4 51 | 1 21 | 25 31 | 5 19 | 2 22 | 2 36 | 17 52 | 16 11 | 3 12 |
| T 21 | 21 46 | 27 57 | 4 50 | 24 47 | 1 17 | 8 36 | 2 10 | 20 10 | 1 45 | 5 2 | 1 26 | 15 39 | 1 33 | 23 42 | 0 20 | 4 51 | 1 21 | 25 31 | 5 19 | 2 26 | 2 37 | 17 49 | 16 12 | 3 12 |
| W22 | 21 55 | 25 33 | 4 20 | 24 36 | 1 6 | 9 0 | 2 11 | 20 8 | 1 47 | 5 1 | 1 26 | 15 38 | 1 33 | 23 42 | 0 20 | 4 51 | 1 21 | 25 30 | 5 19 | 2 29 | 2 39 | 17 47 | 16 13 | 3 12 |
| T 23 | 22 3 | 21 30 | 3 33 | 24 24 | 0 55 | 9 23 | 2 11 | 20 6 | 1 50 | 5 0 | 1 26 | 15 36 | 1 33 | 23 42 | 0 20 | 4 51 | 1 21 | 25 30 | 5 19 | 2 31 | 2 40 | 17 44 | 16 14 | 3 12 |
| F 24 | 22 12 | 16 12 | 2 33 | 24 11 | 0 44 | 9 47 | 2 11 | 20 4 | 1 53 | 5 0 | 1 25 | 15 35 | 1 33 | 23 41 | 0 20 | 4 51 | 1 20 | 25 30 | 5 19 | 2 32 | 2 41 | 17 41 | 16 15 | 3 12 |
| S 25 | 22 19 | 10 5 | 1 24 | 23 58 | 0 31 | 10 11 | 2 11 | 20 2 | 1 55 | 4 59 | 1 25 | 15 34 | 1 33 | 23 41 | 0 20 | 4 51 | 1 20 | 25 29 | 5 18 | 2 33 | 2 42 | 17 38 | 16 16 | 3 12 |
| S 26 | 22 27 | 3 33 | 0 11 | 23 43 | 0 18 | 10 34 | 2 11 | 20 1 | 1 58 | 4 59 | 1 25 | 15 32 | 1 33 | 23 41 | 0 20 | 4 51 | 1 20 | 25 29 | 5 18 | 2 33 | 2 44 | 17 35 | 16 17 | 3 13 |
| M27 | 22 34 | 3n 5 | 1n 2 | 23 29 | 0 4 | 10 58 | 2 11 | 19 59 | 2 1 | 4 59 | 1 24 | 15 31 | 1 33 | 23 41 | 0 20 | 4 51 | 1 20 | 25 29 | 5 18 | 2 33 | 2 45 | 17 33 | 16 18 | 3 13 |
| T 28 | 22 40 | 9 28 | 2 10 | 23 13 | 0s10 | 11 21 | 2 11 | 19 57 | 2 3 | 4 59 | 1 24 | 15 29 | 1 33 | 23 41 | 0 20 | 4 51 | 1 20 | 25 28 | 5 18 | 2 33 | 2 46 | 17 30 | 16 19 | 3 13 |
| W29 | 22 46 | 15 21 | 3 10 | 22 58 | 0 25 | 11 44 | 2 11 | 19 55 | 2 5 | 4 58 | 1 24 | 15 28 | 1 33 | 23 41 | 0 20 | 4 51 | 1 20 | 25 28 | 5 18 | 2 35 | 2 48 | 17 27 | 16 20 | 3 13 |
| T 30 | 22 52 | 20 26 | 3 59 | 22 42 | 0 40 | 12 7 | 2 10 | 19 54 | 2 8 | 4 58 | 1 24 | 15 26 | 1 33 | 23 40 | 0 20 | 4 51 | 1 20 | 25 28 | 5 18 | 2 38 | 2 49 | 17 24 | 16 21 | 3 13 |
| F 31 | 22n58 | 24n26 | 4n34 | 22n26 | 0s56 | 12n29 | 2s10 | 19s52 | 2s10 | 4s58 | 1n23 | 15n25 | 1n32 | 23n40 | 0n20 | 4n51 | 1n20 | 25n28 | 5n18 | 2s42 | 2s50 | 17n21 | 16n21 | 3s13 |

Julian Day Number = 2250060.5, Delta T = 06m32s
Ecliptic obliquity = 23°30'49, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'38, Lahiri = 16°09'39 Julian Calendar 1 May 1448 == Greg. Calendar 10 May 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## JUNE 1448 JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 17 13 27 | 18♊51'38 | 11♊51 | 6°R22 | 10♉ 8 | 19°R46 | 15°R50 | 22♌53 | 6♋42 | 20♍54 | 29♋43 | 23°R 2 | 22♓50 | 20♌31 | 26♉50 | S 1 |
| S 2 | 17 17 24 | 19°48'54 | 24°34 | 6♋21 | 11°17 | 19♏34 | 15♎50 | 22°58 | 6°46 | 20°55 | 29°45 | 22♓49 | 22°47 | 20°38 | 26°55 | S 2 |
| M 3 | 17 21 21 | 20°46'09 | 7♋ 3 | 6°14 | 12°27 | 19°23 | 15°49 | 23° 3 | 6°49 | 20°55 | 29°46 | 22°36 | 22°43 | 20°44 | 26°59 | M 3 |
| T 4 | 17 25 17 | 21°43'24 | 19°19 | 6° 4 | 13°36 | 19°13 | 15°D49 | 23° 8 | 6°53 | 20°55 | 29°47 | 22°24 | 22°40 | 20°51 | 27° 4 | T 4 |
| W 5 | 17 29 14 | 22°40'38 | 1♌24 | 5°50 | 14°46 | 19° 4 | 15°50 | 23°12 | 6°56 | 20°56 | 29°49 | 22°14 | 22°37 | 20°58 | 27° 8 | W 5 |
| T 6 | 17 33 10 | 23°37'52 | 13°20 | 5°31 | 15°55 | 18°55 | 15°50 | 23°17 | 7° 0 | 20°56 | 29°50 | 22° 7 | 22°34 | 21° 4 | 27°13 | T 6 |
| F 7 | 17 37 7 | 24°35'05 | 25° 9 | 5° 9 | 17° 5 | 18°47 | 15°50 | 23°22 | 7° 4 | 20°57 | 29°52 | 22° 3 | 22°31 | 21°11 | 27°17 | F 7 |
| S 8 | 17 41 3 | 25°32'17 | 6♍57 | 4°43 | 18°15 | 18°40 | 15°51 | 23°28 | 7° 7 | 20°57 | 29°53 | 22° 1 | 22°28 | 21°18 | 27°21 | S 8 |
| S 9 | 17 45 0 | 26°29'29 | 18°49 | 4°14 | 19°24 | 18°34 | 15°52 | 23°33 | 7°11 | 20°58 | 29°55 | 22° 0 | 22°24 | 21°24 | 27°25 | S 9 |
| M10 | 17 48 56 | 27°26'40 | 0♎48 | 3°43 | 20°34 | 18°29 | 15°53 | 23°38 | 7°14 | 20°58 | 29°56 | 22° 0 | 22°21 | 21°31 | 27°30 | M10 |
| T 11 | 17 52 53 | 28°23'51 | 13° 2 | 3° 9 | 21°44 | 18°25 | 15°54 | 23°43 | 7°18 | 20°59 | 29°58 | 22° 0 | 22°18 | 21°38 | 27°34 | T 11 |
| W12 | 17 56 50 | 29°21'02 | 25°34 | 2°35 | 22°54 | 18°21 | 15°56 | 23°49 | 7°22 | 20°59 | 29°59 | 21°57 | 22°15 | 21°44 | 27°38 | W12 |
| T 13 | 18 0 46 | 0♋18'12 | 8♏31 | 1°59 | 24° 4 | 18°18 | 15°57 | 23°54 | 7°25 | 21° 0 | 0♌ 1 | 21°53 | 22°12 | 21°51 | 27°42 | T 13 |
| F 14 | 18 4 43 | 1°15'22 | 21°53 | 1°22 | 25°14 | 18°16 | 15°59 | 24° 0 | 7°29 | 21° 1 | 0° 2 | 21°46 | 22° 8 | 21°58 | 27°47 | F 14 |
| S 15 | 18 8 39 | 2°12'31 | 5♐43 | 0°46 | 26°24 | 18°15 | 16° 1 | 24° 5 | 7°32 | 21° 1 | 0° 4 | 21°37 | 22° 5 | 22° 4 | 27°51 | S 15 |
| S 16 | 18 12 36 | 3° 9'41 | 19°57 | 0°11 | 27°35 | 18°D15 | 16° 3 | 24°11 | 7°36 | 21° 2 | 0° 5 | 21°27 | 22° 2 | 22°11 | 27°55 | S 16 |
| M17 | 18 16 32 | 4° 6'50 | 4♑32 | 29♊38 | 28°45 | 18°16 | 16° 6 | 24°17 | 7°40 | 21° 3 | 0° 7 | 21°16 | 21°59 | 22°18 | 27°59 | M17 |
| T 18 | 18 20 29 | 5° 4'00 | 19°21 | 29° 6 | 29°55 | 18°17 | 16° 8 | 24°22 | 7°43 | 21° 4 | 0° 9 | 21° 6 | 21°56 | 22°24 | 28° 3 | T 18 |
| W19 | 18 24 26 | 6° 1'09 | 4♒13 | 28°37 | 1♊ 6 | 18°19 | 16°11 | 24°28 | 7°47 | 21° 5 | 0°10 | 20°58 | 21°53 | 22°31 | 28° 7 | W19 |
| T 20 | 18 28 22 | 6°58'19 | 19° 3 | 28°12 | 2°16 | 18°23 | 16°14 | 24°34 | 7°51 | 21° 5 | 0°12 | 20°52 | 21°49 | 22°38 | 28°11 | T 20 |
| F 21 | 18 32 19 | 7°55'29 | 3♓41 | 27°49 | 3°27 | 18°26 | 16°16 | 24°40 | 7°54 | 21° 6 | 0°13 | 20°49 | 21°46 | 22°44 | 28°15 | F 21 |
| S 22 | 18 36 15 | 8°52'39 | 18° 4 | 27°31 | 4°38 | 18°31 | 16°20 | 24°46 | 7°58 | 21° 7 | 0°15 | 20°D48 | 21°43 | 22°51 | 28°19 | S 22 |
| S 23 | 18 40 12 | 9°49'50 | 2♈10 | 27°18 | 5°48 | 18°36 | 16°23 | 24°52 | 8° 1 | 21° 8 | 0°17 | 20°48 | 21°40 | 22°58 | 28°23 | S 23 |
| M24 | 18 44 8 | 10°47'01 | 15°58 | 27° 9 | 6°59 | 18°43 | 16°26 | 24°58 | 8° 5 | 21° 9 | 0°18 | 20°R48 | 21°37 | 23° 4 | 28°26 | M24 |
| T 25 | 18 48 5 | 11°44'13 | 29°29 | 27°D 5 | 8°10 | 18°50 | 16°30 | 25° 4 | 8° 9 | 21°10 | 0°20 | 20°47 | 21°34 | 23°11 | 28°30 | T 25 |
| W26 | 18 52 1 | 12°41'26 | 12♉44 | 27° 6 | 9°21 | 18°57 | 16°34 | 25°11 | 8°12 | 21°11 | 0°22 | 20°44 | 21°30 | 23°18 | 28°34 | W26 |
| T 27 | 18 55 58 | 13°38'39 | 25°45 | 27°12 | 10°32 | 19° 6 | 16°38 | 25°17 | 8°16 | 21°12 | 0°23 | 20°38 | 21°27 | 23°24 | 28°38 | T 27 |
| F 28 | 18 59 55 | 14°35'53 | 8♊33 | 27°24 | 11°43 | 19°15 | 16°42 | 25°23 | 8°20 | 21°13 | 0°25 | 20°29 | 21°24 | 23°31 | 28°41 | F 28 |
| S 29 | 19 3 51 | 15°33'07 | 21°10 | 27°41 | 12°54 | 19°25 | 16°46 | 25°30 | 8°23 | 21°15 | 0°27 | 20°19 | 21°21 | 23°38 | 28°45 | S 29 |
| S 30 | 19 7 48 | 16♋30'22 | 3♋35 | 28♊ 4 | 14♊ 5 | 19♏36 | 16♎51 | 25♌36 | 8♋27 | 21♍16 | 0♌28 | 20♓ 8 | 21♓18 | 23♌44 | 28♉49 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 23n 3 | 27n 8 | 4n54 | 22n10 | 1s12 | 12n52 | 2s 9 | 19s51 | 2s12 | 4s58 | 1n23 | 15n23 | 1n32 | 23n40 | 0n20 | 4n51 | 1n20 | 25n27 | 5n18 | 2s47 | 2s51 | 17n18 | 16n22 | 3s14 |
| S 2 | 23 7 | 28 24 | 5 0 | 21 53 | 1 28 | 13 14 | 2 8 | 19 50 | 2 14 | 4 58 | 1 23 | 15 21 | 1 32 | 23 40 | 0 20 | 4 50 | 1 20 | 25 27 | 5 18 | 2 52 | 2 53 | 17 15 | 16 23 | 3 14 |
| M 3 | 23 11 | 28 10 | 4 51 | 21 37 | 1 45 | 13 36 | 2 8 | 19 49 | 2 16 | 4 59 | 1 23 | 15 20 | 1 32 | 23 40 | 0 20 | 4 50 | 1 20 | 25 27 | 5 18 | 2 57 | 2 54 | 17 13 | 16 24 | 3 14 |
| T 4 | 23 15 | 26 32 | 4 28 | 21 21 | 2 1 | 13 57 | 2 7 | 19 48 | 2 18 | 4 59 | 1 22 | 15 18 | 1 32 | 23 40 | 0 20 | 4 50 | 1 20 | 25 26 | 5 18 | 3 1 | 2 55 | 17 10 | 16 25 | 3 14 |
| W 5 | 23 19 | 23 42 | 3 54 | 21 5 | 2 18 | 14 19 | 2 6 | 19 47 | 2 20 | 4 59 | 1 22 | 15 16 | 1 32 | 23 39 | 0 20 | 4 50 | 1 20 | 25 26 | 5 18 | 3 5 | 2 56 | 17 7 | 16 26 | 3 14 |
| T 6 | 23 22 | 19 54 | 3 9 | 20 50 | 2 34 | 14 40 | 2 5 | 19 47 | 2 22 | 5 0 | 1 22 | 15 15 | 1 32 | 23 39 | 0 20 | 4 50 | 1 20 | 25 26 | 5 18 | 3 8 | 2 58 | 17 4 | 16 26 | 3 15 |
| F 7 | 23 24 | 15 20 | 2 17 | 20 35 | 2 50 | 15 1 | 2 4 | 19 46 | 2 24 | 5 0 | 1 21 | 15 13 | 1 32 | 23 39 | 0 20 | 4 49 | 1 20 | 25 25 | 5 18 | 3 10 | 2 59 | 17 1 | 16 27 | 3 15 |
| S 8 | 23 26 | 10 12 | 1 19 | 20 20 | 3 5 | 15 21 | 2 3 | 19 46 | 2 26 | 5 1 | 1 21 | 15 11 | 1 32 | 23 39 | 0 20 | 4 49 | 1 20 | 25 25 | 5 18 | 3 11 | 3 0 | 16 58 | 16 28 | 3 15 |
| S 9 | 23 28 | 4 42 | 0 17 | 20 7 | 3 20 | 15 41 | 2 1 | 19 46 | 2 28 | 5 1 | 1 21 | 15 9 | 1 32 | 23 39 | 0 20 | 4 49 | 1 20 | 25 25 | 5 18 | 3 11 | 3 1 | 16 55 | 16 29 | 3 15 |
| M10 | 23 29 | 1s 2 | 0s46 | 19 54 | 3 34 | 16 1 | 2 0 | 19 46 | 2 29 | 5 2 | 1 21 | 15 8 | 1 32 | 23 38 | 0 20 | 4 49 | 1 20 | 25 24 | 5 18 | 3 11 | 3 3 | 16 52 | 16 29 | 3 15 |
| T 11 | 23 30 | 6 50 | 1 49 | 19 41 | 3 47 | 16 21 | 1 59 | 19 46 | 2 31 | 5 3 | 1 20 | 15 6 | 1 32 | 23 38 | 0 20 | 4 48 | 1 20 | 25 24 | 5 18 | 3 11 | 3 4 | 16 50 | 16 30 | 3 15 |
| W12 | 23 31 | 12 31 | 2 48 | 19 30 | 3 59 | 16 40 | 1 57 | 19 47 | 2 32 | 5 3 | 1 20 | 15 4 | 1 32 | 23 38 | 0 20 | 4 48 | 1 20 | 25 24 | 5 18 | 3 12 | 3 5 | 16 47 | 16 31 | 3 16 |
| T 13 | 23 31 | 17 51 | 3 40 | 19 20 | 4 10 | 16 59 | 1 56 | 19 48 | 2 34 | 5 4 | 1 20 | 15 2 | 1 32 | 23 38 | 0 20 | 4 48 | 1 20 | 25 23 | 5 18 | 3 14 | 3 6 | 16 44 | 16 32 | 3 16 |
| F 14 | 23 30 | 22 30 | 4 22 | 19 11 | 4 19 | 17 17 | 1 54 | 19 48 | 2 35 | 5 5 | 1 19 | 15 0 | 1 32 | 23 38 | 0 20 | 4 48 | 1 20 | 25 23 | 5 18 | 3 16 | 3 8 | 16 41 | 16 32 | 3 16 |
| S 15 | 23 30 | 26 5 | 4 50 | 19 3 | 4 27 | 17 35 | 1 52 | 19 49 | 2 37 | 5 6 | 1 19 | 14 58 | 1 32 | 23 37 | 0 20 | 4 47 | 1 20 | 25 23 | 5 18 | 3 20 | 3 9 | 16 38 | 16 33 | 3 16 |
| S 16 | 23 29 | 28 8 | 5 1 | 18 57 | 4 34 | 17 53 | 1 50 | 19 51 | 2 38 | 5 7 | 1 19 | 14 56 | 1 31 | 23 37 | 0 20 | 4 47 | 1 20 | 25 22 | 5 18 | 3 24 | 3 10 | 16 35 | 16 34 | 3 17 |
| M17 | 23 27 | 28 19 | 4 53 | 18 52 | 4 39 | 18 11 | 1 49 | 19 52 | 2 39 | 5 8 | 1 19 | 14 54 | 1 31 | 23 37 | 0 20 | 4 47 | 1 20 | 25 22 | 5 18 | 3 28 | 3 11 | 16 32 | 16 34 | 3 17 |
| T 18 | 23 25 | 26 30 | 4 26 | 18 49 | 4 42 | 18 27 | 1 47 | 19 53 | 2 40 | 5 10 | 1 18 | 14 52 | 1 31 | 23 37 | 0 20 | 4 46 | 1 20 | 25 22 | 5 18 | 3 32 | 3 13 | 16 29 | 16 35 | 3 17 |
| W19 | 23 23 | 22 49 | 3 40 | 18 47 | 4 44 | 18 44 | 1 45 | 19 55 | 2 41 | 5 11 | 1 18 | 14 50 | 1 31 | 23 37 | 0 20 | 4 46 | 1 20 | 25 21 | 5 18 | 3 36 | 3 14 | 16 26 | 16 36 | 3 17 |
| T 20 | 23 20 | 17 41 | 2 40 | 18 46 | 4 44 | 19 0 | 1 43 | 19 57 | 2 42 | 5 12 | 1 18 | 14 48 | 1 31 | 23 36 | 0 20 | 4 46 | 1 20 | 25 21 | 5 18 | 3 38 | 3 15 | 16 23 | 16 36 | 3 17 |
| F 21 | 23 17 | 11 35 | 1 30 | 18 47 | 4 43 | 19 16 | 1 41 | 19 59 | 2 43 | 5 14 | 1 18 | 14 46 | 1 31 | 23 36 | 0 20 | 4 45 | 1 19 | 25 20 | 5 18 | 3 39 | 3 16 | 16 20 | 16 37 | 3 18 |
| S 22 | 23 13 | 4 57 | 0 15 | 18 49 | 4 40 | 19 31 | 1 39 | 20 1 | 2 44 | 5 15 | 1 17 | 14 44 | 1 31 | 23 36 | 0 20 | 4 45 | 1 19 | 25 20 | 5 18 | 3 39 | 3 18 | 16 17 | 16 38 | 3 18 |
| S 23 | 23 9 | 1n47 | 1n 0 | 18 53 | 4 36 | 19 45 | 1 37 | 20 4 | 2 45 | 5 17 | 1 17 | 14 42 | 1 31 | 23 36 | 0 20 | 4 44 | 1 19 | 25 20 | 5 18 | 3 39 | 3 19 | 16 15 | 16 38 | 3 18 |
| M24 | 23 4 | 8 17 | 2 10 | 18 58 | 4 31 | 20 0 | 1 34 | 20 6 | 2 46 | 5 18 | 1 17 | 14 40 | 1 31 | 23 36 | 0 20 | 4 44 | 1 19 | 25 19 | 5 18 | 3 39 | 3 20 | 16 12 | 16 39 | 3 18 |
| T 25 | 23 0 | 14 17 | 3 10 | 19 5 | 4 24 | 20 13 | 1 32 | 20 9 | 2 47 | 5 20 | 1 16 | 14 38 | 1 31 | 23 35 | 0 20 | 4 44 | 1 19 | 25 19 | 5 18 | 3 40 | 3 21 | 16 9 | 16 39 | 3 19 |
| W26 | 22 54 | 19 30 | 3 59 | 19 13 | 4 16 | 20 27 | 1 30 | 20 12 | 2 48 | 5 22 | 1 16 | 14 36 | 1 31 | 23 35 | 0 20 | 4 43 | 1 19 | 25 19 | 5 18 | 3 41 | 3 23 | 16 6 | 16 40 | 3 19 |
| T 27 | 22 49 | 23 42 | 4 35 | 19 22 | 4 7 | 20 39 | 1 27 | 20 15 | 2 49 | 5 23 | 1 16 | 14 34 | 1 31 | 23 35 | 0 20 | 4 43 | 1 19 | 25 18 | 5 18 | 3 43 | 3 24 | 16 3 | 16 41 | 3 19 |
| F 28 | 22 43 | 26 41 | 4 56 | 19 32 | 3 57 | 20 51 | 1 25 | 20 18 | 2 49 | 5 25 | 1 16 | 14 32 | 1 31 | 23 35 | 0 20 | 4 42 | 1 19 | 25 18 | 5 18 | 3 47 | 3 25 | 16 0 | 16 41 | 3 19 |
| S 29 | 22 36 | 28 15 | 5 3 | 19 43 | 3 46 | 21 3 | 1 23 | 20 22 | 2 50 | 5 27 | 1 15 | 14 29 | 1 31 | 23 35 | 0 20 | 4 42 | 1 19 | 25 18 | 5 18 | 3 51 | 3 26 | 15 57 | 16 42 | 3 20 |
| S 30 | 22n29 | 28n22 | 4n55 | 19n55 | 3s35 | 21n14 | 1s20 | 20s25 | 2s50 | 5s29 | 1n15 | 14n27 | 1n31 | 23n34 | 0n20 | 4n41 | 1n19 | 25n17 | 5n18 | 3s55 | 3s28 | 15n54 | 16n42 | 3s20 |

Julian Day Number = 2250091.5, Delta T = 06m32s
Ecliptic obliquity = 23°30'48, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'42, Lahiri = 16°09'43 Julian Calendar 1 June 1448 == Greg. Calendar 10 June 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## JULY 1448 JC — 00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M 1 | 19 11 44 | 17♋27'37 | 15♋50 | 28♊32 | 15♊16 | 19♏47 | 16♎55 | 25♌42 | 8♋30 | 21♍17 | 0♌30 | 19°R56 | 21♓14 | 23♌51 | 28♉52 | M 1 |
| T 2 | 19 15 41 | 18°24'53 | 27°56 | 29° 6 | 16°27 | 19°59 | 17° 0 | 25°49 | 8°34 | 21°18 | 0°32 | 19♓46 | 21°11 | 23°58 | 28°56 | T 2 |
| W 3 | 19 19 37 | 19°22'09 | 9♌54 | 29°45 | 17°39 | 20°12 | 17° 5 | 25°56 | 8°38 | 21°19 | 0°34 | 19°38 | 21° 8 | 24° 4 | 28°59 | W 3 |
| T 4 | 19 23 34 | 20°19'26 | 21°45 | 0♋30 | 18°50 | 20°26 | 17°10 | 26° 2 | 8°41 | 21°21 | 0°35 | 19°32 | 21° 5 | 24°11 | 29° 2 | T 4 |
| F 5 | 19 27 30 | 21°16'43 | 3♍32 | 1°20 | 20° 2 | 20°40 | 17°15 | 26° 9 | 8°45 | 21°22 | 0°37 | 19°28 | 21° 2 | 24°18 | 29° 6 | F 5 |
| S 6 | 19 31 27 | 22°14'00 | 15°19 | 2°16 | 21°13 | 20°55 | 17°21 | 26°16 | 8°48 | 21°23 | 0°39 | 19°D26 | 20°59 | 24°24 | 29° 9 | S 6 |
| S 7 | 19 35 24 | 23°11'18 | 27° 9 | 3°16 | 22°25 | 21°10 | 17°26 | 26°22 | 8°52 | 21°24 | 0°40 | 19°27 | 20°55 | 24°31 | 29°12 | S 7 |
| M 8 | 19 39 20 | 24° 8'36 | 9♎ 8 | 4°22 | 23°36 | 21°26 | 17°32 | 26°29 | 8°55 | 21°26 | 0°42 | 19°28 | 20°52 | 24°38 | 29°16 | M 8 |
| T 9 | 19 43 17 | 25° 5'55 | 21°20 | 5°33 | 24°48 | 21°43 | 17°38 | 26°36 | 8°59 | 21°27 | 0°44 | 19°R28 | 20°49 | 24°44 | 29°19 | T 9 |
| W10 | 19 47 13 | 26° 3'14 | 3♏51 | 6°49 | 25°59 | 22° 0 | 17°44 | 26°43 | 9° 2 | 21°29 | 0°46 | 19°28 | 20°46 | 24°51 | 29°22 | W10 |
| T 11 | 19 51 10 | 27° 0'34 | 16°45 | 8°10 | 27°11 | 22°18 | 17°50 | 26°50 | 9° 6 | 21°30 | 0°47 | 19°26 | 20°43 | 24°58 | 29°25 | T 11 |
| F 12 | 19 55 6 | 27°57'54 | 0♐ 6 | 9°36 | 28°23 | 22°37 | 17°56 | 26°57 | 9° 9 | 21°32 | 0°49 | 19°22 | 20°40 | 25° 4 | 29°28 | F 12 |
| S 13 | 19 59 3 | 28°55'15 | 13°56 | 11° 6 | 29°35 | 22°56 | 18° 3 | 27° 4 | 9°13 | 21°33 | 0°51 | 19°17 | 20°36 | 25°11 | 29°31 | S 13 |
| S 14 | 20 2 59 | 29°52'36 | 28°14 | 12°40 | 0♋47 | 23°15 | 18° 9 | 27°11 | 9°16 | 21°35 | 0°53 | 19°10 | 20°33 | 25°18 | 29°34 | S 14 |
| M15 | 20 6 56 | 0♌49'59 | 12♑56 | 14°19 | 1°59 | 23°36 | 18°16 | 27°18 | 9°20 | 21°36 | 0°54 | 19° 2 | 20°30 | 25°24 | 29°37 | M15 |
| T 16 | 20 10 53 | 1°47'22 | 27°56 | 16° 1 | 3°11 | 23°56 | 18°23 | 27°25 | 9°23 | 21°38 | 0°56 | 18°55 | 20°27 | 25°31 | 29°40 | T 16 |
| W17 | 20 14 49 | 2°44'46 | 13♒ 5 | 17°47 | 4°23 | 24°18 | 18°29 | 27°32 | 9°27 | 21°39 | 0°58 | 18°50 | 20°24 | 25°38 | 29°43 | W17 |
| T 18 | 20 18 46 | 3°42'11 | 28°13 | 19°37 | 5°35 | 24°39 | 18°37 | 27°39 | 9°30 | 21°41 | 1° 0 | 18°46 | 20°20 | 25°44 | 29°45 | T 18 |
| F 19 | 20 22 42 | 4°39'36 | 13♓10 | 21°29 | 6°47 | 25° 2 | 18°44 | 27°46 | 9°33 | 21°43 | 1° 1 | 18°D45 | 20°17 | 25°51 | 29°48 | F 19 |
| S 20 | 20 26 39 | 5°37'04 | 27°50 | 23°24 | 7°59 | 25°24 | 18°51 | 27°53 | 9°37 | 21°44 | 1° 3 | 18°45 | 20°14 | 25°58 | 29°51 | S 20 |
| S 21 | 20 30 35 | 6°34'32 | 12♈ 8 | 25°21 | 9°11 | 25°48 | 18°59 | 28° 1 | 9°40 | 21°46 | 1° 5 | 18°46 | 20°11 | 26° 4 | 29°53 | S 21 |
| M22 | 20 34 32 | 7°32'02 | 26° 3 | 27°20 | 10°24 | 26°11 | 19° 6 | 28° 8 | 9°44 | 21°48 | 1° 7 | 18°47 | 20° 8 | 26°11 | 29°56 | M22 |
| T 23 | 20 38 28 | 8°29'33 | 9♉35 | 29°20 | 11°36 | 26°36 | 19°14 | 28°15 | 9°47 | 21°49 | 1° 8 | 18°R48 | 20° 5 | 26°18 | 29°58 | T 23 |
| W24 | 20 42 25 | 9°27'06 | 22°46 | 1♌22 | 12°49 | 27° 0 | 19°22 | 28°22 | 9°50 | 21°51 | 1°10 | 18°47 | 20° 1 | 26°24 | 0♊ 0 | W24 |
| T 25 | 20 46 22 | 10°24'40 | 5♊38 | 3°24 | 14° 1 | 27°25 | 19°30 | 28°30 | 9°53 | 21°53 | 1°12 | 18°45 | 19°58 | 26°31 | 0° 3 | T 25 |
| F 26 | 20 50 18 | 11°22'16 | 18°15 | 5°27 | 15°14 | 27°51 | 19°38 | 28°37 | 9°57 | 21°55 | 1°14 | 18°40 | 19°55 | 26°38 | 0° 5 | F 26 |
| S 27 | 20 54 15 | 12°19'53 | 0♋38 | 7°30 | 16°26 | 28°17 | 19°46 | 28°44 | 10° 0 | 21°56 | 1°15 | 18°35 | 19°52 | 26°44 | 0° 7 | S 27 |
| S 28 | 20 58 11 | 13°17'32 | 12°50 | 9°33 | 17°39 | 28°43 | 19°54 | 28°52 | 10° 3 | 21°58 | 1°17 | 18°29 | 19°49 | 26°51 | 0° 9 | S 28 |
| M29 | 21 2 8 | 14°15'12 | 24°53 | 11°36 | 18°52 | 29°10 | 20° 3 | 28°59 | 10° 6 | 22° 0 | 1°19 | 18°22 | 19°46 | 26°58 | 0°12 | M29 |
| T 30 | 21 6 4 | 15°12'53 | 6♌49 | 13°38 | 20° 4 | 29°37 | 20°11 | 29° 7 | 10° 9 | 22° 2 | 1°20 | 18°17 | 19°42 | 27° 4 | 0°14 | T 30 |
| W31 | 21 10 1 | 16♌10'36 | 18♌40 | 15♌39 | 21♋17 | 0♐ 5 | 20♎20 | 29♌14 | 10♋12 | 22♍ 4 | 1♌22 | 18♓12 | 19♓39 | 27♌11 | 0♊16 | W31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| M 1 | 22n22 | 27n 5 | 4n33 | 20n 8 | 3s23 | 21n25 | 1s18 | 20s29 | 2s51 | 5s31 | 1n15 | 14n25 | 1n31 | 23n34 | 0n20 | 4n41 | 1n19 | 25n17 | 5n18 | 4s 0 | 3s29 | 15n51 | 16n43 | 3s20 |
| T 2 | 22 15 | 24 33 | 3 59 | 20 21 | 3 10 | 21 35 | 1 15 | 20 33 | 2 52 | 5 33 | 1 15 | 14 23 | 1 31 | 23 34 | 0 20 | 4 40 | 1 19 | 25 17 | 5 19 | 4 4 | 3 30 | 15 48 | 16 43 | 3 20 |
| W 3 | 22 7 | 20 57 | 3 15 | 20 34 | 2 57 | 21 44 | 1 12 | 20 37 | 2 52 | 5 35 | 1 14 | 14 20 | 1 31 | 23 34 | 0 20 | 4 40 | 1 19 | 25 16 | 5 19 | 4 7 | 3 31 | 15 45 | 16 44 | 3 21 |
| T 4 | 21 58 | 16 33 | 2 23 | 20 48 | 2 43 | 21 53 | 1 10 | 20 41 | 2 53 | 5 37 | 1 14 | 14 18 | 1 31 | 23 33 | 0 20 | 4 39 | 1 19 | 25 16 | 5 19 | 4 10 | 3 33 | 15 42 | 16 44 | 3 21 |
| F 5 | 21 49 | 11 33 | 1 24 | 21 1 | 2 29 | 22 1 | 1 7 | 20 45 | 2 53 | 5 40 | 1 14 | 14 16 | 1 31 | 23 33 | 0 20 | 4 39 | 1 19 | 25 16 | 5 19 | 4 11 | 3 34 | 15 39 | 16 45 | 3 21 |
| S 6 | 21 40 | 6 9 | 0 22 | 21 15 | 2 15 | 22 9 | 1 5 | 20 49 | 2 53 | 5 42 | 1 14 | 14 14 | 1 31 | 23 33 | 0 20 | 4 38 | 1 19 | 25 15 | 5 19 | 4 12 | 3 35 | 15 36 | 16 45 | 3 22 |
| S 7 | 21 31 | 0 30 | 0s41 | 21 28 | 2 0 | 22 16 | 1 2 | 20 54 | 2 54 | 5 44 | 1 13 | 14 11 | 1 31 | 23 33 | 0 20 | 4 38 | 1 19 | 25 15 | 5 19 | 4 11 | 3 37 | 15 33 | 16 45 | 3 22 |
| M 8 | 21 21 | 5s13 | 1 44 | 21 41 | 1 46 | 22 22 | 0 59 | 20 58 | 2 54 | 5 47 | 1 13 | 14 9 | 1 31 | 23 33 | 0 20 | 4 37 | 1 19 | 25 15 | 5 19 | 4 11 | 3 38 | 15 30 | 16 46 | 3 22 |
| T 9 | 21 11 | 10 52 | 2 43 | 21 52 | 1 31 | 22 28 | 0 56 | 21 3 | 2 54 | 5 49 | 1 13 | 14 7 | 1 31 | 23 32 | 0 20 | 4 36 | 1 19 | 25 14 | 5 19 | 4 11 | 3 39 | 15 27 | 16 46 | 3 22 |
| W10 | 21 0 | 16 13 | 3 36 | 22 3 | 1 17 | 22 34 | 0 54 | 21 8 | 2 55 | 5 52 | 1 13 | 14 4 | 1 31 | 23 32 | 0 20 | 4 36 | 1 19 | 25 14 | 5 19 | 4 11 | 3 40 | 15 24 | 16 47 | 3 23 |
| T 11 | 20 49 | 21 2 | 4 19 | 22 13 | 1 3 | 22 38 | 0 51 | 21 13 | 2 55 | 5 54 | 1 12 | 14 2 | 1 31 | 23 32 | 0 20 | 4 35 | 1 19 | 25 14 | 5 19 | 4 12 | 3 42 | 15 21 | 16 47 | 3 23 |
| F 12 | 20 38 | 24 58 | 4 50 | 22 22 | 0 48 | 22 42 | 0 48 | 21 18 | 2 55 | 5 57 | 1 12 | 13 59 | 1 31 | 23 32 | 0 20 | 4 35 | 1 19 | 25 13 | 5 19 | 4 13 | 3 43 | 15 18 | 16 47 | 3 23 |
| S 13 | 20 26 | 27 36 | 5 6 | 22 28 | 0 35 | 22 46 | 0 45 | 21 23 | 2 55 | 5 59 | 1 12 | 13 57 | 1 31 | 23 31 | 0 20 | 4 34 | 1 19 | 25 13 | 5 19 | 4 15 | 3 44 | 15 15 | 16 48 | 3 24 |
| S 14 | 20 14 | 28 34 | 5 4 | 22 33 | 0 21 | 22 48 | 0 42 | 21 28 | 2 55 | 6 2 | 1 12 | 13 55 | 1 31 | 23 31 | 0 20 | 4 33 | 1 19 | 25 13 | 5 19 | 4 18 | 3 45 | 15 12 | 16 48 | 3 24 |
| M15 | 20 2 | 27 33 | 4 41 | 22 37 | 0 8 | 22 50 | 0 40 | 21 34 | 2 55 | 6 5 | 1 11 | 13 52 | 1 31 | 23 31 | 0 20 | 4 33 | 1 19 | 25 12 | 5 19 | 4 21 | 3 47 | 15 9 | 16 48 | 3 24 |
| T 16 | 19 49 | 24 33 | 4 0 | 22 38 | 0n 5 | 22 52 | 0 37 | 21 39 | 2 56 | 6 8 | 1 11 | 13 50 | 1 31 | 23 31 | 0 20 | 4 32 | 1 19 | 25 12 | 5 19 | 4 24 | 3 48 | 15 6 | 16 49 | 3 24 |
| W17 | 19 36 | 19 49 | 3 1 | 22 36 | 0 17 | 22 53 | 0 34 | 21 44 | 2 56 | 6 11 | 1 11 | 13 47 | 1 31 | 23 31 | 0 20 | 4 31 | 1 19 | 25 12 | 5 19 | 4 26 | 3 49 | 15 3 | 16 49 | 3 25 |
| T 18 | 19 23 | 13 50 | 1 49 | 22 32 | 0 28 | 22 53 | 0 31 | 21 50 | 2 56 | 6 13 | 1 11 | 13 45 | 1 31 | 23 30 | 0 20 | 4 31 | 1 19 | 25 11 | 5 19 | 4 27 | 3 50 | 15 0 | 16 49 | 3 25 |
| F 19 | 19 9 | 7 6 | 0 30 | 22 26 | 0 39 | 22 52 | 0 28 | 21 55 | 2 56 | 6 16 | 1 10 | 13 42 | 1 31 | 23 30 | 0 20 | 4 30 | 1 19 | 25 11 | 5 20 | 4 28 | 3 52 | 14 57 | 16 49 | 3 25 |
| S 20 | 18 55 | 0 7 | 0n49 | 22 17 | 0 49 | 22 51 | 0 25 | 22 1 | 2 56 | 6 19 | 1 10 | 13 40 | 1 31 | 23 30 | 0 20 | 4 29 | 1 19 | 25 11 | 5 20 | 4 28 | 3 53 | 14 54 | 16 50 | 3 26 |
| S 21 | 18 41 | 6n42 | 2 3 | 22 5 | 0 58 | 22 49 | 0 22 | 22 7 | 2 56 | 6 22 | 1 10 | 13 37 | 1 31 | 23 30 | 0 20 | 4 29 | 1 19 | 25 10 | 5 20 | 4 27 | 3 54 | 14 51 | 16 50 | 3 26 |
| M22 | 18 27 | 13 1 | 3 9 | 21 51 | 1 7 | 22 47 | 0 20 | 22 12 | 2 56 | 6 26 | 1 10 | 13 35 | 1 31 | 23 29 | 0 20 | 4 28 | 1 19 | 25 10 | 5 20 | 4 27 | 3 55 | 14 48 | 16 50 | 3 26 |
| T 23 | 18 12 | 18 32 | 4 1 | 21 34 | 1 14 | 22 44 | 0 17 | 22 18 | 2 56 | 6 29 | 1 10 | 13 32 | 1 31 | 23 29 | 0 20 | 4 27 | 1 19 | 25 10 | 5 20 | 4 27 | 3 57 | 14 45 | 16 50 | 3 27 |
| W24 | 17 57 | 23 1 | 4 39 | 21 14 | 1 21 | 22 40 | 0 14 | 22 24 | 2 55 | 6 32 | 1 9 | 13 30 | 1 31 | 23 29 | 0 20 | 4 27 | 1 19 | 25 9 | 5 20 | 4 27 | 3 58 | 14 42 | 16 51 | 3 27 |
| T 25 | 17 41 | 26 16 | 5 3 | 20 52 | 1 27 | 22 35 | 0 11 | 22 29 | 2 55 | 6 35 | 1 9 | 13 27 | 1 31 | 23 29 | 0 20 | 4 26 | 1 19 | 25 9 | 5 20 | 4 28 | 3 59 | 14 39 | 16 51 | 3 27 |
| F 26 | 17 25 | 28 9 | 5 11 | 20 27 | 1 32 | 22 30 | 0 8 | 22 35 | 2 55 | 6 38 | 1 9 | 13 25 | 1 31 | 23 28 | 0 20 | 4 25 | 1 18 | 25 9 | 5 20 | 4 30 | 4 0 | 14 36 | 16 51 | 3 28 |
| S 27 | 17 9 | 28 35 | 5 4 | 20 0 | 1 36 | 22 24 | 0 5 | 22 41 | 2 55 | 6 42 | 1 9 | 13 22 | 1 31 | 23 28 | 0 20 | 4 24 | 1 18 | 25 9 | 5 20 | 4 32 | 4 2 | 14 33 | 16 51 | 3 28 |
| S 28 | 16 53 | 27 36 | 4 43 | 19 31 | 1 40 | 22 18 | 0 3 | 22 47 | 2 55 | 6 45 | 1 8 | 13 19 | 1 31 | 23 28 | 0 20 | 4 24 | 1 18 | 25 8 | 5 20 | 4 34 | 4 3 | 14 30 | 16 51 | 3 28 |
| M29 | 16 36 | 25 19 | 4 10 | 19 0 | 1 43 | 22 11 | 0n 0 | 22 53 | 2 55 | 6 48 | 1 8 | 13 17 | 1 31 | 23 28 | 0 20 | 4 23 | 1 18 | 25 8 | 5 20 | 4 37 | 4 4 | 14 26 | 16 51 | 3 29 |
| T 30 | 16 19 | 21 57 | 3 27 | 18 27 | 1 44 | 22 3 | 0 3 | 22 58 | 2 55 | 6 52 | 1 8 | 13 14 | 1 31 | 23 28 | 0 20 | 4 22 | 1 18 | 25 8 | 5 21 | 4 39 | 4 5 | 14 23 | 16 51 | 3 29 |
| W31 | 16n 2 | 17n43 | 2n34 | 17n52 | 1n46 | 21n55 | 0n 6 | 23s 4 | 2s54 | 6s55 | 1n 8 | 13n12 | 1n31 | 23n27 | 0n20 | 4n21 | 1n18 | 25n 7 | 5n21 | 4s41 | 4s 7 | 14n20 | 16n51 | 3s29 |

Julian Day Number = 2250121.5, Delta T = 06m32s
Ecliptic obliquity = 23°30'48, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'46, Lahiri = 16°09'47 Julian Calendar 1 July 1448 == Greg. Calendar 10 July 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## AUGUST 1448 JC

**00:00 UT**

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 21 13 58 | 17♌ 8'20 | 0♍28 | 17♌39 | 22♋30 | 0♐33 | 20♎29 | 29♌22 | 10♋16 | 22♍ 6 | 1♌24 | 18°R 9 | 19♓36 | 27♌17 | 0♊17 | T 1 |
| F 2 | 21 17 54 | 18° 6'05 | 12°15 | 19°39 | 23°43 | 1° 2 | 20°37 | 29°29 | 10°19 | 22° 8 | 1°26 | 18♓ 8 | 19°33 | 27°24 | 0°19 | F 2 |
| S 3 | 21 21 51 | 19° 3'52 | 24° 4 | 21°37 | 24°56 | 1°30 | 20°46 | 29°36 | 10°22 | 22° 9 | 1°27 | 18°D 8 | 19°30 | 27°31 | 0°21 | S 3 |
| S 4 | 21 25 47 | 20° 1'39 | 5♎57 | 23°35 | 26° 9 | 2° 0 | 20°56 | 29°44 | 10°25 | 22°11 | 1°29 | 18° 9 | 19°26 | 27°37 | 0°23 | S 4 |
| M 5 | 21 29 44 | 20°59'28 | 17°58 | 25°31 | 27°22 | 2°29 | 21° 5 | 29°51 | 10°28 | 22°13 | 1°31 | 18°11 | 19°23 | 27°44 | 0°24 | M 5 |
| T 6 | 21 33 40 | 21°57'19 | 0♏12 | 27°26 | 28°35 | 2°59 | 21°14 | 29°59 | 10°31 | 22°15 | 1°32 | 18°12 | 19°20 | 27°51 | 0°26 | T 6 |
| W 7 | 21 37 37 | 22°55'10 | 12°42 | 29°19 | 29°48 | 3°29 | 21°23 | 0♍ 7 | 10°33 | 22°17 | 1°34 | 18°14 | 19°17 | 27°57 | 0°28 | W 7 |
| T 8 | 21 41 33 | 23°53'03 | 25°33 | 1♍11 | 1♌ 1 | 4° 0 | 21°33 | 0°14 | 10°36 | 22°19 | 1°35 | 18°R14 | 19°14 | 28° 4 | 0°29 | T 8 |
| F 9 | 21 45 30 | 24°50'57 | 8♐49 | 3° 2 | 2°15 | 4°31 | 21°43 | 0°22 | 10°39 | 22°21 | 1°37 | 18°13 | 19°11 | 28°11 | 0°30 | F 9 |
| S 10 | 21 49 26 | 25°48'53 | 22°31 | 4°52 | 3°28 | 5° 2 | 21°52 | 0°29 | 10°42 | 22°23 | 1°39 | 18°12 | 19° 7 | 28°17 | 0°32 | S 10 |
| S 11 | 21 53 23 | 26°46'50 | 6♑41 | 6°40 | 4°41 | 5°34 | 22° 2 | 0°37 | 10°45 | 22°25 | 1°40 | 18° 9 | 19° 4 | 28°24 | 0°33 | S 11 |
| M12 | 21 57 20 | 27°44'48 | 21°17 | 8°27 | 5°55 | 6° 6 | 22°12 | 0°44 | 10°48 | 22°27 | 1°42 | 18° 7 | 19° 1 | 28°31 | 0°34 | M12 |
| T 13 | 22 1 16 | 28°42'48 | 6♒13 | 10°13 | 7° 8 | 6°38 | 22°22 | 0°52 | 10°50 | 22°30 | 1°44 | 18° 4 | 18°58 | 28°37 | 0°35 | T 13 |
| W14 | 22 5 13 | 29°40'49 | 21°23 | 11°58 | 8°22 | 7°10 | 22°32 | 1° 0 | 10°53 | 22°32 | 1°45 | 18° 2 | 18°55 | 28°44 | 0°36 | W14 |
| T 15 | 22 9 9 | 0♍38'52 | 6♓37 | 13°41 | 9°35 | 7°43 | 22°42 | 1° 7 | 10°56 | 22°34 | 1°47 | 18° 1 | 18°51 | 28°51 | 0°37 | T 15 |
| F 16 | 22 13 6 | 1°36'56 | 21°45 | 15°23 | 10°49 | 8°16 | 22°53 | 1°15 | 10°58 | 22°36 | 1°48 | 18°D 1 | 18°48 | 28°57 | 0°38 | F 16 |
| S 17 | 22 17 2 | 2°35'02 | 6♈39 | 17° 3 | 12° 2 | 8°50 | 23° 3 | 1°22 | 11° 1 | 22°38 | 1°50 | 18° 1 | 18°45 | 29° 4 | 0°39 | S 17 |
| S 18 | 22 20 59 | 3°33'10 | 21°11 | 18°43 | 13°16 | 9°23 | 23°13 | 1°30 | 11° 3 | 22°40 | 1°51 | 18° 2 | 18°42 | 29°11 | 0°40 | S 18 |
| M19 | 22 24 55 | 4°31'20 | 5♉17 | 20°21 | 14°30 | 9°57 | 23°24 | 1°37 | 11° 6 | 22°42 | 1°53 | 18° 3 | 18°39 | 29°17 | 0°41 | M19 |
| T 20 | 22 28 52 | 5°29'32 | 18°58 | 21°58 | 15°43 | 10°31 | 23°34 | 1°45 | 11° 8 | 22°44 | 1°54 | 18° 4 | 18°36 | 29°24 | 0°41 | T 20 |
| W21 | 22 32 49 | 6°27'47 | 2♊13 | 23°34 | 16°57 | 11° 6 | 23°45 | 1°53 | 11°11 | 22°46 | 1°56 | 18°R 5 | 18°32 | 29°31 | 0°42 | W21 |
| T 22 | 22 36 45 | 7°26'03 | 15° 4 | 25° 9 | 18°11 | 11°41 | 23°56 | 2° 0 | 11°13 | 22°49 | 1°57 | 18° 5 | 18°29 | 29°37 | 0°43 | T 22 |
| F 23 | 22 40 42 | 8°24'22 | 27°37 | 26°42 | 19°25 | 12°15 | 24° 7 | 2° 8 | 11°16 | 22°51 | 1°59 | 18° 4 | 18°26 | 29°44 | 0°43 | F 23 |
| S 24 | 22 44 38 | 9°22'42 | 9♋53 | 28°15 | 20°39 | 12°51 | 24°18 | 2°15 | 11°18 | 22°53 | 2° 0 | 18° 3 | 18°23 | 29°51 | 0°43 | S 24 |
| S 25 | 22 48 35 | 10°21'05 | 21°57 | 29°46 | 21°53 | 13°26 | 24°29 | 2°23 | 11°20 | 22°55 | 2° 2 | 18° 2 | 18°20 | 29°57 | 0°44 | S 25 |
| M26 | 22 52 31 | 11°19'30 | 3♌52 | 1♎16 | 23° 7 | 14° 2 | 24°40 | 2°30 | 11°22 | 22°57 | 2° 3 | 18° 1 | 18°17 | 0♍ 4 | 0°44 | M26 |
| T 27 | 22 56 28 | 12°17'56 | 15°43 | 2°45 | 24°21 | 14°38 | 24°51 | 2°38 | 11°25 | 23° 0 | 2° 5 | 18° 0 | 18°13 | 0°10 | 0°44 | T 27 |
| W28 | 23 0 24 | 13°16'25 | 27°30 | 4°13 | 25°35 | 15°14 | 25° 2 | 2°45 | 11°27 | 23° 2 | 2° 6 | 18° 0 | 18°10 | 0°17 | 0°44 | W28 |
| T 29 | 23 4 21 | 14°14'56 | 9♍18 | 5°40 | 26°49 | 15°50 | 25°14 | 2°53 | 11°29 | 23° 4 | 2° 7 | 17°59 | 18° 7 | 0°24 | 0°R44 | T 29 |
| F 30 | 23 8 18 | 15°13'28 | 21° 8 | 7° 5 | 28° 3 | 16°27 | 25°25 | 3° 0 | 11°31 | 23° 6 | 2° 9 | 17°D59 | 18° 4 | 0°30 | 0°44 | F 30 |
| S 31 | 23 12 14 | 16♍12'03 | 3♎ 3 | 8♎29 | 29♌18 | 17♐ 4 | 25♎36 | 3♍ 8 | 11♋33 | 23♍ 8 | 2♌10 | 18♓ 0 | 18♓ 1 | 0♍37 | 0♊44 | S 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 15n45 | 12n49 | 1n35 | 17n16 | 1n46 | 21n46 | 0n 8 | 23s10 | 2s54 | 6s59 | 1n 8 | 13n 9 | 1n31 | 23n27 | 0n20 | 4n21 | 1n18 | 25n 7 | 5n21 | 4s42 | 4s 8 | 14n17 | 16n52 | 3s30 |
| F 2 | 15 27 | 7 29 | 0 32 | 16 39 | 1 46 | 21 36 | 0 11 | 23 16 | 2 54 | 7 2 | 1 7 | 13 7 | 1 31 | 23 27 | 0 20 | 4 20 | 1 18 | 25 7 | 5 21 | 4 42 | 4 9 | 14 14 | 16 52 | 3 30 |
| S 3 | 15 9 | 1 52 | 0s33 | 16 0 | 1 45 | 21 26 | 0 14 | 23 21 | 2 54 | 7 6 | 1 7 | 13 4 | 1 31 | 23 27 | 0 20 | 4 19 | 1 18 | 25 7 | 5 21 | 4 42 | 4 10 | 14 11 | 16 52 | 3 30 |
| S 4 | 14 51 | 3s51 | 1 36 | 15 20 | 1 44 | 21 15 | 0 16 | 23 27 | 2 53 | 7 9 | 1 7 | 13 1 | 1 31 | 23 26 | 0 20 | 4 18 | 1 18 | 25 6 | 5 21 | 4 42 | 4 12 | 14 8 | 16 52 | 3 31 |
| M 5 | 14 33 | 9 29 | 2 37 | 14 39 | 1 42 | 21 4 | 0 19 | 23 33 | 2 53 | 7 13 | 1 7 | 12 59 | 1 31 | 23 26 | 0 20 | 4 18 | 1 18 | 25 6 | 5 21 | 4 41 | 4 13 | 14 5 | 16 52 | 3 31 |
| T 6 | 14 14 | 14 52 | 3 31 | 13 57 | 1 39 | 20 52 | 0 22 | 23 38 | 2 53 | 7 17 | 1 7 | 12 56 | 1 31 | 23 26 | 0 20 | 4 17 | 1 18 | 25 6 | 5 21 | 4 41 | 4 14 | 14 2 | 16 52 | 3 31 |
| W 7 | 13 55 | 19 46 | 4 17 | 13 15 | 1 36 | 20 39 | 0 24 | 23 44 | 2 52 | 7 20 | 1 6 | 12 53 | 1 31 | 23 26 | 0 20 | 4 16 | 1 18 | 25 5 | 5 21 | 4 40 | 4 15 | 13 59 | 16 52 | 3 32 |
| T 8 | 13 36 | 23 55 | 4 51 | 12 31 | 1 33 | 20 26 | 0 27 | 23 50 | 2 52 | 7 24 | 1 6 | 12 51 | 1 31 | 23 26 | 0 20 | 4 15 | 1 18 | 25 5 | 5 22 | 4 40 | 4 17 | 13 56 | 16 52 | 3 32 |
| F 9 | 13 17 | 26 57 | 5 11 | 11 48 | 1 29 | 20 12 | 0 29 | 23 55 | 2 52 | 7 28 | 1 6 | 12 48 | 1 31 | 23 25 | 0 20 | 4 14 | 1 18 | 25 5 | 5 22 | 4 40 | 4 18 | 13 53 | 16 51 | 3 32 |
| S 10 | 12 57 | 28 32 | 5 14 | 11 4 | 1 24 | 19 57 | 0 32 | 24 0 | 2 51 | 7 32 | 1 6 | 12 46 | 1 31 | 23 25 | 0 20 | 4 14 | 1 18 | 25 5 | 5 22 | 4 41 | 4 19 | 13 49 | 16 51 | 3 33 |
| S 11 | 12 38 | 28 19 | 4 59 | 10 19 | 1 20 | 19 42 | 0 34 | 24 6 | 2 51 | 7 36 | 1 6 | 12 43 | 1 31 | 23 25 | 0 20 | 4 13 | 1 18 | 25 4 | 5 22 | 4 42 | 4 20 | 13 46 | 16 51 | 3 33 |
| M12 | 12 18 | 26 10 | 4 24 | 9 34 | 1 14 | 19 26 | 0 36 | 24 11 | 2 50 | 7 39 | 1 6 | 12 40 | 1 31 | 23 25 | 0 20 | 4 12 | 1 18 | 25 4 | 5 22 | 4 43 | 4 22 | 13 43 | 16 51 | 3 33 |
| T 13 | 11 57 | 22 11 | 3 31 | 8 50 | 1 9 | 19 10 | 0 39 | 24 16 | 2 50 | 7 43 | 1 5 | 12 38 | 1 32 | 23 25 | 0 21 | 4 11 | 1 18 | 25 4 | 5 22 | 4 44 | 4 23 | 13 40 | 16 51 | 3 34 |
| W14 | 11 37 | 16 39 | 2 22 | 8 4 | 1 3 | 18 53 | 0 41 | 24 22 | 2 49 | 7 47 | 1 5 | 12 35 | 1 32 | 23 24 | 0 21 | 4 10 | 1 18 | 25 4 | 5 22 | 4 45 | 4 24 | 13 37 | 16 51 | 3 34 |
| T 15 | 11 17 | 10 5 | 1 3 | 7 19 | 0 57 | 18 36 | 0 43 | 24 27 | 2 49 | 7 51 | 1 5 | 12 32 | 1 32 | 23 24 | 0 21 | 4 9 | 1 18 | 25 4 | 5 22 | 4 45 | 4 25 | 13 34 | 16 51 | 3 34 |
| F 16 | 10 56 | 2 58 | 0n21 | 6 34 | 0 51 | 18 18 | 0 46 | 24 32 | 2 48 | 7 55 | 1 5 | 12 30 | 1 32 | 23 24 | 0 21 | 4 9 | 1 18 | 25 3 | 5 23 | 4 45 | 4 27 | 13 31 | 16 51 | 3 35 |
| S 17 | 10 35 | 4n12 | 1 41 | 5 49 | 0 45 | 18 0 | 0 48 | 24 36 | 2 48 | 7 59 | 1 5 | 12 27 | 1 32 | 23 24 | 0 21 | 4 8 | 1 18 | 25 3 | 5 23 | 4 45 | 4 28 | 13 28 | 16 51 | 3 35 |
| S 18 | 10 14 | 10 58 | 2 54 | 5 4 | 0 38 | 17 41 | 0 50 | 24 41 | 2 47 | 8 3 | 1 4 | 12 24 | 1 32 | 23 24 | 0 21 | 4 7 | 1 18 | 25 3 | 5 23 | 4 45 | 4 29 | 13 25 | 16 50 | 3 36 |
| M19 | 9 53 | 16 59 | 3 53 | 4 19 | 0 31 | 17 22 | 0 52 | 24 46 | 2 47 | 8 7 | 1 4 | 12 22 | 1 32 | 23 23 | 0 21 | 4 6 | 1 18 | 25 3 | 5 23 | 4 44 | 4 30 | 13 21 | 16 50 | 3 36 |
| T 20 | 9 32 | 21 57 | 4 37 | 3 34 | 0 24 | 17 2 | 0 54 | 24 50 | 2 46 | 8 11 | 1 4 | 12 19 | 1 32 | 23 23 | 0 21 | 4 5 | 1 18 | 25 2 | 5 23 | 4 44 | 4 32 | 13 18 | 16 50 | 3 36 |
| W21 | 9 10 | 25 39 | 5 5 | 2 49 | 0 17 | 16 41 | 0 56 | 24 55 | 2 46 | 8 15 | 1 4 | 12 16 | 1 32 | 23 23 | 0 21 | 4 4 | 1 18 | 25 2 | 5 23 | 4 44 | 4 33 | 13 15 | 16 50 | 3 37 |
| T 22 | 8 48 | 27 55 | 5 17 | 2 5 | 0 10 | 16 21 | 0 58 | 24 59 | 2 45 | 8 20 | 1 4 | 12 14 | 1 32 | 23 23 | 0 21 | 4 3 | 1 18 | 25 2 | 5 23 | 4 44 | 4 34 | 13 12 | 16 49 | 3 37 |
| F 23 | 8 27 | 28 42 | 5 13 | 1 21 | 0 2 | 15 59 | 1 0 | 25 3 | 2 45 | 8 24 | 1 4 | 12 11 | 1 32 | 23 23 | 0 21 | 4 3 | 1 18 | 25 2 | 5 24 | 4 44 | 4 35 | 13 9 | 16 49 | 3 37 |
| S 24 | 8 5 | 28 2 | 4 54 | 0 37 | 0s 5 | 15 38 | 1 2 | 25 7 | 2 44 | 8 28 | 1 3 | 12 8 | 1 32 | 23 23 | 0 21 | 4 2 | 1 18 | 25 2 | 5 24 | 4 44 | 4 37 | 13 6 | 16 49 | 3 38 |
| S 25 | 7 43 | 26 3 | 4 23 | 0s 6 | 0 13 | 15 15 | 1 3 | 25 11 | 2 44 | 8 32 | 1 3 | 12 6 | 1 32 | 23 22 | 0 21 | 4 1 | 1 18 | 25 2 | 5 24 | 4 45 | 4 38 | 13 3 | 16 49 | 3 38 |
| M26 | 7 20 | 22 56 | 3 41 | 0 49 | 0 21 | 14 53 | 1 5 | 25 15 | 2 43 | 8 36 | 1 3 | 12 3 | 1 32 | 23 22 | 0 21 | 4 0 | 1 18 | 25 1 | 5 24 | 4 45 | 4 39 | 13 0 | 16 48 | 3 38 |
| T 27 | 6 58 | 18 53 | 2 50 | 1 32 | 0 29 | 14 30 | 1 7 | 25 19 | 2 42 | 8 40 | 1 3 | 12 0 | 1 33 | 23 22 | 0 21 | 3 59 | 1 18 | 25 1 | 5 24 | 4 45 | 4 40 | 12 56 | 16 48 | 3 39 |
| W28 | 6 36 | 14 7 | 1 51 | 2 14 | 0 37 | 14 6 | 1 8 | 25 22 | 2 42 | 8 45 | 1 3 | 11 58 | 1 33 | 23 22 | 0 21 | 3 58 | 1 18 | 25 1 | 5 24 | 4 46 | 4 41 | 12 53 | 16 48 | 3 39 |
| T 29 | 6 13 | 8 51 | 0 48 | 2 56 | 0 44 | 13 42 | 1 10 | 25 26 | 2 41 | 8 49 | 1 3 | 11 55 | 1 33 | 23 22 | 0 21 | 3 57 | 1 18 | 25 1 | 5 25 | 4 46 | 4 43 | 12 50 | 16 47 | 3 39 |
| F 30 | 5 50 | 3 15 | 0s17 | 3 37 | 0 52 | 13 18 | 1 11 | 25 29 | 2 40 | 8 53 | 1 3 | 11 53 | 1 33 | 23 22 | 0 21 | 3 57 | 1 18 | 25 1 | 5 25 | 4 46 | 4 44 | 12 47 | 16 47 | 3 40 |
| S 31 | 5n28 | 2s29 | 1s23 | 4s18 | 1s 0 | 12n53 | 1n13 | 25s32 | 2s40 | 8s58 | 1n 2 | 11n50 | 1n33 | 23n21 | 0n21 | 3n56 | 1n18 | 25n 1 | 5n25 | 4s46 | 4s45 | 12n44 | 16n47 | 3s40 |

Julian Day Number = 2250152.5, Delta T = 06m32s
Ecliptic obliquity = 23°30'48, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'51, Lahiri = 16°09'51 Julian Calendar 1 Aug. 1448 == Greg. Calendar 10 Aug. 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## SEPTEMBER 1448 JC

**00:00 UT**

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 23 16 11 | 17♍10'39 | 15♎ 4 | 9♎52 | 0♍32 | 17♐41 | 25♎48 | 3♍15 | 11♋35 | 23♍11 | 2♌11 | 18♓ 0 | 17♓57 | 0♍44 | 0°R44 | S 1 |
| M 2 | 23 20 7 | 18° 9'17 | 27°15 | 11°14 | 1°46 | 18°18 | 25°59 | 3°23 | 11°37 | 23°13 | 2°13 | 18°R 0 | 17°54 | 0°50 | 0♊44 | M 2 |
| T 3 | 23 24 4 | 19° 7'57 | 9♏36 | 12°34 | 3° 0 | 18°55 | 26°11 | 3°30 | 11°39 | 23°15 | 2°14 | 18° 0 | 17°51 | 0°57 | 0°43 | T 3 |
| W 4 | 23 28 0 | 20° 6'39 | 22°12 | 13°54 | 4°15 | 19°33 | 26°23 | 3°37 | 11°40 | 23°17 | 2°15 | 17°59 | 17°48 | 1° 4 | 0°43 | W 4 |
| T 5 | 23 31 57 | 21° 5'23 | 5♐ 5 | 15°11 | 5°29 | 20°11 | 26°35 | 3°45 | 11°42 | 23°20 | 2°16 | 17°59 | 17°45 | 1°10 | 0°42 | T 5 |
| F 6 | 23 35 53 | 22° 4'08 | 18°18 | 16°28 | 6°44 | 20°49 | 26°46 | 3°52 | 11°44 | 23°22 | 2°18 | 17°D59 | 17°42 | 1°17 | 0°42 | F 6 |
| S 7 | 23 39 50 | 23° 2'55 | 1♑52 | 17°42 | 7°58 | 21°27 | 26°58 | 3°59 | 11°46 | 23°24 | 2°19 | 17°59 | 17°38 | 1°24 | 0°41 | S 7 |
| S 8 | 23 43 47 | 24° 1'44 | 15°50 | 18°56 | 9°12 | 22° 6 | 27°10 | 4° 7 | 11°47 | 23°26 | 2°20 | 17°59 | 17°35 | 1°30 | 0°41 | S 8 |
| M 9 | 23 47 43 | 25° 0'35 | 0♒10 | 20° 7 | 10°27 | 22°44 | 27°22 | 4°14 | 11°49 | 23°28 | 2°21 | 18° 0 | 17°32 | 1°37 | 0°40 | M 9 |
| T 10 | 23 51 40 | 25°59'27 | 14°50 | 21°17 | 11°42 | 23°23 | 27°34 | 4°21 | 11°51 | 23°31 | 2°22 | 18° 1 | 17°29 | 1°44 | 0°39 | T 10 |
| W11 | 23 55 36 | 26°58'21 | 29°45 | 22°24 | 12°56 | 24° 2 | 27°46 | 4°28 | 11°52 | 23°33 | 2°24 | 18° 1 | 17°26 | 1°50 | 0°38 | W11 |
| T 12 | 23 59 33 | 27°57'17 | 14♓49 | 23°30 | 14°11 | 24°41 | 27°59 | 4°36 | 11°53 | 23°35 | 2°25 | 18°R 2 | 17°23 | 1°57 | 0°37 | T 12 |
| F 13 | 0 3 29 | 28°56'15 | 29°53 | 24°34 | 15°25 | 25°20 | 28°11 | 4°43 | 11°55 | 23°37 | 2°26 | 18° 1 | 17°19 | 2° 4 | 0°36 | F 13 |
| S 14 | 0 7 26 | 29°55'14 | 14♈48 | 25°35 | 16°40 | 26° 0 | 28°23 | 4°50 | 11°56 | 23°40 | 2°27 | 18° 1 | 17°16 | 2°10 | 0°35 | S 14 |
| S 15 | 0 11 22 | 0♎54'16 | 29°26 | 26°33 | 17°55 | 26°39 | 28°35 | 4°57 | 11°58 | 23°42 | 2°28 | 17°59 | 17°13 | 2°17 | 0°34 | S 15 |
| M16 | 0 15 19 | 1°53'21 | 13♉41 | 27°29 | 19° 9 | 27°19 | 28°48 | 5° 4 | 11°59 | 23°44 | 2°29 | 17°58 | 17°10 | 2°23 | 0°33 | M16 |
| T 17 | 0 19 16 | 2°52'27 | 27°31 | 28°22 | 20°24 | 27°59 | 29° 0 | 5°11 | 12° 0 | 23°46 | 2°30 | 17°56 | 17° 7 | 2°30 | 0°31 | T 17 |
| W18 | 0 23 12 | 3°51'36 | 10♊53 | 29°12 | 21°39 | 28°39 | 29°13 | 5°18 | 12° 1 | 23°48 | 2°31 | 17°54 | 17° 3 | 2°37 | 0°30 | W18 |
| T 19 | 0 27 9 | 4°50'48 | 23°49 | 29°58 | 22°54 | 29°19 | 29°25 | 5°25 | 12° 2 | 23°51 | 2°32 | 17°53 | 17° 0 | 2°43 | 0°29 | T 19 |
| F 20 | 0 31 5 | 5°50'01 | 6♋23 | 0♏40 | 24° 9 | 29°59 | 29°38 | 5°32 | 12° 3 | 23°53 | 2°33 | 17°D53 | 16°57 | 2°50 | 0°27 | F 20 |
| S 21 | 0 35 2 | 6°49'17 | 18°38 | 1°18 | 25°23 | 0♑40 | 29°50 | 5°39 | 12° 4 | 23°55 | 2°34 | 17°53 | 16°54 | 2°57 | 0°25 | S 21 |
| S 22 | 0 38 58 | 7°48'36 | 0♌40 | 1°51 | 26°38 | 1°20 | 0♏ 3 | 5°46 | 12° 5 | 23°57 | 2°35 | 17°54 | 16°51 | 3° 3 | 0°24 | S 22 |
| M23 | 0 42 55 | 8°47'56 | 12°32 | 2°19 | 27°53 | 2° 1 | 0°15 | 5°52 | 12° 6 | 23°59 | 2°35 | 17°56 | 16°48 | 3°10 | 0°22 | M23 |
| T 24 | 0 46 51 | 9°47'19 | 24°20 | 2°42 | 29° 8 | 2°42 | 0°28 | 5°59 | 12° 7 | 24° 2 | 2°36 | 17°57 | 16°44 | 3°17 | 0°20 | T 24 |
| W25 | 0 50 48 | 10°46'44 | 6♍ 7 | 2°59 | 0♎23 | 3°23 | 0°41 | 6° 6 | 12° 8 | 24° 4 | 2°37 | 17°59 | 16°41 | 3°23 | 0°19 | W25 |
| T 26 | 0 54 45 | 11°46'12 | 17°58 | 3° 9 | 1°38 | 4° 4 | 0°54 | 6°12 | 12° 9 | 24° 6 | 2°38 | 17°R59 | 16°38 | 3°30 | 0°17 | T 26 |
| F 27 | 0 58 41 | 12°45'41 | 29°54 | 3°R12 | 2°53 | 4°45 | 1° 6 | 6°19 | 12° 9 | 24° 8 | 2°39 | 17°59 | 16°35 | 3°37 | 0°15 | F 27 |
| S 28 | 1 2 38 | 13°45'13 | 11♎58 | 3° 7 | 4° 8 | 5°27 | 1°19 | 6°26 | 12°10 | 24°10 | 2°39 | 17°57 | 16°32 | 3°43 | 0°13 | S 28 |
| S 29 | 1 6 34 | 14°44'46 | 24°13 | 2°55 | 5°23 | 6° 8 | 1°32 | 6°32 | 12°10 | 24°12 | 2°40 | 17°54 | 16°28 | 3°50 | 0°11 | S 29 |
| M30 | 1 10 31 | 15♎44'22 | 6♏39 | 2♏34 | 6♎38 | 6♑50 | 1♏45 | 6♍39 | 12♋11 | 24♍14 | 2♌41 | 17♓49 | 16♓25 | 3♍57 | 0♊ 9 | M30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 5n 5 | 8s11 | 2s25 | 4s58 | 1s 8 | 12n28 | 1n14 | 25s35 | 2s39 | 9s 2 | 1n 2 | 11n47 | 1n33 | 23n21 | 0n21 | 3n55 | 1n18 | 25n 0 | 5n25 | 4s46 | 4s46 | 12n41 | 16n46 | 3s41 |
| M 2 | 4 42 | 13 39 | 3 21 | 5 38 | 1 16 | 12 3 | 1 15 | 25 38 | 2 38 | 9 6 | 1 2 | 11 45 | 1 33 | 23 21 | 0 21 | 3 54 | 1 18 | 25 0 | 5 25 | 4 46 | 4 48 | 12 37 | 16 46 | 3 41 |
| T 3 | 4 19 | 18 40 | 4 9 | 6 16 | 1 24 | 11 37 | 1 17 | 25 40 | 2 38 | 9 11 | 1 2 | 11 42 | 1 33 | 23 21 | 0 21 | 3 53 | 1 18 | 25 0 | 5 25 | 4 46 | 4 49 | 12 34 | 16 45 | 3 41 |
| W 4 | 3 56 | 22 59 | 4 46 | 6 55 | 1 32 | 11 11 | 1 18 | 25 43 | 2 37 | 9 15 | 1 2 | 11 40 | 1 33 | 23 21 | 0 21 | 3 52 | 1 18 | 25 0 | 5 26 | 4 46 | 4 50 | 12 31 | 16 45 | 3 42 |
| T 5 | 3 33 | 26 17 | 5 10 | 7 32 | 1 40 | 10 45 | 1 19 | 25 45 | 2 36 | 9 19 | 1 2 | 11 37 | 1 33 | 23 21 | 0 21 | 3 51 | 1 18 | 25 0 | 5 26 | 4 46 | 4 51 | 12 28 | 16 44 | 3 42 |
| F 6 | 3 9 | 28 16 | 5 18 | 8 9 | 1 48 | 10 18 | 1 20 | 25 47 | 2 36 | 9 24 | 1 2 | 11 34 | 1 34 | 23 21 | 0 21 | 3 50 | 1 18 | 25 0 | 5 26 | 4 46 | 4 53 | 12 25 | 16 44 | 3 42 |
| S 7 | 2 46 | 28 38 | 5 8 | 8 45 | 1 55 | 9 51 | 1 21 | 25 49 | 2 35 | 9 28 | 1 1 | 11 32 | 1 34 | 23 21 | 0 21 | 3 49 | 1 18 | 25 0 | 5 26 | 4 46 | 4 54 | 12 22 | 16 44 | 3 43 |
| S 8 | 2 23 | 27 13 | 4 41 | 9 20 | 2 3 | 9 24 | 1 22 | 25 50 | 2 34 | 9 33 | 1 1 | 11 29 | 1 34 | 23 20 | 0 21 | 3 49 | 1 18 | 25 0 | 5 26 | 4 46 | 4 55 | 12 18 | 16 43 | 3 43 |
| M 9 | 1 59 | 24 1 | 3 56 | 9 54 | 2 10 | 8 57 | 1 23 | 25 52 | 2 33 | 9 37 | 1 1 | 11 27 | 1 34 | 23 20 | 0 21 | 3 48 | 1 18 | 24 59 | 5 27 | 4 46 | 4 56 | 12 15 | 16 43 | 3 43 |
| T 10 | 1 36 | 19 12 | 2 54 | 10 27 | 2 17 | 8 29 | 1 23 | 25 53 | 2 33 | 9 41 | 1 1 | 11 24 | 1 34 | 23 20 | 0 21 | 3 47 | 1 18 | 24 59 | 5 27 | 4 45 | 4 58 | 12 12 | 16 42 | 3 44 |
| W11 | 1 12 | 13 9 | 1 40 | 10 59 | 2 24 | 8 1 | 1 24 | 25 54 | 2 32 | 9 46 | 1 1 | 11 22 | 1 34 | 23 20 | 0 21 | 3 46 | 1 18 | 24 59 | 5 27 | 4 45 | 4 59 | 12 9 | 16 41 | 3 44 |
| T 12 | 0 49 | 6 16 | 0 18 | 11 30 | 2 31 | 7 33 | 1 25 | 25 55 | 2 31 | 9 50 | 1 1 | 11 19 | 1 34 | 23 20 | 0 21 | 3 45 | 1 18 | 24 59 | 5 27 | 4 45 | 5 0 | 12 6 | 16 41 | 3 44 |
| F 13 | 0 25 | 0n57 | 1n 5 | 11 59 | 2 38 | 7 4 | 1 25 | 25 56 | 2 30 | 9 55 | 1 1 | 11 17 | 1 34 | 23 20 | 0 21 | 3 44 | 1 18 | 24 59 | 5 27 | 4 45 | 5 1 | 12 2 | 16 40 | 3 45 |
| S 14 | 0 2 | 8 3 | 2 23 | 12 28 | 2 44 | 6 36 | 1 26 | 25 57 | 2 29 | 9 59 | 1 1 | 11 14 | 1 35 | 23 20 | 0 21 | 3 43 | 1 18 | 24 59 | 5 28 | 4 45 | 5 3 | 11 59 | 16 40 | 3 45 |
| S 15 | 0s22 | 14 35 | 3 30 | 12 55 | 2 50 | 6 7 | 1 26 | 25 57 | 2 29 | 10 4 | 1 1 | 11 12 | 1 35 | 23 20 | 0 21 | 3 42 | 1 18 | 24 59 | 5 28 | 4 46 | 5 4 | 11 56 | 16 39 | 3 46 |
| M16 | 0 45 | 20 9 | 4 22 | 13 21 | 2 56 | 5 38 | 1 27 | 25 57 | 2 28 | 10 8 | 1 0 | 11 9 | 1 35 | 23 20 | 0 21 | 3 42 | 1 18 | 24 59 | 5 28 | 4 46 | 5 5 | 11 53 | 16 39 | 3 46 |
| T 17 | 1 9 | 24 29 | 4 57 | 13 45 | 3 1 | 5 9 | 1 27 | 25 57 | 2 27 | 10 13 | 1 0 | 11 7 | 1 35 | 23 19 | 0 21 | 3 41 | 1 18 | 24 59 | 5 28 | 4 47 | 5 6 | 11 50 | 16 38 | 3 46 |
| W18 | 1 32 | 27 19 | 5 14 | 14 7 | 3 6 | 4 39 | 1 27 | 25 57 | 2 26 | 10 17 | 1 0 | 11 4 | 1 35 | 23 19 | 0 21 | 3 40 | 1 18 | 24 59 | 5 28 | 4 48 | 5 8 | 11 46 | 16 37 | 3 47 |
| T 19 | 1 56 | 28 36 | 5 15 | 14 28 | 3 11 | 4 10 | 1 27 | 25 56 | 2 25 | 10 22 | 1 0 | 11 2 | 1 35 | 23 19 | 0 21 | 3 39 | 1 18 | 24 59 | 5 29 | 4 48 | 5 9 | 11 43 | 16 37 | 3 47 |
| F 20 | 2 19 | 28 21 | 5 0 | 14 46 | 3 14 | 3 40 | 1 27 | 25 55 | 2 25 | 10 26 | 1 0 | 10 59 | 1 35 | 23 19 | 0 21 | 3 38 | 1 18 | 24 59 | 5 29 | 4 48 | 5 10 | 11 40 | 16 36 | 3 47 |
| S 21 | 2 43 | 26 42 | 4 32 | 15 3 | 3 18 | 3 10 | 1 27 | 25 54 | 2 24 | 10 31 | 1 0 | 10 57 | 1 35 | 23 19 | 0 22 | 3 37 | 1 18 | 24 59 | 5 29 | 4 48 | 5 11 | 11 37 | 16 36 | 3 48 |
| S 22 | 3 6 | 23 51 | 3 53 | 15 17 | 3 20 | 2 41 | 1 27 | 25 53 | 2 23 | 10 35 | 1 0 | 10 55 | 1 36 | 23 19 | 0 22 | 3 36 | 1 18 | 24 59 | 5 29 | 4 48 | 5 13 | 11 34 | 16 35 | 3 48 |
| M23 | 3 30 | 20 2 | 3 3 | 15 29 | 3 22 | 2 11 | 1 27 | 25 52 | 2 22 | 10 40 | 1 0 | 10 52 | 1 36 | 23 19 | 0 22 | 3 36 | 1 18 | 24 59 | 5 29 | 4 47 | 5 14 | 11 30 | 16 34 | 3 48 |
| T 24 | 3 53 | 15 27 | 2 7 | 15 38 | 3 23 | 1 41 | 1 27 | 25 50 | 2 21 | 10 45 | 1 0 | 10 50 | 1 36 | 23 19 | 0 22 | 3 35 | 1 18 | 24 59 | 5 30 | 4 46 | 5 15 | 11 27 | 16 34 | 3 49 |
| W25 | 4 17 | 10 18 | 1 5 | 15 43 | 3 23 | 1 10 | 1 27 | 25 48 | 2 20 | 10 49 | 0 59 | 10 47 | 1 36 | 23 19 | 0 22 | 3 34 | 1 18 | 24 59 | 5 30 | 4 46 | 5 16 | 11 24 | 16 33 | 3 49 |
| T 26 | 4 40 | 4 47 | 0 0 | 15 46 | 3 23 | 0 40 | 1 27 | 25 46 | 2 19 | 10 54 | 0 59 | 10 45 | 1 36 | 23 19 | 0 22 | 3 33 | 1 18 | 24 59 | 5 30 | 4 46 | 5 18 | 11 21 | 16 32 | 3 49 |
| F 27 | 5 3 | 0s57 | 1s 5 | 15 45 | 3 20 | 0 10 | 1 26 | 25 44 | 2 18 | 10 58 | 0 59 | 10 43 | 1 36 | 23 19 | 0 22 | 3 32 | 1 18 | 24 59 | 5 30 | 4 46 | 5 19 | 11 18 | 16 31 | 3 50 |
| S 28 | 5 27 | 6 43 | 2 8 | 15 41 | 3 17 | 0s20 | 1 26 | 25 41 | 2 18 | 11 3 | 0 59 | 10 40 | 1 37 | 23 19 | 0 22 | 3 31 | 1 19 | 24 59 | 5 30 | 4 47 | 5 20 | 11 14 | 16 31 | 3 50 |
| S 29 | 5 50 | 12 18 | 3 6 | 15 32 | 3 12 | 0 50 | 1 25 | 25 39 | 2 17 | 11 7 | 0 59 | 10 38 | 1 37 | 23 19 | 0 22 | 3 31 | 1 19 | 24 59 | 5 31 | 4 48 | 5 21 | 11 11 | 16 30 | 3 50 |
| M30 | 6s13 | 17s29 | 3s56 | 15s19 | 3s 6 | 1s21 | 1n25 | 25s36 | 2s16 | 11s12 | 0n59 | 10n36 | 1n37 | 23n19 | 0n22 | 3n30 | 1n19 | 24n59 | 5n31 | 4s50 | 5s22 | 11n 8 | 16n29 | 3s50 |

Julian Day Number = 2250183.5, Delta T = 06m32s
Ecliptic obliquity = 23°30'49, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'55, Lahiri = 16°09'55 Julian Calendar 1 Sept. 1448 == Greg. Calendar 10 Sept. 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## OCTOBER 1448 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T 1 | 1 14 27 | 16♎44'00 | 19♏17 | 2°R 5 | 7♎54 | 7♑32 | 1♏58 | 6♍45 | 12♋11 | 24♍17 | 2♌42 | 17°R44 | 16♓22 | 4♍ 3 | 0°R 6 | T 1 |
| W 2 | 1 18 24 | 17°43'39 | 2♐ 7 | 1♏27 | 9° 9 | 8°14 | 2°11 | 6°51 | 12°12 | 24°19 | 2°42 | 17♓39 | 16°19 | 4°10 | 0♊ 4 | W 2 |
| T 3 | 1 22 20 | 18°43'21 | 15°12 | 0°41 | 10°24 | 8°56 | 2°24 | 6°58 | 12°12 | 24°21 | 2°43 | 17°35 | 16°16 | 4°17 | 0° 2 | T 3 |
| F 4 | 1 26 17 | 19°43'04 | 28°31 | 29♎46 | 11°39 | 9°38 | 2°37 | 7° 4 | 12°13 | 24°23 | 2°43 | 17°32 | 16°13 | 4°23 | 29♉59 | F 4 |
| S 5 | 1 30 14 | 20°42'49 | 12♑ 4 | 28°44 | 12°54 | 10°20 | 2°50 | 7°10 | 12°13 | 24°25 | 2°44 | 17°30 | 16° 9 | 4°30 | 29°57 | S 5 |
| S 6 | 1 34 10 | 21°42'36 | 25°54 | 27°36 | 14° 9 | 11° 2 | 3° 3 | 7°16 | 12°13 | 24°27 | 2°45 | 17°D30 | 16° 6 | 4°36 | 29°55 | S 6 |
| M 7 | 1 38 7 | 22°42'24 | 9♒59 | 26°23 | 15°24 | 11°45 | 3°16 | 7°22 | 12°13 | 24°29 | 2°45 | 17°31 | 16° 3 | 4°43 | 29°52 | M 7 |
| T 8 | 1 42 3 | 23°42'14 | 24°18 | 25° 7 | 16°40 | 12°27 | 3°29 | 7°28 | 12°13 | 24°31 | 2°46 | 17°32 | 16° 0 | 4°50 | 29°50 | T 8 |
| W 9 | 1 46 0 | 24°42'06 | 8♓51 | 23°51 | 17°55 | 13°10 | 3°42 | 7°34 | 12°R13 | 24°33 | 2°46 | 17°33 | 15°57 | 4°56 | 29°47 | W 9 |
| T 10 | 1 49 56 | 25°41'59 | 23°31 | 22°37 | 19°10 | 13°52 | 3°55 | 7°40 | 12°13 | 24°35 | 2°46 | 17°R34 | 15°54 | 5° 3 | 29°45 | T 10 |
| F 11 | 1 53 53 | 26°41'54 | 8♈16 | 21°26 | 20°25 | 14°35 | 4° 8 | 7°46 | 12°13 | 24°37 | 2°47 | 17°32 | 15°50 | 5°10 | 29°42 | F 11 |
| S 12 | 1 57 49 | 27°41'51 | 22°56 | 20°22 | 21°41 | 15°18 | 4°21 | 7°52 | 12°13 | 24°39 | 2°47 | 17°28 | 15°47 | 5°16 | 29°39 | S 12 |
| S 13 | 2 1 46 | 28°41'50 | 7♉26 | 19°26 | 22°56 | 16° 1 | 4°35 | 7°58 | 12°13 | 24°41 | 2°48 | 17°23 | 15°44 | 5°23 | 29°36 | S 13 |
| M14 | 2 5 42 | 29°41'51 | 21°38 | 18°40 | 24°11 | 16°44 | 4°48 | 8° 3 | 12°13 | 24°43 | 2°48 | 17°16 | 15°41 | 5°30 | 29°33 | M14 |
| T 15 | 2 9 39 | 0♏41'54 | 5♊29 | 18° 4 | 25°26 | 17°27 | 5° 1 | 8° 9 | 12°12 | 24°45 | 2°48 | 17° 9 | 15°38 | 5°36 | 29°31 | T 15 |
| W16 | 2 13 36 | 1°41'59 | 18°55 | 17°40 | 26°42 | 18°10 | 5°14 | 8°14 | 12°12 | 24°46 | 2°48 | 17° 2 | 15°34 | 5°43 | 29°28 | W16 |
| T 17 | 2 17 32 | 2°42'06 | 1♋55 | 17°27 | 27°57 | 18°53 | 5°27 | 8°20 | 12°12 | 24°48 | 2°49 | 16°56 | 15°31 | 5°50 | 29°25 | T 17 |
| F 18 | 2 21 29 | 3°42'16 | 14°32 | 17°D26 | 29°12 | 19°37 | 5°41 | 8°25 | 12°11 | 24°50 | 2°49 | 16°52 | 15°28 | 5°56 | 29°22 | F 18 |
| S 19 | 2 25 25 | 4°42'27 | 26°50 | 17°36 | 0♏28 | 20°20 | 5°54 | 8°31 | 12°11 | 24°52 | 2°49 | 16°50 | 15°25 | 6° 3 | 29°19 | S 19 |
| S 20 | 2 29 22 | 5°42'40 | 8♌52 | 17°56 | 1°43 | 21° 3 | 6° 7 | 8°36 | 12°10 | 24°54 | 2°49 | 16°D50 | 15°22 | 6°10 | 29°16 | S 20 |
| M21 | 2 33 18 | 6°42'56 | 20°44 | 18°26 | 2°58 | 21°47 | 6°20 | 8°41 | 12° 9 | 24°56 | 2°49 | 16°51 | 15°19 | 6°16 | 29°13 | M21 |
| T 22 | 2 37 15 | 7°43'13 | 2♍32 | 19° 5 | 4°14 | 22°31 | 6°33 | 8°46 | 12° 9 | 24°57 | 2°50 | 16°52 | 15°15 | 6°23 | 29° 9 | T 22 |
| W23 | 2 41 12 | 8°43'32 | 14°20 | 19°51 | 5°29 | 23°14 | 6°47 | 8°51 | 12° 8 | 24°59 | 2°50 | 16°R53 | 15°12 | 6°29 | 29° 6 | W23 |
| T 24 | 2 45 8 | 9°43'54 | 26°13 | 20°45 | 6°45 | 23°58 | 7° 0 | 8°56 | 12° 7 | 25° 1 | 2°50 | 16°52 | 15° 9 | 6°36 | 29° 3 | T 24 |
| F 25 | 2 49 5 | 10°44'17 | 8♎16 | 21°45 | 8° 0 | 24°42 | 7°13 | 9° 1 | 12° 7 | 25° 3 | 2°R50 | 16°50 | 15° 6 | 6°43 | 29° 0 | F 25 |
| S 26 | 2 53 1 | 11°44'42 | 20°31 | 22°50 | 9°15 | 25°26 | 7°26 | 9° 6 | 12° 6 | 25° 4 | 2°50 | 16°45 | 15° 3 | 6°49 | 28°57 | S 26 |
| S 27 | 2 56 58 | 12°45'09 | 3♏ 0 | 24° 0 | 10°31 | 26°10 | 7°39 | 9°10 | 12° 5 | 25° 6 | 2°50 | 16°37 | 15° 0 | 6°56 | 28°53 | S 27 |
| M28 | 3 0 54 | 13°45'37 | 15°45 | 25°14 | 11°46 | 26°54 | 7°53 | 9°15 | 12° 4 | 25° 7 | 2°50 | 16°28 | 14°56 | 7° 3 | 28°50 | M28 |
| T 29 | 3 4 51 | 14°46'08 | 28°45 | 26°31 | 13° 2 | 27°38 | 8° 6 | 9°20 | 12° 3 | 25° 9 | 2°50 | 16°17 | 14°53 | 7° 9 | 28°47 | T 29 |
| W30 | 3 8 47 | 15°46'40 | 11♐58 | 27°52 | 14°17 | 28°22 | 8°19 | 9°24 | 12° 2 | 25°11 | 2°49 | 16° 7 | 14°50 | 7°16 | 28°43 | W30 |
| T 31 | 3 12 44 | 16♏47'13 | 25♐24 | 29♎14 | 15♏33 | 29♑ 6 | 8♏32 | 9♍28 | 12♋ 1 | 25♍12 | 2♌49 | 15♓57 | 14♓47 | 7♍23 | 28♉40 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| T 1 | 6s36 | 22s 0 | 4s35 | 15s 1 | 2s58 | 1s51 | 1n24 | 25s32 | 2s15 | 11s16 | 0n59 | 10n34 | 1n37 | 23n19 | 0n22 | 3n29 | 1n19 | 24n59 | 5n31 | 4s52 | 5s24 | 11n 5 | 16n28 | 3s51 |
| W 2 | 6 59 | 25 34 | 5 1 | 14 39 | 2 48 | 2 21 | 1 24 | 25 29 | 2 14 | 11 21 | 0 59 | 10 31 | 1 37 | 23 19 | 0 22 | 3 28 | 1 19 | 24 59 | 5 31 | 4 54 | 5 25 | 11 1 | 16 28 | 3 51 |
| T 3 | 7 21 | 27 52 | 5 12 | 14 11 | 2 37 | 2 52 | 1 23 | 25 25 | 2 13 | 11 25 | 0 59 | 10 29 | 1 37 | 23 19 | 0 22 | 3 27 | 1 19 | 24 59 | 5 31 | 4 55 | 5 26 | 10 58 | 16 27 | 3 51 |
| F 4 | 7 44 | 28 37 | 5 7 | 13 39 | 2 23 | 3 22 | 1 22 | 25 21 | 2 12 | 11 30 | 0 59 | 10 27 | 1 38 | 23 19 | 0 22 | 3 27 | 1 19 | 24 59 | 5 32 | 4 56 | 5 27 | 10 55 | 16 26 | 3 52 |
| S 5 | 8 7 | 27 41 | 4 44 | 13 3 | 2 8 | 3 52 | 1 21 | 25 17 | 2 11 | 11 34 | 0 59 | 10 25 | 1 38 | 23 19 | 0 22 | 3 26 | 1 19 | 24 59 | 5 32 | 4 57 | 5 29 | 10 52 | 16 25 | 3 52 |
| S 6 | 8 29 | 25 3 | 4 5 | 12 23 | 1 51 | 4 22 | 1 20 | 25 13 | 2 10 | 11 39 | 0 59 | 10 23 | 1 38 | 23 19 | 0 22 | 3 25 | 1 19 | 24 59 | 5 32 | 4 57 | 5 30 | 10 48 | 16 25 | 3 52 |
| M 7 | 8 52 | 20 52 | 3 11 | 11 39 | 1 33 | 4 52 | 1 19 | 25 8 | 2 9 | 11 43 | 0 58 | 10 21 | 1 38 | 23 19 | 0 22 | 3 24 | 1 19 | 24 59 | 5 32 | 4 57 | 5 31 | 10 45 | 16 24 | 3 53 |
| T 8 | 9 14 | 15 24 | 2 3 | 10 54 | 1 14 | 5 22 | 1 18 | 25 3 | 2 8 | 11 48 | 0 58 | 10 19 | 1 38 | 23 19 | 0 22 | 3 23 | 1 19 | 25 0 | 5 33 | 4 56 | 5 32 | 10 42 | 16 23 | 3 53 |
| W 9 | 9 36 | 9 1 | 0 47 | 10 7 | 0 53 | 5 52 | 1 17 | 24 58 | 2 7 | 11 53 | 0 58 | 10 17 | 1 38 | 23 19 | 0 22 | 3 23 | 1 19 | 25 0 | 5 33 | 4 56 | 5 34 | 10 39 | 16 22 | 3 53 |
| T 10 | 9 58 | 2 5 | 0n32 | 9 20 | 0 33 | 6 21 | 1 16 | 24 53 | 2 6 | 11 57 | 0 58 | 10 15 | 1 39 | 23 19 | 0 22 | 3 22 | 1 19 | 25 0 | 5 33 | 4 56 | 5 35 | 10 35 | 16 21 | 3 53 |
| F 11 | 10 20 | 4n58 | 1 50 | 8 34 | 0 12 | 6 51 | 1 15 | 24 47 | 2 5 | 12 2 | 0 58 | 10 13 | 1 39 | 23 19 | 0 22 | 3 21 | 1 19 | 25 0 | 5 33 | 4 56 | 5 36 | 10 32 | 16 21 | 3 54 |
| S 12 | 10 41 | 11 44 | 3 0 | 7 51 | 0n 8 | 7 20 | 1 13 | 24 41 | 2 4 | 12 6 | 0 58 | 10 11 | 1 39 | 23 19 | 0 22 | 3 20 | 1 19 | 25 0 | 5 33 | 4 58 | 5 37 | 10 29 | 16 20 | 3 54 |
| S 13 | 11 3 | 17 46 | 3 58 | 7 12 | 0 28 | 7 50 | 1 12 | 24 35 | 2 3 | 12 10 | 0 58 | 10 9 | 1 39 | 23 19 | 0 22 | 3 20 | 1 19 | 25 0 | 5 34 | 5 0 | 5 39 | 10 26 | 16 19 | 3 54 |
| M14 | 11 24 | 22 43 | 4 39 | 6 38 | 0 46 | 8 19 | 1 11 | 24 29 | 2 2 | 12 15 | 0 58 | 10 7 | 1 39 | 23 19 | 0 22 | 3 19 | 1 19 | 25 0 | 5 34 | 5 3 | 5 40 | 10 22 | 16 18 | 3 54 |
| T 15 | 11 45 | 26 15 | 5 3 | 6 9 | 1 2 | 8 48 | 1 9 | 24 22 | 2 1 | 12 19 | 0 58 | 10 5 | 1 40 | 23 19 | 0 22 | 3 18 | 1 19 | 25 0 | 5 34 | 5 5 | 5 41 | 10 19 | 16 17 | 3 55 |
| W16 | 12 6 | 28 11 | 5 9 | 5 46 | 1 17 | 9 16 | 1 8 | 24 16 | 2 0 | 12 24 | 0 58 | 10 3 | 1 40 | 23 19 | 0 22 | 3 17 | 1 19 | 25 1 | 5 34 | 5 8 | 5 42 | 10 16 | 16 16 | 3 55 |
| T 17 | 12 27 | 28 29 | 4 59 | 5 28 | 1 31 | 9 45 | 1 6 | 24 9 | 1 59 | 12 28 | 0 58 | 10 1 | 1 40 | 23 19 | 0 22 | 3 17 | 1 19 | 25 1 | 5 35 | 5 10 | 5 43 | 10 13 | 16 15 | 3 55 |
| F 18 | 12 47 | 27 15 | 4 34 | 5 17 | 1 42 | 10 13 | 1 5 | 24 1 | 1 58 | 12 33 | 0 58 | 9 59 | 1 40 | 23 19 | 0 22 | 3 16 | 1 19 | 25 1 | 5 35 | 5 12 | 5 45 | 10 9 | 16 15 | 3 55 |
| S 19 | 13 8 | 24 44 | 3 57 | 5 12 | 1 52 | 10 41 | 1 3 | 23 54 | 1 57 | 12 37 | 0 58 | 9 57 | 1 40 | 23 19 | 0 22 | 3 15 | 1 19 | 25 1 | 5 35 | 5 13 | 5 46 | 10 6 | 16 14 | 3 56 |
| S 20 | 13 28 | 21 10 | 3 11 | 5 13 | 2 0 | 11 9 | 1 1 | 23 46 | 1 56 | 12 42 | 0 58 | 9 55 | 1 41 | 23 20 | 0 22 | 3 15 | 1 19 | 25 1 | 5 35 | 5 13 | 5 47 | 10 3 | 16 13 | 3 56 |
| M21 | 13 48 | 16 47 | 2 16 | 5 18 | 2 6 | 11 36 | 1 0 | 23 38 | 1 55 | 12 46 | 0 58 | 9 54 | 1 41 | 23 20 | 0 22 | 3 14 | 1 19 | 25 1 | 5 35 | 5 13 | 5 48 | 10 0 | 16 12 | 3 56 |
| T 22 | 14 8 | 11 48 | 1 17 | 5 29 | 2 11 | 12 4 | 0 58 | 23 30 | 1 54 | 12 50 | 0 58 | 9 52 | 1 41 | 23 20 | 0 22 | 3 13 | 1 19 | 25 2 | 5 36 | 5 12 | 5 50 | 9 56 | 16 11 | 3 56 |
| W23 | 14 27 | 6 24 | 0 14 | 5 43 | 2 14 | 12 31 | 0 56 | 23 22 | 1 53 | 12 55 | 0 58 | 9 50 | 1 41 | 23 20 | 0 22 | 3 13 | 1 19 | 25 2 | 5 36 | 5 12 | 5 51 | 9 53 | 16 10 | 3 57 |
| T 24 | 14 46 | 0 44 | 0s50 | 6 2 | 2 16 | 12 57 | 0 54 | 23 13 | 1 52 | 12 59 | 0 58 | 9 49 | 1 41 | 23 20 | 0 22 | 3 12 | 1 19 | 25 2 | 5 36 | 5 12 | 5 52 | 9 50 | 16 9 | 3 57 |
| F 25 | 15 6 | 5s 0 | 1 52 | 6 23 | 2 17 | 13 24 | 0 52 | 23 4 | 1 51 | 13 3 | 0 58 | 9 47 | 1 42 | 23 20 | 0 22 | 3 11 | 1 19 | 25 2 | 5 36 | 5 13 | 5 53 | 9 46 | 16 8 | 3 57 |
| S 26 | 15 24 | 10 40 | 2 50 | 6 48 | 2 17 | 13 50 | 0 50 | 22 55 | 1 50 | 13 8 | 0 57 | 9 45 | 1 42 | 23 20 | 0 22 | 3 11 | 1 19 | 25 2 | 5 37 | 5 15 | 5 55 | 9 43 | 16 7 | 3 57 |
| S 27 | 15 43 | 16 1 | 3 41 | 7 14 | 2 15 | 14 15 | 0 48 | 22 46 | 1 49 | 13 12 | 0 57 | 9 44 | 1 42 | 23 20 | 0 23 | 3 10 | 1 19 | 25 3 | 5 37 | 5 18 | 5 56 | 9 40 | 16 7 | 3 57 |
| M28 | 16 1 | 20 47 | 4 22 | 7 43 | 2 13 | 14 41 | 0 46 | 22 36 | 1 48 | 13 16 | 0 57 | 9 42 | 1 42 | 23 20 | 0 23 | 3 10 | 1 19 | 25 3 | 5 37 | 5 21 | 5 57 | 9 37 | 16 6 | 3 58 |
| T 29 | 16 19 | 24 39 | 4 50 | 8 14 | 2 11 | 15 5 | 0 44 | 22 27 | 1 47 | 13 21 | 0 57 | 9 41 | 1 43 | 23 20 | 0 23 | 3 9 | 1 20 | 25 3 | 5 37 | 5 26 | 5 58 | 9 33 | 16 5 | 3 58 |
| W30 | 16 37 | 27 18 | 5 3 | 8 46 | 2 7 | 15 30 | 0 42 | 22 17 | 1 46 | 13 25 | 0 57 | 9 39 | 1 43 | 23 21 | 0 23 | 3 8 | 1 20 | 25 3 | 5 37 | 5 30 | 5 59 | 9 30 | 16 4 | 3 58 |
| T 31 | 16s54 | 28s26 | 5s 0 | 9s19 | 2n 3 | 15s54 | 0n40 | 22s 7 | 1s45 | 13s29 | 0n57 | 9n38 | 1n43 | 23n21 | 0n23 | 3n 8 | 1n20 | 25n 4 | 5n38 | 5s34 | 6s 1 | 9n27 | 16n 3 | 3s58 |

Julian Day Number = 2250213.5, Delta T = 06m32s
Ecliptic obliquity = 23°30'49, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°02'59, Lahiri = 16°10'00 Julian Calendar 1 Oct. 1448 == Greg. Calendar 10 Oct. 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## NOVEMBER 1448 JC

00:00 UT

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 3 16 41 | 17♏47'48 | 9♉ 1 | 0♏39 | 16♏48 | 29♉50 | 8♏45 | 9♍33 | 11°R59 | 25♍14 | 2°R49 | 15°R49 | 14♓44 | 7♍29 | 28°R36 | F 1 |
| S 2 | 3 20 37 | 18°48'24 | 22°46 | 2° 6 | 18° 3 | 0♒34 | 8°58 | 9°37 | 11♋58 | 25°15 | 2♌49 | 15♓43 | 14°40 | 7°36 | 28♉33 | S 2 |
| S 3 | 3 24 34 | 19°49'01 | 6♒39 | 3°33 | 19°19 | 1°19 | 9°12 | 9°41 | 11°57 | 25°17 | 2°49 | 15°40 | 14°37 | 7°43 | 28°30 | S 3 |
| M 4 | 3 28 30 | 20°49'39 | 20°39 | 5° 3 | 20°34 | 2° 3 | 9°25 | 9°45 | 11°56 | 25°18 | 2°48 | 15°D40 | 14°34 | 7°49 | 28°26 | M 4 |
| T 5 | 3 32 27 | 21°50'19 | 4♓45 | 6°33 | 21°50 | 2°47 | 9°38 | 9°49 | 11°54 | 25°20 | 2°48 | 15°40 | 14°31 | 7°56 | 28°23 | T 5 |
| W 6 | 3 36 23 | 22°50'59 | 18°57 | 8° 3 | 23° 5 | 3°32 | 9°51 | 9°53 | 11°53 | 25°21 | 2°48 | 15°R40 | 14°28 | 8° 3 | 28°19 | W 6 |
| T 7 | 3 40 20 | 23°51'41 | 3♈12 | 9°35 | 24°21 | 4°16 | 10° 4 | 9°57 | 11°51 | 25°22 | 2°48 | 15°39 | 14°25 | 8° 9 | 28°16 | T 7 |
| F 8 | 3 44 16 | 24°52'23 | 17°29 | 11° 7 | 25°36 | 5° 1 | 10°17 | 10° 0 | 11°50 | 25°24 | 2°47 | 15°35 | 14°21 | 8°16 | 28°12 | F 8 |
| S 9 | 3 48 13 | 25°53'07 | 1♉44 | 12°39 | 26°52 | 5°45 | 10°30 | 10° 4 | 11°48 | 25°25 | 2°47 | 15°29 | 14°18 | 8°22 | 28° 9 | S 9 |
| S 10 | 3 52 10 | 26°53'53 | 15°52 | 14°12 | 28° 7 | 6°30 | 10°43 | 10° 7 | 11°47 | 25°26 | 2°46 | 15°20 | 14°15 | 8°29 | 28° 5 | S 10 |
| M11 | 3 56 6 | 27°54'39 | 29°47 | 15°45 | 29°22 | 7°14 | 10°56 | 10°11 | 11°45 | 25°28 | 2°46 | 15° 8 | 14°12 | 8°36 | 28° 2 | M11 |
| T 12 | 4 0 3 | 28°55'27 | 13♊26 | 17°18 | 0♐38 | 7°59 | 11° 9 | 10°14 | 11°43 | 25°29 | 2°46 | 14°56 | 14° 9 | 8°42 | 27°58 | T 12 |
| W13 | 4 3 59 | 29°56'16 | 26°46 | 18°52 | 1°53 | 8°44 | 11°22 | 10°17 | 11°42 | 25°30 | 2°45 | 14°44 | 14° 6 | 8°49 | 27°55 | W13 |
| T 14 | 4 7 56 | 0♐57'06 | 9♋43 | 20°25 | 3° 9 | 9°28 | 11°35 | 10°20 | 11°40 | 25°31 | 2°45 | 14°33 | 14° 2 | 8°56 | 27°51 | T 14 |
| F 15 | 4 11 52 | 1°57'58 | 22°20 | 21°59 | 4°24 | 10°13 | 11°47 | 10°23 | 11°38 | 25°32 | 2°44 | 14°24 | 13°59 | 9° 2 | 27°48 | F 15 |
| S 16 | 4 15 49 | 2°58'51 | 4♌39 | 23°32 | 5°40 | 10°58 | 12° 0 | 10°26 | 11°36 | 25°33 | 2°43 | 14°19 | 13°56 | 9° 9 | 27°44 | S 16 |
| S 17 | 4 19 45 | 3°59'45 | 16°42 | 25° 6 | 6°55 | 11°42 | 12°13 | 10°29 | 11°35 | 25°35 | 2°43 | 14°15 | 13°53 | 9°16 | 27°41 | S 17 |
| M18 | 4 23 42 | 5° 0'41 | 28°34 | 26°40 | 8°11 | 12°27 | 12°26 | 10°31 | 11°33 | 25°36 | 2°42 | 14°14 | 13°50 | 9°22 | 27°37 | M18 |
| T 19 | 4 27 39 | 6° 1'37 | 10♍22 | 28°13 | 9°26 | 13°12 | 12°38 | 10°34 | 11°31 | 25°37 | 2°42 | 14°14 | 13°46 | 9°29 | 27°34 | T 19 |
| W20 | 4 31 35 | 7° 2'35 | 22°11 | 29°47 | 10°42 | 13°57 | 12°51 | 10°36 | 11°29 | 25°38 | 2°41 | 14°14 | 13°43 | 9°36 | 27°30 | W20 |
| T 21 | 4 35 32 | 8° 3'35 | 4♎ 5 | 1♐21 | 11°57 | 14°42 | 13° 4 | 10°39 | 11°27 | 25°39 | 2°40 | 14°13 | 13°40 | 9°42 | 27°27 | T 21 |
| F 22 | 4 39 28 | 9° 4'35 | 16°11 | 2°55 | 13°13 | 15°27 | 13°16 | 10°41 | 11°25 | 25°39 | 2°40 | 14° 9 | 13°37 | 9°49 | 27°24 | F 22 |
| S 23 | 4 43 25 | 10° 5'37 | 28°33 | 4°28 | 14°28 | 16°11 | 13°29 | 10°43 | 11°23 | 25°40 | 2°39 | 14° 3 | 13°34 | 9°55 | 27°20 | S 23 |
| S 24 | 4 47 21 | 11° 6'39 | 11♏13 | 6° 2 | 15°44 | 16°56 | 13°41 | 10°45 | 11°20 | 25°41 | 2°38 | 13°54 | 13°31 | 10° 2 | 27°17 | S 24 |
| M25 | 4 51 18 | 12° 7'43 | 24°13 | 7°36 | 16°59 | 17°41 | 13°54 | 10°47 | 11°18 | 25°42 | 2°37 | 13°42 | 13°27 | 10° 9 | 27°13 | M25 |
| T 26 | 4 55 14 | 13° 8'48 | 7♐34 | 9°10 | 18°14 | 18°26 | 14° 6 | 10°49 | 11°16 | 25°43 | 2°37 | 13°29 | 13°24 | 10°15 | 27°10 | T 26 |
| W27 | 4 59 11 | 14° 9'53 | 21°12 | 10°44 | 19°30 | 19°11 | 14°19 | 10°51 | 11°14 | 25°44 | 2°36 | 13°16 | 13°21 | 10°22 | 27° 7 | W27 |
| T 28 | 5 3 8 | 15°10'59 | 5♉ 5 | 12°19 | 20°45 | 19°56 | 14°31 | 10°53 | 11°12 | 25°44 | 2°35 | 13° 3 | 13°18 | 10°29 | 27° 3 | T 28 |
| F 29 | 5 7 4 | 16°12'06 | 19° 8 | 13°53 | 22° 1 | 20°41 | 14°43 | 10°54 | 11° 9 | 25°45 | 2°34 | 12°53 | 13°15 | 10°35 | 27° 0 | F 29 |
| S 30 | 5 11 1 | 17♐13'13 | 3♒17 | 15♐27 | 23♐16 | 21♒26 | 14♏55 | 10♍55 | 11♋ 7 | 25♍46 | 2♌33 | 12♓46 | 13♓12 | 10♍42 | 26♉57 | S 30 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat | |
| F 1 | 17s11 | 27s51 | 4s40 | 9s53 | 1n59 | 16s18 | 0n38 | 21s56 | 1s44 | 13s33 | 0n57 | 9n36 | 1n43 | 23n21 | 0n23 | 3n 7 | 1n20 | 25n 4 | 5n38 | 5s37 | 6s 2 | 9n23 | 16n 2 | 3s58 | F 1 |
| S 2 | 17 28 | 25 35 | 4 3 | 10 27 | 1 54 | 16 41 | 0 36 | 21 46 | 1 43 | 13 38 | 0 57 | 9 35 | 1 43 | 23 21 | 0 23 | 3 7 | 1 20 | 25 4 | 5 38 | 5 39 | 6 3 | 9 20 | 16 1 | 3 58 | S 2 |
| S 3 | 17 45 | 21 46 | 3 12 | 11 2 | 1 49 | 17 4 | 0 34 | 21 35 | 1 41 | 13 42 | 0 57 | 9 34 | 1 44 | 23 21 | 0 23 | 3 6 | 1 20 | 25 4 | 5 38 | 5 40 | 6 4 | 9 17 | 16 0 | 3 59 | S 3 |
| M 4 | 18 1 | 16 41 | 2 9 | 11 38 | 1 43 | 17 26 | 0 32 | 21 24 | 1 40 | 13 46 | 0 57 | 9 32 | 1 44 | 23 21 | 0 23 | 3 6 | 1 20 | 25 5 | 5 39 | 5 40 | 6 6 | 9 13 | 15 59 | 3 59 | M 4 |
| T 5 | 18 17 | 10 42 | 0 58 | 12 13 | 1 37 | 17 48 | 0 29 | 21 12 | 1 39 | 13 50 | 0 57 | 9 31 | 1 44 | 23 21 | 0 23 | 3 5 | 1 20 | 25 5 | 5 39 | 5 40 | 6 7 | 9 10 | 15 59 | 3 59 | T 5 |
| W 6 | 18 33 | 4 7 | 0n17 | 12 48 | 1 31 | 18 10 | 0 27 | 21 1 | 1 38 | 13 54 | 0 57 | 9 30 | 1 44 | 23 22 | 0 23 | 3 4 | 1 20 | 25 5 | 5 39 | 5 40 | 6 8 | 9 7 | 15 58 | 3 59 | W 6 |
| T 7 | 18 48 | 2n41 | 1 32 | 13 24 | 1 24 | 18 31 | 0 25 | 20 49 | 1 37 | 13 59 | 0 57 | 9 29 | 1 45 | 23 22 | 0 23 | 3 4 | 1 20 | 25 6 | 5 39 | 5 40 | 6 9 | 9 4 | 15 57 | 3 59 | T 7 |
| F 8 | 19 3 | 9 21 | 2 40 | 13 59 | 1 18 | 18 51 | 0 23 | 20 38 | 1 36 | 14 3 | 0 57 | 9 28 | 1 45 | 23 22 | 0 23 | 3 3 | 1 20 | 25 6 | 5 39 | 5 42 | 6 11 | 9 0 | 15 56 | 3 59 | F 8 |
| S 9 | 19 17 | 15 32 | 3 39 | 14 33 | 1 11 | 19 11 | 0 20 | 20 26 | 1 35 | 14 7 | 0 57 | 9 26 | 1 45 | 23 22 | 0 23 | 3 3 | 1 20 | 25 6 | 5 40 | 5 44 | 6 12 | 8 57 | 15 55 | 3 59 | S 9 |
| S 10 | 19 31 | 20 50 | 4 23 | 15 7 | 1 4 | 19 31 | 0 18 | 20 13 | 1 34 | 14 11 | 0 57 | 9 25 | 1 45 | 23 22 | 0 23 | 3 3 | 1 20 | 25 6 | 5 40 | 5 48 | 6 13 | 8 54 | 15 54 | 4 0 | S 10 |
| M11 | 19 45 | 24 54 | 4 51 | 15 41 | 0 58 | 19 50 | 0 16 | 20 1 | 1 33 | 14 15 | 0 57 | 9 24 | 1 46 | 23 22 | 0 23 | 3 2 | 1 20 | 25 7 | 5 40 | 5 52 | 6 14 | 8 50 | 15 53 | 4 0 | M11 |
| T 12 | 19 59 | 27 28 | 5 1 | 16 15 | 0 51 | 20 8 | 0 13 | 19 48 | 1 32 | 14 19 | 0 57 | 9 23 | 1 46 | 23 22 | 0 23 | 3 2 | 1 20 | 25 7 | 5 40 | 5 57 | 6 15 | 8 47 | 15 52 | 4 0 | T 12 |
| W13 | 20 12 | 28 23 | 4 55 | 16 47 | 0 44 | 20 26 | 0 11 | 19 36 | 1 31 | 14 23 | 0 57 | 9 22 | 1 46 | 23 23 | 0 23 | 3 1 | 1 20 | 25 7 | 5 40 | 6 2 | 6 17 | 8 44 | 15 51 | 4 0 | W13 |
| T 14 | 20 25 | 27 42 | 4 33 | 17 19 | 0 37 | 20 43 | 0 8 | 19 23 | 1 30 | 14 27 | 0 57 | 9 21 | 1 46 | 23 23 | 0 23 | 3 1 | 1 20 | 25 8 | 5 41 | 6 6 | 6 18 | 8 40 | 15 51 | 4 0 | T 14 |
| F 15 | 20 37 | 25 35 | 3 59 | 17 50 | 0 30 | 20 59 | 0 6 | 19 9 | 1 29 | 14 31 | 0 57 | 9 20 | 1 47 | 23 23 | 0 23 | 3 0 | 1 20 | 25 8 | 5 41 | 6 9 | 6 19 | 8 37 | 15 50 | 4 0 | F 15 |
| S 16 | 20 49 | 22 17 | 3 13 | 18 21 | 0 23 | 21 15 | 0 4 | 18 56 | 1 28 | 14 35 | 0 57 | 9 20 | 1 47 | 23 23 | 0 23 | 3 0 | 1 20 | 25 8 | 5 41 | 6 12 | 6 20 | 8 34 | 15 49 | 4 0 | S 16 |
| S 17 | 21 1 | 18 7 | 2 21 | 18 51 | 0 16 | 21 31 | 0 1 | 18 43 | 1 26 | 14 39 | 0 57 | 9 19 | 1 47 | 23 23 | 0 23 | 3 0 | 1 20 | 25 9 | 5 41 | 6 13 | 6 22 | 8 30 | 15 48 | 4 0 | S 17 |
| M18 | 21 12 | 13 17 | 1 22 | 19 20 | 0 9 | 21 45 | 0s 1 | 18 29 | 1 25 | 14 42 | 0 57 | 9 18 | 1 47 | 23 24 | 0 23 | 2 59 | 1 20 | 25 9 | 5 42 | 6 13 | 6 23 | 8 27 | 15 47 | 4 0 | M18 |
| T 19 | 21 23 | 8 1 | 0 21 | 19 48 | 0 2 | 22 0 | 0 4 | 18 15 | 1 24 | 14 46 | 0 57 | 9 17 | 1 48 | 23 24 | 0 23 | 2 59 | 1 21 | 25 9 | 5 42 | 6 13 | 6 24 | 8 24 | 15 46 | 4 0 | T 19 |
| W20 | 21 33 | 2 28 | 0s42 | 20 15 | 0s 5 | 22 13 | 0 6 | 18 1 | 1 23 | 14 50 | 0 57 | 9 16 | 1 48 | 23 24 | 0 23 | 2 59 | 1 21 | 25 10 | 5 42 | 6 13 | 6 25 | 8 20 | 15 46 | 4 0 | W20 |
| T 21 | 21 43 | 3s12 | 1 43 | 20 41 | 0 12 | 22 26 | 0 8 | 17 47 | 1 22 | 14 54 | 0 57 | 9 16 | 1 48 | 23 24 | 0 23 | 2 58 | 1 21 | 25 10 | 5 42 | 6 14 | 6 26 | 8 17 | 15 45 | 4 1 | T 21 |
| F 22 | 21 53 | 8 51 | 2 40 | 21 6 | 0 19 | 22 38 | 0 11 | 17 33 | 1 21 | 14 58 | 0 57 | 9 15 | 1 48 | 23 24 | 0 23 | 2 58 | 1 21 | 25 10 | 5 42 | 6 15 | 6 28 | 8 14 | 15 44 | 4 1 | F 22 |
| S 23 | 22 2 | 14 17 | 3 31 | 21 31 | 0 25 | 22 49 | 0 13 | 17 18 | 1 20 | 15 1 | 0 57 | 9 15 | 1 49 | 23 25 | 0 23 | 2 58 | 1 21 | 25 11 | 5 43 | 6 18 | 6 29 | 8 10 | 15 43 | 4 1 | S 23 |
| S 24 | 22 11 | 19 15 | 4 13 | 21 54 | 0 32 | 23 0 | 0 15 | 17 4 | 1 19 | 15 5 | 0 57 | 9 14 | 1 49 | 23 25 | 0 23 | 2 57 | 1 21 | 25 11 | 5 43 | 6 21 | 6 30 | 8 7 | 15 42 | 4 1 | S 24 |
| M25 | 22 19 | 23 27 | 4 43 | 22 16 | 0 38 | 23 10 | 0 18 | 16 49 | 1 18 | 15 9 | 0 57 | 9 14 | 1 49 | 23 25 | 0 23 | 2 57 | 1 21 | 25 12 | 5 43 | 6 26 | 6 31 | 8 4 | 15 42 | 4 1 | M25 |
| T 26 | 22 27 | 26 33 | 4 58 | 22 37 | 0 44 | 23 20 | 0 20 | 16 34 | 1 17 | 15 13 | 0 57 | 9 13 | 1 49 | 23 25 | 0 23 | 2 57 | 1 21 | 25 12 | 5 43 | 6 31 | 6 33 | 8 0 | 15 41 | 4 1 | T 26 |
| W27 | 22 34 | 28 10 | 4 57 | 22 57 | 0 50 | 23 28 | 0 23 | 16 19 | 1 16 | 15 16 | 0 57 | 9 13 | 1 50 | 23 25 | 0 23 | 2 56 | 1 21 | 25 12 | 5 43 | 6 36 | 6 34 | 7 57 | 15 40 | 4 1 | W27 |
| T 28 | 22 41 | 28 3 | 4 38 | 23 16 | 0 56 | 23 36 | 0 25 | 16 4 | 1 15 | 15 20 | 0 57 | 9 12 | 1 50 | 23 26 | 0 23 | 2 56 | 1 21 | 25 13 | 5 44 | 6 41 | 6 35 | 7 54 | 15 39 | 4 1 | T 28 |
| F 29 | 22 48 | 26 9 | 4 3 | 23 34 | 1 2 | 23 43 | 0 27 | 15 48 | 1 14 | 15 23 | 0 57 | 9 12 | 1 50 | 23 26 | 0 23 | 2 56 | 1 21 | 25 13 | 5 44 | 6 45 | 6 36 | 7 50 | 15 38 | 4 1 | F 29 |
| S 30 | 22s54 | 22s35 | 3s12 | 23s50 | 1s 8 | 23s50 | 0s29 | 15s33 | 1s12 | 15s27 | 0n57 | 9n12 | 1n51 | 23n26 | 0n23 | 2n56 | 1n21 | 25n14 | 5n44 | 6s47 | 6s37 | 7n47 | 15n38 | 4s 1 | S 30 |

Julian Day Number = 2250244.5, Delta T = 06m31s
Ecliptic obliquity = 23°30'48, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°03'03, Lahiri = 16°10'04 Julian Calendar 1 Nov. 1448 == Greg. Calendar 10 Nov. 1448

# ASTRODIENST EPHEMERIS for the year 1448
# geocentric

## DECEMBER 1448 JC

**00:00 UT**

| Day | Sid.t | ☉ | ☽ | ☿ | ♀ | ♂ | ♃ | ♄ | ♅ | ♆ | ♇ | ☊ | ☊ | ⚸ | ⚷ | Day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S 1 | 5 14 57 | 18♐14'21 | 17♒28 | 17♐ 2 | 24♐32 | 22♒11 | 15♏ 8 | 10♑57 | 11°R 5 | 25♑46 | 2°R32 | 12°R42 | 13♓ 8 | 10♑49 | 26°R54 | S 1 |
| M 2 | 5 18 54 | 19°15'28 | 1♓37 | 18°37 | 25°47 | 22°56 | 15°20 | 10°58 | 11♋ 2 | 25°47 | 2♌31 | 12♓40 | 13° 5 | 10°55 | 26♉51 | M 2 |
| T 3 | 5 22 50 | 20°16'36 | 15°44 | 20°11 | 27° 3 | 23°41 | 15°32 | 10°59 | 11° 0 | 25°47 | 2°30 | 12°40 | 13° 2 | 11° 2 | 26°47 | T 3 |
| W 4 | 5 26 47 | 21°17'44 | 29°47 | 21°46 | 28°18 | 24°26 | 15°44 | 11° 0 | 10°58 | 25°48 | 2°29 | 12°40 | 12°59 | 11° 9 | 26°44 | W 4 |
| T 5 | 5 30 43 | 22°18'52 | 13♈46 | 23°22 | 29°34 | 25°11 | 15°55 | 11° 1 | 10°55 | 25°49 | 2°28 | 12°38 | 12°56 | 11°15 | 26°41 | T 5 |
| F 6 | 5 34 40 | 23°20'01 | 27°40 | 24°57 | 0♉49 | 25°56 | 16° 7 | 11° 2 | 10°53 | 25°49 | 2°27 | 12°34 | 12°52 | 11°22 | 26°38 | F 6 |
| S 7 | 5 38 37 | 24°21'09 | 11♉28 | 26°33 | 2° 4 | 26°41 | 16°19 | 11° 2 | 10°50 | 25°49 | 2°26 | 12°28 | 12°49 | 11°29 | 26°35 | S 7 |
| S 8 | 5 42 33 | 25°22'18 | 25° 8 | 28° 9 | 3°20 | 27°26 | 16°31 | 11° 3 | 10°48 | 25°50 | 2°25 | 12°18 | 12°46 | 11°35 | 26°32 | S 8 |
| M 9 | 5 46 30 | 26°23'27 | 8♊38 | 29°45 | 4°35 | 28°11 | 16°42 | 11° 3 | 10°45 | 25°50 | 2°24 | 12° 6 | 12°43 | 11°42 | 26°29 | M 9 |
| T 10 | 5 50 26 | 27°24'36 | 21°55 | 1♉21 | 5°51 | 28°56 | 16°54 | 11° 4 | 10°43 | 25°50 | 2°23 | 11°53 | 12°40 | 11°48 | 26°26 | T 10 |
| W11 | 5 54 23 | 28°25'45 | 4♋58 | 2°58 | 7° 6 | 29°41 | 17° 6 | 11° 4 | 10°40 | 25°51 | 2°22 | 11°40 | 12°37 | 11°55 | 26°24 | W11 |
| T 12 | 5 58 19 | 29°26'55 | 17°44 | 4°35 | 8°21 | 0♓26 | 17°17 | 11°R 4 | 10°38 | 25°51 | 2°21 | 11°29 | 12°33 | 12° 2 | 26°21 | T 12 |
| F 13 | 6 2 16 | 0♉28'05 | 0♌14 | 6°12 | 9°37 | 1°11 | 17°28 | 11° 4 | 10°35 | 25°51 | 2°20 | 11°20 | 12°30 | 12° 8 | 26°18 | F 13 |
| S 14 | 6 6 13 | 1°29'14 | 12°28 | 7°49 | 10°52 | 1°56 | 17°40 | 11° 4 | 10°33 | 25°51 | 2°19 | 11°13 | 12°27 | 12°15 | 26°15 | S 14 |
| S 15 | 6 10 9 | 2°30'25 | 24°29 | 9°27 | 12° 8 | 2°41 | 17°51 | 11° 4 | 10°30 | 25°52 | 2°18 | 11° 9 | 12°24 | 12°22 | 26°13 | S 15 |
| M16 | 6 14 6 | 3°31'35 | 6♍21 | 11° 5 | 13°23 | 3°26 | 18° 2 | 11° 3 | 10°28 | 25°52 | 2°16 | 11°D 8 | 12°21 | 12°28 | 26°10 | M16 |
| T 17 | 6 18 2 | 4°32'45 | 18° 9 | 12°43 | 14°38 | 4°11 | 18°13 | 11° 3 | 10°25 | 25°52 | 2°15 | 11° 8 | 12°18 | 12°35 | 26° 8 | T 17 |
| W18 | 6 21 59 | 5°33'56 | 29°57 | 14°22 | 15°54 | 4°56 | 18°24 | 11° 2 | 10°22 | 25°52 | 2°14 | 11°R 8 | 12°14 | 12°42 | 26° 5 | W18 |
| T 19 | 6 25 55 | 6°35'07 | 11♎51 | 16° 0 | 17° 9 | 5°41 | 18°35 | 11° 2 | 10°20 | 25°R52 | 2°13 | 11° 8 | 12°11 | 12°48 | 26° 3 | T 19 |
| F 20 | 6 29 52 | 7°36'18 | 23°56 | 17°39 | 18°24 | 6°25 | 18°46 | 11° 1 | 10°17 | 25°52 | 2°12 | 11° 7 | 12° 8 | 12°55 | 26° 0 | F 20 |
| S 21 | 6 33 48 | 8°37'29 | 6♏18 | 19°17 | 19°40 | 7°10 | 18°56 | 11° 0 | 10°15 | 25°52 | 2°10 | 11° 3 | 12° 5 | 13° 2 | 25°58 | S 21 |
| S 22 | 6 37 45 | 9°38'41 | 19° 1 | 20°56 | 20°55 | 7°55 | 19° 7 | 10°59 | 10°12 | 25°52 | 2° 9 | 10°57 | 12° 2 | 13° 8 | 25°56 | S 22 |
| M23 | 6 41 42 | 10°39'52 | 2♐ 8 | 22°35 | 22°10 | 8°40 | 19°18 | 10°58 | 10° 9 | 25°52 | 2° 8 | 10°48 | 11°58 | 13°15 | 25°54 | M23 |
| T 24 | 6 45 38 | 11°41'04 | 15°40 | 24°13 | 23°26 | 9°25 | 19°28 | 10°57 | 10° 7 | 25°51 | 2° 7 | 10°39 | 11°55 | 13°22 | 25°51 | T 24 |
| W25 | 6 49 35 | 12°42'15 | 29°35 | 25°51 | 24°41 | 10°10 | 19°38 | 10°55 | 10° 4 | 25°51 | 2° 5 | 10°28 | 11°52 | 13°28 | 25°49 | W25 |
| T 26 | 6 53 31 | 13°43'26 | 13♉50 | 27°29 | 25°56 | 10°55 | 19°49 | 10°54 | 10° 2 | 25°51 | 2° 4 | 10°19 | 11°49 | 13°35 | 25°47 | T 26 |
| F 27 | 6 57 28 | 14°44'36 | 28°19 | 29° 5 | 27°12 | 11°40 | 19°59 | 10°52 | 9°59 | 25°51 | 2° 3 | 10°11 | 11°46 | 13°41 | 25°45 | F 27 |
| S 28 | 7 1 24 | 15°45'46 | 12♒56 | 0♒41 | 28°27 | 12°24 | 20° 9 | 10°51 | 9°56 | 25°50 | 2° 1 | 10° 5 | 11°43 | 13°48 | 25°44 | S 28 |
| S 29 | 7 5 21 | 16°46'55 | 27°33 | 2°16 | 29°42 | 13° 9 | 20°19 | 10°49 | 9°54 | 25°50 | 2° 0 | 10° 2 | 11°39 | 13°55 | 25°42 | S 29 |
| M30 | 7 9 17 | 17°48'04 | 12♓ 5 | 3°50 | 0♒57 | 13°54 | 20°29 | 10°47 | 9°51 | 25°50 | 1°59 | 10°D 2 | 11°36 | 14° 1 | 25°40 | M30 |
| T 31 | 7 13 14 | 18♉49'12 | 26♓27 | 5♒21 | 2♒13 | 14♓39 | 20♏38 | 10♑45 | 9♋49 | 25♑49 | 1♌57 | 10♓ 2 | 11♓33 | 14♑ 8 | 25♉38 | T 31 |

| Day | ☉ | ☽ | | ☿ | | ♀ | | ♂ | | ♃ | | ♄ | | ♅ | | ♆ | | ♇ | | ☊ | ☊ | ⚸ | ⚷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | decl | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | lat | decl | decl | decl | decl | lat |
| S 1 | 22s59 | 17s42 | 2s 9 | 24s 5 | 1s13 | 23s56 | 0s32 | 15s17 | 1s11 | 15s30 | 0n57 | 9n11 | 1n51 | 23n26 | 0n23 | 2n56 | 1n21 | 25n14 | 5n44 | 6s49 | 6s39 | 7n44 | 15n37 | 4s 1 |
| M 2 | 23 5 | 11 50 | 0 58 | 24 19 | 1 18 | 24 1 | 0 34 | 15 1 | 1 10 | 15 34 | 0 57 | 9 11 | 1 51 | 23 26 | 0 23 | 2 55 | 1 21 | 25 14 | 5 44 | 6 50 | 6 40 | 7 40 | 15 36 | 4 1 |
| T 3 | 23 9 | 5 24 | 0n16 | 24 32 | 1 23 | 24 5 | 0 36 | 14 45 | 1 9 | 15 37 | 0 57 | 9 11 | 1 51 | 23 27 | 0 23 | 2 55 | 1 21 | 25 15 | 5 44 | 6 50 | 6 41 | 7 37 | 15 36 | 4 1 |
| W 4 | 23 14 | 1n17 | 1 29 | 24 44 | 1 28 | 24 9 | 0 38 | 14 29 | 1 8 | 15 41 | 0 57 | 9 11 | 1 52 | 23 27 | 0 23 | 2 55 | 1 21 | 25 15 | 5 45 | 6 50 | 6 42 | 7 34 | 15 35 | 4 1 |
| T 5 | 23 17 | 7 51 | 2 37 | 24 54 | 1 33 | 24 11 | 0 41 | 14 13 | 1 7 | 15 44 | 0 58 | 9 11 | 1 52 | 23 27 | 0 23 | 2 55 | 1 21 | 25 16 | 5 45 | 6 50 | 6 44 | 7 30 | 15 34 | 4 1 |
| F 6 | 23 21 | 14 0 | 3 34 | 25 2 | 1 37 | 24 13 | 0 43 | 13 57 | 1 6 | 15 48 | 0 58 | 9 11 | 1 52 | 23 27 | 0 23 | 2 55 | 1 21 | 25 16 | 5 45 | 6 52 | 6 45 | 7 27 | 15 34 | 4 1 |
| S 7 | 23 24 | 19 25 | 4 19 | 25 10 | 1 42 | 24 15 | 0 45 | 13 41 | 1 5 | 15 51 | 0 58 | 9 11 | 1 52 | 23 27 | 0 23 | 2 55 | 1 21 | 25 16 | 5 45 | 6 54 | 6 46 | 7 24 | 15 33 | 4 1 |
| S 8 | 23 26 | 23 45 | 4 48 | 25 16 | 1 46 | 24 15 | 0 47 | 13 24 | 1 4 | 15 54 | 0 58 | 9 11 | 1 53 | 23 28 | 0 23 | 2 55 | 1 22 | 25 17 | 5 45 | 6 58 | 6 47 | 7 20 | 15 32 | 4 1 |
| M 9 | 23 28 | 26 45 | 5 0 | 25 20 | 1 49 | 24 15 | 0 49 | 13 7 | 1 3 | 15 58 | 0 58 | 9 11 | 1 53 | 23 28 | 0 23 | 2 54 | 1 22 | 25 17 | 5 46 | 7 3 | 6 48 | 7 17 | 15 32 | 4 1 |
| T 10 | 23 29 | 28 12 | 4 56 | 25 23 | 1 53 | 24 14 | 0 51 | 12 51 | 1 2 | 16 1 | 0 58 | 9 11 | 1 53 | 23 28 | 0 23 | 2 54 | 1 22 | 25 18 | 5 46 | 7 7 | 6 50 | 7 14 | 15 31 | 4 1 |
| W11 | 23 30 | 28 2 | 4 37 | 25 25 | 1 56 | 24 12 | 0 53 | 12 34 | 1 1 | 16 4 | 0 58 | 9 11 | 1 53 | 23 28 | 0 23 | 2 54 | 1 22 | 25 18 | 5 46 | 7 12 | 6 51 | 7 10 | 15 30 | 4 0 |
| T 12 | 23 31 | 26 21 | 4 4 | 25 25 | 1 59 | 24 10 | 0 55 | 12 17 | 1 0 | 16 7 | 0 58 | 9 11 | 1 54 | 23 29 | 0 24 | 2 54 | 1 22 | 25 18 | 5 46 | 7 17 | 6 52 | 7 7 | 15 30 | 4 0 |
| F 13 | 23 31 | 23 24 | 3 19 | 25 23 | 2 1 | 24 7 | 0 57 | 12 0 | 0 59 | 16 10 | 0 58 | 9 12 | 1 54 | 23 29 | 0 24 | 2 54 | 1 22 | 25 19 | 5 46 | 7 20 | 6 53 | 7 4 | 15 29 | 4 0 |
| S 14 | 23 30 | 19 27 | 2 26 | 25 20 | 2 3 | 24 3 | 0 59 | 11 43 | 0 58 | 16 13 | 0 58 | 9 12 | 1 54 | 23 29 | 0 24 | 2 54 | 1 22 | 25 19 | 5 46 | 7 23 | 6 55 | 7 0 | 15 29 | 4 0 |
| S 15 | 23 29 | 14 46 | 1 27 | 25 15 | 2 5 | 23 58 | 1 1 | 11 26 | 0 57 | 16 17 | 0 58 | 9 12 | 1 55 | 23 29 | 0 24 | 2 54 | 1 22 | 25 20 | 5 46 | 7 24 | 6 56 | 6 57 | 15 28 | 4 0 |
| M16 | 23 28 | 9 36 | 0 25 | 25 9 | 2 6 | 23 52 | 1 3 | 11 9 | 0 56 | 16 20 | 0 58 | 9 13 | 1 55 | 23 29 | 0 24 | 2 54 | 1 22 | 25 20 | 5 47 | 7 25 | 6 57 | 6 53 | 15 28 | 4 0 |
| T 17 | 23 26 | 4 8 | 0s37 | 25 1 | 2 7 | 23 46 | 1 4 | 10 51 | 0 55 | 16 23 | 0 58 | 9 13 | 1 55 | 23 30 | 0 24 | 2 54 | 1 22 | 25 21 | 5 47 | 7 25 | 6 58 | 6 50 | 15 27 | 4 0 |
| W18 | 23 24 | 1s29 | 1 39 | 24 51 | 2 8 | 23 39 | 1 6 | 10 34 | 0 53 | 16 26 | 0 58 | 9 14 | 1 55 | 23 30 | 0 24 | 2 54 | 1 22 | 25 21 | 5 47 | 7 25 | 6 59 | 6 47 | 15 27 | 4 0 |
| T 19 | 23 21 | 7 6 | 2 36 | 24 40 | 2 8 | 23 32 | 1 8 | 10 16 | 0 52 | 16 29 | 0 58 | 9 14 | 1 56 | 23 30 | 0 24 | 2 54 | 1 22 | 25 21 | 5 47 | 7 25 | 7 1 | 6 43 | 15 26 | 4 0 |
| F 20 | 23 18 | 12 32 | 3 28 | 24 27 | 2 8 | 23 23 | 1 9 | 9 59 | 0 51 | 16 31 | 0 58 | 9 15 | 1 56 | 23 30 | 0 24 | 2 54 | 1 22 | 25 22 | 5 47 | 7 25 | 7 2 | 6 40 | 15 26 | 4 0 |
| S 21 | 23 14 | 17 36 | 4 11 | 24 13 | 2 7 | 23 14 | 1 11 | 9 41 | 0 50 | 16 34 | 0 58 | 9 15 | 1 56 | 23 31 | 0 24 | 2 54 | 1 22 | 25 22 | 5 47 | 7 27 | 7 3 | 6 37 | 15 25 | 4 0 |
| S 22 | 23 10 | 22 3 | 4 43 | 23 57 | 2 6 | 23 4 | 1 12 | 9 23 | 0 49 | 16 37 | 0 58 | 9 16 | 1 56 | 23 31 | 0 24 | 2 54 | 1 22 | 25 23 | 5 47 | 7 29 | 7 4 | 6 33 | 15 25 | 4 0 |
| M23 | 23 5 | 25 34 | 5 1 | 23 39 | 2 4 | 22 54 | 1 14 | 9 5 | 0 48 | 16 40 | 0 58 | 9 16 | 1 57 | 23 31 | 0 24 | 2 55 | 1 22 | 25 23 | 5 48 | 7 32 | 7 5 | 6 30 | 15 25 | 3 59 |
| T 24 | 23 0 | 27 46 | 5 3 | 23 20 | 2 1 | 22 43 | 1 15 | 8 48 | 0 47 | 16 43 | 0 58 | 9 17 | 1 57 | 23 31 | 0 24 | 2 55 | 1 22 | 25 24 | 5 48 | 7 36 | 7 7 | 6 26 | 15 24 | 3 59 |
| W25 | 22 54 | 28 19 | 4 48 | 22 59 | 1 58 | 22 31 | 1 17 | 8 30 | 0 46 | 16 45 | 0 59 | 9 18 | 1 57 | 23 31 | 0 24 | 2 55 | 1 22 | 25 24 | 5 48 | 7 40 | 7 8 | 6 23 | 15 24 | 3 59 |
| T 26 | 22 48 | 27 1 | 4 15 | 22 36 | 1 55 | 22 18 | 1 18 | 8 12 | 0 45 | 16 48 | 0 59 | 9 19 | 1 57 | 23 32 | 0 24 | 2 55 | 1 22 | 25 24 | 5 48 | 7 44 | 7 9 | 6 20 | 15 23 | 3 59 |
| F 27 | 22 42 | 23 54 | 3 24 | 22 12 | 1 50 | 22 5 | 1 19 | 7 54 | 0 44 | 16 51 | 0 59 | 9 20 | 1 58 | 23 32 | 0 24 | 2 55 | 1 23 | 25 25 | 5 48 | 7 47 | 7 10 | 6 16 | 15 23 | 3 59 |
| S 28 | 22 35 | 19 13 | 2 20 | 21 46 | 1 45 | 21 51 | 1 20 | 7 36 | 0 43 | 16 53 | 0 59 | 9 20 | 1 58 | 23 32 | 0 24 | 2 55 | 1 23 | 25 25 | 5 48 | 7 49 | 7 12 | 6 13 | 15 23 | 3 59 |
| S 29 | 22 27 | 13 24 | 1 7 | 21 20 | 1 39 | 21 36 | 1 22 | 7 17 | 0 42 | 16 56 | 0 59 | 9 21 | 1 58 | 23 32 | 0 24 | 2 55 | 1 23 | 25 26 | 5 48 | 7 50 | 7 13 | 6 10 | 15 22 | 3 59 |
| M30 | 22 19 | 6 53 | 0n11 | 20 51 | 1 33 | 21 21 | 1 23 | 6 59 | 0 41 | 16 59 | 0 59 | 9 22 | 1 58 | 23 32 | 0 24 | 2 56 | 1 23 | 25 26 | 5 49 | 7 50 | 7 14 | 6 6 | 15 22 | 3 59 |
| T 31 | 22s11 | 0s 5 | 1n27 | 20s22 | 1s25 | 21s 5 | 1s24 | 6s41 | 0s40 | 17s 1 | 0n59 | 9n23 | 1n59 | 23n33 | 0n24 | 2n56 | 1n23 | 25n26 | 5n49 | 7s50 | 7s15 | 6n 3 | 15n22 | 3s59 |

Julian Day Number = 2250274.5, Delta T = 06m31s
Ecliptic obliquity = 23°30'47, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 17°03'08, Lahiri = 16°10'08 Julian Calendar 1 Dec. 1448 == Greg. Calendar 10 Dec. 1448